

DRAFTING SYMBOLS AND MATERIALS LEGEND

DETAIL NUMBER	8
DRAWING NUMBER	A12.24
DETAIL NUMBER	23
DRAWING NUMBER	A7.19
DETAIL NUMBER	2
DRAWING NUMBER	6 A9.19 5
DETAIL NUMBER	1
DRAWING NUMBER	A6.05
COLUMN NO.	26
REFERENCE LINE NO.	26
LOCATION ELEVATION	1/1ST FL. 100'-0"
ROOM NUMBER	204
DOOR NO. NEW	203.2
DOOR NO. EXISTING	203.1X
NOMINAL THICKNESS	
CONSTRUCTION TYPE	MCM
SPECIAL CONDITION	
KEYNOTE IDENTIFICATION	7.531
WINDOW TYPE IDENTIFICATION	W
TOILET ACCESSORY IDENTIFICATION	A
SPOT ELEVATION	1/1ST FL. 100'-0"
	CONCRETE
	BRICK MASONRY IN PLAN
	CONCRETE MASONRY IN PLAN (RUNNING BOND)
	CONCRETE MASONRY IN PLAN (STACK BOND)
	STONE MASONRY IN PLAN
	RAKED JOINT IN PLAN CTRL./EXP. JOINT IN PLAN
	BRICK MASONRY IN SECTION DETAIL
	CONCRETE MASONRY IN SECTION DETAIL
	STONE MASONRY IN SECTION DETAIL
	STEEL IN SECTION DETAIL
	DISCONTINUOUS ROUGH WOOD BLOCKING IN SECTION
	CONTINUOUS ROUGH WOOD FRAMING/BLOCKING IN SECTION
	FINISHED WOOD IN SECTION DETAIL
	RIGID BOARD INSULATION
	RIGID BOARD INSULATION (ROOFINGS)
	BATT INSULATION
	GYPSUM BOARD
	ACOUSTICAL CEILING PANEL
	BITUMINOUS CONCRETE (ASPHALT) PAVING IN SECTION
	AGGREGATE BALLAST, FILL OR BACKFILL IN SECTION
	UNDISTURBED EARTH
	EARTH BACKFILL

A site map of the University of Illinois at Chicago campus. The map shows the outlines of various buildings. A specific building, labeled "BLDG 'K'", is highlighted in a dark gray color. It is located on the left side of the map, near the top. A north arrow is located in the bottom right corner of the map, pointing upwards.

ELECTRICAL ENGINEER'S
SEAL

LICENSED PROFESSIONAL ENGINEER
MICHAEL T. KLUBER
062-047325
STATE OF ILLINOIS

expires 11-30-2025

Michael T. Kluber
signature
AUGUST 12, 2025
date

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL AND GAS CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2020 NATIONAL ELECTRICAL CODE
LOCAL AMENDMENTS TO THE ABOVE CODES

2014 ILLINOIS PLUMBING CODE
2018 ILLINOIS ENERGY CONSERVATION CODE
(2018 INTERNATIONAL ENERGY CONSERVATION
CODE W/STATE AMENDMENTS)
2018 ILLINOIS ACCESSIBILITY CODE

BLACK BOX THEATRE AHU AND PIPE INSULATION

**JOLIET JUNIOR COLLEGE
1215 HOUBOLT ROAD
JOLIET, ILLINOIS 60431**

08/12/25	BID & PERMIT DOCUMENTS
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ISSUED

JOB NO.	24-292-1574
DRAWN	BWG
CHECKED	DDW
APPROVED	DDW

SHEET TITLE

**COVER SHEET,
GENERAL NOTES
SYMBOLS AND
DRAWING INDEX**

SHEET NUMBER

G100



KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

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- A black and white photograph of a building facade. A rectangular area on the upper part of the wall is marked with diagonal hatching. A curved arrow points from this hatched area to a callout box containing three numbers: 2.490, 4.201, and 7.249. Below the hatched area, there is a small, dark rectangular vent. At the bottom of the image, there are several windows; the one on the far left is partially open.

SOUTH ELEVATION DETAIL PHOTO **3**
SCALE: NONE

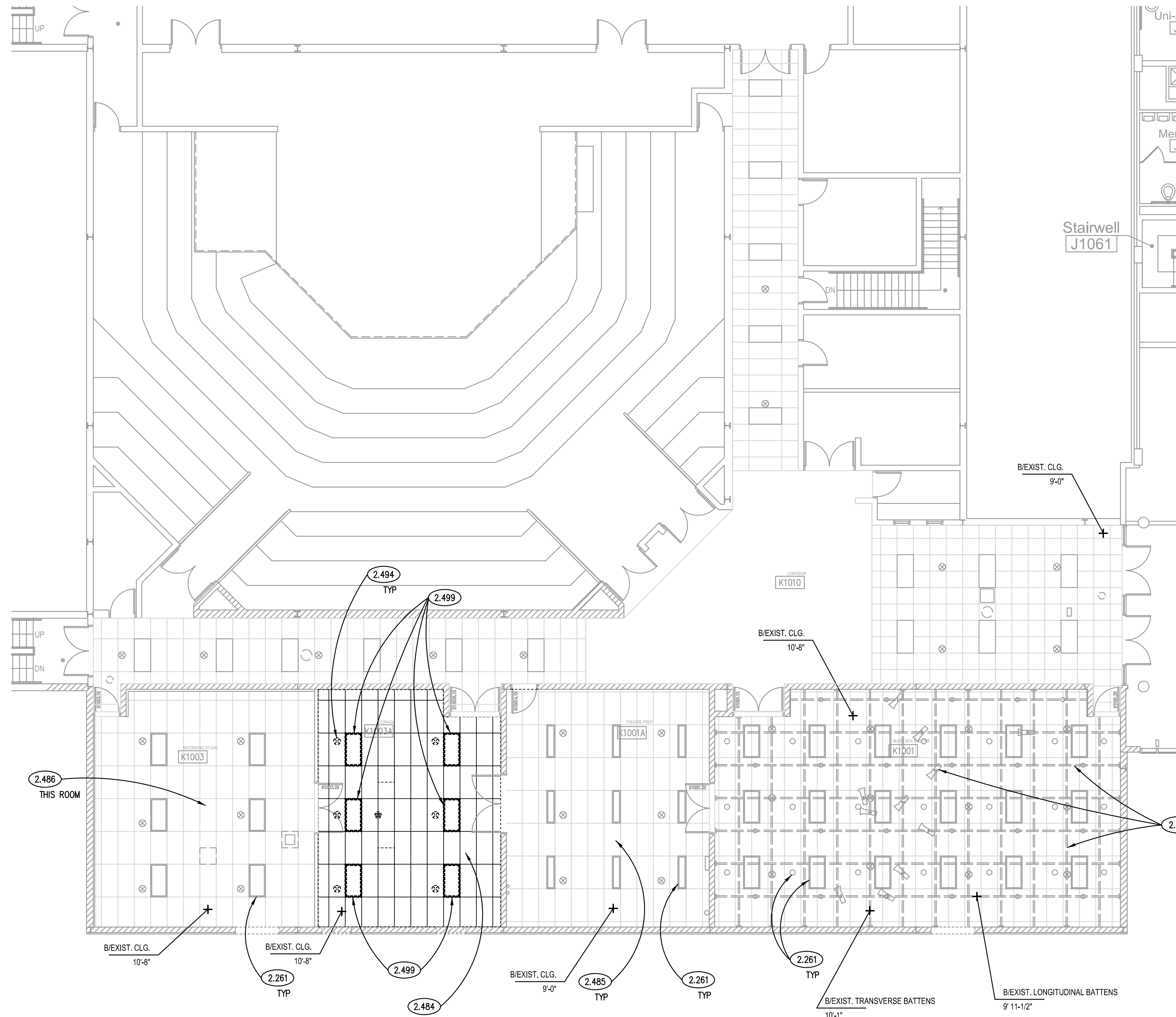
2. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
3. UNLESS NOTED OTHERWISE, WHERE EXISTING FLOOR, WALL AND CEILING SURFACES ARE SCHEDULED TO RECEIVE FINISHES, DEMOLISH EXISTING FINISH MATERIALS (EXCEPT PROPERLY ADHESIVE PAINT) AND SALVAGE SURFACE-MOUNTED ITEMS. PROPERLY PREPARE SURFACES TO RECEIVE NEW FINISHES. REINSTALL SURFACE-MOUNTED ITEMS AT NEW LOCATIONS DETERMINED BY OWNER UNLESS SPECIFIC LOCATIONS ARE INDICATED ON DRAWINGS.
4. STORE SALVAGED ITEMS AS DIRECTED BY OWNER.
5. PROTECT SALVAGED ITEMS FROM DAMAGE UNTIL INCORPORATED INTO THE WORK OR UNTIL MOVED TO OWNER'S PERMANENT STORAGE.
6. ADDITIONAL DEMOLITION/RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL AND STRUCTURAL ELEMENTS IS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT. COORDINATE WITH ARCHITECTURAL, MECHANICAL, FIRE PROTECTION AND ELECTRICAL DRAWINGS, AND PROVIDE DEMOLITION/RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL AND STRUCTURAL ELEMENTS AS REQUIRED TO COMPLETE THE WORK SHOWN ON THOSE DRAWINGS.
7. IN METAL STUD/GYPSUM BOARD PARTITIONS AND WALLS, PROVIDE 2X FIVE RETARDANT TREATED WOOD BLOCKING FOR WALL-MOUNTED ITEMS REQUIRING MECHANICAL ANCHORAGE.
8. ADDITIONAL DEMOLITION/RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL AND STRUCTURAL ELEMENTS IS REQUIRED TO COMPLETE THIS PROJECT. COORDINATE WITH ARCHITECTURAL, MECHANICAL, FIRE PROTECTION AND ELECTRICAL DRAWINGS, AND PROVIDE DEMOLITION/RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL AND STRUCTURAL ELEMENTS AS REQUIRED TO COMPLETE THE WORK SHOWN ON THOSE DRAWINGS.
9. EXISTING THIRD FLOOR DECK IS APPROXIMATELY 14'-4" ABOVE EXISTING SECOND FLOOR.

BLDG 'K'

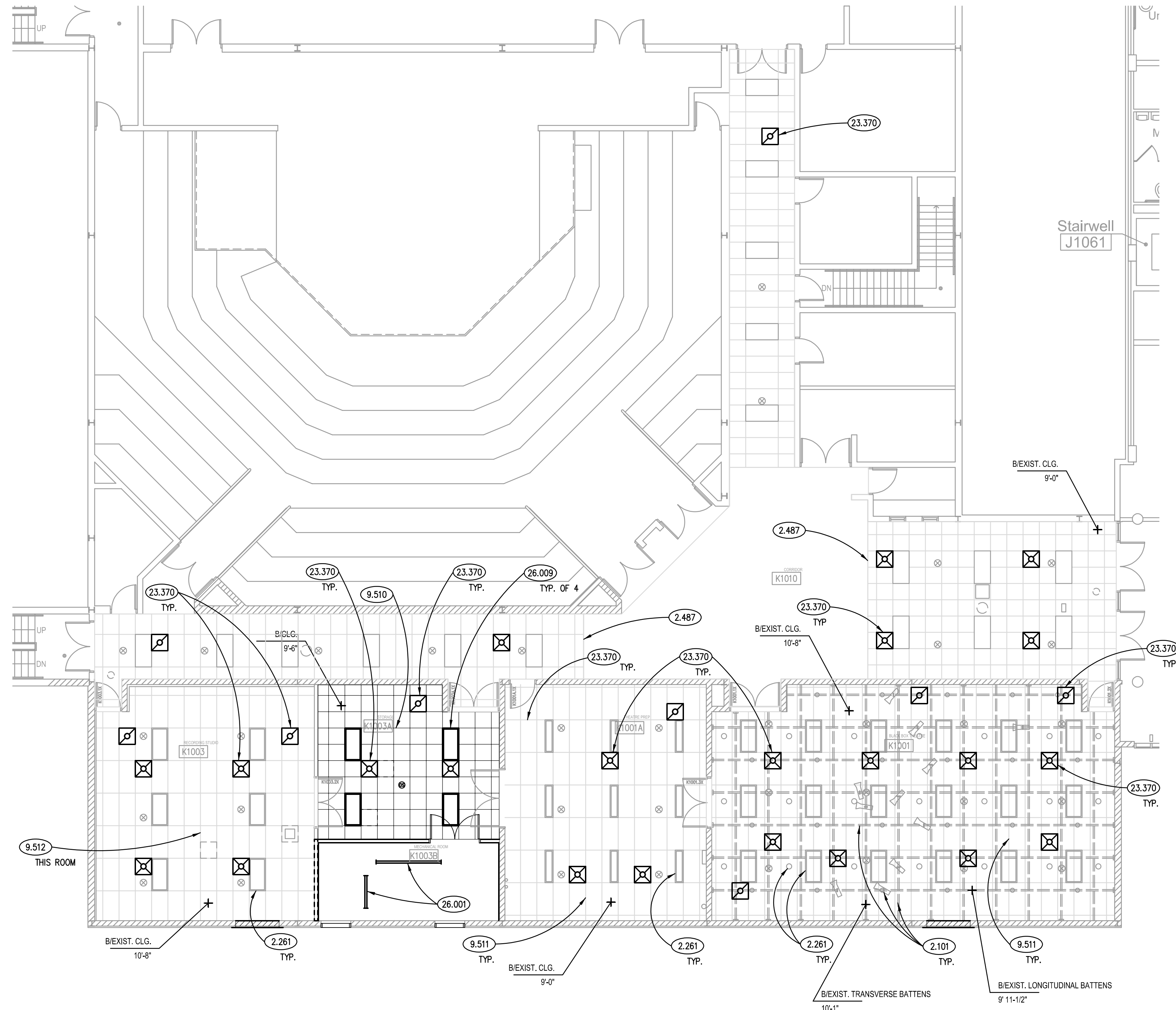
BLACK BOX THEATRE

NORTH

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

2

FIRST FLOOR NEW WORK REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

1

KEYNOTES

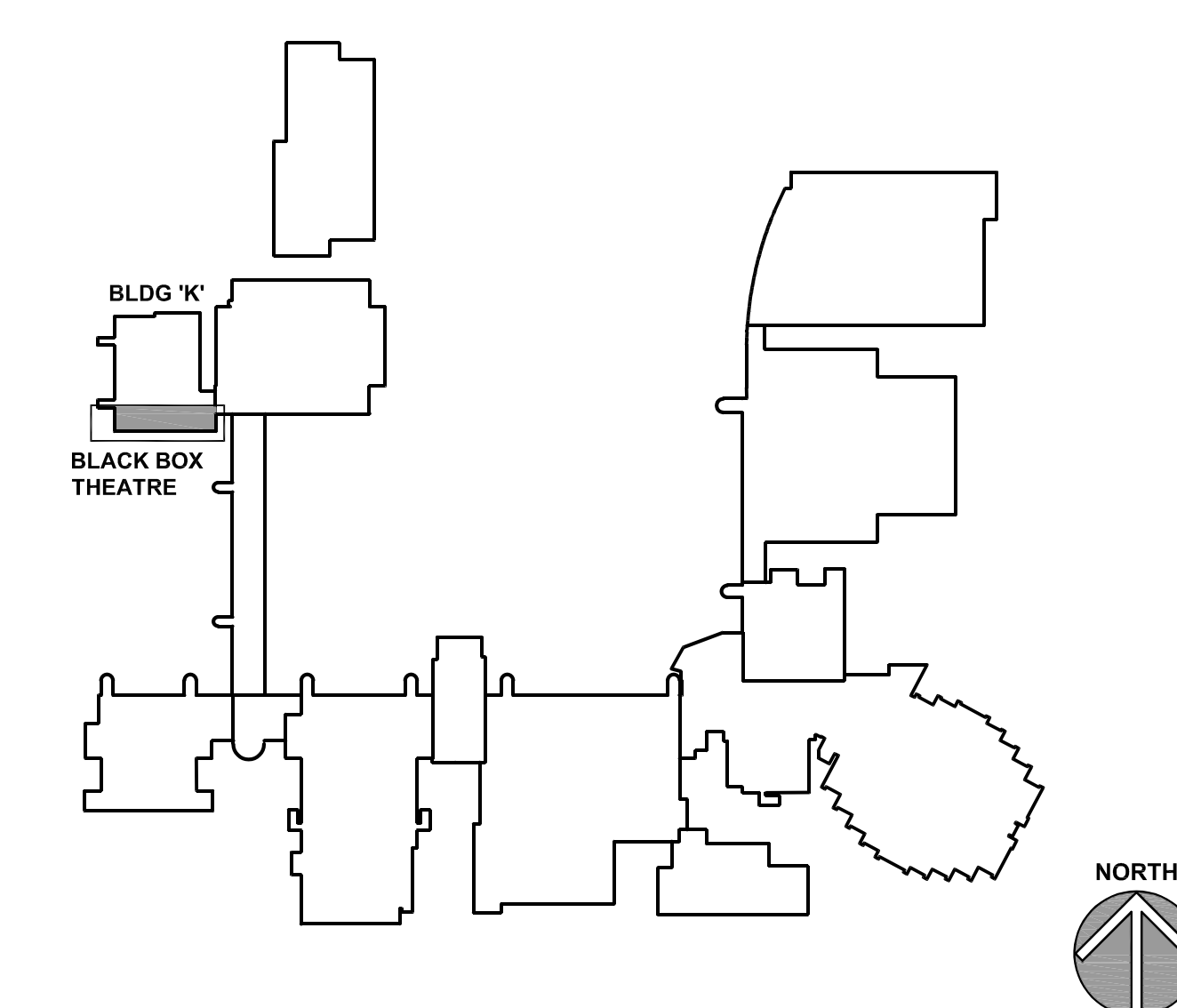
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- 2.101 PROTECT EXISTING INTERIOR SPECIALTY TO REMAIN: OVERHEAD PIPE GRID AND LIGHTING AND OTHER EQUIPMENT AND COMPONENTS MOUNTED THERETO.
- 2.261 PROTECT EXISTING LIGHT FIXTURE TO REMAIN; PROVIDE TEMPORARY SUPPORT AS REQUIRED TO PERMIT PERFORMANCE OF WORK DEPICTED ON MECHANICAL DRAWINGS; PERMANENTLY RE-SUPPORT FIXTURE INDEPENDENTLY FROM EXISTING CEILING AFTER COMPLETION OF MECHANICAL WORK.
- 2.484 REMOVE EXISTING INTERIOR CEILING FINISH: ACOUSTICAL PANELS AND SUSPENDED GRID.
- 2.485 TEMPORARILY REMOVE EXISTING INTERIOR CEILING FINISH: ACOUSTICAL PANELS AND GRID; AS REQUIRED TO PERFORM WORK DEPICTED ON MECHANICAL DRAWINGS; STORE AND PROTECT PANELS AND GRID COMPONENTS.
- 2.486 TEMPORARILY REMOVE EXISTING INTERIOR CEILING FINISH: ACOUSTICAL PANELS AND GRID; AS REQUIRED TO PERFORM WORK DEPICTED ON MECHANICAL AND ARCHITECTURAL DRAWINGS; STORE AND PROTECT PANELS AND GRID COMPONENTS.
- 2.487 ALTERNATE NO. 2 - TEMPORARILY REMOVE EXISTING INTERIOR CEILING FINISH: ACOUSTICAL PANELS AND GRID; AS REQUIRED TO PERFORM WORK DEPICTED ON MECHANICAL DRAWINGS; STORE AND PROTECT PANELS AND GRID COMPONENTS.
- 2.494 REMOVE EXISTING FIRE PROTECTION SYSTEM COMPONENT: SPRINKLER HEAD; REFER TO FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.499 TEMPORARILY REMOVE EXISTING LIGHT FIXTURE; PROTECT AND SAVE FOR RE-USE; REFER TO ARCHITECTURAL NEW WORK PLANS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 9.510 ACOUSTICAL CEILING PANELS AND GRID.
- 9.511 REINSTALL SALVAGED ACOUSTICAL PANELS AND GRID COMPONENTS AFTER COMPLETION OF MECHANICAL WORK; REPLACE PANELS AND GRID COMPONENTS DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS WITH NEW ELEMENTS MATCHING EXISTING.
- 9.512 REINSTALL SALVAGED ACOUSTICAL PANELS AND GRID COMPONENTS AFTER COMPLETION OF MECHANICAL AND ARCHITECTURAL WORK; REPLACE PANELS AND GRID COMPONENTS DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS WITH NEW ELEMENTS MATCHING EXISTING.
- 23.370 MECHANICAL DIFFUSER/GRILLE: REFER TO MECHANICAL DRAWINGS.
- 26.001 LIGHT FIXTURE: REFER TO ELECTRICAL DRAWINGS.
- 26.009 REINSTALL EXISTING LIGHT FIXTURE: REFER TO ELECTRICAL DRAWINGS.

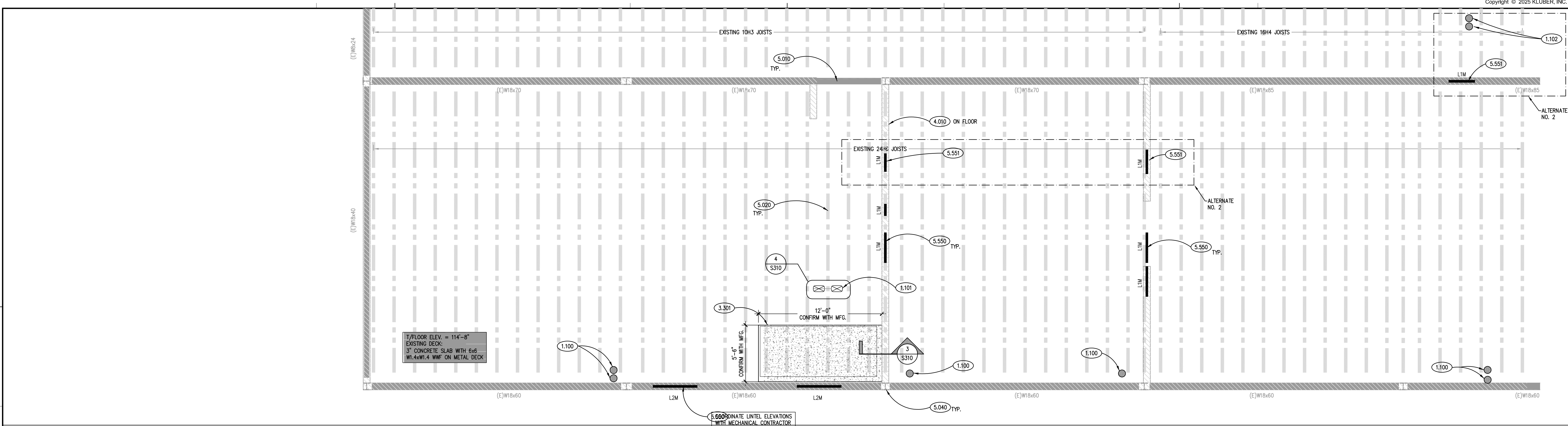
GENERAL NOTES

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- EXISTING THIRD FLOOR DECK IS APPROXIMATELY 14'-6" ABOVE EXISTING SECOND FLOOR.

KEY PLAN



ISSUED	
08/12/25	BD & PERMIT DOCUMENTS
JOB NO.	24-292-1574
DRAWN	CDH
CHECKED	CDH
APPROVED	CDH
SHEET TITLE	
SECOND FLOOR ARCHITECTURAL REFLECTED CEILING PLANS	
SHEET NUMBER	
A420	



SECOND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0" 1

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL, M.E.P., AND VENDOR PREPARED SHOP DRAWINGS AND EXISTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR WORKPOINTS.

2. HORIZONTAL RUNS OF CABLE, CONDUIT, PIPING OR ANY SUCH M.E.P. ITEMS ARE NOT TO BE PLACED WITHIN THE CROSS-SECTION OF THE SLABS/DECKS. ALL SUCH ITEMS ARE TO BE INSTALLED BELOW THE SLAB/DECK WITH INDUSTRY STANDARD, ENGINEERED APPROVED SYSTEMS. THE CONTRACTOR DURING HIS BID SHALL ASSUME THAT HE NEEDS TO PROVIDE AND ENGINEER ALL SUPPLEMENTAL FRAMING ELEMENTS TO SPAN TO THE STRUCTURAL ELEMENTS THEREBY BY-PASSING THE SLABS/DECKS. ALL SUCH SYSTEMS ARE SUBJECT TO THE REVIEW OF ENGINEER OF RECORD. SEE REQUIREMENTS FOR HANGING COMPONENTS DIRECTLY FROM ROOF DECKS ON SHEET S320.

3. ALL ARCHITECTURAL AND M.E.P. EQUIPMENT EITHER HUNG OR BEARING UPON FRAMING FOLLOWING INDUSTRY STANDARD, ENGINEERED APPROVED SYSTEMS. THE INDIVIDUAL TRADE CONTRACTOR IS TO PROVIDE ALL SUPPLEMENTAL FRAMING AS REQUIRED TO PROPERLY SUPPORT TO THE MAIN STRUCTURAL ELEMENTS.

4. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.

5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINISHES (I.E. FLOOR, WALL, CEILING, ETC.)

6. DO NOT CUT THROUGH MASONRY BOND BEAMS OR ANY OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL DUCTWORK, PIPING, CONDUITS OR OTHER WORK. COORDINATE WITH THE STRUCTURAL DRAWINGS AND MASON CONTRACTOR FOR ALL BOND BEAM AND STRUCTURAL ELEMENT LOCATIONS. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETROFIT REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY AND INTEGRITY OF THE DAMAGED ELEMENTS.

7. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL CONTRACT DRAWINGS, VENDOR DRAWINGS AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES FOR LOCATIONS OF SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

8. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH GUYING/BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY TAGGED OR SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL OF THE ENGINEER.

10. TRADE CONTRACTORS TO COORDINATE WITH M.E.P. DRAWINGS FOR ALL REQUIRED PIPE SLEEVES, HANGERS, CAST-IN / RECESSED COMPONENTS AND INSERTS FOR M.E.P. EQUIPMENT AT SLABS AND WALLS.

STEEL FRAMING NOTES

S1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITIONS OF AISC'S "STEEL CONSTRUCTION MANUAL" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".

S2. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS.

S3. THE STEEL FABRICATOR AND ERECTOR ARE TO DEVELOP AND IMPLEMENT A QUALITY CONTROL PROGRAM AS SPECIFIED IN AISC 360-10, CHAPTER N. THE STEEL FABRICATOR AND ERECTOR ARE TO PERFORM QUALITY CONTROL INSPECTIONS OF THE STEEL AT THE FABRICATION PLANT AND AT THE PROJECT SITE. REFER TO AISC 360-10, TABLES N5.4-1, N5.4-2, N5.4-3, N5.6-1, N5.6-2, N5.6-3 AND N6.1 FOR MINIMUM INSPECTION REQUIREMENTS.

S4. STRUCTURAL STEEL ERECTION TO COMPLY WITH OSHA REQUIREMENTS.

S5. STEEL PROPERTIES:

A. ANGLES, PLATES = A36 (Fy = 36 KSI)
B. WELDING ELECTRODES = E70XX

S6. FINISH REQUIREMENTS:

A. TYPICAL CLEANING = SSPC-SP2 OR SSPC-SP3
B. PAINT = FABRICATOR'S STANDARD. SEE SPECIFICATIONS FOR ADDITIONAL PAINTING REQUIREMENTS.

S7. PENETRATIONS THROUGH THE FRAMING REQUIRE SUPPLEMENTAL FRAMING AS DETAILED ON SHEET S320. CONTRACTOR TO COORDINATE SIZE, LOCATIONS AND QUANTITIES WITH THE FULL SET OF DOCUMENTS AVAILABLE AT THE TIME OF BIDDING.

S8. REQUIREMENTS FOR HANGING ARCH. AND M.E.P. COMPONENTS FROM METAL ROOF DECK:

A. PIPING THAT WILL CONTAIN LIQUIDS (INCLUDES STORM PIPING) IS NOT PERMITTED TO BE HUNG FROM METAL ROOF DECK.
B. MAXIMUM PERMITTED LOAD AT EACH HANGER = 30 LBS.
C. SPACING OF HANGERS TO BE A MINIMUM OF 2'-0" O.C. IN ALL DIRECTIONS.
D. ALL EQUIPMENT, UNITS, ETC. IS NOT PERMITTED TO BE HUNG FROM METAL ROOF DECK.
E. M.E.P. AND ARCHITECTURAL COMPONENTS WHICH DO NOT ADHERE TO THE REQUIREMENTS LISTED ABOVE ARE NOT PERMITTED TO BE HUNG FROM THE METAL ROOF DECK. CONTRACTOR IS TO PROVIDE SUPPLEMENTAL FRAMING SYSTEM (ENGINEERED BY OTHERS) WHICH IS TO SPAN BETWEEN AND CONNECT TO STRUCTURAL ROOF FRAMING MEMBERS.

S9. ANY JOIST BRIDGING THAT IS REMOVED TO FACILITATE THE INSTALLATION OF M.E.P. ITEMS SHALL BE REPLACED BY THE TRADE CONTRACTOR WHICH REMOVED THE BRIDGING.

S10 CONTRACTOR SHALL NOT CUT OR MODIFY ANY PORTION OF THE JOIST IN FIELD WITHOUT THE WRITTEN APPROVAL FROM THE JOIST MANUFACTURER AND THE ENGINEER OF RECORD. THIS INCLUDES BUT NOT LIMITED TO WEB MEMBERS, CHORD MEMBERS, JOIST SEATS, ETC.

CODE AND LOADING

A. DESIGN REQUIREMENTS AND STRUCTURAL LOADS ARE TO BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE AND ANY CITY/VILLAGE AMENDMENTS.

B. LOADING CRITERIA:

1. OCCUPANCY GROUP: B

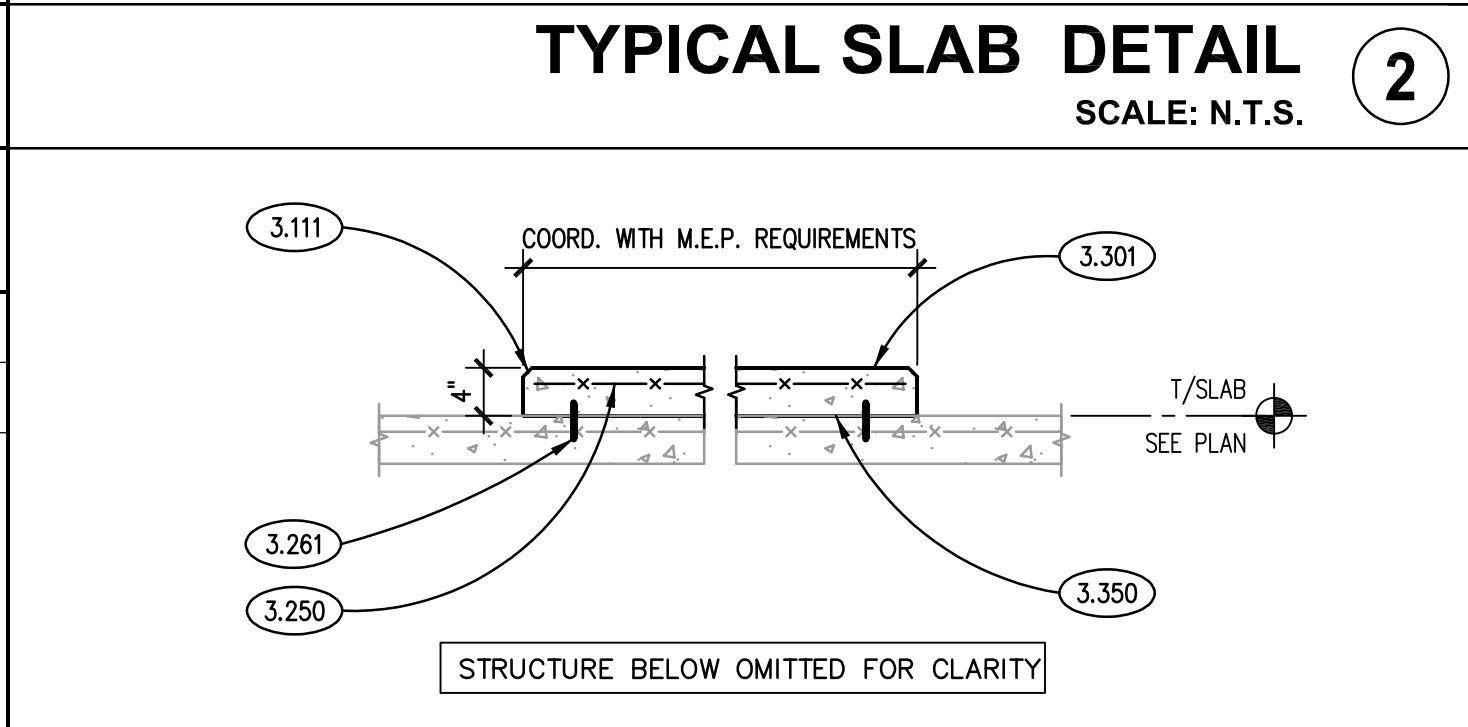
C. OCCUPANCY CATEGORY: IIB

2. FLOOR LIVE LOADS: (NOT IMPACTED BY PROPOSED RENOVATIONS)
a. SECOND FLOOR (MECHANICAL ROOM) = 40 PSF

5. STRUCTURALLY SUPPORTED EQUIPMENT:
a. AHU-1 = 2250 LBS

SLAB SCHEDULE						
MARK	THICK (t)	CONCRETE STRENGTH (f'c)	CONCRETE TYPE (NW or LW)	REINFORCING STEEL	GENERAL LOCATIONS	MVRA
SLAB S1	4"	4,000 PSI	NW	WWF-6x6 W2.1xW2.1	HOUSEKEEPING PAD	NO
NOTES: 1. SEE PROJECT SPECIFICATIONS FOR DETAILED MIX DESIGNS. 6. ALL WWF REINFORCING TO BE IN FLAT SHEETS ONLY. PLACEMENT (I.E. SUPPORT SPACING, LAP SPICE LENGTHS, ETC.) TO BE IN ACCORDANCE WITH THE STRUCTURAL WELDED WIRE REINFORCEMENT MANUAL OF STANDARD PRACTICE: (WWR-600); WIRE REINFORCEMENT INSTITUTE: LATEST EDITION. 7. ALL REINFORCING STEEL TO BE SUPPORTED AS REQUIRED TO MAINTAIN THE DETAILED POSITIONS NOTED ON THE CONTRACT DOCUMENTS DURING PLACEMENT OF THE CONCRETE. 8. REINFORCING BARS SHALL BE ASTM A615 GRADE 60, DEFORMED. ALL WWF SHALL BE ASTM A185, SMOOTH. 9. NORMAL WEIGHT CONCRETE (NW) SHALL HAVE A MAXIMUM DENSITY OF 145 PCF.						

LINTEL SCHEDULE						
MARK	ELEMENT SIZE	5/16" PLATE		LINTEL TYPE	END BEARING	SPECIAL COMMENTS
		WIDTH	DETAIL			
L1	L1M	(2)-L3 1/2x3 1/2x5/16	N.A.	N.A.	4"	PAINTED
L2	L2M	(2)-L3 1/2x3 1/2x5/16	N.A.	N.A.	4"	GALVANIZED
NOTES: 1. SEE PLAN FOR LINTEL LOCATIONS. LINTELS WITH "M" DENOTES LINTEL REQUIRED FOR M.E.P. ITEMS. M.E.P. CONTRACTORS TO PROVIDE M.O. TO STEEL CONTRACTOR. 2. MATERIAL PROPERTIES: a. ANGLES=ASTM A36 d. EXTERIOR-PRIME PAINTED f. WELDING ELECTRODES=E70xx 3. BEARING CONDITIONS: a. SEE TYPICAL DETAILS BELOW. b. ELEMENTS ADJACENT TO STRUCTURAL MEMBERS (BEAMS, COLUMNS, LINTELS, ETC.) ARE TO CONNECT DIRECTLY TO THESE MEMBERS. 4. SEE MINIMUM LINTEL SIZE TABLE BELOW FOR ANY WALL OPENING/RECESS NOT SPECIFICALLY NOTED ON PLAN. ALL PENETRATIONS RESULTING FROM ARCHITECTURAL, M.E.P. AND TRADE DRAWINGS REQUIRE A LINTEL. COORDINATE ALL REQUIREMENTS WITH THE FULL SET OF DOCUMENTS. FOR WALL THICKNESS GREATER THAN TABULATED, COMBINE LINTELS AS REQUIRED TO OBTAIN DESIRED WALL THICKNESS. FOR EXAMPLE, 16" WALL REQUIRES (2) LINTELS FROM THE 8" WALL SCHEDULE.						



KEYNOTES

1.100 CONTRACTOR TO INFILL FLOOR PENETRATIONS WITH CONCRETE AFTER DEMOLITION OF EXISTING PIPING; REFER TO MECHANICAL FOR LOCATIONS. APPLY 14GA PLATE TO UNDERSIDE OF DECK; OVERSIZE PLATE TO COVER ENTIRE PENETRATION; UTILIZE CONCRETE SCREWS AROUND EDGES TO HOLD IN PLACE FOLLOWING MINIMUM EDGE DISTANCES AS REQUIRED AND FILL PENETRATION WITH CONCRETE FROM ABOVE.

1.101 CONTRACTOR TO SANICUT AND REMOVE PORTION OF EXISTING CONCRETE WALL AS REQUIRED TO INSTALL NEW WORK. SEE TYPICAL DETAIL ON DRAWINGS. ROUNDED CORERS SHALL BE USED AT CORNERS TO CREATE SMOOTH TRANSITION; OVERCUTTING AT CORNERS IS NOT PERMITTED.

1.102 ALTERNATE NO. 2 - CONTRACTOR TO INFILL FLOOR PENETRATIONS WITH CONCRETE AFTER DEMOLITION OF EXISTING PIPING; REFER TO MECHANICAL FOR EXACT LOCATIONS. APPLY 14GA PLATE TO UNDERSIDE OF DECK; OVERSIZE PLATE TO COVER ENTIRE PENETRATION; UTILIZE CONCRETE SCREWS AROUND EDGES TO HOLD IN PLACE FOLLOWING MINIMUM EDGE DISTANCES AS REQUIRED AND FILL PENETRATION WITH CONCRETE FROM ABOVE.

3.111 CONCRETE FORMING AND ACCESSORIES: CONTINUOUS 3/4" CHAMFER U.N.O.

3.250 CONCRETE REINFORCING: WWF REFER TO SLAB CALLOUT ON PLAN. PROVIDE WWF-6X6 W2.1 X W2.1 IN FLAT SHEETS U.N.O. PROVIDE PROPER SUPPORT AS REQUIRED TO MAINTAIN PLACEMENT AT NOTED ELEVATION. "PULL UP" METHOD DURING SLAB PLACEMENT NOT ACCEPTABLE. DISCONTINUE AT CONTRACTION AND CONSTRUCTION JOINTS.

3.260 CONCRETE REINFORCING: REINFORCING STEEL SUPPORT ELEMENT.

3.261 CONCRETE REINFORCING: #4 DOWEL X 0'-4" @ 2'-0" O.C. U.N.O. ANCHOR INTO EXISTING SLAB USING H.L.T. HY-150 INJECTION ADHESIVE. EMBEDMENT TO BE 2" U.N.O.

3.300 CAST-IN-PLACE CONCRETE: INTERIOR SLAB-ON-GRADE. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.

3.301 CAST-IN-PLACE CONCRETE: EQUIPMENT PAD. REFER TO SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH. COORDINATE SIZE, LOCATION AND QUANTITY WITH M.E.P. DRAWINGS AND MANUFACTURER REQUIREMENTS. REFER TO TYPICAL DETAIL ON CONTRACT DOCUMENTS.

3.350 CAST-IN-PLACE CONCRETE: ACCESSORY: BONDING AGENT. ROUGHEN BASE SLAB AS REQUIRED.

4.010 EXISTING MASONRY WALL.

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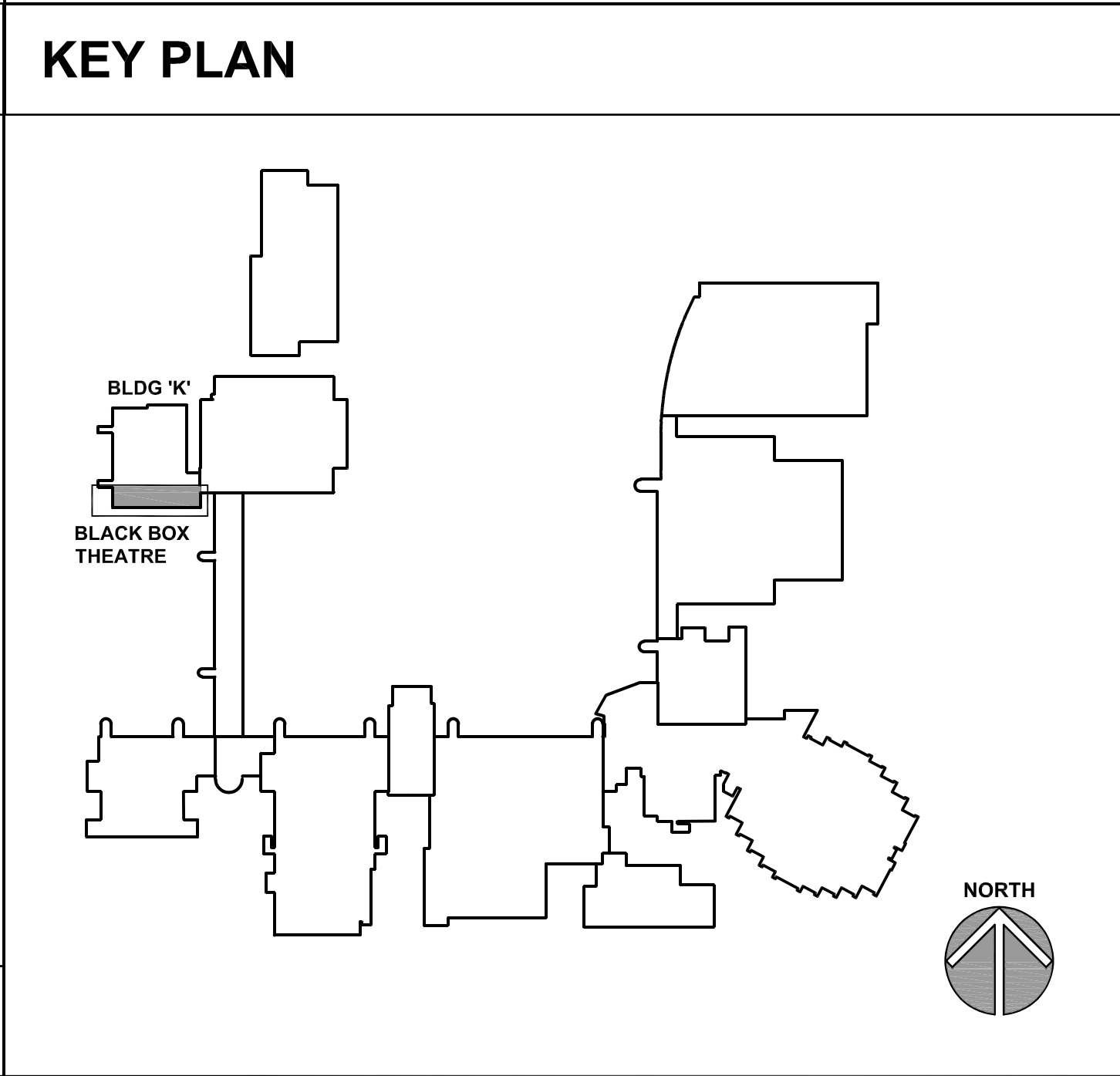
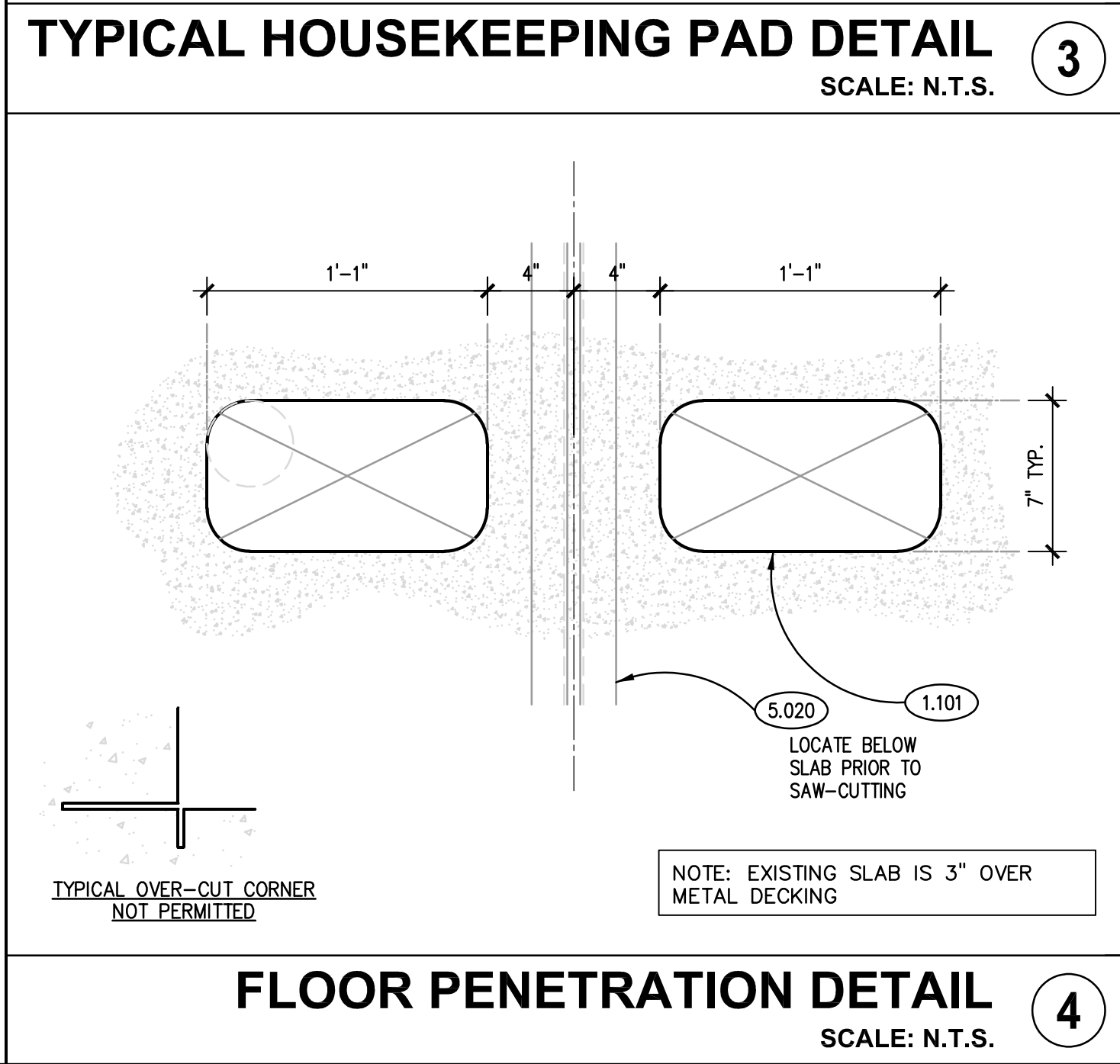
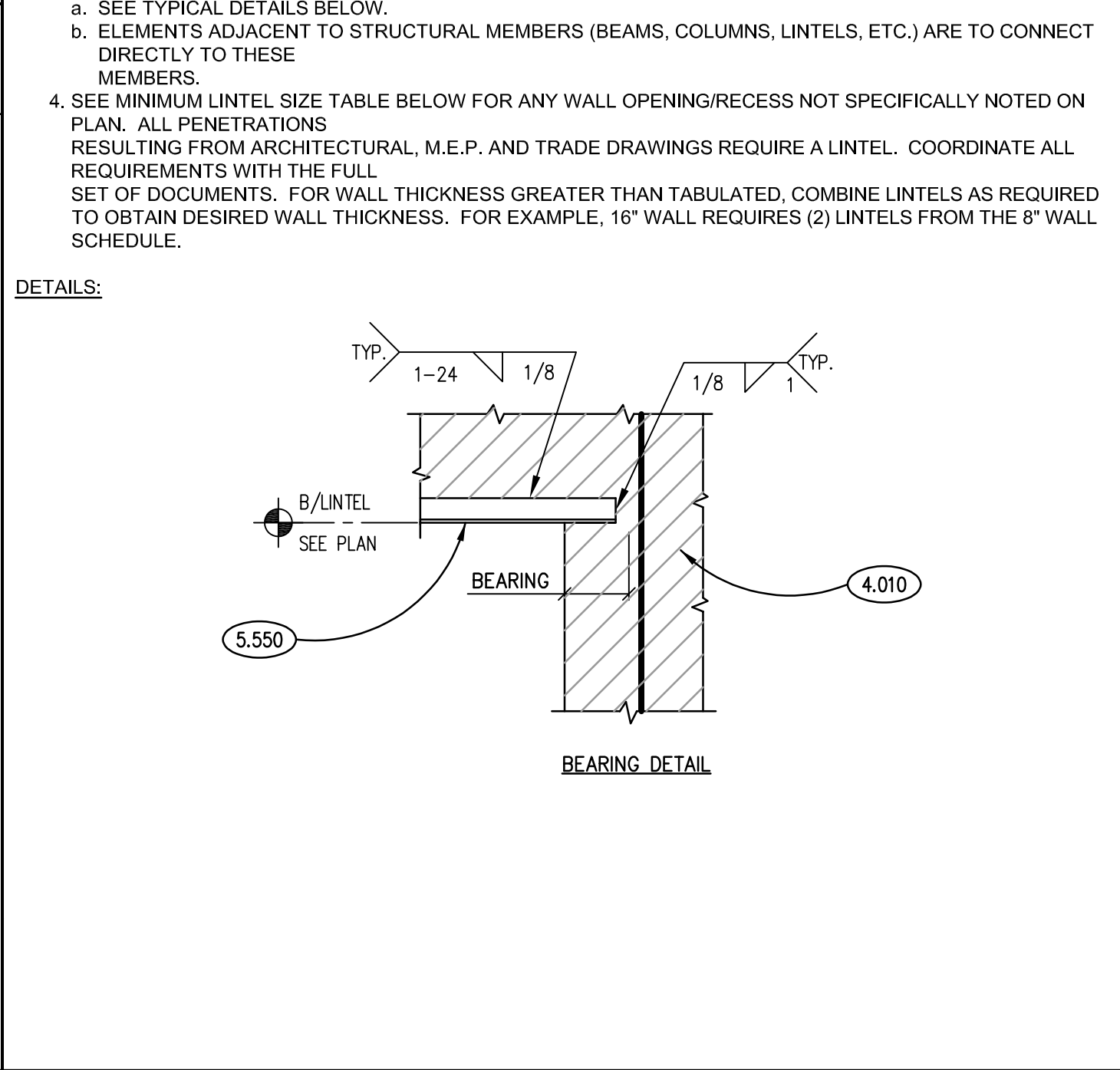
5.010 METAL FABRICATION: EXISTING STEEL BEAM.

5.020 METAL FABRICATION: EXISTING STEEL JOIST.

5.040 METAL FABRICATION: EXISTING STEEL COLUMN.

5.550 METAL FABRICATION: STEEL LINTEL. REFER TO PLANS, SCHEDULES AND DETAILS.

5.551 ALTERNATE NO. 2 - METAL FABRICATION: STEEL LINTEL. REFER TO PLANS, SCHEDULES AND DETAILS.



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APPROVED	JMB

SHEET TITLE

SECOND FLOOR FRAMING PLAN

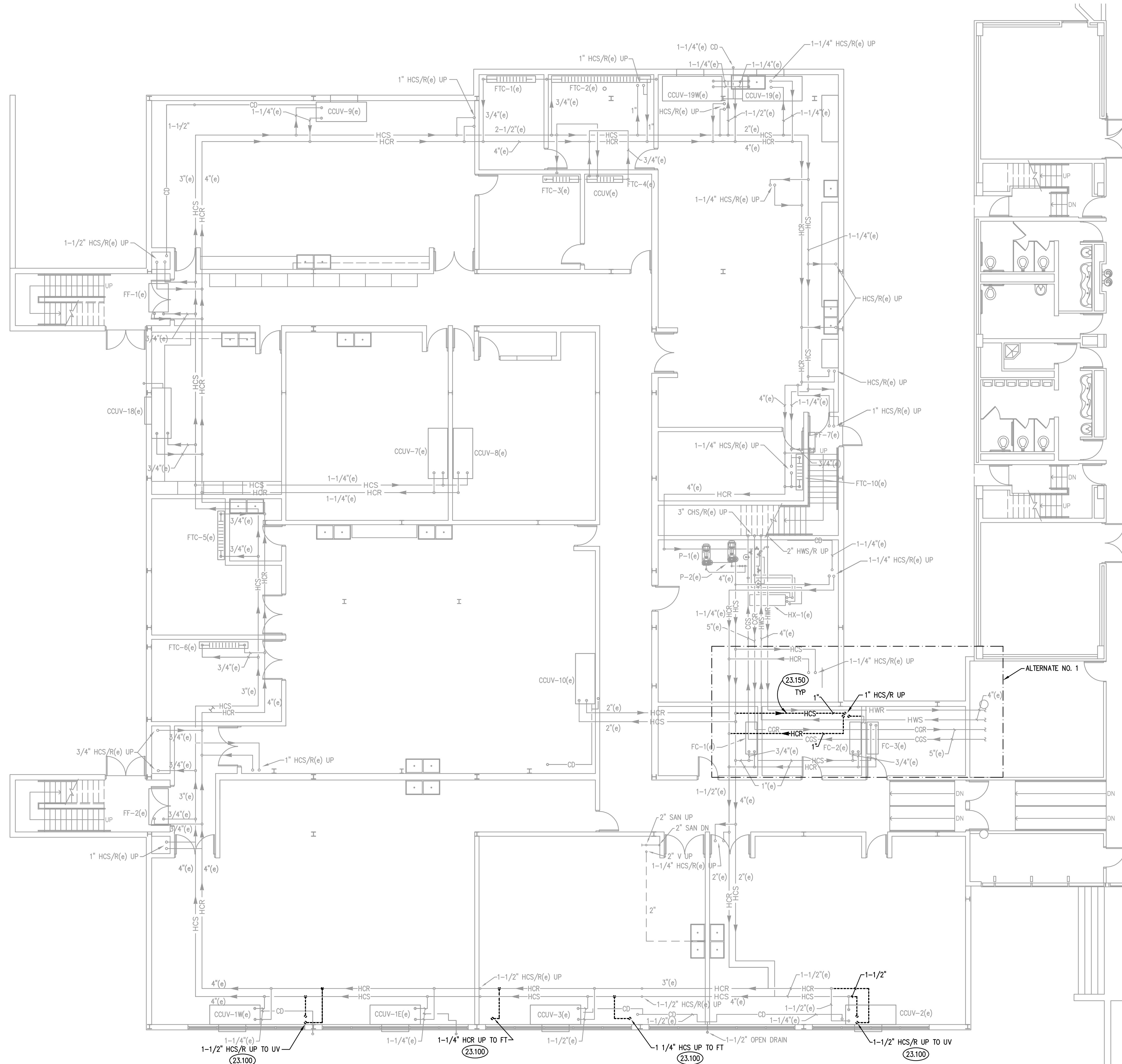
SHEET NUMBER

S310

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 23.100 REMOVE HCS/HCR & CONDENSATE PIPING FOR REMOVED EQUIPMENT ON FLOOR ABOVE. REMOVE PIPING BACK TO MAIN AS SHOWN. PROVIDE PERMANENT AND INSULATED CAP ON PIPE. REFER TO STRUCTURAL DRAWINGS FOR PATCHING OF FLOOR OPENINGS.
- 23.150 ALTERNATE NO. 1 - REMOVE HCS/HCR & CONDENSATE PIPING FOR REMOVED EQUIPMENT ON FLOOR ABOVE. REMOVE PIPING BACK TO MAIN AS SHOWN. PROVIDE PERMANENT AND INSULATED CAP ON PIPE. REFER TO STRUCTURAL DRAWINGS FOR PATCHING OF FLOOR OPENINGS.

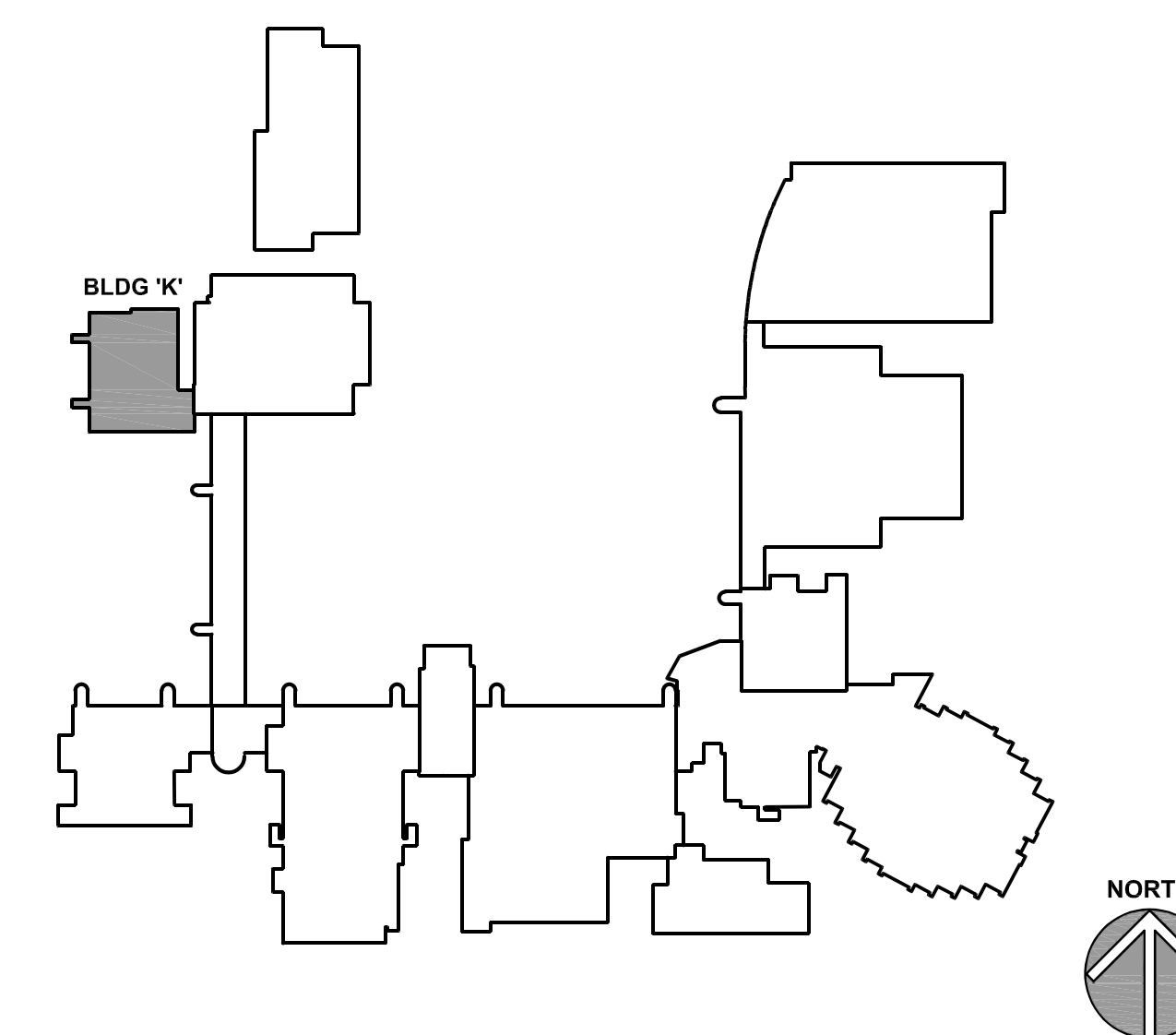


GROUND FLOOR MECHANICAL DEMOLITION PLAN

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

1

KEY PLAN



GENERAL NOTES

- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
- FIELD VERIFY EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS FOR EXACT LOCATIONS, QUANTITY AND SIZES.
- TEMPORARILY REMOVE EXISTING ACOUSTICAL CEILING PANELS AND GRID ELEMENTS AS NECESSARY TO PERMIT PERFORMANCE OF THE MECHANICAL WORK DEPICTED. STORE AND PROTECT TEMPORARILY-REMOVED ITEMS UNTIL PROJECT IS READY FOR REINSTALLATION. REINSTALL SALVAGED PANELS AND GRID ELEMENTS ONCE MECHANICAL WORK IS COMPLETE. PROVIDE NEW PANELS AND GRID ELEMENTS MATCHING EXISTING TO REPLACE PANELS OR GRID ELEMENTS DAMAGED DURING SALVAGE, DEMOLITION OR CONSTRUCTION OPERATIONS.
- PROVIDE TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND MARKED ACCORDINGLY. PROVIDE TAPES AND MASTICS COMPLIANT WITH UL 181B AND MARKED ACCORDINGLY TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS.
- PROVIDE THERMOSTATIC CONTROLS OF EQUIPMENT HAVING A 5' F DEADBAND.
- GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED. CONFIGURE CONDENSATE DRAINS WITH FITTINGS AND/OR UNIONS TO PERMIT CLEARING OF BLOCKAGES AND PERFORMANCE OF MAINTENANCE WITHOUT CUTTING OF THE LINES.
- SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- DO NOT CUT THROUGH THE STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR DUCTWORK, PIPING, CONDUITS OR OTHER WORK. COORDINATE WITH STRUCTURAL DRAWINGS AND MASON CONTRACTOR FOR BOND BEAM AND STRUCTURAL ELEMENT LOCATIONS. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.

BLACK BOX THEATRE AHU AND PIPE INSULATION

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Kluber
Architects + Engineers

ISSUED
09/2/25 BID & PERMIT DOCUMENTS

JOB NO. 24-292-1574
DRAWN BWG
CHECKED DDW
APPROVED BWG

SHEET TITLE

GROUND FLOOR
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER

M210



2. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
3. PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISERS. PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
4. FIELD VERIFY EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS FOR EXACT LOCATIONS, QUANTITY AND SIZES.
5. TEMPORARILY REMOVE EXISTING ACoustICAL CEILING PANELS AND GRD ELEMENTS AS NECESSARY TO PERMIT PERFORMANCE OF THE MECHANICAL WORK DEPICTED. STORE AND PROTECT TEMPORARILY-REMOVED ITEMS UNTIL PROJECT IS READY FOR REINSTALLATION. REINSTATE SAVED PANELS AND GRD ELEMENTS ONCE MECHANICAL WORK IS COMPLETE. REPAIR OR REPLACE DAMAGED PANELS AND GRD ELEMENTS TO REPLACE PANELS OR GRD ELEMENTS DAMAGED DURING SALVAGE, DEMOLITION OR CONSTRUCTION OPERATIONS.
6. PROVIDE TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND MARKED ACCORDINGLY. PROVIDE TAPES AND MASTICS COMPLIANT WITH UL 181B AND MARKED ACCORDINGLY TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS.
7. PROVIDE THERMOSTATIC CONTROLS OF EQUIPMENT HAVING A 5° F DEADBAND.
8. GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED. CONFIGURE CONDENSATE DRAINS WITH FITTINGS AND/OR UNIONS TO PERMIT CLEARING OF BLOCKAGES AND PERFORMANCE OF MAINTENANCE WITHOUT CUTTING OF THE LINES.
9. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE BEST NAMED MANUFACTURER. THE BEST NAMED MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
10. DO NOT CUT THROUGH THE STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR DUCTWORK, PIPING CONDUTITS OR OTHER WORK. COORDINATE WITH STRUCTURAL DRAWINGS AND MASON CONTRACTOR FOR BOND BEAM AND STRUCTURAL ELEMENT LOCATIONS. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND ANY SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.

KEYNOTES

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23.102 REMOVE UNIT VENTILATOR AND ASSOCIATED WALL LOUVER. REMOVE HCS/HOR AND CONDENSATE PIPING BACK TO MAIN. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF WALL AND STRUCTURAL DRAWINGS FOR PATCHING OF FLOOR OPENINGS.

23.103 REMOVE FIN TUBE AND ASSOCIATED PIPING & SPECIALTIES BACK TO MAIN. REFER TO STRUCTURAL DRAWINGS FOR PATCHING OF FLOOR OPENINGS.

23.104 REMOVE THERMOSTAT AND ALL ASSOCIATED CONTROL WIRING FOR UNIT VENTILATOR BEING REMOVED. REMOVE ALL CONTROL SEQUENCES AND GRAPHICS FROM EXISTING BUILDING AUTOMATION SYSTEM.

23.105 REMOVE PNEUMATIC THERMOSTAT FOR FIN TUBE. REMOVE ALL ASSOCIATED PNEUMATIC TUBING BACK TO NEXT ACTIVE MAIN AND CAP.

23.151 ALTERNATE NO. 1 - REMOVE UNIT VENTILATOR. REMOVE HCS/HOR AND CONDENSATE PIPING BACK TO MAIN. REFER TO STRUCTURAL DRAWINGS FOR PATCHING OF FLOOR OPENINGS.

23.152 ALTERNATE NO. 1 - REMOVE THERMOSTAT AND ALL ASSOCIATED CONTROL WIRING FOR UNIT VENTILATOR BEING REMOVED. REMOVE ALL CONTROL SEQUENCES AND GRAPHICS FROM EXISTING BUILDING AUTOMATION SYSTEM.

26.203 ALTERNATE NO. 1 - DEMOLISH ELECTRICAL CONNECTION FOR FAN COIL UNIT BEING REMOVED.

A simplified map of the Black Box Theatre area, showing the building footprint and the location of the Black Box Theatre. The map includes labels for 'BLDG 'K'' and 'BLACK BOX THEATRE'.

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

23.200 PROVIDE NEW CONNECTION TO EXISTING HOT WATER AND CHILLED WATER PIPING AS SHOWN. PROVIDE ISOLATION VALVE AT EACH TAKE-OFF.

23.201 EXISTING CHILLED WATER SYSTEM CONTAINS 30% ETHYLENE GLYCOL. PROVIDE SUFFICIENT GLYCOL FOR NEW CHILLED WATER PIPING. COORDINATE WITH OWNER FOR FILLING SYSTEM.

2. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
3. PIPING, DUCTWORK AND RACEWAYS ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISERS. PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK, ETC.
4. FIELD VERIFY EXISTING PIPING, DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS FOR EXACT LOCATIONS, QUANTITY AND SIZES.
5. TEMPORARILY REMOVE EXISTING ACoustICAL CEILING PANELS AND GRID ELEMENTS AS NECESSARY TO PERMIT PERFORMANCE OF THE MECHANICAL WORK DEPICTED. STORE AND PROTECT TEMPORARILY-REMOVED ITEMS UNTIL PROJECT IS READY FOR REINSTALLATION. RENEWAL SALVAGED PANELS AND GRID ELEMENTS ONCE MECHANICAL WORK IS COMPLETE. REPAIR, REFINISH AND REINSTALL PANELS AND GRID ELEMENTS TO REPLACE PANELS OR GRID ELEMENTS DAMAGED DURING SALVAGE, DEMOLITION OR CONSTRUCTION OPERATIONS.
6. PROVIDE TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND MARKED ACCORDINGLY. PROVIDE TAPES AND MASTICS COMPLIANT WITH UL 181B AND MARKED ACCORDINGLY TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS.
7. PROVIDE THERMOSTATIC CONTROLS OF EQUIPMENT HAVING A 5° F DEADBAND.
8. GENERALLY, SMALL DIAMETER PIPE RUNS FROM RISERS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED. CONFIGURE CONDENSATE DRAINS WITH FITTINGS AND/OR UNIONS TO PERMIT CLEARING OF BLOCKAGES AND PERFORMANCE OF MAINTENANCE WITHOUT CUTTING OF THE LINES.
9. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
10. DO NOT CUT THROUGH THE STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR DUCTWORK, PIPING, CONDUTS OR OTHER WORK. COORDINATE WITH STRUCTURAL DRAWINGS AND MASON CONTRACTOR FOR BOND BEAM AND STRUCTURAL ELEMENT LOCATIONS. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO RENSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.



1

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

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES

08/12/25	BID & PERMIT DOCUMENTS
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OB NO.	24-292-1574
DRAWN	BWG
CHECKED	DDW
APPROVED	BWG

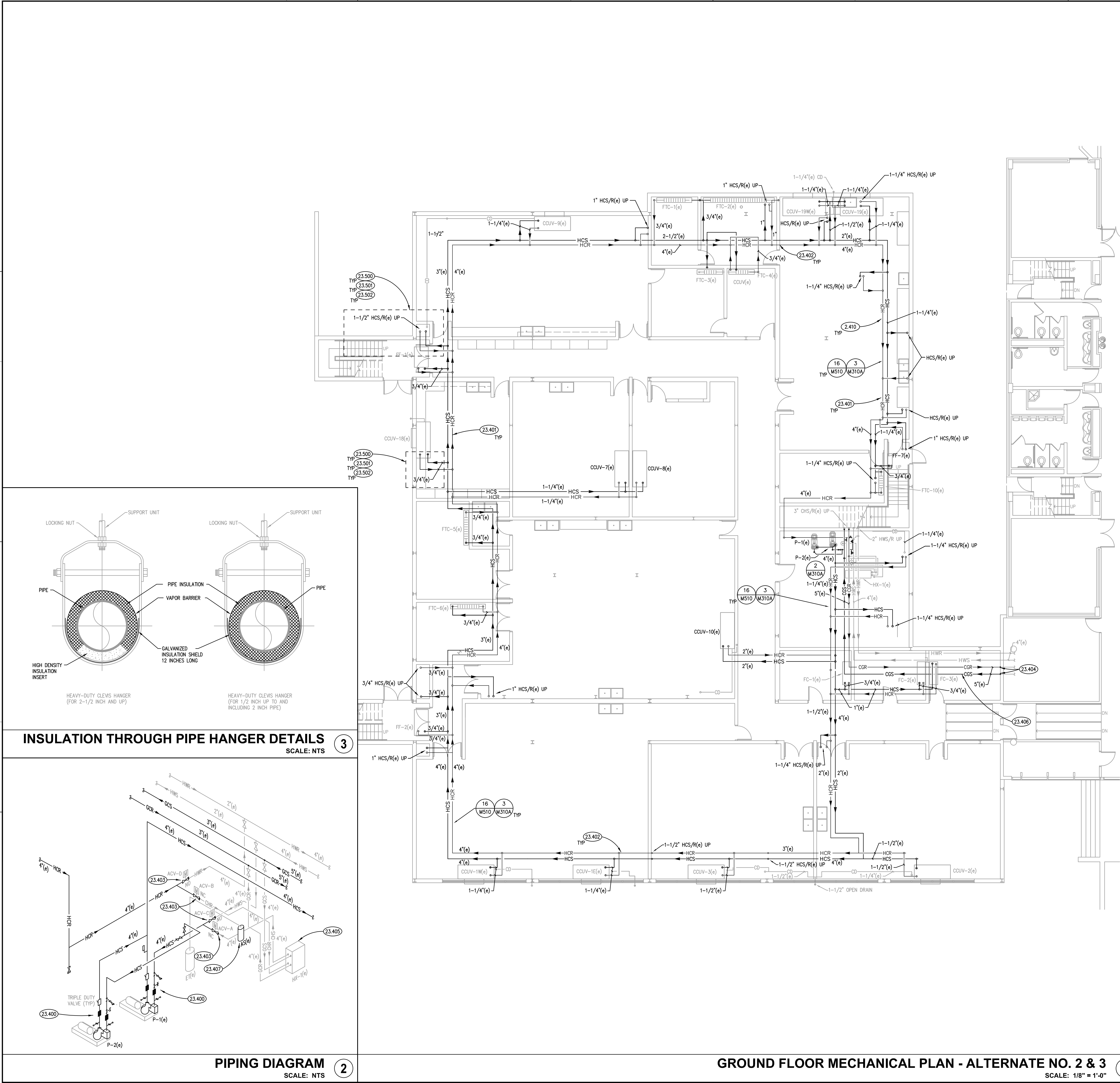
SHEET TITLE

GROUND FLOOR MECHANICAL PLAN

SHEET NUMBER

M310

P:\1574 - JUC - Black Box Theatre Ceiling Unit Replacement\3D_Design\Drawings\CD-3D_Mech\1574M310A.dwg, 8/7/2025, 3:30:05 PM, BWG



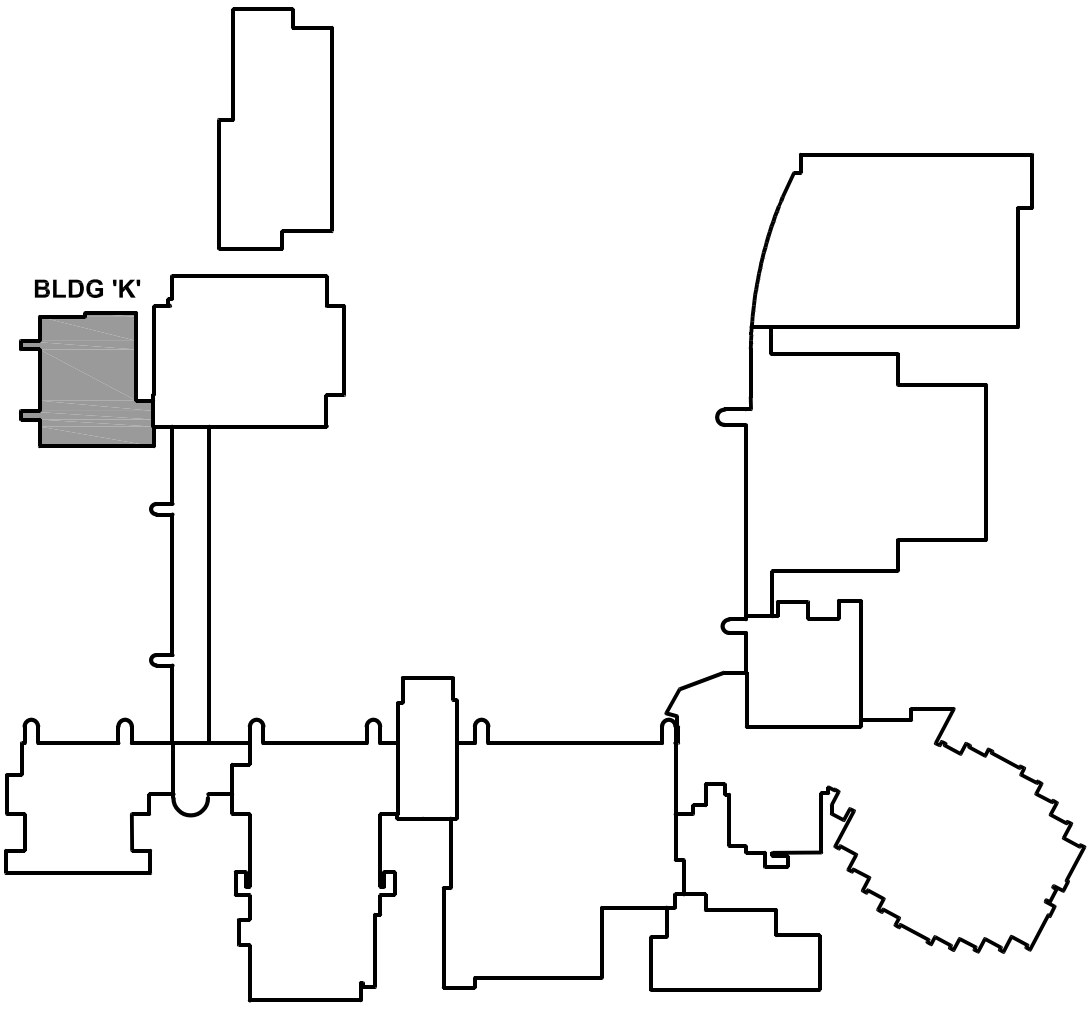
KEYNOTES

- 2.410 ALTERNATE NO. 2 - TEMPORARILY REMOVE EXISTING ACOUSTICAL CEILING TILES AND GRID MEMBERS AS REQUIRED TO PERMIT REMOVAL OR INSTALLATION OF MECHANICAL PIPING INSULATION ON HCS/R MAINS; PROTECT, STORE AND SAVE FOR RE-USE EXISTING TILES AND GRID MEMBERS; REINSTALL SAME AFTER MECHANICAL WORK IS COMPLETE; PROVIDE NEW TILE AND GRID MEMBERS MATCHING EXISTING TO REPLACE TILE AND GRID MEMBERS DAMAGED DURING REMOVAL, STORAGE OR RE-INSTALLATION OPERATIONS.
- 23.400 ALTERNATE NO. 2 - REMOVE INSULATION IN ITS ENTIRELY. PROVIDE NEW INSULATION FOR PUMP BODY, PIPING & ALL ASSOCIATED SPECIALTIES.
- 23.401 ALTERNATE NO. 2 - REMOVE INSULATION IN ITS ENTIRELY. PROVIDE NEW INSULATION FOR HCS/R PIPING MAINS, FITTINGS, AND VALVES.
- 23.402 ALTERNATE NO. 2 - PROVIDE INSULATION THROUGH ALL WALL PENETRATIONS.
- 23.403 ALTERNATE NO. 2 - PROVIDE INSULATION ON EXISTING UNINSULATED VALVE BODIES AND FLANGES.
- 23.404 ALTERNATE NO. 2 - REMOVE AND PROVIDE NEW INSULATION FROM THIS POINT.
- 23.405 ALTERNATE NO. 2 - EXISTING PIPE INSULATION AROUND PLATE HEAT EXCHANGER TO REMAIN. PROVIDE PIPE IDENTIFICATION AND FLOW ARROWS.
- 23.406 ALTERNATE NO. 2 - REMOVE INSULATION IN ITS ENTIRELY. PROVIDE NEW INSULATION FOR COS/R PIPING MAINS, FITTINGS, AND VALVES.
- 23.407 ALTERNATE NO. 2 - PROVIDE INSULATION ON AIR SEPARATOR.
- 23.500 ALTERNATE NO. 3: TEMPORARILY REMOVE EXISTING ACOUSTICAL CEILING TILES AND GRID MEMBERS AS REQUIRED TO PERMIT REMOVAL OR INSTALLATION OF MECHANICAL PIPING INSULATION ON HCS/R PIPING TO TERMINAL UNITS AND BRANCHES UP TO FLOOR ABOVE; PROTECT, STORE AND SAVE FOR RE-USE EXISTING TILES AND GRID MEMBERS; REINSTALL SAME AFTER MECHANICAL WORK IS COMPLETE; PROVIDE NEW TILE AND GRID MEMBERS MATCHING EXISTING TO REPLACE TILE AND GRID MEMBERS DAMAGED DURING REMOVAL, STORAGE OR RE-INSTALLATION OPERATIONS.
- 23.501 ALTERNATE NO. 3: REMOVE INSULATION IN ITS ENTIRELY. PROVIDE NEW INSULATION FOR PIPING, FITTINGS, AND VALVES FROM HCS/R MAINS TO TERMINAL UNITS AND BRANCHES UP TO DECK.
- 23.502 ALTERNATE NO. 3: PROVIDE INSULATION THROUGH ALL WALL PENETRATIONS.

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KEY PLAN



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JOLIET, ILLINOIS 60431

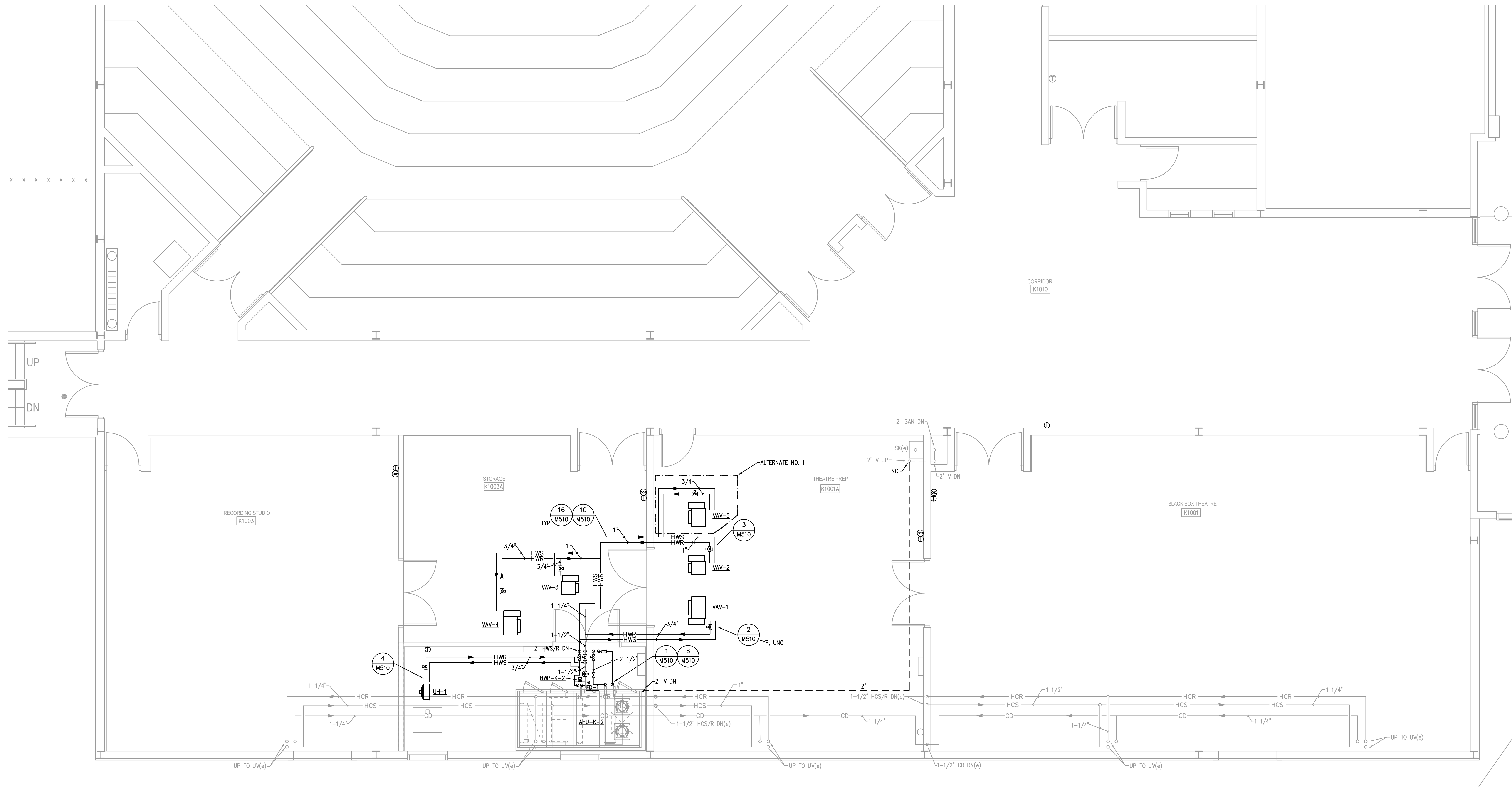
ISSUED	DATE	BY	DESCRIPTION
08/25/25			RIB & PERMIT DOCUMENTS

JOB NO.	24-292-1574
DRAWN	BWG
CHECKED	DDW
APPROVED	BWG

SHEET TITLE
GROUND FLOOR MECHANICAL PLAN - ALTERNATE NO. 2 & 3
SHEET NUMBER

M310A

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.


SECOND FLOOR HEATING PLAN

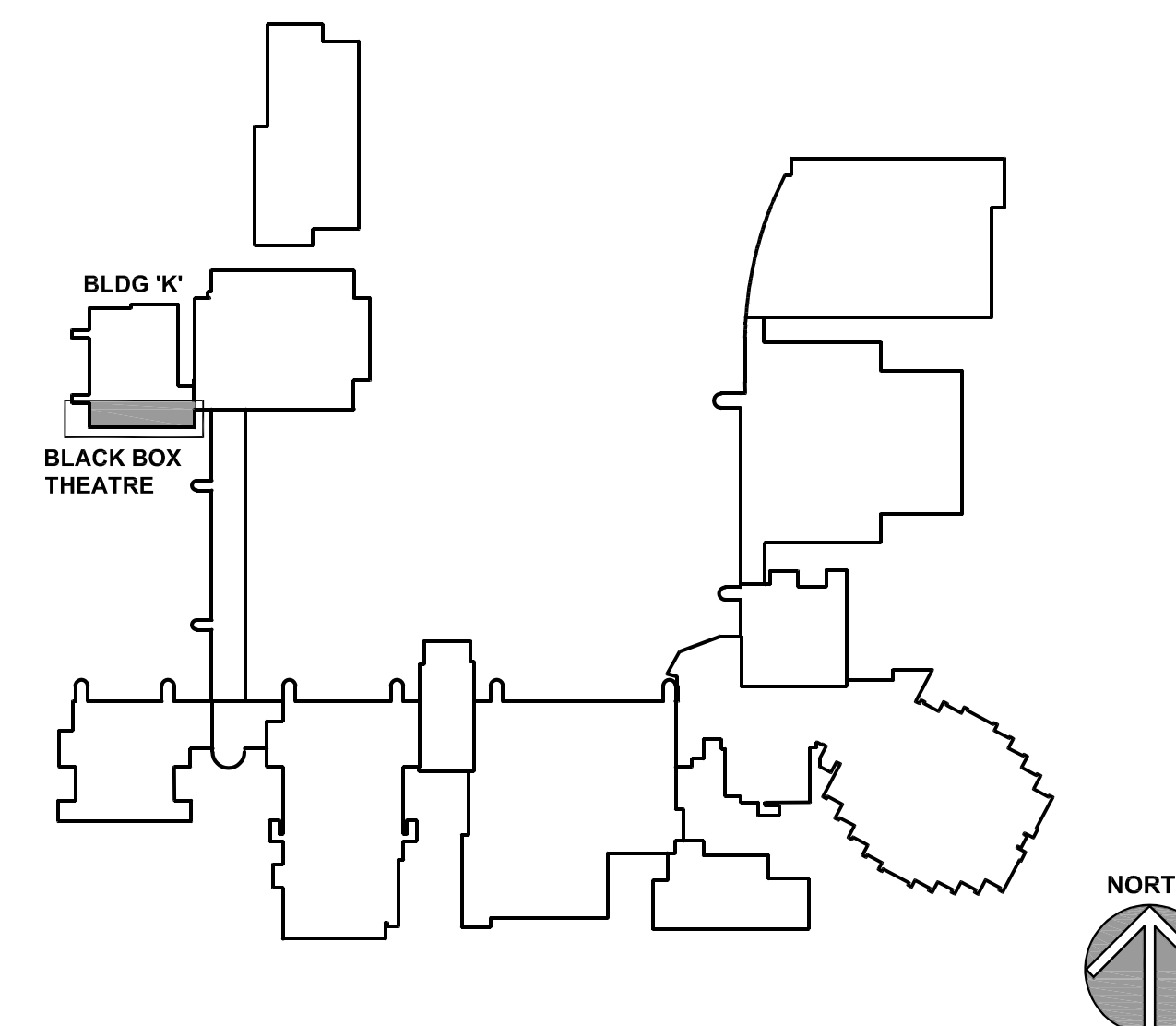
SCALE: 1/4" = 1'-0"

1
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KEY PLAN


ISSUED	
08/12/25	BID & PERMIT DOCUMENTS
JOB NO.	24-292-1574
DRAWN	BWG
CHECKED	DDW
APPROVED	BWG
SHEET TITLE	
SECOND FLOOR PIPING PLAN	
SHEET NUMBER	
M321	



BLACK BOX THEATRE AHU AND PIPE INSULATION

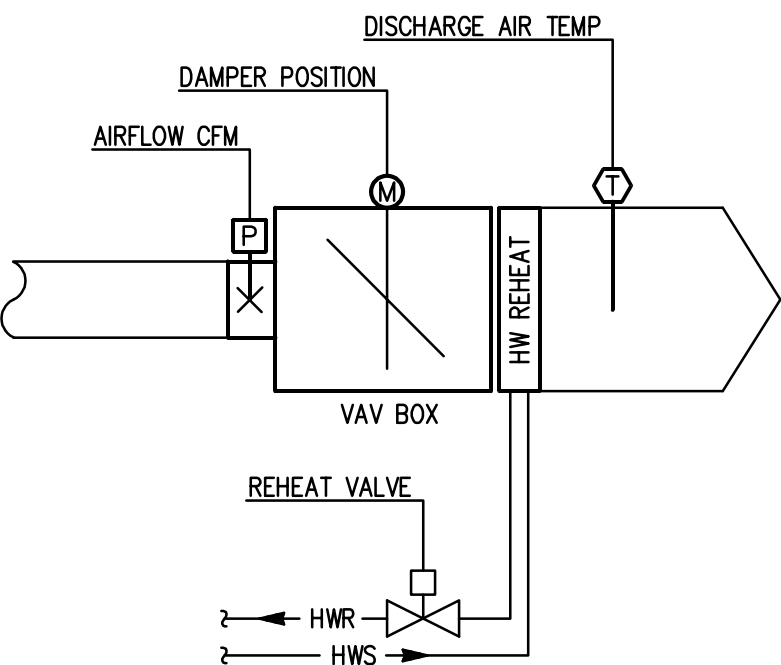
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TEMPERATURE CONTROLS

M411



VARIABLE AIR VOLUME BOX CONTROL SCHEMATIC



SEQUENCE OF OPERATIONS

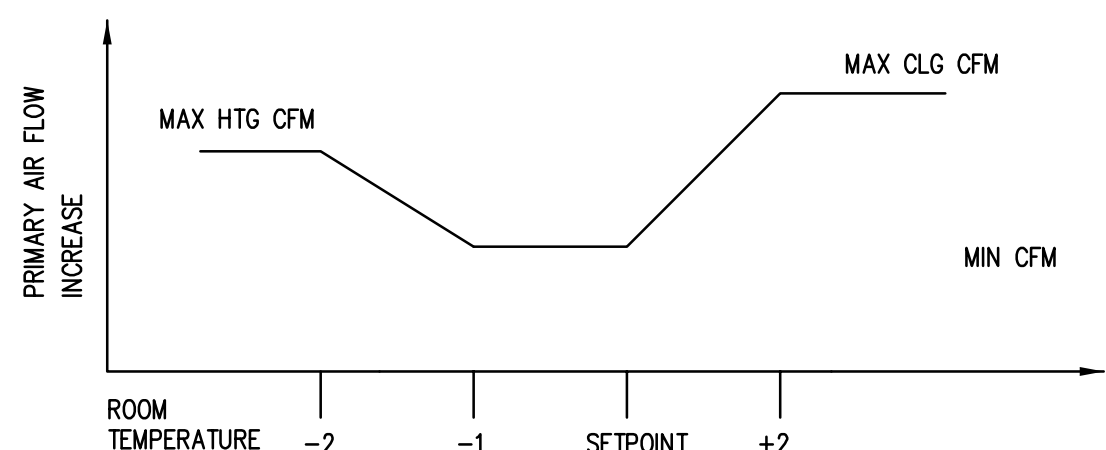
PRESSURE INDEPENDENT AIR TERMINAL SHALL MAINTAIN ZONE TEMPERATURE HEAT/COOL SETPOINTS OF 72/75 DEGREES F (ADJ) AND UNOCCUPIED COOL/HEAT SETPOINTS OF 80/65 DEGREES F. ALL SETPOINTS SHALL BE ADJUSTABLE.

COOLED MODE:
COOLING – WHEN THE AHU SUPPLY TEMPERATURE IS 60°F (ADJ.) AND BELOW (AHU IS IN COOLING MODE) THE TERMINAL UNIT DAMPER SHALL MODULATE TO MAINTAIN THE ZONE COOLING TEMPERATURE SETPOINT BY MODULATING SUPPLY AIR FLOW. WHEN THE ZONE TEMPERATURE IS ABOVE SETPOINT THE DAMPER SHALL MODULATE TO THE MAXIMUM COOLING CFM POSITION. WHEN THE ZONE TEMPERATURE IS BELOW SETPOINT THE DAMPER SHALL MODULATE TO THE MINIMUM CFM POSITION. IF THE AHU SUPPLY TEMPERATURE IS GREATER THAN 60°F (ADJ.) AND THE ZONE IS CALLING FOR COOLING, THE TERMINAL UNIT DAMPER SHALL REMAIN AT ITS MINIMUM POSITION.

HEATING - WHEN THE TERMINAL UNIT DAMPER HAS REACHED THE MINIMUM CFM POSITION AND THE ZONE TEMPERATURE IS BELOW SETPOINT THE VALVE SHALL MODULATE OPEN TO PROVIDE A DISCHARGE AIR TEMPERATURE OF 90° (ADJ.). IF THE ZONE CONTINUES TO REMAIN BELOW SETPOINT THE TERMINAL UNIT DAMPER SHALL MODULATE OPEN TO THE HEATING MAXIMUM CFM. THE VALVE SHALL MODULATE IN UNISON WITH THE DAMPER TO MAINTAIN A 90° F DISCHARGE AIR TEMPERATURE. AS THE ZONE TEMPERATURE INCREASES THE DAMPER AND VALVE SHALL REACT IN A REVERSE MANNER.

POINTS LIST

VARIABLE	AIR VOLUME BOX	HARDWARE				SOFTWARE			
		AI	AO	DI	DO	SCHED	TREND	ALARM	GRAPH
DISCHARGE AIR TEMPERATURE		X				X		X	
ZONE AIR TEMPERATURE		X							
ZONE TEMPERATURE ADJUSTMENT		X				X		X	
HEATING SETPOINT			X						
COOLING SETPOINT			X						
DAMPER POSITION			X						
AIRFLOW CFM		X				X		X	
MINIMUM AIRFLOW SETPOINT			X						
MAXIMUM COOLING AIRFLOW SETPOINT			X						
MAXIMUM HEATING AIRFLOW SETPOINT			X						
ZONE HIGH TEMPERATURE ALARM			X				X	X	
ZONE LOW TEMPERATURE ALARM			X				X	X	
REHEAT COIL 2-WAY VALVE		X				X		X	
HOT WATER COIL VALVE POSITION FEEDBACK		X				X	X		
UNOCCUPIED MODE OVERRIDE			X					X	
ZONE CO2 LEVEL		X					X	X	
ZONE CO2 SETPOINT (HIGH / LOW)		X							X



NOTES:

- 1) SEE VENTILATION FLOOR PLANS FOR EQUIPMENT LAYOUT AND CONTROL CABINET LOCATIONS.
- 2) SPACE TEMPERATURE/CO2 SENSORS SHALL BE BLACK IN COLOR FOR THE FOLLOWING ROOMS: K1001, K1001A, K1003

M411



ROUND DUCTWORK HANGER DETAILS



AIR HANDLING UNIT SCHEDULE

MARK	AIR FLOW (CFM)	MINIMUM OA (CFM)	COOLING						HEATING						SUPPLY FAN (HP)	EXTERNAL STATIC PRESS (IN WG)	ELECTRICAL		MODEL	NOTES	
			OA TEMP (DB / WB °F)	ENT AIR TEMP (DB / WB °F)	LVG AIR TEMP (DB / WB °F)	EWI / LWT (°F)	SENS CAP (MBH)	TOTAL CAP (MBH)	WATER FLOW RATE (GPM)	WATER PRES DROP (FT)	TOTAL CAP (MBH)	EWI / LWT (°F)	EAT / LAT (°F)	WATER FLOW RATE (GPM)			WATER PRESS DROP (FT)	VIP/PHZ			FLA
AHU-K-2	5,750	450-2,000	91.4 / 75.5	80.8 / 67.4	53.4 / 53.4	45.0 / 55.0	169.9	240.8	52.9	7.39	235.3	140.0 / 115.6	44.9 / 80.9	19.5	6.81	2 @ 5.0	2.0	460/3/60	11	TEMPROL	1, 2, 3, 4
<div>NOTES: 1. MODEL BASED ON TEMPTROL BY NORTEK. 2. PROVIDE WITH 8-INCH BASE RAIL. 3. PROVIDE WITH DISCONNECT SWITCH. 4. COOLING COIL BASED ON 30% ETHYLENE GLYCOL.</div>																					

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	AIR FLOW (CFM)	MIN AIR FLOW (CFM)	INLET SIZE (IN)	REHEAT COIL						EWT/LWT (°F)	MAX WPD (FT)	CAPACITY (MBH)	ROWS / FINS PER INCH	MODEL	NOTES
				AIR FLOW (CFM)	MAX APD (IN WG)	EAT / LAT (°F)	WATER (GPM)								
VAV-1	2,200	725	16	1,500	0.39	55.0 / 90.0	3.6	140 / 107.9	0.22	57.0	3 / 10	DESV	1, 2, 3		
VAV-2	600	200	10	600	0.13	55.0 / 90.0	5.1	140 / 130.9	1.61	22.8	2 / 10	DESV	1, 2		
VAV-3	520	165	10	520	0.10	55.0 / 89.2	2.7	140 / 125.5	0.49	19.3	2 / 10	DESV	1, 2		
VAV-4	1,200	400	14	1,200	0.19	55.0 / 90.0	2.4	140 / 102.0	0.26	45.9	3 / 10	DESV	1, 2, 3		
VAV-5	1,650	400	14	600	0.21	55.0 / 90.0	1.7	140 / 112.9	0.19	22.8	2 / 10	DESV	1, 2, 4		
NOTES: 1. MODEL BASED ON TITUS. 2. MAXIMUM AIR PRESSURE DROP BASED ON MAXIMUM SCHEDULED CFM. 3. PROVIDE WITH PREMIUM, HINGED CAMLOCK ACCESS DOORS ON BOTTOM OF VAV BOX. 4. ITEM ASSOCIATED WITH ALTERNATE NO. 1.															

PRESSURE INDEPENDENT CONTROL VALVE SCHEDULE

TAG	SIZE (IN)	VALVE FLOW RATE (GPM)	MIN FLOW RATE (GPM @ 5 PSIG)	MAX FLOW RATE (GPM)	MAX FLOW VARIATION (%)	MIN DELTA P ACROSS VALVE (PSIG)	CLOSE OFF PRESSURE (PSIG)	BODY PRESSURE RATING (PSIG)	FAIL (LAST, OPEN CLOSED)	VALVE MATERIALS			CONNECTION TYPE	NOTES
										BODY	INTERNALS	SEALS		
CHCV-1	2	43.7	-	55	5	4.4	250	200	LAST	DUCTILE IRON	COPPER / 304 SS	EDPM	MALE NPT	1, 2, 3, 4
HWCV-1	1-1/2	19.5	-	33	5	4.4	250	200	-	DUCTILE IRON	COPPER / 304 SS	EDPM	MALE NPT	1, 2, 3
VAV-1	1/2	3.6	-	5.0	5	5.0	232	200	LAST	BRASS	BRASS / 304 SS	EDPM	MALE NPT	1, 2, 3, 4
VAV-3	1/2	2.7	-	5.0	5	5.0	232	200	LAST	BRASS	BRASS / 304 SS	EDPM	MALE NPT	1, 2, 3, 4
VAV-4	1/2	2.4	-	5.0	5	5.0	232	200	LAST	BRASS	BRASS / 304 SS	EDPM	MALE NPT	1, 2, 3, 4
VAV-5	1/2	1.7	-	5.0	5	5.0	232	200	LAST	BRASS	BRASS / 304 SS	EDPM	MALE NPT	1, 2, 3, 4, 5
UH-1	1/2	2.2	-	5.0	5	5.0	232	200	OPEN	BRASS	BRASS / 304 SS	EDPM	MALE NPT	1, 2, 3, 4
NOTES: 1. DESIGN BASIS: DANFOSS AB-QM. 2. VALVE SHALL HAVE LINEAR FLOW CHARACTERISTIC, FIELD ADJUSTABLE FLOW RATE AND MODULATING ACTUATOR. 3. PROVIDE WITH UNION, BALL VALVE AND STRAINER (#20 MESH). 4. PROVIDE WITH PRESSURE AND TEMPERATURE MEASUREMENT PORTS. 5. ITEM ASSOCIATED WITH ALTERNATE NO. 1.														

FAN SCHEDULE

MARK	AIR FLOW RATE (CFM)	EXTERNAL S.P. (IN WG)	DRIVE TYPE	DISCHARGE	ROTATION	MOTOR (HP)	ELECTRICAL (V/PH/Hz)	FAN ENERGY INDEX (FEI)	AREA SERVED	LOCATION	MODEL	NOTES
EF-2	4,500	0.65	DIRECT/ECM	SIDE	-	2.0	460/3/60	1.12	AHU-1	K1003B	SQN-D VF	1, 2
NOTES: 1. MODEL BASED ON LOREN COOK. 2. PROVIDE WITH MOTORIZED DAMPER, SIDE DISCHARGE AND EXTERNAL SIGNAL SPEED CONTROL.												

WALL LOUVER SCHEDULE

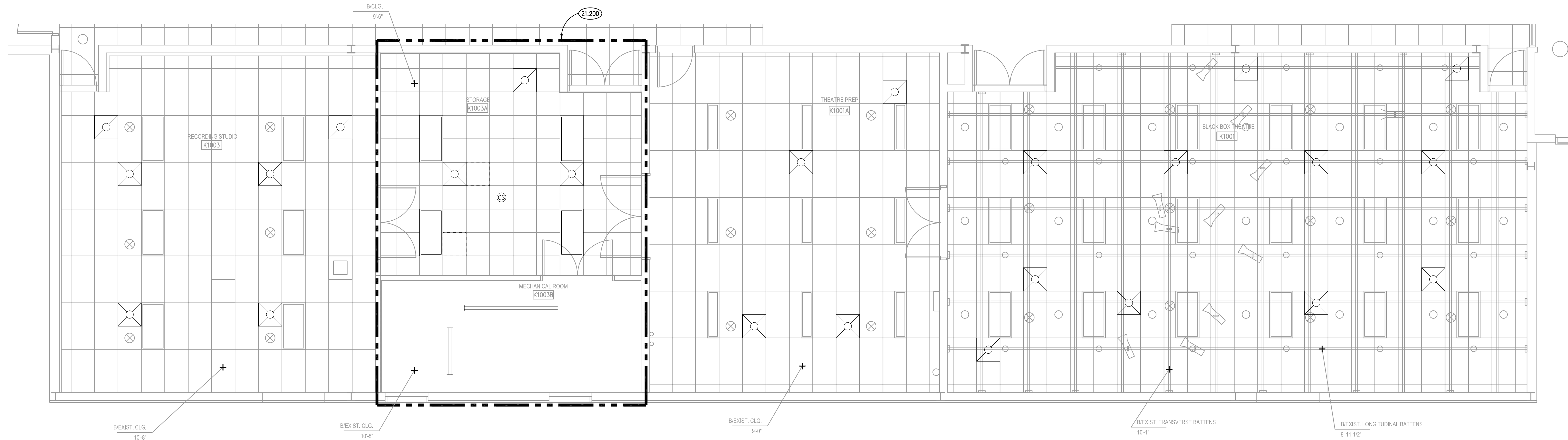
MARK	AIR FLOW RATE (CFM)	SIZE W x H (IN x IN)	VELOCITY (FPM)	PRESSURE DROP (IN WG)	APPLICATION	SERVED BY	LOCATION	MODEL	NOTES
WL-1	4,550	44 x 44	600	0.06	INTAKE	AHU-1	K1003B	ELF6375DX	1, 2, 3
WL-2	4,550	44 x 44	600	0.05	EXHAUST	EF-1	K1003B	ELF6375DX	1, 2, 3
NOTES: 1. MODEL BASED ON RUSKIN. 2. PROVIDE WITH INSECT SCREEN FOR INTAKE APPLICATION AND BIRD SCREEN FOR EXHAUST APPLICATIONS. 3. COLOR = BONE WHITE.									

PUMP SCHEDULE

MARK	WATER FLOW RATE (GPM)	HEAD (FT)	TYPE	MOTOR POWER (HP)	ELECTRICAL (V/PH/Hz)	MOTOR SPEED (RPM)	SERVICE	MODEL	NOTES
HWP-2	7	10	INLINE	1/6	115/1/60	1,725	AHU-1	SERIES-HV	1
NOTES: 1. MODEL BASED ON BELL & GOSSETT.									

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

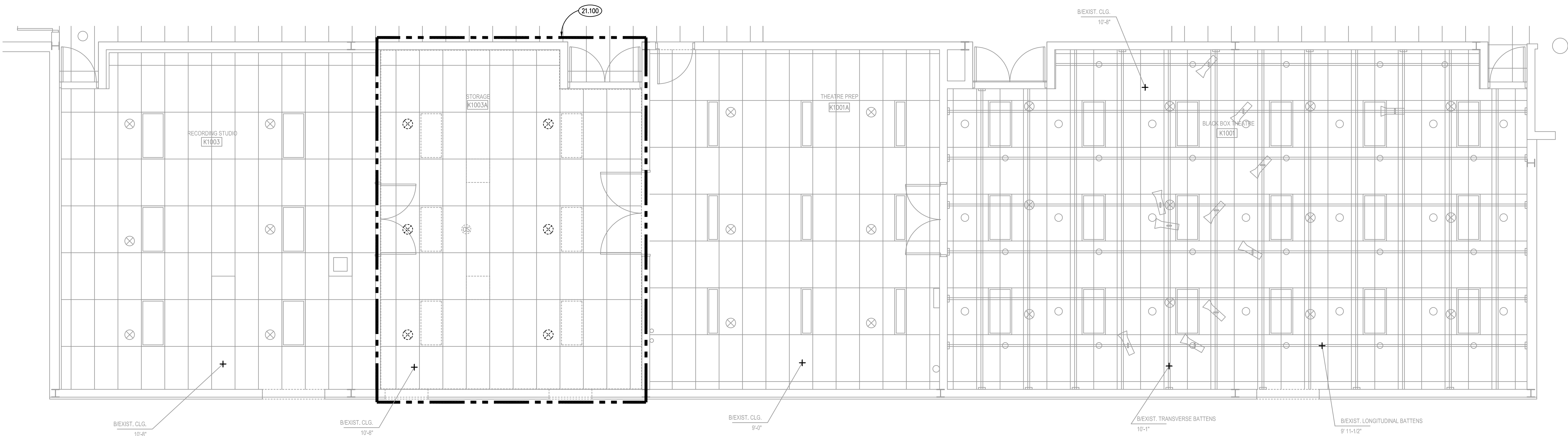
MARK	MODEL	SIZE	NECK	DAMPER	MATERIAL	REMARKS
S-1	OMNI	24 / 24	8"ø	ØBD	ST	1
S-2	OMNI	24 / 24	10"ø	ØBD	ST	1, 3
S-3	OMNI	24 / 24	10"ø	ØBD	ST	1
R-1	50F	24 / 24	22 / 22	-	AL	1, 2
R-2	50F	24 / 24	22 / 22	-	AL	1, 2, 3
NOTES: 1. MODEL BASED ON TITUS. 2. PROVIDE WITH RETURN AIR CANOPY (RCP). 3. COLOR = BLACK.						



SECOND FLOOR FIRE PROTECTION PLAN

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

2



SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN

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

1

CEILING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GYPSUM BOARD		MECHANICAL DIFFUSER: SUPPLY
	ACoustICAL CEILING TILE: 2' X 2'		MECHANICAL DIFFUSER: RETURN
	ACoustICAL CEILING TILE: 2' X 4'		MECHANICAL DIFFUSER: EXHAUST
			LIGHT FIXTURE: 1' X 4'
			LIGHT FIXTURE: 2' X 2'
			DOWN LIGHT FIXTURE

GENERAL NOTES

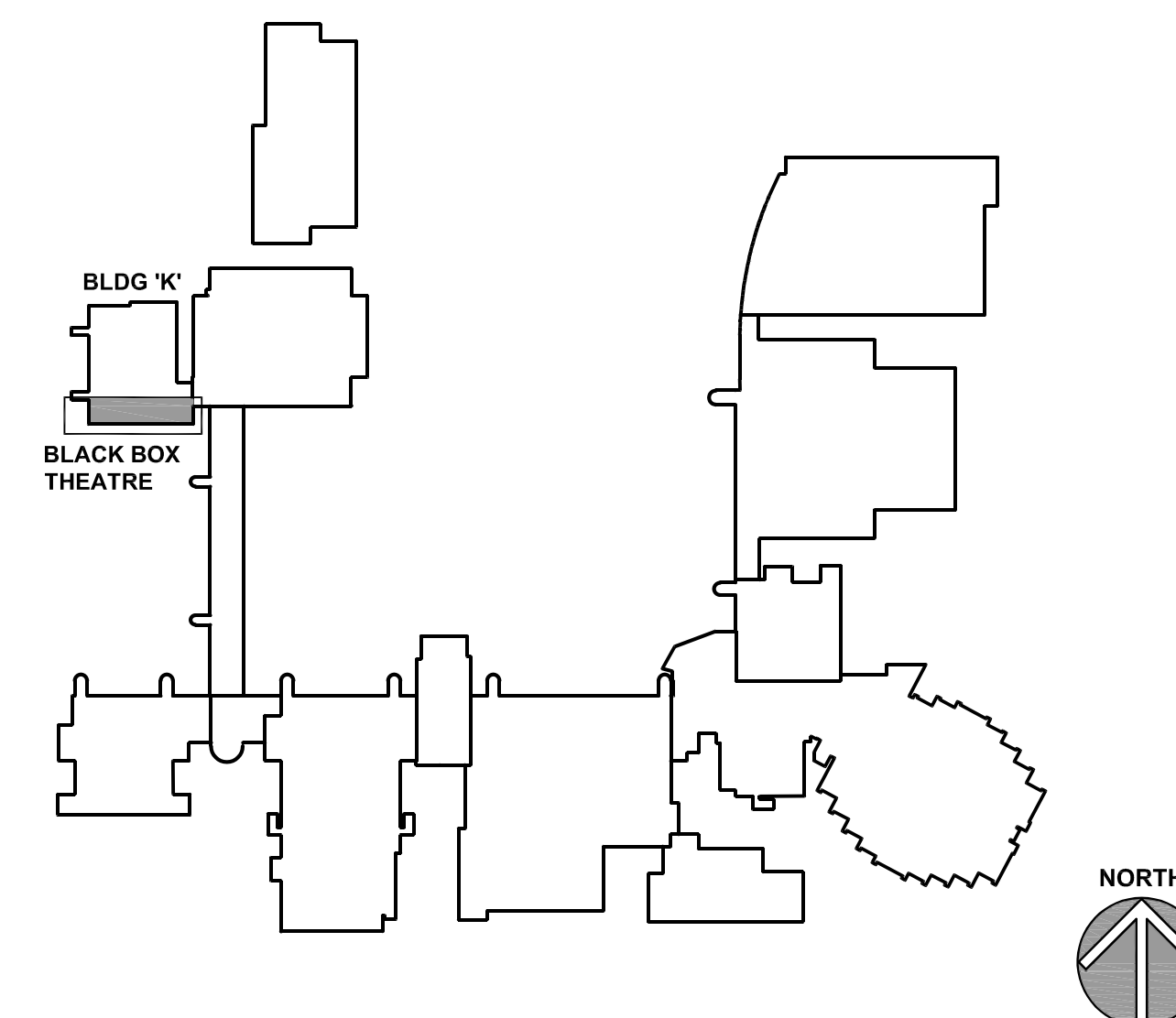
- REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
- SPRINKLER SYSTEM SHOWN ARE CONCEPT DRAWINGS AND ARE SCHEMATIC FOR BIDDING PURPOSES ONLY. CONCEPT DRAWINGS ARE INTENDED TO ILLUSTRATE THE SCOPE OF WORK. THE CONTRACTOR SHALL VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM. THE DESIGN SHALL BE ACCOMPLISHED UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER OR NICET LEVEL III/IV. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BEAR THE LICENSED PROFESSIONAL'S STAMP.
- FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
- PIPING 2 INCHES AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPING WITH THREADED COUPLINGS AND FITTINGS. PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL PIPING WITH ROLL-GROOVED FITTINGS AND COUPLINGS.
- HYDRAULIC CALCULATIONS FOR: LIGHT HAZARD - 0.10 GPM/SF OVER 1500 SQUARE FEET; ORDINARY HAZARD - GROUP 1, 0.15 GPM/SF OVER 1500 SQUARE FEET; ORDINARY HAZARD - GROUP 2, 0.20 GPM/SF OVER 1500 SQUARE FEET.
- ALL SPRINKLER HEADS IN LAY-IN CEILING TILES SHALL BE CENTERED ON 2'x2' END AREA OF TILE.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES.
- DO NOT CUT THROUGH STRUCTURAL ELEMENTS WHEN INSTALLING OPENINGS REQUIRED FOR ALL PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DAMAGED ELEMENTS.
- OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 21.100 REMOVE SPRINKLER HEADS AND PIPING AS REQUIRED FOR MODIFICATIONS IN OUTLINED AREA SHOWN. REFER TO NEW WORK PLAN. PROVIDE PERMANENT CAP ON BRANCH TAKE-OFFS NOT TO BE REUSED.
- 21.200 PROVIDE NEW SPRINKLER HEADS, MATERIALS, AND LABOR TO PROVIDE FIRE PROTECTION OF OUTLINED AREA TO ACCOMMODATE NEW CEILING AND ROOM CONFIGURATIONS.

KEY PLAN

ISSUED
08/12/25 BID & PERMIT DOCUMENTS

JOB NO. 24-292-1574
DRAWN BWG
CHECKED DDW
APPROVED BWG

SHEET TITLE

SECOND FLOOR FIRE
PROTECTION PLANS

SHEET NUMBER

F320

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS	IDF	INTERMEDIATE DISTRIBUTION FRAME	PB	PUSH BUTTON
AC	ABOVE COUNTER	IG	ISOLATED GROUND	PC	PLUMBING CONTRACTOR
AF	AMPERE FRAME/AMPERE FUSE	INC	INCANDESCENT	PDU	POWER DISTRIBUTION UNIT
AFF	ABOVE FINISHED FLOOR	INT	INTEGRAL	PH	PHASE
AHU	AIR HANDLING UNIT	IR	IN ROOM	PNL	PANEL
AIC	AMPERE INTERRUPTING CURRENT	IU	IN UNIT	PROVIDE	FURNISHED, INSTALLED, WIRED AND CONNECTED COMPLETE BY CONTRACTOR
AT	AMPERE TRIP			PVC	POLYVINYL CONDUIT
ATS	AUTOMATIC TRANSFER SWITCH			PW	PRE-WIRED
AWG	AMERICAN WIRE GAGE				
B		JB	JUNCTION BOX	QTY.	QUANTITY
BKR	BREAKER				
BOL	BUILT-IN OVERLOAD	K		R	
BWE	BAKED WHITE ENAMEL	Kcmil	1000 CIRCULAR MILS	REQ'D	REQUIRED
BTU	BRITISH THERMAL UNIT	KV	KILOVOLT	RTU	ROOF TOP UNIT
C		KVA	KILOVOLT-AMPS		
CATV	CABLE TELEVISION SYSTEM	KVAR	KILOVOLT-AMPS REACTIVE	S	
C/B	CIRCUIT BREAKER	KW	KILOWATT	SC	SEPARATE CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION	KWH	KILOWATT-HOUR	SD	SMOKE DETECTOR
CKT	CIRCUIT			SF	SQUARE FEET
CU	COPPER	L		SPOT	SINGLE-POLE, DOUBLE-THROW
		LP	LOW PRESSURE	SPST	SINGLE-POLE, SINGLE-THROW
D		LVT	LOW-VOLTAGE THERMOSTAT	SS	STAINLESS STEEL
DPDT	DOUBLE-POLE, DOUBLE-THROW	M		SW	SWITCH
DPST	DOUBLE-POLE, SINGLE-THROW	MAG	MAGNETIC MOTOR STARTER	SWBD	SWITCHBOARD
DS	DOWNSPOUT	MAN	MANUAL MOTOR STARTER	T	THERMOSTAT
E		MC	MECHANICAL CONTRACTOR	TELE	TELEPHONE
EBH	ELECTRIC BASEBOARD HEATER	MCA	MAXIMUM CURRENT AMPACITY	TC	TIME CLOCK
EC, E.C.	ELECTRICAL CONTRACTOR	MCB	MAIN CIRCUIT BREAKER	TCP	TEMPERATURE CONTROL PANEL
ECH	ELECTRIC CABINET HEATER	MCC	MOTOR CONTROL CENTER	TS	TOGGLE SWITCH
EF	EXHAUST FAN	MD	MOTORIZED DAMPER	TTB	TELEPHONE TERMINAL BOARD
EM	EMERGENCY	MDP	MAIN DISTRIBUTION FRAME	TTC	TELEPHONE TERMINAL CABINET
EMT	ELECTRICAL METALLIC TUBING	MFR	MAIN DISTRIBUTION PANEL	TWJ	THRU WALL AIR CONDITIONING UNIT
EWC	ELECTRIC WATER COOLER	MH	MANUFACTURER	TYP.	TYPICAL
EW	ELECTRIC WATER HEATER	MH	METAL HALIDE	U	
		MLO	MAIN LUG ONLY	UG	UNDERGROUND
F		MNS	MASS NOTIFICATION SYSTEM	UH	UNIT HEATER
FAAP	FUSED	MOC	MINIMUM OVERCURRENT PROTECTION	UL	UNDERWRITERS LABORATORIES, INC.
FACP	FIRE ALARM ANNUNCIATOR PANEL	MS	MANUAL SWITCH	U.N.O.	UNLESS NOTED OTHERWISE
FC	FIRE ALARM CONTROL PANEL	MSBD	MAIN SWITCH BOARD	UM	UNIT MANUFACTURER
FCS	FUSE CLIP SIZE	MTD	MOUNTED	UPS	UNINTERRUPTIBLE POWER SUPPLY
FBP	FAN POWERED BOX	MUA	MAKE-UP AIR UNIT	V	
FBO	FURNISHED BY OTHERS	N		V	VOLT
FLA	FULL LOAD AMPS	N/A	NOT APPLICABLE	VA	VOLT-AMPERES
FLR	FLOOR	N.C.	NORMALLY CLOSED	VAC	VOLT ALTERNATING CURRENT
FPC	FIRE PROTECTION CONTRACTOR	NF	NON-FUSED	VAV	VARIABLE AIR VOLUME
FS	FLOAT SWITCH	N.I.C.	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
FVNR	FULL-VOLTAGE, NON-REVERSING	NL	NIGHT LIGHT	W	
G		N.O.	NORMALLY OPEN	W	WATT
GC	GENERAL CONTRACTOR	N.T.S., NTS	NOT TO SCALE	W	WITH
OFI	GROUND FAULT CIRCUIT INTERRUPTER	NU	NEAR UNIT	W/O	WITHOUT
GRD	GROUND	O		WG	WIRE GUARD
GRS	GALVANIZED RIGID STEEL	O.H.	OVERHEAD	WP	WEATHER PROOF
H		OU	ON UNIT	X	
HOA	HAND-OFF-AUTOMATIC	OCPO	OVERCURRENT PROTECTION DEVICE	X	EXISTING EQUIPMENT
HP	HORSEPOWER			XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM			XP	EXPLOSION-PROOF
HVAC	HEATING AND VENTILATING CONTRACTOR				
HWGC	HEAVY WALL GALVANIZED CONDUIT				

ELECTRICAL SYMBOLS LIST

SYMBOL			DESCRIPTION
CEILING	WALL	FLOOR	
			2X4 RECESSED TROFFER FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.
			SHADING-NIGHT LIGHT
			DOWN LIGHT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.
			SINGLE POLE TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V
			3-WAY TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V
			3D-WAY DIMMER
			DUPLEX RECEPTACLE. 20A 125V 2P 3W GRD. NEMA5-20R. @18" AFF
			DOUBLE DUPLEX RECEPTACLE. @18" AFF
			20A 125V 2P 3W GRD. NEMA5-20R. PO=POP UP RECEPTACLE
			COMMUNICATIONS OUTLET @18" AFF. REFER TO COMMUNICATION OUTLET
			DETAIL. B = BLANK JACK, AV= AUDIO/VISUAL JACK, MIC= MICROPHONE JACK.
			PO=POP UP LOW VOLTAGE SECTION. PD=PEDESTAL MOUNTED
			JUNCTION BOX
			TS = TOMBSTONE TYPE
			WIRING IN CONDUIT CONCEALED ABOVE CEILING, IN WALL AND UNDER FLOOR OR UNDERGROUND.
			SPEAKER, FLUSH MOUNTED, PROVIDE METAL BACK BOX IN CEILING AT EACH LOCATION
			INDICATED ON THE PLANS, FURNISHED UNDER ALLOWANCE, INSTALLED BY E.C.
			BRANCH CIRCUIT WIRING IN CONDUIT HOMERUN TO PANEL, ONE ARROW PER HOMERUN, SLASHES INDICATE NUMBER OF CONDUCTORS.
			INDICATES GROUND CONDUCTOR.
			INDICATES ISOLATED GROUND CONDUCTOR.
			FIRE ALARM HORN-STROBE COMBINATION. @80" AFF
			NUMBER INDICATES CANDELA LEVEL (110cd UNLESS NOTED OTHERWISE)
			MOTOR. HP= HORSE-POWER RATING.
			PANEL 240V & BELOW.
			PANEL ABOVE 240V.
MOUNTING HEIGHT			
FIRE ALARM PULL STATION			48"
STROBES			80"
FIRE ALARM BELLS(EXTERIOR)			12'-0"
FAAP & FAAP			48"
EXIT SIGNS(BOTTOM)			80"
TV OUTLET			18"
INTERCOM			48"
PHOTOCELL			12'-0"
RECEPTACLE(CENTERLINE)			18"
RECEPTACLE(EXTERIOR)			24"
RECEPTACLE(WAREHOUSE)			30"
TELEPHONE OUTLET(PUBLIC)			54"
TELEPHONE OUTLET SWITCH			18"
SAFETY SWITCHES			48"
PANELS(TOP)			72"
CLOCK(CENTERLINE)			96"
VIDEO OUTLET			96"
MISCELLANEOUS			
			HVAC EQUIPMENT IDENTIFICATION
			KEYNOTE IDENTIFICATION
			DETAIL IDENTIFICATION

TYP. WALL PENETRATION DETAIL

3

SCALE: N.TS.

TYP. FLOOR PENETRATION DETAIL

2

SCALE: N.TS.

INTERIOR LUMINAIRE SCHEDULE

TYPE	SPECIFICATIONS	DESCRIPTION	MFGR.	CATALOG NUMBER	VOLTAGE	WATTAGE	FINISH	MOUNTING	NOTE
A1	4000K, 45W MAX 0-10V DIMMING, 5000LM NOMINAL	4' LED STRIP LIGHT	LITHONIA LIGHTING	CSS L48 AL03 MVOLT 40K 80 CRI	UNV (120-277)	41	WHITE	SUSPENDED	
			COLUMBIA LIGHTING	CSL4-A-LSCS					
			DAYBRITE	SDS-4-2448L-8CST-UNV-DIM					
A2	4000K, 85W MAX 0-10V DIMMING, 10000LM NOMINAL	8' LED STRIP LIGHT	LITHONIA LIGHTING	CLX L96 10000 SEF FDL 277V G210 40K 80CRI BGDt WH	UNV (120-277)	81	WHITE	SUSPENDED	1
			COLUMBIA LIGHTING	MPS8-40HL-FW-EDU-DTS					
			DAYBRITE	FSS810L840-277V-DIM-ER100					

Notes:
1. PROVIDE UL 924 RELAY FOR LUMINAIRE

HVAC/PLUMBING EQUIPMENT SCHEDULE

NO.	DESCRIPTION	FLA	KW	HP	VOL	PH	CCT NO.	DISC. FURN BY	STARTER		CIRCUIT WIRING	NOTE
									TYPE	BY		
AHU-K-2	AIR HANDLING UNIT	8	-	-	480	3	1P-1-1	UNIT	ECM	MFR	3#12, #12G, 3/4"C	1
EF-K-2	EXHAUST FAN	3.4	-	2	480	3	1P-1-5	UNIT	ECM	MFR	3#12, #12G, 3/4"C	2
HWP-K-2	HOT WATER PUMP	-	-	1/8	120	1	1L-1A-27	E.C.	NEMA 00	E.C.	2#12, #12G, 3/4"C	
UH-1	HOT WATER UNIT HEATER	-	-	F	120	1	1L-1A-29	E.C.	UNIT	MFR	2#12, #12G, 3/4"C	

Notes:
1. PROVIDE ELECTRICAL CONNECTION TO AHU CONTROL PANEL (REMOTE ON WALL)
2. PROVIDED WITH MOTORIZED BACKDRAFT DAMPER WIRED BY THIS CONTRACTOR.

1P-1 (EXISTING)

225 AMPERE, 277/480 VOLT, 3 PHASE, 4 WIRE, WYE, FUSIBLE KINNEY SWITCHBOARD W/ WESTINGHOUSE FDP UNITS

CKT	FUSE	DESCRIPTION	FRAME	A	B	C	TOTAL
1	EX.	SPARE	30/3	0	0	0	0
2	EX.	PHASE PROTECTION RELAY	30/3	E	E	E	0
3	EX.	PUMP-1	30/3	3878	3878	3878	11634
4	EX.	NEW AC COND.	30/3				0
5	EX.	SPARE	30/3				0
6	EX.	PUMP-2	30/3	3878	3878	3878	11634
NOTES: DEMO				CONNECTED VA:	3878	3878	3878
				CONNECTED AMPS:	14	14	14

1P-1 (REMODELED)

225 AMPERE, 277/480 VOLT, 3 PHASE, 4 WIRE, WYE, FUSIBLE KINNEY SWITCHBOARD W/ WESTINGHOUSE FDP UNITS

CKT	FUSE	DESCRIPTION	FRAME	A	B	C	TOTAL
1	15/3	AHU-1 (BLACKBOX)	30/3	2216	2216	2216	6648
2	EX.	PHASE PROTECTION RELAY	30/3	E	E	E	0
3	EX.	PUMP-1	30/3	3878	3878	3878	11634
4	EX.	NEW AC COND.	30/3	E	E	E	0
5	15/3	EF-1 (BLACKBOX)	30/3	942	942	942	2826
6	EX.	PUMP-2	30/3	3878	3878	3878	11634
NOTES: NEW				NEW CONNECTED VA:	6094	6094	18282
				NEW CONNECTED AMPS:	22	22	22
				NEW DEMAND VA:	18282		
				NEW DEMAND AMPS:	22		

PANEL : 1L-1A (EXISTING)

100 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE			DESCRIPTION	BRKR	CKT. NO.
			A	B	C			
1	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	2
3	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	4
5	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	6
7	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	8
9	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	10
11	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	12
13	1P20	R-ROOM 118	1000			R-ROOM 118	1P20	14
15	1P20	R-ROOM 118-126	1000			R-ROOM 116	1P20	16
17	1P20	R-ROOM 126	1000			R-ROOM 116	1P20	18
19	1P20	R-ROOM 126	600			TRACK LITES K0003	1P20	20
21	1P20	R-ROOM-126	600			TRACK LITES K0005	1P20	22
23	1P20	R-ROOM 126	600			TRACK LITES K0003	1P20	24
25	1P20	R-ROOM-126	250			MICROWAVE STROBE	1P20	26
27	-	-				-	-	28
29	-	-				-	-	30

NOTES:
MOUNTING: SURFACE
RATING: 10000
ENCLOSURE: NEMA 1
FED FROM: WIRE 14
FEEDER SIZE: EXISTING TO REMAIN
LOCATION: MECH ROOM K0015

PANEL : 1L-1A (REMODELED)

100 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE			DESCRIPTION	BRKR	CKT. NO.
			A	B	C			
1	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	2
3	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	4
5	1P20	R-ROOM 127	1000			R-ROOM 118	1P20	6
7	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	8
9	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	10
11	1P20	R-ROOM 128	1000			R-ROOM 118	1P20	12
13	1P20	R-ROOM 118	1000			R-ROOM 118	1P20	14
15	1P20	R-ROOM 118-126	1000			R-ROOM 116	1P20	16
17	1P20	R-ROOM 126	1000			R-ROOM 116	1P20	18
19	1P20	R-ROOM 126	600			TRACK LITES K0003	1P20	20
21	1P20	R-ROOM-126	600			TRACK LITES K0005	1P20	22
23	1P20	R-ROOM 126	600			TRACK LITES K0003	1P20	24
25	1P20	R-ROOM-126	250			MICROWAVE STROBE	1P20	26
27	1P20	HWP-1	528			REC - MECH RM K1003B	1P20	28
29	1P20	UH-1	500			BAS PANEL/AIR BALANCE KIT	1P20	30

NOTES:
MOUNTING: SURFACE
RATING: 10000
ENCLOSURE: NEMA 1
FED FROM: WIRE 14
FEEDER SIZE: EXISTING TO REMAIN
LOCATION: MECH ROOM K0015

SCHEDULES

1

SCALE: N.TS.

ISSUED

08/22/25

REQ & PERMIT DOCUMENTS

JOB NO. 24-292-1574

DRAWN ATR

CHECKED MTK

APPROVED MTK

SHEET TITLE

ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, SCHEDULES, & DETAILS

SHEET NUMBER

E000

KLUBER

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BLACK BOX THEATRE AHU AND PIPE INSULATION

JOLIET JUNIOR COLLEGE

1215 HOUBOLT ROAD

JOLIET, ILLINOIS 60431

08/22/25

REQ & PERMIT DOCUMENTS

JOB NO. 24-292-1574

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CHECKED MTK

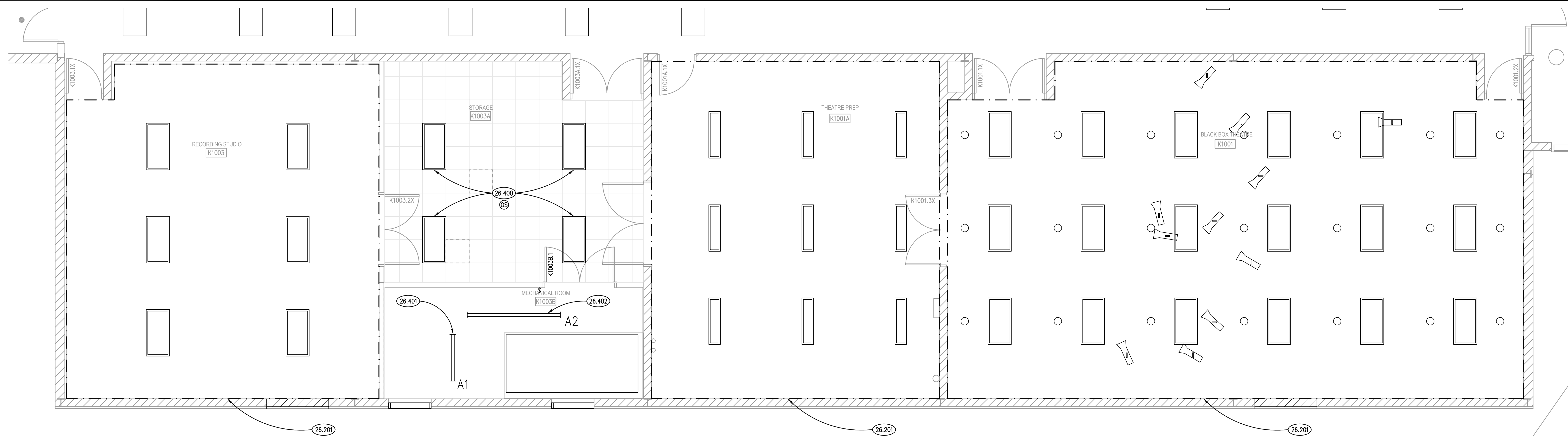
APPROVED MTK

SHEET TITLE

ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, SCHEDULES, & DETAILS

SHEET NUMBER

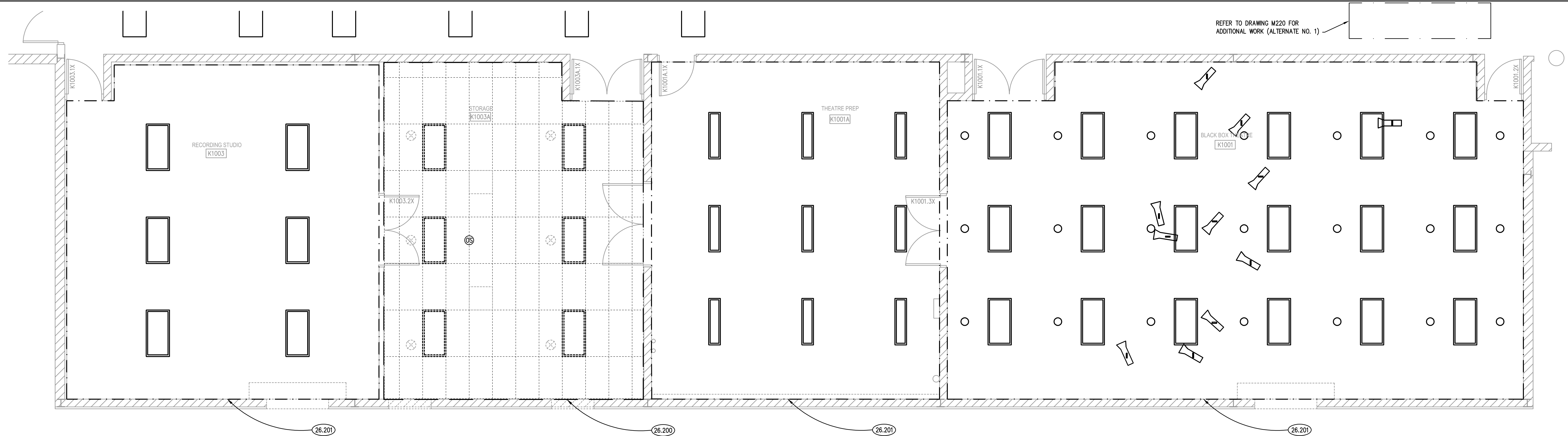
E000



PARTIAL SECOND FLOOR LIGHTING PLAN

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

3



PARTIAL SECOND FLOOR LIGHTING DEMOLITION PLAN

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

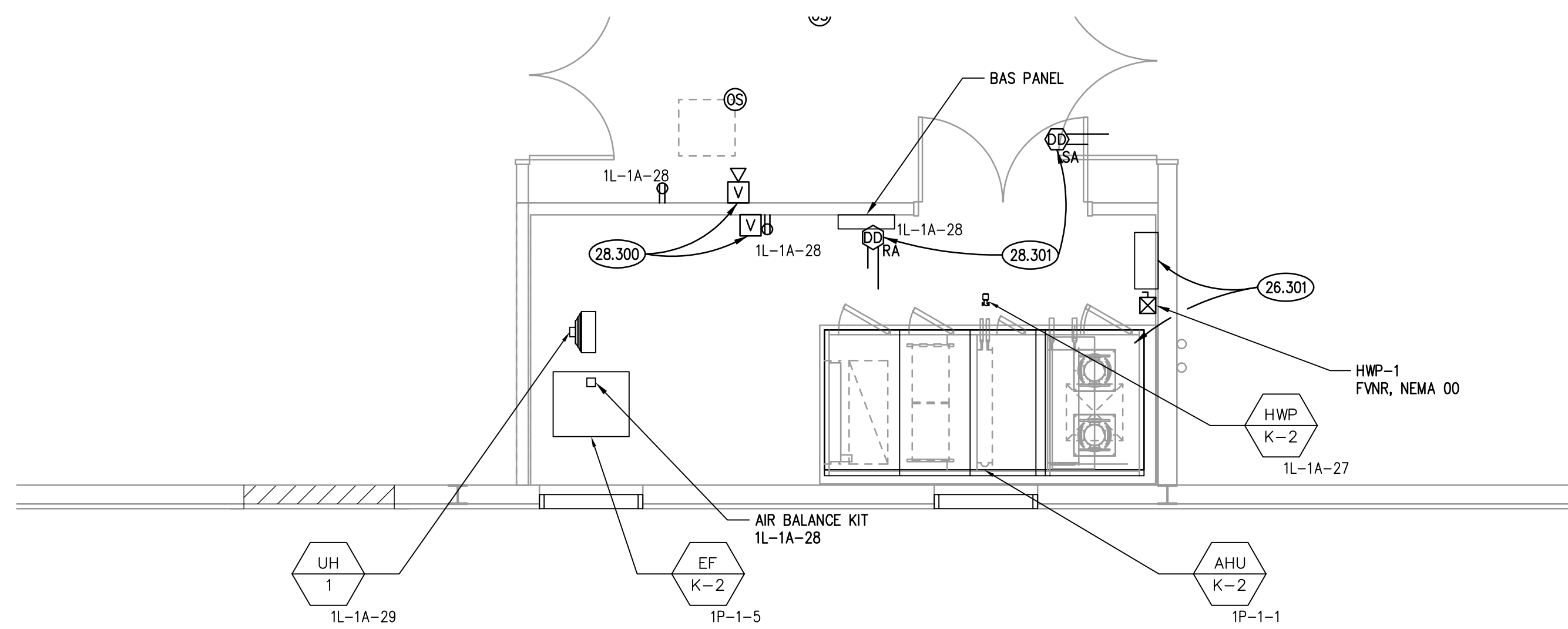
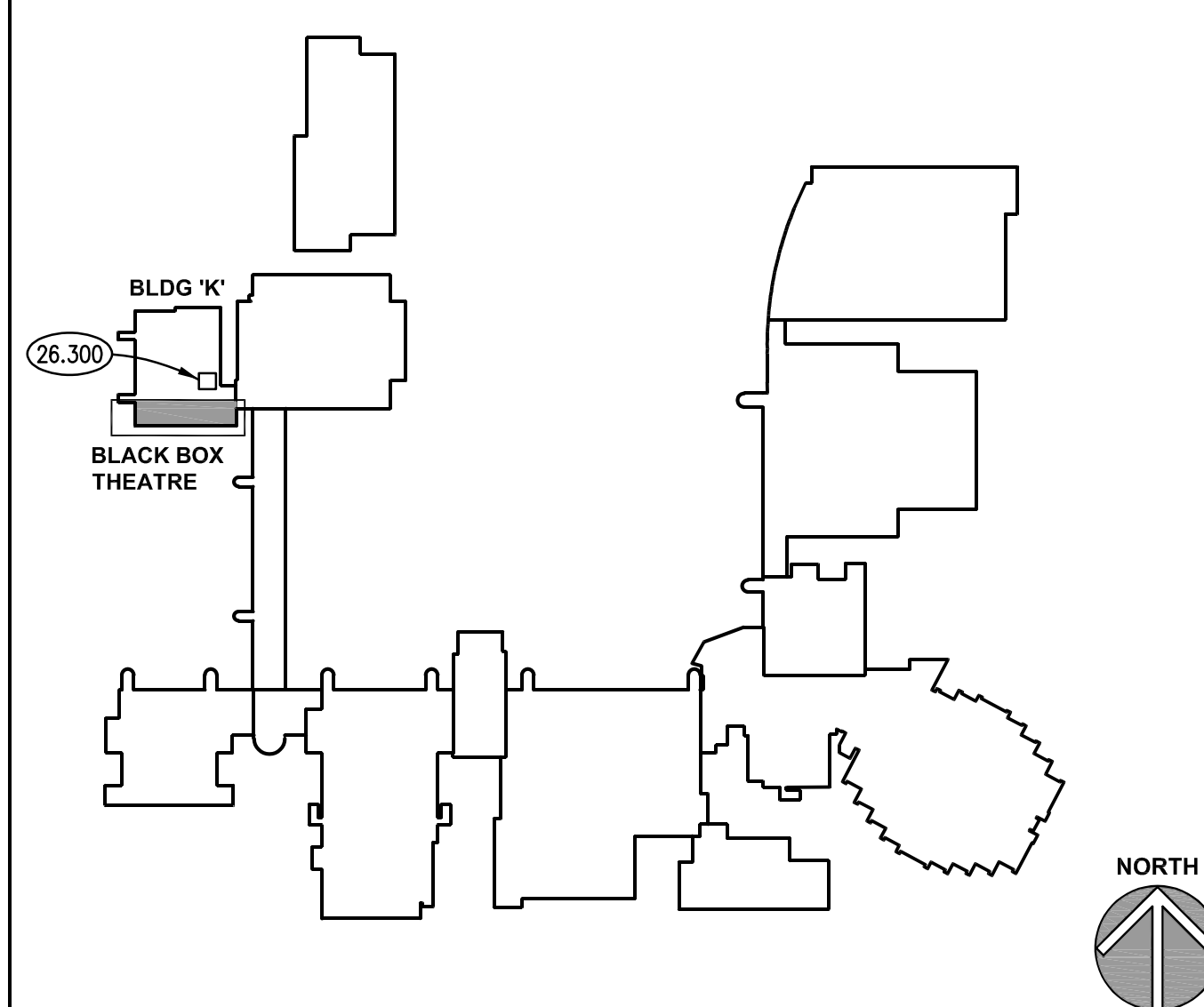
2

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 26.200 DISCONNECT AND PROTECT EXISTING 2'X4' LUMINAIRES IN THIS AREA. SALVAGE QTY. (4) LUMINAIRES FOR RE-USE, TURN OVER (2) TO OWNER'S ATTIC STOCK.
- 26.201 TEMPORARILY DISCONNECT, REMOVE AND, PROTECT EXISTING LUMINAIRES AND OTHER ELECTRICAL DEVICES AS NECESSARY FOR CONSTRUCTION OPERATIONS. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR TO ACCOMMODATE INSTALLATION OF MECHANICAL SYSTEM. RE-INSTALL FIXTURES UPON COMPLETION OF MECHANICAL INSTALLATION TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
- 26.202 DISCONNECT AND PROTECT EXISTING OCCUPANCY SENSORS, SPEAKERS AND ANY OTHER ELECTRICAL DEVICES IN CEILING AREA BEING REMOVED. RELOCATE AND REINSTALL IN NEW CEILING GRID. EXTEND ALL WIRING AS REQUIRED FOR NEW CEILING ELEVATION.
- 26.300 PANELBOARDS 1P-1 AND 1L-1A ARE LOCATED ON LOWER LEVEL IN MECHANICAL ROOM K0015. NOMINALLY 25' NORTH OF BLACK BOX THEATRE.
- 26.301 PROVIDE BRANCH CIRCUITRY TO AIR HANDLING UNIT REMOTE CONTROL PANEL. COORDINATE ALL FIELD WIRING REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS.
- 26.400 RE-INSTALL EXISTING 2'X4' LED LUMINAIRE IN NEW CEILING. EXTEND BRANCH CIRCUITRY AS NECESSARY TO LUMINAIRE. RE-USE EXISTING SWITCHING.
- 26.401 PROVIDE NEW LED STRIP LUMINAIRE. REFER TO LIGHTING FIXTURE SCHEDULE, SHEET E000. COORDINATE FINAL INSTALLATION LOCATION IN FIELD WITH DUCT WORK, PIPING, ETC. TO BE INSTALLED. EXTEND EXISTING STORAGE ROOM BRANCH CIRCUITRY TO MECHANICAL ROOM LUMINAIRES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 26.402 PROVIDE NEW LED STRIP LUMINAIRE. REFER TO LIGHTING FIXTURE SCHEDULE, SHEET E000. COORDINATE FINAL INSTALLATION LOCATION IN FIELD WITH DUCT WORK, PIPING, ETC. TO BE INSTALLED. LOCATE AND EXTEND EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT FROM ADJACENT CORRIDOR TO NEW LUMINAIRE AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE UL 924 RELAY TO BYPASS LOCAL SWITCH.
- 28.300 PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCE. LOCATE AND EXTEND EXISTING NOTIFICATION APPLIANCE CIRCUIT TO NEW DEVICES.
- 28.301 PROVIDE NEW DUCT MOUNTED SMOKE DETECTOR. LOCATE AND EXTEND EXISTING SIGNALLING LINE CIRCUITRY TO NEW DEVICES AS REQUIRED.

KEY PLAN



PARTIAL SECOND FLOOR POWER PLAN

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

1

ISSUED

08/12/25 BID & PERMIT DOCUMENTS

JOB NO. 24-292-1574
DRAWN ATR
CHECKED MTK
APPROVED MTK

SHEET TITLE
SECOND FLOOR
ELECTRICAL POWER
& LIGHTING PLANS

SHEET NUMBER

E320