

| MECHANICAL ABBREVIATIONS | |
|--------------------------|---|
| LEGEND | |
| AC | AIR CONDITIONING UNIT OR AIR COMPRESSOR |
| ACH | AIR CHANGES PER HOUR |
| AHU | AIR HANDLING UNIT |
| AFF | ABOVE FINISHED FLOOR |
| BOD | BOTTOM OF DUCT - ABSOLUTE UNLESS NOTED ON DRAWINGS |
| BOP | BOTTOM OF PIPE |
| BOT | BOTTOM |
| CAI | COMBUSTION AIR INTAKE |
| CAV | CONSTANT AIR VOLUME TERMINAL UNIT |
| CFH | CUBIC FEET PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CHWS; CHWR | CHILLED WATER SUPPLY; CHILLED WATER RETURN |
| CHWS & R | CHILLED WATER SUPPLY AND CHILLED WATER RETURN |
| CU | CONDENSING UNIT |
| CUH | CABINET UNIT HEATER (HOT WATER OR STEAM) |
| CW | COLD WATER OR CLOCKWISE |
| DB | DECIBEL OR DRY BULB TEMPERATURE |
| DDC | DIRECT DIGITAL CONTROL |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| DX | DIRECT EXPANSION |
| EAT | ENTERING AIR TEMPERATURE |
| EF | EXHAUST FAN |
| ESP | EXTERNAL STATIC PRESSURE |
| ET | EXPANSION TANK |
| EWT | ENTERING WATER TEMPERATURE |
| EA | EXHAUST AIR |
| 'F | DEGREE FAHRENHEIT |
| FD | FIRE DAMPER |
| FOT | FLAT ON TOP |
| FP | FIRE PROTECTION |
| FPM | FEET PER MINUTE |
| GPM | GALLONS PER MINUTE |
| GPR | GAS PRESSURE REGULATOR |
| H | HUMIDISTAT |
| HC | HEATING COIL |
| HP | HORSEPOWER OR HEAT PUMP |
| HWP | HEATING HOT WATER PUMP |
| HWS; HWR | HEATING HOT WATER SUPPLY; HEATING HOT WATER RETURN |
| HWS & R | HEATING HOT WATER SUPPLY AND HEATING HOT WATER RETURN |
| HVAC | HEATING, VENTILATION & AIR CONDITIONING |
| HZ | HERTZ |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN OR " | INCH |
| IN W.C. | INCHES WATER COLUMN |
| IN W.G. | INCHES WATER GAUGE |
| KW | KILOWATT |
| LAT | LEAVING AIR TEMPERATURE |
| LQ | LIQUID |
| LWT | LEAVING WATER TEMPERATURE |
| MAX | MAXIMUM |
| MBH | THOUSAND BTU PER HOUR |
| MD | MOTORIZED DAMPER |
| MIN | MINIMUM OR MINUTE(S) |
| NC | NORMALLY CLOSE OR NOISE CRITERIA |
| NG | NATURAL GAS |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| OAI | OUTSIDE AIR INTAKE |
| OBD | OPPOSED BLADE DAMPER |
| PH | PHASE |
| PD | PRESSURE DROP |
| PRV | PRESSURE REDUCING VALVE |
| PSIA | POUNDS PER SQUARE INCH ABSOLUTE |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| QTY | QUANTITY |
| RAC | ROOF TOP AIR HANDLING UNIT |
| RE | ROOF TOP EXHAUST FAN |
| RET | RETURN |
| RH | RELATIVE HUMIDITY |
| RHC | REHEAT COIL |
| RPM | REVOLUTIONS PER MINUTE |
| SD | SMOKE DAMPER OR SMOKE DETECTOR |
| SF | SUPPLY FAN OR SQUARE FEET |
| SQ.FT. | SQUARE FEET |
| SUC | SUCTION |
| TYP | TYPICAL |
| UH | UNIT HEATER (HYDRONIC OR STEAM) |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER |
| VFD | VARIABLE FREQUENCY DRIVE |
| VSD | VARIABLE SPEED DRIVE |
| W/ | WITH |
| WMS | WIRE MESH SCREEN |

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
- MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE-OFF OF DUCTWORK.
- ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
- DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
- BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN, DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
- PROVIDE UL APPROVED FIRE DAMPERS IN ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES WHETHER INDICATED OR NOT.
- ELECTRICAL CONTRACTOR TO PROVIDE STARTERS FOR 3 PHASE FANS.
- IN CASES WHERE MECHANICAL AND ELECTRICAL EQUIPMENT LISTED ON THE MANUFACTURERS PRODUCT DATA SHEETS EXCEEDS DESIGN LOADS INDICATED ON DESIGN DOCUMENTS, (SEE "S" DRAWINGS) CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- AT CRITICAL CROSS SECTIONS, COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS TO SHOW MECHANICAL DUCTS, INCLUDING REQUIRED INSULATION THICKNESS, ON ARCHITECTURAL BACKGROUND DRAWINGS TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE FOR THE DUCTS BELOW THE FLOOR STEEL AND ABOVE THE CEILING, OR OTHER STRUCTURAL/ARCHITECTURAL ELEMENTS.
- ALL MECHANICAL EQUIPMENT WITHIN THE MECHANICAL ROOMS WILL BE PLACED ON CONCRETE HOUSE KEEPING PADS. ALL HOUSEKEEPING PADS WILL BE A MINIMUM OF 4" HIGH, AND WILL EXTEND BEYOND THE UNIT A MINIMUM OF 4", COORDINATE WITH ARCHITECTURAL AND STRUCTURAL.
- PROVIDE INSULATED BLANK OFF PANELS FOR ALL LOUVERED OPENINGS NOT REQUIRED FOR MECHANICAL VENTILATION. COORDINATE WITH DRAWINGS, AND SPECIFICATION SECTION 10200. ALL LOUVERS WILL BE EQUIPPED WITH INSECT SCREENS, AND BE PREFINISHED IN MANUFACTURERS STANDARD COLORS AS IDENTIFIED ON ARCHITECTURAL DRAWINGS.
- MECHANICAL CONTRACTOR WILL PROVIDE TURNING VANES ON ALL 90° ELBOWS, AND BULKHEADS.
- THE DRAWINGS ARE DIAGRAMMATIC. THE COORDINATED LAYOUT, FABRICATION, AND INSTALLATION OF THE WORK, INCLUDING OFFSETS, STACKED DUCTWORK, PIPING ARRAYS, ETC. TO ACHIEVE PROPER FIT, OPERATIONAL AND MAINTENANCE CLEARANCES SHALL BE INCLUDED IN THE BASE BID AND INDICATED ON COORDINATED SHOP DRAWINGS THAT INCLUDE THE WORK OF THIS TRADE FULLY COORDINATED WITH THE WORK OF ALL OTHER TRADES.
- THE GENERAL CONTRACTOR, THROUGH THE WORK OF THE TRADE COORDINATOR AS DEFINED IN SECTION 01010 OF THE SPECIFICATIONS IS RESPONSIBLE FOR THE OVERALL COORDINATION OF ALL HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND SITE UTILITY WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MINIMUM RATINGS OF FIRE RATED ASSEMBLIES (INCLUDING WALL AND FLOOR ASSEMBLIES). ALL PENETRATIONS THROUGH FIRE-RATED WALL AND FLOOR ASSEMBLIES FOR MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION WORK SHALL BE FIRE STOPPED AND SMOKE SEALED WITH TESTED UL ASSEMBLY MEETING OR EXCEEDING THE HOURLY FIRE RATING OF THE DESIGN ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL FIRESTOPPING DETAILS. WHETHER SHOWN ON DRAWINGS OR NOT, THE MECHANICAL CONTRACTOR WILL PROVIDE A FIRE DAMPER IN ALL ASSEMBLIES 2-HR RATED OR BETTER.

FLEXIBLE DUCTWORK:

- FINAL CONNECTIONS TO ALL BOOT ASSEMBLIES, DIFFUSERS AND REGISTERS SHALL BE MADE WITH CODE-APPROVED INSULATED FLEXIBLE DUCT, THERMAFLEX TYPE M-KE OR AS MANUFACTURED BY FLEXMASTER OR GENFLEX.
- FLEXIBLE DUCTWORK SHALL NOT BE USED IN DUCTWORK AS AN ELBOW. FLEXIBLE DUCTWORK SHALL BE STRAIGHT WITH ONLY MINOR OFFSETS NECESSARY FOR FIELD CONDITIONS.
- FLEXIBLE DUCTWORK IN LOW OR HIGH VELOCITY PORTIONS OF SUPPLY DUCT SYSTEMS SHALL BE TYPE 3 - INSULATED FLEXIBLE DUCT OR AS MANUFACTURED BY FLEXMASTER THERMOFLEX OR GENFLEX.
- FLEXIBLE DUCTWORK IN RETURN SYSTEMS SHALL BE INSULATED FLEXIBLE DUCT THERMAFLEX TYPE MK-E OR AS MANUFACTURED BY FLEXMASTER N145 THERMAFLEX OR GENFLEX.
- FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH IN EITHER MEDIUM OR LOW VELOCITY SYSTEMS, SHALL BE PROPERLY SUPPORTED TO PREVENT KINKS OR SAGS, AND SHALL NOT BE USED AS AN ELBOW.
- CONNECTIONS SHALL BE SECURED WITH WRAPLOCK CLAMPS AND SEALED WITH DUCT SEALER.
- INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES WHICH MAY RESTRICT TYPE, LENGTH AND USE OF FLEXIBLE DUCT.

CITY OF CHICAGO CODE REQUIREMENTS FOR HVAC

HVAC NOTES:

- CLEARANCES FOR FORCED AIR FURNACES MUST CONFORM TO MANUFACTURER'S REQUIREMENTS.
- NOISE LEVEL OF ALL HVAC EQUIPMENT SHALL NOT EXCEED 55 DECIBELS AT LOT LINE.
- ALL DUCTWORK MUST BE GALVANIZED STEEL UNLESS NOTED OTHERWISE.
- FRESH AIR INTAKE TO BE A MINIMUM OF 15'-0" FROM CONTAMINANTS, AND EXHAUSTS.
- ALL FLEXIBLE DUCTWORK SHALL BE APPROVED BY THE CITY OF CHICAGO, AND SHALL BE FLEXMASTER TYPE 5 INSULATED LOW PRESSURE DUCTWORK. UL LISTED 181 CLASS 1, AIR DUCT MATERIAL. LENGTH SHALL NOT EXCEED 5'-0".
- THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS, EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE RECIRCULATED.
- SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE SHOWN ON DRAWING(S)
- MANUAL DAMPERS SHALL BE OF THE LOCKING TYPE.
- HORIZONTAL TRANSFER DUCTS SHALL NOT EXCEED 5FT. IN LENGTH.
- EXHAUST AIR SHALL BE DISCHARGED TO THE OUTSIDE AT A POINT WHERE IT WILL NOT CAUSE A NUISANCE, AND FROM WHICH IT CANNOT AGAIN BE READILY DRAWN IN BY A VENTILATING SYSTEM. ALL EXHAUST SHALL BE A MINIMUM OF 15' FROM THE NEAREST OUTSIDE AIR INTAKE.
- TOTAL COMBINED OFFSETS ON FLEX DUCT CAN NOT EXCEED 90°.

| VENTILATION SYMBOLS | | MECHANICAL SYMBOLS | |
|---------------------|-------------|--------------------|------------------------------------|
| SINGLE LINE | DOUBLE LINE | SYMBOL | DESCRIPTION |
| | | | PRESSURE GAUGE AND COCK |
| | | | STRAINER |
| | | | STRAINER W/BLOW-OFF VALVE |
| | | | THERMOMETER |
| | | | PRESSURE / TEMPERATURE SENSOR |
| | | | CAP |
| | | | UNION |
| | | | ANCHOR W/ALIGNMENT GUIDES |
| | | | EXPANSION JOINT |
| | | | FLEXIBLE CONNECTION |
| | | | PRESSURE RED. VALVE |
| | | | RELIEF VALVE |
| | | | TRIPLE DUTY VALVE |
| | | | CHECK VALVE (SP) SPRING |
| | | | BALANCING VALVE |
| | | | GLOBE VALVE |
| | | | GATE VALVE |
| | | | BUTTERFLY VALVE - WHEN DIA. > 2" |
| | | | BALL VALVE - WHEN DIA. < 2" |
| | | | VALVE WITH MEMORY STOP |
| | | | GAS COCK |
| | | | CONTROL VALVE, 2-WAY |
| | | | CONTROL VALVE, 3-WAY |
| | | | CIRCUIT SETTER |
| | | | CODE BACKFLOW PREVENTOR |
| | | | UNIT HEATER - VERTICAL |
| | | | UNIT HEATER - HORIZONTAL |
| | | | PIPE DOWN |
| | | | PIPE UP |
| | | | EXISTING PIPING TO BE REMOVED |
| | | | EXISTING PIPING TO REMAIN |
| | | | NEW PIPING |
| | | | PIPING ASSEMBLY - SEE DETAIL |
| | | | VENT (MANUAL OR AUTOMATIC) |
| | | | FLOW CONTROL FITTING |
| | | | FLOW INDICATOR |
| | | | FLOW SWITCH |
| | | | PRESSURE SWITCH |
| | | | BASE MOUNTED PUMP - SEE DETAIL |
| | | | IN-LINE PUMP - SEE DETAIL |
| | | | EQUIPMENT (SPECIFIED BY TAG BELOW) |
| | | | EQUIPMENT TAG W/NUMBER |
| | | | DRAIN LINE |
| | | | GAS LINE |
| | | | VENT LINE |
| | | | HOT WATER HEATING SUPPLY |
| | | | HOT WATER HEATING RETURN |

NOTE: NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT.

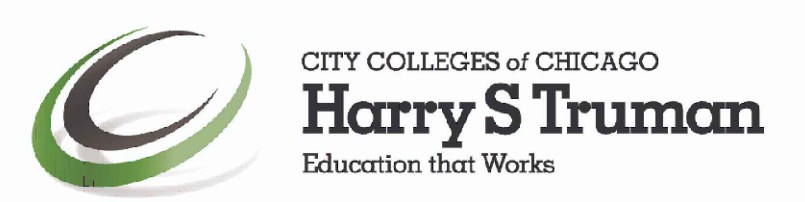
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| NO. DATE | REVISIONS/ISSUANCES |



CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

| | |
|------------------|-------|
| PROJECT NUMBER: | 42242 |
| PROJECT MANAGER: | RC |
| ARCH/ENG: | SR |
| SCALE: | N/A |
| DRAWN BY: | SK |
| CHECKED BY: | SR |

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MECHANICAL SYMBOLS, NOTES AND ABBREVIATIONS

M0-1

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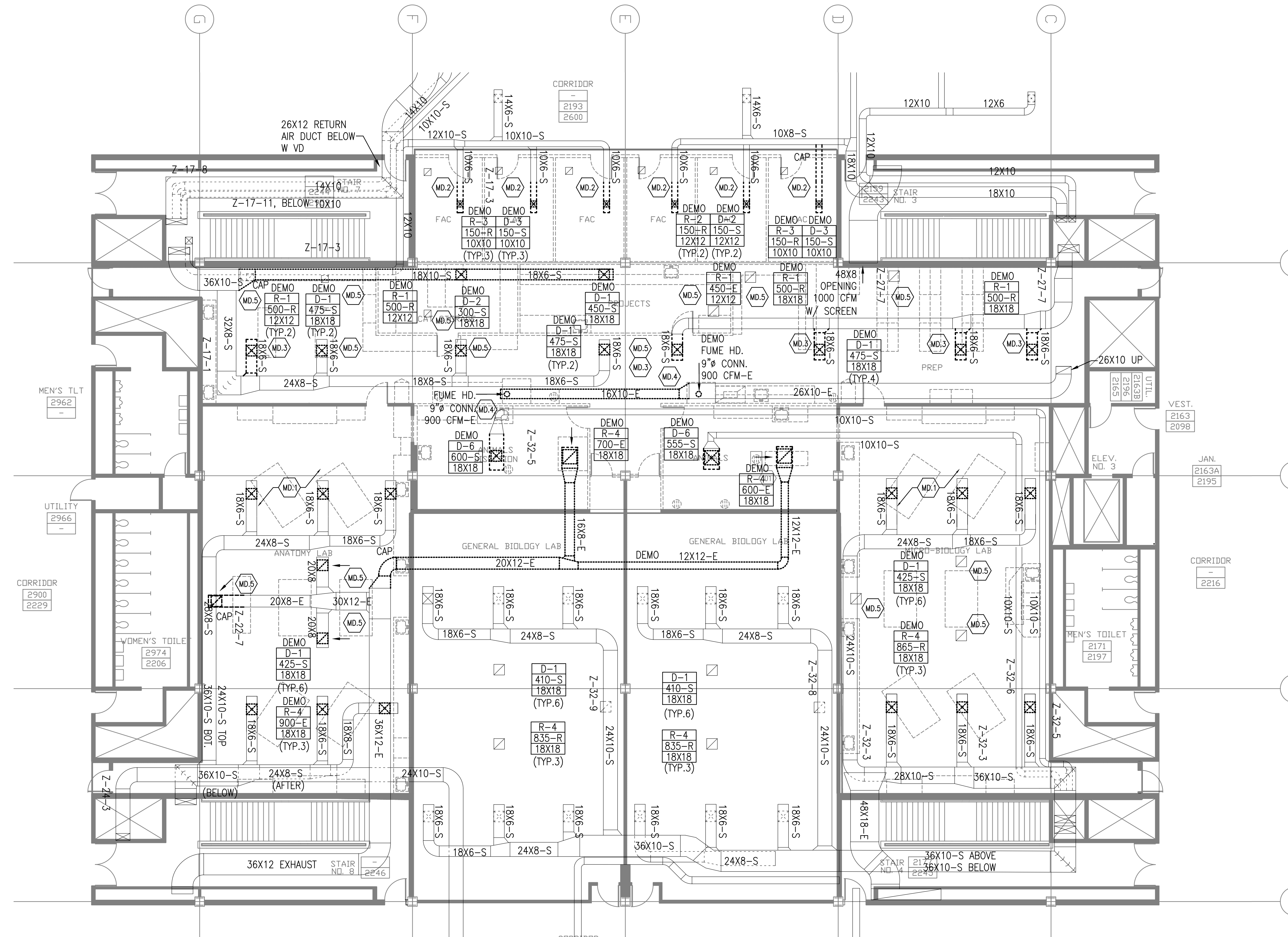
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KEYED NOTES:

- MD.1 EXISTING DUCTWORK TO REMAIN. DISCONNECT AND DEMOLISH DIFFUSERS/REGISTERS AS PART OF CEILING REFRESH. ANATOMY LAB: 9 DIFFUSERS/REGISTERS. BIOLOGY LAB: 9 DIFFUSERS/REGISTERS.
- MD.2 DEMOLISH 10X6 DUCTWORK AND DIFFUSERS BACK TO NEAREST DUCT JOINT.
- MD.3 DEMOLISH 18X6 DUCTWORK AND DIFFUSERS BACK TO NEAREST DUCT JOINT.
- MD.4 DISCONNECT AND DEMOLISH EXHAUST DUCT TAPS FROM FUME HOOD TO EXHAUST MAIN.
- MD.5 EXISTING DUCTWORK TO REMAIN. DISCONNECT AND DEMOLISH REGISTERS AS PART OF CEILING REFRESH.

LEGEND:

NOT IN CONTRACT



1 MECHANICAL SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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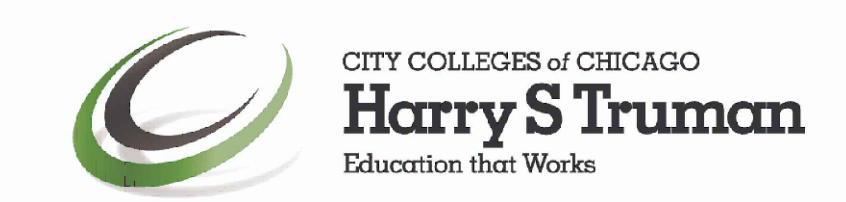
CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

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| DRAWN BY: | SK |
| CHECKED BY: | SR |

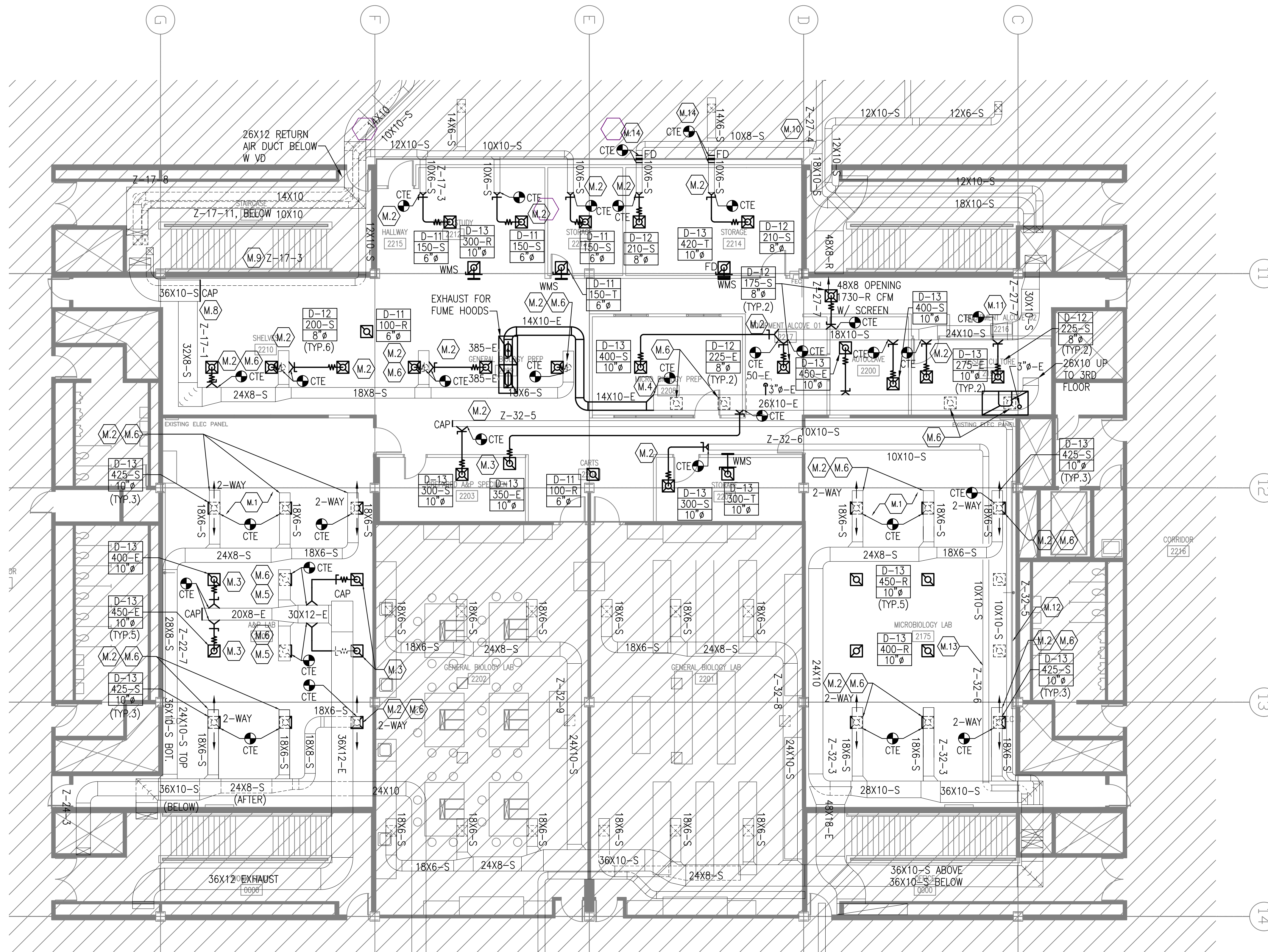
MECHANICAL SECOND FLOOR DEMOLITION PLAN

M1-1

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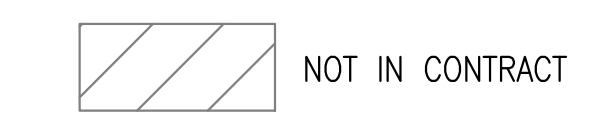
SEAL



KEYED NOTES:

- M.1 EXISTING DUCTWORK TO REMAIN. PROVIDE NEW DIFFUSERS/REGISTERS AS PART OF CEILING REFRESH. ANATOMY LAB: 9 DIFFUSERS/REGISTERS. BIOLOGY LAB: 9 DIFFUSERS/REGISTERS.
- M.2 PROVIDE NEW DUCT TAP (REFER TO DIFFUSER TAG FOR DUCT DIAMETER) FROM MAIN AND PROVIDE NEW DIFFUSER.
- M.3 PROVIDE NEW DUCT TAP (REFER TO REGISTER TAG FOR DUCT DIAMETER) FROM MAIN AND PROVIDE NEW REGISTER.
- M.4 PROVIDE NEW EXHAUST DUCT TAP FROM FUME HOOD TO EXHAUST MAIN.
- M.5 EXISTING DUCTWORK TO REMAIN. PROVIDE NEW REGISTERS AS PART OF CEILING REFRESH.
- M.6 EXISTING DUCTWORK TO REMAIN. SEE DETAIL M7-1-11.
- M.7 DEMOLISH AND REPLACE RE-16. THE NEW FAN SERVES: SECOND FLOOR BIOLOGY LABS & PREP AREA, (2) NEW FUME HOODS, NEW SAFETY CABINET AND EXHAUST FROM TISSUE CULTURE, AUTOCLAVE, PREPARED A&P SPECIMEN AND MICROBIOLOGY PREP.
- M.8 REBALANCE ZONE Z-17-1 FROM 1,900 CFM TO 1,700 CFM. RAC-17 DOES NOT NEED TO BE REBALANCED.
- M.9 ZONE Z-17-3 DOES NOT CHANGE. IT REMAINS 700 CFM. RAC-17 DOES NOT NEED TO BE REBALANCED.
- M.10 REBALANCE ZONE Z-27-4 FROM 1,225 CFM TO 1,075 CFM. RAC-27 DOES NOT NEED TO BE REBALANCED.
- M.11 REBALANCE ZONE Z-27-7 FROM 2,400 CFM TO 2,200 CFM. RAC-27 DOES NOT NEED TO BE REBALANCED.
- M.12 REBALANCE ZONE Z-32-5 FROM 600 CFM TO 300 CFM. RAC-32 DOES NOT NEED TO BE REBALANCED.
- M.13 REBALANCE ZONE Z-32-6 FROM 555 CFM TO 300 CFM. RAC-32 DOES NOT NEED TO BE REBALANCED.
- M.14 PROVIDE A FIRE DAMPER IN RATED WALL.

LEGEND:



1 MECHANICAL SECOND FLOOR NEW WORK PLAN
1/8" = 1'-0"

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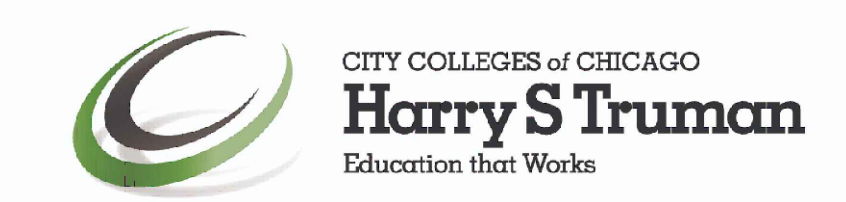
CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

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MECHANICAL SECOND FLOOR NEW WORK PLAN

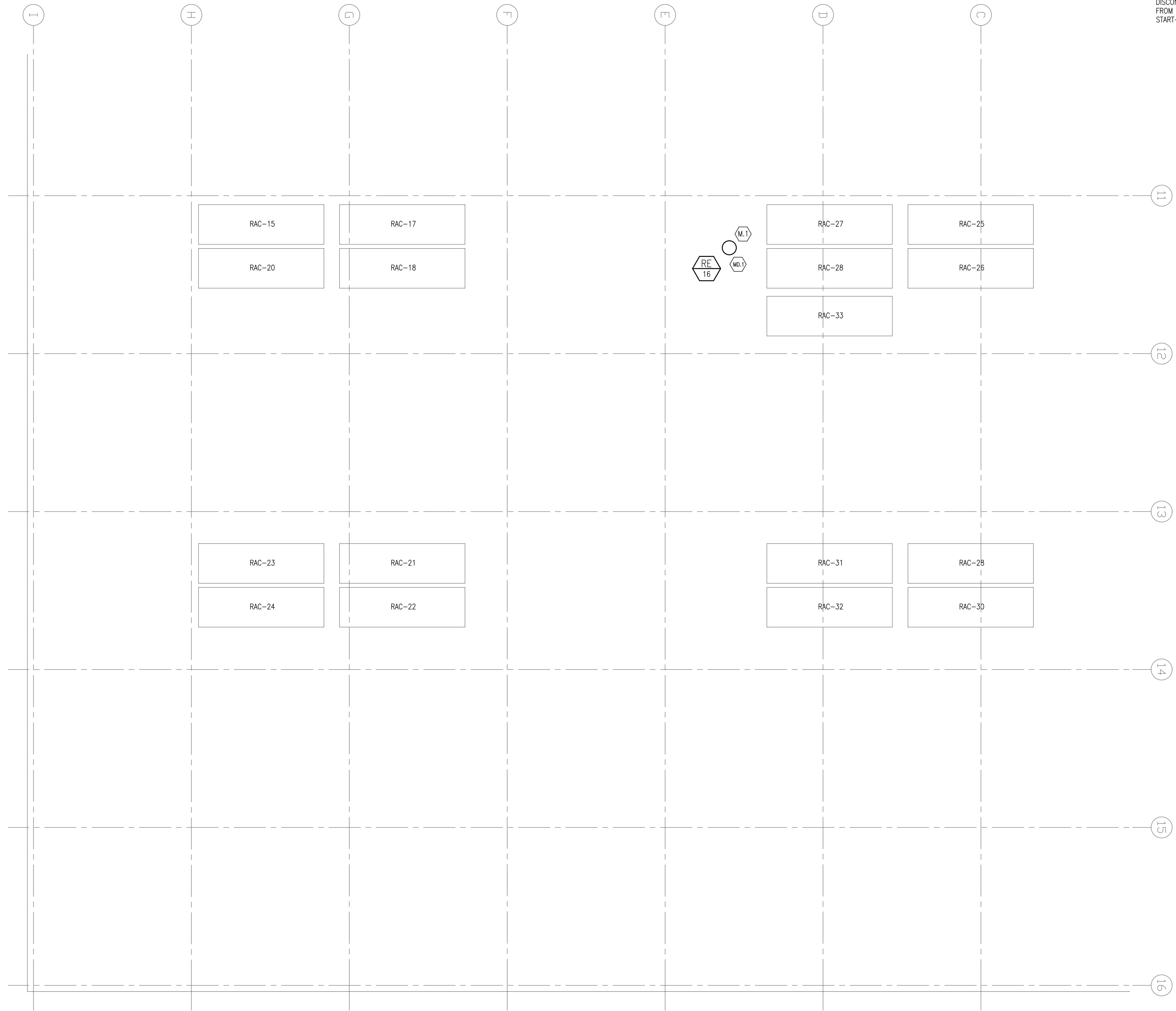
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SEAL

KEYED NOTES:
 (M.1) DEMOLISH RE-16 FAN.
 (M.1) PROVIDE NEW CENTRIFUGAL UPBLAST EXHAUST FAN. PROVIDE ROOF CURB ADAPTER AS REQUIRED. PROVIDE NEW NON-FUSED DISCONNECT SWITCH FOR CONNECTION BY ELECTRICAL TRADE FROM EXISTING PANELBOARD AND CIRCUIT. PROVIDE FULL START-UP AND TEST AND BALANCE OF NEW FAN.



1 MECHANICAL ROOF PLAN
 1/8" = 1'-0"

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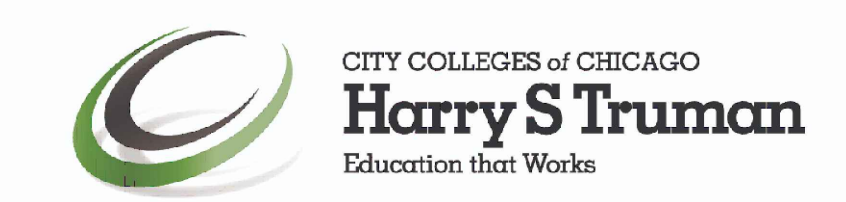
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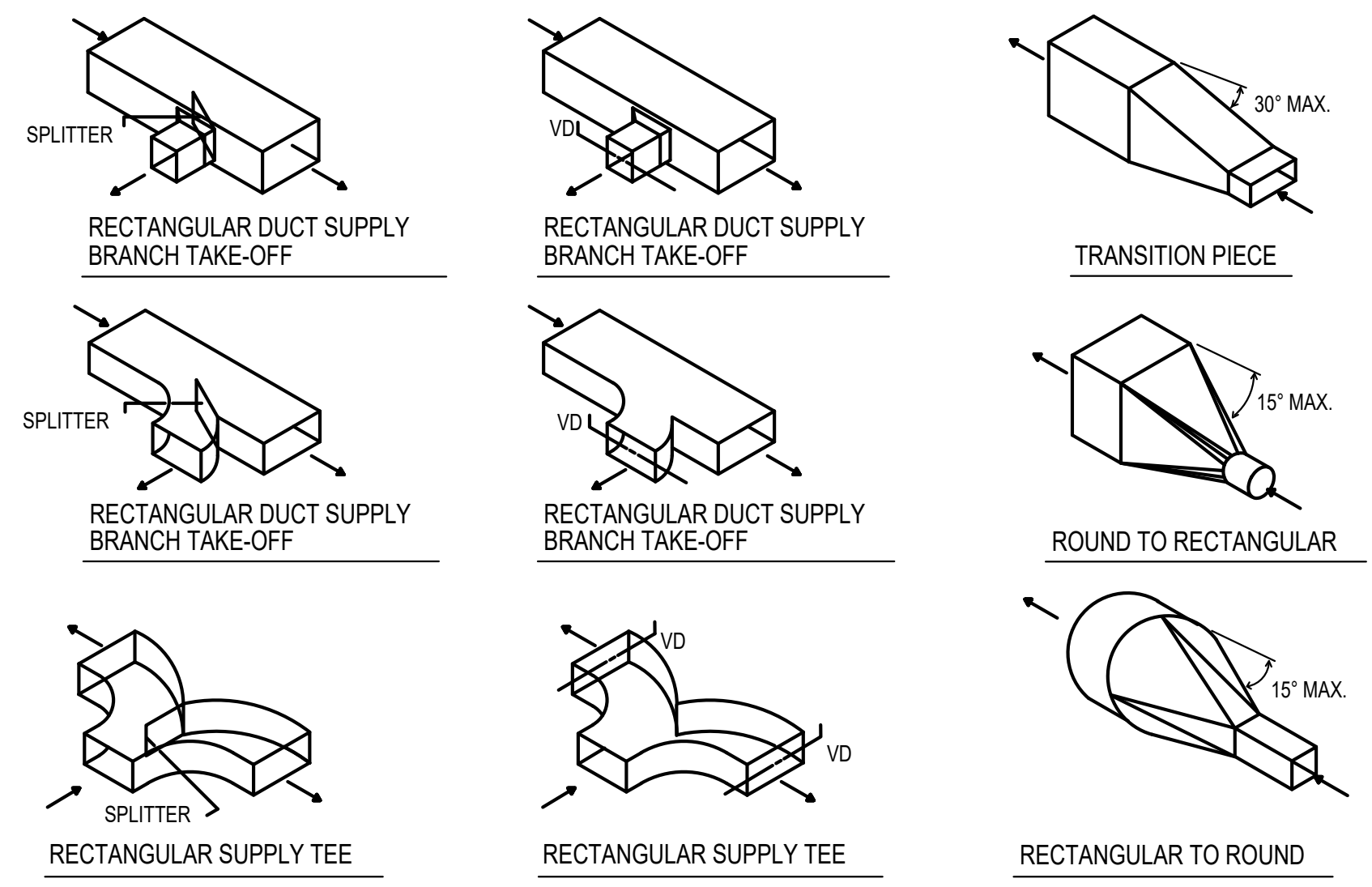


MECHANICAL ROOF PLAN

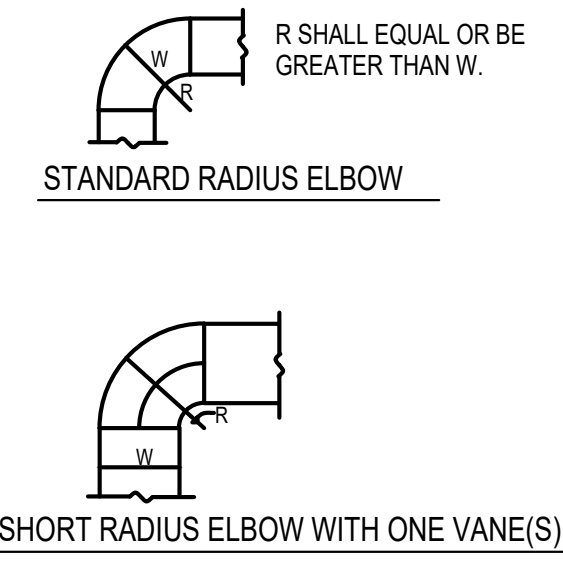
M2-2

SEAL

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NOTES:
 1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
 2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED & FASTENED AS RECOMMENDED BY SMACNA.
 3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED.

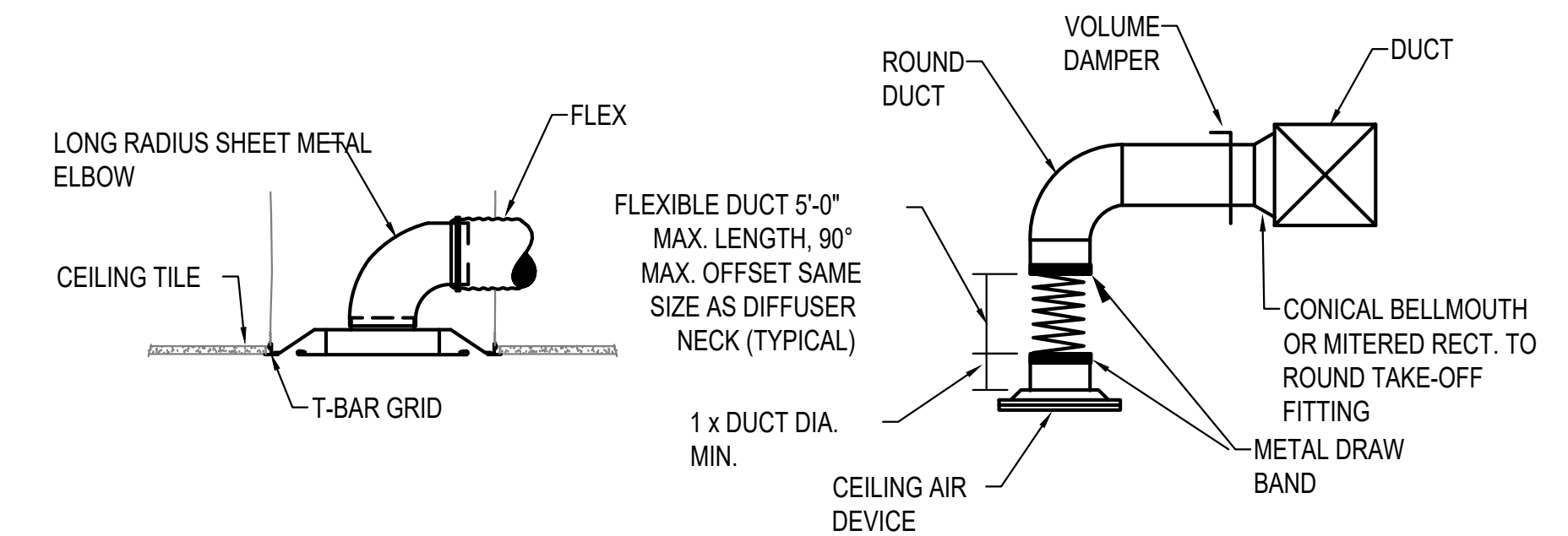
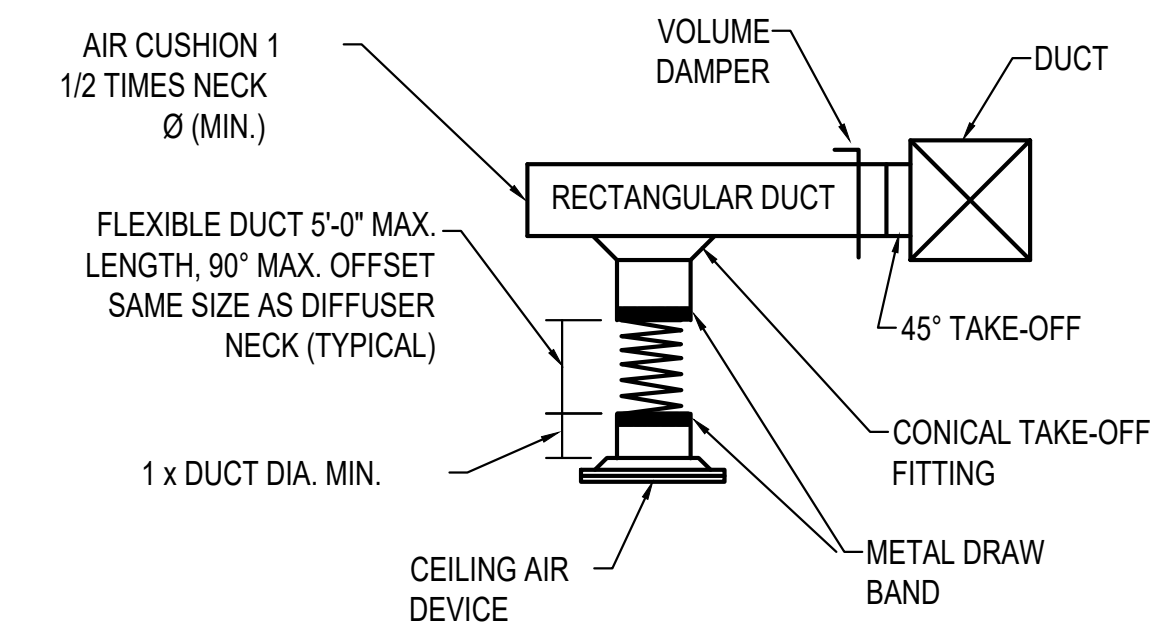


NOTE:
 1. IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S) SHALL BE PROVIDED, SEE SCHEDULE BELOW.
 2. INSIDE BEND MAY BE SQUARE FOR W > 12", NO SQUARE HEELS PERMITTED.

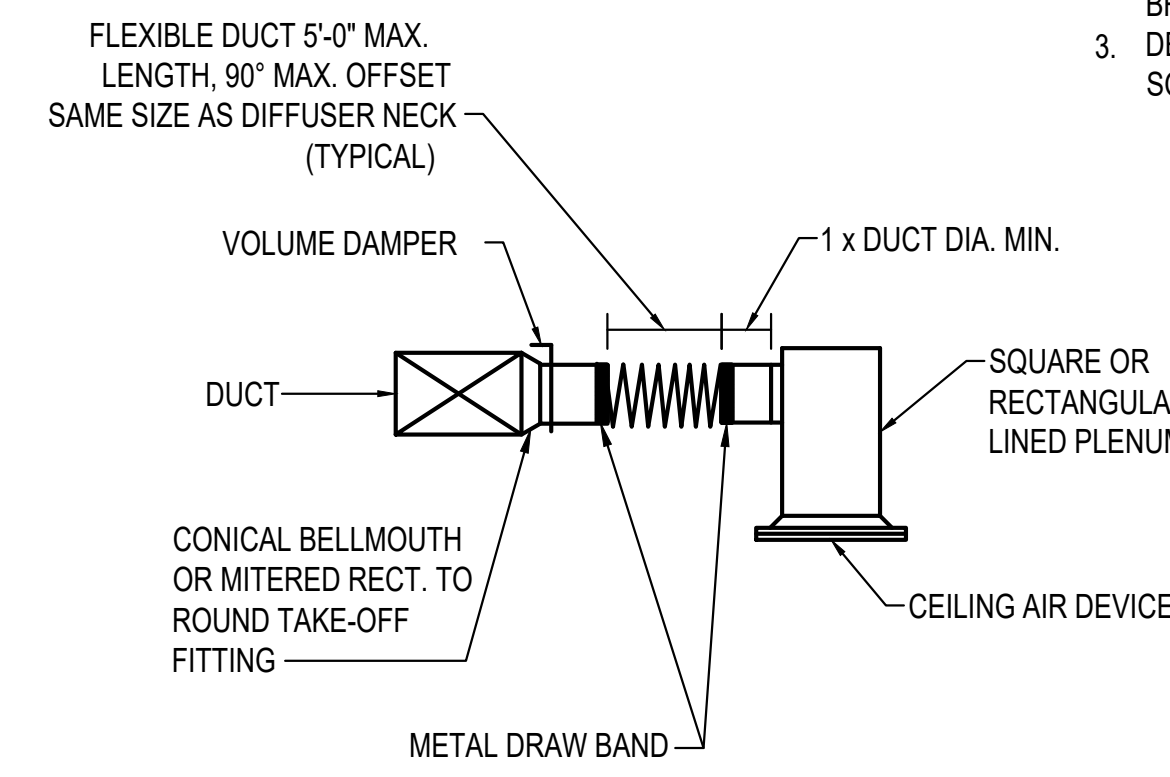
| WIDTH | NO. OF VANES |
|---------|--------------|
| ≤ 12" | 1 |
| 12"-24" | 2 |
| 24"-36" | 3 |
| 36"-60" | 4 |
| 60"-84" | 5 |
| > 84" | 6 |

1 TYPICAL DUCT DETAILS

SCALE: N.T.S.

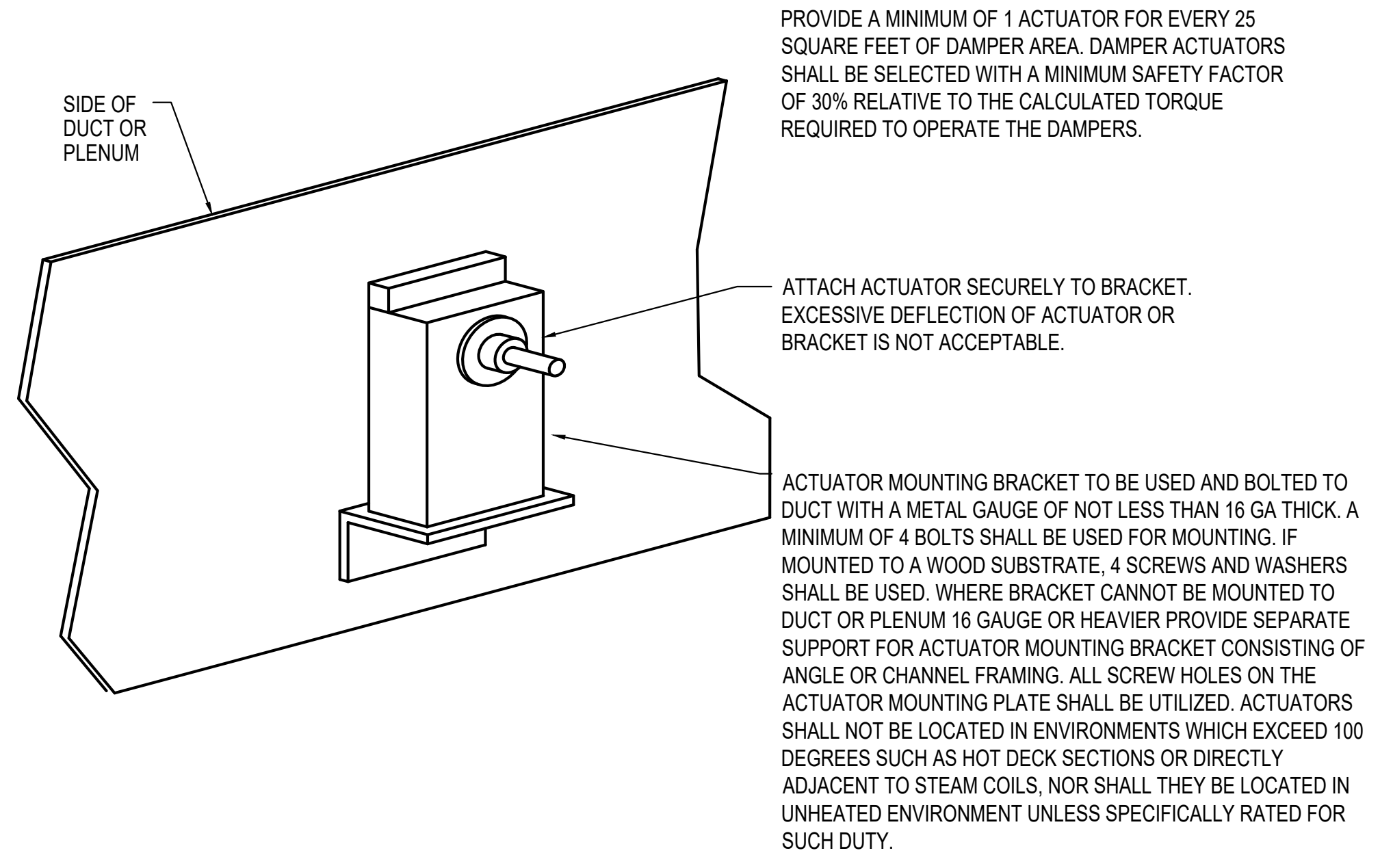


NOTES:
 1. SPIN COLLARS SHALL NOT BE PERMITTED.
 2. SPECIAL CONDITIONS THAT CAN NOT MEET ONE OF THESE STANDARDS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION ON A CASE BY CASE BASIS.
 3. DETAILS ILLUSTRATE INSTALLATION WITH ROUND NECK DIFFUSERS AND DUCTS. SQUARE OR RECTANGULAR NECK DIFFUSERS AND DUCTS SHALL BE SIMILAR.



2 TYPICAL AIR DEVICE (INLET / OUTLET) INSTALLATION DETAIL

SCALE: N.T.S.



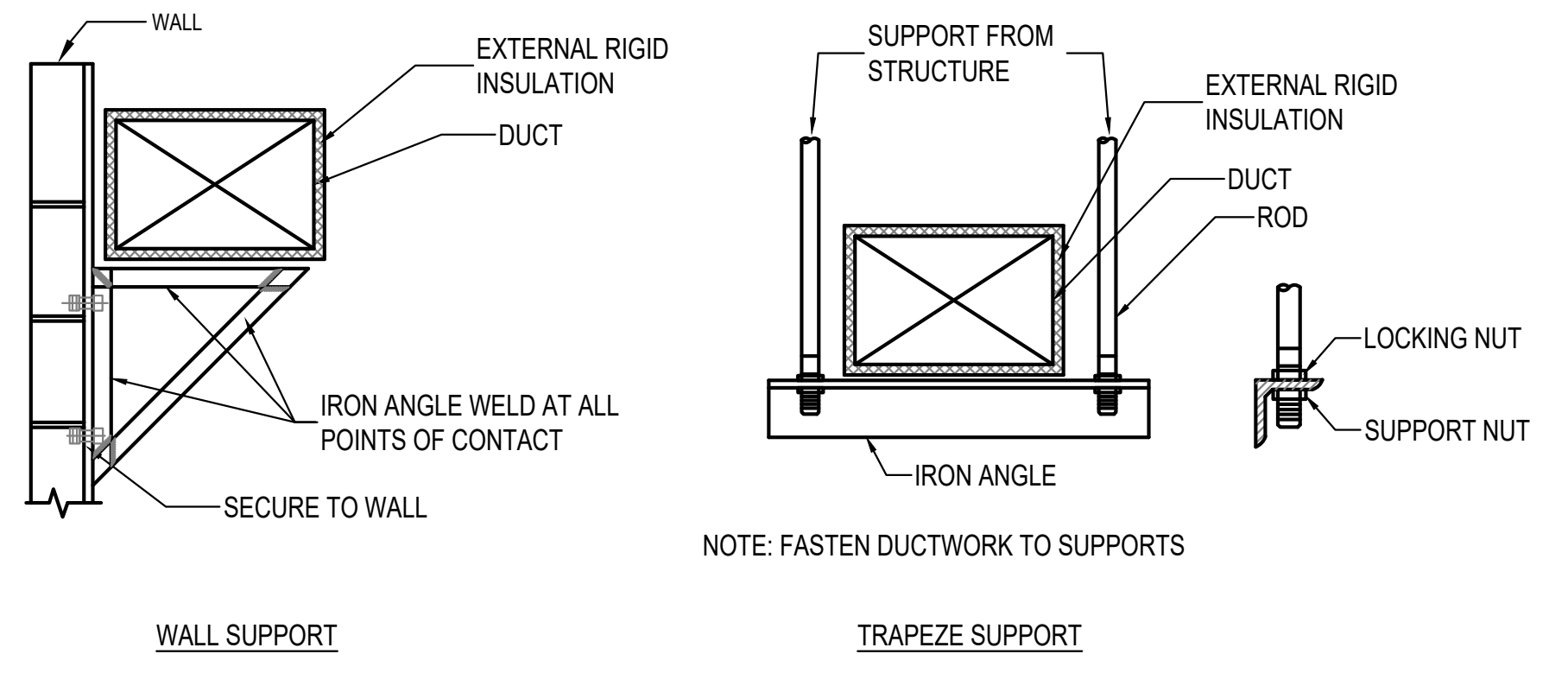
PROVIDE A MINIMUM OF 1 ACTUATOR FOR EVERY 25 SQUARE FEET OF DAMPER AREA. DAMPER ACTUATORS SHALL BE SELECTED WITH A MINIMUM SAFETY FACTOR OF 30% RELATIVE TO THE CALCULATED TORQUE REQUIRED TO OPERATE THE DAMPERS.

ATTACH ACTUATOR SECURELY TO BRACKET. EXCESSIVE DEFLECTION OF ACTUATOR OR BRACKET IS NOT ACCEPTABLE.

ACTUATOR MOUNTING BRACKET TO BE USED AND BOLTED TO DUCT WITH A METAL GAUGE OF NOT LESS THAN 16 GA THICK. A MINIMUM OF 4 BOLTS SHALL BE USED FOR MOUNTING. IF MOUNTED TO A WOOD SUBSTRATE, 4 SCREWS AND WASHERS SHALL BE USED. WHERE BRACKET CANNOT BE MOUNTED TO DUCT OR PLENUM 16 GAUGE OR HEAVIER PROVIDE SEPARATE SUPPORT FOR ACTUATOR MOUNTING BRACKET CONSISTING OF ANGLE OR CHANNEL FRAMING. ALL SCREW HOLES ON THE ACTUATOR MOUNTING PLATE SHALL BE UTILIZED. ACTUATORS SHALL NOT BE LOCATED IN ENVIRONMENTS WHICH EXCEED 100 DEGREES SUCH AS HOT DECK SECTIONS OR DIRECTLY ADJACENT TO STEAM COILS, NOR SHALL THEY BE LOCATED IN UNHEATED ENVIRONMENT UNLESS SPECIFICALLY RATED FOR SUCH DUTY.

3 DAMPER ACTUATOR DETAIL

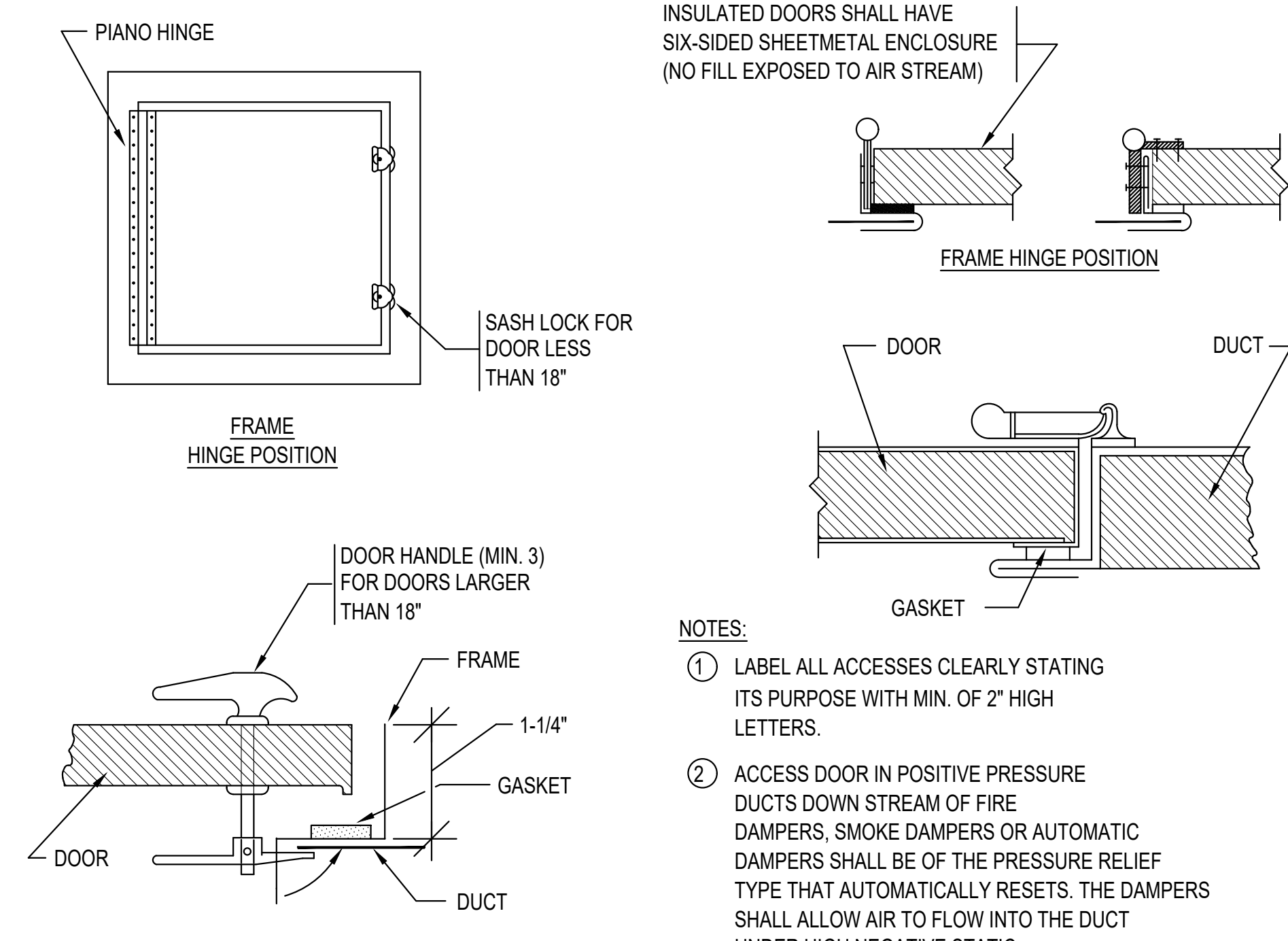
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NOTE: FASTEN DUCTWORK TO SUPPORTS

4 INTERIOR DUCTWORK SUPPORT DETAIL

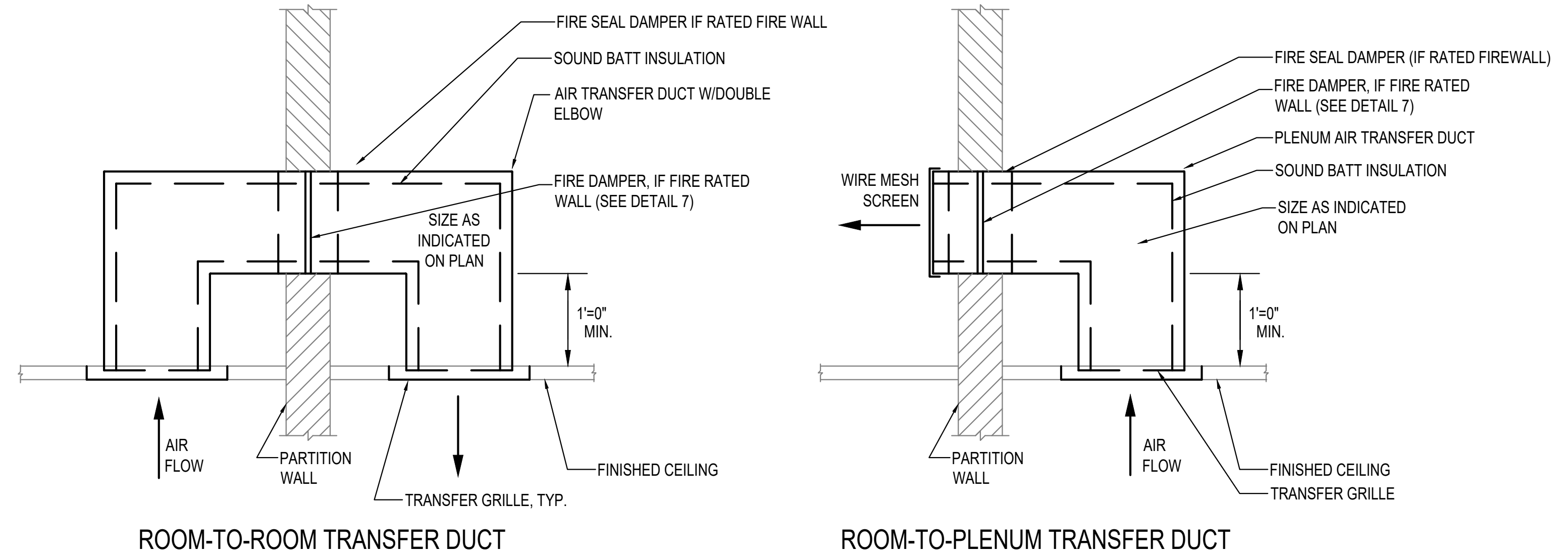
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NOTES:
 ① LABEL ALL ACCESSES CLEARLY STATING ITS PURPOSE WITH MIN. OF 2" HIGH LETTERS.
 ② ACCESS DOOR IN POSITIVE PRESSURE DUCTS DOWN STREAM OF FIRE DAMPERS, SMOKE DAMPERS OR AUTOMATIC DAMPERS SHALL BE OF THE PRESSURE RELIEF TYPE THAT AUTOMATICALLY RESETS. THE DAMPERS SHALL ALLOW AIR TO FLOW INTO THE DUCT UNDER HIGH NEGATIVE STATIC.

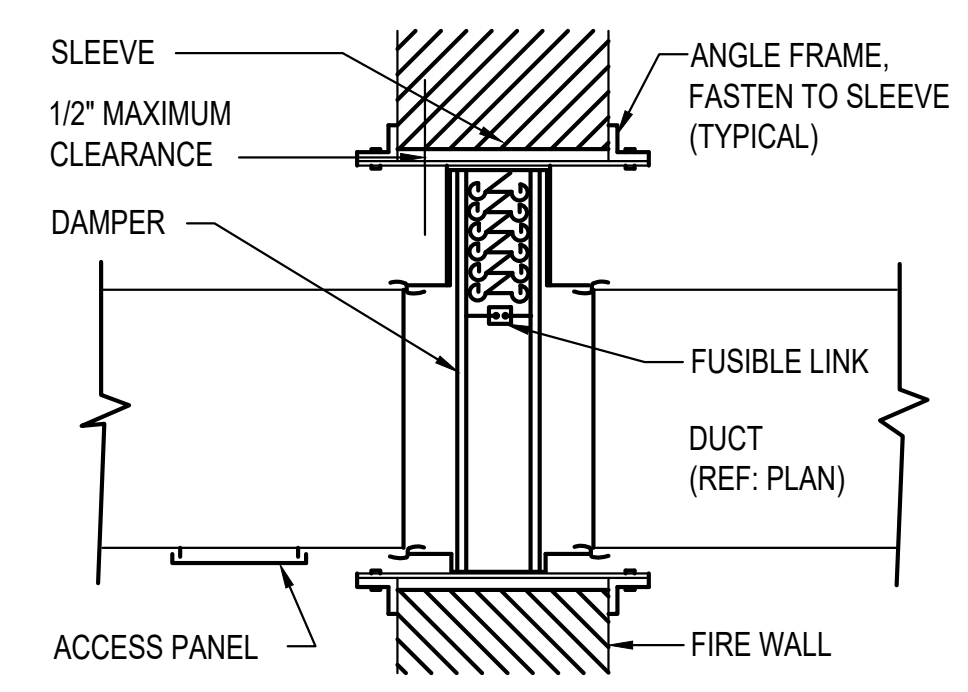
5 DUCT ACCESS DOORS

SCALE: N.T.S.



6 TYPICAL TRANSFER DUCT DETAILS

SCALE: N.T.S.



7 TYPICAL FIRE DAMPER DETAIL

SCALE: N.T.S.

NOTES:
 1. OPENINGS IN FIRE RATED CONSTRUCTION SHALL 1/8" PER FOOT LARGER THAN THE DAMPER DIMENSIONS.
 2. SLEEVE SHALL BE 1/8" STEEL OR AS OTHERWISE APPROVED. DUCT TO SLEEVE CONNECTION SHALL BE MADE WITH ONE OF THE FOLLOWING CONNECTIONS: PLAIN S SLIP, HEMMED S SLIP, STANDING S SLIP OR DOUBLE S SLIP. CONNECTION SHALL NOT BE SCREWED OR OTHERWISE FASTENED.
 3. MOUNTING ANGLES SHALL BE MINIMUM 1-1/2" X 1-1/2" X 1/8" AND BOLTED, TACK WELDED OR SCREWED TO SLEEVE AT 12" ON CENTER MAXIMUM, WITH 2 CONNECTIONS MINIMUM EACH SIDE, TOP AND BOTTOM.
 4. MOUNTING ANGLES SHALL OVERLAP OPENING A MINIMUM OF 1" ON ALL 4 SIDES.
 5. DAMPER SHALL BE BOLTED, TACK WELD OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES.

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PROJECT NUMBER: 42242
 PROJECT MANAGER: RC
 ARCH/ENG: SR
 SCALE: N/A
 DRAWN BY: SK
 CHECKED BY: SR

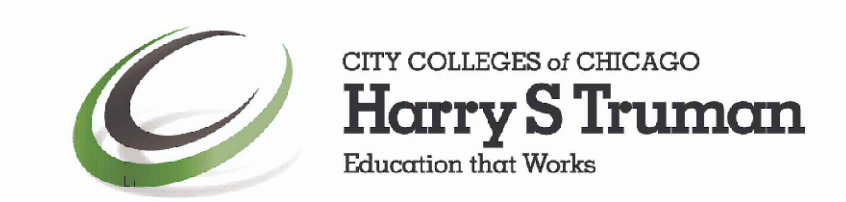
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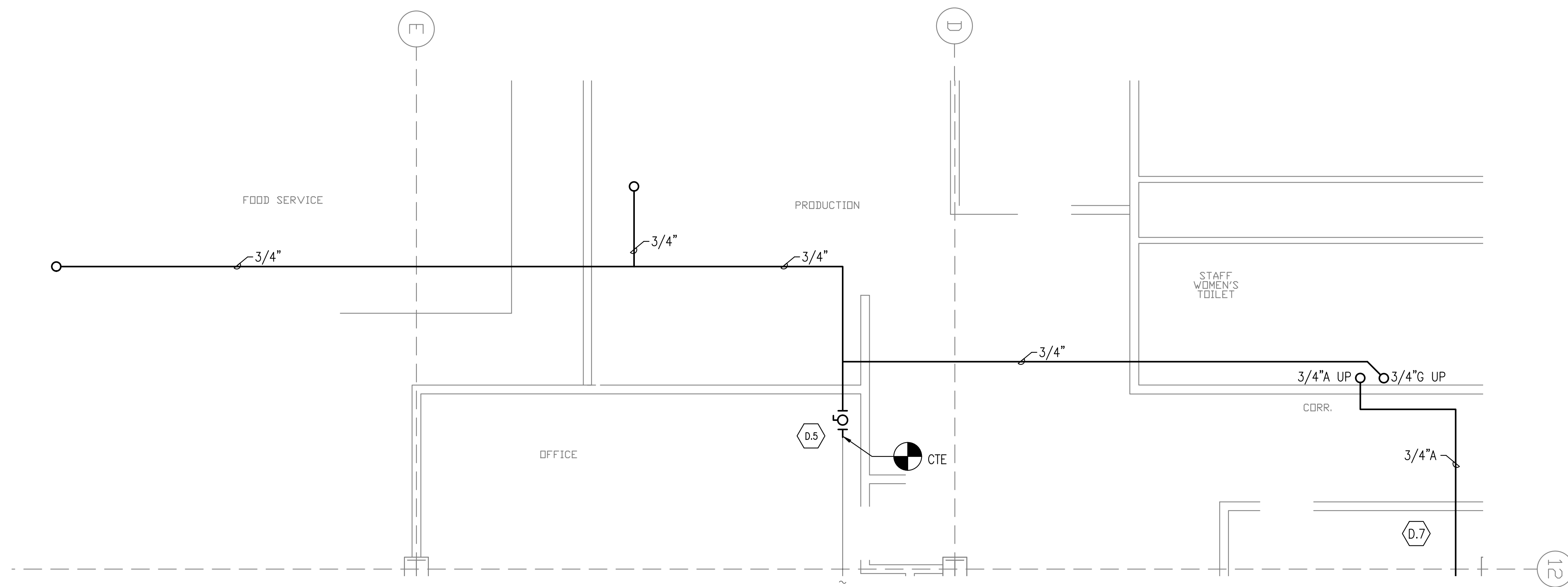
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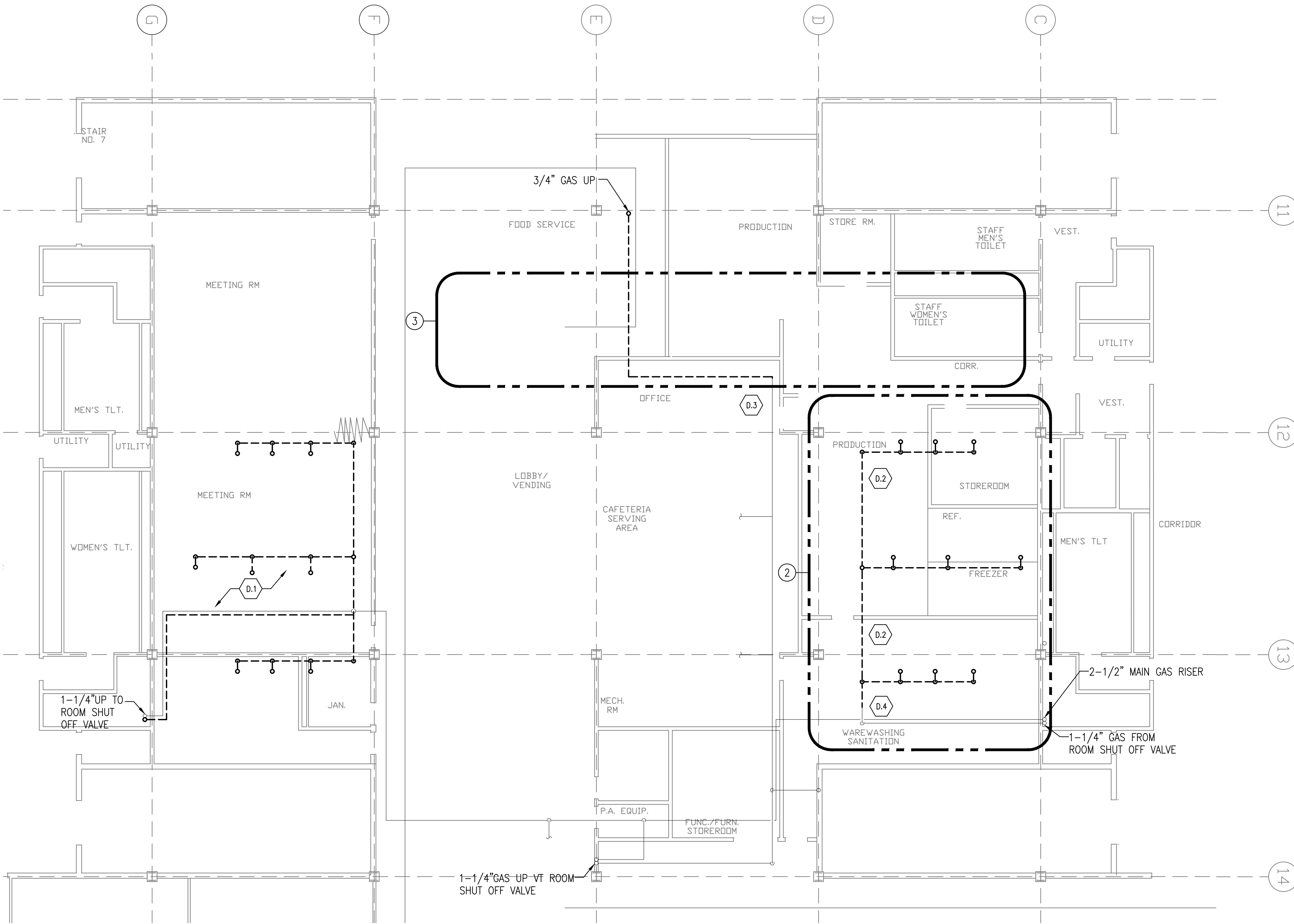
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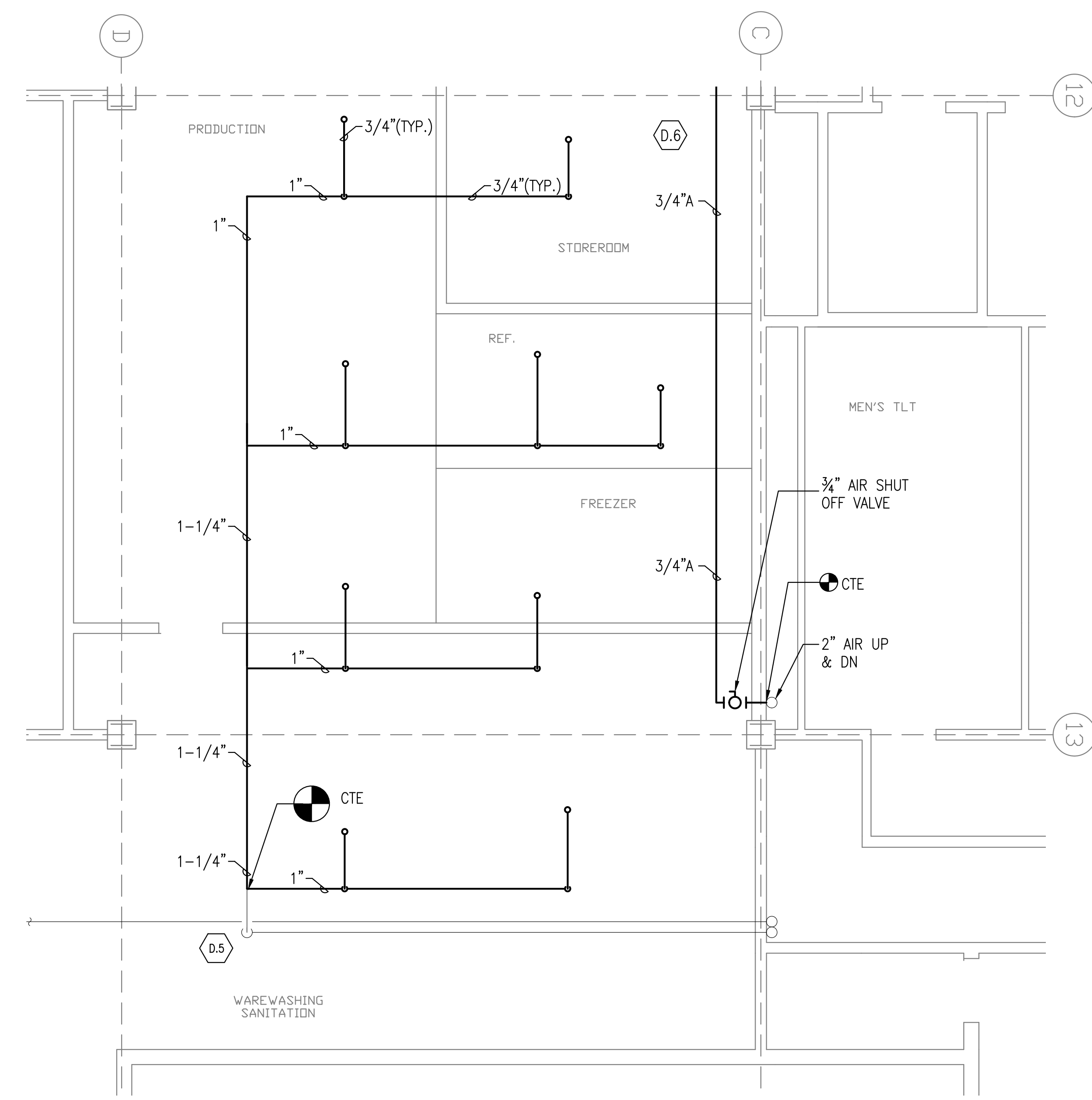
MECHANICAL DETAILS
 M6-1



3 MECHANICAL PIPING PARTIAL FIRST FLOOR CEILING PLAN
1/4" = 1'-0"



1 MECHANICAL PIPING PLAN 1ST FLR CEILING DEMOLITION
1/8" = 1'-0"



2 MECHANICAL PIPING PARTIAL PLAN 1ST FLOOR CEILING NEW WORK
1/4" = 1'-0"

- KEYED NOTES:**
- D.1) FOR AP LAB, DEMO ALL GAS PIPING FROM 2ND FLOOR GAS SHUT OFF VALVE IN SOUTHWEST CORNER OF ROOM DOWN TO 1ST FLOOR CEILING AND DISTRIBUTION PIPING TO EXISTING AP STUDENT AND TEACHER DESKS TO BE DEMOLISHED. CAP EXISTING SHUTOFF VALVE IN CABINET.
 - D.2) FOR MICROBIOLOGY LAB, DEMO GAS DISTRIBUTION PIPING IN 1ST FLOOR CEILING DOWNSTREAM OF SHUTOFF VALVE WHERE INDICATED. CAP EXISTING PIPE FOR CONTINUATION UNDER NEW WORK TO NEW STUDENT AND TEACHER DESKS.
 - D.3) FOR OPEN LAB AREA, DEMO GAS DISTRIBUTION PIPING IN 1ST FLOOR CEILING WHERE INDICATED WITH ISOLATION BALL VALVE FOR CONNECTION UNDER NEW WORK. FOR NEW WORK. SEE PARTIAL PLAN 3, THIS SHEET
 - D.4) FOR NEW WORK, SEE PARTIAL PLAN 2, THIS SHEET.
 - D.5) FOR CONTINUATION, SEE PARTIAL PLAN 1, THIS SHEET.
 - D.6) FOR CONTINUATION, SEE PARTIAL PLAN 3, THIS SHEET.
 - D.7) FOR CONTINUATION, SEE PARTIAL PLAN 2, THIS SHEET.

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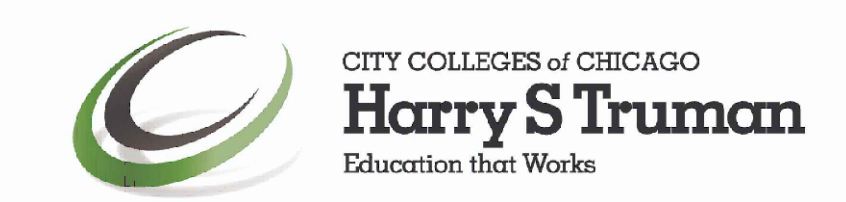
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MECHANICAL PIPING FIRST FLOOR CEILING PLANS

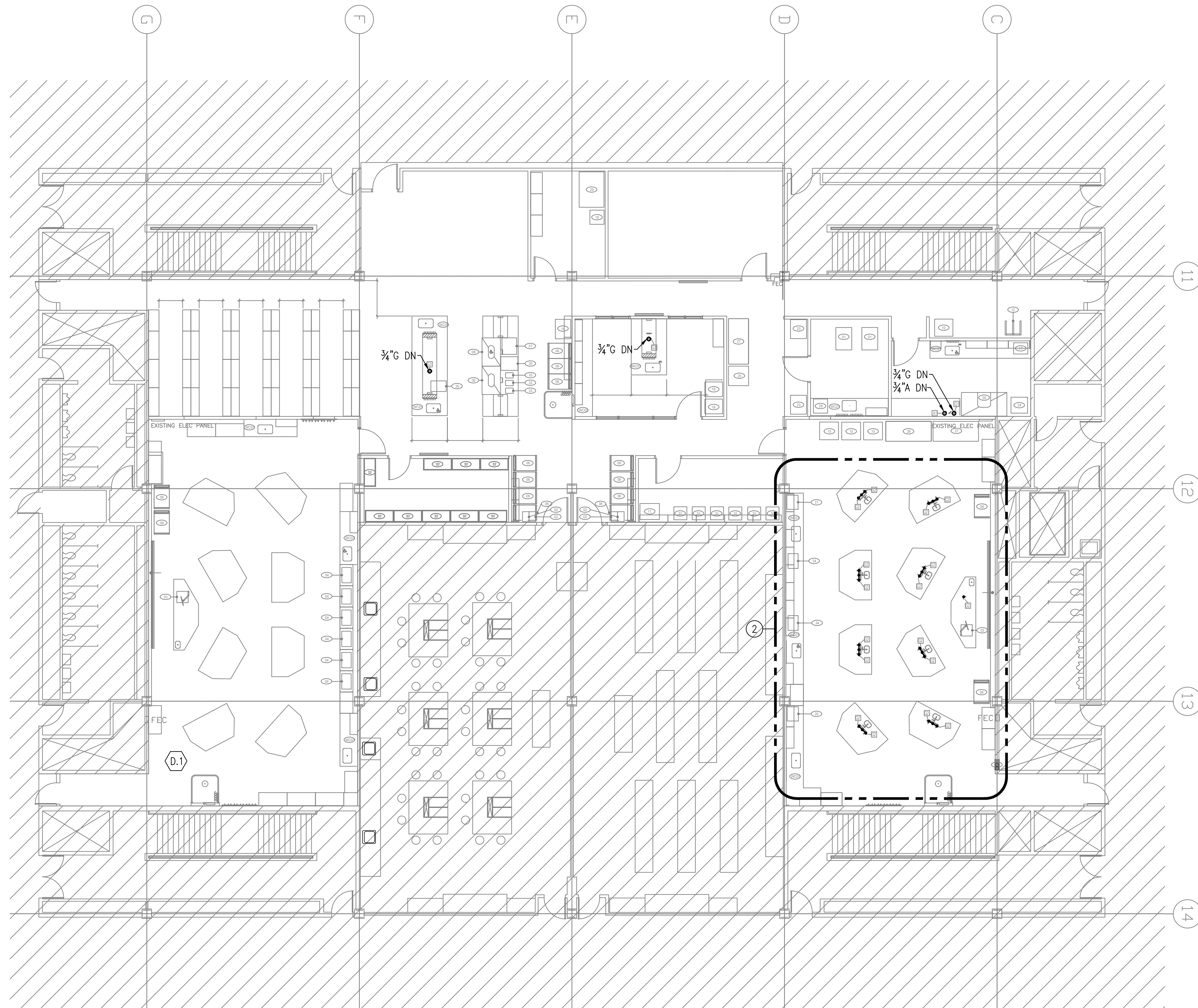
MP2-1

SEAL

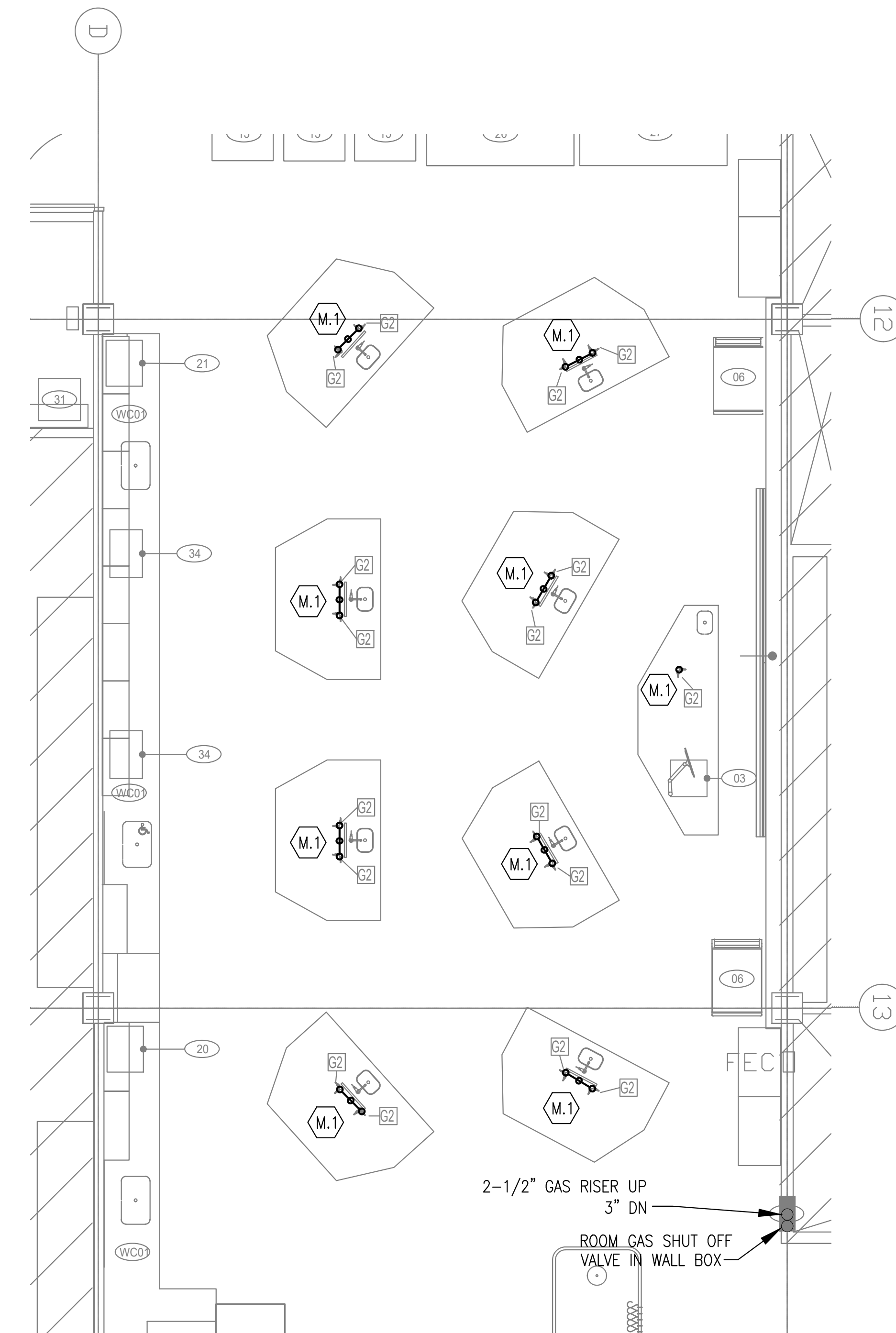
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KEYED NOTES:

- (D.1) FOR AP LAB, DEMO ALL GAS PIPING FROM 2ND FLOOR GAS SHUT OFF VALVE IN SOUTHWEST CORNER OF ROOM DOWN TO 1ST FLOOR CEILING AND DISTRIBUTION PIPING TO EXISTING AP STUDENT AND TEACHER DESKS TO BE DEMOLISHED. CAP EXISTING SHUTOFF VALVE IN CABINET.
- (M.1) PROVIDE 3/4" SERVICE SHUT OFF BALL VALVE IN 3/4" RISER PIPE ABOVE FLOOR.



1 MECHANICAL PIPING PLAN 2ND FLOOR
1/8" = 1'-0"



2 MECHANICAL PIPING PARTIAL PLAN 2ND FLOOR NEW WORK
1/4" = 1'-0"

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MECHANICAL PIPING
SECOND FLOOR PLAN

MP2-2

Environmental Engineer MEPFP Engineer Architect of Record

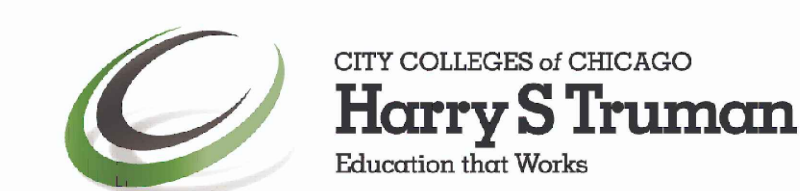
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SEAL

DEMOLITION NOTES:

- EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SITE CONDITIONS VISIBLE AT THE TIME OF THE SURVEY. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF EXISTING WORK TO BE DEMOLISHED.
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AFFECTED BY THE DEMOLITION. COORDINATE EXACT SCOPE OF WORK WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
- ALL EXPOSED CONDUITS, HANGERS, SUPPORTS, ETC. THAT ARE ABANDONED SHALL BE REMOVED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT OF THE CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
- WHERE EXISTING DEVICES, CONDUIT WIRE, SUPPORTS, HANGERS AND OTHER ELECTRICAL EQUIPMENT MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED. IF REMOVED BACK TO THE PANEL, LABEL THAT CIRCUIT AS SPACE.
- PATCH ALL HOLES IN SLABS, WALLS AND CEILING WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL.
- ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED FOR THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT THE CONDUIT IS CLEAN, FREE OF CORROSION, FREE OF DAMAGE AND ADEQUATELY SUPPORTED.
- WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK TO ACCOMMODATE.
- SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES ETC. SERVING THE SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, ETC. SHALL BE REROUTED AND RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED TO ALLOW FOR INSTALLATION OF NEW WORK, AFTER WHICH TEMPORARY WIRING SHALL BE REMOVED.
- ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
- CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL, AND CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
- CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REVISED OR EXTENDED. ENSURE THAT EXISTING EQUIPMENT COMPLIES WITH NEW WORK REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO REROUTE, AND REFEED ALL EXISTING EQUIPMENT/DEVICES TO REMAIN BUT MAY BE AFFECTED BY EQUIPMENT BEING DEMOLISHED.

GENERAL DEMOLITION LEGEND:

- EX EXISTING ELECTRICAL EQUIPMENT (DEVICE) TO REMAIN.
- EXR EXISTING ELECTRICAL EQUIPMENT (DEVICE) TO BE REMOVED.
- EXRL EXISTING ELECTRICAL EQUIPMENT (DEVICE) TO BE RELOCATED. ELECTRICAL CONTRACTOR SHALL INTERCEPT EXISTING CONDUIT AND WIRING AND EXTEND TO NEW LOCATION. RECONNECT EQUIPMENT AT NEW LOCATION AS INDICATED ON THE DRAWINGS.
- EXRR EXISTING ELECTRICAL EQUIPMENT (DEVICE) TO BE REMOVED AND REINSTALLED IN PLACE. RECONNECT EXISTING CIRCUITS. EXTEND EXISTING CONDUIT AND WIRING TO NEW LOCATION IF NECESSARY TO MAKE FINAL CONNECTIONS.

LEGEND:

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NEW

ELECTRICAL GENERAL NOTES:

- THE CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL, AND POWER WIRING IS OMITTED. THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES, EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT.
- EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- CONDUIT SHALL BE USED IN CONCEALED SPACES ONLY EXCEPT IN MECHANICAL AND ELECTRICAL SPACES. ALL OTHER SPACES SHALL USE SURFACE METAL RACEWAY. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC.
- FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK/CASEWORK DETAILS.
- REMOVE ALL CABLING, CONDUIT AND DEVICES IN THE AREA OF WORK THAT ARE NOT BEING REUSED. MAKE SUFFICIENT ALLOWANCE IN PRICING. NO CHANGE ORDERS WILL BE APPROVED FOR REMOVAL OF THESE ITEMS.

GENERAL ELECTRICAL SYMBOLS

GENERAL ELECTRICAL SYMBOLS

PNL ELECTRICAL PANEL

WP DUPLX RECEPTACLES

GFCI XX ADJACENT LETTERS IN THE SYMBOLS ABOVE INDICATE THE FOLLOWING: "GFCI" INDICATES RECEPTACLE HAS GROUND FAULT CIRCUIT INTERRUPTER "WP" INDICATES RECEPTACLE HAS WATERPROOF COVER "XX" INDICATES RECEPTACLE CIRCUIT NUMBER

QUAD RECEPTACLE

DUPLX RECEPTACLE (6" ABOVE COUNTER)

SPECIAL RECEPTACLES

LAB EQUIPMENT TAG

MECHANICAL EQUIPMENT TAG

1a ELECTRICAL JUNCTION BOX

1a ELECTRICAL JUNCTION BOX WITH FLEX CONNECTION

P.F. FLOOR BOX WITH FLEXIBLE CONDUIT (VERIFY WITH CPS CODE) TO FINAL EQUIPMENT OR FURNITURE SYSTEM

"P" INDICATES POWER "D" INDICATES DATA

MOTOR

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

CONDUIT RUN CONCEALED IN CEILING OR WALL

CONDUIT RUN CONCEALED IN OR BELOW FLOOR

CONDUIT RUN EXPOSED ON CEILING OR WALL

ARROWHEAD DENOTES HOMERUN TO PANELBOARD. SLASH LINES INDICATE QUANTITY OF WIRES. NEUTRAL WIRE SHOWN AS A LONG LINE. PHASE WIRES AND SWITCH LEGS SHOWN AS SHORT LINES, AND GROUND WIRE SHOWN AS A LONG LINE WITH A DOT.

F1 LED LIGHTING FIXTURE. SIZE AS INDICATED ON SCHEDULE

LIGHTING FIXTURES: "F1" INDICATES LIGHTING FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DESCRIPTION AND MOUNTING.

"1" INDICATES CIRCUIT NUMBER(S) "2" INDICATES SWITCH CONTROL(S) "EM" EMERGENCY PANEL "X" INDICATES EXISTING CIRCUIT

EM/NL EMERGENCY/NIGHT LIGHT FIXTURE

EXIT SIGN

EMERGENCY BATTERY UNIT (EBU)

3W XXa LIGHT SWITCH, SINGLE POLE UNLESS NOTED OTHERWISE:

"XX" INDICATES CIRCUIT NUMBER "a" INDICATES LIGHTS CONTROLLED "DM" INDICATES DIMMER SWITCH "DLS" INDICATES DUAL LEVEL SWITCHING "EP" INDICATES EXPLOSION PROOF "K" INDICATES KEY OPERATED "PL" INDICATES PILOT LIGHT "WP" INDICATES WEATHERPROOF "2P" INDICATES 2 POLE "3P" INDICATES THREE POLE "3W" INDICATES THREE-WAY "4W" INDICATES FOUR-WAY

VACANCY SENSOR

DAYLIGHT SENSOR

TIME CLOCK

LIGHTING CONTACTOR

RELAY LIGHTING PANEL

CLOSED CIRCUIT TELEVISION CAMERA

DVS (DIGITAL VIDEO SURVEILLANCE) IP CAMERA SUBSCRIPT INDICATES THE FOLLOWING FOR WALL MOUNTED CCTV & DVS, (U.N.D.): "PTZ" PAN TILT ZOOM CAMERA "FX" FIXED CAMERA "I" WANDER DOME FOR INSIDE CAMERA "E" WANDER DOME FOR OUTSIDE CAMERA

WAP WIRELESS ACCESS POINT

FLOOR BOX WITH FLEXIBLE CONDUIT AND FINAL EQUIPMENT OR FURNITURE SYSTEM POWER CONNECTION

HDMI OUTLET

AUDIO/VIDEO CONNECTION

DATA OUTLET (SINGLE CONNECTION)

DATA OUTLET (MULTIPLE CONNECTIONS) (X) DENOTES NUMBER OF JACKS (DATA CONNECTIONS)

HEAT DETECTOR

DUCT DETECTOR

AUDIO/VISUAL DEVICE (CEILING MOUNTED)

VISUAL DEVICE (WALL MOUNTED)

NOTIFICATION APPLIANCE CONTROL PANEL

CEILING-MOUNTED DATA AND POWER

SPEAKER

CLOCK

WIREMOLD

ABBREVIATIONS

ABBREVIATIONS ARE ALPHABETICALLY LISTED BY DESCRIPTION.

| ABBREV. | DESCRIPTION |
|---------|-------------------------------------|
| AF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| ALM | ALARM |
| ACS | AUXILIARY CONTACTS |
| A | AMPERE |
| AIC | AMPERES INTERRUPTING CAPACITY |
| AL | ALUMINUM |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRING GAUGE |
| BAS | BAS CONTROL CONSOLE |
| BR | BRANCH |
| BRKR | BREAKER |
| BOB | BUILDING GROUND BOX |
| C.B. | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CEC | CHICAGO ELECTRICAL CODE |
| CECO | COMMONWEALTH EDISON COMP. |
| C | CONDUIT |
| CU | COPPER |
| HZ | HERTZ (CYCLES/SECOND) |
| DS | DISCONNECT SWITCH |
| E.C. | ELECTRICAL CONTRACTOR |
| ELEC | ELECTRIC |
| EM | EMERGENCY |
| EMT | ELECTRIC METALLIC TUBING |
| EX | EXISTING |
| FLUOR | FLUORESCENT |
| F | FUSE |
| F.S. | FUSED SWITCH |
| GEN | GENERATOR |
| GRD | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| JB | JUNCTION BOX |
| JM | CIRC. MILES WIRE CROSS SECTION AREA |
| KWH | KILOWATT-HOUR |
| KVA | KILOVOLT-AMPERE |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| MTR | MOTOR |
| MTD | MOUNTED |
| NEC | NATIONAL ELECTRICAL CODE |
| N | NEUTRAL |
| NTS | NOT TO SCALE |
| PNL | PANEL |
| PH | PHASE |
| PB | PULL BOX |
| RECP | RECEPTACLE |
| SP | SINGLE POLE |
| S | SWITCH |
| SWBD | SWITCHBOARD |
| SYM | SYMMETRICAL |
| SYS | SYSTEM |
| TK | TRANSFORMER |
| UL | UNDERWRITER'S LABORATORIES |
| UNG | UNGROUND |
| UNO | UNLESS NOTED OTHERWISE |
| VFD | VARIABLE FREQUENCY DRIVE |
| V | VOLT |
| VA | VOLT-AMPERE |
| WT | WATERIGHT |
| W | WATT |
| WP | WEATHERPROOF |

2018 CHICAGO ELECTRICAL CODE

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CITY COLLEGES OF CHICAGO
- TRUMAN COLLEGE

PROJECT NUMBER: 42242
PROJECT MANAGER:
ARCH/ENG:
SCALE:
DRAWN BY: QP
CHECKED BY: JL

ELECTRICAL
SYMBOLS, NOTES,
AND ABBREVIATIONS

E0-1

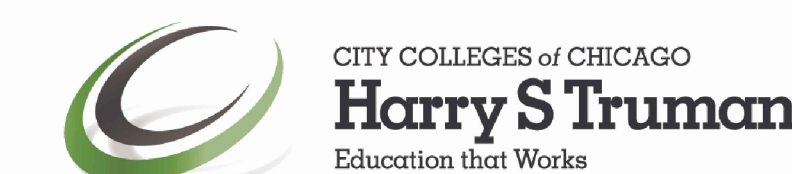
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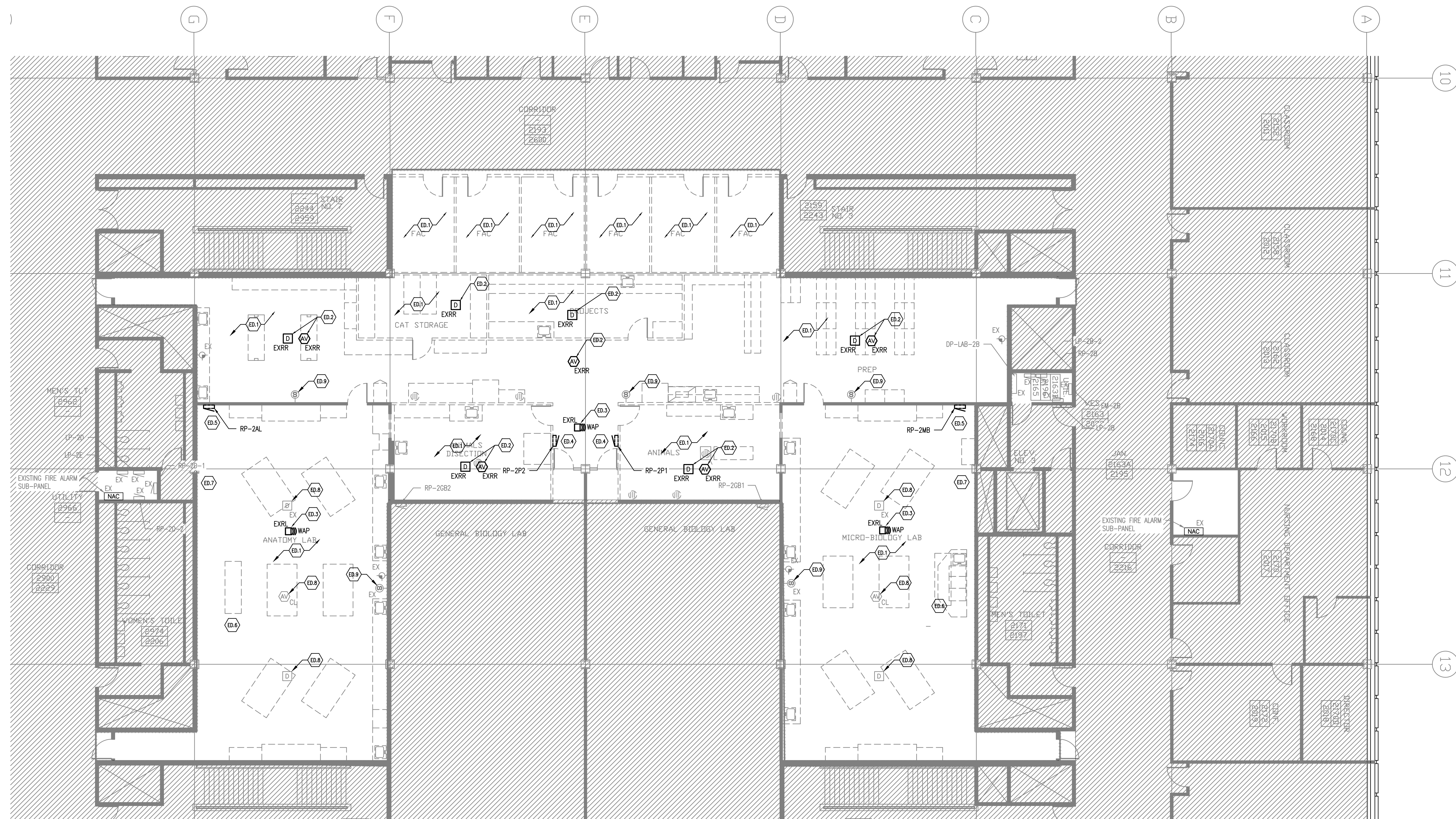
SEAL

GENERAL NOTES:

1. REFER TO DRAWING E0-1 FOR ELECTRICAL DEMO NOTES AND LEGENDS.

KEYED NOTES:

- (E1.1) ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING RECEPTACLE, POWER WIRING, TELE/DATA OUTLETS, AND OTHER ELECTRICAL CONNECTIONS SERVING THIS AREA. REMOVE ALL UNUSED CONDUIT AND WIRING BACK TO SOURCE OR CLOSEST UNAFFECTED J-BOX. FIELD VERIFY EXTENT OF REQUIRED DEMOLITION WORK.
- (E1.2) EXISTING FIRE ALARM DEVICE TO BE DISCONNECTED, CAREFULLY REMOVED AND STORED FOR RE-INSTALLATION. PROTECT EXISTING CONDUIT AND WIRING FOR REUSE. FUNCTIONALITY OF FIRE ALARM SYSTEM SHALL NOT BE COMPROMISED DURING CONSTRUCTION.
- (E1.3) EXISTING WIRELESS ACCESS POINT (WAP) TO BE RELOCATED, DISCONNECTED AND STORED FOR RE-INSTALLATION. REMOVE EXISTING CABLE BACK TO SOURCE. EXISTING CONDUIT TO BE REUSED. REFER TO DRAWING E2.1 FOR DEVICE NEW LOCATION.
- (E1.4) EXISTING ELECTRICAL PANEL TO BE REPLACED WITH NEW AND RELOCATED TO NEW LOCATION. REMOVE EXISTING WIRING BACK TO SOURCE BREAKER. EXISTING CONDUIT TO BE REUSED.
- (E1.5) EXISTING ELECTRICAL PANEL TO BE REPLACED WITH NEW IN PLACE. DISCONNECT AND REMOVE EXISTING PANEL. SALVAGE EXISTING FEEDER AND ALL EXISTING CIRCUITS BEING RECONNECTED.
- (E1.6) EXISTING PROJECTOR AND SCREEN TO BE DISCONNECTED AND RETURNED TO OWNER. REMOVE EXISTING CONDUIT AND WIRING BACK TO SOURCE.
- (E1.7) EXISTING AV EQUIPMENT TO BE DISCONNECTED AND RETURNED TO OWNER. REMOVE EXISTING CONDUIT AND WIRING BACK TO SOURCE.
- (E1.8) CEILING MOUNTED EXISTING FIRE ALARM DEVICES INSTALLED IN LAB TO REMAIN. PROTECT DURING CONSTRUCTION.
- (E1.9) EXISTING PA SPEAKER TO REMAIN. PROTECT DURING CONSTRUCTION.



1 ELECTRICAL SECOND FLOOR DEMO PLAN
 E1-1 1/8" = 1'-0"

| | |
|----------|---------------------|
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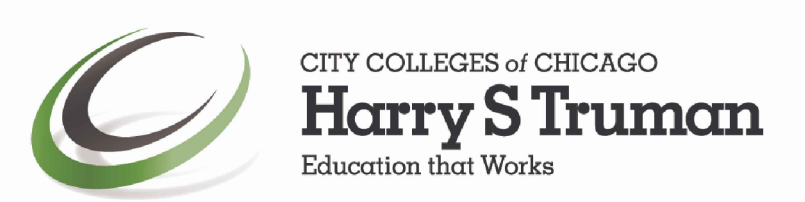
CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE
 PROJECT NUMBER: 42242
 PROJECT MANAGER:
 ARCH/ENG:
 SCALE:
 DRAWN BY: QP
 CHECKED BY: JL

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ELECTRICAL SECOND FLOOR DEMO PLAN
E1-1

GENERAL NOTES:

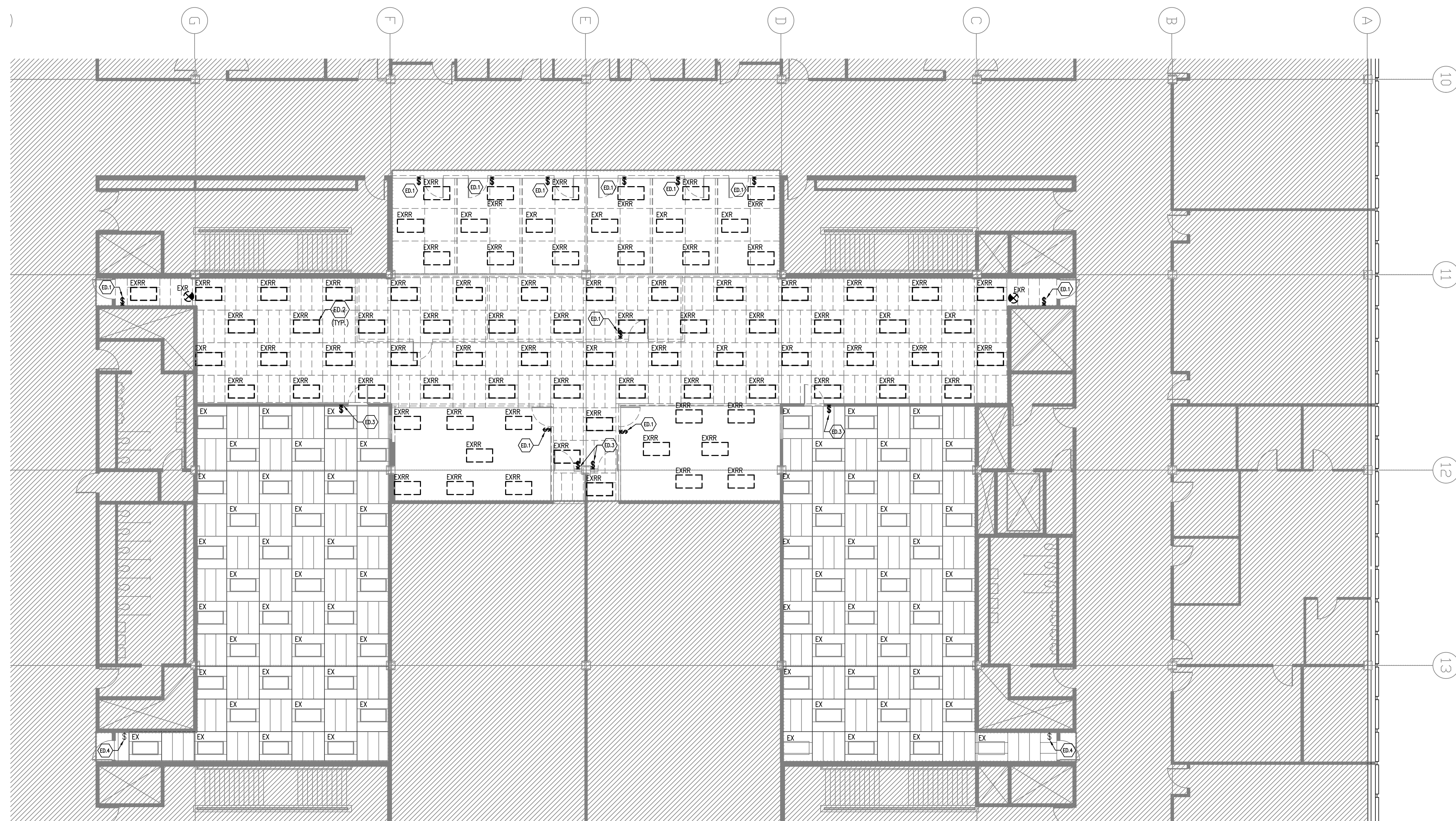
- REFER TO DRAWING E0-1 FOR ELECTRICAL DEMO NOTES AND LEGENDS.
- TURN OVER AN SURPLUS FIXTURES TO OWNER FOR STOCK.

ALTERNATE DEMO WORK NOTES:

- REFER TO DRAWING E1-2ALT FOR ALTERNATE DEMO WORK FOR EXISTING LIGHTING.

KEYED NOTES:

- (E1) ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING LIGHTING SWITCH SERVING THIS AREA.
- (E2) EXISTING LIGHTING FIXTURE TO BE REMOVED AND REINSTALLED, DISCONNECT, CAREFULLY REMOVE AND SALVAGE FOR RE-INSTALLATION, SALVAGE EXISTING CIRCUITING.
- (E3) LIGHT SWITCH TO BE RELOCATED TO ACCOMMODATE NEW LAYOUT. SEE DRAWING E2-2 FOR NEW LOCATION.
- (E4) LIGHT SWITCH TO REMAIN.



1 ELECTRICAL SECOND FLOOR LIGHTING DEMO PLAN
E1-2 1/8" = 1'-0"

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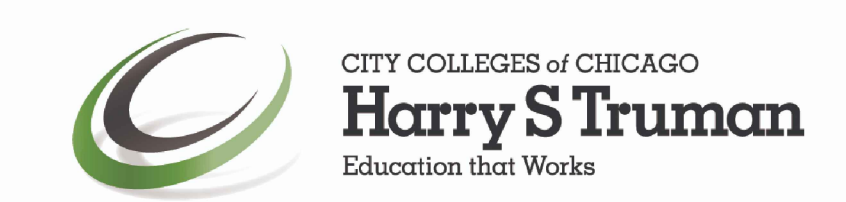
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ELECTRICAL SECOND FLOOR LIGHTING DEMO PLAN
E1-2

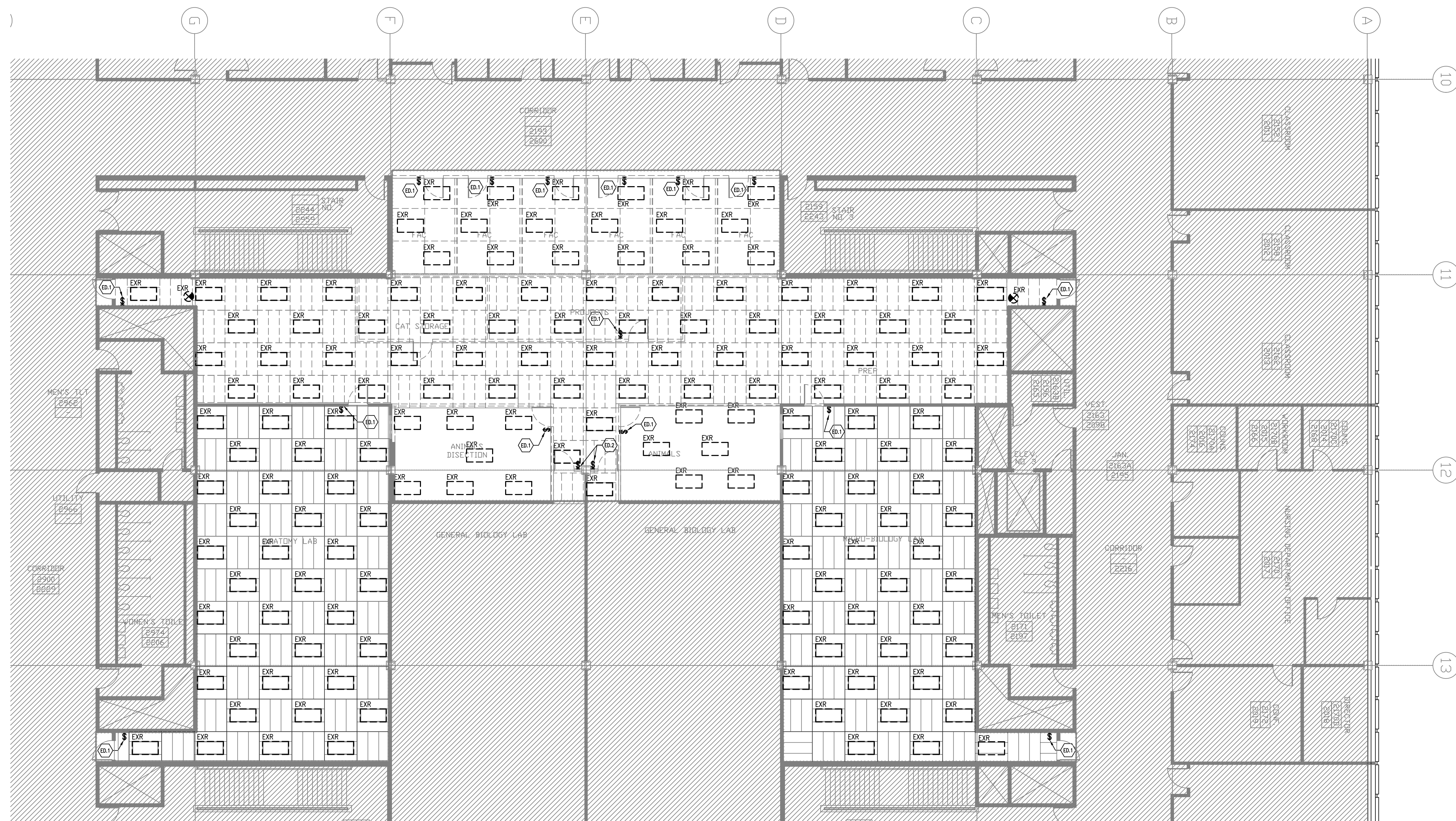
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GENERAL NOTES:

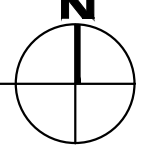
- REFER TO DRAWING E0-1 FOR ELECTRICAL DEMO NOTES AND LEGENDS.
- TURN OVER AN SURPLUS FIXTURES TO OWNER FOR STOCK.

KEYED NOTES:

- (E1) ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING LIGHTING CONTROLS SERVING THIS AREA.
- (E2) LIGHT SWITCH TO BE RELOCATED TO ACCOMMODATE NEW LAYOUT. SEE DRAWING E2-2ALT FOR NEW LOCATION.



1
E1-2
ELECTRICAL SECOND FLOOR LIGHTING DEMO PLAN
1/8" = 1'-0"



| | |
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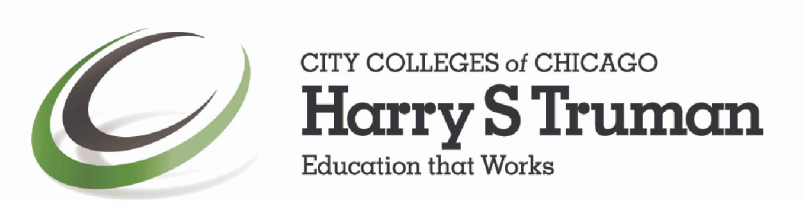
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ELECTRICAL SECOND FLOOR LIGHTING DEMO PLAN

E1-2ALT

SEAL

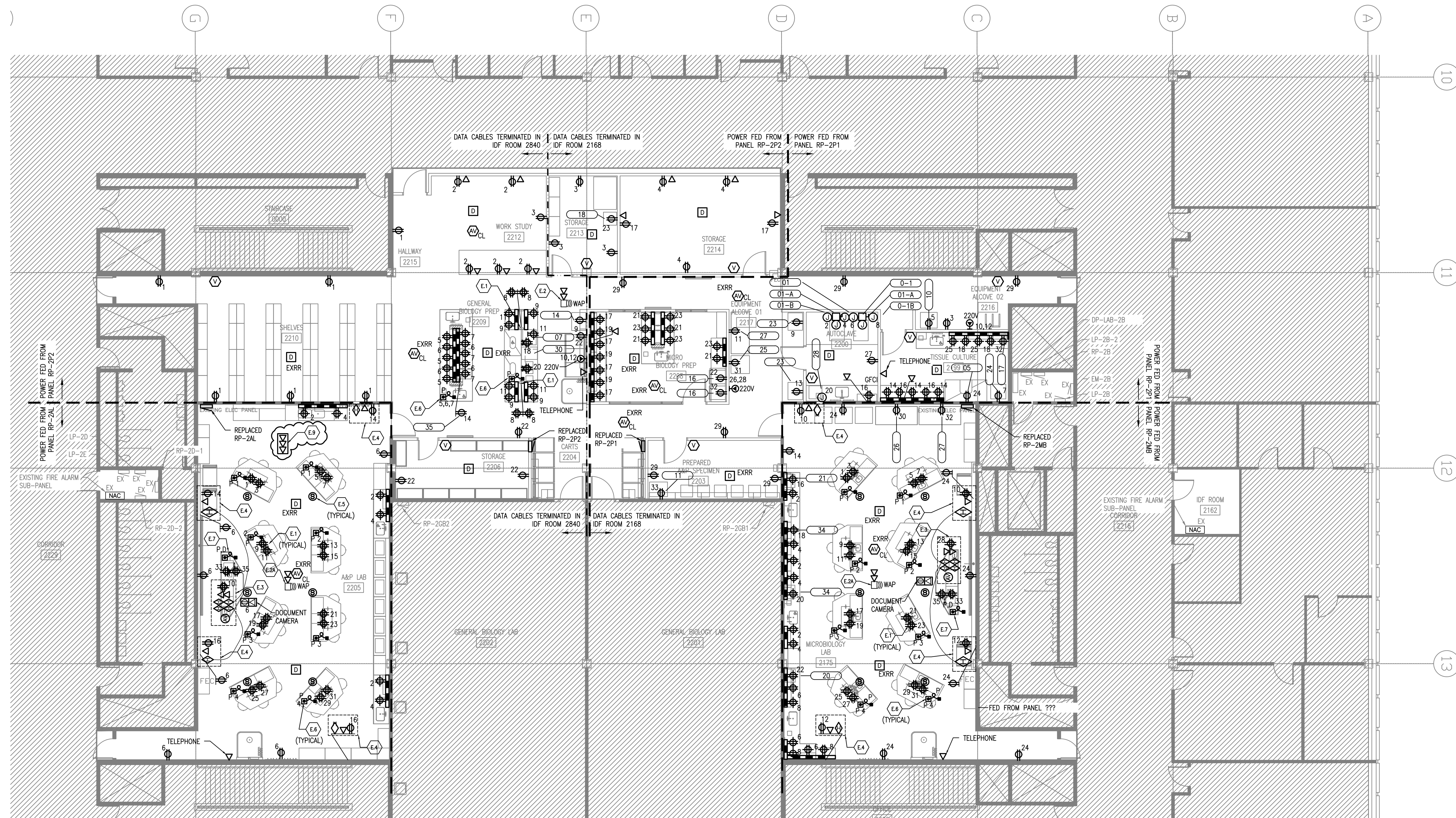
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GENERAL NOTES:

- REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES AND LEGENDS.
- ALL NEW TELEPHONE DATA JACKS SHALL BE AT 48" A.F.F.
- REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR WIREMOLD AND OTHER RECEPTACLES INSTALLATION HEIGHT.
- REFER TO PANEL SCHEDULE ON DRAWING E4-1 FOR INFORMATION REGARDING CIRCUITS WITH GFCI PROTECTION.
- PROVIDE INFRASTRUCTURE (J-BOXES, CONDUIT STUBBED ABOVE CEILING ETC.) AS INDICATED ON PLAN FOR DATA OUTLETS. VERIFY LOCATION WITH SCHOOL BEFORE ROUGH-IN. CABLE AND TERMINATION PROVIDED BY OWNER UNLESS DIRECTED OTHERWISE.
- COORDINATE EXACT LOCATION FOR POWER OUTLETS FOR AUDIO EQUIPMENT WITH AV CONSULTANT BEFORE ROUGH-IN.
- FIELD WIRE POWER AND DATA OUTLETS FOR FURNITURE SYSTEM PER CEC. PROVIDE CONDUIT, WIRES, RECEPTACLE, DATA OUTLETS AND REQUIRED HARDWARE FOR COMPLETE INSTALLATION.
- PROVIDE SURFACE MOUNTED WIREMOLD IN FINISHED SPACES WHERE CONDUIT CANNOT BE CONCEALED.
- ALL ELECTRICAL EQUIPMENT, DEVICES AND INSTALLATION METHODS IN OPEN PLENUM AREAS SHALL COMPLY WITH CEC.
- ALL NEW AND RELOCATED FIRE ALARM DEVICES SHALL BE CONNECTED TO EXISTING FIRE ALARM SUB-PANELS (NAC) SERVING THE AREA. NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING SYSTEM.
- PROVIDE 220V RECEPTACLE AS NOTED ON PLAN FOR FUTURE EQUIPMENT.

KEYED NOTES:

- E1 ELECTRICAL SERVICE PEDESTAL SINGLE FACE, DOUBLE GANG, FOUR OUTLETS
- E2 RE-INSTALL EXISTING WIRELESS ACCESS POINT (WAP) IN NEW PLACE. ELECTRICAL CONTRACTOR TO PROVIDE NEW CAT6 AND EXTEND EXISTING CONDUIT TO NEW LOCATION. TEST SYSTEM AFTER WORK IS COMPLETED.
- E2A NEW WIRELESS ACCESS POINT (WAP). ELECTRICAL CONTRACTOR TO PROVIDE NEW (2) CONNECTION POINTS AND CONDUIT WITH CAT6 CABLES TERMINATED IN IDF ROOM SERVING THE AREA. WORK COORDINATE WITH IT DEPARTMENT.
- E3 POWER/DATA/AV CONNECTIONS FOR INSIDE VENTED CABINET FOR COMPUTER AND AV RACK. CONDUIT ROUTING AND CABLE TYPE FOR AV CONNECTIONS COORDINATE WITH SCHOOL IT DEPARTMENT.
- E4 POWER/DATA/AV CONNECTION FOR WALL MOUNTED AV EQUIPMENT. COORDINATE WITH ARCHITECT EXACT HEIGHT.
- E5 PROVIDE JUNCTION BOXES FOR ALL SPEAKERS. CONDUIT ROUTING AND CABLE TYPE FOR AV CONNECTIONS COORDINATE WITH SCHOOL IT DEPARTMENT.
- E6 PROVIDE 2-GANG RECESSED FLOOR BOX FOR FURNITURE POWER FEED. EXACT LOCATION COORDINATE WITH FURNITURE VENDOR.
- E7 PROVIDE 3-GANG RECESSED FLOOR BOX FOR FURNITURE POWER/DATA/AV FEEDS. EXACT LOCATION COORDINATE WITH FURNITURE VENDOR. PROVIDE TWO (2) 2" CONDUITS FOR COMMUNICATIONS IN SLAB TO THE NEAREST WALL AND STUB UP ABOVE THE CEILING.
- E8 PROVIDE THREE (3) DATA NETWORK PORTS IN THE CEILING FOR CEILING ACCESS POINTS



1 ELECTRICAL SECOND FLOOR NEW WORK PLAN
E2-1 1/8" = 1'-0"

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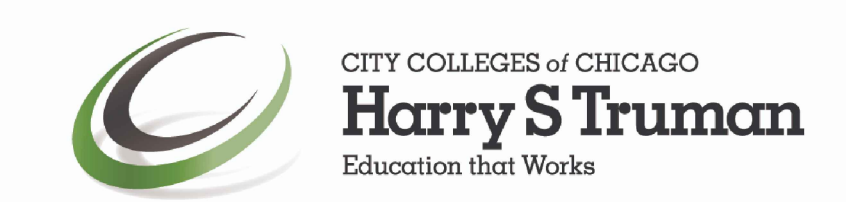
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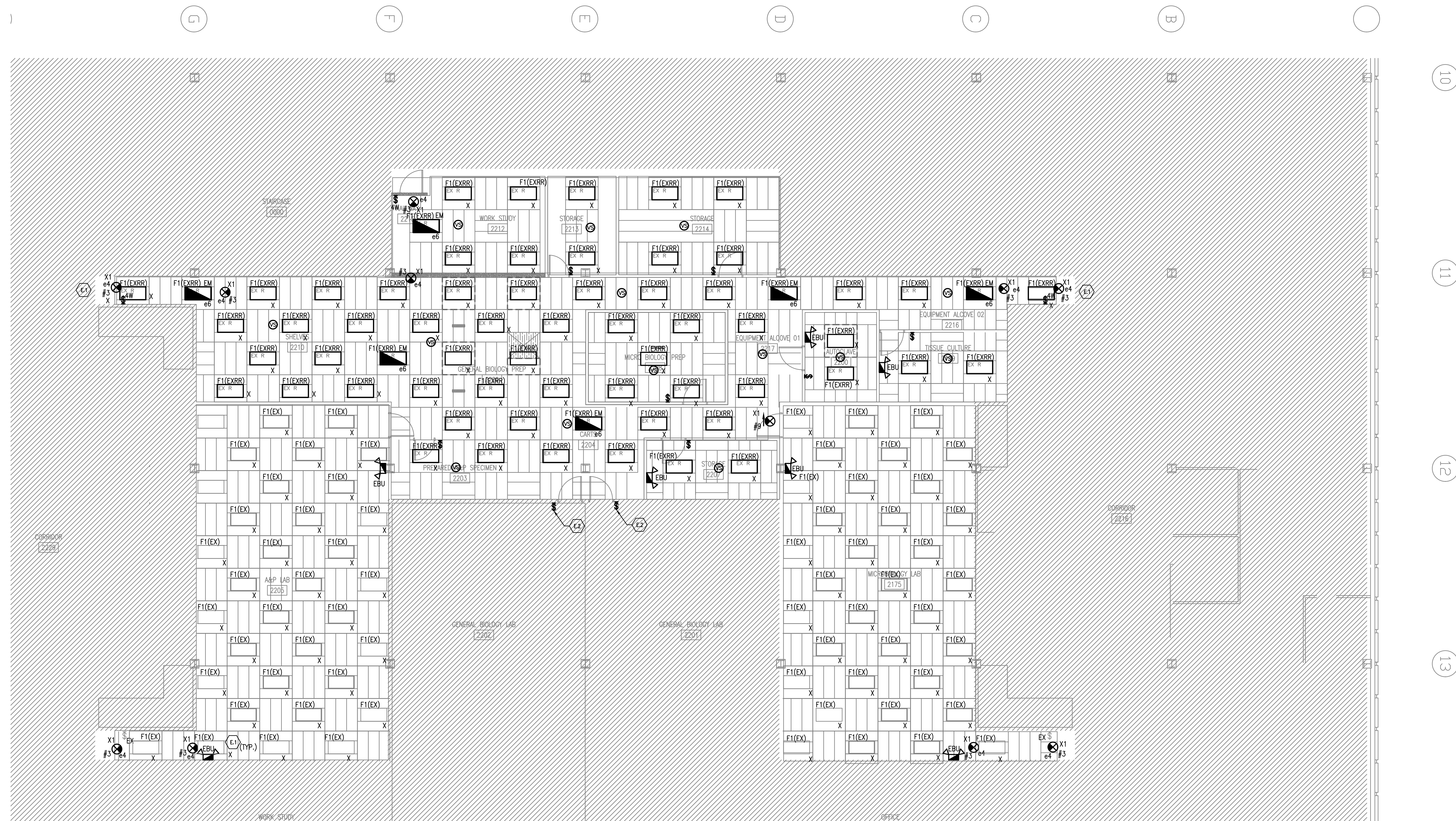
ELECTRICAL SECOND FLOOR NEW WORK PLAN
E2-1

GENERAL NOTES:

1. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES AND LEGENDS.
2. ALL EXISTING 2X4 RECESSED LIGHTING FIXTURES IN SCOPE OF WORK AREA SHALL BE CLEANED AND ALL LAMPS SHALL BE REPLACED WITH NEW. REPLACE ANY DEFECTIVE BALLAST AND PRISMATIC LENSES. FIELD VERIFY LAMP QUANTITY AND WATTAGE. NEW LAMPS SHALL HAVE 3500K TEMPERATURE.
3. EMERGENCY BATTERY UNIT SHALL BE CONNECTED TO NON-EMERGENCY LOCAL CIRCUIT AHEAD OF SWITCH.

KEYED NOTES:

- E1 ALL EXIT SIGN AND EMERGENCY LIGHTING FIXTURE SHALL BE FED FROM EXITING PANEL EM-2B LOCATED IN ELEC RM NEXT TO MICROBIOLOGY LAB.
- E2 RELOCATED LIGHT SWITCH. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAKE FINAL CONNECTION



1 ELECTRICAL SECOND FLOOR CEILING LIGHTING NEW WORK PLAN
 E2-1 1/8" = 1'-0"

| | | |
|-----|----------|---------------------|
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 SCALE:
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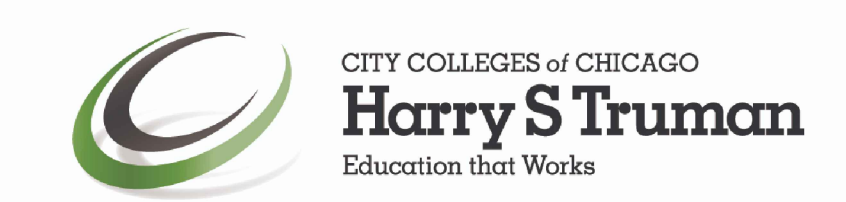
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ELECTRICAL SECOND FLOOR CEILING LIGHTING NEW WORK PLAN

E2-2

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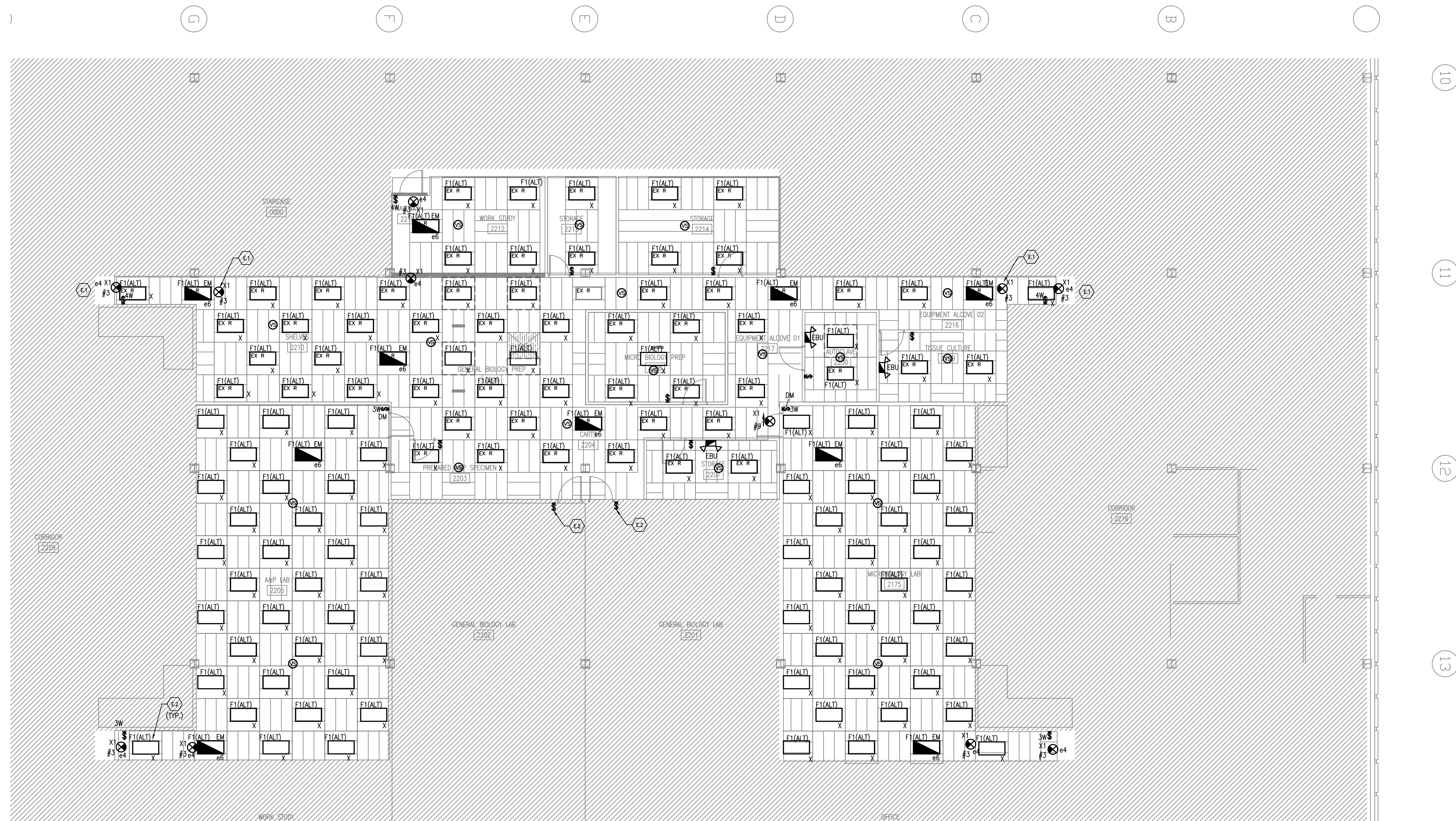
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GENERAL NOTES:

- REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES AND LEGENDS.
- ALL RECESSED 2x4 LIGHT FIXTURES SHALL BE REPLACED WITH NEW LED LIGHTING FIXTURE F1(ALT). REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E4-1 FOR ADDITIONAL INFORMATION.
- PROVIDE NEW LOW VOLTAGE LIGHTING CONTROLS COMPLYING WITH IECC 2018 ENERGY CODE.
- ELECTRICAL CONTRACTOR TO REUSE AND RECONNECT EXISTING LIGHTING CIRCUITS BASED ON NEW LAYOUT AND CONTROL SCHEME. MAKE REQUIRED REPAIRS AND REWIRING. "X" NEXT FIXTURE ON PLAN DENOTES EXISTING CIRCUIT.
- IN LABS PROVIDE NEW 4-BUTTON LOW VOLTAGE SWITCHES. SCENES SETTINGS COORDINATE WITH SCHOOL.
- ALL EXIT SIGN AND EMERGENCY LIGHTING FIXTURE SHALL BE FED FROM EXISTING PANEL EM-28 LOCATED IN ELEC RM NEXT TO MICROBIOLOGY LAB.
- EMERGENCY BATTERY UNIT SHALL BE CONNECTED TO NON-EMERGENCY LOCAL CIRCUIT AHEAD OF SWITCH.

NOTED NOTES:

- (E1) RE-CONNECT NEW EXIT SIGN TO EXISTING FIXTURE J-BOX WITH NEW WIP. EXISTING EM CIRCUIT SERVING THE AREA. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAKE FINAL CONNECTION.
- (E2) RELOCATED LIGHT SWITCH. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAKE FINAL CONNECTION.



1 ELECTRICAL SECOND FLOOR CEILING LIGHTING NEW WORK PLAN
 E2-1 1/8" = 1'-0"

| | | |
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 CHECKED BY: JL

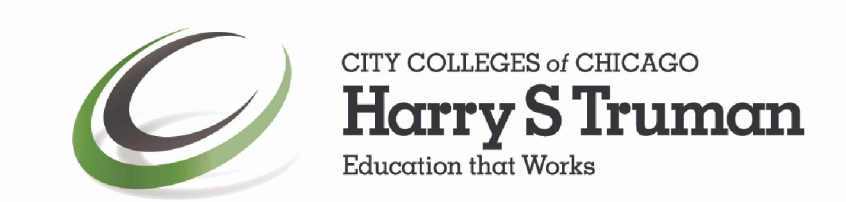
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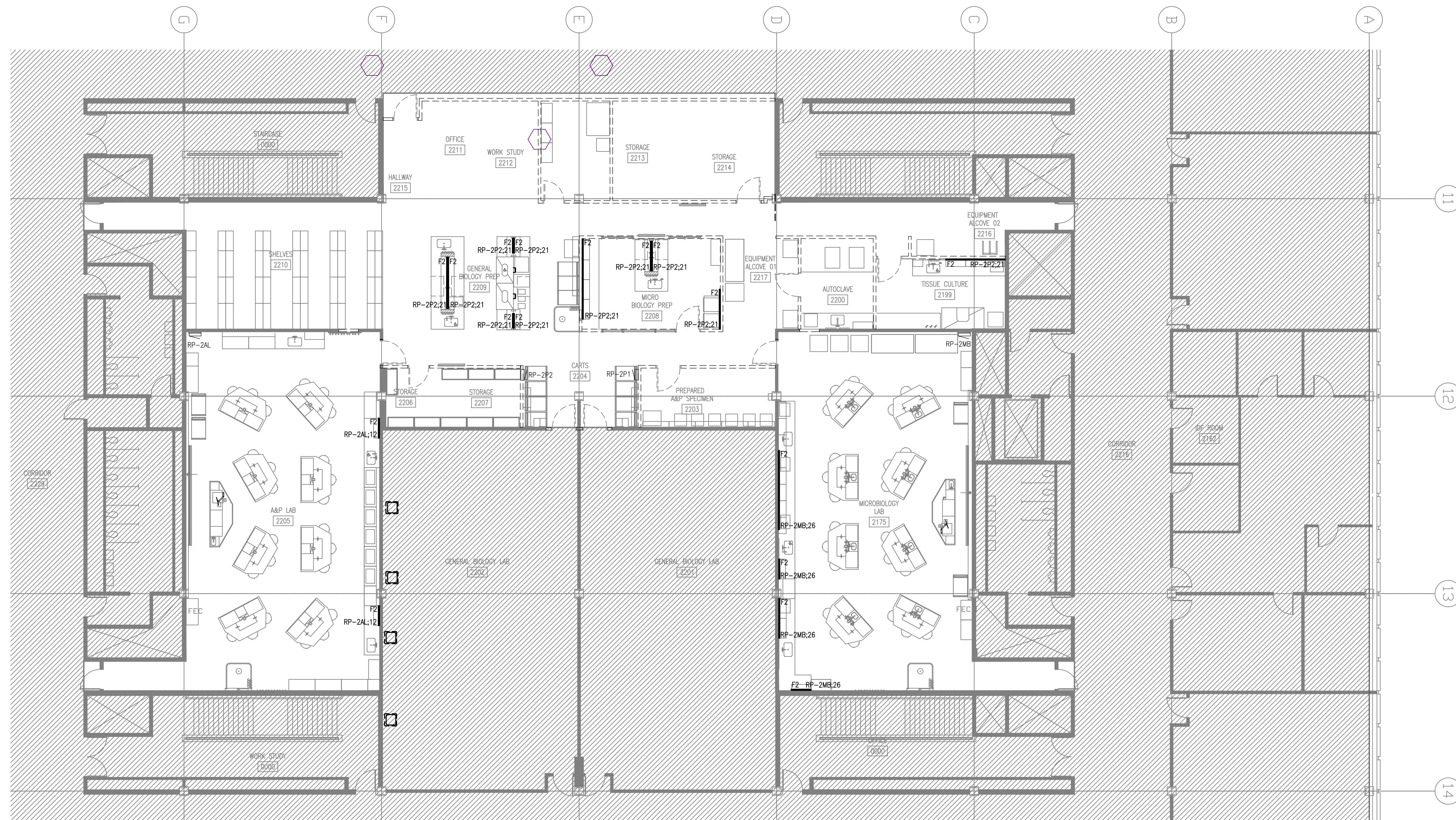
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ALTERNATE ELECTRICAL
 SECOND FLOOR CEILING
 LIGHTING NEW WORK PLAN
E2-2ALT

GENERAL NOTES:

1. REFER TO DRAWING E0-1 FOR GENERAL ELECTRICAL NOTES.
2. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E4-1 FOR ADDITIONAL INFORMATION.



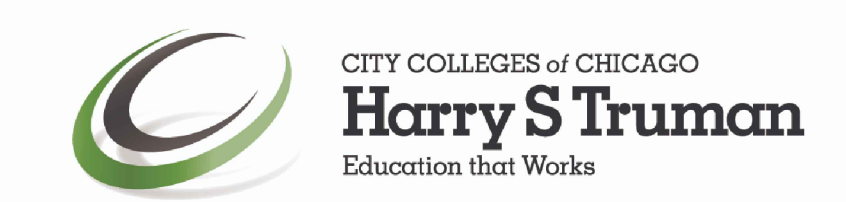
1 ELECTRICAL SECOND FLOOR UNDER CABINET LIGHTING NEW WORK PLAN
 E2-1 1/8" = 1'-0"

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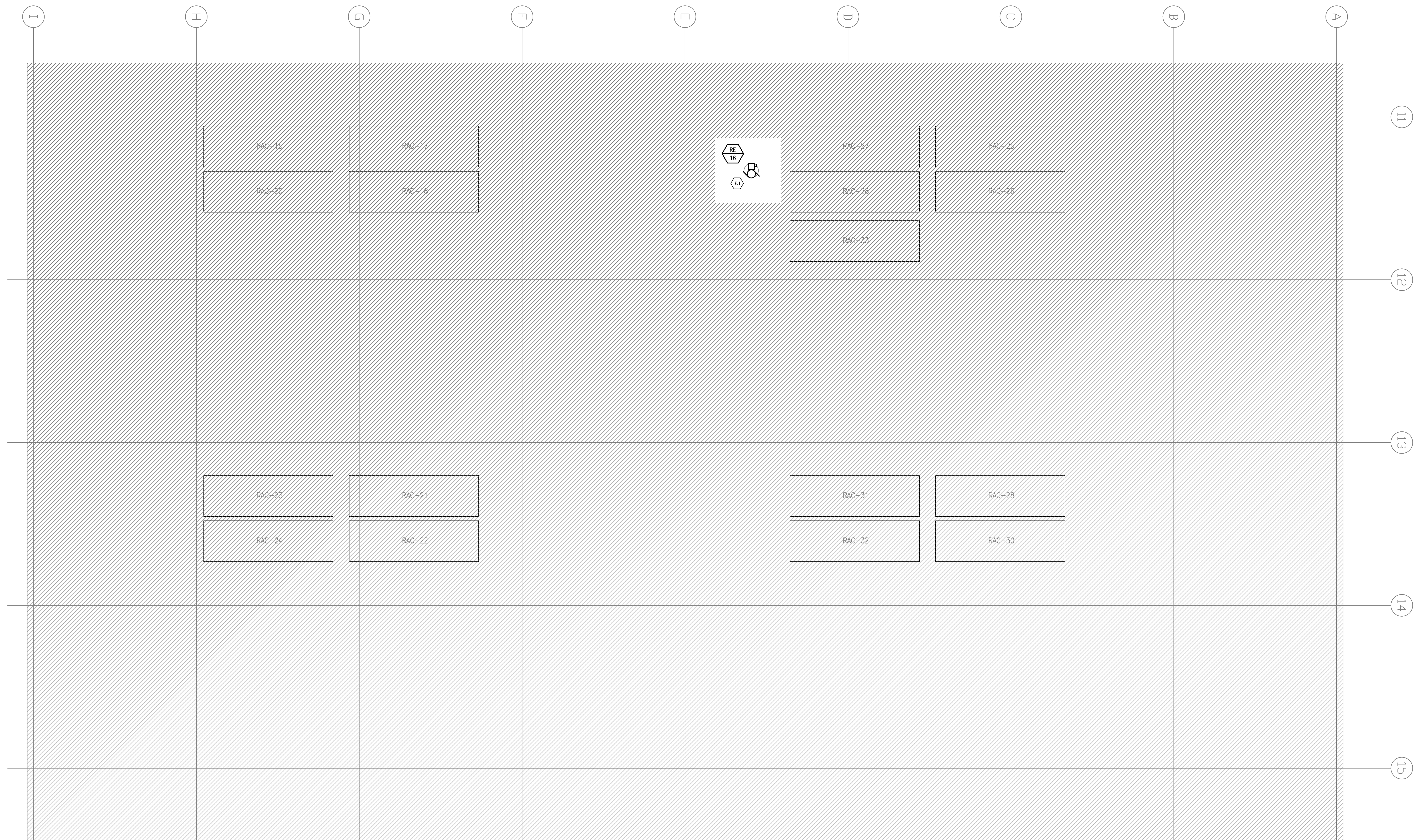


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ELECTRICAL SECOND FLOOR UNDER CABINET LIGHTING NEW WORK PLAN
E2-3



1
E2-1 1/8" = 1'-0"

ELECTRICAL NOTES:
1. REFER TO SHEET E4-1 FOR WIRING AND PANEL CONNECTIONS.

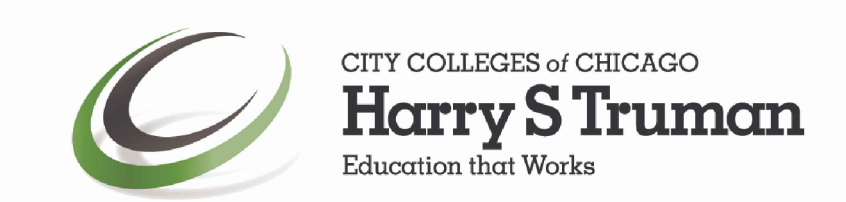
KEYED NOTES:
 EXISTING EXHAUST FAN TO BE REPLACED WITH NEW. ELECTRICAL CONTRACTOR TO DISCONNECT AND EXISTING CIRCUIT TO BE REUSED. RECONNECT CIRCUIT WHEN NEW EQUIPMENT IS IN PLACE. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED TO MAKE FINAL CONNECTION. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

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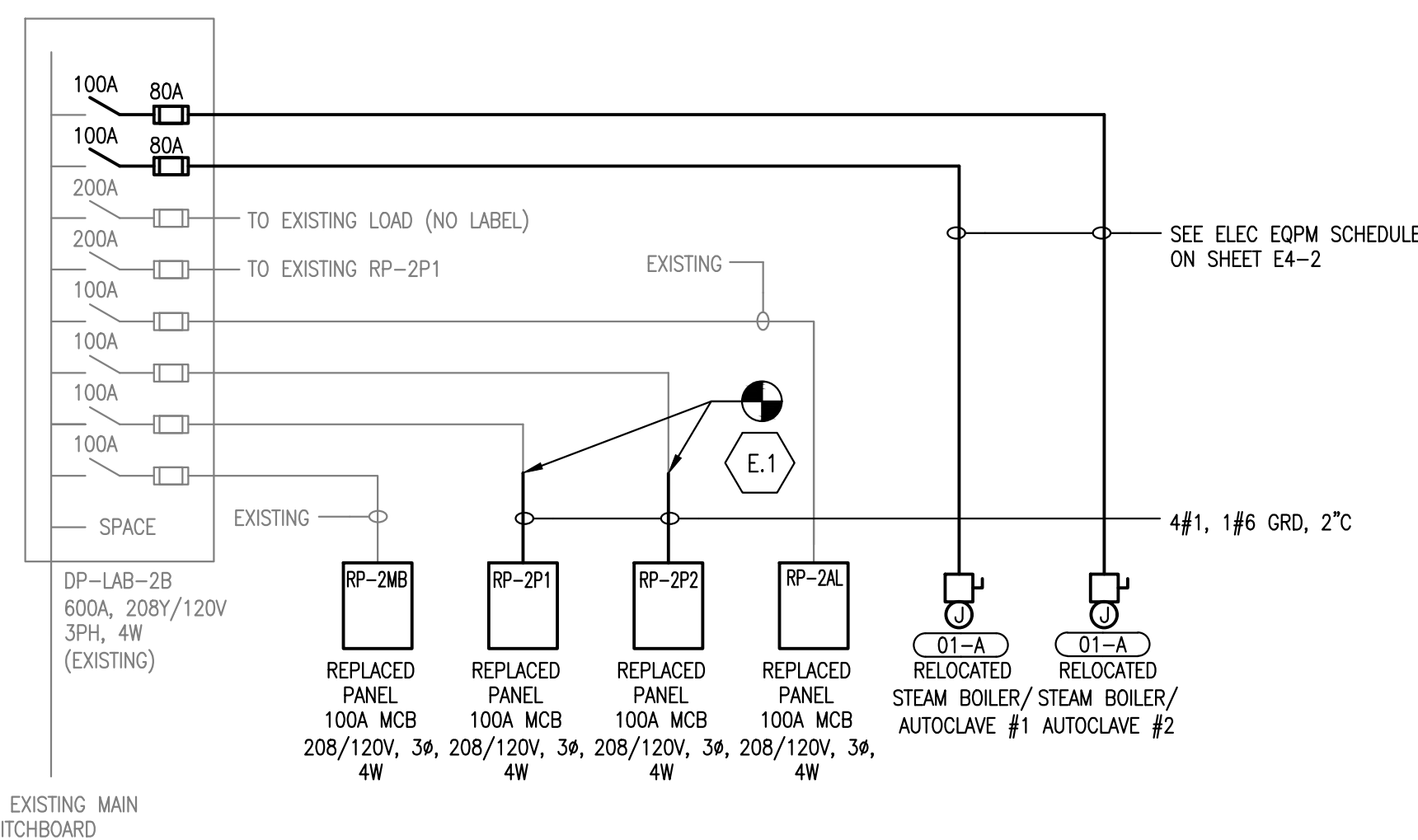
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ELECTRICAL ROOF
NEW WORK PLAN
E3-1

| DISTRIBUTION PANEL (DP-LAB-2B) LOAD CALCULATION | |
|---|-----------|
| EXISTING LOAD: | 35050 VA |
| NEW LOAD: | |
| - RP-2MB | 23700 VA |
| - RP-2P1 | 23940 VA |
| - RP-2P2 | 18160 VA |
| - RP-2AL | 10680 VA |
| - AUTOCLAVE #1 | 24000 VA |
| - AUTOCLAVE #1 | 24000 VA |
| TOTAL CONNECTED LOAD | 196530 VA |
| TOTAL CALCULATED AMPERAGE | 473.6 AMP |

EXISTING DISTRIBUTION PANEL CAN ADOPT ADDITIONAL LOAD



KEYED NOTES:

Ⓜ EXTEND EXISTING CONDUIT AND PULL NEW WIRES FROM SOURCE TO NEW PANEL.

1 PARTIAL SINGLE LINE DIAGRAM
E4-1 NTS

| PANELBOARD: RP-2AL | | LOCATION: R&P LAB 2205 | | | | | | |
|---|----------|------------------------|-------|---------|-------|------------------------|------|-------|
| VOLTAGE: [X] 208Y/120V, 3ø, 4 W, S/N [] 480Y/277V, 3ø, 4 W, S/N | | ENCLOSURE: NEMA 1 | | | | | | |
| MAINS: 100 AMPERES [] MAIN LUGS ONLY [] MAIN FUSIBLE SWITCH [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: 225A | | BRANCHES: 22K AIC | | | | | | |
| INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: 22K AIC | | ENCLOSURE: NEMA 1 | | | | | | |
| MOUNTING: [] SURFACE [] FLUSH [] BETWEEN FLANGES OF A COLUMN | | ENCLOSURE: NEMA 1 | | | | | | |
| SERVICES | VOLTAGMS | CKT NO. | A B C | CKT NO. | A B C | SERVICES | | |
| RECEPTACLES (GFCI) | 360 | 1 | 20 | 2 | 540 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 3 | 20 | 4 | 540 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 5 | 20 | 6 | 1080 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 7 | 20 | 8 | - | SPARE | | |
| RECEPTACLES (GFCI) | 360 | 9 | 20 | 10 | 1000 | AV RACK INSIDE CABINET | | |
| RECEPTACLES (GFCI) | 360 | 11 | 20 | 12 | 50 | UNDERCABINET LIGHTING | | |
| RECEPTACLES (GFCI) | 360 | 13 | 20 | 14 | 360 | TV DISPLAY | | |
| RECEPTACLES (GFCI) | 360 | 15 | 20 | 16 | 360 | TV DISPLAY | | |
| RECEPTACLES (GFCI) | 360 | 17 | 20 | 18 | - | SPARE | | |
| RECEPTACLES (GFCI) | 360 | 19 | 20 | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 21 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 23 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 25 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 27 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 29 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 31 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 33 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 35 | - | - | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 37 | - | - | - | SPACE | | |
| SPACE | - | 39 | - | - | - | SPACE | | |
| SPACE | - | 41 | - | - | - | SPACE | | |
| TOTAL | 1800 | 2140 | 1060 | | 2160 | 2440 | 1080 | TOTAL |

* - PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION

Ⓜ A 3960
Ⓜ B 4580
Ⓜ C 2140
TOTAL 10680 VOLTAMPS

TOTAL CONNECTED LOAD: 29A

| PANELBOARD: RP-2P1 | | LOCATION: ROOM 2204 | | | | | | |
|---|----------|---------------------|-------|---------|-------|---------------------------------|------|-------|
| VOLTAGE: [X] 208Y/120V, 3ø, 4 W, S/N [] 480Y/277V, 3ø, 4 W, S/N | | ENCLOSURE: NEMA 1 | | | | | | |
| MAINS: 100 AMPERES [] MAIN LUGS ONLY [] MAIN FUSIBLE SWITCH [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: 225A | | BRANCHES: 22K AIC | | | | | | |
| INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: 22K AIC | | ENCLOSURE: NEMA 1 | | | | | | |
| MOUNTING: [] SURFACE [X] FLUSH [] BETWEEN FLANGES OF A COLUMN | | ENCLOSURE: NEMA 1 | | | | | | |
| SERVICES | VOLTAGMS | CKT NO. | A B C | CKT NO. | A B C | SERVICES | | |
| SPARE | - | 1 | 20 | 2 | 500 | AUTOCLAVE (01) | | |
| RECEPTACLE | 180 | 3 | 20 | 4 | 450 | CONTROLLER FOR AUTOCLAVE (01-B) | | |
| FREEZER (10) | 1000 | 5 | 20 | 6 | 500 | AUTOCLAVE (01) | | |
| REFRIGERATOR (24) | 720 | 7 | 20 | 8 | 450 | CONTROLLER FOR AUTOCLAVE (01-B) | | |
| REFRIGERATOR (23) | 1200 | 9 | 20 | 10 | 500 | 220V RECEPTACLE | | |
| REFRIGERATOR DELI (27) | 1200 | 11 | 20 | 12 | 500 | 220V RECEPTACLE | | |
| REFRIGERATOR (23) | 1200 | 13 | 20 | 14 | 720 | RECEPTACLES (GFCI) | | |
| SPARE | - | 15 | 20 | 16 | 720 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 1080 | 17 | 20 | 18 | 360 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 1080 | 19 | 20 | 20 | 800 | WATER POLISHER | | |
| RECEPTACLES (GFCI) | 1080 | 21 | 20 | 22 | 750 | INCUBATOR (16) | | |
| RECEPTACLES (GFCI) | 900 | 23 | 20 | 24 | 500 | BIO SAFETY CABINET (05) | | |
| RECEPTACLES (GFCI) | 900 | 25 | 20 | 26 | 500 | 220V RECEPTACLE | | |
| RECEPTACLES (GFCI) | 1080 | 27 | 20 | 28 | 500 | AV SYSTEM EQUIPMENT RACK | | |
| RECEPTACLES (GFCI) | 1080 | 29 | 20 | 30 | 1000 | INCUBATOR (17) | | |
| REFRIGERATOR (25) | 1200 | 31 | 20 | 32 | 750 | SPARE | | |
| FREEZER (11) | 1000 | 33 | 20 | 34 | - | SPACE | | |
| SPARE | - | 35 | 20 | 36 | - | SPACE | | |
| SPACE | - | 37 | 20 | 38 | - | SPACE | | |
| SPACE | - | 39 | 20 | 40 | - | SPACE | | |
| SPACE | - | 41 | 20 | 42 | - | SPACE | | |
| TOTAL | 5180 | 5360 | 4900 | | 2970 | 3170 | 2360 | TOTAL |

* - PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION

Ⓜ A 8150
Ⓜ B 8530
Ⓜ C 7280
TOTAL 23940 VOLTAMPS

TOTAL CONNECTED LOAD: 66.5A

| PANELBOARD: RP-2P2 | | LOCATION: ROOM 2204 | | | | | | |
|---|----------|---------------------|-------|---------|-------|-------------------------------|------|-------|
| VOLTAGE: [X] 208Y/120V, 3ø, 4 W, S/N [] 480Y/277V, 3ø, 4 W, S/N | | ENCLOSURE: NEMA 1 | | | | | | |
| MAINS: 100 AMPERES [] MAIN LUGS ONLY [] MAIN FUSIBLE SWITCH [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: 225A | | BRANCHES: 22K AIC | | | | | | |
| INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: 22K AIC | | ENCLOSURE: NEMA 1 | | | | | | |
| MOUNTING: [] SURFACE [X] FLUSH [] BETWEEN FLANGES OF A COLUMN | | ENCLOSURE: NEMA 1 | | | | | | |
| SERVICES | VOLTAGMS | CKT NO. | A B C | CKT NO. | A B C | SERVICES | | |
| RECEPTACLES | 1080 | 1 | 20 | 2 | 720 | RECEPTACLES | | |
| RECEPTACLES (GFCI) | 1080 | 3 | 20 | 4 | 720 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 900 | 5 | 20 | 6 | 900 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 720 | 7 | 20 | 8 | 1440 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 720 | 9 | 20 | 10 | 500 | 220V RECEPTACLE | | |
| RECEPTACLES (GFCI) | 720 | 11 | 20 | 12 | 500 | 220V RECEPTACLE | | |
| SPARE | - | 13 | 20 | 14 | 1020 | SPARE | | |
| SPARE | - | 15 | 20 | 16 | - | SPARE | | |
| RECEPTACLES | 500 | 17 | 20 | 18 | - | 1300 CENTRIFUGE (07) | | |
| RECEPTACLES | 720 | 19 | 20 | 20 | 600 | SHAKER (30) | | |
| UNDERCABINET LIGHTING | 300 | 21 | 20 | 22 | 720 | RECEPTACLES | | |
| LIQUID NITROGEN TANK | 500 | 23 | 20 | 24 | - | 1000 AV SYSTEM EQUIPMENT RACK | | |
| SPARE | - | 25 | 20 | 26 | - | SPARE | | |
| SPARE | - | 27 | 20 | 28 | - | SPARE | | |
| SPARE | - | 29 | 20 | 30 | - | SPARE | | |
| SPARE | - | 31 | 20 | 32 | - | SPACE | | |
| SPACE | - | 33 | 20 | 34 | - | SPACE | | |
| SPACE | - | 35 | 20 | 36 | - | SPACE | | |
| SPACE | - | 37 | 20 | 38 | - | SPACE | | |
| SPACE | - | 39 | 20 | 40 | - | SPACE | | |
| SPACE | - | 41 | 20 | 42 | - | SPACE | | |
| TOTAL | 3520 | 2800 | 1400 | | 3780 | 2980 | 3700 | TOTAL |

* - PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION

Ⓜ A 7300
Ⓜ B 5760
Ⓜ C 5100
TOTAL 18160 VOLTAMPS

TOTAL CONNECTED LOAD: 50A

| PANELBOARD: RP-2MB | | LOCATION: 2175 | | | | | | |
|---|----------|-------------------|-------|---------|-------|------------------------------|------|-------|
| VOLTAGE: [X] 208Y/120V, 3ø, 4 W, S/N [] 480Y/277V, 3ø, 4 W, S/N | | ENCLOSURE: NEMA 1 | | | | | | |
| MAINS: 100 AMPERES [] MAIN LUGS ONLY [] MAIN FUSIBLE SWITCH [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: 225A | | BRANCHES: 22K AIC | | | | | | |
| INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: 22K AIC | | ENCLOSURE: NEMA 1 | | | | | | |
| MOUNTING: [X] SURFACE [] FLUSH [] BETWEEN FLANGES OF A COLUMN | | ENCLOSURE: NEMA 1 | | | | | | |
| SERVICES | VOLTAGMS | CKT NO. | A B C | CKT NO. | A B C | SERVICES | | |
| RECEPTACLES (GFCI) | 360 | 1 | 20 | 2 | 1080 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 3 | 20 | 4 | 1080 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 5 | 20 | 6 | 1080 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 7 | 20 | 8 | 1080 | RECEPTACLES (GFCI) | | |
| RECEPTACLES (GFCI) | 360 | 9 | 20 | 10 | 700 | TV DISPLAY | | |
| RECEPTACLES (GFCI) | 360 | 11 | 20 | 12 | 700 | TV DISPLAY | | |
| RECEPTACLES (GFCI) | 360 | 13 | 20 | 14 | 1000 | DEDICATED CIRCUIT | | |
| RECEPTACLES (GFCI) | 360 | 15 | 20 | 16 | 1000 | MICROWAVE (21) | | |
| RECEPTACLES (GFCI) | 360 | 17 | 20 | 18 | 1020 | WATER BATH (34) | | |
| RECEPTACLES (GFCI) | 360 | 19 | 20 | 20 | 1020 | WATER BATH (34) | | |
| RECEPTACLES (GFCI) | 360 | 21 | 20 | 22 | 1000 | MICROWAVE (20) | | |
| RECEPTACLES (GFCI) | 360 | 23 | 20 | 24 | 900 | RECEPTACLES | | |
| RECEPTACLES (GFCI) | 360 | 25 | 20 | 26 | 150 | UNDERCABINET LIGHTING | | |
| RECEPTACLES (GFCI) | 360 | 27 | 20 | 28 | 1000 | AV RACK INSIDE CABINET | | |
| RECEPTACLES (GFCI) | 360 | 29 | 20 | 30 | 1000 | REFRIGERATOR DELI GLASS (28) | | |
| RECEPTACLES (GFCI) | 360 | 31 | 20 | 32 | 1000 | REFRIGERATOR DELI GLASS (27) | | |
| RECEPTACLES (GFCI) | 360 | 33 | 20 | 34 | - | SPACE | | |
| RECEPTACLES (GFCI) | 360 | 35 | 20 | 36 | - | SPACE | | |
| SPARE | - | 37 | 20 | 38 | - | SPACE | | |
| SPARE | - | 39 | 20 | 40 | - | SPACE | | |
| SPACE | - | 41 | 20 | 42 | - | SPACE | | |
| TOTAL | 4160 | 4160 | 3720 | | 4180 | 4140 | 3340 | TOTAL |

* - PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION

Ⓜ A 8340
Ⓜ B 8300
Ⓜ C 7080
TOTAL 23700 VOLTAMPS

TOTAL CONNECTED LOAD: 65.7A

| PANELBOARD: EXISTING EM-2B | | LOCATION: 2165 | | | | | | |
|--|----------|----------------|-------|---------|-------|---------------------|-----|-------|
| VOLTAGE: [X] 208Y/120V, 3ø, 4 W, S/N [] 480Y/277V, 3ø, 4 W, S/N | | ENCLOSURE: | | | | | | |
| MAINS: 150 AMPERES [] MAIN LUGS ONLY [] MAIN FUSIBLE SWITCH [X] MAIN CIRCUIT BREAKER TRIP/FUSE RATING: | | BRANCHES: | | | | | | |
| INTERRUPTING RATINGS, SYMMETRICAL AMPERES: MAIN BREAKER: | | ENCLOSURE: | | | | | | |
| MOUNTING: [] SURFACE [] FLUSH [] BETWEEN FLANGES OF A COLUMN | | ENCLOSURE: | | | | | | |
| SERVICES | VOLTAGMS | CKT NO. | A B C | CKT NO. | A B C | SERVICES | | |
| EXIT & STAIR SIGNS | 100 | 11 | 15 | 15 | 2 | EXISTING | | |
| EAST & SOUTH CORRIDOR LIGHTS | 500 | 3 | 15 | 20 | 4 | NEW EXIT SIGNS | | |
| WEST & SOUTH CORR. LIGHTS | 600 | 5 | 15 | 20 | 6 | 400 NEW EM LIGHTING | | |
| CENTER CORRIDOR LIGHTS | 500 | 7 | 15 | 20 | 8 | - | | |
| - | - | 9 | 20 | 20 | 10 | - | | |
| - | - | 11 | 20 | 20 | 12 | - | | |
| - | - | 13 | 20 | 20 | 14 | - | | |
| - | - | 15 | 20 | 20 | 16 | - | | |
| - | - | 17 | 20 | 20 | 18 | - | | |
| - | - | 19 | 20 | 20 | 20 | - | | |
| - | - | 21 | 20 | 20 | 22 | - | | |
| - | - | 23 | 20 | 20 | 24 | - | | |
| - | - | 25 | 20 | 20 | 26 | - | | |
| - | - | 27 | 20 | 20 | 28 | - | | |
| - | - | 29 | 20 | 20 | 30 | - | | |
| - | - | 31 | 20 | 20 | 32 | - | | |
| - | - | 33 | 20 | 20 | 34 | - | | |
| - | - | 35 | 20 | 20 | 36 | - | | |
| - | - | 37 | 20 | 20 | 38 | - | | |
| - | - | 39 | 20 | 20 | 40 | - | | |
| - | - | 41 | 20 | 20 | 42 | - | | |
| TOTAL | 1500 | 500 | 600 | | 500 | 40 | 400 | TOTAL |

Ⓜ A 2000
Ⓜ B 540
Ⓜ C 1000
TOTAL 3540 VOLTAMPS

TOTAL CONNECTED LOAD: 9.8A

07/25/23 ISSUE FOR BID
05/17/23 ISSUE FOR 50% CD

NO. DATE REVISIONS/ISSUANCES



CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

PROJECT NUMBER: 42242
PROJECT MANAGER:
ARCH/ENG:
SCALE:
DRAWN BY: JP
CHECKED BY: JL

ELECTRICAL SCHEDULES

E4-1

Environmental Engineer MEPFP Engineer Architect of Record

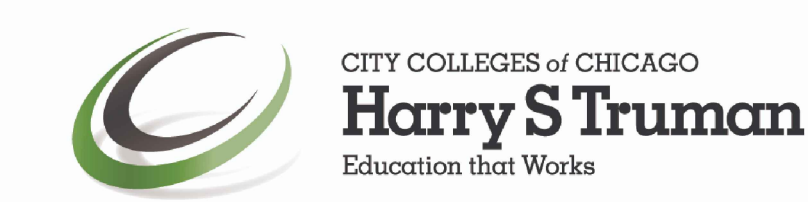
Environmental Design International, Inc.
33 E. Monroe Street #1820
Chicago, IL 60603
312.345.1400
www.edvdesign.com

CCJM
E. Wacker Dr #303
Chicago, IL 60601
312.689.0609
www.ccm.com

Tilton Kelly + Bell, LLC
55 West Monroe - Suite 1975
Chicago, IL 60603
312.447.3100
www.tbkbell.com

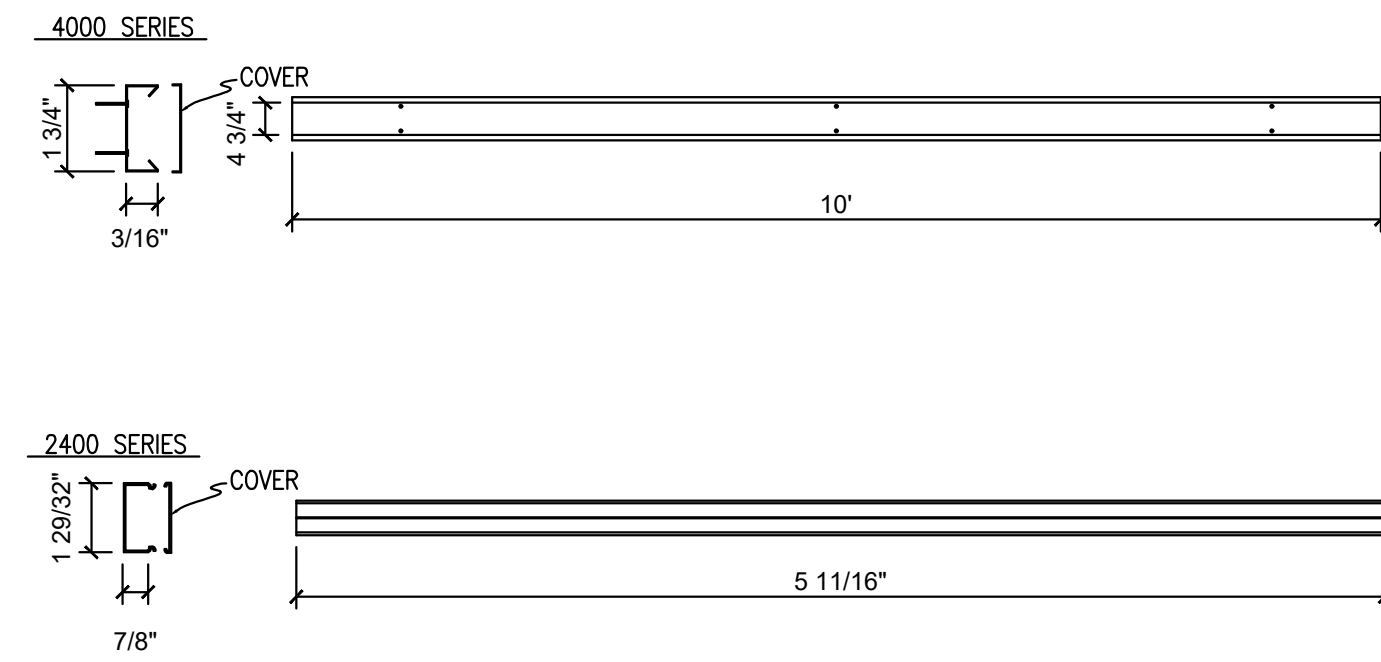
Owner

Harry S Truman College
1145 W Wilson Ave
Chicago, IL 60604
(773) 907-4000
www.ccc.edu



SEAL

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1 TYPICAL MOUNTING DETAILS FOR SURFACE MOUNTED METAL RACEWAYS
SCALE: NOT TO SCALE

| SURFACE MOUNTED METAL RACEWAY | ANCHOR TYPE | SPACING | WALL |
|-------------------------------|--|----------------------------|--------------------------------|
| 4000 SERIES | 1/4" TOGGLE BOLTS | 2-4 FT. C/C MAX | DRYWALL 1/2" OR 3/4" |
| 4000 SERIES | 1/4" TOGGLE BOLTS | 2-4 FT. C/C MAX | LATH & PLASTER |
| 4000 SERIES | A) 3/8" WOOD SCREWS TRUSS HEAD = 1 1/2" B) 8 GAUGE FLAT HEAD FLAT HEAD, PENET= 1 1/2" | 2-4 FT. C/C | WOOD STUDS |
| 4000 SERIES | A) #8 GAGE GRABBER PLYWOOD SCREWS, 1 1/2" LONG. (d=1.625") B) 1/2" HILTI KWIK BOLT II | 2-4 FT. C/C | PLYWOOD 1/2" |
| 4000 SERIES | A) 1/2" HILTI SLEEVE ANCHOR EMBED = 1 1/2" B) HILTI HIT HY20 WITH 1/2" THREADED ROD, EMBED = 2" | 1-4 FT. C/C 1-4 FT. C/C | CONCRETE BLOCK HOLLOW |
| 4000 SERIES | A) 1/2" HILTI KWIK BOLT II EMBED = 2" B) HILTI SLEEVE ANCHOR 1/2" EMBED = 1 1/2" | 2-4 FT. C/C | CONCRETE BLOCK SOLID CONCRETED |
| 4000 SERIES | HILTI HIT HY20 EMBED = 6" 3/8" ROD W/ SCREEN | 2-4 FT. C/C | UNREINFORCED MASONRY |
| 2400 SERIES | SAME AS FOR 4000 SERIES | 2-4 FT. C/C MAX | SAME AS ABOVE |

2 TYPICAL MOUNTING REQUIREMENTS FOR SURFACE MOUNTED METAL RACEWAY
SCALE: NOT TO SCALE

| EXIT-DIRECTIONAL SIGN SCHEDULE | | | |
|--------------------------------|---------------------|-------------|---------------------|
| SINGLE-FACE | | DOUBLE-FACE | |
| SYMBOL | TAG NO. DESCRIPTION | SYMBOL | TAG NO. DESCRIPTION |
| ⊗ | #1 FIRE ESCAPE | ⊗ | #16 FIRE ESCAPE |
| ⊗ | #2A STAIRS | ⊗ | #17A STAIRS |
| ⊗ | #3 EXIT | ⊗ | #18 EXIT |
| ⊗ | #4 FIRE ESCAPE | ⊗ | #19 FIRE ESCAPE |
| ⊗ | #5A STAIRS | ⊗ | #20A STAIRS |
| ⊗ | #6 EXIT | ⊗ | #21 EXIT |
| ⊗ | #7 FIRE ESCAPE | ⊗ | #22 FIRE ESCAPE |
| ⊗ | #8A STAIRS | ⊗ | #23A STAIRS |
| ⊗ | #9 EXIT | ⊗ | #24 EXIT |
| ⊗ | #10 FIRE ESCAPE | | |
| ⊗ | #11A STAIRS | | |
| ⊗ | #12 EXIT | | |

NOTES:
1. ALL EXIT SIGNS SHALL MEET OSHA REQUIREMENTS.
2. E.C. SHALL VERIFY TYPE OF MOUNTING WITH ARCHITECT FOR ALL EXIT SIGNS PRIOR TO ORDERING.
3. E.C. SHALL VERIFY LETTER/BACKGROUND COLOR AND CHEVRONS WITH ELECTRICAL PLANS & ARCHITECT.

| TAG | DESCRIPTION | LOAD | | | FEED FROM | | WIRING | | DISCONNECT | | SEE NOTES | | |
|------|---|------|-------|----|-----------|------|-----------|-----|------------|----------------------|-----------|-----|------|
| | | VOLT | PHASE | HP | KW | AMPS | PANEL | CCT | SIZE | POLE | | NO. | SIZE |
| 01 | AUTOCLAVE W/ REMOVABLE S/S PANELS FRONT & SIDE | 120 | 1 | - | - | 3 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | 30 | 1 | 2, 3 |
| 01-A | ELECTRIC STEAM BOILER WITH AUTOCLAVE | 208 | 3 | - | - | 58 | DP-LAB-2B | 80 | 3 | 3#3, 1#8 GRD, 1 1/2" | 100 | 3 | 1, 3 |
| 01-B | CONTROLLER FOR AUTOCLAVE BOILER | 120 | 1 | - | - | 3 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | 30 | - | 1, 3 |
| 05 | BIO SAFETY CABINET | 120 | 1 | - | - | 6 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | - | - | 1 |
| 07 | CENTRIFUGE | 120 | 1 | - | - | 10.8 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 10 | FREEZER -80 C | 120 | 1 | - | - | 16 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 11 | FREEZER -20 C | 120 | 1 | - | - | 16 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 14 | ICE MACHINE | 120 | 1 | - | - | 10 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 16 | INCUBATOR | 120 | 1 | - | - | 6 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 2 |
| 18 | LIQUID NITROGEN TANK ON WHEELS | 120 | 1 | - | - | - | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 19 | LIGHT STAND ON WHEELS | 120 | 1 | - | - | - | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 20 | MICROWAVE | 120 | 1 | - | - | 12.7 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 21 | MICROWAVE | 120 | 1 | - | - | 12.7 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 23 | REFRIGERATOR: LAB | 120 | 1 | - | - | 10 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 24 | REFRIGERATOR: LAB | 120 | 1 | - | - | 10 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 26 | REFRIGERATOR: DELI (GLASS) | 120 | 1 | - | - | 12 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 27 | REFRIGERATOR: DELI (GLASS) | 120 | 1 | - | - | 12 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 28 | RO WATER POLISHER, 450 GPD W/ 80 GAL TANK BELOW | 120 | 1 | - | - | 8 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | 30 | 1 | 1, 3 |
| 30 | SHAKER H20 | 120 | 1 | - | - | 5 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 34 | WATER BATH | 120 | 1 | - | - | 8.5 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |
| 35 | WATER BATH | 120 | 1 | - | - | 8.5 | SEE PLAN | 20 | 1 | 2#12, 1#12 GRD, 3/4" | PLUG | - | 1 |

NOTE 1 EXISTING EQUIPMENT
NOTE 2 NEW EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR
NOTE 3 DISCONNECT SWITCH FURNISHED AND INSTALLED BY CONTRACTOR.

| TAG | MANUFACTURER & CATALOG SERIES | LIGHT SOURCE | DRIVER/BALLAST TYPE | LUMINAIRE | | MOUNTING | DESCRIPTION | REMARKS |
|---------|--|--------------------------|---------------------|-----------|-------|-------------------|---|-------------------|
| | | | | TOTAL VA | VOLTS | | | |
| F1 | EXISTING | FLUORESCENT | EXISTING | EX | 120V | RECESSED | 2X4 EXISTING LIGHTING FIXTURE | |
| F1(ALT) | LITHONIA - 26T LED SERIES METALUX - 26R LED SERIES DAY-BRITE - TGRID SERIES COLUMBIA - LLT24 SERIES | LED 4000 LUM 3500K | INTEGRAL LED DRIVER | 38 | 120V | RECESSED | 2X4 LED RECESSED LIGHTING FIXTURE. PROVIDE WITH FROSTED ACRYLIC LENS. DRIVER DIMS TO 10% (1-10V DIMMING). FINISH COORDINATE WITH ARCHITECT. FOR EMERGENCY LIGHTING PROVIDE FIXTURE WITH EMERGENCY BATTERY PACK. | NOTES 2, 3, 9, 10 |
| F2 | HALO - HLJ30 LED SERIES OR APPROVED EQUAL. | LED 3500K | INTEGRAL LED DRIVER | 5.5/FT | 120V | SURFACE | UNDERCABINET LED FIXTURES. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION. PROVIDE WITH INTEGRAL SWITCH AND PIR MOTION SENSOR. FINISH COORDINATE WITH ARCHITECT. | NOTES 2, 3, 9, 15 |
| EBU | CHLORIDE - TMF SERIES DUAL-LITES - COUZ SERIES SURE-LITES - XR8-C SERIES | LED | INTEGRAL LED DRIVER | 11 | 120V | SURFACE | CHICAGO APPROVED BATTERY PACK EMERGENCY FIXTURE. 2 HOUR BATTERY. | NOTES 2, 9, |
| X1 | CHLORIDE - CE SERIES SURE-LITES - EDGK SERIES LITHONIA - EDGC SERIES | LED | INTEGRAL LED DRIVER | 5 | 120V | SURFACE/ RECESSED | CHICAGO APPROVED BATTERY BACKUP EXIT SIGN. EDGE-LIT WITH INDICATOR & TEST SWITCH. PROVIDE CHEVRON AS INDICATED ON PLAN. | NOTES 2, 9, |

1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING CONSTRUCTION.
2. PROVIDE INSTALLED UL LABELS WITH THE MAXIMUM SCHEDULED WATTAGE.
3. LAMPS SHALL BE 3500K COLOR TEMPERATURE.
4. REFER TO LIGHTING PLANS FOR (*) ROW LENGTH.
5. PROVIDE SIDE BRACKETS TO MOUNT TO WALL/COVE/SUPPORTS.
6. CUSTOM LENGTH SUSPENSION.
7. LIGHT FIXTURE WITH TWO BALLASTS FOR DUAL SWITCHING.
8. PROVIDE WITH CABLE/RIGID STEMS.
9. PROVIDE WITH LAMPS.
10. CHICAGO PLENUM APPROVED.
11. REFER TO DRAWING FOR ARROW DESIGNATIONS.
12. BALLAST MINIMUM STARTING TEMPERATURE (-20 DEG. F).
13. RSW (ROCKER SWITCH).
14. HARDWIRED POWER SUPPLY AND JACK.
15. PROVIDE WITH BUILT-IN MOTION SENSOR.

| TAG | DESCRIPTION | LOCATION | LOAD | | | FEED FROM | | WIRING | | DISCONNECT | | STARTER | | REMARKS | | | | | | | |
|-------|-------------|----------|------|-------|----|-----------|------|--------|-----|------------|------|---------|------|---------|------|------|------|------|---|---|----------|
| | | | VOLT | PHASE | HP | KW | AMPS | PANEL | CCT | SIZE | POLE | NO. | SIZE | | COND | SIZE | POLE | TYPE | | | |
| RE-16 | EXHAUST FAN | ROOF | 480 | 3 | 1 | - | 2.1 | EX | EX | 20 | 3 | 3 | 12 | 3/4" | 12 | 30 | 3 | - | - | - | NOTE 1,2 |

NOTE 1 - DISCONNECT FURNISHED BY MANUFACTURER. WIRING SHALL BE INSTALLED BY DIVISION 26.
NOTE 2 - MOTOR STARTER BY DIV 23. WIRING SHALL BE INSTALLED BY DIVISION 26. EXACT LOCATION COORDINATE WITH OWNER.
GENERAL NOTES:
1. PROVIDE EQUIPMENT GROUND WIRE IN ALL CONDUITS PER CHICAGO ELECTRICAL CODE TABLE 18-27-250-122. PROVIDE GROUNDING BUSHINGS THROUGHOUT.

07/25/23 ISSUE FOR BID
05/17/23 ISSUE FOR 50% CD

NO. DATE REVISIONS/ISSUANCES



CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

PROJECT NUMBER: 42242

PROJECT MANAGER:

ARCH/ENG:

SCALE:

DRAWN BY: QP

CHECKED BY: JL

ELECTRICAL SCHEDULES & DETAILS

E4-2

Environmental Engineer MEPFP Engineer Architect of Record

Environmental Design International, Inc.
33 E. Monroe Street #1925
Chicago, IL 60603
312.345.1400
www.edienvs.com

CCJM
E. Wacker Dr #303
Chicago, IL 60601
312.869.0609
www.ccm.com

Tilton Kelly + Bell, LLC
55 West Monroe - Suite 1975
Chicago, IL 60604
312.447.3100
www.tbkbell.com

Owner

Harry S Truman College
1145 W. Wilson Ave.
Chicago, IL 60604
(773) 907-4000
www.ccc.edu



SEAL

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ABBREVIATIONS LIST

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|---------------|--------------------------------------|--------------|--|
| AC | AIR COMPRESSOR | MM | MILLIMETER |
| AD | AREA DRAIN | NFWH | NON-FREEZE WALL HYDRANT |
| AFF | ABOVE FINISHED FLOOR | N/A | NOT APPLICABLE |
| AFG | ABOVE FINISHED GRADE | NB | NEUTRALIZING BASIN |
| AHJ | AUTHORITY HAVING JURISDICTION | NC | NORMALLY CLOSED |
| ANB | ACID NEUTRALIZING BASIN | NC | NOT CONTRACT |
| AP | ACCESS PANEL | NO | NORMALLY OPEN |
| ARCH | ARCHITECTURE, ARCHITECTURAL | NPW | NON-POTABLE WATER |
| AS | AUTOMATIC SPRINKLER | NS | NOT SPRINKLERED |
| ASST | ASSEMBLY | NTS | NOT TO SCALE |
| ATM | ATMOSPHERE | OD | OVERFLOW DRAIN, OUTSIDE DIAMETER |
| AUTO | AUTOMATIC | OHD | OPEN HUB DRAIN |
| AV | AUXILIARY | OS & Y | OUTSIDE SCREW AND YOKE |
| AV | ACID VENT | OSD | OPEN SITE DRAIN |
| AVTR | ACID VENT THRU ROOF | OW | OPEN SITE WASTE |
| AW | ACID WASTE | OW | OPEN SITE WASTE |
| B/W | BETWEEN | PC | PRESSURE BALANCING VALVE |
| BC | BALANCING COCK OR VALVE | PCV | PLUMBING CONTRACTOR |
| BFF | BELOW FINISHED FLOOR | PD | PUMP DISCHARGE |
| BFG | BELOW FINISHED GRADE | PG | PRESSURE GAUGE |
| BOB | BOTTOM OF BEAM | PW | POST INDICATOR VALVE |
| BOP | BOTTOM OF PIPE | PKG | PACKAGE |
| BTU | BRITISH THERMAL UNIT | PLB | PLUMBING |
| BTUH | BRITISH THERMAL UNIT PER HOUR | POC | POINT OF CONNECTION |
| BV | BUTTERFLY VALVE W/TAMPER SWITCH | PPM | PARTS PER MILLION |
| BV | BALL VALVE | PP | PLUMBING PUMP |
| BWV | BACKWATER VALVE | PRESS | PRESSURE |
| CA | COMPRESSED AIR (INDUSTRIAL) | PRV | PRESSURE REDUCING VALVE |
| CALC | CALCULATIONS | PSI | POUNDS PER SQUARE INCH |
| CAP | CAPACITY | PSIG | POUNDS PER SQUARE INCH GAUGE |
| CC | CEILING COLUMN | PS | PLUMBING STACK |
| CCD | CHICAGO CITY DATUM | QTY | QUANTITY |
| CD | CONDENSATE DRAIN | RD | ROOF DRAIN |
| CFM | CUBIC FEET PER MINUTE | RPP | REDUCED PRESSURE ZONE BACKFLOW PREVENTER |
| CFS | CUBIC FEET PER SECOND | RPM | REVOLUTIONS PER MINUTE |
| CG | COMPOUND GAUGE | RS | RE-CIRCULATING PUMP |
| CJ | CAST IRON | S | S OR SAN |
| CL | CELLING | SCV | SECTIONAL CONTROL VALVE W/TAMPER SWITCH |
| CM | CENTIMETER | SE | SEWER EJECTOR |
| COL | COLUMN | SOFT | SQUARE FEET |
| COMP | COMPRESSOR | SPR | SPRINKLER |
| CONC | CONCRETE | SI | SHOWER |
| CONN. | CONNECTION | SK | SINK |
| CO | COLD | SL | SLOPE |
| CONT | CONTINUATION | SLSK | SLOP SINK |
| CSP | COMBINED STAMP/PIPER/SINKLER SYSTEM | SPP | SUMP PUMP |
| CV | CHECK VALVE | SPP | STAGE RIG PUMP (SEWAGE EJECTOR) |
| CWS | COLD WATER/CORROSIVE WASTE | SPR | SPRINKLER |
| DCV | DOUBLE CHECK VALVE | SS | SERVICE SINK |
| DDV | DECK DRAIN | SSD | SUB SOIL DRAINAGE |
| DDV | DOUBLE DETECTOR CHECK VALVE | ST | SCULLERY SINK |
| DF | DRINKING FOUNTAIN | ST | STORM |
| DFU | DRAINAGE FIXTURE UNIT | SUB | SUBCONTRACTOR |
| DI | DUCTILE IRON | SYS | SYSTEM |
| DIA | DIAMETER | SW | STORM WATER (FROM DETENTION TANK) |
| DM | DIMENSION | TB | THRUST BLOCK |
| DN | DOWN | TD | TRENCH DRAIN |
| DR | DRAIN | TAP | TEMPERATURE AND PRESSURE |
| DPV | DRY PIPE VALVE | TEMP | TEMPERATURE |
| DS | DOWNSPOUT | TERM | THERMOMETER |
| DV | DRAIN VALVE | TOB | TRIPLE OIL BASIN |
| DW | DISHWASHER | TMV | THERMOSTATIC MIXING VALVE |
| DWG | DRAWING | TMS | TAMPER SWITCH |
| DWH | DOMESTIC WATER HEATER | TW | TAMPER SWITCH |
| EA | EACH | TY | TYPICAL |
| EC | ELECTRICAL CONTRACTOR | UG | UNDERGROUND |
| EW | ELECTRIC EYEWASH | UNO | UNLESS NOTED OTHERWISE |
| EFF | EFFICIENCY | UR | URINAL |
| EL | ELEVATION | V | VENT |
| ELEC | ELECTRICAL | VAC | VACUUM |
| EQUIP | EQUIPMENT | VACC | VACUUM CLEANING |
| ES | EMERGENCY SHOWER | VACV | VACUUM VENT |
| ES/EW | EMERGENCY SHOWER/EYEWASH | VBC | VACUUM BREAKER |
| ET | EXPANSION TANK | VF | VERIFY IN FIELD |
| EIR | EXISTING TO REMAIN | VEL | VELOCITY |
| EW | ELECTRIC WATER COOLER | VERT | VERTICAL |
| DWH | ELECTRIC WATER HEATER | VTR | VENT THRU ROOF |
| EXIST OR EXTG | EXISTING | W | WASTE |
| EXP | EXPANSION | W/O | WITHOUT |
| FACP | FIRE ALARM CONTROL PANEL | WCO | WALL CLEANOUT |
| FBO | FURNISHED BY OTHERS | WC | WATER CLOSET |
| FCO | FLOOR CLEANOUT | WC | WATER CLOSET |
| FD | FLOOR DRAIN | WIP | WALL INDICATOR POST |
| FDC | FIRE DEPARTMENT CONNECTION | WF | WATER FILTER |
| FDV | FIRE DEPARTMENT VALVE | WFU | WATER FIXTURE UNIT |
| FDCV | FIRE DEPARTMENT VALVE CABINET | WFS | WATER FLOW SWITCH |
| FE | FIRE EXTINGUISHER | WFN | WASH FOUNTAIN |
| FEC | FIRE EXTINGUISHER CABINET | WM | WATER METER |
| FIN | FINISHED | WH | WATER HEATER |
| FPE | FINISHED FLOOR ELEVATION | WH | WALL HYDRANT |
| FI | FIRE HOSE | WHA | WATER HAMMER ARRESTOR |
| FH | FIRE HOSE CABINET | WSB | WASHER SUPPLY BOX |
| FHR | FIRE HOSE RACK | ZVB | ZONE VALVE BOX |
| FIXT | FIXTURE | (X) | FIXTURE OR EQUIPMENT TO BE REMOVED |
| FLR OR FL | FLOOR | | |
| FP | FIRE PROTECTION | | |
| FPC | FIRE PUMP CONTROLLER | | |
| FRM | FEET PER MINUTE | | |
| FPS | FEET PER SECOND | | |
| FS | FLOOR SWITCH, FLOOR SINK | | |
| FT | FEET | | |
| FV | FLUSH VALVE | | |
| FHYD | FIRE HYDRANT | | |
| G | GALVANIZED | | |
| GCD | GRADE CLEANOUT | | |
| GC | GENERAL CONTRACTOR | | |
| GD | GARAGE DRAIN | | |
| GSB | GUY GRAY BOX | | |
| GPH | GALLONS PER HOUR | | |
| GPM | GALLONS PER MINUTE | | |
| GT | GREASE TRAP | | |
| GV | GATE VALVE | | |
| GW | GREASE WASTE | | |
| HB | HOSE BIBB | | |
| H.P.T. | HIGH POINT | | |
| HD | HEAD | | |
| HD | HUB DRAIN | | |
| HP | HORSEPOWER | | |
| HVC | HEATING/VENTILATING/AIR CONDITIONING | | |
| HWS | DOMESTIC HOT WATER | | |
| HWR | DOMESTIC HOT WATER RE-CIRCULATING | | |
| HYD | HYDRAULIC | | |
| ID | INSIDE DIAMETER | | |
| IE | INVERT ELEVATION | | |
| IN | INCHES | | |
| INSUL | INSULATION | | |
| ITC | INSPECTOR TEST CONNECTION | | |
| IC | INDIRECT WASTE | | |
| IC | INSULATING COUPLING | | |
| JMB | JOCKEY PUMP | | |
| JPC | JOCKEY PUMP CONTROLLER | | |
| KFC | KITCHEN EQUIPMENT CONTRACTOR | | |
| KW | KITCHEN WASTE, KILOWATT | | |
| L | LITER | | |
| LAV | LAVATORY | | |
| LBS | POUNDS | | |
| LP | LOW POINT | | |
| LPA | LINE PRESSURE ALARM | | |
| LPG | LIQUID PROPANE GAS | | |
| LPM | LITERS PER MINUTE | | |
| LSK | LAB SINK | | |
| LV | LAB VENT | | |
| LVAC | LAB VACUUM | | |
| LW | LAUNDRY WASTE | | |
| LWH | LAB WATER HEATER | | |
| LT | LAUNDRY TRAY | | |
| MD | MARK DRAIN | | |
| MAX | MAXIMUM | | |
| MB | MOP BASIN | | |
| MH | 1000 BRITISH THERMAL UNITS | | |
| MECH | MECHANICAL | | |
| MEZZ | MEZZANINE | | |
| MH | MAN HOLE | | |
| MIN | MINIMUM | | |
| MINS | MINUTES | | |

FIXTURE SYMBOLS

| | |
|------|--|
| WC-# | WATER CLOSET (TYPE INDICATED) |
| UR-# | URINAL (TYPE INDICATED) |
| L-# | LAVATORY (TYPE INDICATED) |
| EW-# | ELECTRIC WATER COOLER (TYPE INDICATED) |
| DF-# | DRINKING FOUNTAIN (TYPE INDICATED) |
| SS-# | SCULLERY SINK (TYPE INDICATED) |
| MB-# | MOP BASIN (TYPE INDICATED) |
| SH-# | SHOWER (TYPE INDICATED) |
| SK-# | SINK (TYPE INDICATED) |
| FD-# | FLOOR DRAIN (TYPE INDICATED) |
| FS-# | FLOOR SINK (TYPE INDICATED) |
| AD-# | AREA DRAIN (TYPE INDICATED) |
| PD-# | PLANTER DRAIN (TYPE INDICATED) |
| RD-# | ROOF DRAIN (TYPE INDICATED) |
| OD-# | OVERFLOW DRAIN (TYPE INDICATED) |

NOTE: 1. THIS IS A GENERAL SYMBOL LIST THEREFORE SOME ITEMS MAY NOT DIRECTLY APPLY TO THIS PROJECT AND DRAWINGS.
2. EXISTING PIPING SHOWN WITH THIN LINE WEIGHT. NEW PIPING SHOWN WITH THICK LINE WEIGHT.
3. DISREGARD SYMBOLS AND ABBREVIATIONS WHICH DO NOT APPLY TO THIS PROJECT.

SYMBOLS LIST

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---------------------------|---|--------|---|
| UNDERGROUND PIPING | | | |
| | SANITARY | | STORM |
| | SUB-SOIL DRAIN (DRAIN TILE) | | KITCHEN WASTE |
| | DOMESTIC COLD WATER | | GARAGE WASTE |
| | WASTE | | SANITARY VENT |
| SUSPENDED PIPING | | | |
| | SANITARY | | STORM |
| | KITCHEN WASTE | | LAUNDRY WASTE |
| | INDIRECT WASTE | | CONDENSATE DRAIN |
| | DOMESTIC COLD WATER | | DOMESTIC HOT WATER SUPPLY |
| | DOMESTIC HOT WATER RE-CIRCULATING | | SANITARY VENT |
| | ACID VENT | | NEW PIPING |
| | EXISTING PIPE/EQUIPMENT TO REMAIN | | EXISTING DEMO PIPE |
| | POINT OF NEW CONNECTION TO EXISTING | | BALL VALVE |
| | BALL VALVE ON VERTICAL | | GENERAL OR GATE VALVE (SEE SPECIFICATIONS FOR TYPE) |
| | OS & Y GATE VALVE | | CHECK VALVE |
| | TERMINAL VALVE | | CHECK VALVE ON VERTICAL |
| | BALANCING VALVE (SEE SPECIFICATIONS FOR TYPE) | | GAS COCK |
| | PRESSURE AND TEMPERATURE RELIEF VALVE | | BUTTERFLY VALVE WITH TAMPER SWITCH |
| | REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY | | PRESSURE REDUCING VALVE |
| | CIRCUIT SETTING VALVE (HOT WATER RE-CIRC PIPING) | | PRESSURE REDUCING VALVE STATION |
| | 3-WAY VALVE (THERMOSTATIC MIXING VALVE) | | STRAINER (SEE SPECIFICATIONS FOR TYPE) |
| | FLOAT OPERATED VALVE | | PLUG VALVE |
| | SOLENOID VALVE | | ANGLE VALVE |
| | GUY GRAY BOX | | AIR CHAMBER |
| | AIR VENT OR VTR | | BRANCH-TOP CONNECTION |
| | BRANCH-BOTTOM CONNECTION | | BRANCH-SIDE CONNECTION |
| | RISER DOWN (ELBOW) | | WASTE PIPE WITH TRAP |
| | FLOOR CLEAN OUT | | PITCHES DOWN OR UP IN DIRECTION OF ARROW |
| | PLUG OR CAP PIPE | | REDUCER |
| | WATER HAMMER ARRESTOR | | PRESSURE GAUGE |
| | THERMOMETER | | HOSE BIBB (SEE SPECIFICATIONS FOR TYPE) |
| | NON-FREEZE WALL HYDRANT (SEE SPECIFICATIONS FOR TYPE) | | NON-FREEZE POST HYDRANT |
| | DECK HYDRANT | | SUSPENDED CLEANOUT |
| | WALL CLEANOUT | | NON-POTABLE WATER |
| | EJECTOR VENT | | PUMP DISCHARGE |

PRESSURE AND FLOW TEST RESULTS

PRESSURE AND FLOW TEST RESULTS: 36 PSI HYDRANT CLOSED (STATIC) PRESSURE
24 PSI HYDRANT OPEN (RESIDUAL) PRESSURE
1410 GPM FLOW
8" MAIN
TEST PERFORMED ON 8/5/2014 AT ESTES AND SACRAMENTO.

CITY OF CHICAGO NOTES

- PROVIDE AND INSTALL AIR CHAMBERS (18-29-604.11).
- PROVIDE EXPANSION CAPABILITIES FOR DOMESTIC HOT WATER PIPING (18-29-607.5).
- UNUSED SECTIONS OF WATER SUPPLY (DEAD ENDS) ARE PROHIBITED (18-29-605.26).
- SHUTOFF VALVES FOR WATER HEATERS OR HEATED STORAGE TANKS MAY BE INSTALLED ON THE INLET SIDE ONLY (18-29-603.1.1).
- VENT SYSTEM SHALL TERMINATE TO ROOF UNDIMINISHED (18-29-603.1).
- NO PVC ALLOWED IN COMMERCIAL BUILDING (18-29-702.1).
- VACUUM BREAKER SERVING MOP BASINS AND SERVICE SINKS FAUCET SHALL BE INSTALL @ 7'-6" A.F.F.
- ALL UNDER GROUND SANITARY AND STORM PIPES SHALL BE MIN. 4" CAST IRON.
- ALL UNDER GROUND AND HORIZONTAL SUSPENDED VENT PIPES SHALL BE MIN. 2".
- ALL VENTS THROUGH ROOF SHALL BE AT LEAST 15'-0" AWAY FROM ANY FRESH AIR INTAKE.

PLUMBING GENERAL NOTES

- GENERAL PLUMBING NOTES:**
- ALL THE FOLLOWING NOTES APPLIES TO ALL PLUMBING DRAWINGS.
 - EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING. EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK. EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
 - THIS CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH THE LATEST CHICAGO BUILDING CODE AND CPS DESIGN GUIDELINES. AFTER EACH WORK DAY, CONTRACTOR SHALL CLEAN ALL WORK AREAS AND REMOVE ALL DEBRIS.
 - THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS FEES AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
 - THIS CONTRACTOR SHALL FURNISH AS-BUILT CONTRACT DOCUMENTS TO THE OWNER / ENGINEER BEFORE FINAL PAYMENT WILL BE ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL BE SUBMITTED IN AUTOCAD DRAWINGS FORM.
 - THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
 - THIS CONTRACTOR SHALL PROVIDE ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION AND USUALLY INCLUDED IN SIMILAR WORK EVEN THOUGH NOT NECESSARILY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS AND BOLTS, ANCHORS, HANGERS, BRACKET SLEEVES, MINOR OFFSETS IN PIPING BECAUSE OF UNFORESEEN CONDITIONS, ETC.
 - PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CHICAGO CODE REQUIREMENTS.
 - DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS UNLESS SPECIFICALLY DIMENSIONED. COORDINATE THE WORK WITH ALL TRADES TO AVOID INTERFERENCE. PLUMBING WORK THAT IS INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER TRADES OR DEVIATES FROM THE SPACE PROVIDED BY THE ARCHITECT DUE TO THE LACK OF COORDINATION SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.
 - PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CHICAGO CODE REQUIREMENTS.
 - DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS UNLESS SPECIFICALLY DIMENSIONED. COORDINATE THE WORK WITH ALL TRADES TO AVOID INTERFERENCE. PLUMBING WORK THAT IS INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER TRADES OR DEVIATES FROM THE SPACE PROVIDED BY THE ARCHITECT DUE TO THE LACK OF COORDINATION SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.
 - PROVIDE BACK FLOW PREVENTERS AND TEST IN ALL LOCATIONS REQUIRED BY CODE.
 - PROVIDE MAXIMUM HEADROOM IN ALL PIPED LOCATIONS.
 - PROVIDE ISOLATION VALVES FOR COLD, HOT, AND HOT WATER RETURN SYSTEMS AT EACH FIXTURE. FIXTURE GROUP AND SYSTEM COMPONENTS TO ALLOW FOR PROPER MAINTENANCE.
 - INSTALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES. PROVIDE PANS AND DRAIN LINES.
 - INSULATE ALL PIPES RACKED TO OUTSIDE WALLS SUBJECT TO FREEZING.
 - PROVIDE ALL PROPER BUILDING PENETRATIONS TO MEET ALL MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES.
 - INSULATE ALL HOT, COLD AND RETURN WATER LINES. INSULATE ALL STORM PIPING.
 - PROVIDE AT EACH FIXTURE SUPPLY CONNECTION, BOTH HOT AND COLD WATER, AN AIR CHAMBER NOT LESS THAN 12" LONG, ONE SIZE LARGER THAN THE FIXTURE SUPPLY.
 - PROVIDE EXPANSION JOINTS AS REQUIRED BY CODE ON HOT WATER SYSTEMS.
 - PROVIDE LOCAL STOPS OR VALVES AT ALL WATER CONNECTIONS TO PLUMBING FIXTURES. ISOLATE RISERS AT CONNECTIONS TO MAINS WITH SHUT-OFF VALVES. PROVIDE DRAIN COCKS TO FACILITATE SERVICING.
 - ALL HOT WATER SUPPLY AND RE-CIRCULATING PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS OR LOOPS AND PIPE OFFSETS AS REQUIRED BY FIELD CONDITIONS.
 - DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC ACTION. DI-ELECTRIC UNIONS ARE TO BE USED AT ALL SUCH CONNECTIONS.
 - INSTALL ALL PIPING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING, WATER AND DRAIN LINES ARE NOT PERMITTED OVER OR UNDER ELECTRICAL PANELS OR DEDICATED ELECTRICAL SPACES.

GENERAL COORDINATION NOTES:

- PRIOR TO WORK THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS WITH PROPOSED PLUMBING COMPONENTS AND THE WORK OF OTHER TRADES, DRAWN TO SCALE, ON ARCHITECTURAL PLAN BACKGROUNDS. THESE DRAWINGS SHALL SHOW THE FULLY COORDINATED LAYOUT OF ALL TRADES INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND CEILING COMPONENTS. THEY SHALL INDICATE THE VERTICAL ELEVATION OF CRITICAL COMPONENTS INCLUDING, BUT NOT LIMITED TO CEILING, BOTTOM AND TOP OF DUCTWORK, BOTTOM OF STEEL, AND SIMILAR INFORMATION. DRAWINGS SHALL ALSO CLEARLY SHOW REQUIRED CLEARANCES AND ACCESS POINTS ON VARIOUS EQUIPMENT, VALVES, ETC. REQUIRING ACCESS. THE CONTRACTOR SHALL CONSTRUCT VERTICAL SECTIONS, DRAWN TO SCALE, AT CRITICAL AREAS TO COORDINATE AND ENSURE FIT OF ALL COMPONENTS AND THAT SUFFICIENT ACCESS TO ELEMENTS REQUIRING ACCESS AND MAINTENANCE ARE ACCOMMODATED. ALL FINAL COORDINATION SHALL BE DONE BY CONTRACTOR PRIOR TO SUBMISSION OF MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION SHOP DRAWINGS TO AOR AND SHALL BE REFLECTED ON SAID DRAWINGS.

PIPING & INSULATION APPLICATIONS

| PIPE IDENTIFICATION | PIPE | FITTINGS | JOINTS | INSULATION | | |
|-----------------------------------|------|----------|--------|------------|-----------|--------------------|
| | | | | MAT'L | THICKNESS | FIELD APPL. JACKET |
| SUSPENDED WATER SERVICE | | | | | | |
| SUSPENDED WATER --- 4" & OVER | | | | | | |
| SUSPENDED WATER --- 3" & LESS | | | | | | |
| UNDERGROUND SANITARY WASTE & VENT | | | | | | |
| SUSPENDED SAN. W. & V. 3" & OVER | | | | | | |
| SUSPENDED SAN. W. & V. 2" & LESS | | | | | | |
| INCOMING WATER SERVICE | | | | | | |
| SUSPENDED WATER --- 4" & OVER | | | | | | |
| SUSPENDED WATER --- 3" & LESS | | | | | | |
| UNDERGROUND SANITARY WASTE & VENT | | | | | | |
| SUSPENDED SAN. W. & V. 3" & OVER | | | | | | |
| SUSPENDED SAN. W. & V. 2" & LESS | | | | | | |

GENERAL NOTES:

- A CLEANOUT SHALL BE INSTALLED AT OR NEAR THE BASE OF EACH WASTE STACK.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, WALL LOCATIONS, FIXTURE ELEVATIONS ETC.
- COORDINATE PIPING MATERIAL WITH PROJECT SPECIFICATIONS. THE MORE STRINGENT VERSION SHALL BE ACCEPTED.
- PIPE MATERIALS, FITTINGS AND JOINTS MUST MEET APPLICABLE BUILDING CODE REQUIREMENTS.
- INCOMING WATER SERVICE: 5'-0" OUTSIDE OF BLDG. TO 1'-0" A.F.F.

07/25/23 ISSUE FOR BID
05/17/23 ISSUE FOR 50% CD
NO. DATE REVISIONS/ISSUANCES



CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

PROJECT NUMBER: 42242

PROJECT MANAGER:

ARCH/ENG:

SCALE:

DRAWN BY:

CHECKED BY:

PLUMBING SYMBOLS, ABBREVIATIONS AND NOTES

P0-1

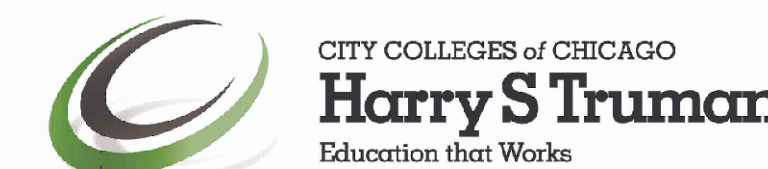
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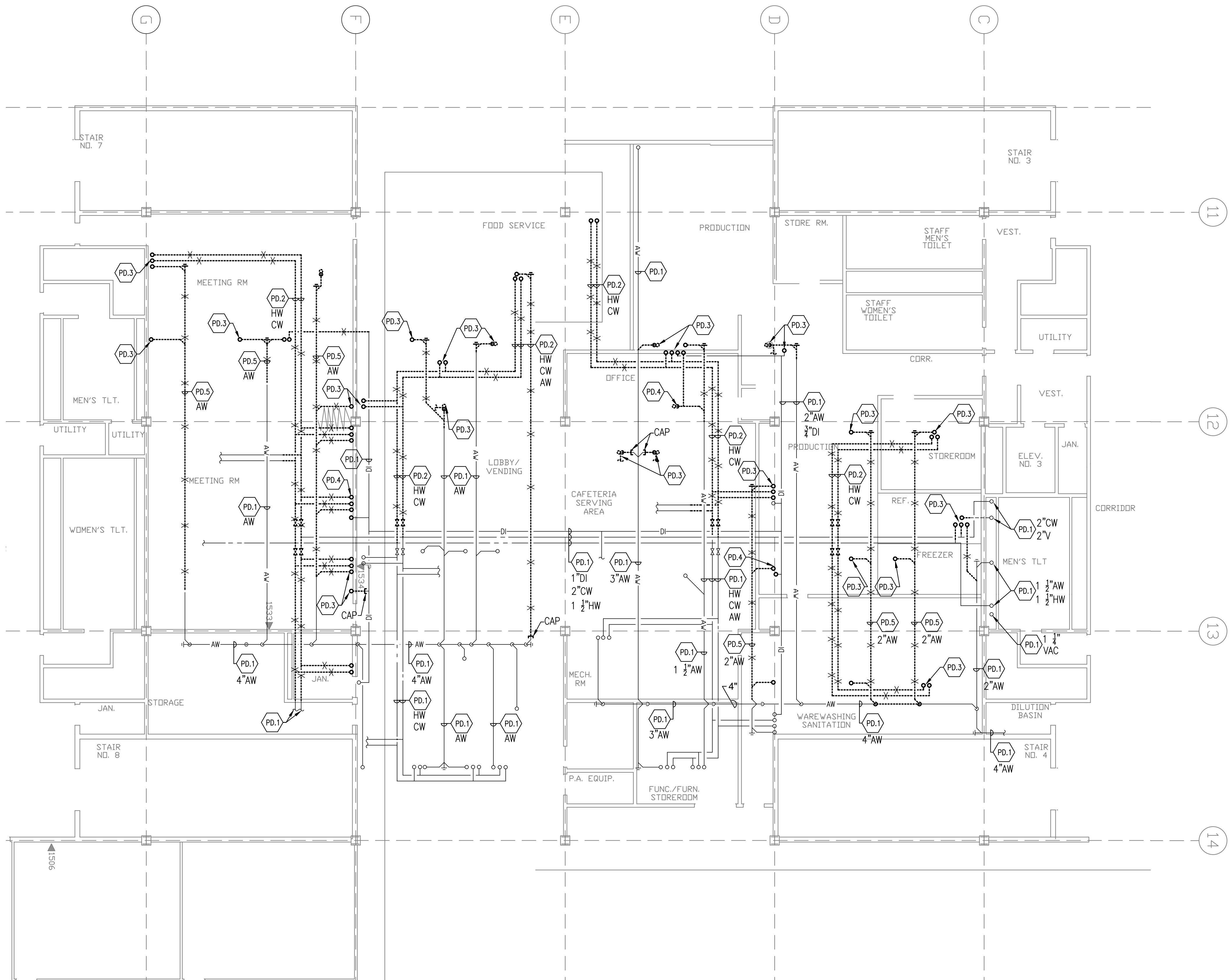
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SEAL



1 PLUMBING FIRST FLOOR CEILING - DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

- A COMPLETE AND ACCURATE DESCRIPTION OF ALL PLUMBING WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING PLUMBING WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM ALL WORK AND PROVIDE ALL MATERIALS AS REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE PLUMBING WORK TO MEET DESIGN INTENT. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
- COORDINATE ALL THE ABANDONED DOMESTIC AND SANITARY PIPING WITH GENERAL CONTRACTOR AND BUILDING ENGINEER PRIOR TO REMOVING ALL PIPING AND ASSOCIATED HANGERS AND SUPPORT INDICATED TO BE DEMOLISHED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CLAIMS FOR EXTRAS DUE TO UNCOVERED SITE CONDITIONS WILL GENERALLY NOT BE ACCEPTED SUBJECT TO AOR/EOR REVIEW.
- DRAWINGS SHOW EXISTING CONDITIONS IN DIAGRAMMATIC FORM. EXTENT OF SYSTEMS, SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
- FOR THE PURPOSE OF DESIGN INTENT, SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE FULL SCOPE OF DEMOLITION.
- COORDINATE SHUT-DOWNS OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR THE DEMOLITION OF EXISTING WORK WITH THE OWNER. PROVIDE MINIMUM 48 HOURS PRIOR NOTIFICATION OF SUCH SHUT-DOWNS. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.
- REFER TO ARCHITECTURAL PLANS FOR CEILING AND WALL WORK IN THE AREA OF WORK. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE, RESTORE, CUT, CORE, PATCH, PAINT, ETC. OF ANY CEILING AND WALL WORK THAT NOT SHOWN ON THE ARCHITECTURAL PLAN. THE CONTRACTOR SHALL DOCUMENT ANY DAMAGED CEILING AND WALL PRIOR TO COMMENCING THE WORK.
- DEAD ENDS SHALL NOT EXCEED 2'-0".
- CONTRACTOR SHALL TURN OVER THE GLASS WASTE/VENT PIPING TO THE OWNER OR DISPOSE, AS DIRECTED.

KEY NOTES

- EXISTING PLUMBING PIPING (OF SYSTEM INDICATED) TO REMAIN.
- REMOVE EXISTING PIPING (OF SYSTEM INDICATED). COORDINATE WITH NEW PLAN AND VERIFY THE EXTENT OF DEMOLITION IN FIELD.
- REMOVE VERTICAL PORTION OF THE INDICATED PLUMBING PIPING TO FLOOR ABOVE. PATCH THE DECK TO MATCH EXISTING.
- REMOVE VERTICAL PORTION OF THE INDICATED PLUMBING PIPING TO FLOOR ABOVE. DO NOT PATCH THE DECK AS EXISTING FLOOR PENETRATION CAN BE USE FOR NEW INSTALLATION. REFER TO NEW PLAN FOR MORE INFORMATION.
- CAREFULLY REMOVE EXISTING ACID WASTE PIPING AND TURN OVER TO OWNER. VERIFY IN FIELD THE SECTIONS OF THE GLASS PIPING TO BE REMOVED FOR ALLOWING THE NEW PIPING INSTALLATION. REFER TO THE NEW PLAN FOR MORE INFORMATION.

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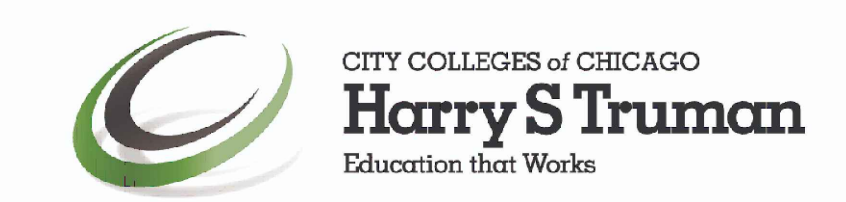
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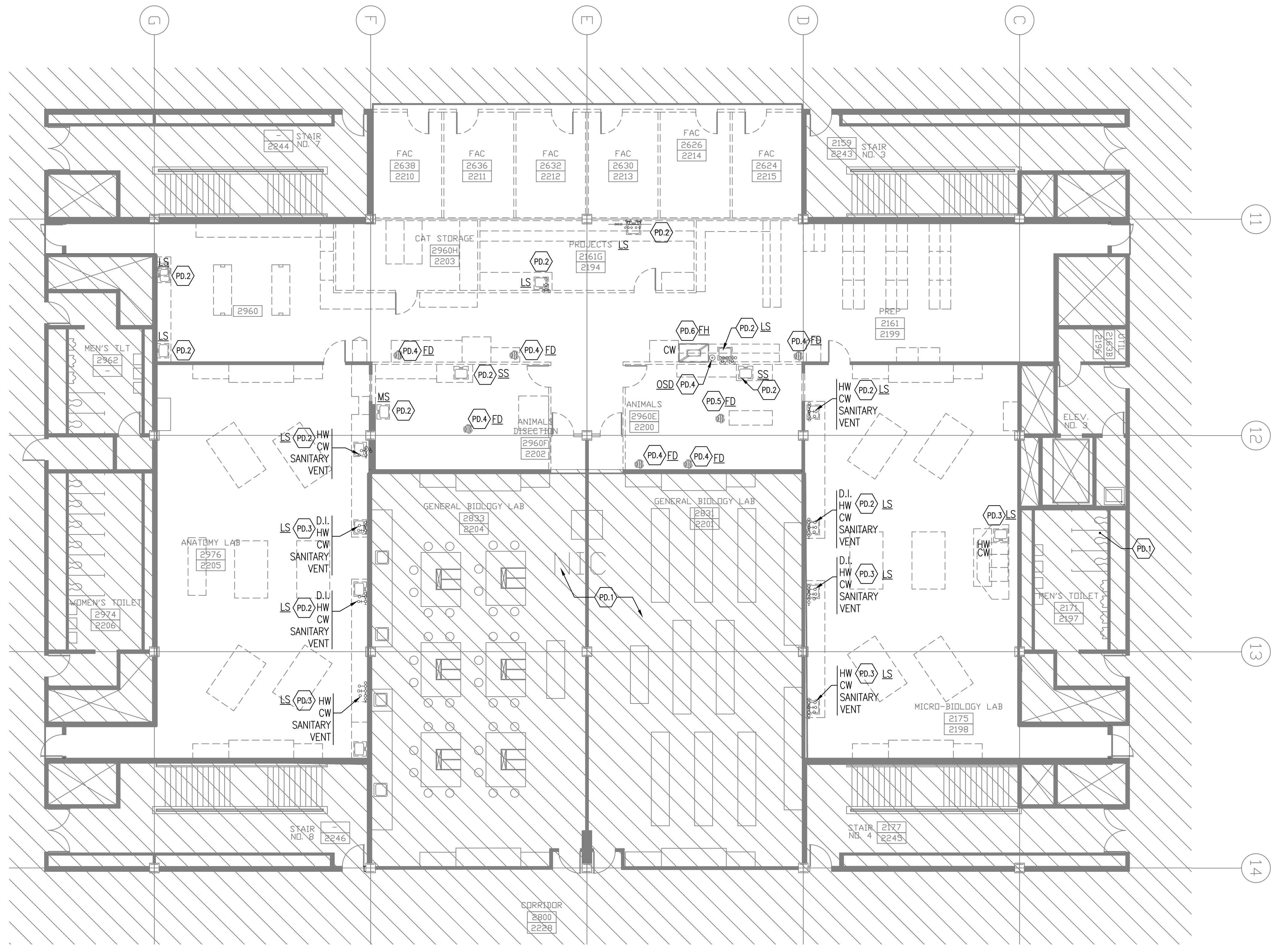
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PLUMBING
FIRST FLOOR CEILING
DEMOLITION PLAN
P1-0



1 PLUMBING SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

- A COMPLETE AND ACCURATE DESCRIPTION OF ALL PLUMBING WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING PLUMBING WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE PLUMBING WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
- COORDINATE ALL THE ABANDONED DOMESTIC AND SANITARY PIPING WITH GENERAL CONTRACTOR AND/OR BUILDING ENGINEER PRIOR TO REMOVING ALL ABANDONED PIPING AND ASSOCIATED HANGERS AND SUPPORT.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. AS CLAIMS FOR EXTRAS DUE TO UNCOVERED SITE CONDITIONS WILL NOT BE ACCEPTED.
- DRAWINGS SHOW EXISTING CONDITIONS IN DIAGRAMMATIC FORM. EXTENT OF SYSTEMS, SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
- FOR THE PURPOSE OF CLARIFICATION SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE SCOPE OF DEMOLITION.
- COORDINATE SHUT-DOWNS OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR THE DEMOLITION OF EXISTING WORK WITH THE OWNER. PROVIDE PRIOR NOTIFICATION OF SUCH SHUT-DOWNS. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.
- REFER TO ARCHITECTURAL PLANS FOR CEILING AND WALL WORK IN THE AREA OF WORK. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE, RESTORE, CUT, CORE, PATCH, PAINT, ETC. OF ANY CEILING AND WALL WORK THAT NOT SHOWN ON THE ARCHITECTURAL PLAN. THE CONTRACTOR SHALL DOCUMENT ANY DAMAGED CEILING AND WALL PRIOR TO COMMENCING THE WORK.
- DEAD ENDS SHALL NOT EXCEED 2'-0".
- CONTRACTOR SHALL TURN OVER THE GLASS WASTE/VENT PIPING TO THE OWNER OR DISPOSE, AS DIRECTED.

KEY NOTES

- DO NOT DISCONNECT / DISTURB THE PLUMBING SERVICES TO THE PLUMBING FIXTURE. NOT IN SCOPE.
- EXISTING SINK TO BE DISCONNECT AND REMOVE. REMOVE EXISTING FAUCET, ASSOCIATED PIPING AND THE ELEVATED VACUUM BREAKER ON THE WALL. REMOVE PLUMBING PIPING (OF SYSTEM INDICATED) DOWN TO FIRST FLOOR CEILING. REPAIR THE AFFECTED SURFACES TO MATCH THE EXISTING.
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- DISCONNECT EXISTING FLOOR DRAIN/OPEN SITE DRAIN FROM WASTE PIPING AND REMOVE. REMOVE THE WASTE AND VENT PIPING TO THE ACTIVE LINE. REPAIR THE AFFECTED SURFACES TO MATCH THE EXISTING.
- DISCONNECT EXISTING FLOOR DRAIN FROM WASTE PIPING AND REMOVE. REMOVE THE WASTE AND VENT PIPING TO THE ACTIVE LINE. DO NOT PATCH THE FLOOR AS EXISTING FLOOR PENETRATION CAN BE USE FOR NEW INSTALLATION.
- DISCONNECT CW TO THE EXISTING FUME HOOD. REMOVE THE WASTE AND VENT PIPING UP TO THE ACTIVE LINE AND CAP. REMOVE DOMESTIC WATER PIPING BACK TO BRANCH/MAIN PIPING WITH NEW ISOLATION VALVE AND CAP. TURN OVER THE GLASS PIPING TO THE OWNER OR DISPOSE, AS DIRECTED.

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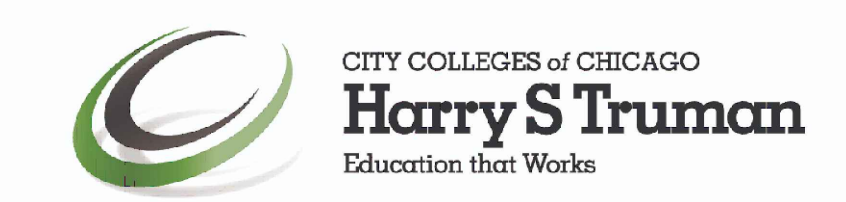
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PLUMBING
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DEMOLITION PLAN

P1-1

SEAL

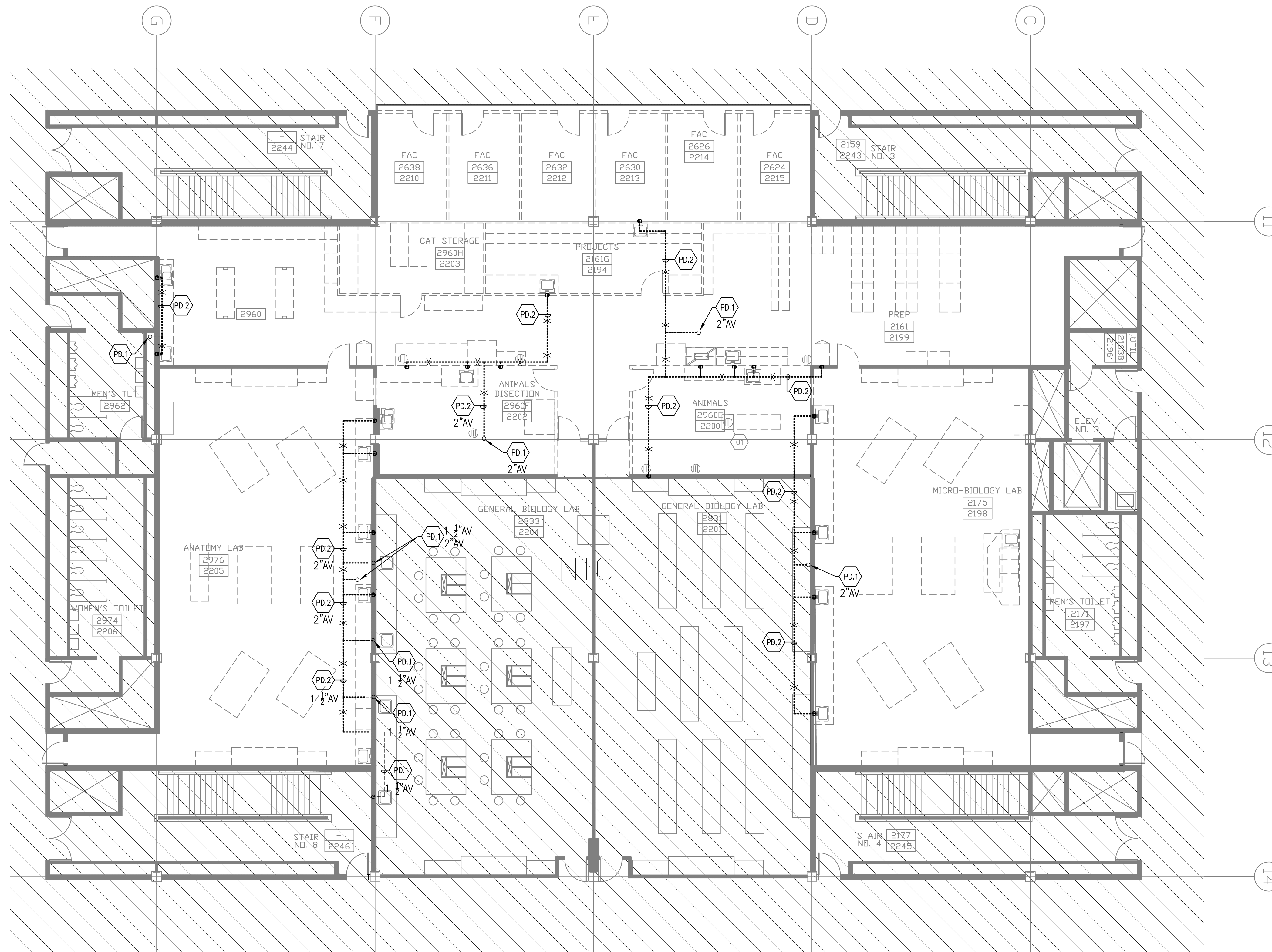
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- DEAD ENDS SHALL NOT EXCEED 2'-0".
- CONTRACTOR SHALL TURN OVER THE GASS WASTE/VENT PIPING TO THE OWNER OR DISPOSE, AS DIRECTED.

PLAN NOTES

- EXISTING PLUMBING ACID VENT PIPING (OF SIZE INDICATED) TO REMAIN.
- REMOVE EXISTING ACID VENT PIPING (OF SIZE INDICATED).

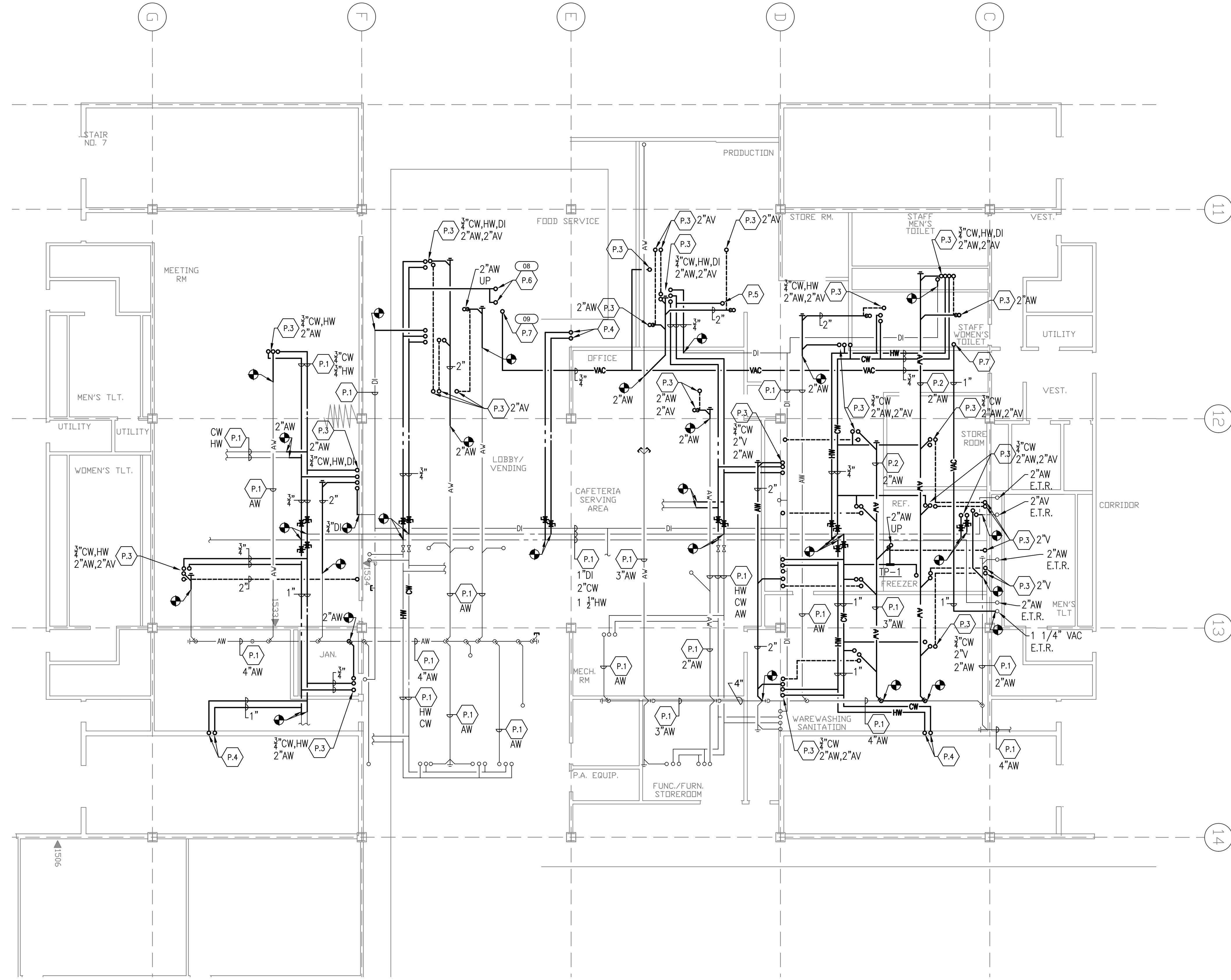


RENOVATION GENERAL NOTES

- THESE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. SOME EXISTING CONDITIONS ARE SHOWN ON THE DRAWINGS IN DIAGRAMMATIC FORM. ALL EXISTING SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
- THIS CONTRACTORS TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
- SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
- COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
- INSTALL ALL WORK AS TIGHT TO BOTTOM OF EXISTING STRUCTURE AS POSSIBLE.
- REINFORCEMENT MUST BE LOCATED BY NON-DESTRUCTIVE MEANS SUCH AS THE USE OF A TACHOMETER. INVESTIGATION MUST BE PERFORMED ON THE TOP AND BOTTOM OF THE SLAB. CONTACT STRUCTURAL ENGINEER PRIOR TO CUTTING OR CORING IF SIZE OF OPENING REQUIRES CUTTING REINFORCEMENT.
- FUTURE CAPPED CONNECTIONS ARE TO BE INSTALLED IN ACCORDANCE WITH THE ILLINOIS PLUMBING CODE HAVING A DEVELOPED LENGTH NOT EXCEEDING 2 FT.
- COVER ALL EXISTING FLOOR DRAINS AND CLEANOUTS DURING CONSTRUCTION PERIOD. RE-ADJUST THE EXISTING FLOOR DRAINS AND CLEANOUTS AS REQUIRED TO MATCH THE NEW FLOOR HEIGHT.

KEY NOTES

1. EXISTING PLUMBING PIPING (OF SYSTEM INDICATED) TO REMAIN.
2. ROUTE THE PLUMBING PIPING (OF SIZE AND SYSTEM INDICATED). HUNG FROM BUILDING STRUCTURE.
3. ROUTE THE PLUMBING PIPING (OF SIZE AND SYSTEM INDICATED) UP.
4. 1" CW & 1" HW UP TO SERVE THE EMERGENCY SHOWER. REFER TO 2ND FLOOR PLAN DRAWING P2-1 FOR MORE INFORMATION.
5. 1/2" CW UP TO ICE MAKER WITH SHUT-OFF VALVE AND ASSE 1022 BACKFLOW PREVENTER. CONNECT A DRAIN LINE AT THE VENT OUTLET SIZE AND ROUTE TO THE OPEN SITE DRAIN. ALLOW 1" AIR GAP.
6. 3/4" CW & 3/4" HW UP TO FUME HOOD. COORDINATE THE FLOOR PENETRATION WITH FUME HOOD AT THE SITE.
7. 3/4" VAC. PIPING UP. COORDINATE THE PIPE PENETRATION WITH CASEWORK/FUME HOOD ABOVE. PROVIDE SHOT-OFF VALVE AT THE INSIDE THE CASE AND MAKE FINAL CONNECT TO THE VAC. OUTLET.



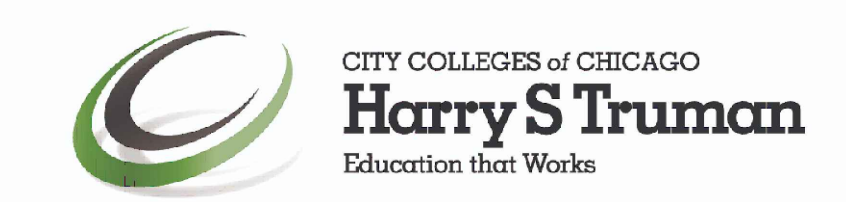
1 PLUMBING FIRST FLOOR CEILING PLAN
1/8" = 1'-0"

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PLUMBING FIRST FLOOR CEILING PLAN
P2-0

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- THIS CONTRACTORS TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
- SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
- COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
- INSTALL ALL WORK TIGHT TO BOTTOM OF EXISTING STRUCTURE.
- REINFORCEMENT MUST BE LOCATED BY NON-DESTRUCTIVE MEANS SUCH AS THE USE OF A TACHOMETER. INVESTIGATION MUST BE PERFORMED ON THE TOP AND BOTTOM OF THE SLAB. CONTACT STRUCTURAL ENGINEER PRIOR TO CUTTING OR CORING IF SIZE OF OPENING REQUIRES CUTTING REINFORCEMENT.
- FUTURE CAPPED CONNECTIONS ARE TO BE INSTALLED IN ACCORDANCE WITH THE ILLINOIS PLUMBING CODE HAVING A DEVELOPED LENGTH NOT EXCEEDING 2 FT.
- COVER ALL EXISTING FLOOR DRAINS AND CLEANOUTS DURING CONSTRUCTION PERIOD. RE-ADJUST THE EXISTING FLOOR DRAINS AND CLEANOUTS AS REQUIRED TO MATCH THE NEW FLOOR HEIGHT.

KEY NOTES

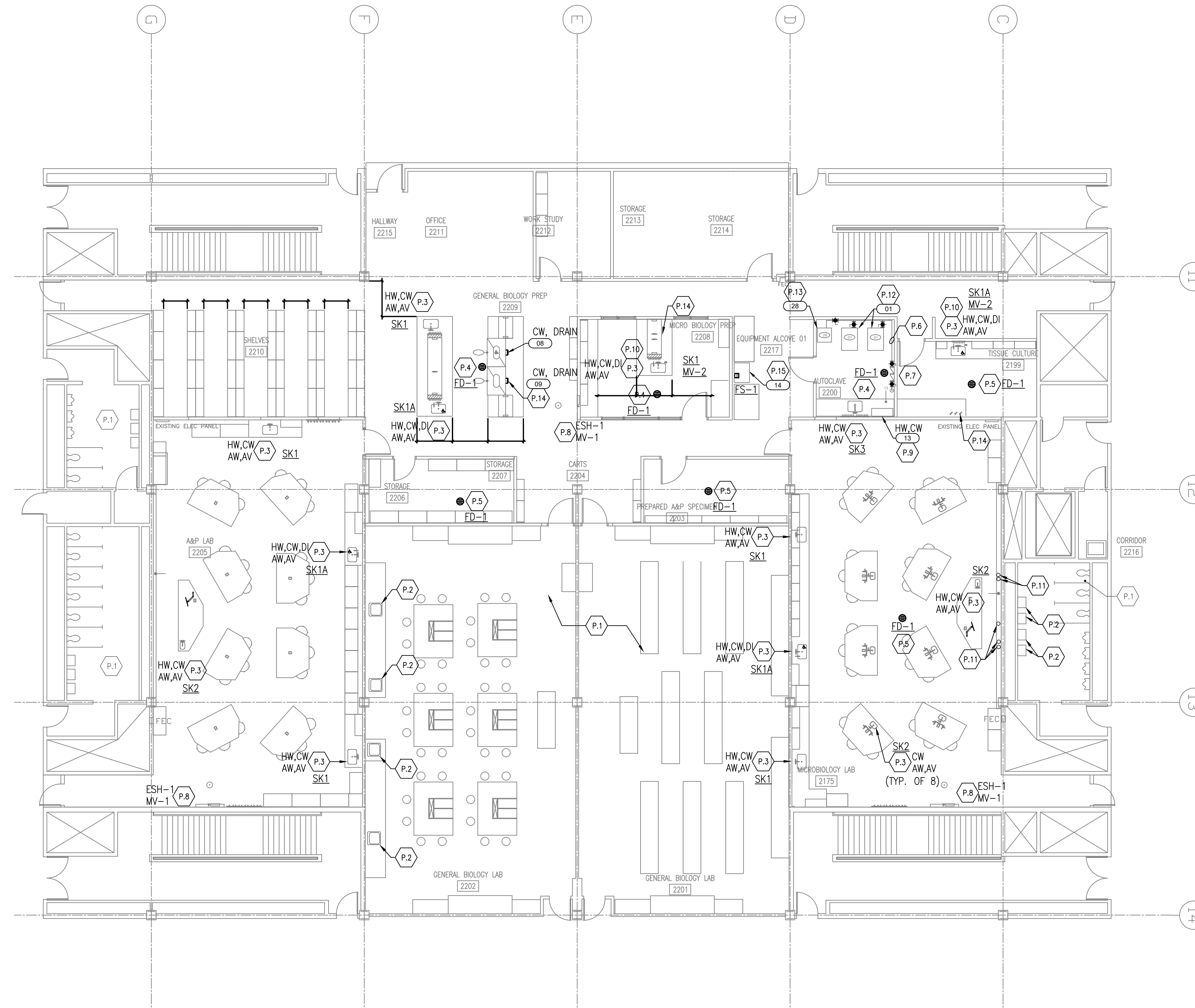
1. DO NOT DISCONNECT / DISTURB THE PLUMBING SERVICES TO THE PLUMBING FIXTURE.
2. EXISTING PLUMBING FIXTURE TO REMAIN. NOT IN SCOPE.
3. PROVIDE ALL THE PLUMBING SERVICE (OF SYSTEMS INDICATED) TO THE NEW SINK. REFER TO 1ST FLOOR CEILING PLAN DRAWING P2-0 FOR PIPE ROUTING. REFER TO PLUMBING SCHEDULE AND RISERS DIAGRAM FOR MORE INFORMATION.
4. INSTALL NEW FLOOR DRAIN. PROVIDE ACID WASTE AND VENT PER SPECIFICATION. REFER TO 1ST FLOOR CEILING PLAN DRAWING P2-0 FOR PIPE ROUTING.
5. INSTALL NEW FLOOR DRAIN, IN THE SAME LOCATION AS EXISTING. PROVIDE ACID WASTE AND VENT PER SPECIFICATION. REFER TO 1ST FLOOR CEILING PLAN DRAWING P2-0 FOR ROUTING.
6. POLYPROPYLENE DI WATER PIPING, VALVES AND FITTINGS. COORDINATE WITH LAB EQUIPMENT CONTRACTOR.
7. 3/4" HW AND CW RPZ AT 3'-0" ABOVE THE FLOOR.
8. ROUTE 1" CW AND 1" HW FROM FLOOR BELOW UP TO CEILING OF 2ND FLOOR AND BOTTOM OF THE SLAB. CONTACT STRUCTURAL ENGINEER PRIOR TO CUTTING OR CORING IF SIZE OF OPENING REQUIRES CUTTING REINFORCEMENT.
9. ROUTE 1/2" HW TO GLASS WASHER LABORATORY FURNITURE GWH-01. PROVIDE AIR GAP AT DISCHARGE.
10. PROVIDE 1/2" HOT AND COLD WATER FOR MV-2 AND ROUTE TO EMERGENCY EYE WASH. COORDINATE THE MV-2 LOCATION AT BACK OF THE CABINET IN FIELD. EMERGENCY EYE WASH PROVIDED BY OTHERS, INSTALLED BY PLUMBER.
11. 2" AV UP AND DN. WIN WALL CAVITY.
12. PROVIDE 1/2" CW AND 1/2" HW FOR AUTOCLAVE AUTO-91A. MAKE THE FINAL CONNECTION TO THE UNIT.
13. PROVIDE 1/2" CW FOR RO WATER POLISHER POR-91. MAKE THE FINAL CONNECTION TO THE UNIT.
14. COORDINATE THE VAC. PIPING AND THE SHOT-OFF VALVE AT THE INSIDE THE CASE AND MAKE FINAL CONNECT TO THE VAC. OUTLET.
15. PROVIDE 1/2" CW FOR ICE MACHINE WITH SHUT-OFF VALVE AND ASSE 1022 BACKFLOW PREVENTER (BF). COORDINATE THE FINAL LOCATION OF THE VALVE AND BACKFLOW PREVENTER INSIDE ALONG THE BACK OF THE BASE CABINET IN THE FIELD WITH THE GENERAL CONTRACTOR. CONNECT A DRAIN LINE TO THE BACKFLOW PREVENTER VENT AND ROUTE TO THE OPEN DRAIN OSD AND TERMINATE WITH THE CODE REQUIRED FIXED AIR GAP. MAKE FINAL CONNECTION TO THE ICE MACHINE.

THIS DWG NEEDS CLOSE COORDINATION WITH LABORATORY FURNITURE DRAWINGS. LABORATORY FURNITURE DRAWING WILL GOVERN OVER PLUMBING IF THERE IS DISCREPANCY.

LABORATORY FURNITURE TAGGED WITH A OVAL AND A NUMBER INSIDE CORRESPOND TO LABORATORY FURNITURE EQUIPMENT SHOWN ON THE LABORATORY FURNITURE EQUIPMENT DRAWING. PLUMBING CONTRACTOR TO INSTALL AND PIPE THE LABORATORY EQUIPMENT AS INDICATED ON THE LABORATORY FURNITURE DRAWING.

THE PLUMBING CONTRACTOR SHALL REFER TO LABORATORY FURNITURE PLAN FOR EXACT LOCATION, SIZE AND ROUGH-IN FOR REQUIRED PLUMBING CONNECTION.

FOR ALL THE LABORATORY PROVIDED BY OWNER & INSTALLED BY PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL PIPE, FITTINGS, VALVE ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. PLUMBING CONTRACTOR TO COORDINATE ACTUAL FINAL CONNECTION REQUIREMENTS WITH THE LABORATORY EQUIPMENT SUPPLIER AND LOCAL CODE.



1 PLUMBING SECOND FLOOR PLAN
1/8" = 1'-0"

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PLUMBING
SECOND FLOOR PLAN

P2-1

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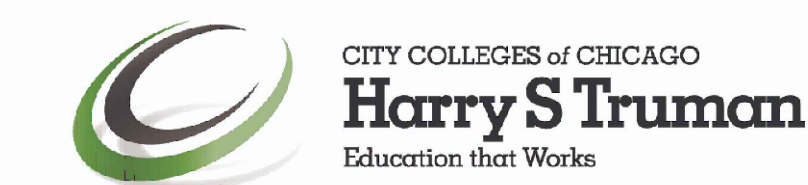
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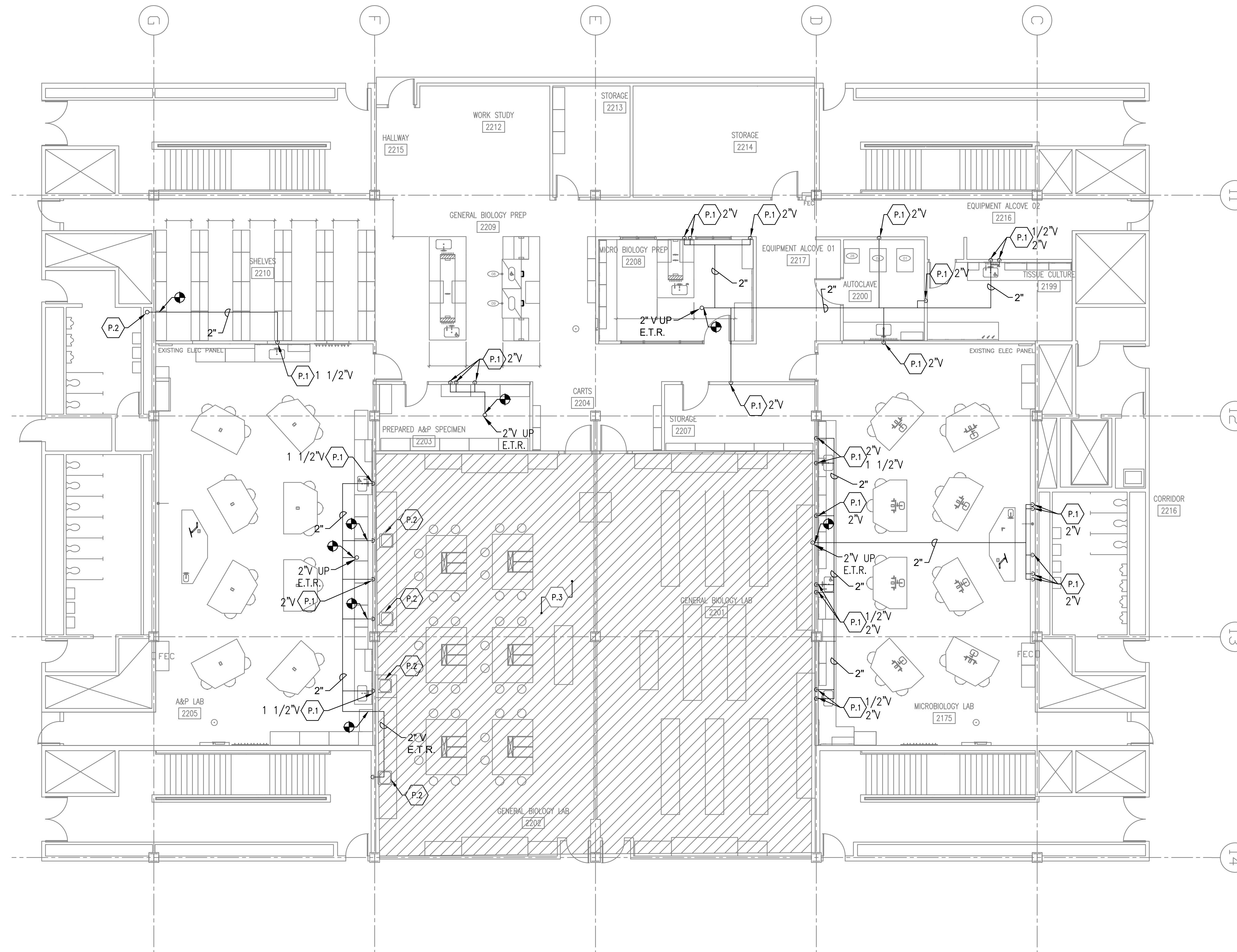
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- COVER ALL EXISTING FLOOR DRAINS AND CLEANOUTS DURING CONSTRUCTION PERIOD. RE-ADJUST THE EXISTING FLOOR DRAINS AND CLEANOUTS AS REQUIRED TO MATCH THE NEW FLOOR HEIGHT.

KEY NOTES

1. ROUTE PLUMBING PIPING (OF SIZE AND SYSTEM INDICATED) DN. TO THE PLUMBING FIXTURE. REFER TO THE RISER DIAGRAM FOR MORE INFORMATION.
2. EXISTING PLUMBING FIXTURE TO REMAIN.
3. DO NOT DISTURB PLUMBING SERVICE TO ANY PLUMBING FIXTURE IN THIS AREA.



1 PLUMBING SECOND FLOOR CEILING PLAN
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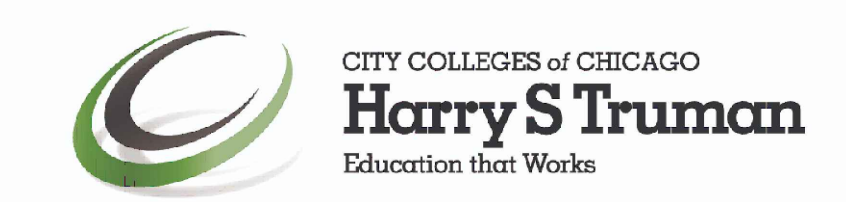
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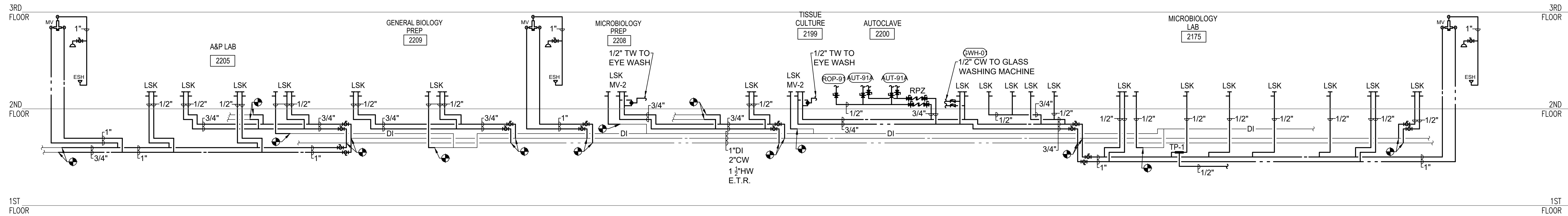
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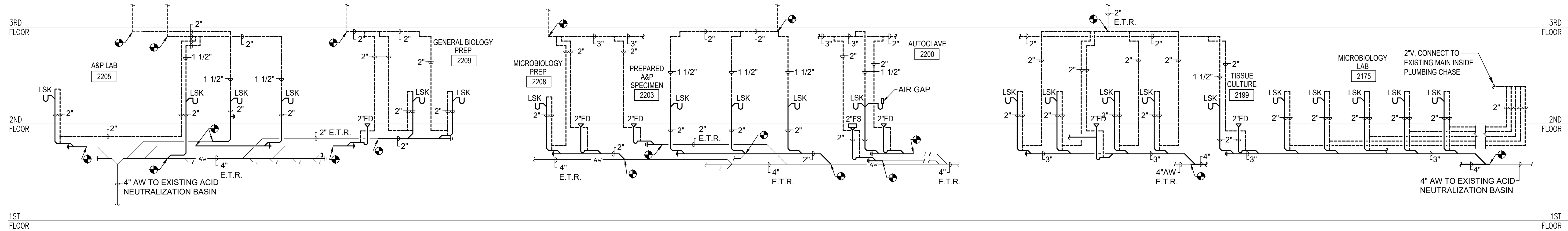


PLUMBING
SECOND FLOOR
CEILING PLAN
P2-2

| TAG | FIXTURE / EQUIPMENT | FIXTURE ROUGH-IN AND FINAL CONNECTIONS (MIN.) | | | | | | SPECIAL REQUIREMENTS |
|-----|---------------------|---|------|------|------|--------|--------|--|
| | | AIR CHAMBER | CWS | HWS | VENT | WASTE | P-TRAP | |
| LSK | LAB SINK | 1/2" | 1/2" | 1/2" | 2" | 1-1/2" | 1-1/2" | PROVIDE STOP VALVES AT CWS AND HWS ROUGH IN. PROVIDE POWERS MODEL LM490 THERMOSTATIC MIXING VALVE. |
| SS | SERVICE SINK | 3/4" | 3/4" | 3/4" | 2" | 3" | 3" | MOUNT VACUUM BREAKER AT 7'-6" AFF. |
| FD | FLOOR DRAIN | - | - | - | 2" | 2" | 2" | |
| EEW | EYE/FACE WASH | 1/2" | 1/2" | 1/2" | 2" | 2" | 2" | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



1 WATER RISER DIAGRAMS
P4-1 NOT TO SCALE



2 WASTE RISER DIAGRAMS
P4-1 NOT TO SCALE

| NO. | DATE | REVISIONS/ISSUANCES |
|-----|----------|---------------------|
| | 07/25/23 | ISSUE FOR BID |
| | 05/17/23 | ISSUE FOR 50% CD |

NO. DATE REVISIONS/ISSUANCES



CITY COLLEGES OF CHICAGO - TRUMAN COLLEGE

PROJECT NUMBER: 42242
PROJECT MANAGER:
ARCH/ENG:
SCALE:
DRAWN BY:
CHECKED BY:

PLUMBING RISER DIAGRAMS

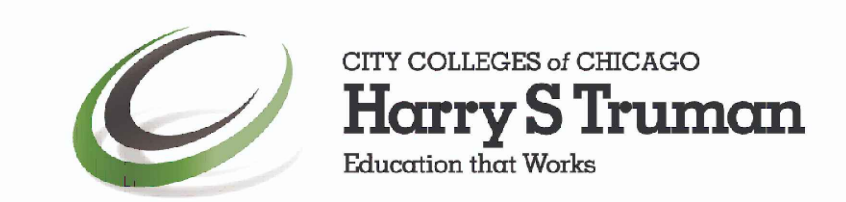
P4-1

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