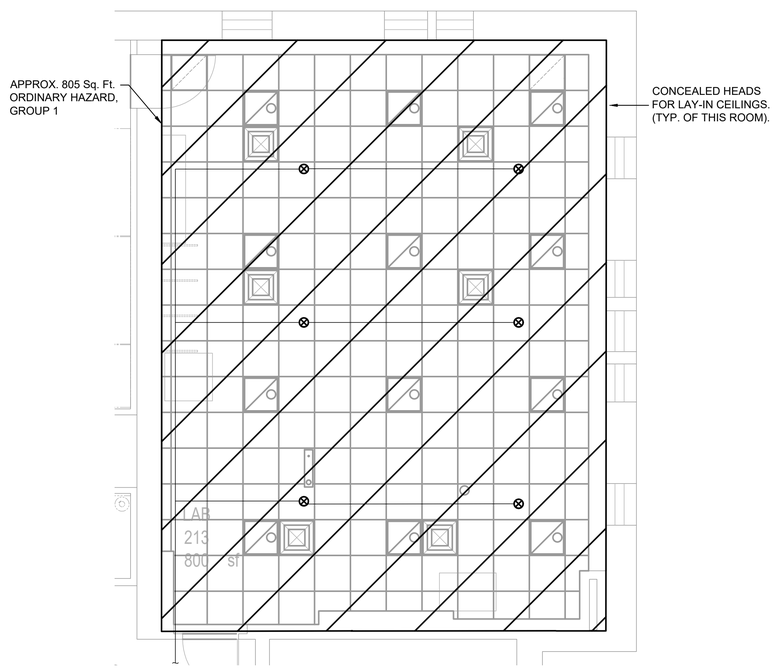
SCOPE:
(FOR ALT #1 ONLY)
ADJUST FIRE SPRINKLER SYSTEM TO ACCOMMODATE NEW CONCEALED SPRINKLER HEADS IN PLACE OF EXISTING EXPOSED SPRINKLER HEADS.



FIRE SPRINKLER PLAN - PROPOSED LAYOUT - ALT #1

SCALE: 1/4" = 1'-0"

RENOVATION NOTES

INDICATES NOTES LOCATED ON PLAN

1. GENERAL:
   - A. FIELD VERIFY ALL PIPE CONNECTION POINTS SHOWN. IF CONNECTIONS CANNOT BE MADE AS SHOWN NOTIFY OWNER'S REPRESENTATIVE TO APPROVE VARIATIONS.
   - B. NEW PIPING SHALL NOT INTERFERE WITH OR RESTRICT (INCLUDING BUT NOT LIMITED TO) LIGHTING, AIR FLOWS, NECESSARY ACCESS TO ELECTRICAL, HVAC AND PIPING ELEMENTS, ETC.
2. EQUIPMENT:
   - A. NOT USED
3. DUCTWORK:
   - A. NOT USED
4. PIPING:
   - A. COORDINATE INSTALLATION OF PIPING WITH OTHER DISCIPLINES IN AREAS OF SHARED SPACE.
5. CONTROLS:
   - A. NOT USED
6. MISCELLANEOUS:
   - A. NOT USED
7. SPRINKLERS:
   - A. SPRINKLER SHUT DOWN MUST BE COORDINATED WITH THE OWNER'S REP. WHO SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF SERVICE INTERRUPTION.
   - B. ALL FIRE PROTECTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND APPLICABLE NFPA STANDARDS.
   - C. AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 13 BY HYDRAULIC CALCULATIONS FOR UNIFORM DISTRIBUTION OF WATER OVER THE DESIGN AREA.
   - D. DISCHARGE FROM INDIVIDUAL HEADS IN THE HYDRAULICALLY MOST REMOTE AREA SHALL BE BETWEEN 100 PERCENT AND 120 PERCENT OF THE SPECIFIED DENSITY.
   - E. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN WITH CEILING GRID, LIGHTS, AND AIR SUPPLY DIFFUSERS. HEADS IN RELATION TO THE CEILING AND THE SPACING OF SPRINKLER HEADS SHALL NOT EXCEED THAT PERMITTED BY NFPA 13 FOR THE INDICATED HAZARD OCCUPANCY.
   - F. CALCULATE LOSSES IN PIPING IN ACCORDANCE WITH THE HAZEN-WILLIAMS FORMULA WITH 'C' VALUE OF 120 FOR STEEL PIPING.
   - G. PREPARE MINIMUM 24 BY 36 INCH DETAIL WORKING DRAWINGS OF SPRINKLER HEADS AND PIPING SYSTEM LAYOUT IN ACCORDANCE WITH NFPA 13, "WORKING DRAWINGS (PLANS)." SHOW DATA ESSENTIAL FOR PROPER INSTALLATION OF EACH SYSTEM. SHOW DETAILS, PLAN VIEW, ELEVATIONS, AND SECTIONS OF THE SYSTEMS SUPPLY AND PIPING. SHOW PIPING SCHEMATIC OF SYSTEMS SUPPLY, DEVICES, VALVES, PIPE, AND FITTINGS. SHOW POINT TO POINT ELECTRICAL WIRING DIAGRAMS. SUBMIT DRAWINGS INCLUDING THE HYDRAULIC CALCULATIONS SIGNED AND STAMPED BY A REGISTERED FIRE PROTECTION ENGINEER.
   - H. FIRE SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE PLANS WILL BE REVIEWED BY:
     - AUTHORITY HAVING JURISDICTION
     - MAINTENANCE ENGINEER /FIRE PROTECTION SHOP
     - DESIGN ENGINEER
   - I. ALL SPRINKLER HEADS IN A BUILDING SHALL BE OF THE SAME MANUFACTURER.
   - J. ONLY NEW EQUIPMENT AND PIPE SHALL BE USED. ALL EQUIPMENT SHALL BE UL LISTED AND FM APPROVED.
   - K. PIPE MATERIAL SHALL BE ASTM A53, SCHEDULE 40 TYPE ERW STEEL PIPE.
   - L. PIPE FITTINGS SHALL BE CAST IRON, MALLEABLE IRON OR STEEL.
   - M. PIPE JOINTS MAY BE WELDED, THREADED, OR MECHANICALLY COUPLED.
   - N. WELDER AND WELD PROCEDURE QUALIFICATIONS SHALL BE SUBMITTED WITH THE SPRINKLER SHOP DRAWINGS. ALL WELDERS AND WELDING PROCEDURES SHALL MEET OR EXCEED AWS STANDARD D10.9, LEVEL AR-3.
   - O. GROOVED JOINT FITTINGS ARE ACCEPTABLE, EXCEPT TEE FITTINGS SERVING SMALL BRANCHES OR SINGLE SPRINKLER HEADS SHALL BE SECURED WITH A 2 BOLT, CAST IRON STRAP. BRANCH FITTINGS SECURED WITH WIRE STRAPS ARE NOT PERMITTED.
   - P. HYDRAULIC DESIGN INFORMATION SHALL BE POSTED PER NFPA 13 NEAR THE WATER SERVICE ENTRANCE..
   - Q. CONTRACTOR SHALL PERFORM PRESSURE TESTING AS REQUIRED BY NFPA 13 AND PROVIDE RESULTS ON STANDARD NFPA FORMS FOR ANY/ALL FIRE SPRINKLER MODIFICATIONS PERFORMED AS PART OF THE WORK.
   - R. STRAPLESS OUTLETS ARE NOT PERMITTED.

	09/13/21	ISSUED FOR CONSTRUCTION
DRAWN BY:		CHECKED BY:

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

SCHWEITZER HALL
COLUMBIA, BOONE COUNTY, MISSOURI 65211
RENOVATE LAB 213
FIRE SPRINKLER RENOVATION PLAN

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