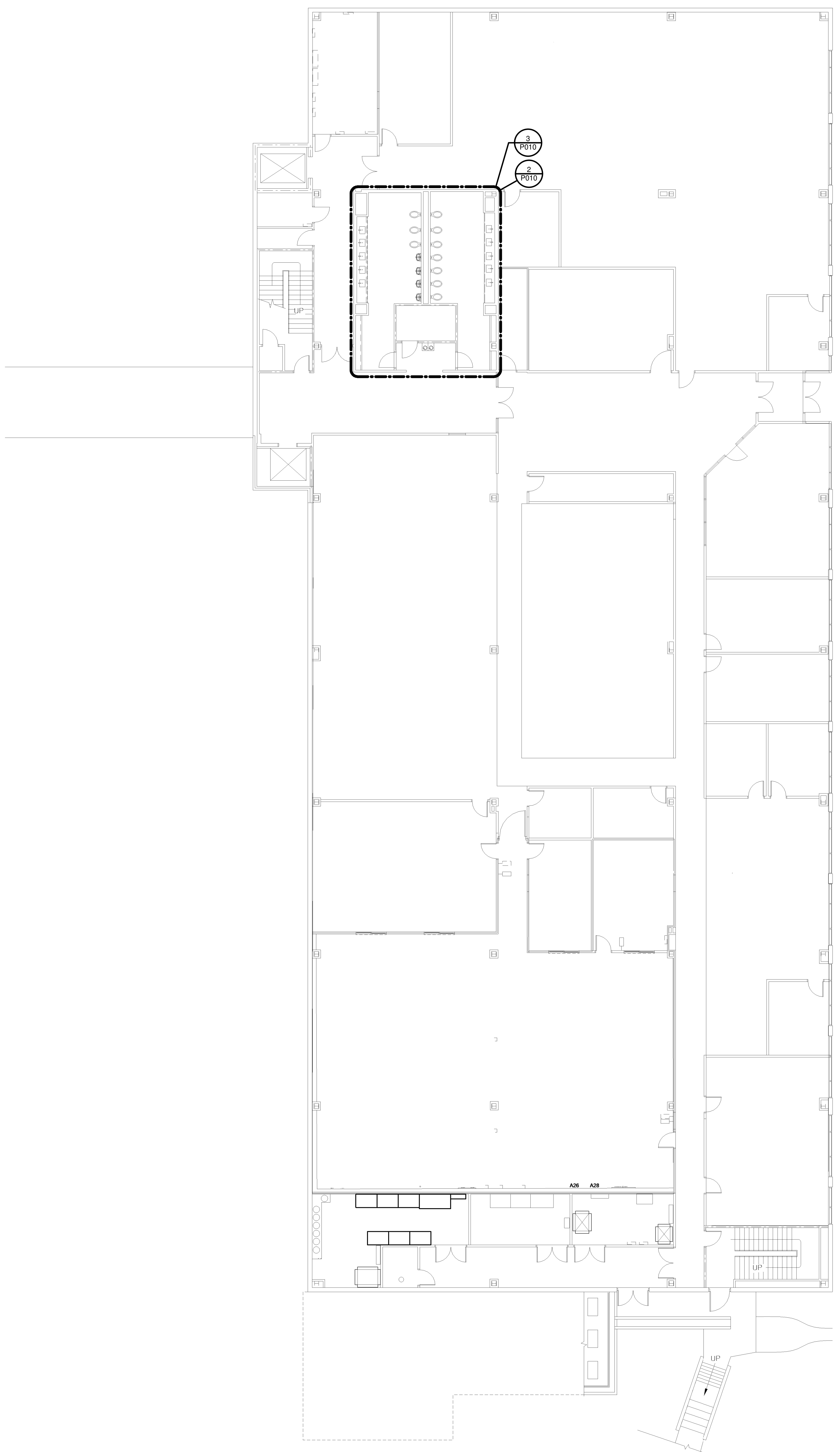
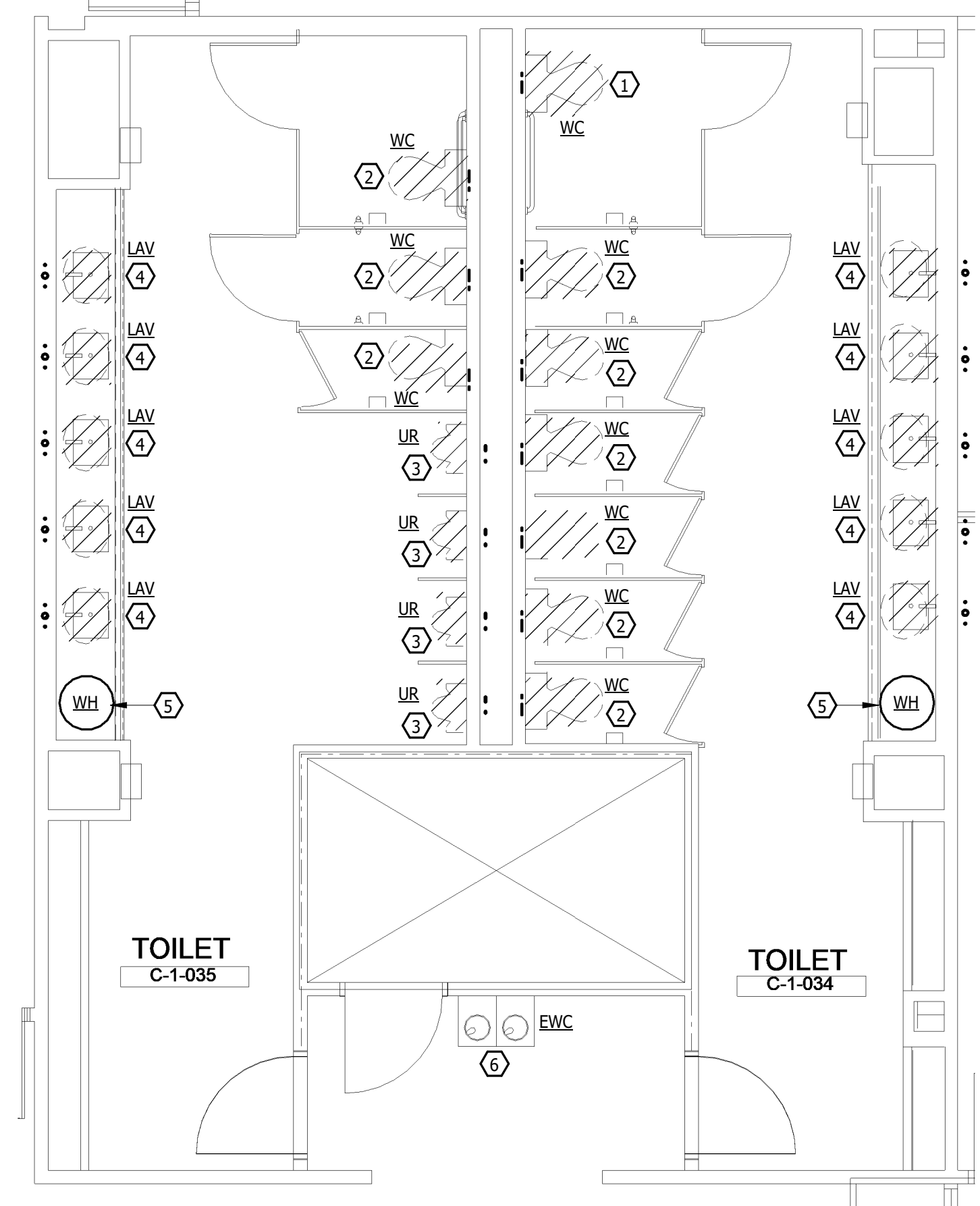


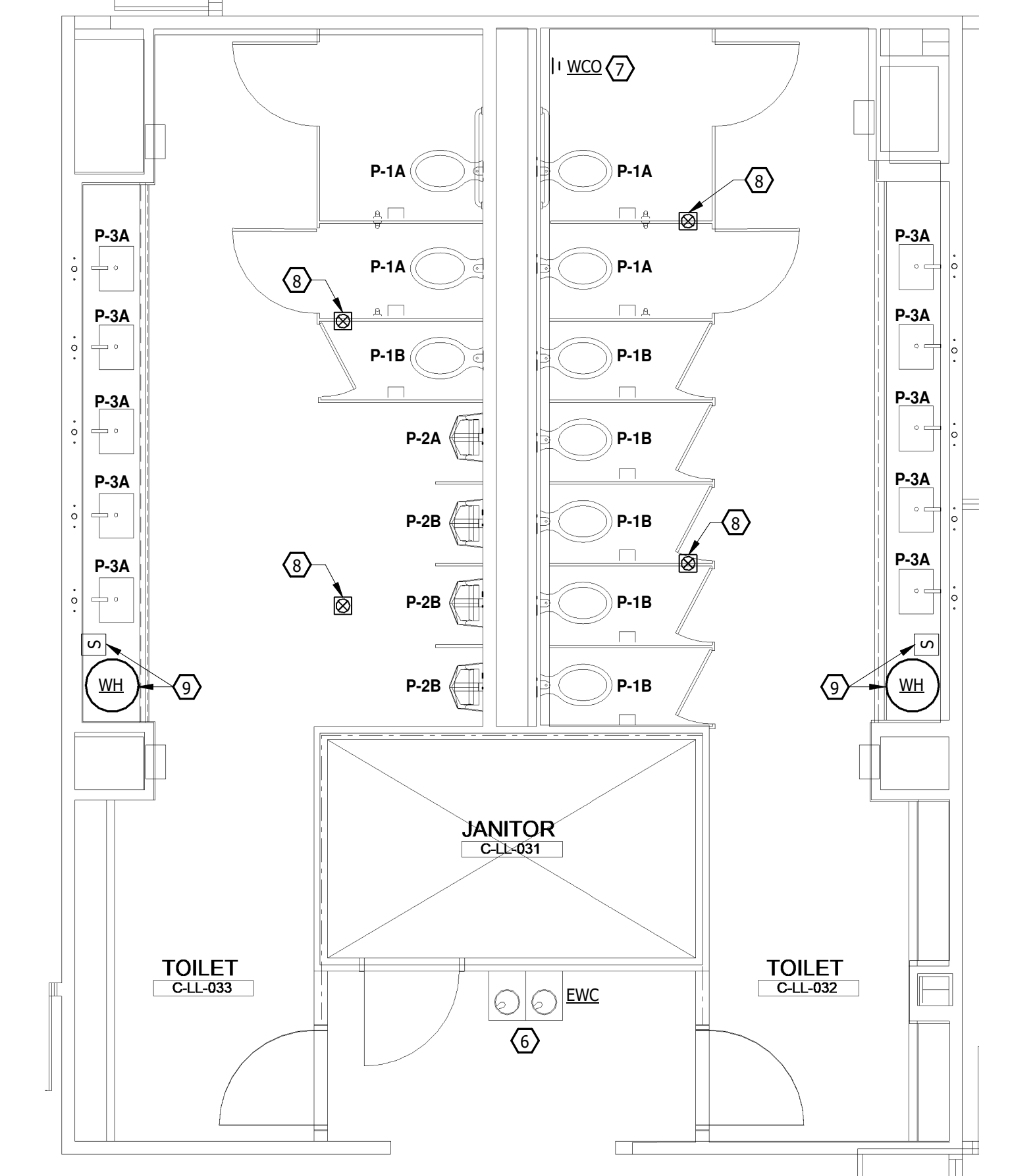
1  
E  
D  
C  
B  
A  
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**1 LOWER LEVEL - BUILDING C - PLUMBING PLAN**  
 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 16' 24'



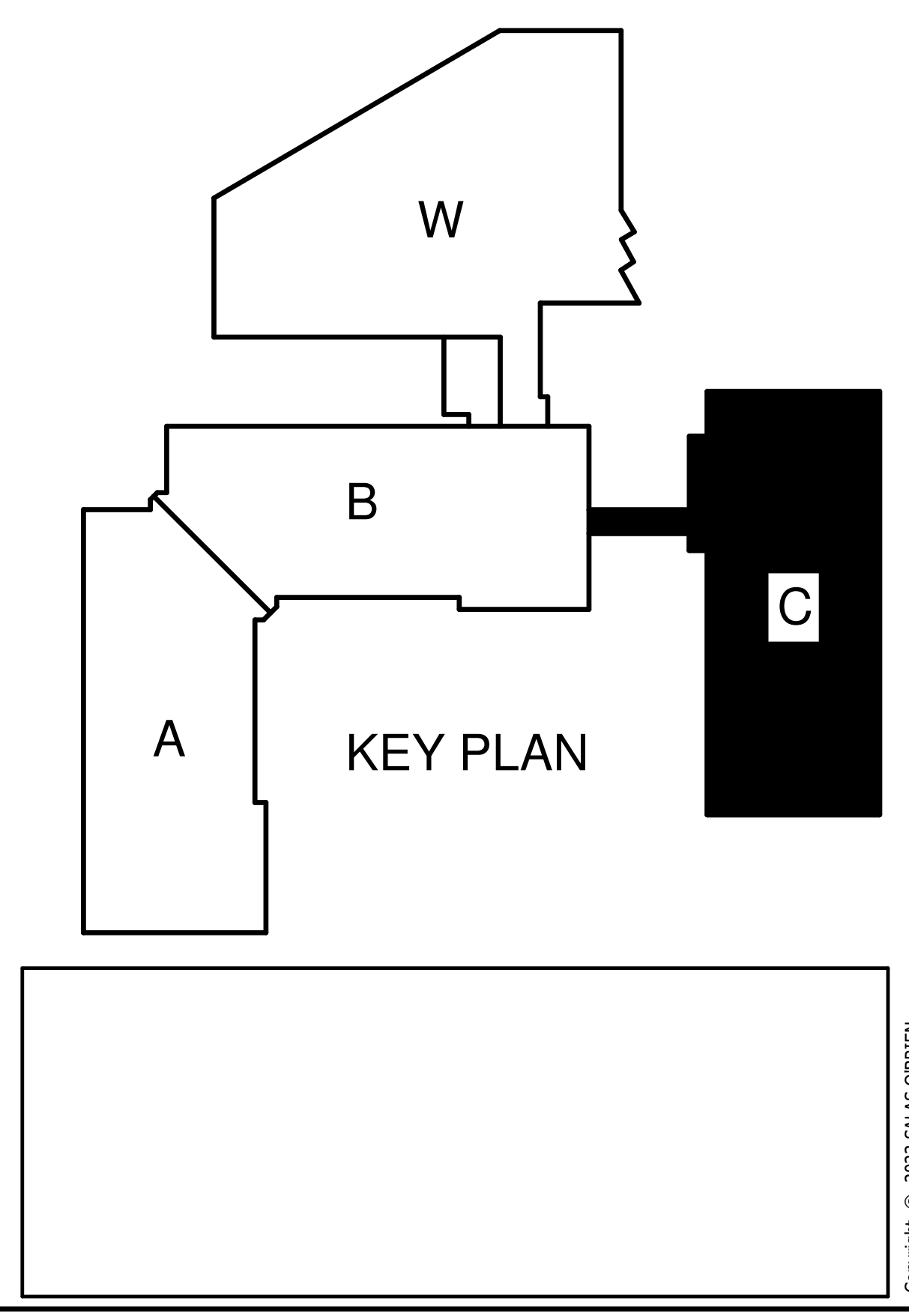
**2 ENLARGED PLAN - PLUMBING DEMOLITION**  
 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'



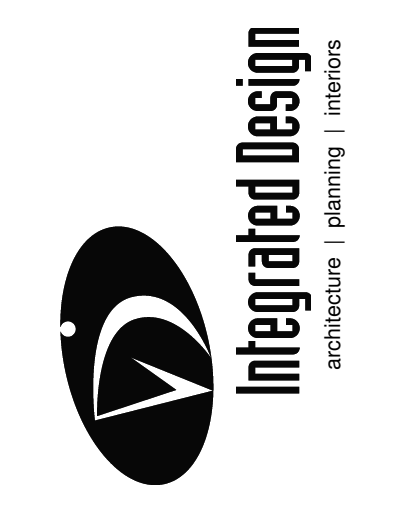
**3 ENLARGED PLAN - PLUMBING NEW WORK**  
 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'

**KEY NOTES TO P010**

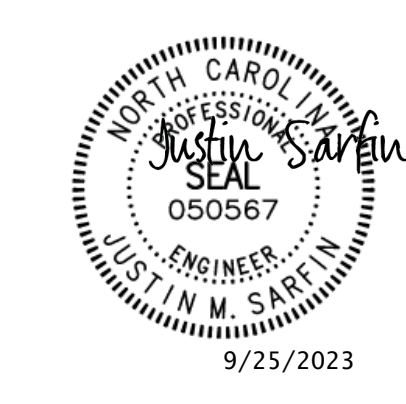
- 1 REMOVE EXISTING WATER CLOSET, NEW WALL CLEANOUT TO BE SHOWN IN ITS PLACE.
- 2 REMOVE THE EXISTING WATER CLOSET. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW WATER CLOSET.
- 3 REMOVE THE EXISTING URINAL. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW URINAL.
- 4 REMOVE THE EXISTING LAVATORY. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW LAVATORY.
- 5 EXISTING WATER HEATER TO REMAIN. THE CONTRACTOR SHALL COORDINATE REMOVING THE WATER HEATER TO WORK ON THE CASEWORK IN THE FIELD PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE FLEXIBLE PIPING OR ANY OTHER REQUIRED MATERIALS TO RE-CONNECT THE WATER HEATER TO THE EXISTING ROUGH-INS. THE CONTRACTOR SHALL ALSO PROVIDE A DRAIN PAN BELOW THE WATER HEATER WHEN PLACING INSIDE THE NEW CASEWORK.
- 6 EXISTING ELECTRIC WATER COOLER TO REMAIN.
- 7 PROVIDE A NEW WALL CLEANOUT WHERE THE PREVIOUS WATER CLOSET WAS LOCATED.
- 8 CONTRACTOR TO REPLACE EXISTING FLOOR DRAIN STRAINER WITH STAINLESS STEEL STRAINER.
- 9 THE CONTRACTOR SHALL ADD A SERVICE DISCONNECT SWITCH AND BRANCH CIRCUIT CONNECTION TO THE EXISTING WATER HEATER. THIS SWITCH MAY BE A TOGGLE TYPE DEVICE. CONFIRM VOLTAGE AND RATING TO MATCH EQUIPMENT NAMEPLATE.



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FACILITY IMPROVEMENTS FOR:  
**NORTH CAROLINA JUDICIAL CENTER  
 TOILET IMPROVEMENTS**  
 901 CORPORATE CENTER DRIVE  
 RALEIGH, NC

DWG BY: BME  
 CHK BY: JMS

DATE:  
 07.28.2023

NO.	DATE	DESCRIPTION
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LOWER LEVEL  
 BUILDING C  
 FLOOR PLANS  
 AND ENLARGED  
 PLANS

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 DRAWING NUMBER

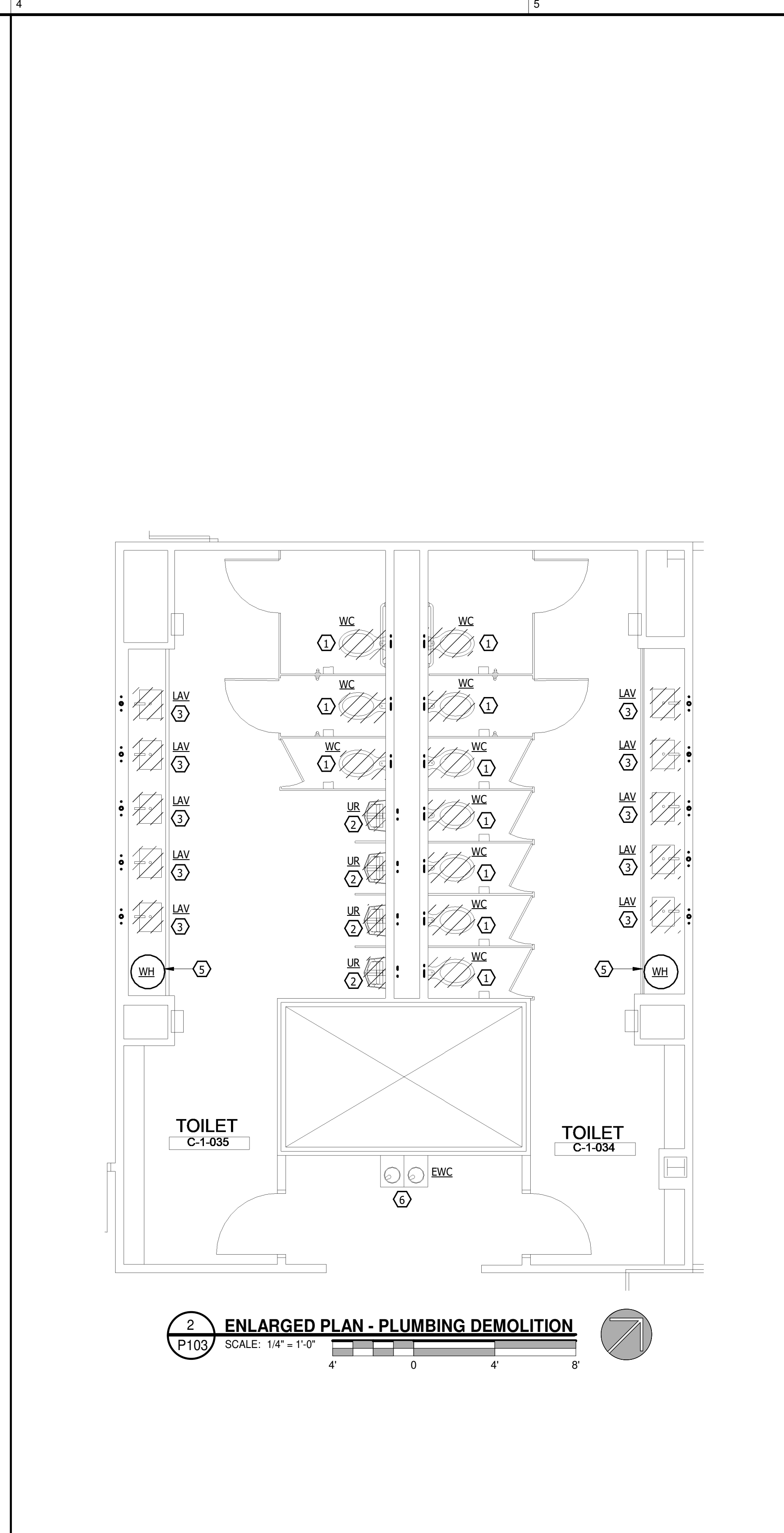
**P010**

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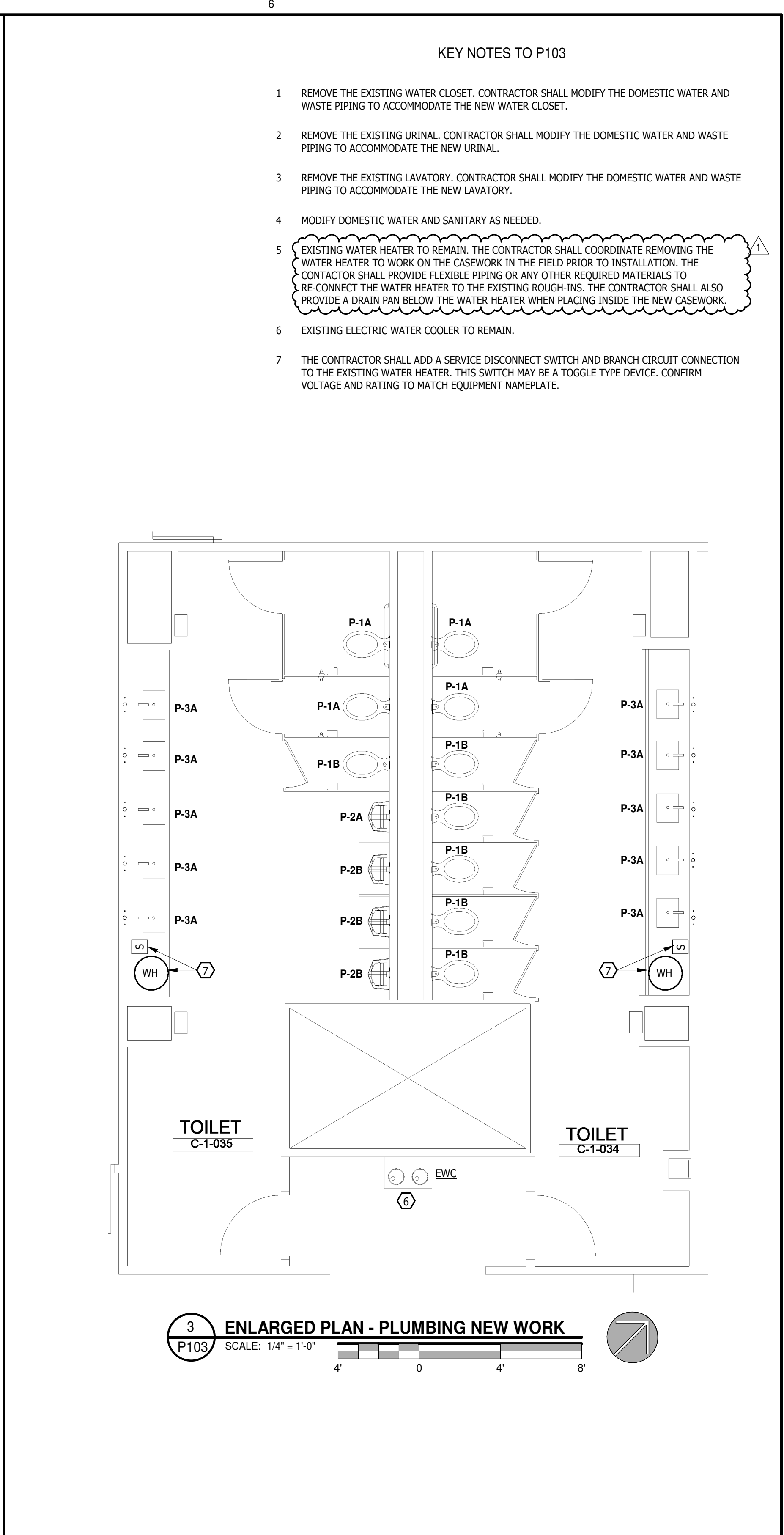


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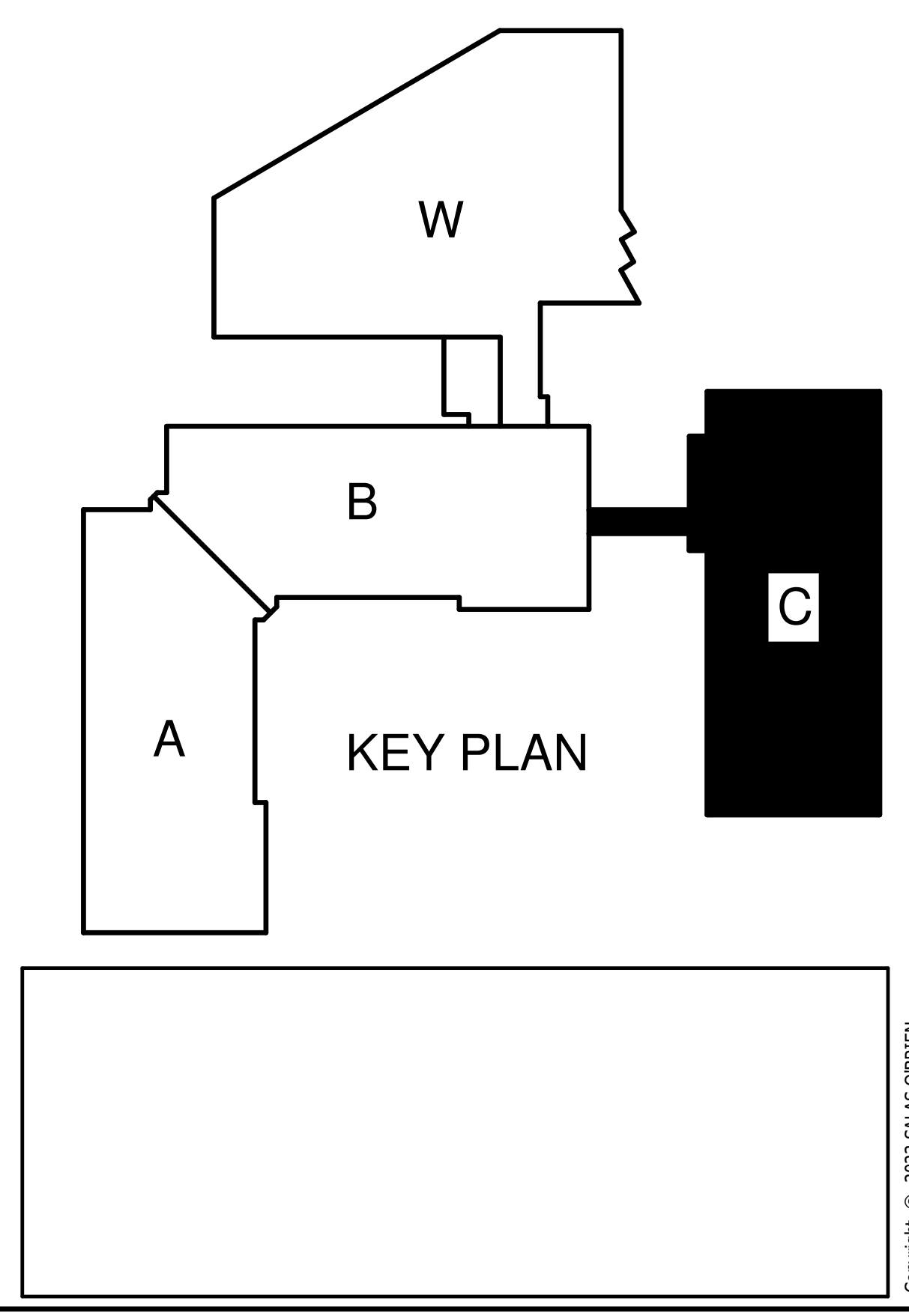
**1 FIRST FLOOR - BUILDING C - PLUMBING PLAN**  
SCALE: 3/32" = 1'-0"  
0 8' 16' 24'



**2 ENLARGED PLAN - PLUMBING DEMOLITION**  
SCALE: 1/4" = 1'-0"  
0 4' 8'



**3 ENLARGED PLAN - PLUMBING NEW WORK**  
SCALE: 1/4" = 1'-0"  
0 4' 8'



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**KEY NOTES TO P103**

- 1 REMOVE THE EXISTING WATER CLOSET. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW WATER CLOSET.
- 2 REMOVE THE EXISTING URINAL. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW URINAL.
- 3 REMOVE THE EXISTING LAVATORY. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW LAVATORY.
- 4 MODIFY DOMESTIC WATER AND SANITARY AS NEEDED.
- 5 EXISTING WATER HEATER TO REMAIN. THE CONTRACTOR SHALL COORDINATE REMOVING THE WATER HEATER TO WORK ON THE CASEWORK IN THE FIELD PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE FLEXIBLE PIPING OR ANY OTHER REQUIRED MATERIALS TO RE-CONNECT THE WATER HEATER TO THE EXISTING ROUGH-INS. THE CONTRACTOR SHALL ALSO PROVIDE A DRAIN PAN BELOW THE WATER HEATER WHEN PLACING INSIDE THE NEW CASEWORK.
- 6 EXISTING ELECTRIC WATER COOLER TO REMAIN.
- 7 THE CONTRACTOR SHALL ADD A SERVICE DISCONNECT SWITCH AND BRANCH CIRCUIT CONNECTION TO THE EXISTING WATER HEATER. THIS SWITCH MAY BE A TOGGLE TYPE DEVICE. CONFIRM VOLTAGE AND RATING TO MATCH EQUIPMENT NAMEPLATE.

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**FACILITY IMPROVEMENTS FOR:**  
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**TOILET IMPROVEMENTS**  
901 CORPORATE CENTER DRIVE  
RALEIGH, NC

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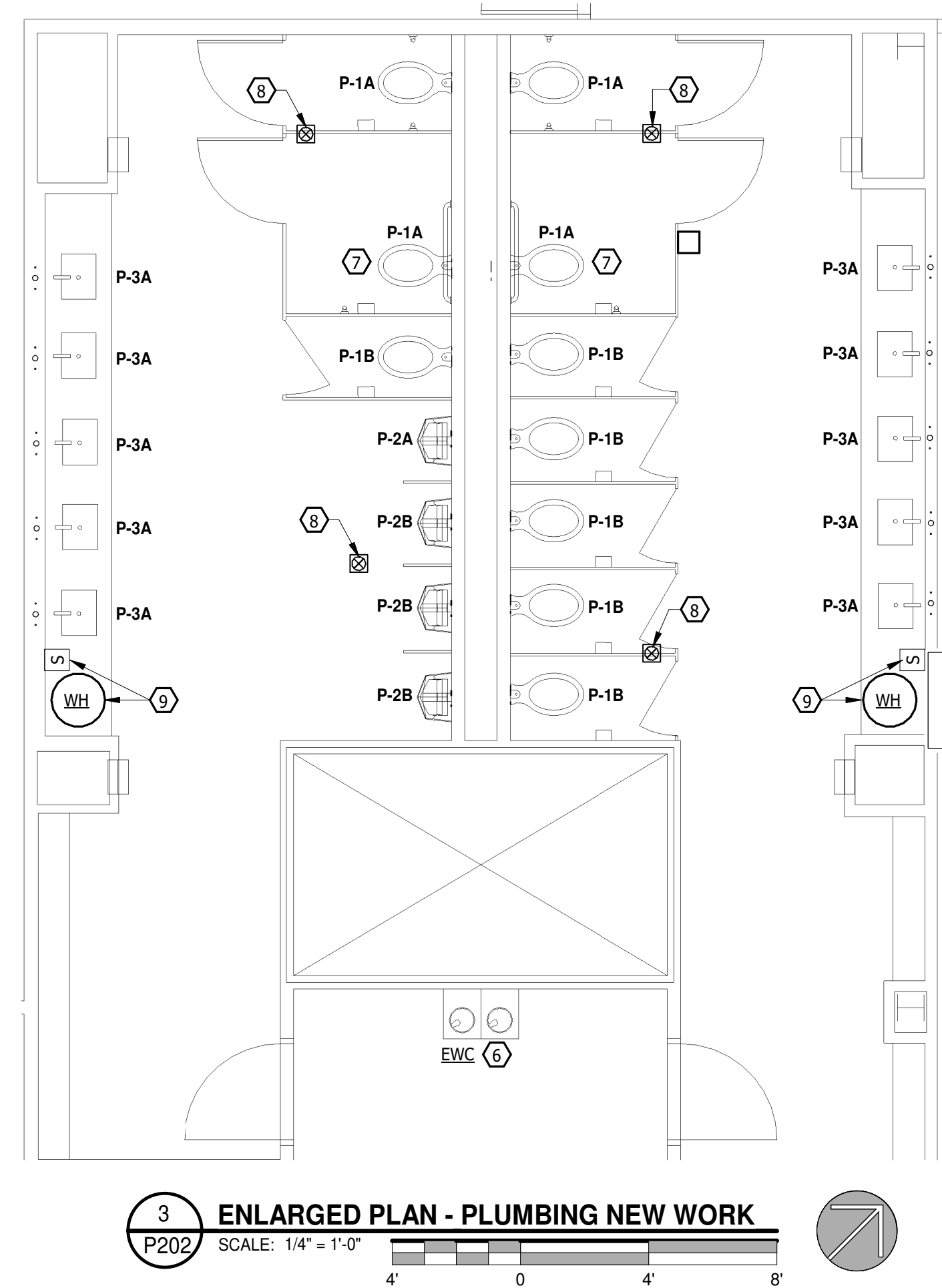
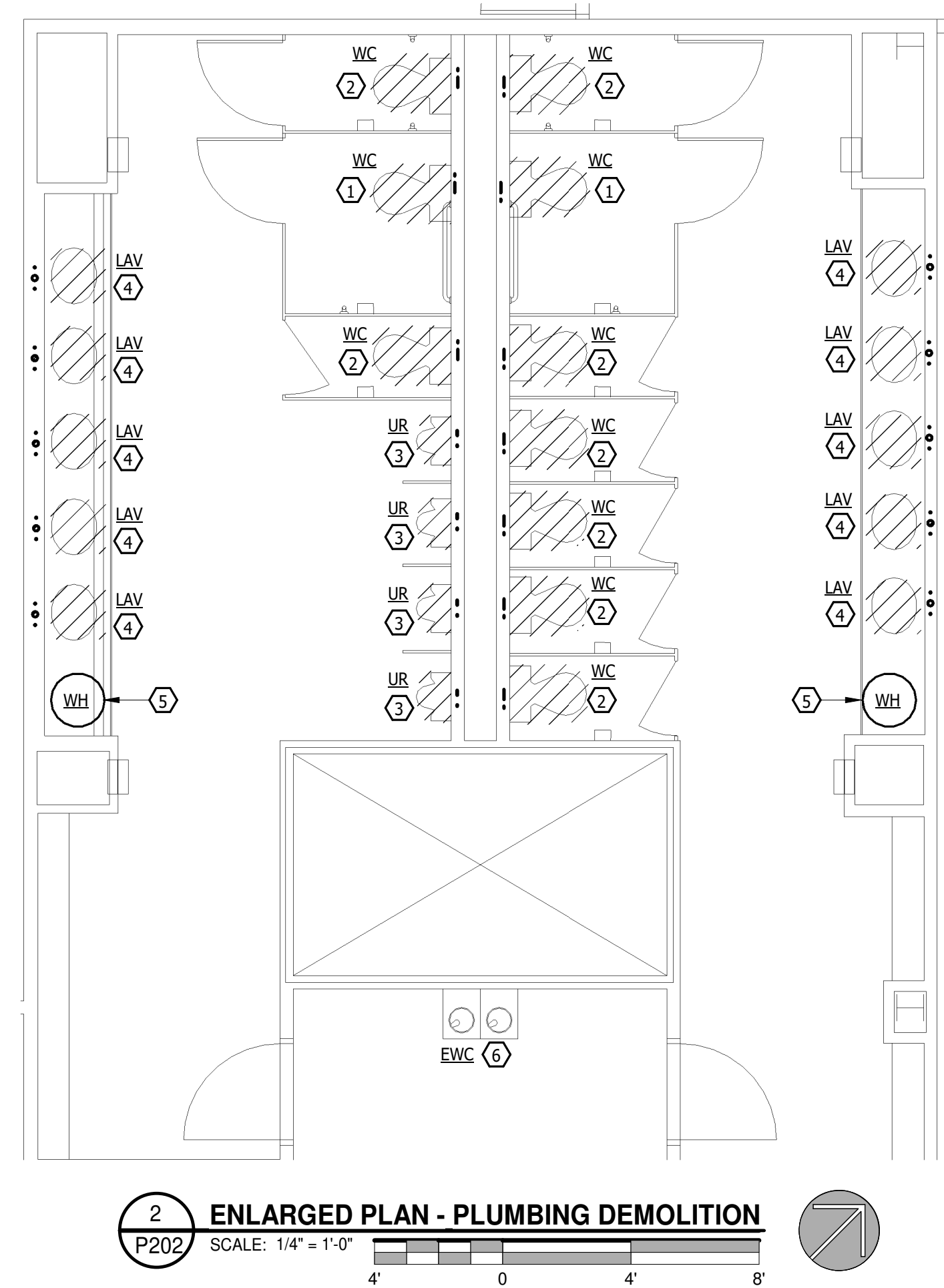
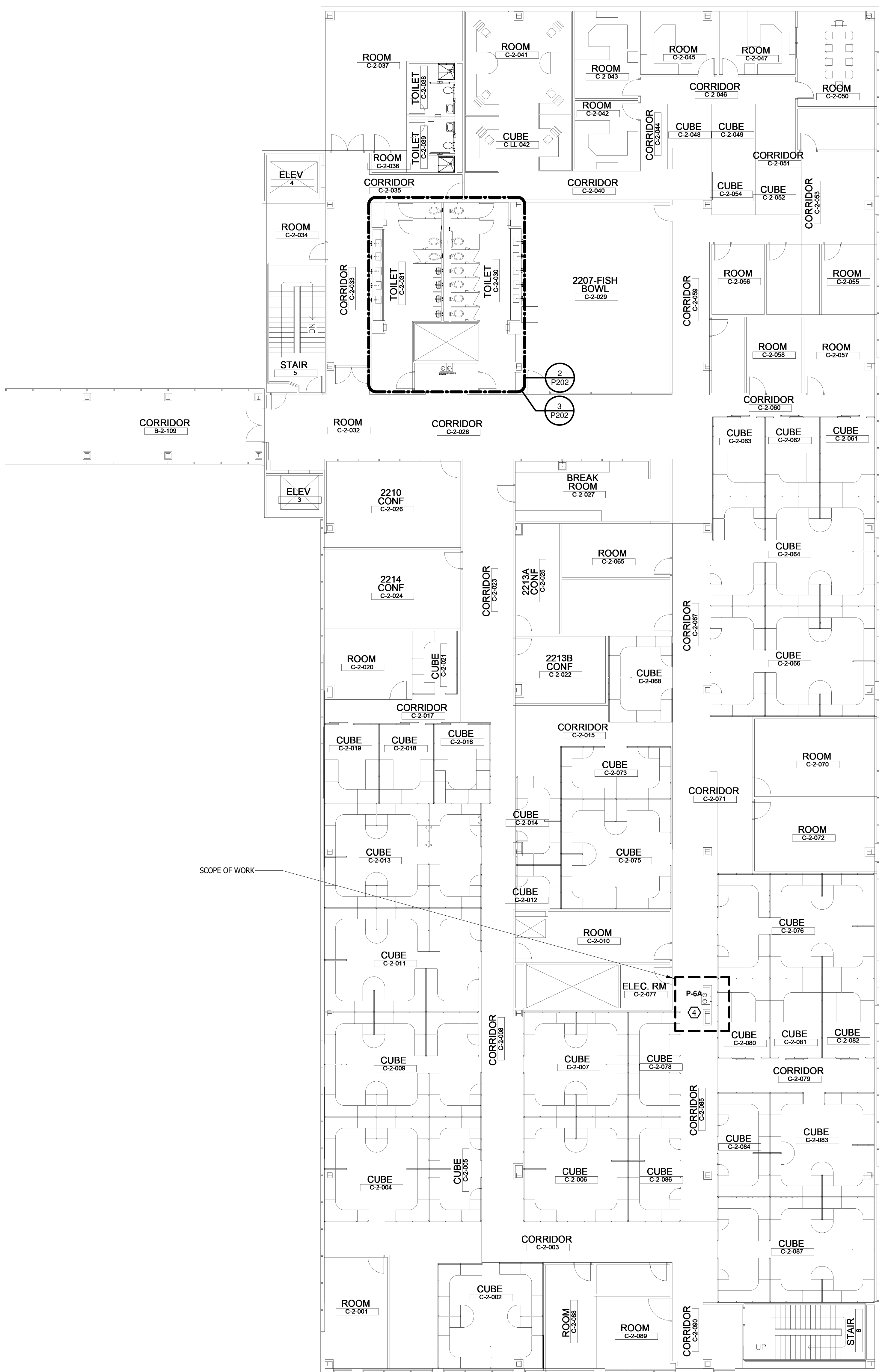
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Drawing scaled for 42x30 plots.

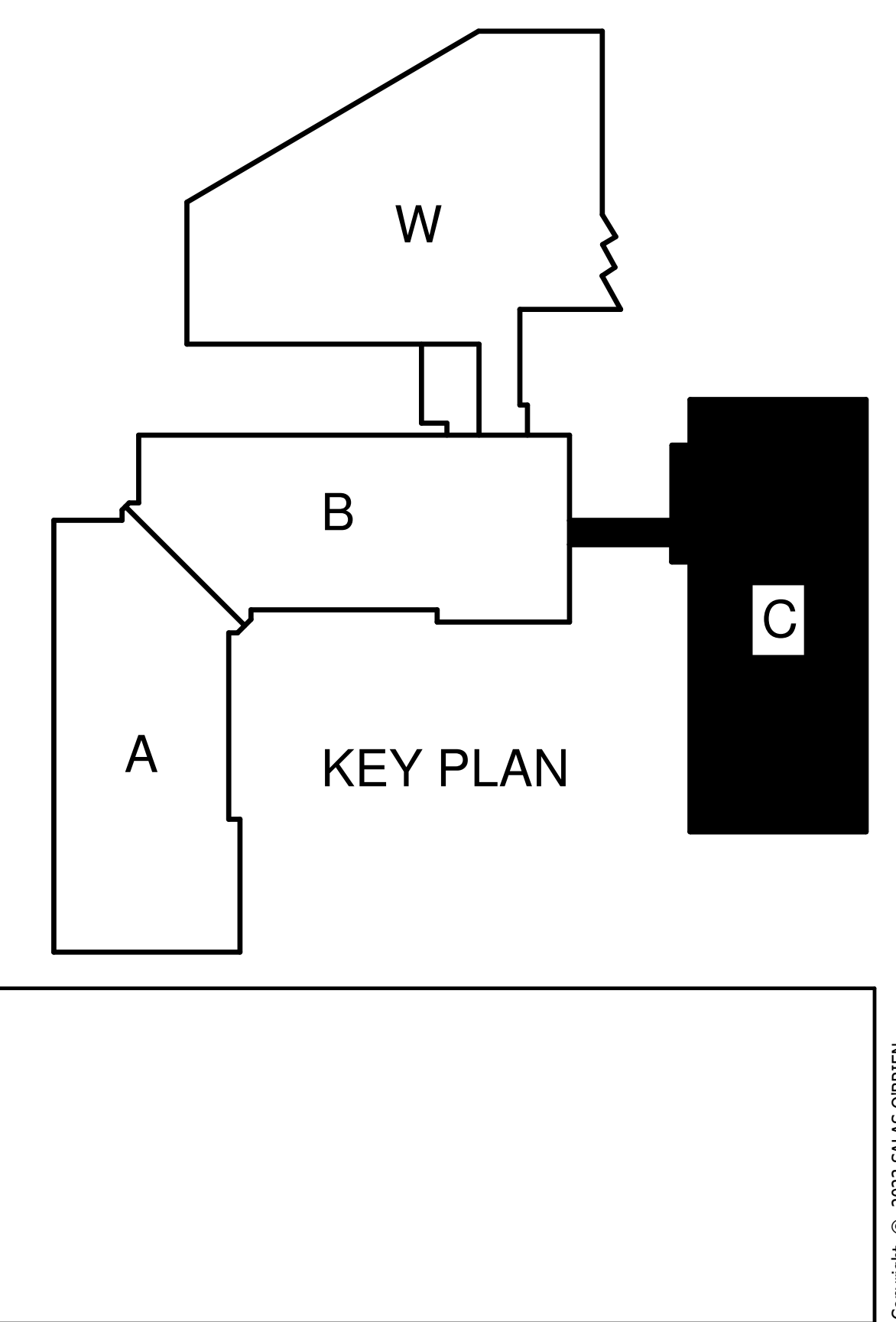
FIRST FLOOR  
BUILDING C  
FLOOR PLANS  
AND ENLARGED  
PLANS

JOB CODE: 2023-02594  
DRAWING NUMBER

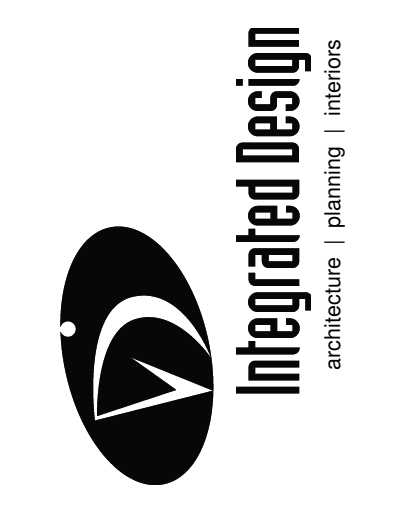
**P103**



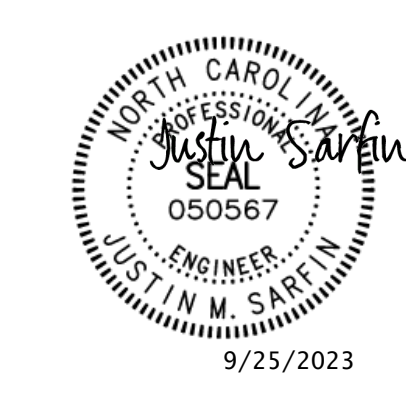
- KEY NOTES TO P202**
- REMOVE EXISTING WATER CLOSET, NEW WALL CLEANOUT TO BE SHOWN IN ITS PLACE.
  - REMOVE THE EXISTING WATER CLOSET. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW WATER CLOSET IF NECESSARY.
  - REMOVE THE EXISTING URINAL. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW URINAL IF NECESSARY.
  - REMOVE THE EXISTING LAVATORY. CONTRACTOR SHALL MODIFY THE DOMESTIC WATER AND WASTE PIPING TO ACCOMMODATE THE NEW LAVATORY IF NECESSARY.
  - EXISTING WATER HEATER TO REMAIN. THE CONTRACTOR SHALL COORDINATE REMOVING THE WATER HEATER TO WORK ON THE CASEWORK IN THE FIELD PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE FLEXIBLE PIPING OR ANY OTHER REQUIRED MATERIALS TO RE-CONNECT THE WATER HEATER TO THE EXISTING ROUGH-INS. THE CONTRACTOR SHALL ALSO PROVIDE A DRAIN PAN BELOW THE WATER HEATER WHEN PLACING INSIDE THE NEW CASEWORK.
  - EXISTING ELECTRIC WATER COOLER TO REMAIN.
  - CONNECT NEW FIXTURE INTO EXISTING WASTE MAIN.
  - CONTRACTOR TO REPLACE EXISTING FLOOR DRAIN STRAINER WITH STAINLESS STEEL STRAINER.
  - THE CONTRACTOR SHALL ADD A SERVICE DISCONNECT SWITCH AND BRANCH CIRCUIT CONNECTION TO THE EXISTING WATER HEATER. THIS SWITCH MAY BE A TOGGLE TYPE DEVICE. CONFIRM VOLTAGE AND RATING TO MATCH EQUIPMENT NAMEPLATE.



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FACILITY IMPROVEMENTS FOR:  
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 TOILET IMPROVEMENTS**  
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DWG BY: BME  
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**REVISIONS**

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1	9/25/2023	ADDENDUM #2

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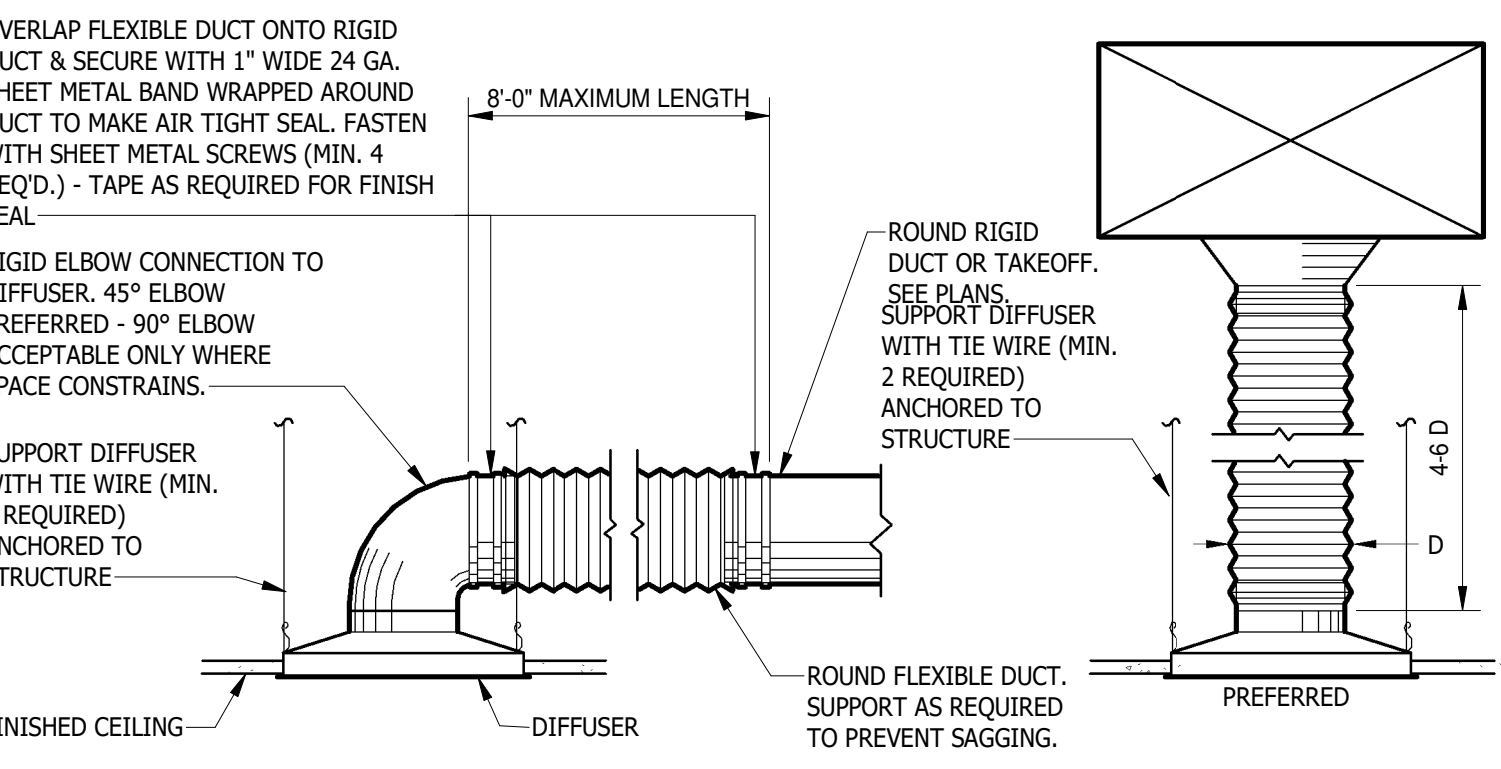
Drawing scaled for 42x30 plots.  
**SECOND FLOOR  
 BUILDING C  
 FLOOR PLANS  
 AND ENLARGED  
 PLANS**

JOB CODE: 2023-02594  
 DRAWING NUMBER

**P202**

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AIR DISTRIBUTION SCHEDULE								
DESIGNATION	SERVICE	TYPE	MAX. AIRFLOW (CFM)	FACE SIZE (INxIN, Ø IN)	NECK SIZE (INxIN, Ø IN)	APD (IN)	MAX. NC	VOL. CONTROL DAMPER (Y/N)
B1	SUPPLY	LOWERED	450	24x24	12	0.1	20	Yes
B2	SUPPLY	LOWERED	300	12x12	8	0.05	20	Yes
D1	SUPPLY	(2) 1" SLOTS	150	24x6	8	0.1	20	Yes
Z1	RETURN/EXHAUST	PERFORATED	1000	24x24	12x12	0.1	20	Yes
Z2	RETURN/EXHAUST	PERFORATED	220	12x12	8x8	0.1	20	Yes
Z3	RETURN/EXHAUST	PERFORATED	150	12x12	6x6	0.1	20	Yes



**1 CEILING DIFFUSER INSTALLATION**  
SCALE: NTS

**HVAC ABBREVIATIONS**

- Ø ROUND; DIAMETER; PHASE  
# POUNDS; NUMBER  
A COMPRESSED AIR  
ACFM ACTUAL CUBIC FEET PER MINUTE  
AK AIR CHANGE PER HOUR  
AD ACCESS DOOR  
IN INCH  
ID INDIRECT DRAIN; INSIDE DIAMETER  
AF ABOVE FINISHED CEILING  
AFF ABOVE FINISHED FLOOR  
AFG ABOVE FINISHED GRADE  
AHU AIR HANDLING UNIT  
ALT ALTERNATE  
ARCH ARCHITECTURAL; ARCHITECT  
AS AIR SEPARATOR  
AUTO AUTOMATIC  
AV ACID VENT  
AW ACID WASTE  
BAS BUILDING AUTOMATION SYSTEM  
BBD BOILER BLOWDOWN  
BBF BELOW FINISHED FLOOR  
BFW BOILER FEED WATER  
BHP BRAKE HORSEPOWER  
BOD BOTTOM OF DUCT  
BOP BOTTOM OF PIPE  
BOT BOTTOM  
BP BACKFLOW PREVENTER  
BTU BRITISH THERMAL UNIT  
BTUH BRITISH THERMAL UNIT PER HOUR  
C CELSIUS; COMMON PORT  
CD CONDENSATE DRAIN  
CDWP CONDENSER WATER PUMP  
CWR CONDENSER WATER RETURN  
CWS CONDENSER WATER SUPPLY  
CF CHEMICAL FEED  
CFM CUBIC FEET PER HOUR  
CFM CUBIC FEET PER MINUTE  
CHWP CHILLED WATER PUMP  
CHWR CHILLED WATER RETURN  
CHWS CHILLED WATER SUPPLY  
CI CAST IRON  
CLG CEILING  
CO CLEAN OUT; CARBON MONOXIDE  
CO2 CARBON DIOXIDE  
CONC CONCRETE  
COP COEFFICIENT OF PERFORMANCE  
CPVC CHLORINATED POLYVINYL CHLORIDE  
CT COOLING TOWER  
CTR CENTER  
CU COPPER; CONDENSING UNIT  
CUFT CUBIC FOOT; CUBIC FEET  
CUH CABINET UNIT HEATER  
CUPD CUBIC FOOT PER DAY  
CW COLD WATER  
DB DRY BULB  
DD DUCT MOUNTED SMOKE DETECTOR  
DDC DIRECT DIGITAL CONTROLS  
DI DUCTILE IRON  
DIA DIAMETER  
DN DOWN  
DP DIFFERENTIAL PRESSURE  
DTWR DUAL TEMPERATURE WATER RETURN  
DTPWS DUAL TEMPERATURE WATER SUPPLY  
DWS DRAWING  
DX DIRECT EXPANSION  
EA EACH  
EAT ENTERING AIR TEMPERATURE  
EFF EFFICIENCY  
EL ELEVATION  
ELEC ELECTRICAL  
EQUIP EQUIPMENT  
ESP EXTERNAL STATIC PRESSURE  
ESS EMERGENCY STOP SWITCH  
EWT ENTERING WATER TEMPERATURE  
EWH EXHAUST; EXHAUST AIR; EXHAUST FAN  
EXIST EXISTING  
EXP EXPANSION  
F FAHRENHEIT  
FCU FAN COIL UNIT  
FD FIRE DAMPER  
FFE FINISHED FLOOR ELEVATION  
FL FLOOR  
FLEX FLEXIBLE  
FOR FLAT ON BOTTOM  
FOT FLAT ON TOP  
FOR FUEL OIL RETURN  
FOS FUEL OIL SUPPLY  
FOV FUEL OIL VENT  
FPM FEET PER MINUTE  
FPS FEET PER SECOND  
FSD FIRE/SMOKE DAMPER  
FT FEET; FOOT  
G NATURAL GAS  
GA GAUGE  
GAL GALLON  
GC GENERAL CONTRACTOR  
GEX GREASE EXHAUST AIR  
GPH GALLON PER HOUR  
GPM GALLON PER MINUTE  
HD HUB DRAIN; HEAT DETECTOR  
HEX HAZARDOUS EXHAUST  
HOA HANDS-OFF-AUTOMATIC  
HORIZ HORIZONTAL  
HP HIGH PRESSURE  
HPR HIGH PRESSURE CONDENSATE RETURN  
HPS HIGH PRESSURE STEAM  
HSTAT HUMIDISTAT  
HT HEIGHT

**HVAC ABBREVIATIONS**

- HTG HEATING  
HVAC HEATING, VENTILATION AND AIR CONDITIONING  
HWR HEATING WATER RETURN  
HWS HEATING WATER SUPPLY  
HX HEAT EXCHANGER  
ID INCH  
IND INCH  
INV INVERT  
ISP INTERNAL STATIC PRESSURE  
KW KILOWATT  
KWH KILOWATT HOUR  
LAT LEAVING AIR TEMPERATURE  
LB/HR POUNDS PER HOUR  
LP LOW PRESSURE  
LPG LIQUID PETROLEUM GAS  
LPS LOW PRESSURE CONDENSATE RETURN  
LPS LOW PRESSURE CONDENSATE SUPPLY  
LWT LEAVING WATER TEMPERATURE  
MAX MAXIMUM  
MBH 1000 BRITISH THERMAL UNITS PER HOUR  
MFR MANUFACTURER  
MH MANHOLE  
MIN MINIMUM  
MP MEDIUM PRESSURE  
MRT MOTOR RATED TOGGLE SWITCH  
MS MOTOR STARTER  
MSD COMBINATION MOTOR STARTER AND DISCONNECT  
MTD MOUNTED  
MUA MAKE UP AIR  
MVD MANUAL VOLUME DAMPER  
N NITROGEN  
N.C. NORMALLY CLOSED  
NIC NOT IN CONTRACT  
NO NITROUS OXIDE; NUMBER  
N.O. NORMALLY OPEN  
NPS NET POSITIVE SUCTION HEAD  
NTS NOT TO SCALE  
O OXYGEN  
OA OUTSIDE AIR  
OBD OPPOSED BLADE DAMPER  
OC ON CENTER  
OD OUTSIDE DIAMETER  
P PUMP  
PC PLUMBING CONTRACTOR  
PCHWP PRIMARY CHILLED WATER PUMP  
PD PRESSURE DROP  
PHWP PRIMARY HOT WATER PUMP  
PI PRESSURE INDEPENDENT  
PICV PRESSURE INDEPENDENT CONTROL VALVE  
PR PUMPED CONDENSATE RETURN  
PRL PANEL  
PPH POUNDS PER HOUR  
PRV PRESSURE REDUCING VALVE  
PSI POUNDS PER SQUARE INCH  
PSIA POUNDS PER SQUARE INCH ABSOLUTE  
PSIG POUNDS PER SQUARE INCH GAUGE  
PT POINT  
PCV POLYVINYL CHLORIDE  
PQTY QUANTITY  
RA RETURN AIR  
RD ROUND  
RH RELATIVE HUMIDITY  
RL REFRIGERANT LIQUID  
RM ROOM  
RPM REVOLUTIONS PER MINUTE  
RRZ REDUCED PRESSURE ZONE  
RS REFRIGERANT SUCTION  
SA SUPPLY AIR  
SCFM STANDARD CUBIC FEET PER MINUTE  
SCWHP SECONDARY CHILLED WATER PUMP  
SD SMOKE DAMPER  
SECT SECTION  
SF SUPPLY FAN; SQUARE FEET  
SHWP SECONDARY HOT WATER PUMP  
SP STATIC PRESSURE  
SPEC SPECIFICATION  
SPL STATIC PRESSURE LOSS  
SS STAINLESS STEEL  
STM STEAM  
TA TRANSFER AIR  
TAB TEST AND BALANCE  
TOD TOP OF DUCT  
TOP TOP OF PIPE  
TOS TOP OF STEEL  
TSP TOTAL STATIC PRESSURE  
TSTAT THERMOSTAT  
TU TERMINAL UNIT  
TYP TYPICAL  
UH UNIT HEATER  
UL UNDERWRITERS LABORATORIES INC.  
V VENT  
VA VENTILATION AIR  
VAC VACUUM (SUCTION)  
VERT VERTICAL  
VFD VARIABLE FREQUENCY DRIVE  
W/ WITH  
WB WET BULB  
WG WATER GAUGE  
W/O WITHOUT  
XT EXPANSION TANK

**PIPING SYMBOLS**

- #" SYSTEM  
PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)  
VALVE (REFER TO SPECIFICATIONS)  
BALANCING VALVE (REFER TO SPECIFICATIONS)  
CALIBRATED BALANCING VALVE  
BUTTERFLY VALVE  
GATE VALVE  
GLOBE VALVE  
CHECK VALVE  
PLUG VALVE  
BALL VALVE  
2-WAY CONTROL VALVE  
3-WAY CONTROL VALVE  
PRESSURE REDUCING VALVE  
PRESSURE RELIEF VALVE  
GAS COCK  
Y-TYPE STRAINER  
BASKET STRAINER  
PIPE TURNING UP  
PIPE TURNING DOWN  
PIPE CONNECTION AT BOTTOM OF MAIN  
PIPE CAP  
PIPE UNION  
CONCENTRIC REDUCER  
ECCENTRIC REDUCER  
PIPE ALIGNMENT GUIDE  
PIPE ANCHOR  
FLEXIBLE PIPE CONNECTION  
PRESSURE GAUGE  
THERMOMETER  
STEAM TRAP  
DIRECTION OF FLOW IN PIPE  
SLOPE PIPE IN DIRECTION OF ARROW  
PUMP  
PETES PLUG (P & T PORT)  
BACKFLOW PREVENTER  
EXISTING PIPING  
NEW PIPING  
PIPING TO BE DEMOLISHED

**ELECTRICAL SYMBOLS**

- VFD VARIABLE FREQUENCY DRIVE  
MOTOR STARTER  
COMBINATION MOTOR STARTER/DISCONNECT  
FUSED DISCONNECT  
NON-FUSED DISCONNECT  
DISCONNECT, EXISTING OR BY OTHERS  
POWER PANEL, EXISTING OR BY OTHERS  
TOGGLE SWITCH  
MOTOR RATED TOGGLE SWITCH

**GENERAL SYMBOLS**

- PLAN OR DETAIL NUMBER SHEET NUMBER  
ELEVATION LETTER SHOWN ON SHEET NUMBER  
SECTION NUMBER SHOWN ON SHEET NUMBER  
DIMENSION LINE  
DETAIL NUMBER WITH SHEET NO.  
COLUMN NUMBER OR LETTER  
DRAWING REVISION NUMBER  
KEYED NOTE NUMBER  
CONNECT TO EXISTING  
REMOVE TO THIS POINT  
NORTH ARROW

**DUCTWORK SYMBOLS**

- SUPPLY, VENTILATION, OUTSIDE AIR DUCT SECTION  
RETURN AIR DUCT SECTION  
EXHAUST OR RELIEF AIR DUCT SECTION  
RECTANGULAR DUCT DIMENSIONS (IN PLAN WIDTH x HEIGHT INCHES)  
FLAT OVAL DUCT DIMENSIONS  
ROUND DUCT DIMENSIONS  
EXISTING DUCT  
DUCT TO BE DEMOLISHED  
NEW DUCT  
SLOPE DUCT IN DIRECTION OF ARROW  
BELL MOUTH TAP FOR MEDIUM PRESSURE  
CONICAL TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR FOR LOW PRESSURE TAKEOFFS  
45° TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR  
SUPPLY DIFFUSER  
RETURN GRILLE  
EXHAUST GRILLE  
MITERED ELBOW  
RADIUS ELBOW  
FLEXIBLE DUCT  
VOLUME DAMPER WITH MANUAL OPERATOR AND LOCKING QUADRANT  
DUCT MOUNTED MOTORIZED DAMPER  
DUCT MOUNTED STEAM HUMIDIFIER  
DUCT MOUNTED SMOKE DETECTOR  
FIRE DAMPER, DAMPER TO MATCH RATING  
SMOKE DAMPER, DAMPER TO MATCH RATING  
COMBINATION FIRE/SMOKE DAMPER, DAMPER TO MATCH RATING  
CEILING RADIATION DAMPER, DAMPER TO MATCH RATING  
AIR DISTRIBUTION SYMBOL, LETTER(S) DENOTES TYPE, NUMBER INDICATES CFM  
THERMOSTAT OR ROOM SENSOR  
HUMIDISTAT OR ROOM SENSOR  
DIRECT DIGITAL CONTROLS CABINET  
EXISTING THERMOSTAT OR ROOM SENSOR

**HVAC GENERAL NOTES**

- 1 COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY DUCTWORK OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.  
2 REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.  
3 ALL DUCT LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE DUCT LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL DUCT OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL DUCTWORK HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING, BUT LOW ENOUGH TO ALLOW FOR EASY ACCESS TO SYSTEM BALANCING DEVICES. DO NOT BLOCK ACCESS TO DEVICES.  
4 REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL DETAILS FOR EXACT LOCATION OF ALL CEILING AND SIDEWALL AIR DISTRIBUTION AND DEVICES.  
5 ROUND DUCT RUN-OFFS TO DIFFUSERS SHALL BE SAME SIZE AS INLET DIAMETER SCHEDULED, UNLESS NOTED OTHERWISE.  
6 ALL DUCT DIMENSIONS ARE INSIDE CLEAR. SEE DETAILS AND SPECIFICATIONS FOR INSULATION REQUIREMENTS.  
7 PROVIDE BALANCING DAMPERS WHERE INDICATED ON THE PLANS AND WHERE REQUIRED FOR SYSTEM BALANCING.  
8 INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS.  
9 NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.  
10 COORDINATE EXACT SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH ALL TRADES. COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED MECHANICAL ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: SENSORS, WALL DEVICES, CEILING GRILLES, CONTROL PANELS, AND ALARMS.  
11 FURNISH 24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) AT ALL MAINTENANCE ITEMS THAT ARE CONCEALED, SUCH AS EQUIPMENT, VALVES, DAMPERS, SENSORS, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.  
12 PROVIDE DUCT TRANSITIONS AS NECESSARY WHERE CONNECTING NEW AIR DEVICE TO EXISTING DUCT.

**HVAC DEMOLITION NOTES**

- 1 SEE REQUIREMENTS OF SECTION 019916 OF THE SPECIFICATION.  
2 THIS DEMOLITION PLAN MAY OR MAY NOT REFLECT ALL EXISTING HVAC COMPONENTS AND SYSTEMS. THIS DRAWING IS BASED ON AVAILABLE DRAWINGS AND/OR VISUAL OBSERVATIONS AND IS INTENDED TO INDICATE THE MAGNITUDE OF DEMOLITION WORK REQUIRED BUT NOT TO EXCLUDE WORK NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID.  
3 THE SCOPE OF THE DEMOLITION WORK REQUIRED INCLUDES REMOVAL OF ITEMS THAT MUST BE REINSTALLED OR REPLACED IN ORDER TO REMOVE ANOTHER ITEM OR INSTALL NEW WORK.  
4 ALL EXISTING EQUIPMENT REMOVED SHALL BE DISPOSED OF BY THIS CONTRACTOR (UNLESS NOTED OTHERWISE).  
5 CONTRACTOR TO PATCH BUILDING CONSTRUCTION (WALLS, FLOORS, CEILING, ROOF, ETC.) DISTURBED BY HVAC DEMOLITION TO MATCH EXISTING. HVAC CONTRACTOR TO MINIMIZE DISTURBANCE OF REMAINING CONSTRUCTION.

**APPENDIX B**

**2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

MECHANICAL DESIGN

- MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT  
Thermal Zone: 2013 ASHRAE FUNDAMENTALS, City, Climate Zone  
winter dry bulb: N/A  
summer dry bulb: N/A

- Interior design conditions  
winter dry bulb: N/A  
summer dry bulb: N/A  
relative humidity: N/A

- Building heating load: N/A  
Building cooling load: N/A

Mechanical Spacing Conditioning System

- Unitary  
description of unit: N/A  
heating efficiency: N/A  
cooling efficiency: N/A  
size category of unit: N/A  
Boiler  
Size category, if oversized, state reason: N/A  
Chiller  
Size category, if oversized, state reason: N/A  
List equipment efficiencies: N/A

HVAC DRAWING LIST	
NO.	TITLE
H001	STANDARDS, SYMBOLS, DETAILS & SCHEDULES
H100	FIRST FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS
H101	FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS
H102	FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS
H103	FIRST FLOOR BUILDING D FLOOR PLANS AND ENLARGED PLANS
H200	SECOND FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS
H201	SECOND FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS
H202	SECOND FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS
H203	ROOF PLAN

MECHANICAL SUMMARY  
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

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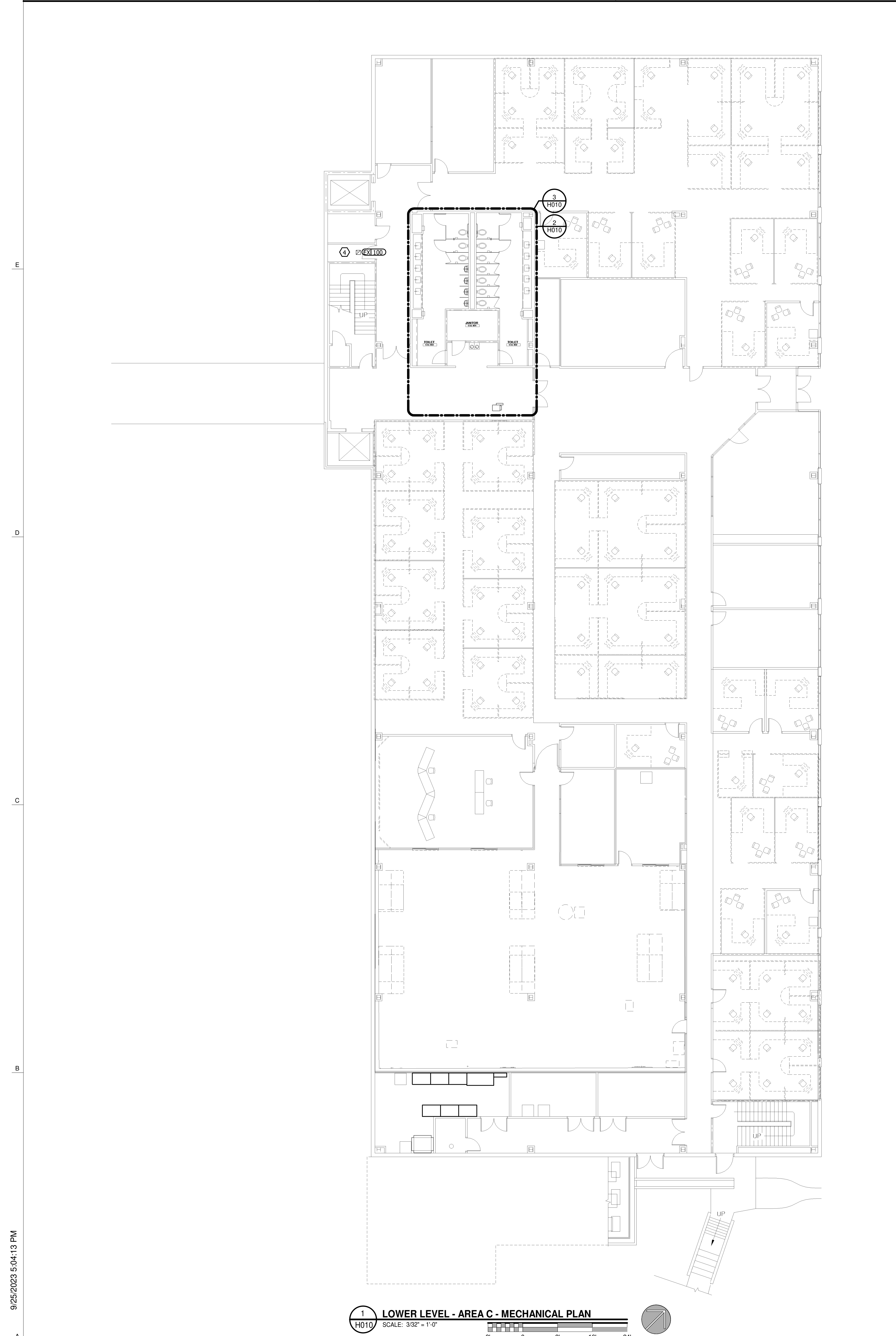
STANDARDS, SYMBOLS, DETAILS & SCHEDULES  
JOB CODE: 2023-02594  
DRAWING NUMBER

H001

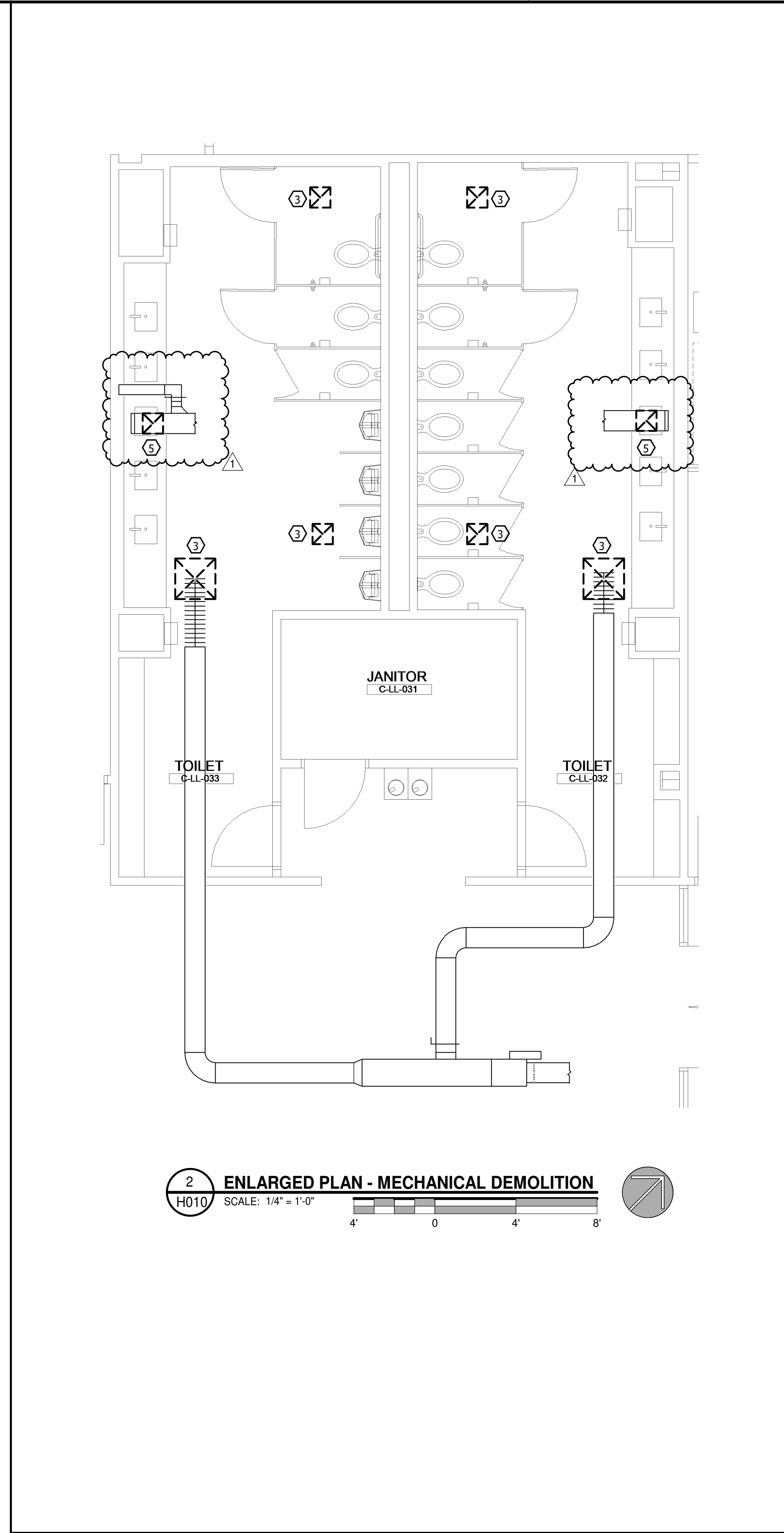
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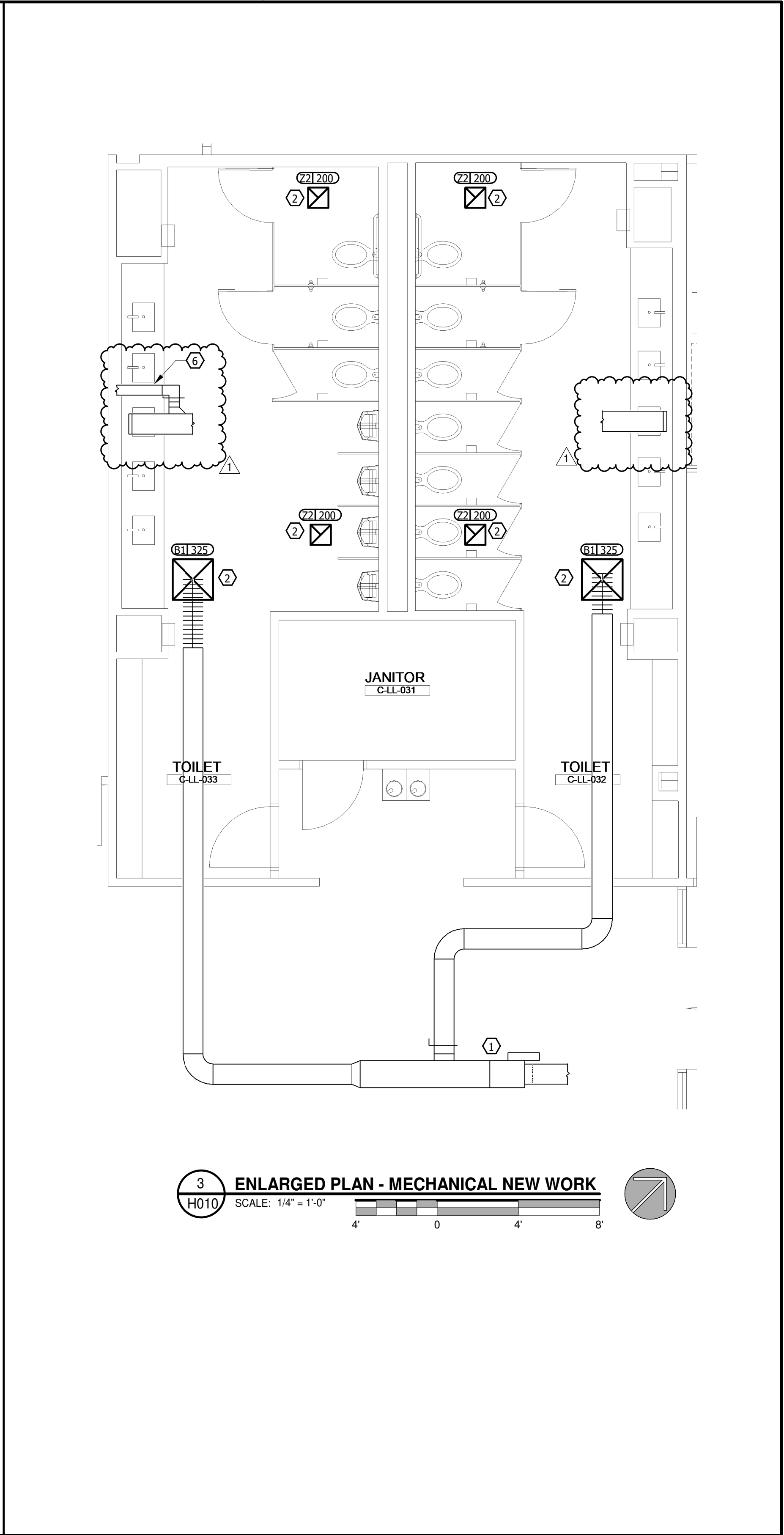
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**1 LOWER LEVEL - AREA C - MECHANICAL PLAN**  
 H010 SCALE: 3/32" = 1'-0"  
 8' 0' 16' 24'



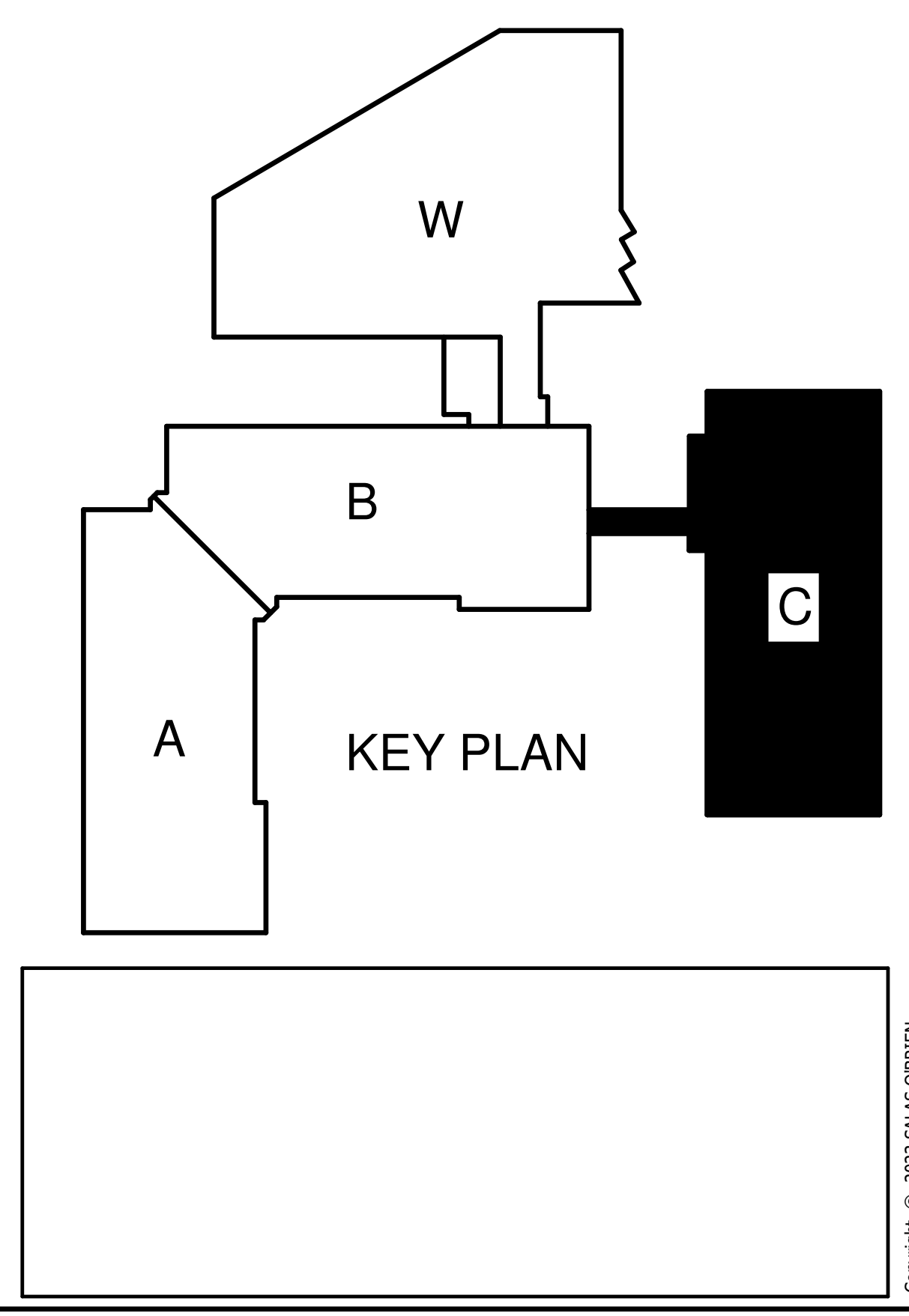
**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H010 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'



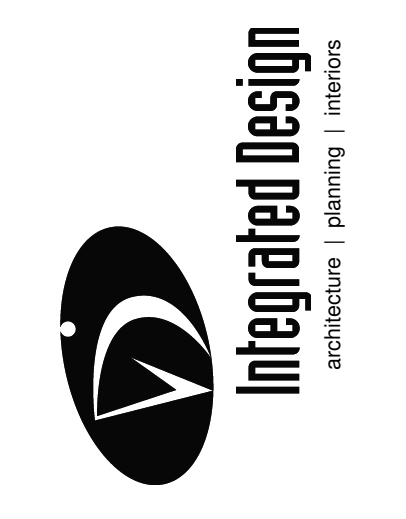
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H010 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'

**KEY NOTES TO H010**

- 1 RE-BALANCE EXISTING VAV TO 650 CFM.
- 2 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 3 REMOVE AIR DEVICE. DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- 4 RE-BALANCE EXISTING GRILL TO CFM INDICATED
- 5 REMOVE EXISTING AIR DEVICE AND BRANCH BACK TO MAIN AND CAP.
- 6 RE-BALANCE RUNOUT TO STORAGE ROOM TO 100 CFM.



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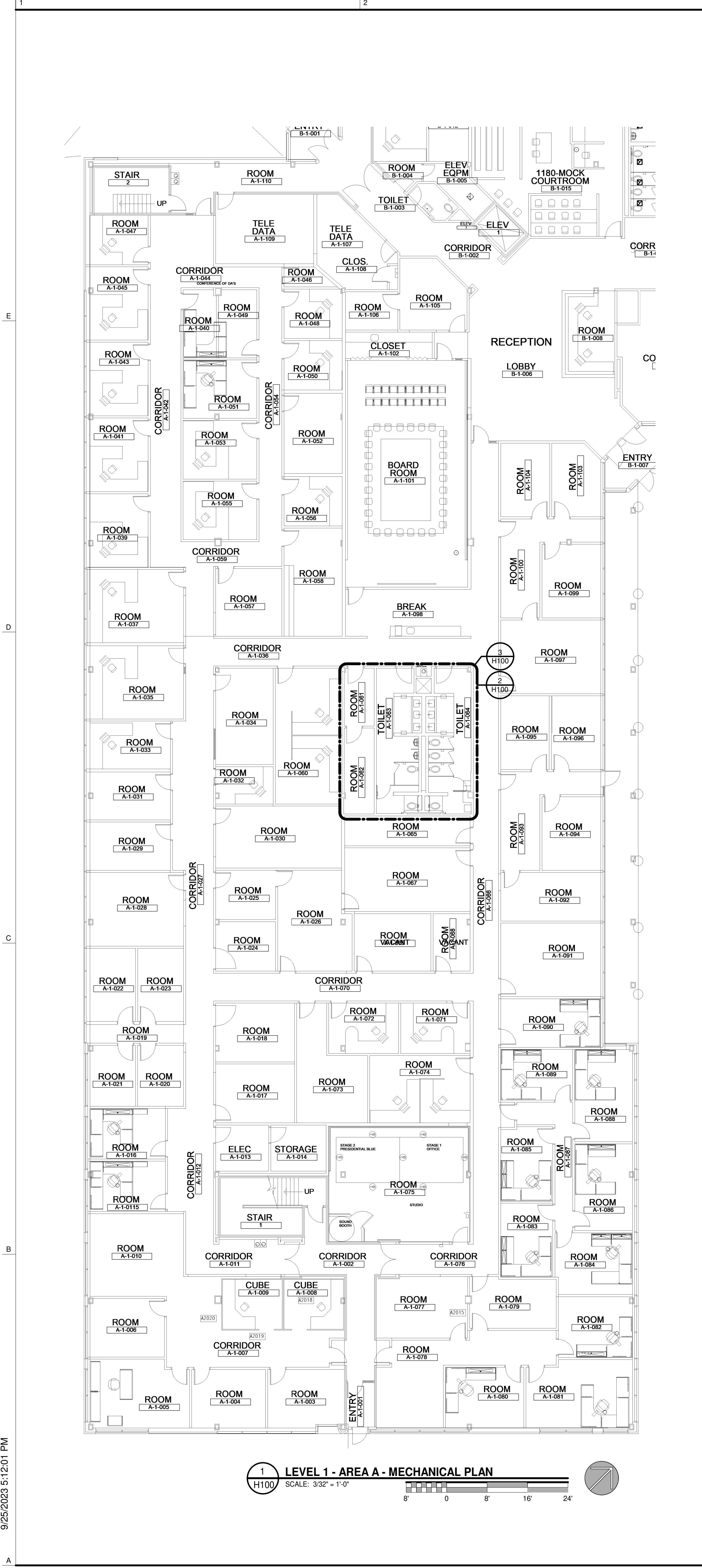
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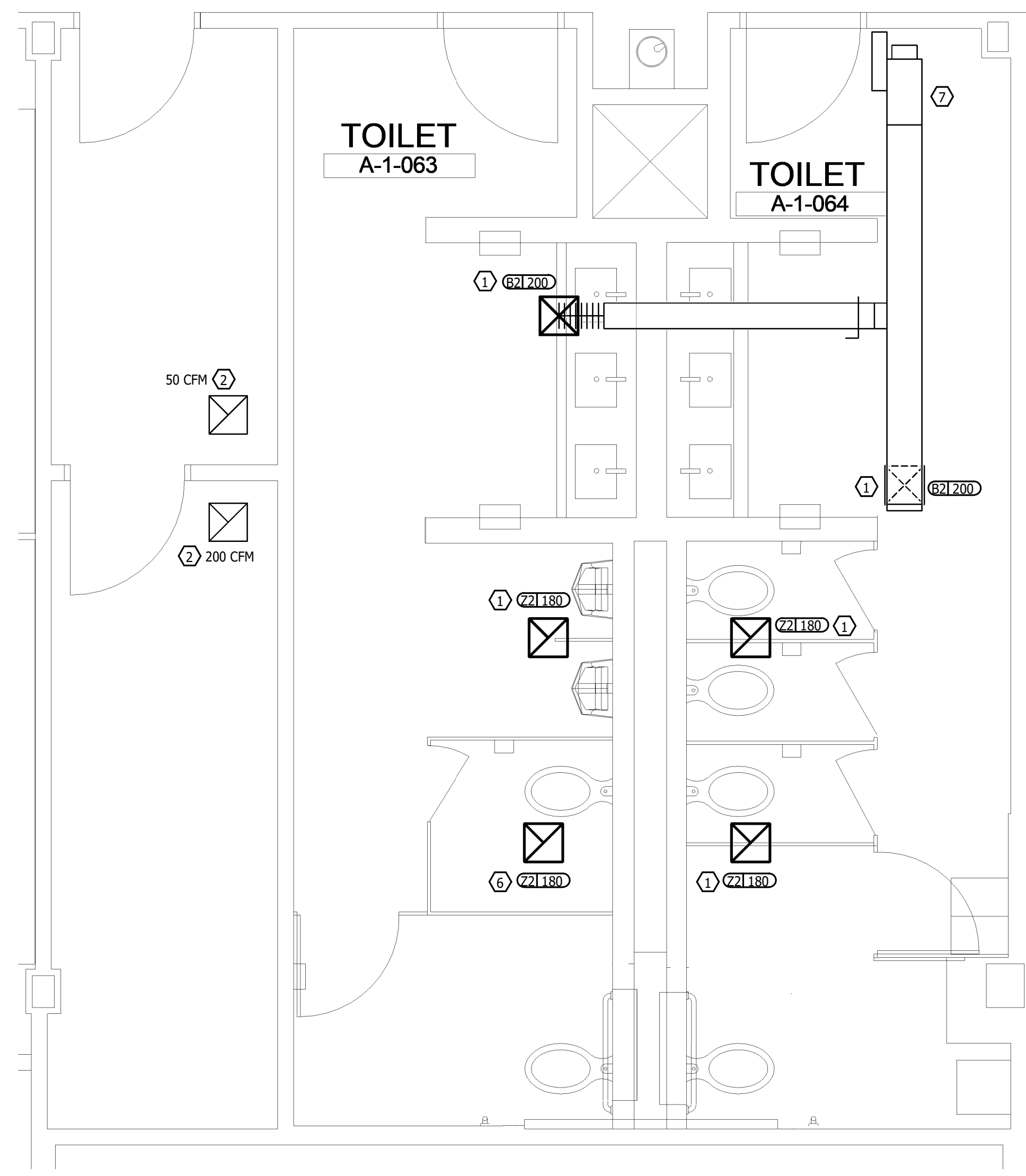
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 LOWER LEVEL  
 BUILDING C  
 FLOOR PLANS  
 AND ENLARGED  
 PLANS

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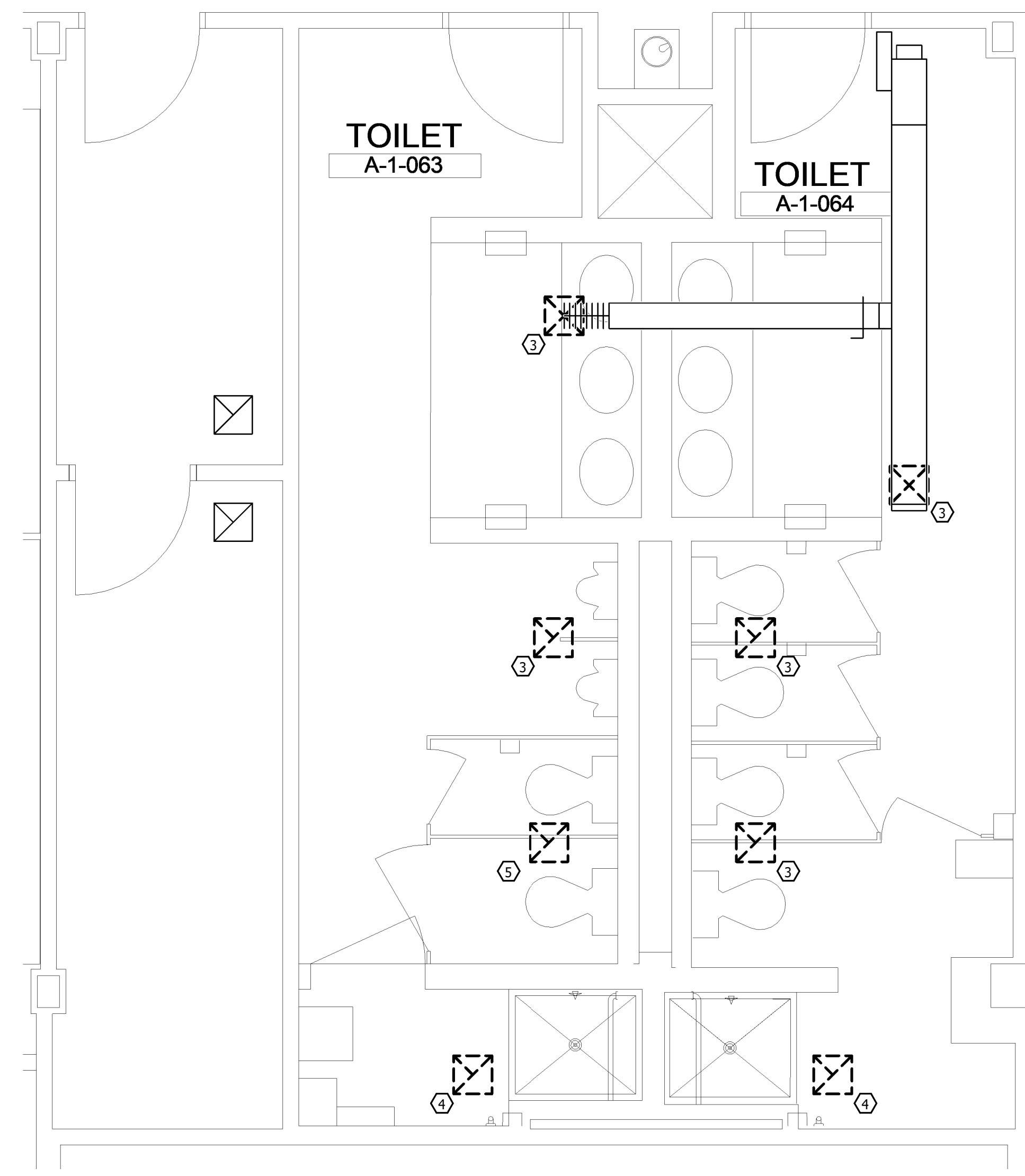
**H010**



**1 LEVEL 1 - AREA A - MECHANICAL PLAN**  
 H100 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 0' 16' 0' 24' 0'



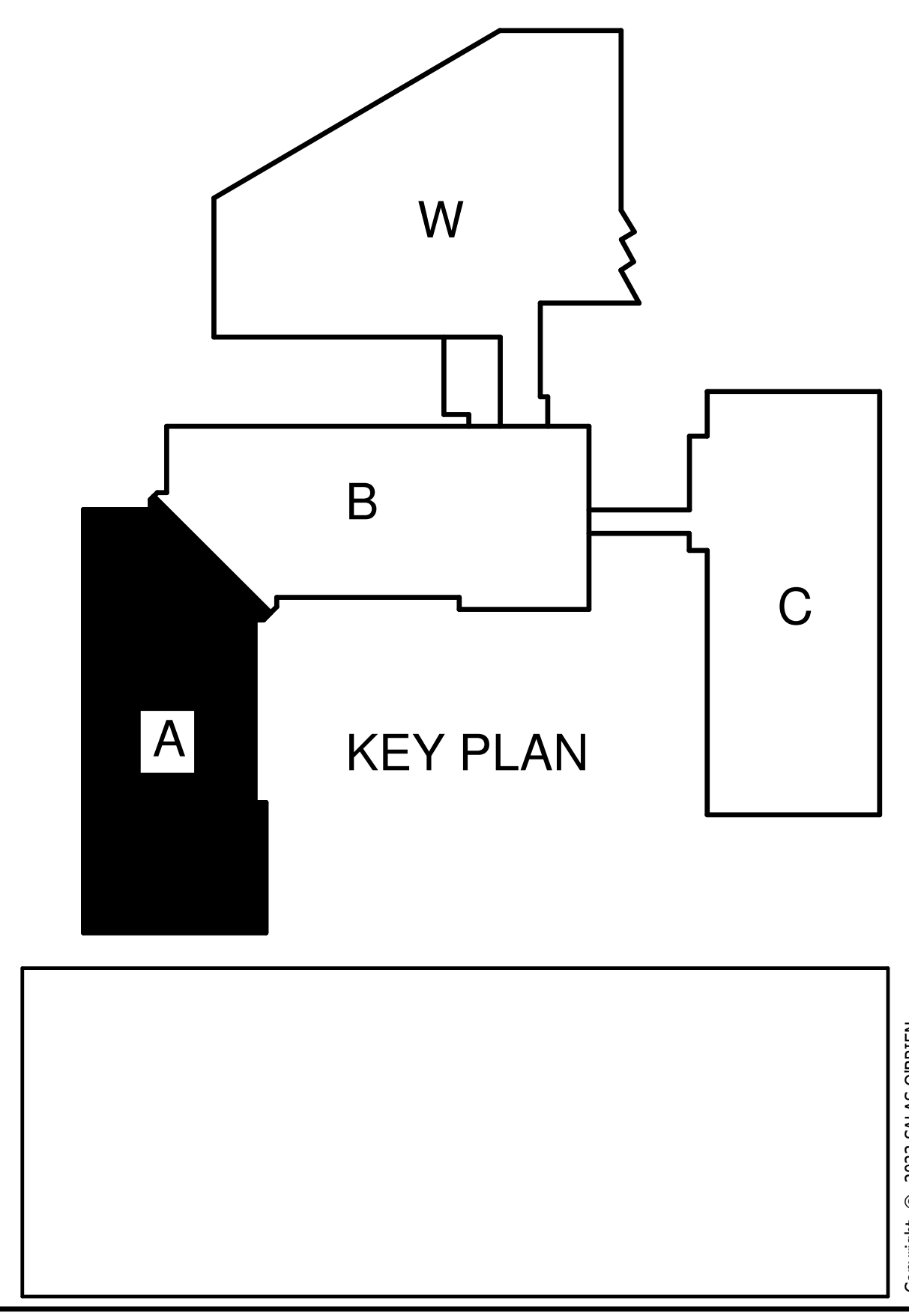
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H100 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 0' 4' 0' 6' 0'



**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H100 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 0' 4' 0' 6' 0'

**KEY NOTES TO H100**

- 1 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 2 RE-BALANCE EXISTING AIR DEVICE TO INDICATED CFM.
- 3 CAREFULLY REMOVE AIR DEVICE FOR RE-CONNECTION IN NEW WORK.
- 4 REMOVE EXISTING AIR DEVICE AND BRANCH BACK TO MAIN AND CAP.
- 5 CAREFULLY REMOVE AIR DEVICE FOR RE-CONNECTION IN NEW WORK. EXISTING AIR DEVICE IS LAYING ABOVE CEILING. VERIFY INTEGRITY OF BRANCH DUCTWORK PRIOR TO RE-USING.
- 6 INSTALL NEW AIR DEVICE IN APPROXIMATELY LOCATION SHOWN. PROVIDE NEW BRANCH DUCTWORK IF REQUIRED.
- 7 RE-BALANCE EXISTING TERMINAL UNIT TO 400 CFM.



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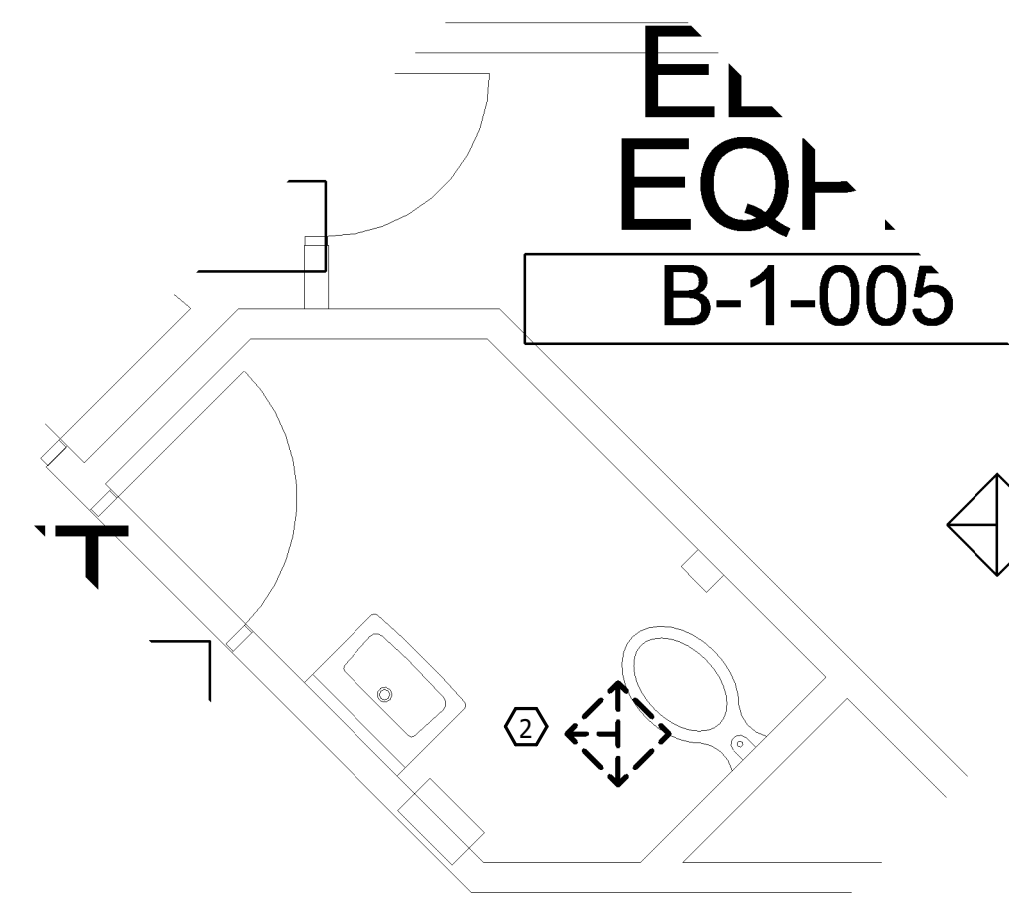
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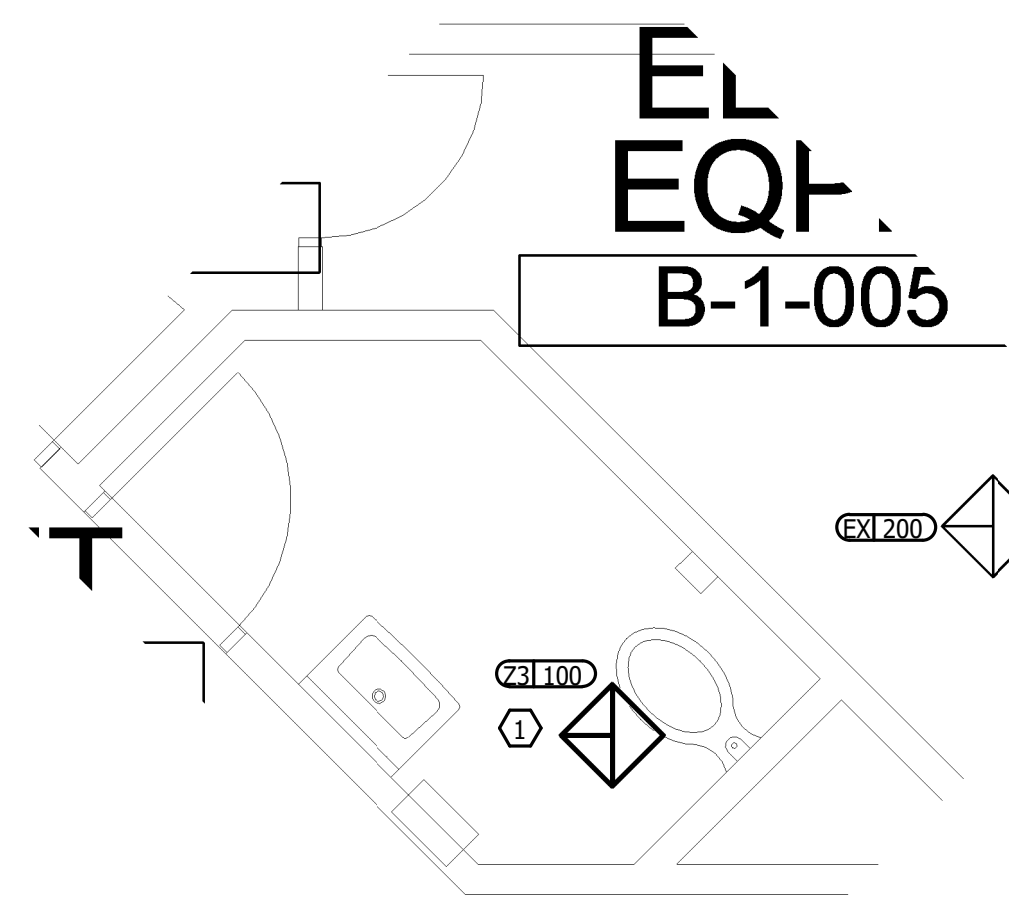
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**FIRST FLOOR  
 BUILDING A  
 FLOOR PLANS  
 AND ENLARGED  
 PLANS**  
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**H100**  
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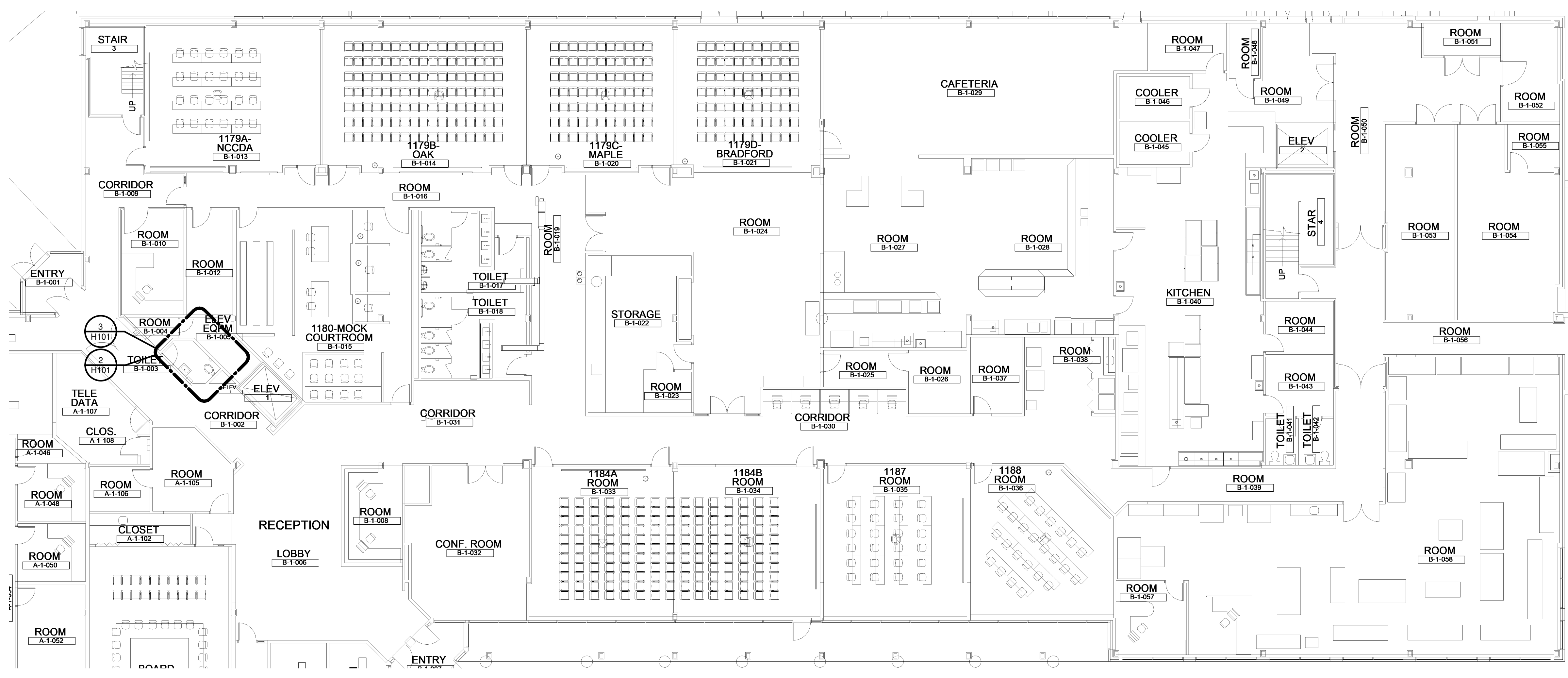
**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H101 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 4' 6'



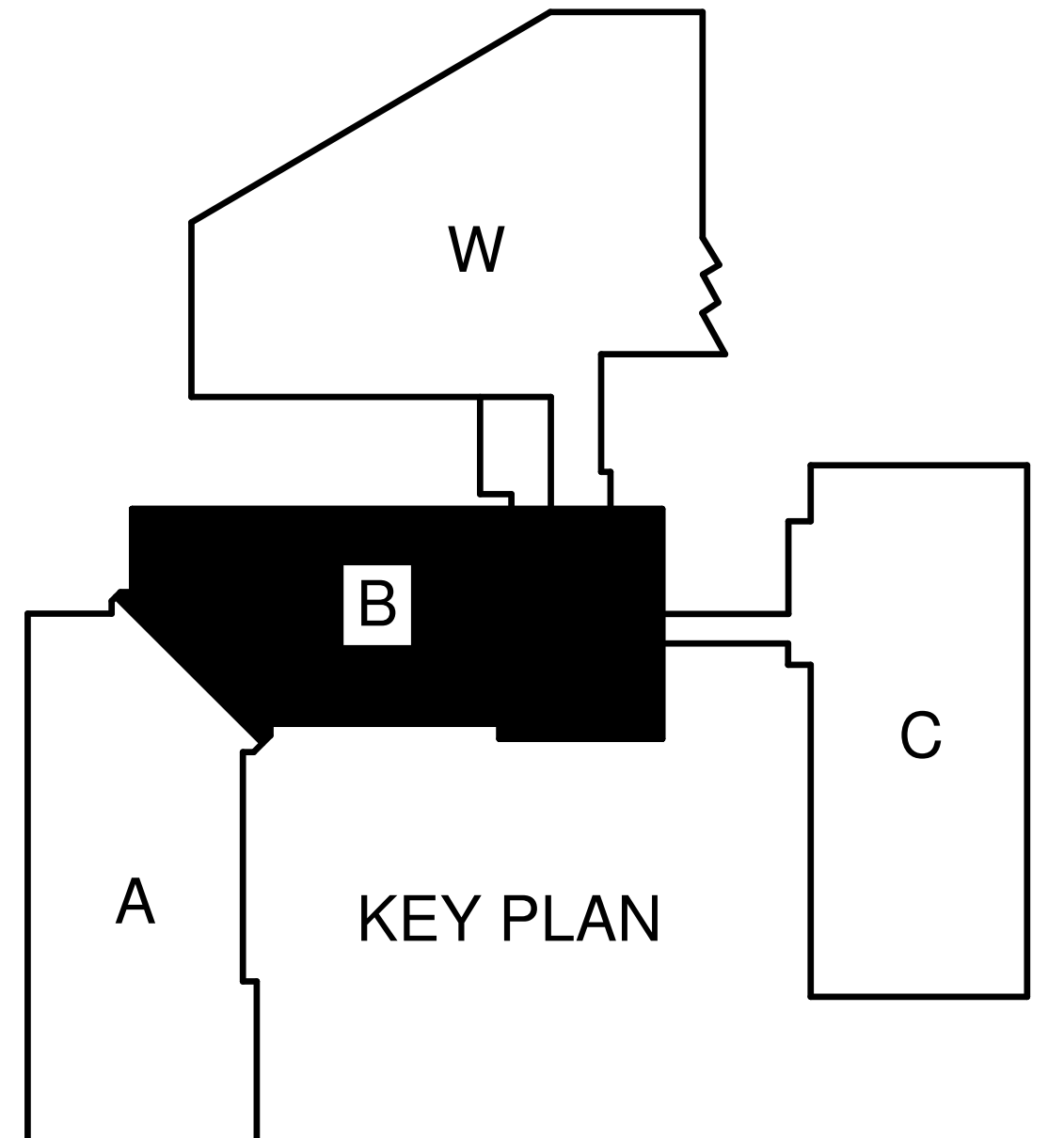
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H101 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 4' 6'

**KEY NOTES TO H101**

- 1 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 2 REMOVE AIR DEVICE. DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- 3 RE-BALANCE EXISTING GRILL TO CFM INDICATED



**1 LEVEL 1 - AREA B - MECHANICAL PLAN**  
 H101 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 16' 24'



**KEY PLAN**

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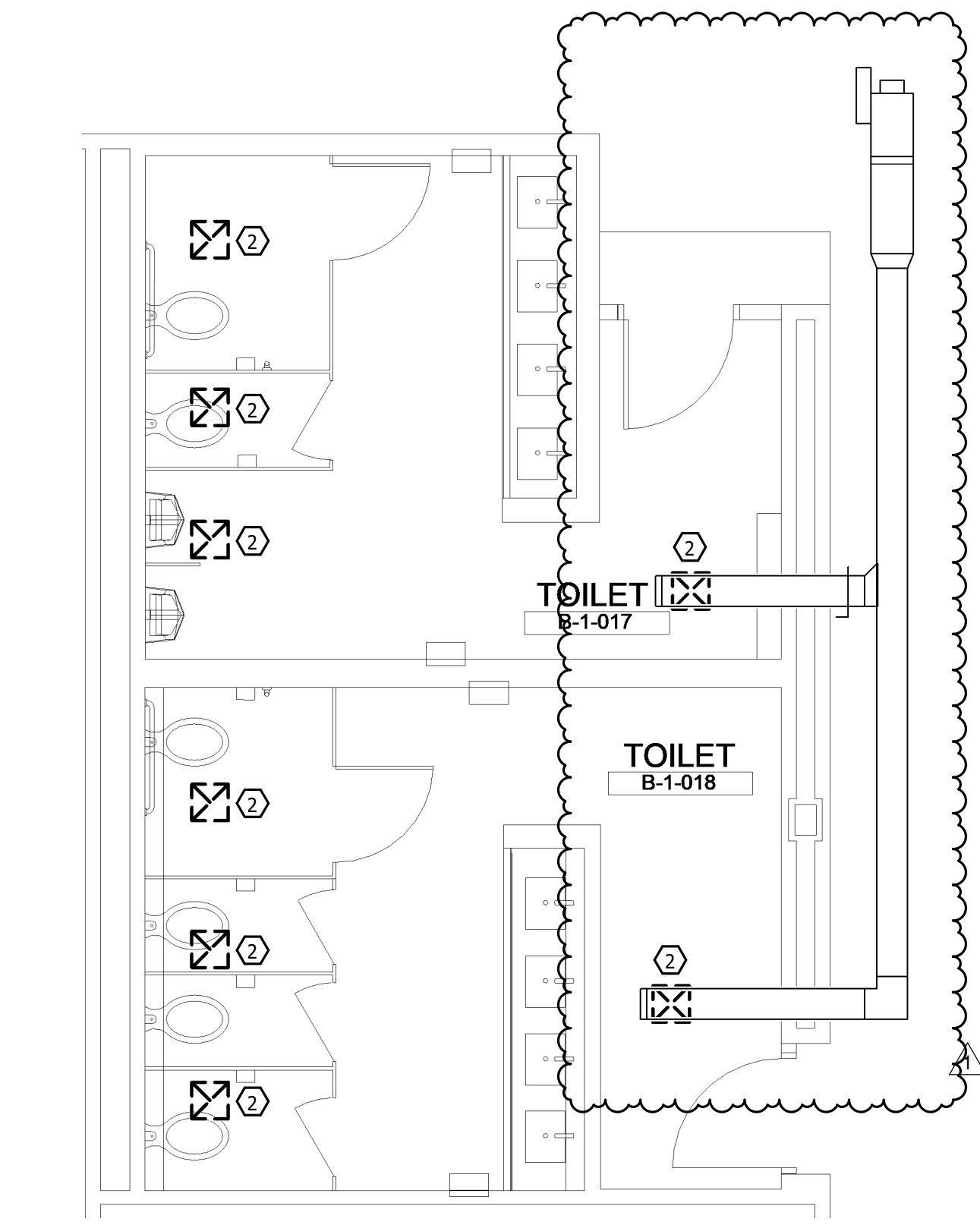
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**FIRST FLOOR  
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 AND ENLARGED  
 PLANS**

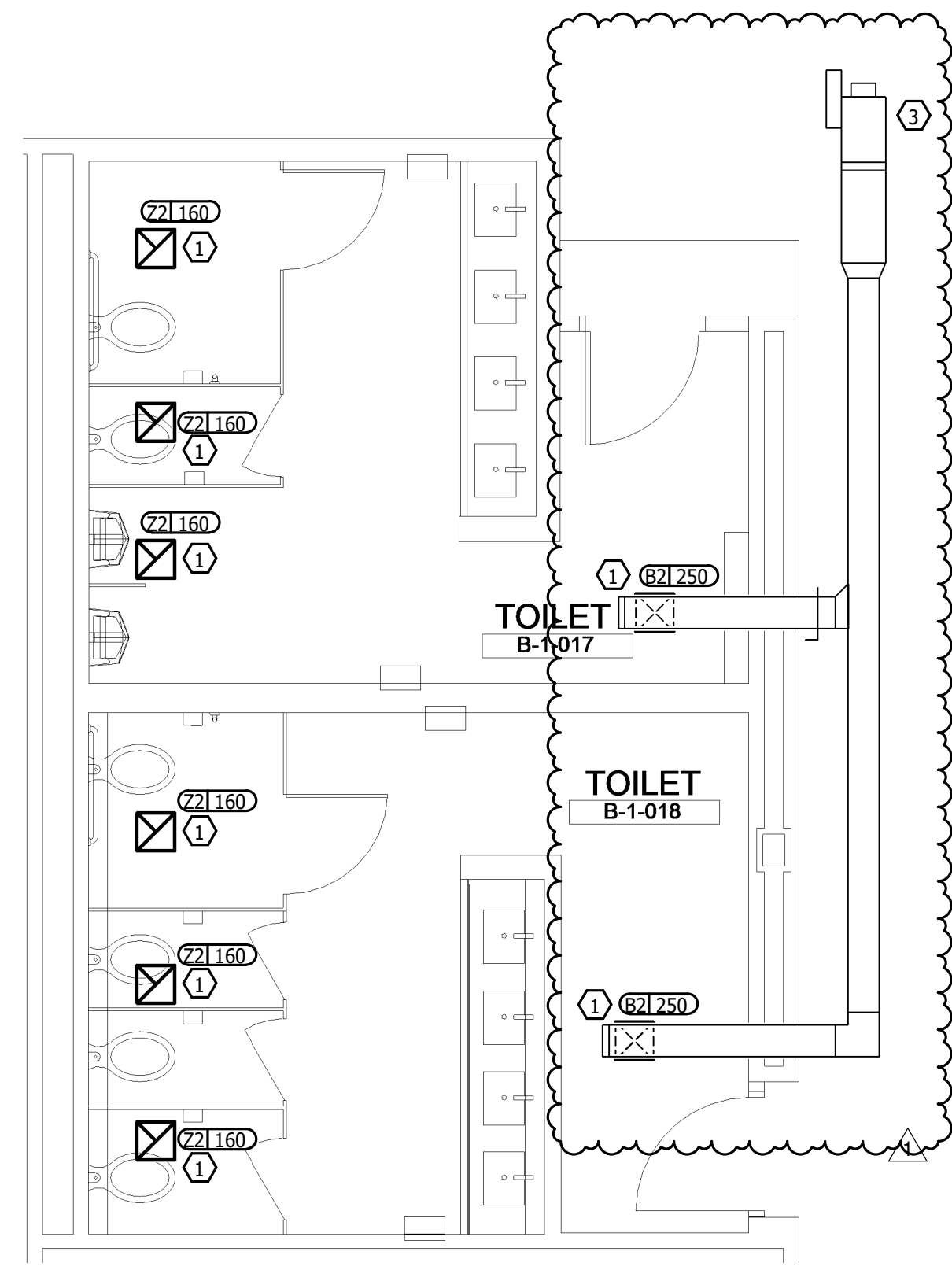
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**H101**

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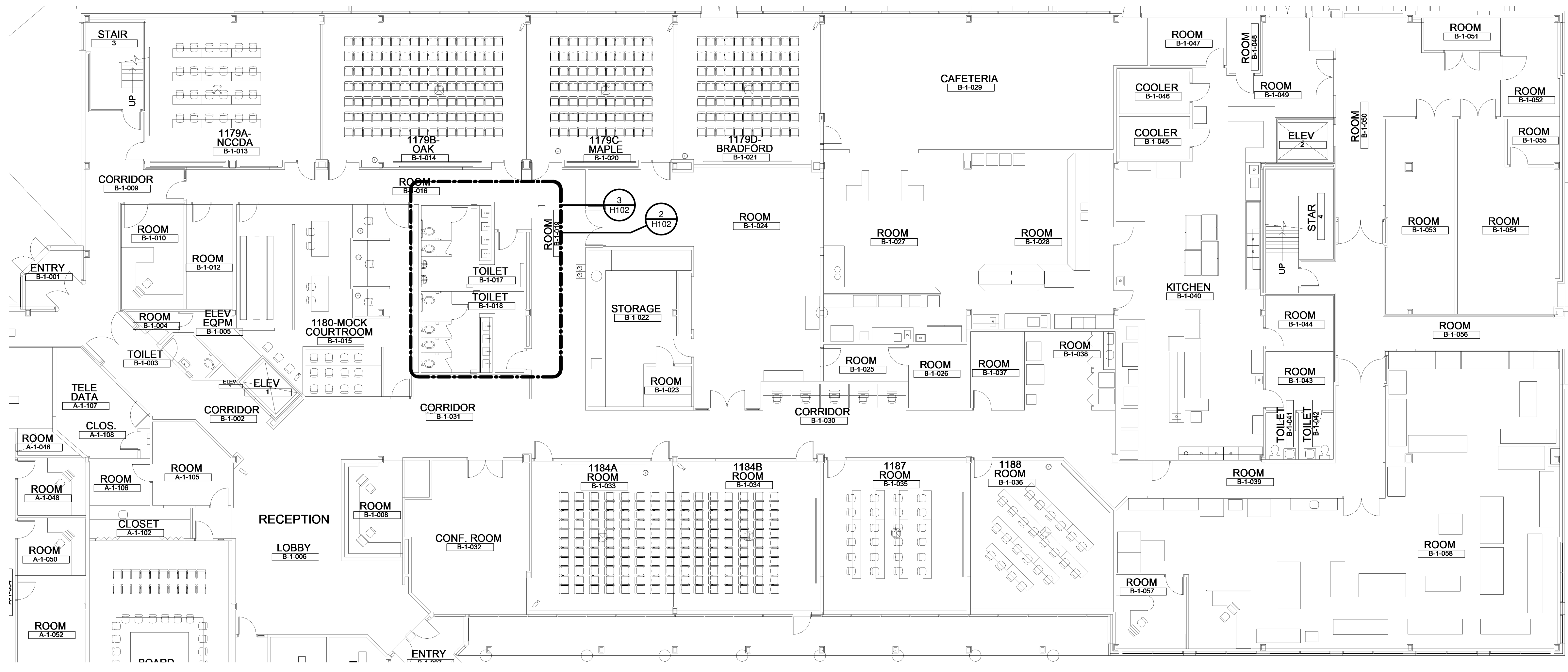
**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H102 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'



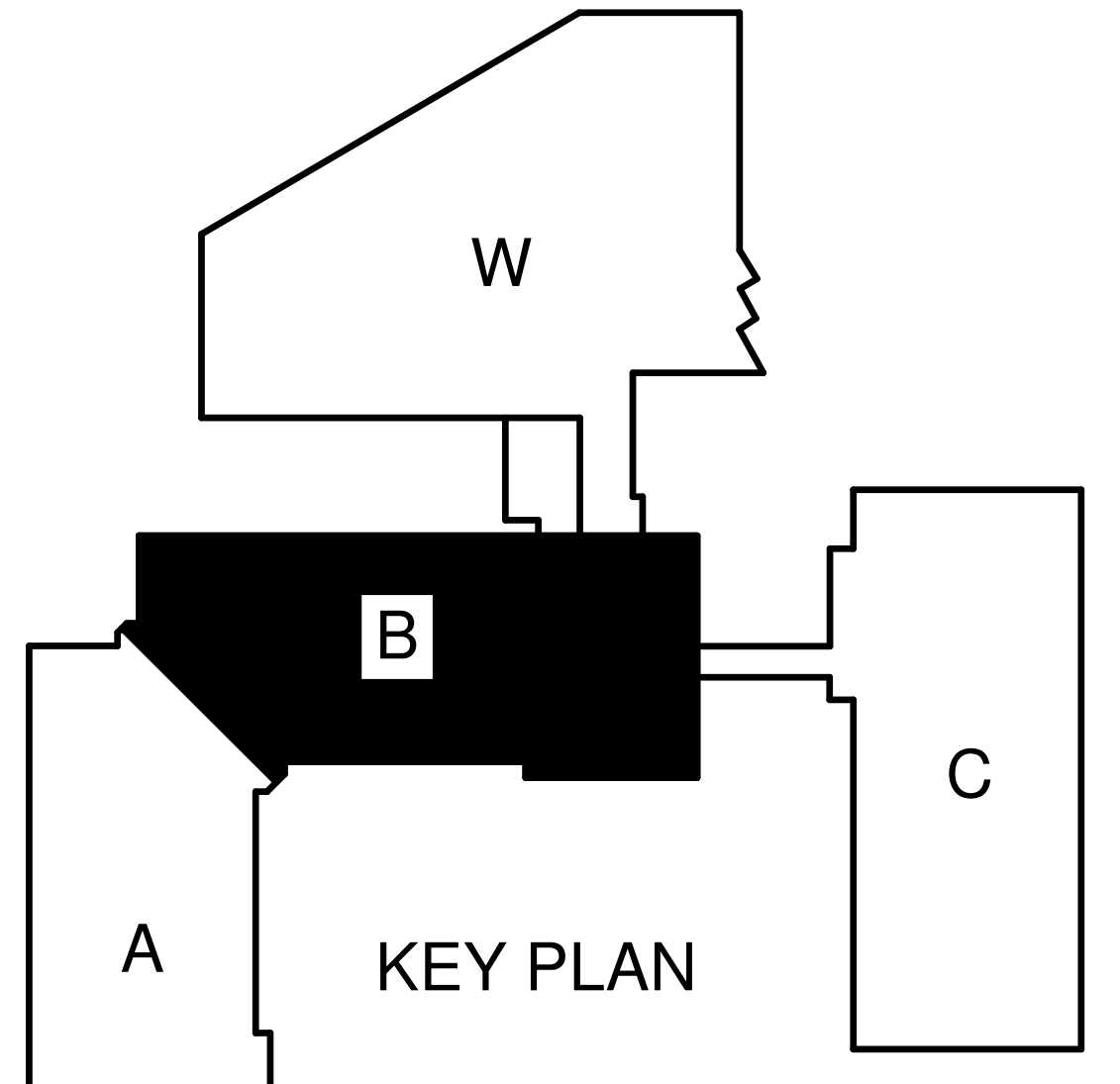
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H102 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'

**KEY NOTES TO H102**

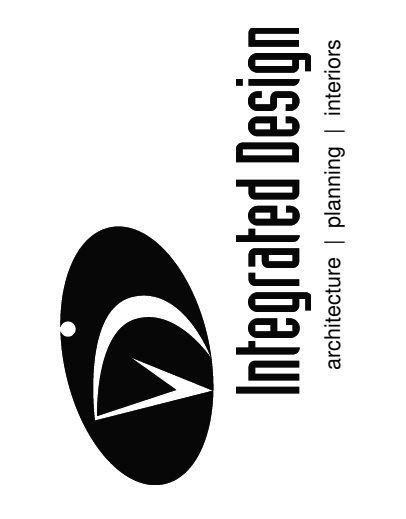
- RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- REMOVE AIR DEVICE DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- RE-BALANCE TERMINAL BOX TO 500 CFM.



**1 LEVEL 1 - AREA B - MECHANICAL PLAN 2**  
 H102 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 16' 24'



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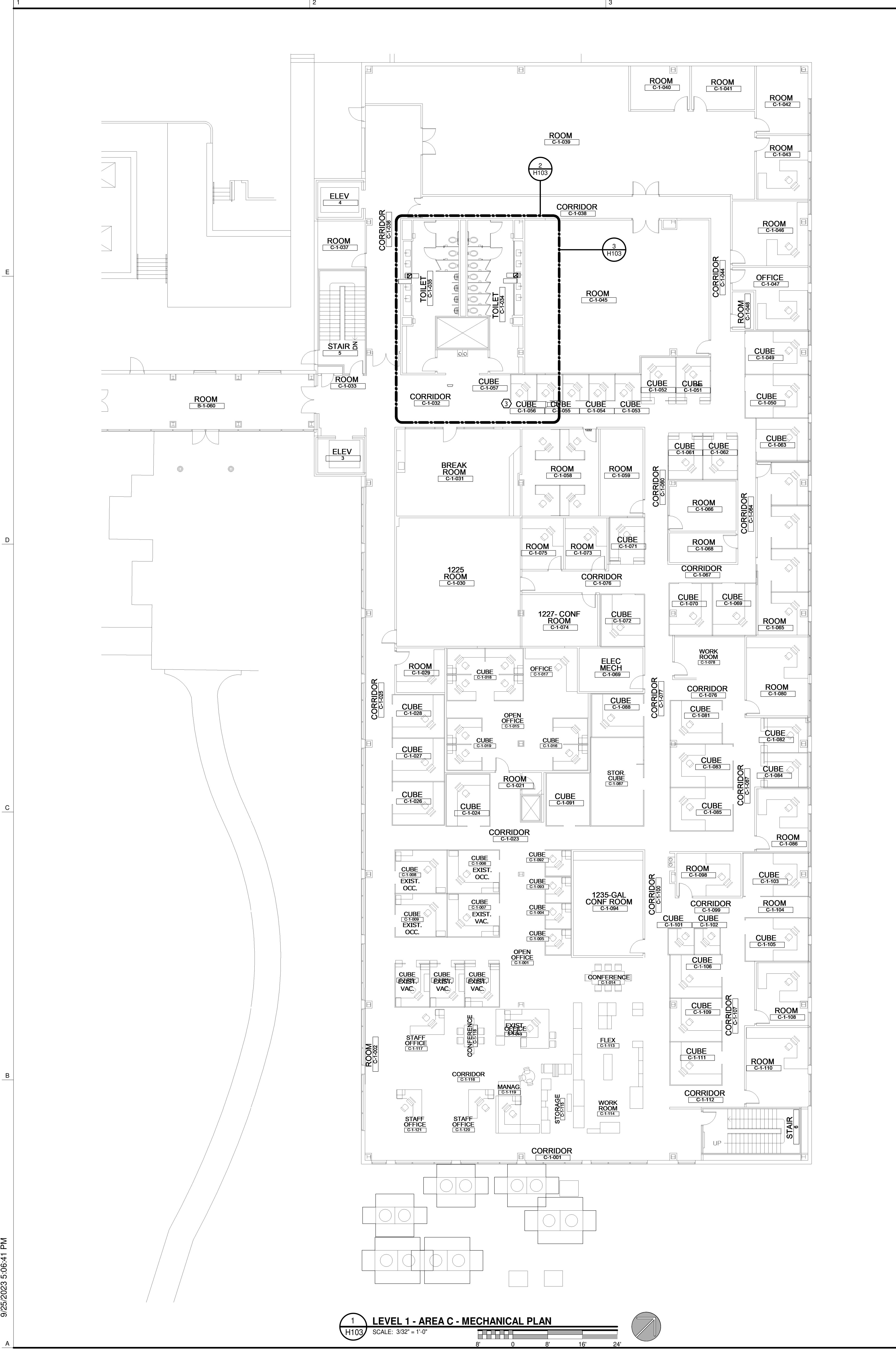
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**FIRST FLOOR**  
**BUILDING B**  
**FLOOR PLANS**  
**AND ENLARGED**  
**PLANS**

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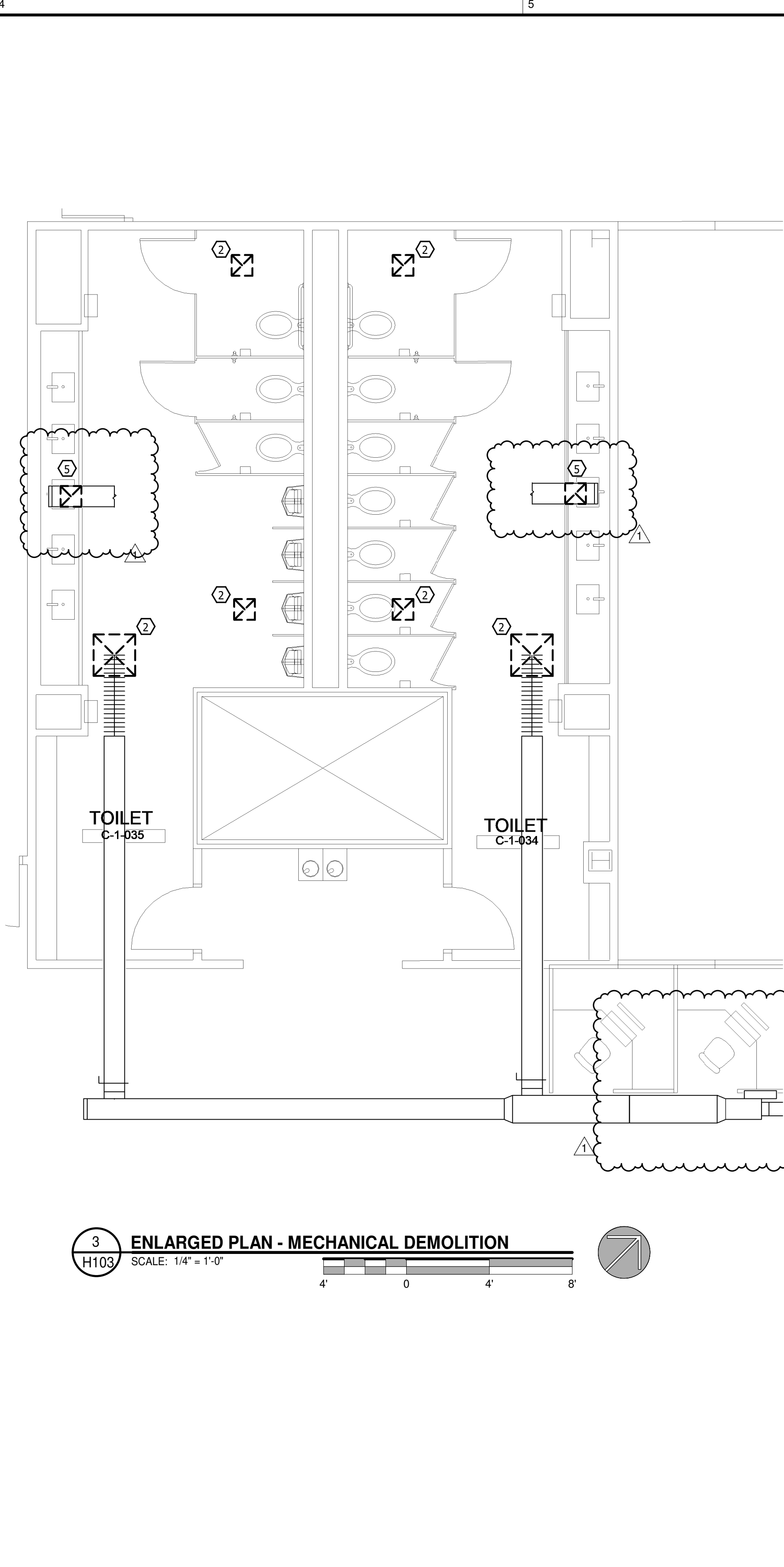
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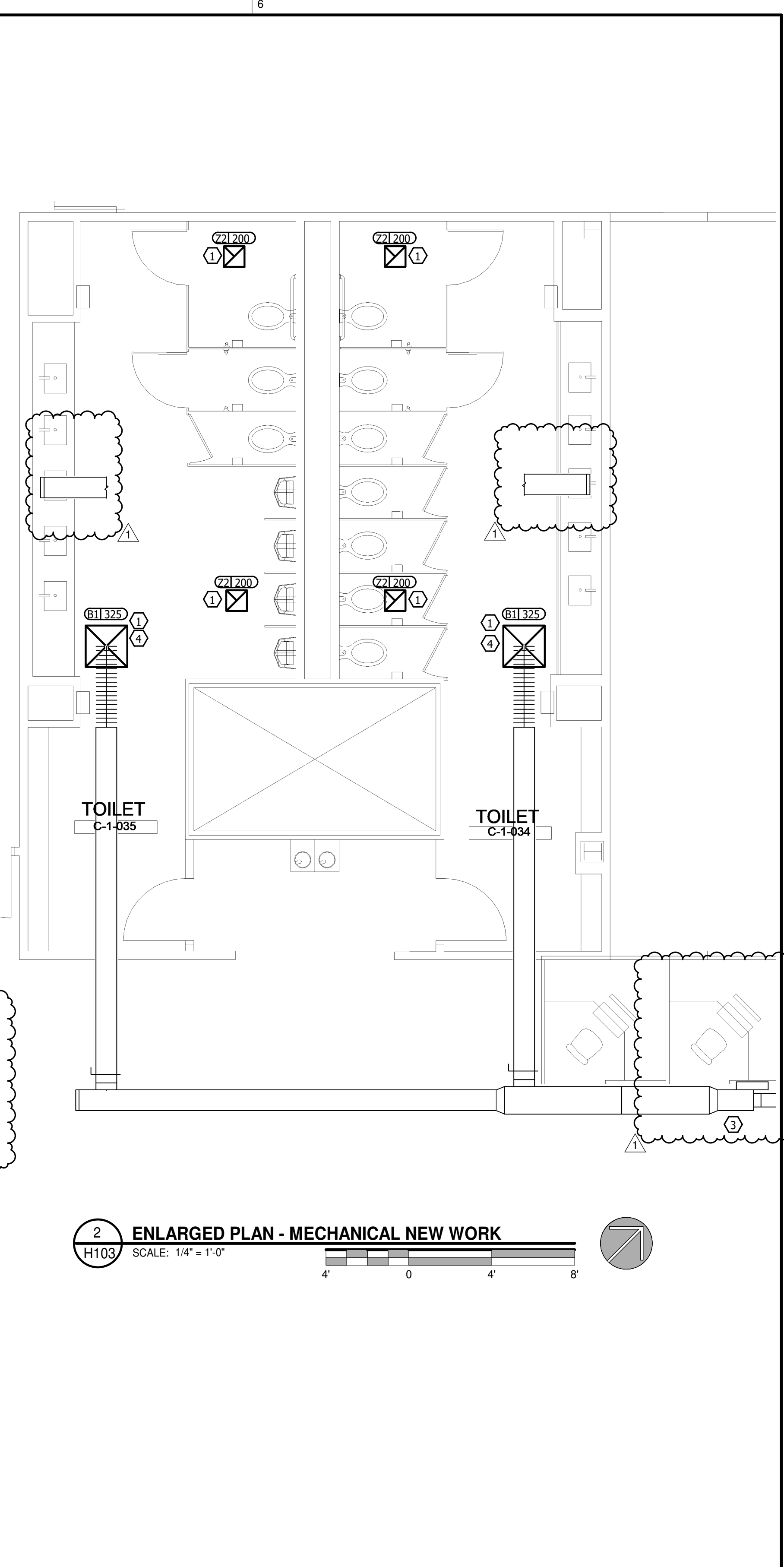




**1 LEVEL 1 - AREA C - MECHANICAL PLAN**  
 H103 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 16' 24'



**3 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H103 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'



**2 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H103 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'

**KEY NOTES TO H103**

- RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- REMOVE AIR DEVICE. DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- RE-BALANCE EXISTING VAV TO 650 CFM.
- BALANCE SUPPLY GRILL TO 325 CFM.
- REMOVE EXISTING AIR DEVICE AND BRANCH BACK TO MAIN AND CAP.

**KEY PLAN**

W  
B  
A  
C

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**FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS**

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**H103**

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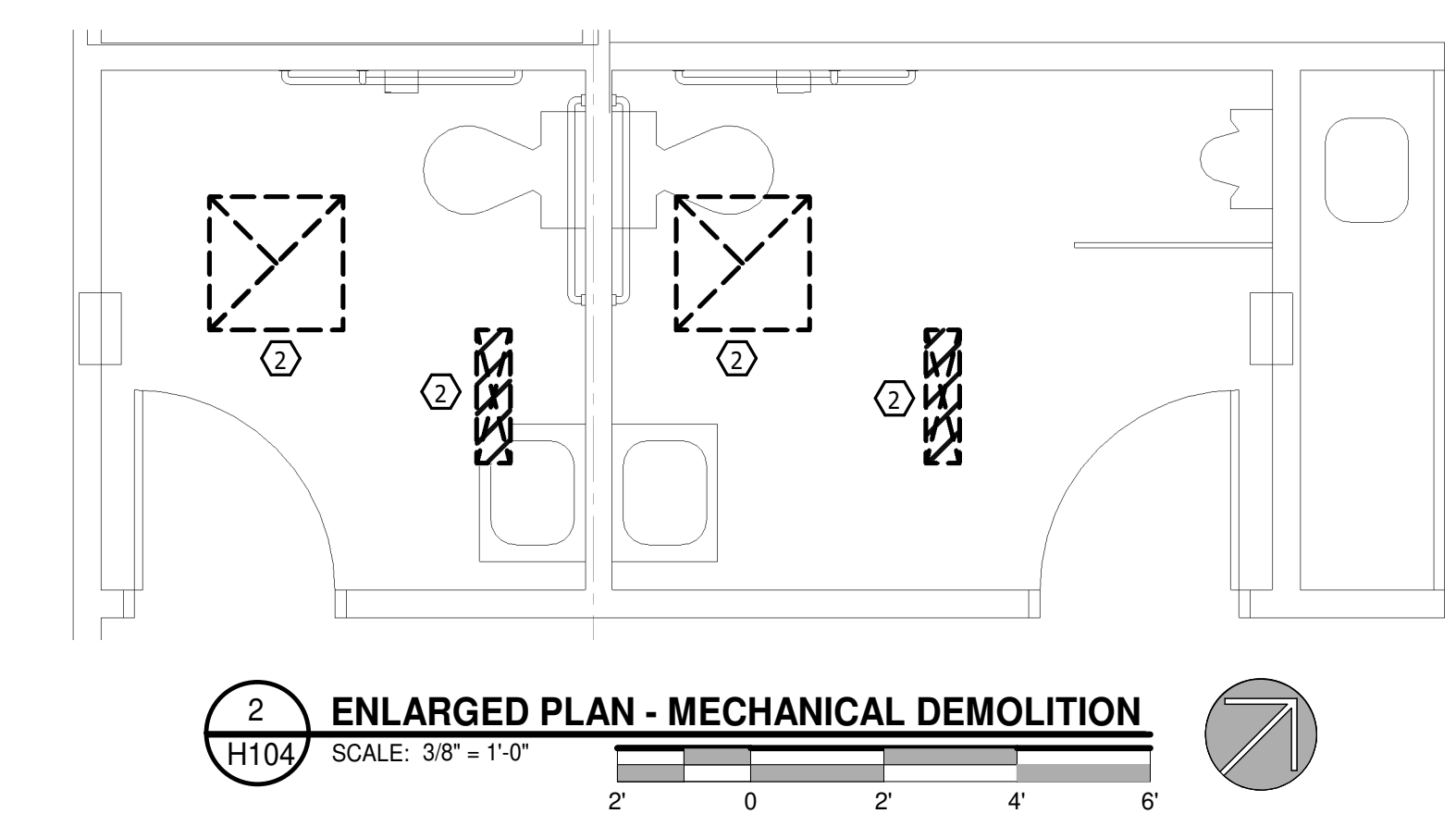
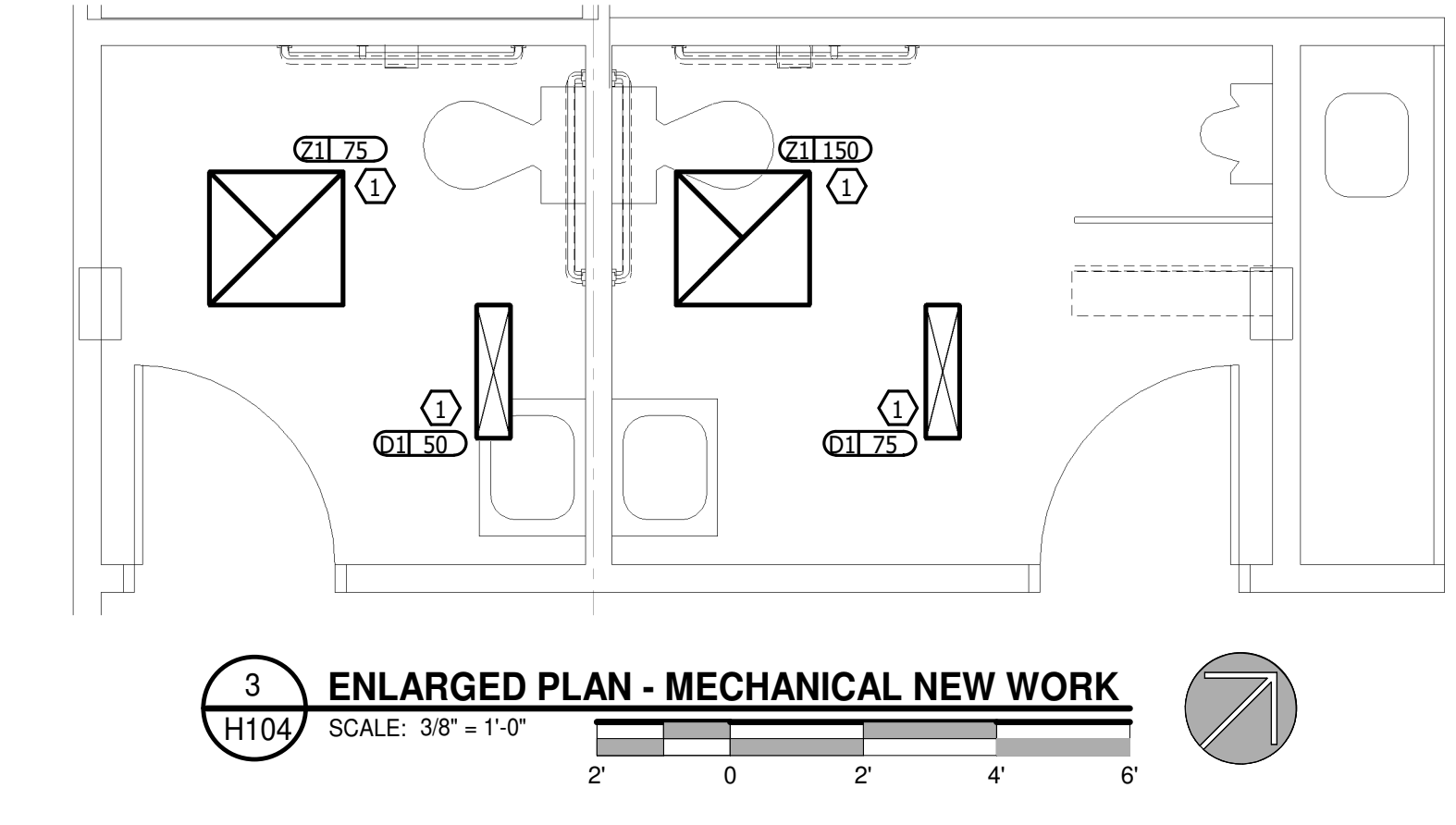
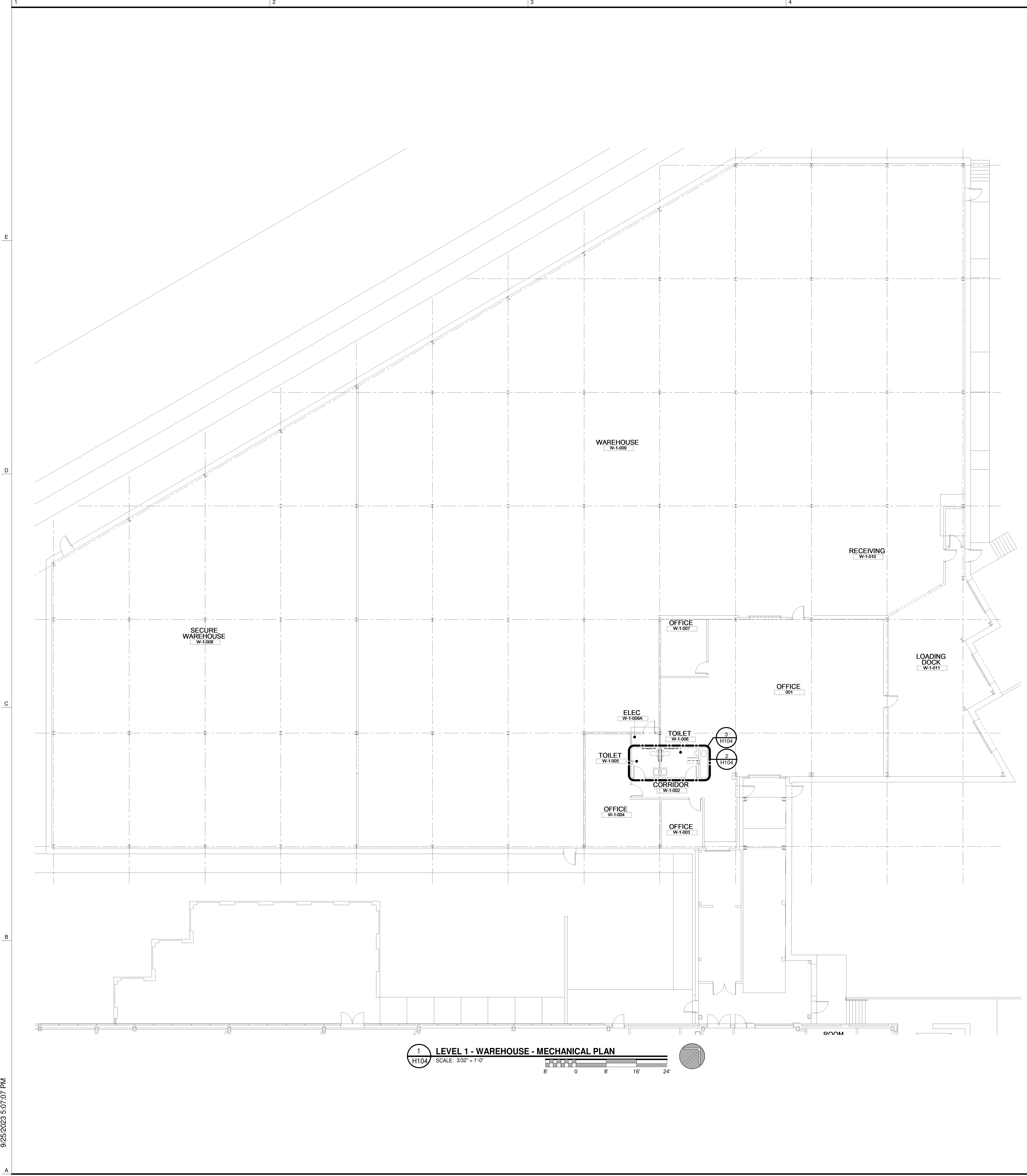
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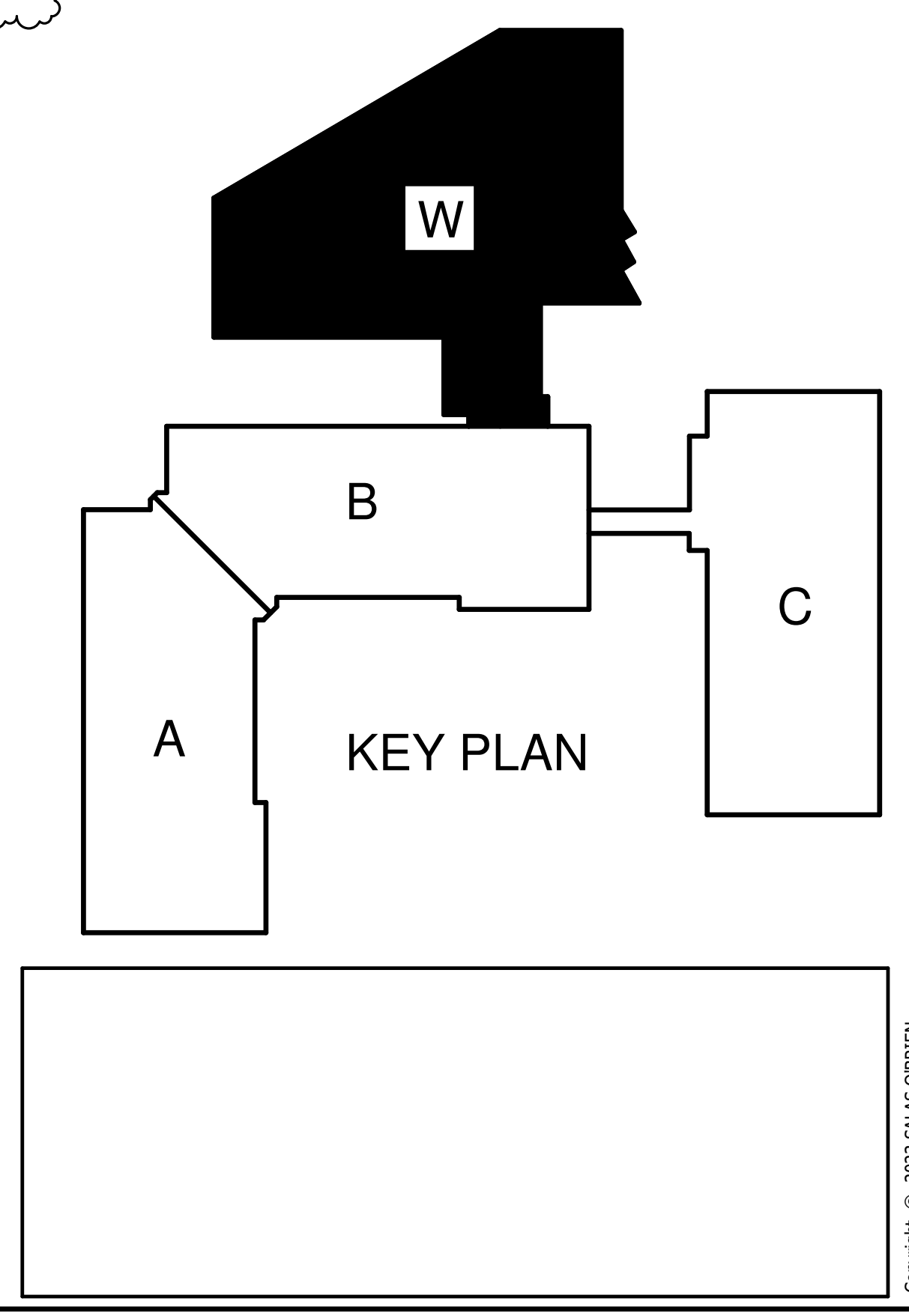
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- KEY NOTES TO H104
- RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
  - REMOVE AIR DEVICE. DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.



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**FIRST FLOOR  
 WAREHOUSE  
 FLOOR PLANS  
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 PLANS**

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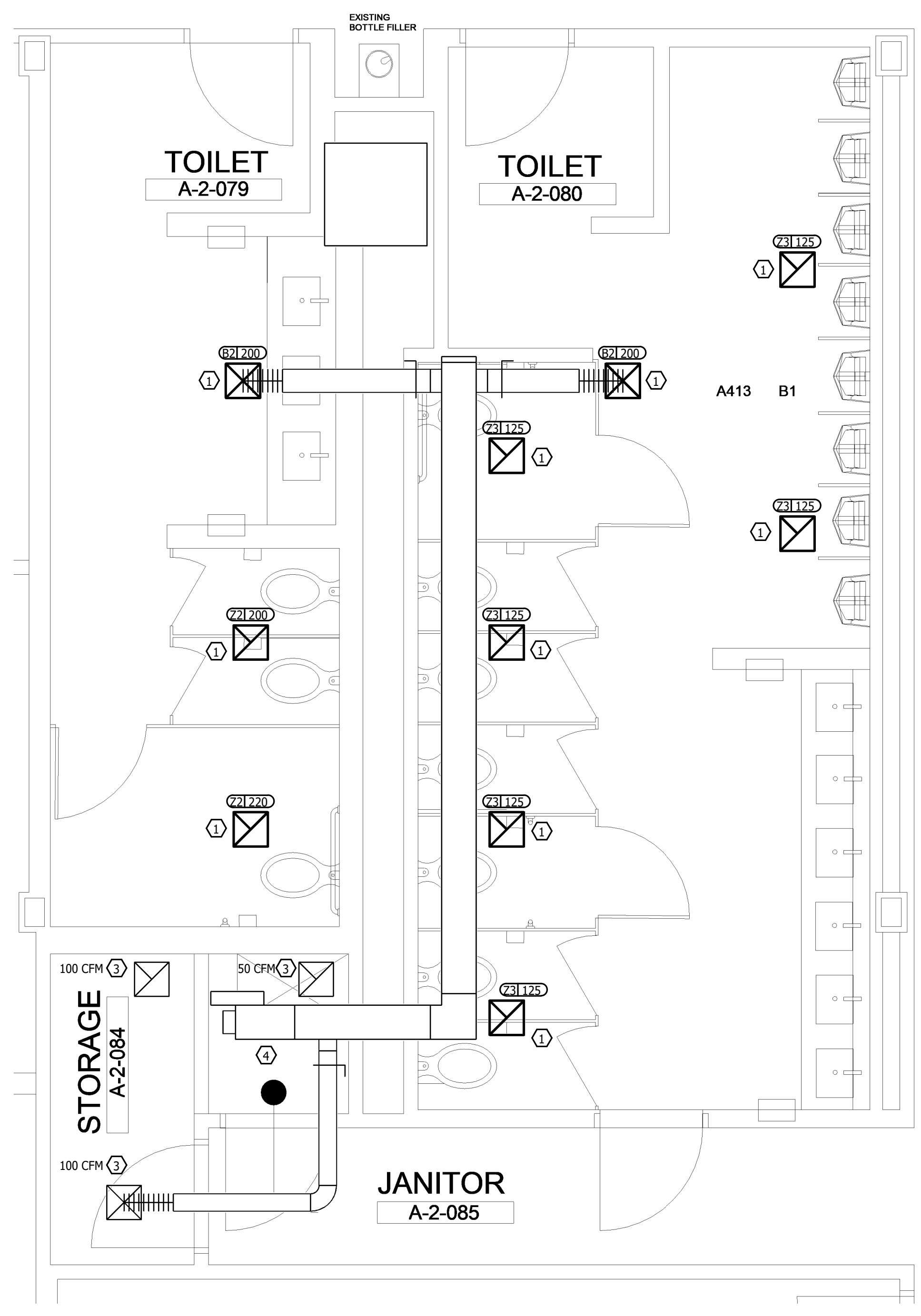
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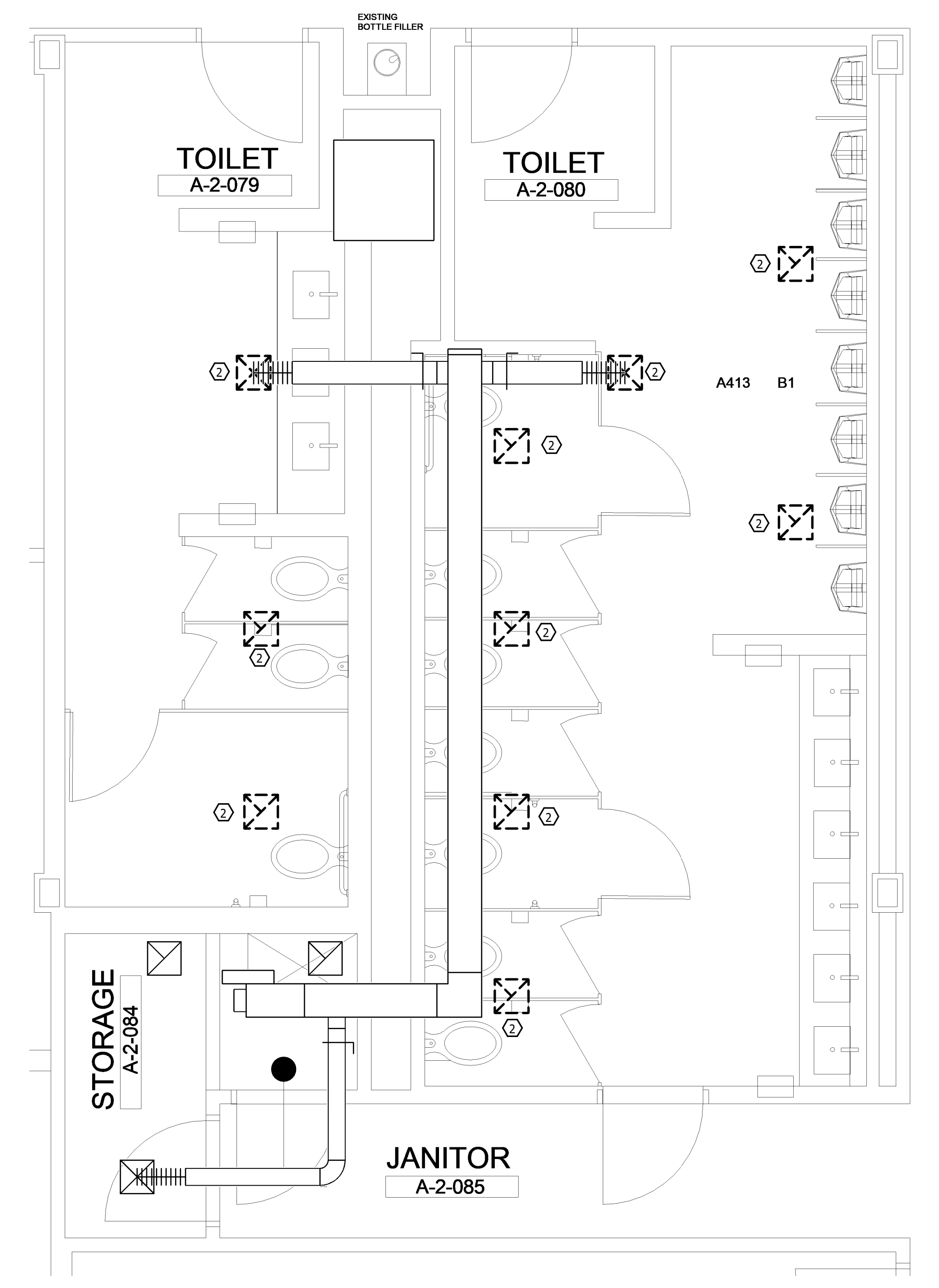
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**1 LEVEL 2 - AREA A - MECHANICAL PLAN**  
 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 0' 16' 0' 24' 0'



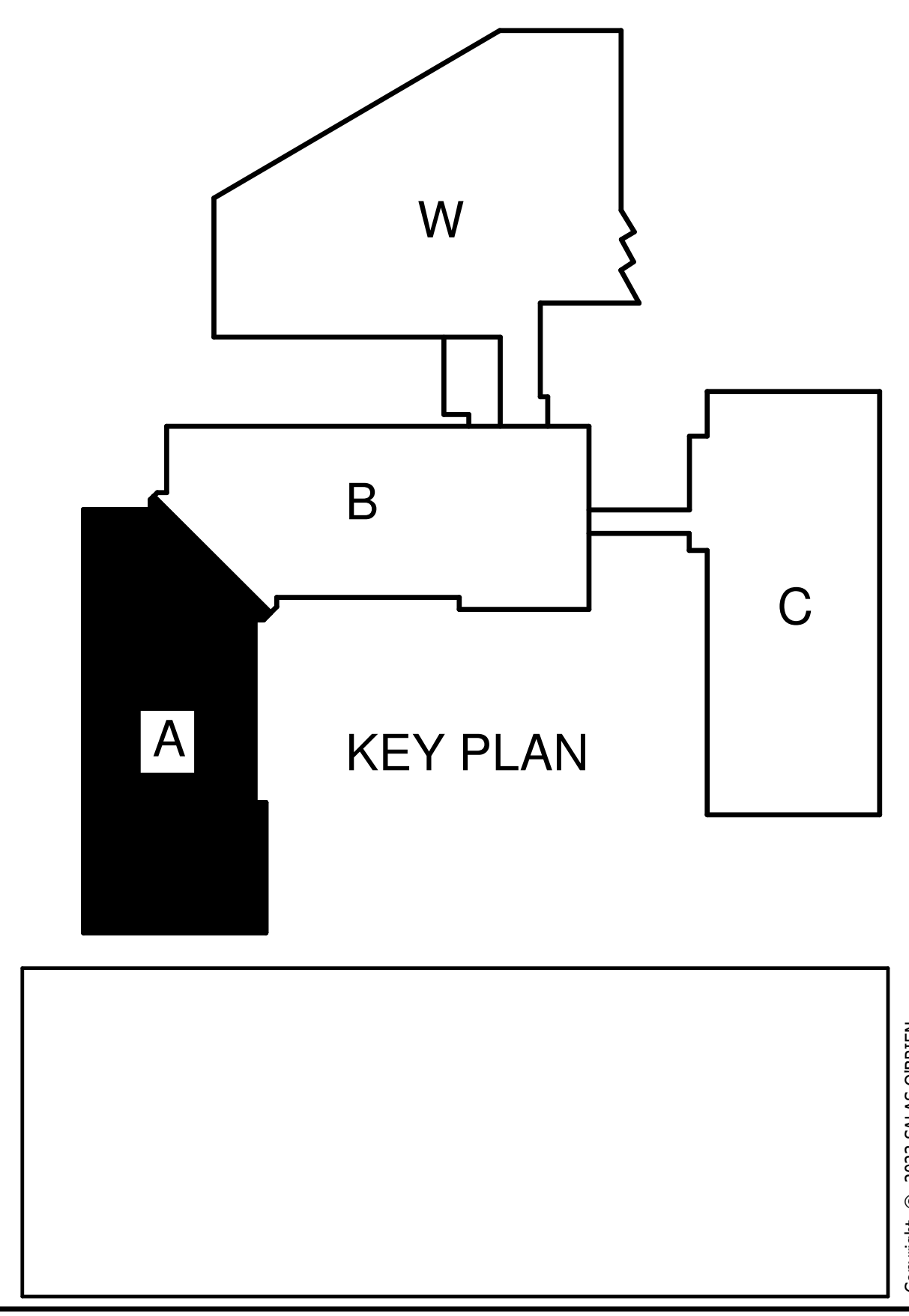
**2 ENLARGED PLAN - MECHANICAL NEW WORK**  
 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 0' 4' 0' 6' 0'



**3 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 SCALE: 3/8" = 1'-0"  
 2' 0' 2' 0' 4' 0' 6' 0'

**KEY NOTES TO H200**

- 1 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 2 REMOVE AIR DEVICE, DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- 3 RE-BALANCE EXISTING AIR DEVICE TO INDICATED CFM.
- 4 RE-BALANCE EXISTING TERMINAL UNIT TO 500 CFM.



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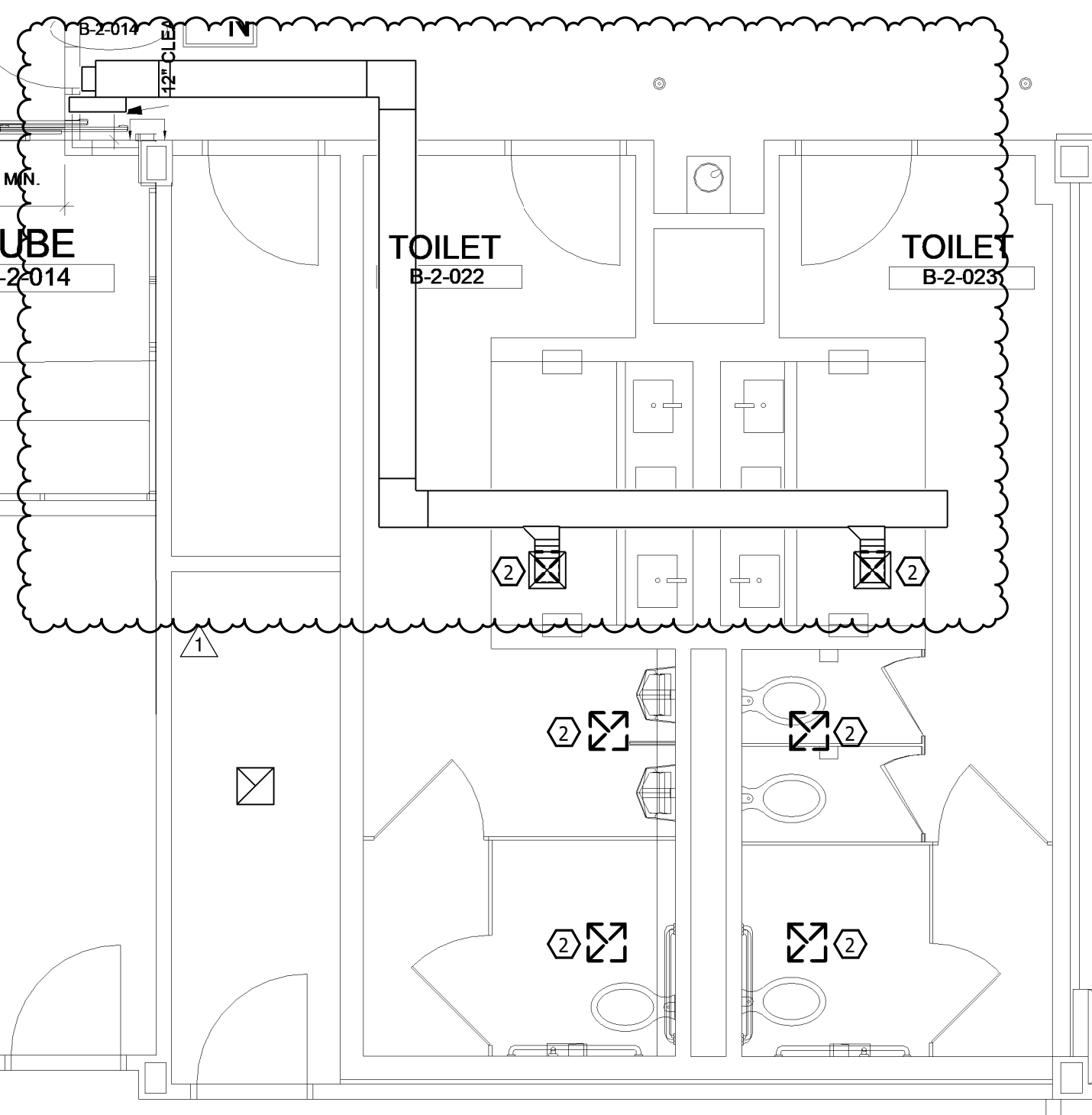
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 NO. DATE DESCRIPTION

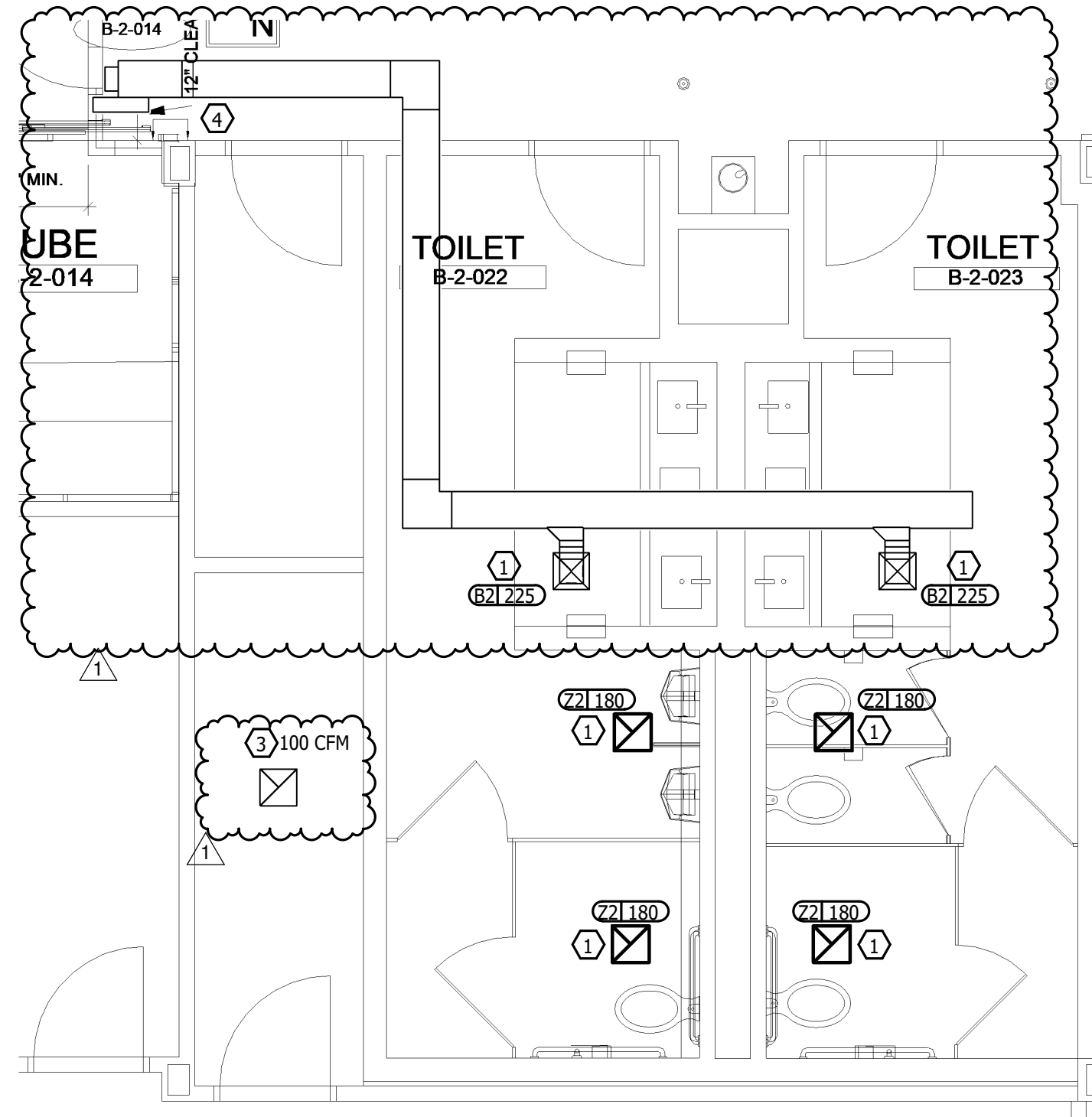
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Drawing scaled for 42x30 plots.  
**SECOND FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS**  
 JOB CODE: 2023-02594  
 DRAWING NUMBER

**H200**



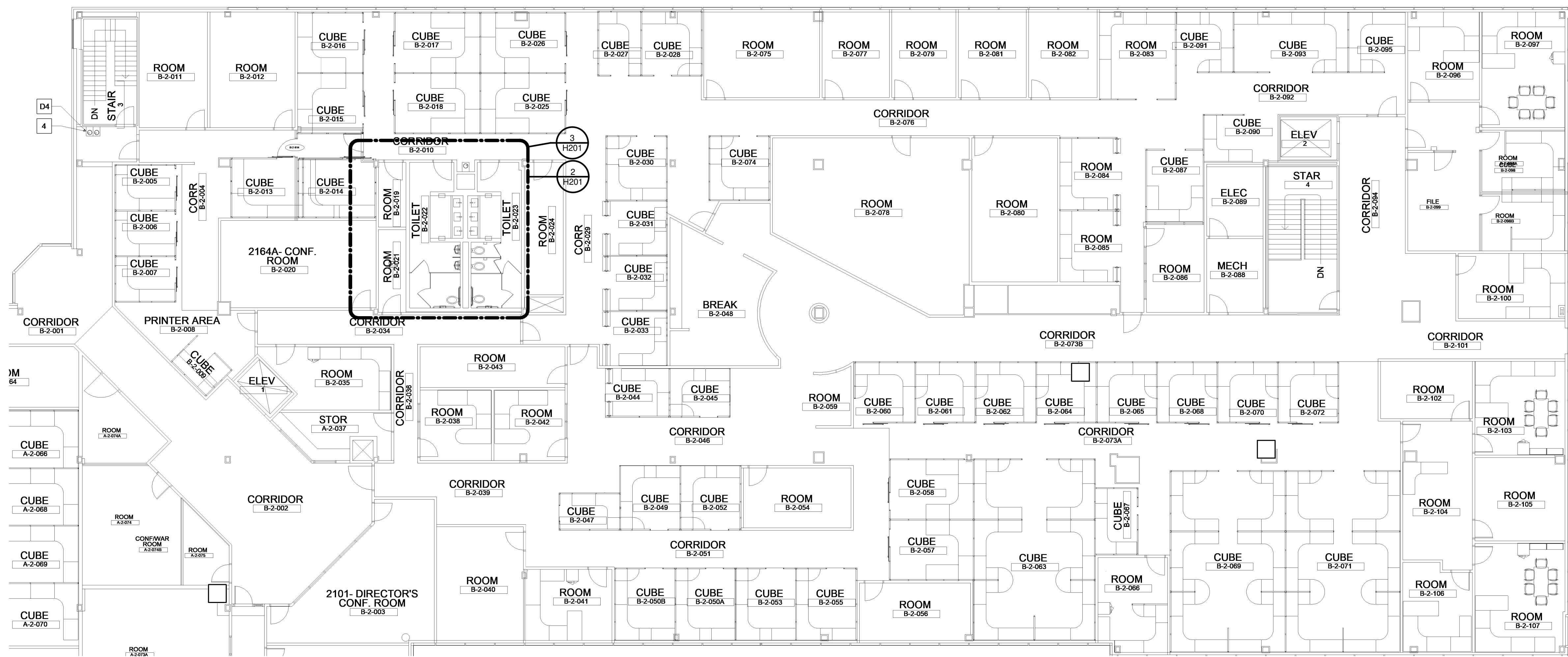
**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
H201 SCALE: 1/4" = 1'-0"  
0 4 8



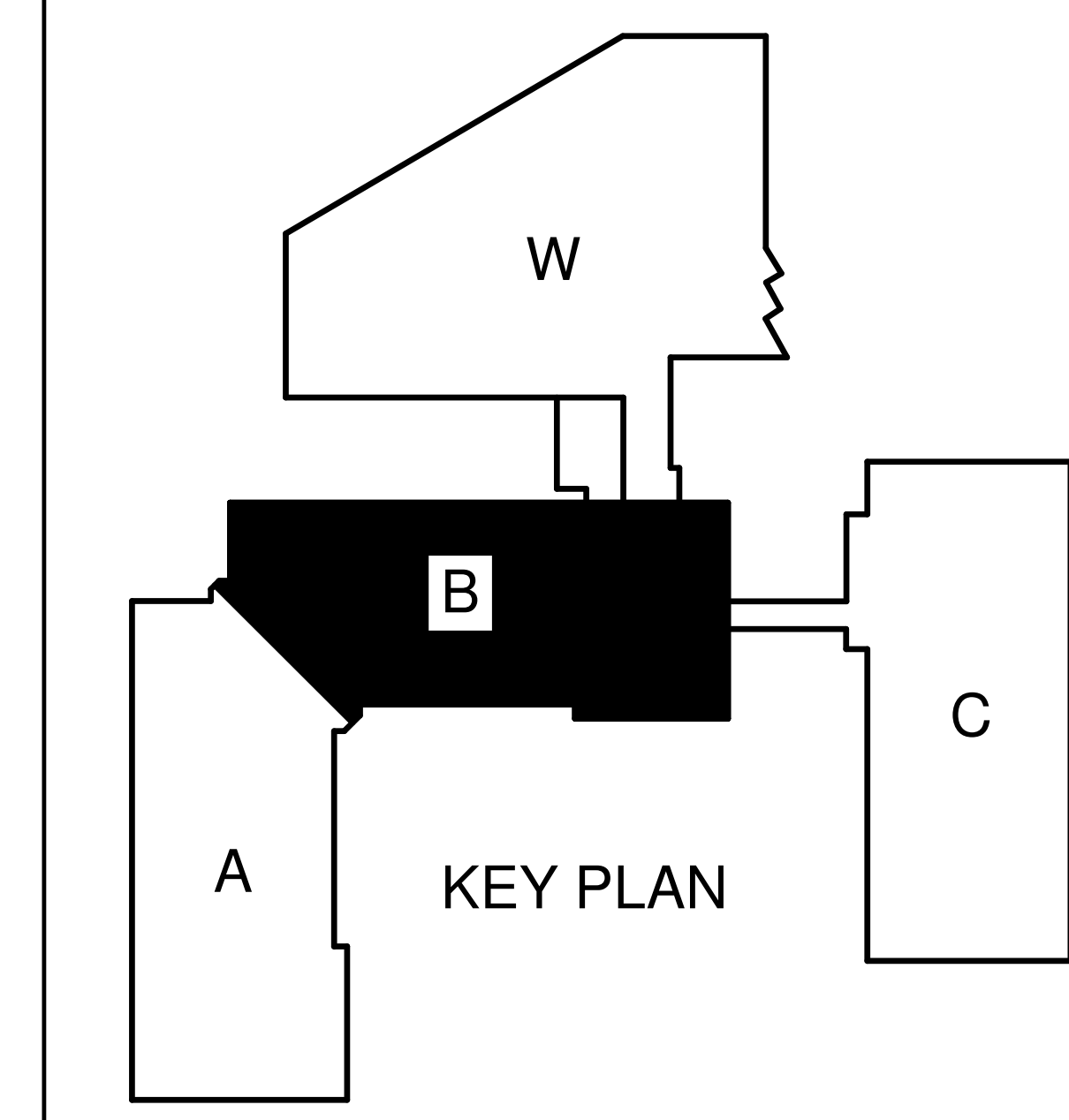
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
H201 SCALE: 1/4" = 1'-0"  
0 4 8

**KEY NOTES TO H201**

- 1 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 2 REMOVE AIR DEVICE DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- 3 RE-BALANCE EXISTING AIR DEVICE TO INDICATED CFM.
- 4 RE-BALANCE EXISTING TERMINAL UNIT TO 450 CFM.



**1 LEVEL 2 - AREA B - MECHANICAL PLAN**  
H201 SCALE: 3/32" = 1'-0"  
0 8 16 24



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FACILITY IMPROVEMENTS FOR:  
**NORTH CAROLINA JUDICIAL CENTER  
TOILET IMPROVEMENTS**  
901 CORPORATE CENTER DRIVE  
RALEIGH, NC

DWG BY: BME  
CHK BY: CPC

DATE: 07.28.2023

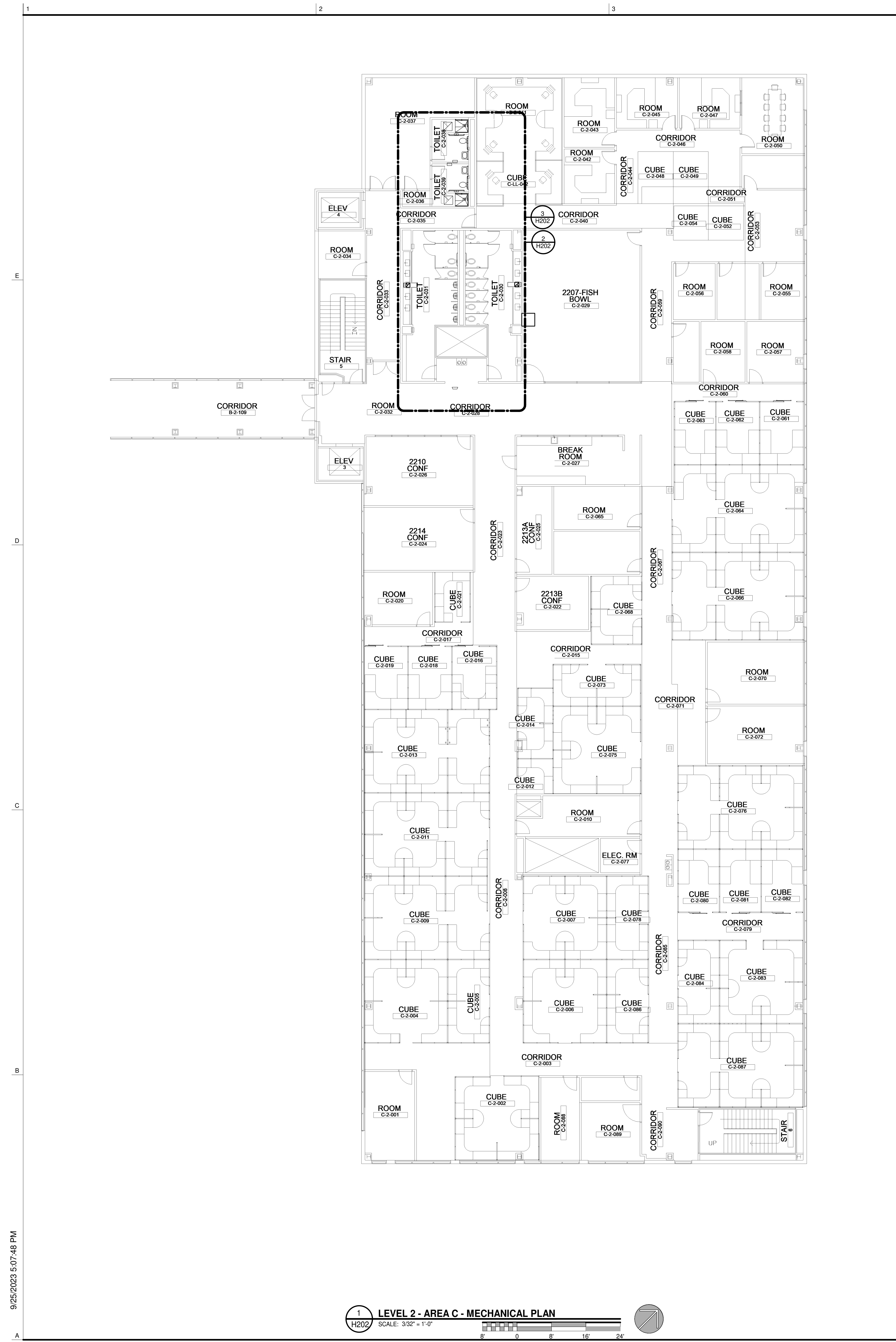
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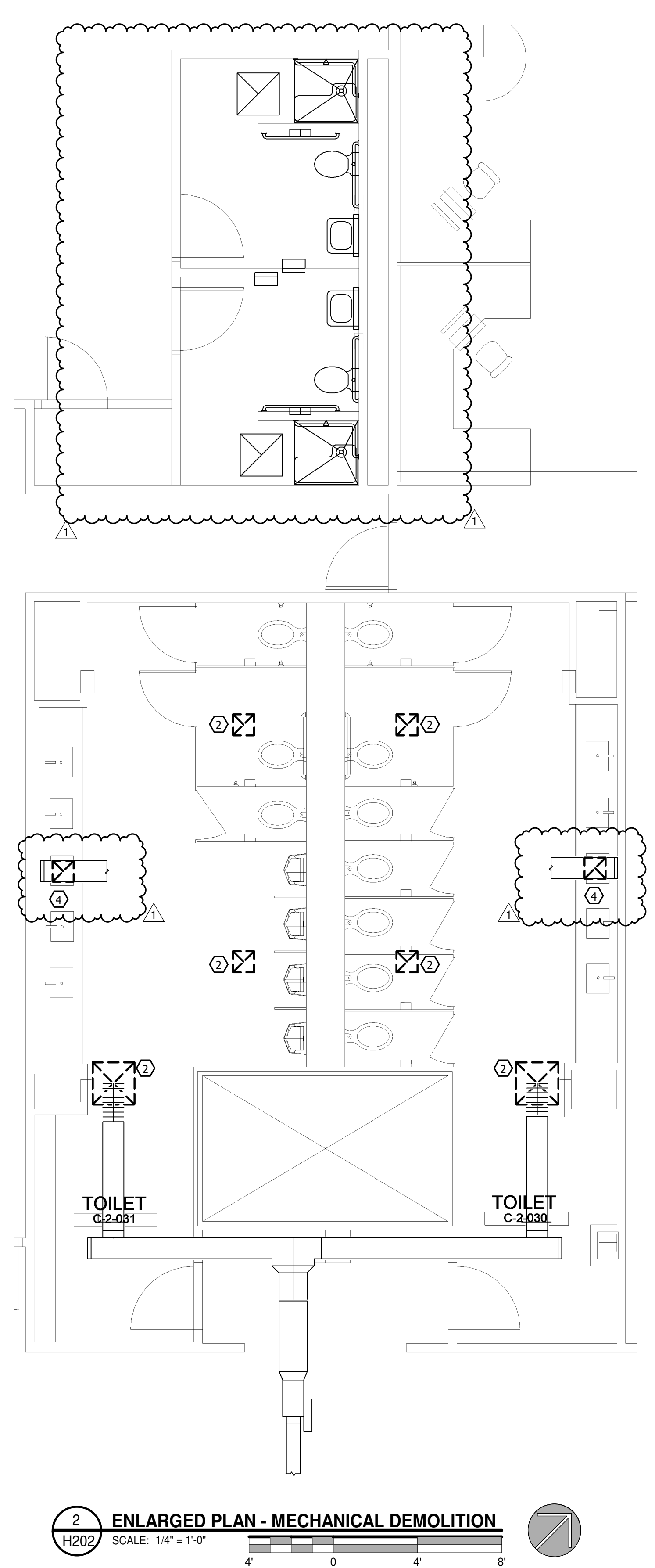
Drawing scaled for 42x30 plots.  
**SECOND FLOOR  
BUILDING B  
FLOOR PLANS  
AND ENLARGED  
PLANS**

JOB CODE: 2023-02594  
DRAWING NUMBER

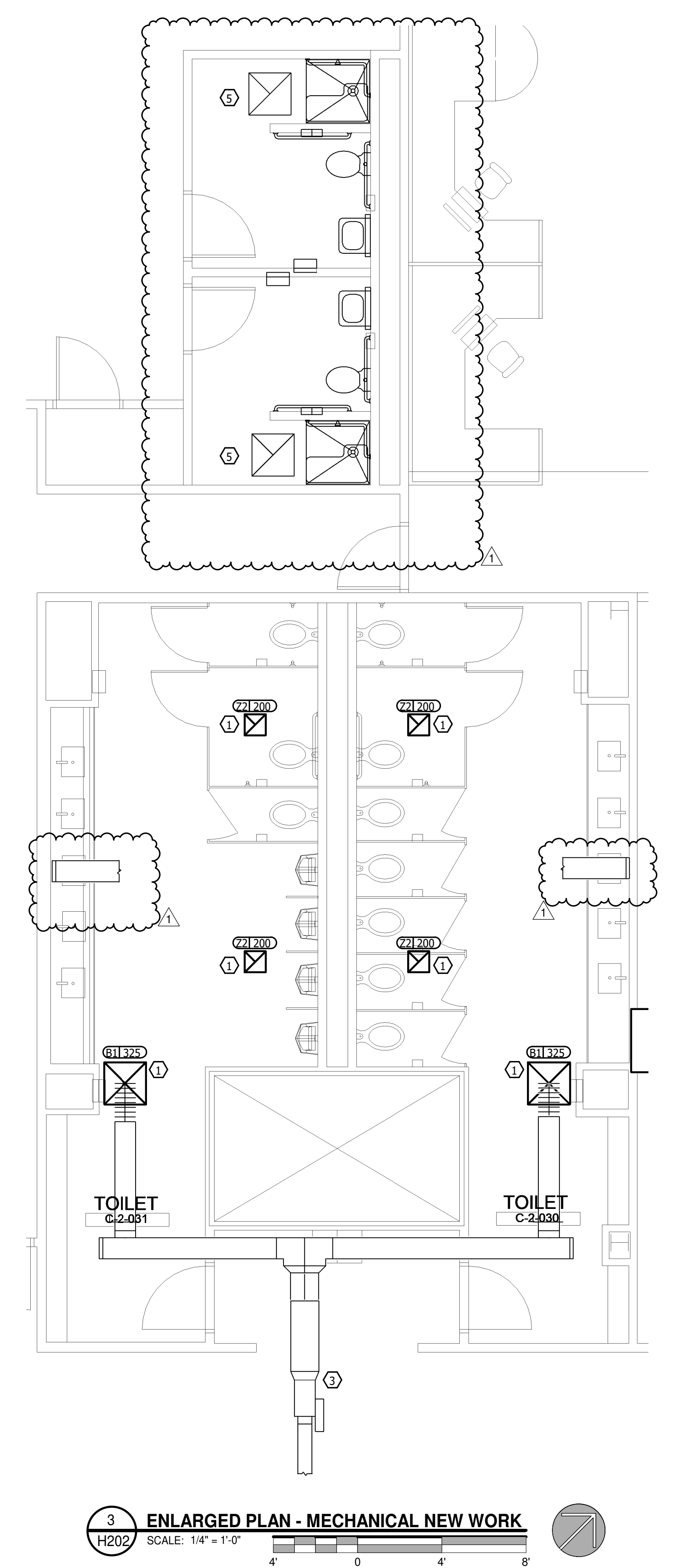
**H201**



**1 LEVEL 2 - AREA C - MECHANICAL PLAN**  
 H202 SCALE: 3/32" = 1'-0"  
 8' 0' 8' 16' 24'



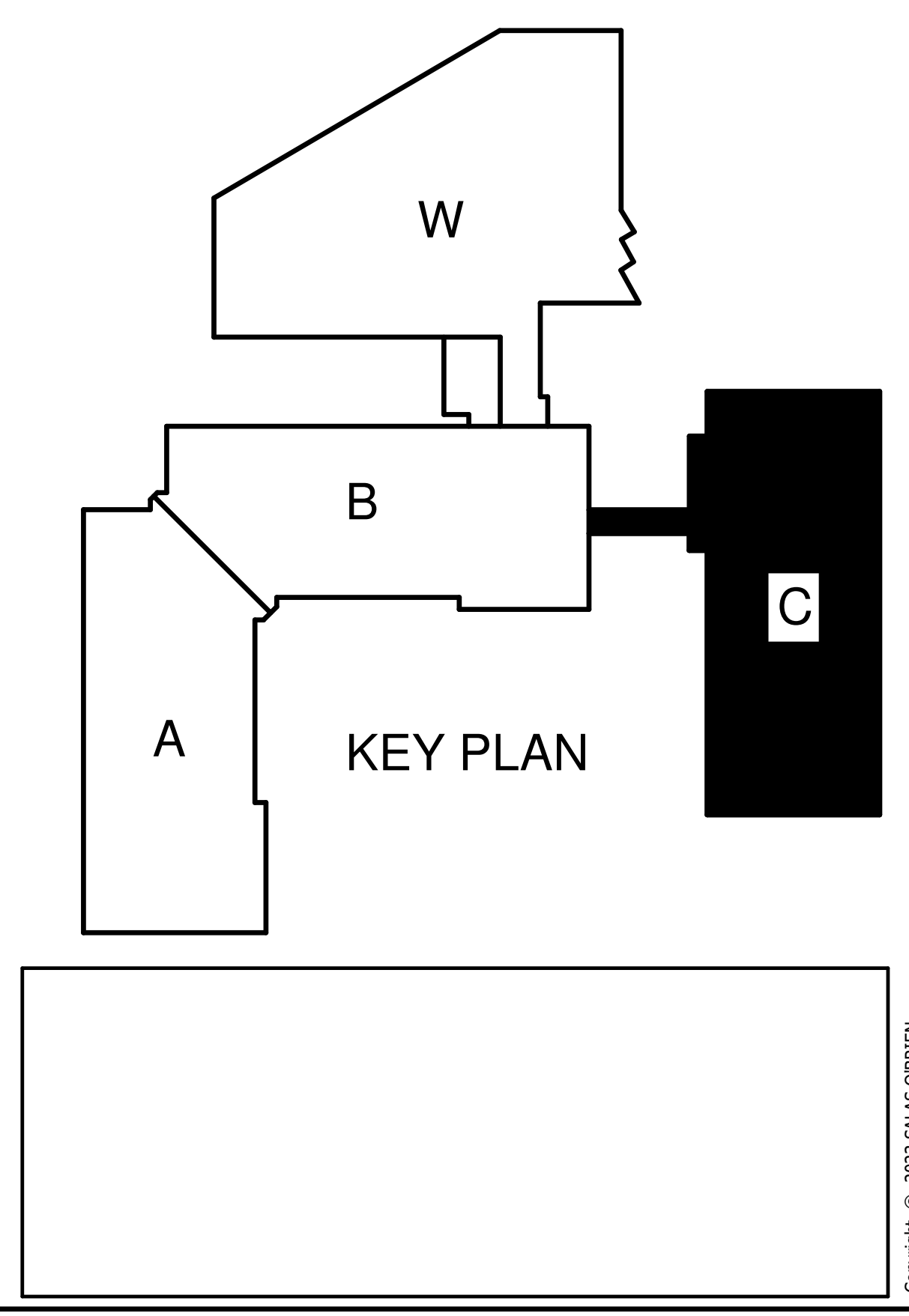
**2 ENLARGED PLAN - MECHANICAL DEMOLITION**  
 H202 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'



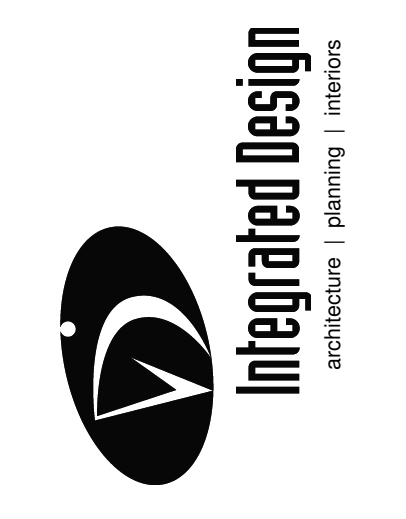
**3 ENLARGED PLAN - MECHANICAL NEW WORK**  
 H202 SCALE: 1/4" = 1'-0"  
 4' 0' 4' 8'

**KEY NOTES TO H202**

- 1 RE-INSTALL NEW AIR DEVICE IN SAME LOCATION AS EXISTING. PROVIDE TRANSITION AS NECESSARY.
- 2 REMOVE AIR DEVICE, DUCTWORK TO REMAIN FOR RE-CONNECTION IN NEW WORK.
- 3 RE-BALANCE EXISTING VAN TO 650 CFM.
- 4 REMOVE EXISTING AIR DEVICE AND BRANCH BACK TO MAIN AND CAP.
- 5 RE-BALANCE EXISTING AIR DEVICE TO 150 CFM.



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**FACILITY IMPROVEMENTS FOR:**  
**NORTH CAROLINA JUDICIAL CENTER**  
**TOILET IMPROVEMENTS**  
 901 CORPORATE CENTER DRIVE  
 RALEIGH, NC

DWG BY: BME  
 CHK BY: CPC

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Drawing scaled for 42x30 plots.  
**SECOND FLOOR**  
**BUILDING C**  
**FLOOR PLANS**  
**AND ENLARGED**  
**PLANS**

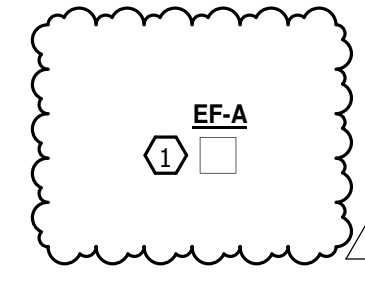
JOB CODE: 2023-02594  
 DRAWING NUMBER

**H202**

**GENERAL NOTES TO H203**  
1 FIELD VERIFY FANS TO BE RE-BALANCED PRIOR TO ANY WORK.

**KEY NOTES TO H203**  
1 RE-BALANCE EXHAUST FAN TO INDICATED CFM.  
2 EF-8 IS AN INLINE FAN LOCATED ABOVE CEILING ON THE FIRST FLOOR, SHOWN HERE FOR REFERENCE PURPOSES ONLY.

FAN	EXISTING AIRFLOW
EF-1	2800 CFM
EF-2	1700 CFM
EF-3	2800 CFM
EF-4	2250 CFM



**1 ROOF PLAN - MECHANICAL PLAN**  
H203 SCALE: 1/16" = 1'-0"

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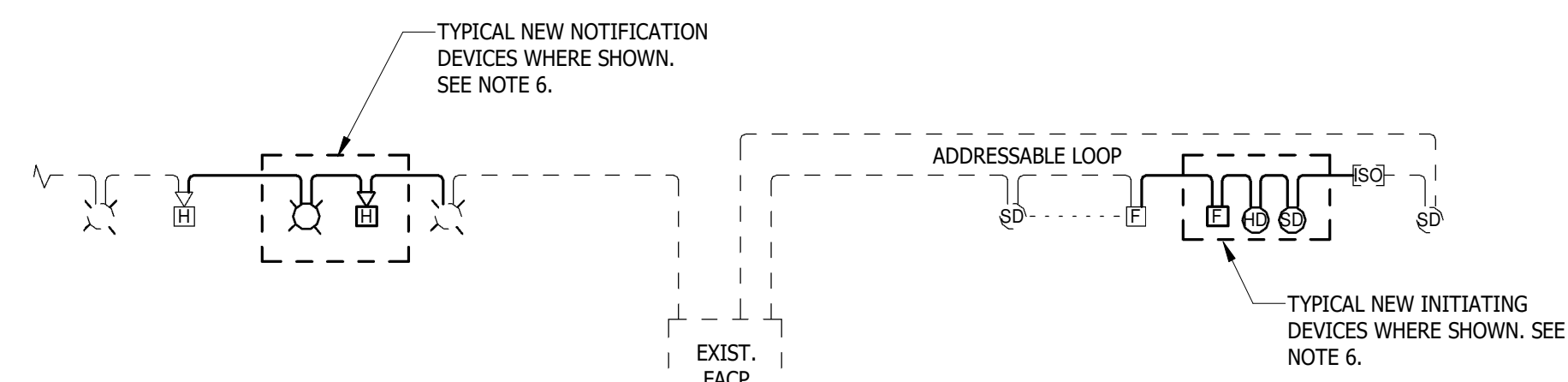
ROOF PLAN

JOB CODE: 2023-02594  
DRAWING NUMBER

**H203**

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### GENERAL NOTES

- EXISTING SYSTEM IS FC1 E3 SERIES. DEVICES INSTALLED SHALL BE COMPATIBLE WITH EXISTING SYSTEM.
- ALL FIRE ALARM SYSTEM MODIFICATIONS TO BE PERFORMED BY A FACTORY TRAINED AND APPROVED VENDOR AND TECHNICIANS.
- VERIFY PROPER OPERATION OF FIRE ALARM SYSTEM AND COMPONENTS PRIOR TO STARTING WORK AND NOTIFY ENGINEER OF ANY IDENTIFIED PROBLEMS.
- PROVIDE SEPARATE CONDUITS FOR OPPOSITE ENDS OF LOOP CONDUCTORS. DO NOT COMBINE LOOP CONDUCTORS INTO SINGLE CONDUIT RUNS EXCEPT AS PERMITTED BY THE SPECIFICATIONS.
- RISER DIAGRAM SHOWS FUNCTIONAL CONNECTIONS. WORK REQUIRED ON FLOORS TO RELOCATE DEVICES, AS REQUIRED TO PERMIT FIRE PROTECTION WORK, IS NOT SHOWN. EXACT WIRING AND CONNECTIONS FOR ALL DEVICES (NEW AND REWORKED/RELOCATED) ARE TO BE PROVIDED AS A PART OF THE FIRE ALARM SHOP DRAWING SUBMITTAL PACKAGE SUPPLIED BY THE CONTRACTOR.
- CONNECT NEW INITIATING DEVICES TO EXISTING ADDRESSABLE LOOP (IF AVAILABLE). PROVIDE ADDITIONAL ISOLATION MODULES AS NECESSARY FOR NEW EQUIPMENT SUCH THAT 20 DEVICES (MAX) ARE ISOLATED ALONG THE ENTIRE LOOP. PROVIDE ALL PROGRAMMING REQUIRED TO ACTIVATE NEW DEVICES.
- CONNECT NEW NAC DEVICES TO EXISTING NAC CIRCUIT WHERE CAPACITY IS AVAILABLE. PROVIDE AND SUBMIT CALCULATIONS TO DEMONSTRATE CAPACITY (MAXIMUM 80% LOADING) IN EXISTING CIRCUITS WHERE DEVICES ARE TO BE ADDED. PROVIDE ADDITIONAL POWER SUPPLY WHERE EXISTING CIRCUITS LACK SUFFICIENT CAPACITY.
- CONTRACTOR SHALL TAKE INITIAL STEPS TO ISOLATE FIRE ALARM DEVICES AND CIRCUITS IN THE PROJECT AREA TO PERMIT CONSTRUCTION ACTIVITY. CIRCUIT INTEGRITY SHALL BE MAINTAINED OUTSIDE THE PROJECT AREA AND CONTRACTOR SHALL PROVIDE TEMPORARY PROVISIONS AS REQUIRED TO MAINTAIN INTEGRITY AND OPERATION OF ALL FIRE ALARM CIRCUITS AND DEVICES OUTSIDE THE PROJECT AREA THROUGHOUT CONSTRUCTION DURATION.
- CONTRACTOR SHALL PROVIDE ALTERNATIVE MEANS OF PROTECTION IN BUILDING DURING ENTIRE TIME WHEN OCCUPIED AREAS OF BUILDING ARE EXPOSED TO A REDUCTION IN PROTECTION, EITHER WITH ALARM INITIATION CAPABILITY, OCCUPANT NOTIFICATION OR CONTROL FUNCTIONS RELATING TO GENERAL ALARM CONDITIONS. SUCH MEANS SHALL INCLUDE A FIRE WATCH AND/OR STAFFED PRESENCE IN THE BUILDING TO NOTIFY OCCUPANTS.
- PERFORM A 10% TEST OF ALL EXISTING DEVICES AND CIRCUITS FOLLOWING MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM WHEN ISOLATING THE PROJECT AREA AND WHEN OTHER MODIFICATIONS IMPACTING THE SYSTEM PROGRAM ARE MADE DURING THE CONSTRUCTION DURATION.
- AS PART OF INTEGRATING NEW WORK INTO THE OVERALL SYSTEM, COMPLETELY TEST ACTIVATION AND CONTROL RESPONSES (100%) FOR ALL NEW AND REWORKED DEVICES. IN ADDITION, TEST 10% OF ALL DEVICES ON EACH ADDRESSABLE LOOP IN SYSTEM. PROVIDE A PRINT OUT SHOWING RESULTS OF TEST AND SENSITIVITIES OF ALL SMOKE DETECTORS.

SW DETAIL: FA0021R1

### 2 FIRE ALARM RISER DIAGRAM SCALE: NTS

LIGHTING FIXTURE SCHEDULE										
TYPE MARK	DESCRIPTION	MOUNTING	LUMENS	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION	COMMENTS	IMAGE	
AL	2x4 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	RECESSED, GRID LAY-IN	4990	120	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE	CURVED SHIELDING		
AS	2x4 SURFACE MOUNTED LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	SURFACE	4990	120	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE	CURVED SHIELDING		
B	2x2 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	RECESSED, GRID LAY-IN	2143	120	18 VA	0-10V	COLUMBIA LCAT22 LITHONIA DAY-BRITE CREE	CURVED SHIELDING		
BF	2x2 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS. FIXTURE TO BE SELECTED WITH FLANGE KIT INCLUDED.	RECESSED, GRID LAY-IN	2143	120	18 VA	0-10V	COLUMBIA LCAT22 LITHONIA DAY-BRITE CREE	CURVED SHIELDING, FLANGE KIT		
C1	6" RECESSED DOWNLIGHT	RECESSED	2000	120	23 VA	0-10V	LITHONIA LDNG PRESCOLITE LIGHTTOLLER CREE LIGHTING LSI INDUSTRIES	CLEAR DIFFUSER		
G	4" RECESSED LINEAR LED	RECESSED	725/FT	120		0-10V	FINELITE HP-4-R-D			
G2	2" RECESSED LINEAR LED	RECESSED	725/FT	120		0-10V	FINELITE HP-2-R-D			
G3	2" RECESSED LINEAR LED	RECESSED	725/FT	120		0-10V	FINELITE HP-2-R-D			
N	MIRROR LIGHT	TAPE	500/FT	120		0-10V	WAC LIGHTING STRAIGHT EDGE PRO LLI 90° EXTRUSION - LLI-90D TIVO LIGHTING FLEX120 KEVLY LIGHTING - LED STRIP TAPE LITHONIA LUMES SP1100 T. CHLORIDE BISHLELL MULE	MOUNT LIGHT BEHIND MIRROR, FULL PERIMETER TO RECEIVE LIGHT.		
XB	REMOTE LED EMERGENCY LIGHTING UNIT	SURFACE	550	120	5					

### FIXTURE SCHEDULE NOTES:

- THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. MANUFACTURER'S NAMES AND FIXTURE SERIES/MODELS IN SCHEDULE ARE NOT A BRAND NAME SPECIFICATION. EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.
- PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PROTECTION, CURRENT TOTAL HARMONIC DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVERS MUST BE RF SUPPRESSED FOR MINIMUM INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIMUM POWER FACTOR MUST BE SUBMITTED AS A PART OF THE FIXTURE SUBMITTAL DATA.
- UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
- PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.
- PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.
- ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
- ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.
- FOR LIGHT FIXTURES HAVING LINEAR VISUAL FEATURES (IE: CENTER BASKET, LOUVERS, ETC), COORDINATE AND ALIGN COMPONENTS IN A SIMILAR DIRECTION CONSISTENTLY ACROSS THE BUILDING SPACES.

SW DETAIL: IN0011 LED

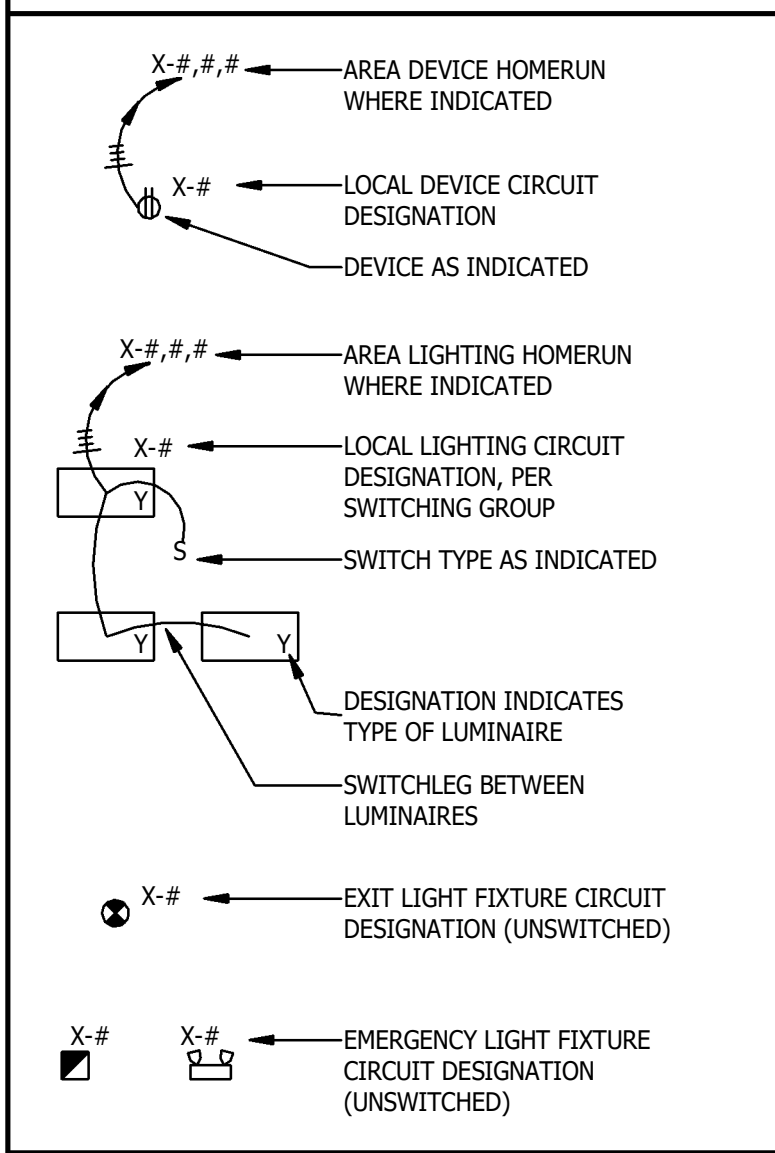
### ELECTRICAL ABBREVIATIONS

A	AMPERES OR AMP METER
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CELSIUS; COIL
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CD/CD	CANDELA
CLG	CEILING
COAX	COAXIAL CABLE
CONTR	CONTRACTOR
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACT
ECC	ELECTRICAL CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
IW	WITH
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Z	IMPEDANCE
Ø	ROUND; DIAMETER; PHASE

### ELECTRICAL ABBREVIATIONS

PUN	PER UNIT NAMEPLATE
PVC	POLYVINYL CHLORIDE (CONDUIT)
RD	ROUND
REV	REVISION
RLA	RATED LOAD AMPS
RMC	RIGID METAL CONDUIT
SN	SOLID NEUTRAL
SNAC	SIGNAL NOTIFICATION APPLIANCE CIRCUIT
SP	SURGE PROTECTED
SPD	SURGE PROTECTED DEVICE
SPDT	SINGLE POLE DOUBLE THROW
STS	AUTOMATIC TRANSFER SWITCH
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
T8B	TELEPHONE BACK BOARD
TELECO	TELECOMMUNICATIONS
M	TEMPERATURE
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE; VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WIRE
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Z	IMPEDANCE
Ø	ROUND; DIAMETER; PHASE

### ELECTRICAL CIRCUITING KEY



### ELECTRICAL SYMBOLS

	WALL MTD LIGHTING FIXTURE AND OUTLET
	PENDANT LIGHTING FIXTURE AND OUTLET
	DOWNLIGHT LIGHTING FIXTURE AND OUTLET
	WALL MTD LIGHTING FIXTURE AND OUTLET
	PENDANT MOUNTED STRIP FIXTURE
	CEILING MTD LIGHTING FIXTURE AND OUTLET
	WALL MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES DIRECTION.
	CEILING MTD EXIT SIGN AND OUTLET, DUAL FACE. ARROWS INDICATE DIRECTION.
	EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT.
	CEILING MOUNTED EMERGENCY BATTERY LIGHT
	EMERGENCY LIGHT REMOTE HEAD
	GROUND MOUNTED FLOODLIGHT AND OUTLET
	AREA LUMINAIR AND STANDARD
	FLUSH MTD TOGGLE SWITCH, SPST, 20A, 120/277V
	FLUSH MTD TOGGLE SWITCH, DPST, 20A, 120/277V
	FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/277V
	FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/277V
	FLUSH MTD DIMMER SWITCH, 20A, 120/277V
	FLUSH MTD KEY SWITCH, 20A, 120/277V
	FLUSH MOUNTED OCCUPANCY SENSOR SWITCH, 20A, 120/277V
	FLUSH MTD LIGHTED HANDLE TOGGLE SWITCH, SPST, 20A, 120V, LIGHT ON WITH OPEN SWITCH
	FLUSH MTD TOGGLE SWITCH WITH PILOT LIGHT. LIGHT ON WITH CLOSED SWITCH
	TIMED SWITCH
	CEILING MTD INFRA-RED OCCUPANCY SENSOR SWITCH
	CEILING MTD ULTRASONIC OCCUPANCY SENSOR SWITCH
	CEILING MTD DUAL TECHNOLOGY (IR, U) OCCUPANCY SENSOR SWITCH
	PHOTOCELL
	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W
	FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A, 125V, 3W
	FLUSH MTD DUPLEX RECEPTACLE WITH DUPLEX USB OUTLETS, 20A, 125V, 3W
	FLUSH MTD SINGLE RECEPTACLE, 20A, 125V, 3W
	FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W
	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, SPLIT WIRED WITH TOP OUTLET SWITCHED
	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSLASH OR COUNTERTOP IF NO BACKSLASH EXISTS.
	FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSLASH OR COUNTERTOP IF NO BACKSLASH EXISTS.
	WALL MOUNTED POWER DEVICE
	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDULES FOR MARK
	WALL MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
	CEILING MTD RECEPTACLE AND OUTLET, 20A, 125V
	CEILING MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
	CEILING MTD DUPLEX RECEPTACLE & TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
	CEILING MTD PUBLIC ADDRESS SPEAKER
	FLUSH MTD VOLUME CONTROL FOR SPEAKER
	WALL MTD TELEVISION ANTENNA/ELECTRICAL OUTLET, REFER TO SCHEDULES FOR MARK
	PANELBOARD, 250V LEVEL
	PANELBOARD, 600V LEVEL
	HOMERUN; ARROW HEADS INDICATE NUMBER OF CIRCUITS, LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. SHORT TICK MARKS INDICATE NUMBER OF CURRENT CARRYING PHASE CONDUCTORS. LONG TICK MARK(S) INDICATE NEUTRAL(S). GROUNDING CONDUCTORS REQUIRED BY SPECIFICATIONS ARE NOT SHOWN. CONDUCTOR SIZES SPECIFIED ON THE PANEL SCHEDULES ARE MANDATORY FOR THE ENTIRE CIRCUIT EXCEPT WHERE SPECIFICATIONS REQUIRE A SIZE INCREASE FOR VOLTAGE DROP.
	SURFACE METAL RACEWAY WITH DEVICES, LETTER DESIGNATES TYPE
	PENDANT MTD, PLUG-IN BUS DUCT WITH PLUG-IN CIRCUIT BREAKER OR FUSE SWITCH AND TAP BOX. DUCT AND SWITCH RATING AS NOTED.
	TOP # - DEVICE MAXIMUM RATING OR FRAME SIZE BOTTOM # - FUSE SIZE OR DEVICE SETTING
	DISCONNECT SWITCH.
	COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. SEE SCHEDULE OR NOTE.
	FLUSH MTD MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOAD HEATERS
	MAGNETIC MOTOR STARTER
	3 POLE CIRCUIT BREAKER IN ENCLOSURE. # INDICATES CB RATING.
	VARIABLE FREQUENCY DRIVE CONTROLLER, 40" AFF, PROVIDED BY HVAC OR PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
	MAGNETIC CONTACTOR, SIZE PER SCHEDULE
	JUNCTION, PULL, TAP OR OUTLET BOX (CODE SIZE)
	TIME CLOCK
	MAGNETIC RELAY, SIZE PER SCHEDULE

### KEYED NOTES:

- GFI BREAKER PROTECTED CONDUCTORS WITHIN CONDUIT CONCEALED WITHIN WALL.
- DUPLEX RECEPTACLE(S) WITH LABEL IDENTIFYING OUTLET AS GFI PROTECTED. LOCATE RECEPTACLE WITHIN EACH COOLER HOUSING. COORDINATE EXACT MOUNTING LOCATION OF EACH RECEPTACLE WITH EWC MANUFACTURER AND PLUMBING CONTRACTOR.

### 1 ELECTRIC WATER COOLER GFCI DETAIL SCALE: NTS



### ELECTRICAL GENERAL NOTES

- ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT.
- SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
- UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
- UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF. RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROUNDING TERMINAL ON THE BOTTOM.
- TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED. "W" INDICATES MOUNTING AT 42" AFF. "C" INDICATES MOUNTING ABOVE/COUNTERTOP WITH ALIGNMENT AND HEIGHT AS INDICATED FOR RECEPTABLES SIMILARLY MOUNTED.
- FIRE ALARM PULL STATIONS ARE TO BE VERTICALLY MOUNTED AT 42" AFF.
- FIRE ALARM INDICATING APPLIANCES SHALL BE 15 CG RATING, UNLESS NOTED OTHERWISE ON THE PLANS.
- UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF. ELEMENT AT 6'-8" AFF OR 6' BFC, WHICHEVER IS LOWER. WHERE DUCTWORK, CONDUIT, OR OTHER OBSTRUCTIONS BLOCK DIRECT VIEW OF APPLIANCE, MOUNT 6" BELOW SUCH OBSTRUCTIONS.
- CEILING MOUNTED SMOKE DETECTORS ARE SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECTURE. WALL MOUNTED SMOKE DETECTORS ARE TO BE MOUNTED 10" BELOW FINISHED CEILING TO THE CENTER OF DEVICE AND A MINIMUM OF 12" FROM ADJACENT WALLS OR OTHER OBSTRUCTIONS.
- COORDINATE SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS WITH HVAC SUPPLY AND RETURN GRILLES. MAINTAIN 3'-0" CLEARANCE BETWEEN EDGE OF SUPPLY GRILL AND EDGE OF SMOKE DETECTOR.
- UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
- LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CIRCUIT RELATIONSHIP.
- NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION.
- SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR OPERATION.

### ELECTRICAL DEMOLITION NOTES

- EXISTING ELECTRICAL ITEM TO REMAIN. REFEED FROM EXISTING CIRCUITING IF DEMOLITION IN ADJACENT AREAS DISCONNECT EXISTING CIRCUITING.
- EXISTING ELECTRICAL ITEM TO BE REMOVED INCLUDING ALL WIRING, CONDUIT AND ASSOCIATED ELECTRICAL ITEMS.
- ALL DEMOLITION WORK IS TO BE COORDINATED WITH PHASING OF CONSTRUCTION AND BID ALTERNATES AS OUTLINED ON ARCHITECTURAL SHEETS.
- REMOVE ALL ELECTRICAL CONDUIT, CABLE, WIRING, DEVICES, JUNCTION BOXES, FITTINGS, AND RELATED ITEMS FROM ALL WALLS, CEILING, FLOORS, AND/OR PORTIONS OF SAME INDICATED AS BEING DEMOLISHED BY ANY DIVISION OF THE CONTRACT DOCUMENT SET OR INDICATED ELSEWHERE IN THE CONTRACT DOCUMENT SET AS REQUIRING ELECTRICAL DEMOLITION.
- REMOVE ALL LIGHTING FIXTURES AND RELATED ITEMS FROM THE DEMOLITION AREA OR OTHER AREAS WHERE NEW LIGHTING FIXTURES ARE TO BE INSTALLED. EXISTING CONDUIT OR CABLE SERVING ITEMS OUTSIDE THE DEMOLITION AREA MAY REMAIN IF THEY ARE CONCEALED BY THE NEW CONSTRUCTION AND MEET THE SPECIFICATIONS REQUIREMENTS OF THE PRESENT PROJECT. NEW FIXTURES ARE TO BE SUPPLIED BY NEW (OR REUSED) CIRCUITS AS INDICATED.
- EXTEND OR RELOCATE ALL EXISTING CIRCUITS AND RELATED ITEMS SERVING EXISTING UTILIZATION OR OTHER EQUIPMENT WHERE SUCH CIRCUITS OR ITEMS ARE DISRUPTED DUE TO DEMOLITION ACTIVITIES OF ANY DIVISION OF THIS PROJECT. RELOCATE ALL EXISTING JUNCTION BOXES OR SIMILAR ITEMS THAT WILL BE RENDERED INACCESSIBLE BY NEW CONSTRUCTION FURNISHED UNDER ANY DIVISION OF THIS PROJECT. PROVIDE ANY AND ALL TEMPORARY ELECTRICAL SUPPLY (SUPPLIES) AS NEEDED TO MEET THIS REQUIREMENT.
- REMOVE ALL ABANDONED CIRCUITS BACK TO THE POINT OF SUPPLY OR BACK TO THE POINT WHERE OTHER REMAINING LOADS ARE CONNECTED. LABEL ANY UNUSED OVERCURRENT DEVICES AS 'SPARE'.
- WHERE EQUIPMENT OR DEVICES ARE REMOVED AND NOT REPLACED BY A SIMILAR ITEM OR EQUIPMENT, REPAIR WALL SURFACES TO MATCH EXISTING SURROUNDING SURFACE. PAINT AS REQUIRED TO MATCH EXISTING FINISHES.
- PROVIDE NEW SUPPORT(S) OR RE-SUPPORT AS REQUIRED ALL EXISTING CONDUIT, JUNCTION BOXES, CABLES, AND/OR OTHER ELECTRICAL ITEMS AS REQUIRED TO MEET THE SUPPORT REQUIREMENTS OF THE PRESENT PROJECT.
- PROVIDE NEW, OR REWORK EXISTING, FIRE STOPPING AT ALL THROUGH-PENETRATIONS OF CONDUIT OR OTHER ELECTRICAL ITEMS THAT WILL REMAIN AT THE CONCLUSION OF THE PROJECT. FIRE STOPPING PROVIDED FOR EXISTING ITEMS MUST MEET THE REQUIREMENTS OF THE PRESENT PROJECT.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING ALL PHASES OF CONSTRUCTION.
- CIRCUIT NUMBERING IN PARENTHESES ( ) ARE BASED ON PREVIOUS PROJECT DOCUMENTATION ARE PROVIDED IN GOOD FAITH AND ARE BELIEVED TO BE ACCURATE. CONTRACTOR IS TO VERIFY EXISTING CIRCUITING AND CONSULT ENGINEER IF SERIOUS DISCREPANCIES EXIST.

### GENERAL SYMBOLS

	PLAN OR DETAIL NUMBER SHEET NUMBER		COLUMN NUMBER OR LETTER
	ELEVATION LETTER SHOWN ON SHEET NUMBER		DRAWING REVISION NUMBER
	SECTION NUMBER		KEYED NOTE NUMBER
	SHOWN ON SHEET NUMBER		CONNECT TO EXISTING
	DIMENSION LINE		REMOVE TO THIS POINT
	DETAIL NUMBER WITH SHEET NO.		NORTH ARROW
	NEW WORK		EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED		

FACILITY IMPROVEMENTS FOR:

**NORTH CAROLINA JUDICIAL CENTER  
TOILET IMPROVEMENTS**  
901 CORPORATE CENTER DRIVE  
RALEIGH, NC

DWG BY: BME  
CHK BY: MJJ

DATE:  
07/28/2023

NO.	DATE	DESCRIPTION
0	7/28/2023	ISSUE FOR PERMIT
1	9/25/2023	ADDENDUM #2

ELECTRICAL DRAWING LIST	
NO.	TITLE
E001	STANDARDS, SYMBOLS & ABBREVIATIONS
E010	LOWER LEVEL BUILDING C FLOOR PLANS AND ENLARGED PLANS
E100	FIRST FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS
E101	FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS
E102	FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS
E103	FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS
E104	FIRST FLOOR WAREHOUSE FLOOR PLANS AND ENLARGED PLANS
E200	SECOND FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS
E201	SECOND FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS
E202	SECOND FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS

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Drawing scaled for 42x30 plots.

STANDARDS,  
SYMBOLS &  
ABBREVIATIONS

JOB CODE: 2023-02594  
DRAWING NUMBER

E001