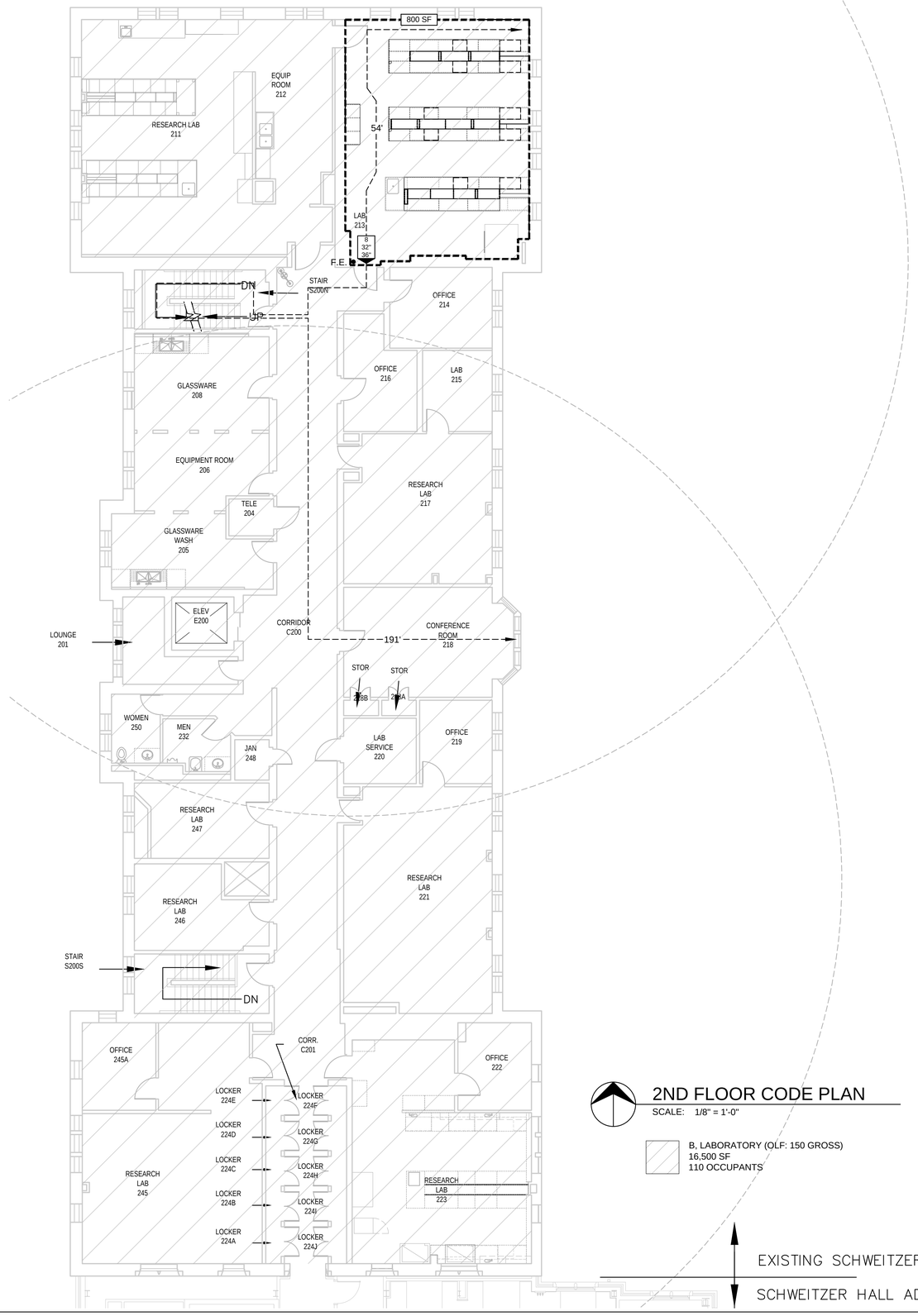

2ND FLOOR CODE PLAN

SCALE: 1/8" = 1'-0"

B, LABORATORY (OLF: 150 GROSS)
16,500 SF
110 OCCUPANTS

EXISTING SCHWEITZER HALL

SCHWEITZER HALL ADDITION

CP211261 SCHWEITZER HALL LAB 213 RENOVATION

IEBC 2018 ALTERATION LEVEL II
ALL NEW CONSTRUCTION WITHIN THE WORK AREA WILL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE

REFERENCE:
RECORD DRAWINGS - MU PROJECT NUMBER CP050371 SHEET A001.

PROJECT SCOPE DESCRIPTION:
THE PROJECT WORK AREA ENCOMPASSES ROUGHLY 800 SQUARE FEET ON THE SECOND FLOOR SCHWEITZER HALL BUILDING. RENOVATIONS INCLUDE FLOORING, LAB BENCH MODIFICATIONS, CEILINGS, LIGHTING, HVAC, AND FIRE SPRINKLERS, PLUMBING, FIRE ALARM, AND ELECTRICAL SYSTEMS FOR LABORATORY 213.

EXISTING BUILDING & FLOOR DESCRIPTION:
SCHWEITZER HALL IS A THREE-STORY HIGHER EDUCATION USE BUILDING WITH THE SCHWEITZER HALL ADDITION ATTACHED. THE TOTAL FLOOR AREA IS APPROXIMATELY 52,739 SQUARE FEET. SCHWEITZER HALL AND THE ADDITION ARE CONSIDERED A SINGLE BUILDING FROM A CODE STANDPOINT. THE CURRENT OCCUPANCY CLASSIFICATION OF B FOR THE BUILDING WILL REMAIN UNCHANGED AFTER THE WORK IS COMPLETE. THE TOTAL FLOOR AREA OF THE SECOND LEVEL FLOOR IS APPROXIMATELY 16,500 SQUARE FEET.

CODE APPROACH:
EXISTING BUILDING CONDITIONS: THE STRUCTURAL SYSTEM OF THE BUILDING CONSISTS OF LOAD-BEARING BRICK MASONRY WALLS, CONCRETE FLOOR AND SUPPLEMENTAL STRUCTURAL STEEL BEAMS. THE ROOF IS WOOD FRAMED. THE BUILDING IS FULLY SPRINKLED. TYPE V-B CONSTRUCTION TYPE ALLOWS FOR TWO FLOORS OF CONSTRUCTION, BUT A THIRD IS ALLOWED DUE TO THE "FULLY SPRINKLERED" PROVISION. IN ADDITION, THE TOTAL PER FLOOR AREA OF 9,000 IS INCREASED PER CODE ALLOWANCES FOR THE FIRE SPRINKLER AND THE FRONTAGE INCREASE. THUS, THE PER FLOOR ALLOWABLE FLOOR ARE IS ROUGHLY 30,325 SQUARE FEET AND THE EXISTING PER FLOOR AREA IS ROUGHLY 22,450 SQUARE FEET.

THE ALTERATION OF THIS SUITE IS APPROXIMATELY 1.5% OF THE BUILDING AREA THUS FALLING WELL BELOW THE VALUE THAT WOULD REQUIRE APPLICATION OF CHAPTER 9 OF THE IEBC. THE OCCUPANT LOAD IS NOT INCREASING THUS, PLUMBING FIXTURES FOR THE STORY ARE NOT TO BE ALTERED.

USE AND OCCUPANCY CLASSIFICATION:	B HIGHER EDUCATION LABORATORY SPACE
WORK AREA FLOOR AREA:	800 SF [1.5% OF THE BUILDING FLOOR AREA]
CONSTRUCTION TYPE:	EXISTING CONSTRUCTION V-B, FULLY SPRINKLED
TOTAL BUILDING OCCUPANT LOAD:	317 (EQUALLY DISTRIBUTED)
WORK AREA OCCUPANT LOAD:	TOTAL 8 OCCUPANTS [EXISTING CONDITIONS HAVE ACCOMMODATED AN EQUIVALENT NUMBER OF OCCUPANTS] B; OLF 100 GROSS = 800 SF THEREFORE 8 OCCUPANTS
RISK CATEGORY [IBC T1604.5]:	II

FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS [IBC T601]:

EXTERIOR BEARING WALLS:	0 HOUR
INTERIOR BEARING WALLS:	0 HOUR
COLUMNS, GIRDERS, BEAMS:	0 HOUR
FLOORS, ROOF:	0 HOUR
SHAFTS & HOISTWAYS:	2 HOUR @ SCHWEITZER; 1 HOUR @ SCHWEITZER ADDITION
EXIT STAIR ENCLOSURES:	2 HOUR @ SCHWEITZER, 1 HOUR @ SCHWEITZER ADDITION
CORRIDORS, ELEVATOR LOBBY:	0 HOUR

FIRE PROTECTION SYSTEM REQUIREMENTS
PORTABLE FIRE EXTINGUISHERS
PORTABLE FIRE EXTINGUISHERS ARE REQUIRED IN ACCORDANCE WITH NFPA 10.
FOR LIGHT [LOW] HAZARD OCCUPANCIES, ONE 2-A RATED EXTINGUISHER SHALL BE PROVIDED IN CONSPICUOUS LOCATIONS FOR EACH 3,000 SF MAXIMUM UNIT OF A, EACH 11,250 SF MAXIMUM OF FLOOR AREA, AND WITH A 75' MAXIMUM TRAVEL DISTANCE TO EACH EXTINGUISHER

FIRE SEPARATIONS [IBC T508.4]: NO SEPARATION REQUIREMENT.

CORRIDOR FIRE-RESISTANCE RATING [IBC T1020.1]: 0 HOUR WITH SPRINKLER SYSTEM

MEANS OF EGRESS [IEBC 805.1]: THE REQUIREMENTS OF THIS SECTION SHALL BE LIMITED TO WORK AREAS THAT INCLUDE EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT WITHIN THE WORK AREA IN WHICH LEVEL 2 ALTERATIONS ARE BEING PERFORMED, AND WHERE SPECIFIED THEY SHALL APPLY THROUGHOUT THE FLOOR ON WHICH THE WORK AREAS ARE LOCATED OR OTHERWISE BEYOND THE WORK AREA.
[IEBC 801.3]: NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS, AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE *INTERNATIONAL BUILDING CODE*.
MINIMUM EGRESS WIDTHS [IBC 1005.3]: OCCUPANT LOAD REMAINS UNCHANGED, MODIFICATIONS ARE NOT REQUIRED
EXIT AND EXIT ACCESS DOORS [IBC 1010.1.1]: 32" MIN. CLEAR WIDTH; ALL DOORS ARE IN COMPLIANCE
MINIMUM CORRIDOR WIDTH [IBC T1020.2]: 36" MIN.; ALL CORRIDORS ARE IN COMPLIANCE
MINIMUM NUMBER OF EXITS [IBC T1006.3.2, IEBC 805.3]: OCCUPANT LOAD REMAINS UNCHANGED, MODIFICATIONS ARE NOT REQUIRED
MAXIMUM COMMON PATH OF TRAVEL [IBC T1006.2.1]: 100' [IEBC 805.4.1.1]: 75'; IN COMPLIANCE
MAXIMUM TRAVEL DISTANCE TO EXIT [IBC T1017.2, IEBC 805]: 300' MODIFICATIONS ARE NOT REQUIRED
MAXIMUM DEAD ENDS, SPRINKLERED [IBC 1020.4, IEBC 805.6]: NOT APPLICABLE WITHIN THE WORK AREA
ACCESSIBLE MEANS OF EGRESS [IBC 1009]: NOT MODIFIED, IN COMPLIANCE

ALL ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE (1) ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED FROM AN ACCESSIBLE SPACE OR FLOOR, EACH SPACE OR FLOOR SHALL BE SERVICED BY NOT LESS THAN TWO (2) ACCESSIBLE MEANS OF EGRESS, CONTINUOUS TO THE PUBLIC WAY.

ACCESSIBILITY [IEBC SECTION 305.6]: A FACILITY THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE PROVISIONS IN CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE, UNLESS TECHNICALLY INFEASIBLE. WHERE COMPLIANCE WITH THIS SECTION IS TECHNICALLY INFEASIBLE, THE ALTERATION SHALL PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.
ACCESSIBLE ENTRANCES [IBC 1105]: NOT MODIFIED; IN COMPLIANCE
[IBC 105.1]: 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE; IN COMPLIANCE
[IBC 1105.1.6]: AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH TENANT IN A FACILITY; IN COMPLIANCE

EXIT SIGNS [IBC 1013.1 EXCEPTION 1]: EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

PLUMBING FIXTURE COUNT [IBC CHAPTER 29, IEBC 809.1]: IBEC 809.1, THE OCCUPANT LOAD IS NOT INCREASED BY MORE THAN 20%, THUS ADDITIONAL FIXTURES ARE NOT REQUIRED.

SPECIAL INSPECTIONS [IBC CHAPTER 17]: NOT REQUIRED WITH THE SCOPE OF WORK.

DELEGATED DESIGN: FIRE SPRINKLER AND FIRE ALARM SYSTEMS ARE REQUIRED TO BE PREPARED BY A FIRE PROTECTION ENGINEER LICENSED IN THE STATE OF MISSOURI AND PROVIDED FOR THE MU DESIGN ENGINEER REVIEW AND APPROVAL.

CODE PLAN LEGEND

SYMBOL	DESCRIPTION	NOTES
	LEVEL 1 ALTERATIONS (IEBC, CH 6)	
	LEVEL 2 ALTERATIONS (IEBC, CH 7)	
	NO SCOPE	
	EXIT (INTERIOR)	
F.E. (E)	FIRE EXTINGUISHER (EXSTG)	
	FIRE EXTINGUISHER SPACING (RADIUS)	
	2 HOUR EXIT ENCLOSURE (VERTICAL)	
	1 HOUR FIRE BARRIER	
	2 HOUR FIRE BARRIER	
	1 HOUR SHAFT (2 OR MORE FLOORS [IEBC 802.2.1])	
OCC W W	ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (CLEAR WIDTH)	OCCUPANTS REQUIRED WIDTH PROVIDED WIDTH
	EXIT SIGN	

GENERAL NOTES:
A. WHERE ALL RATED ASSEMBLIES INTERSECT EXISTING CONCRETE FLOOR SLABS, THE SLABS SHALL BE REPAIRED AS NEEDED IN ORDER TO MAINTAIN THE HORIZONTAL ASSEMBLY, TYP.
B. PROVIDE APPROVED FIRE STOPPING SYSTEM AT RATED WALL OR FLOOR PENETRATIONS.

STATE OF MISSOURI
Emily M. Johnson
A-2020011136
ARCHITECT

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Emily M. Johnson
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09/13/21	ISSUED FOR CONSTRUCTION	
DRAWN BY: EJ	CHECKED BY: EJ/MS	

CAMPUS FACILITIES
Planning, Design, & Construction
Design Services
UNIVERSITY OF MISSOURI

SCHWEITZER HALL
COLUMBIA, BOONE COUNTY, MISSOURI 65211
RENOVATE LAB 213
CODE PLAN & ANALYSIS

PROJECT NUMBER
CP211261

SHEET
G003