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CODE INFORMATION

GOVERNING REGULATIONS	
Kentucky Building Code	KBC - 2007 Edition
PROJECT DESCRIPTION	
This Project encompasses the renovation of approximately 5,030 sf on the Third and Sixth Floors of the Dentistry Building at the University of Kentucky in order to renovate/expand the Pre-Clinical Simulation Lab D611. In Addition, the scope shall also include the relocation of the existing Student Wet Lab D503 and Ceramics Lab D624.	
BUILDING CLASSIFICATION	
Fire Protection, Detection, and Alarm Systems	
All code analysis is based upon work within a facility which is fully protected by an Approved Automatic Sprinkler System and an Approved Fire Alarm System.	
Use Group	
Kentucky Building Code (KBC)	B (Business)
	(Section 304.1)
Type of Construction	
Kentucky Building Code (KBC)	Type IA (Noncombustible)
	(Section 601)

UK UNIVERSITY OF KENTUCKY

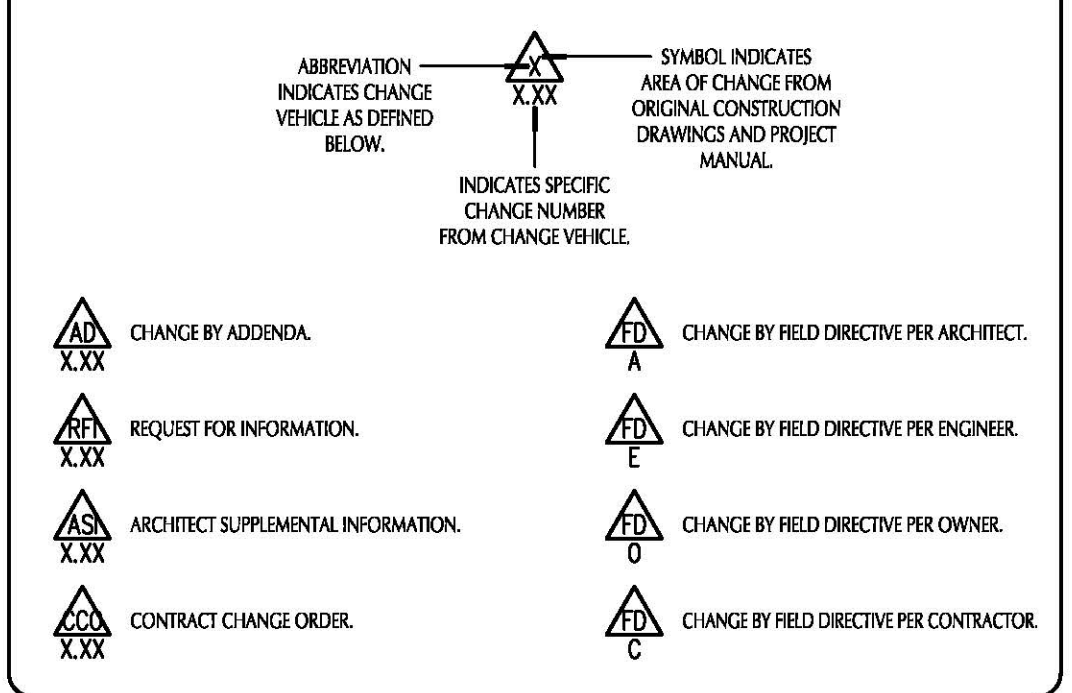
RENOVATE DENTISTRY CLASS LABS UNIVERSITY OF KENTUCKY

COLLEGE OF DENTISTRY
LEXINGTON, KENTUCKY 40536

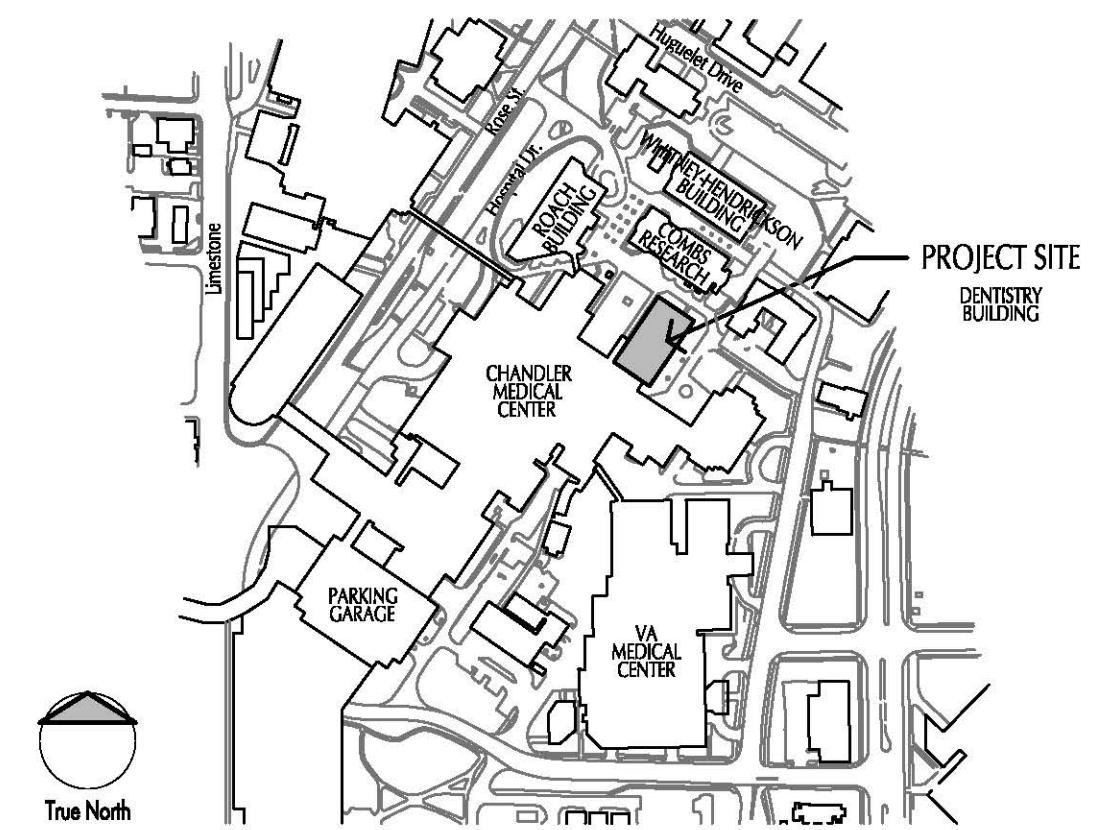
RECORD DRAWINGS

12 DECEMBER 2012 (AUGUST 2013)
SHA.UKY1206
CPMD PROJECT NUMBER: 2346.0

RECORD DOCUMENTS LEGEND



LOCATION PLAN



MECHANICAL/ELECTRICAL ENGINEERING

CMTA, Inc.

2365 Harrodsburg Road, Suite B400
Lexington, KY 40504
859.253.0892
859.231.8357 fax

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RECORD DRAWINGS

RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY

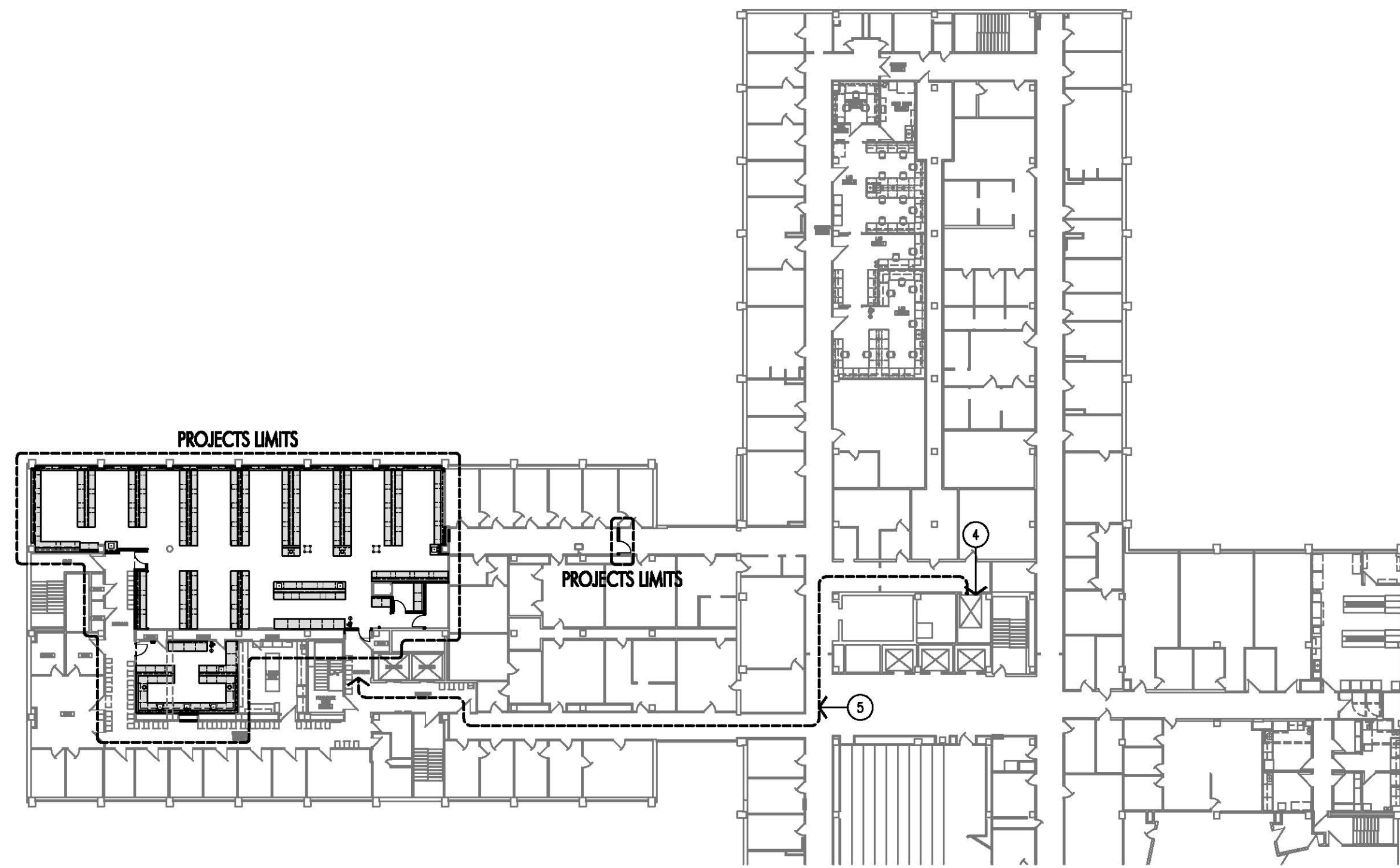
GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASING WITH OWNER. THE PHASING INFORMATION CONTAINED HEREIN IS INDICATED FOR SCHEMATIC PURPOSES ONLY. EXACT FINAL CONFIGURATION OF ALL PHASING SHALL BE COORDINATED BETWEEN OWNER, ARCHITECT AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL ABOVE CEILING WORK OVER OCCUPIED AREAS OUTSIDE PROJECT AREA SHALL BE PERFORMED ON WEEKENDS BETWEEN THE HOURS OF 6:00PM ON FRIDAY AND 12:00AM ON SUNDAY. FINAL COORDINATION WITH OWNER SHALL BE REQUIRED.
- CONSTRUCTION DURATION OF PHASES NOTED HEREIN ARE AS FOLLOWS:

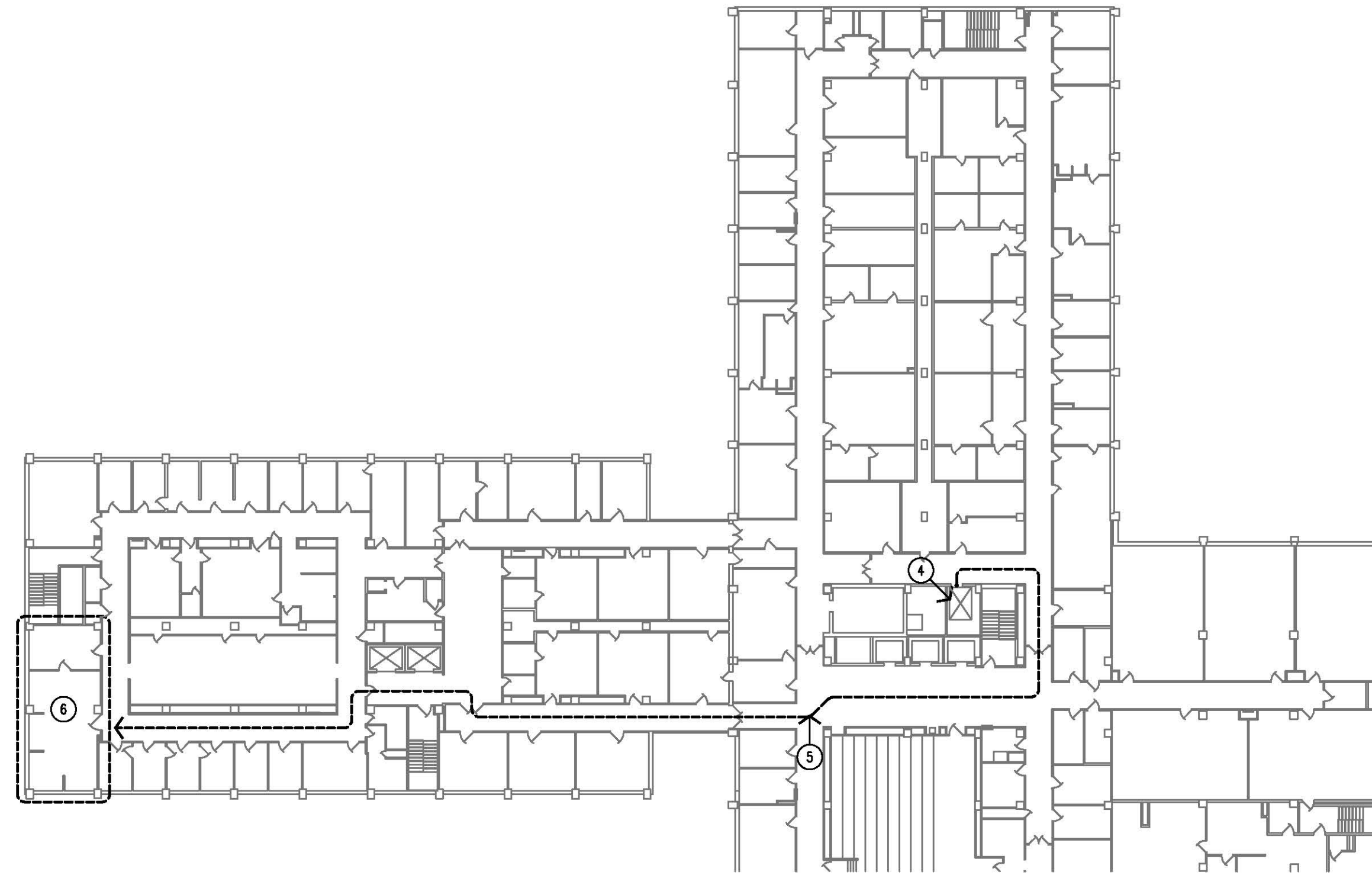
PHASE 1	
START	18 FEBRUARY 2013
SUBSTANTIAL COMPLETION	11 APRIL 2013
FINAL COMPLETION	11 MAY 2013
PHASE 2	
START	15 APRIL 2013
SUBSTANTIAL COMPLETION	30 MAY 2013
FINAL COMPLETION	30 JUNE 2013
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START	03 JUNE 2013
SUBSTANTIAL COMPLETION	05 AUGUST 2013
FINAL COMPLETION	05 SEPTEMBER 2013
AIR HANDLING UNIT REPLACEMENT	
START	(5:00PM) 03 JULY 2013
COMPLETION	(2:00AM) 08 JULY 2013
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PHASING NOTES

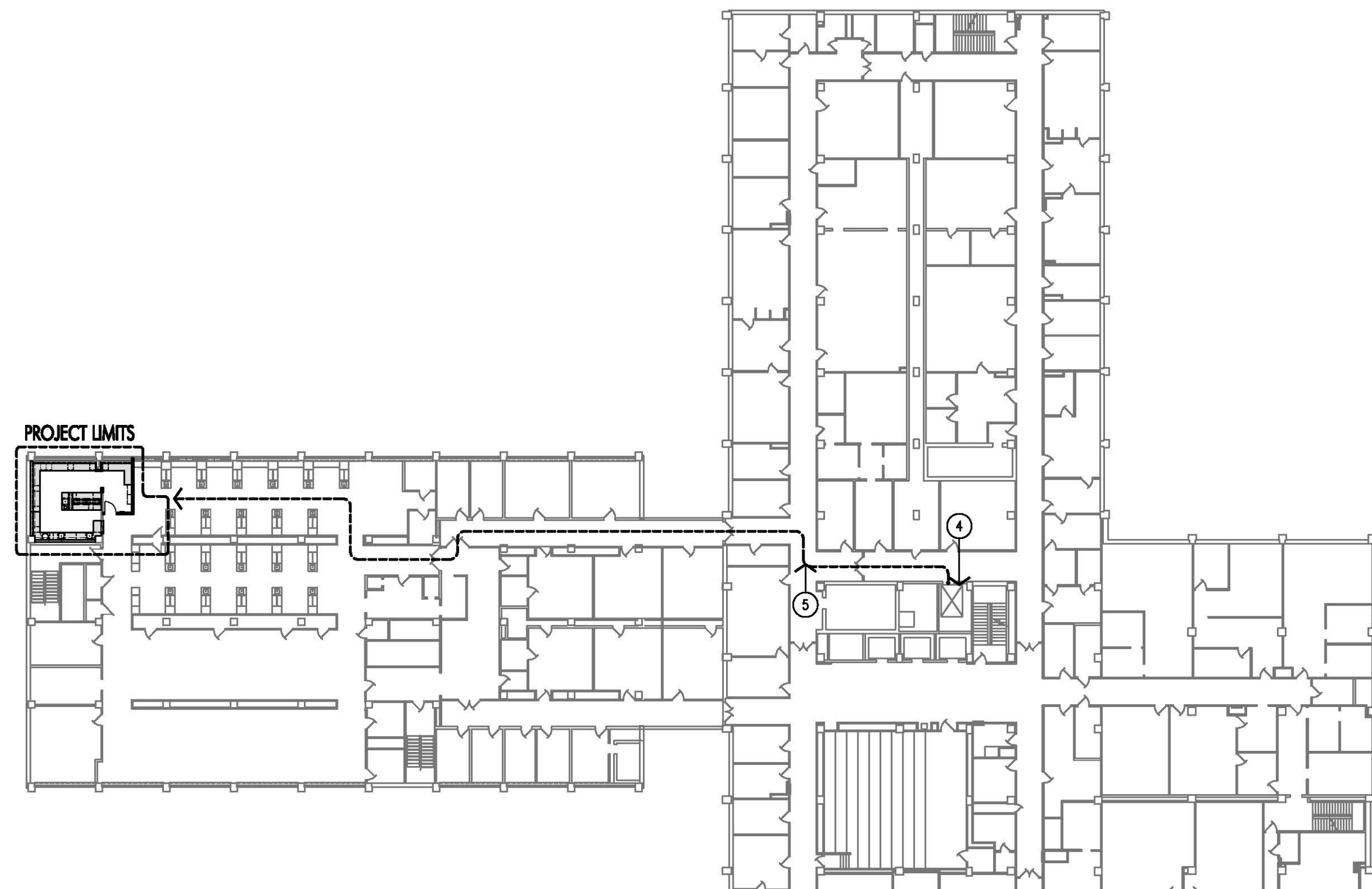
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- APPROXIMATE LOCATION OF CRANE ON GROUND LEVEL ABOVE. NOTE THAT CRANE MUST BE SET OUTSIDE FOOTPRINT OF BASEMENT. COORDINATE EXACT LOCATION WITH OWNER.



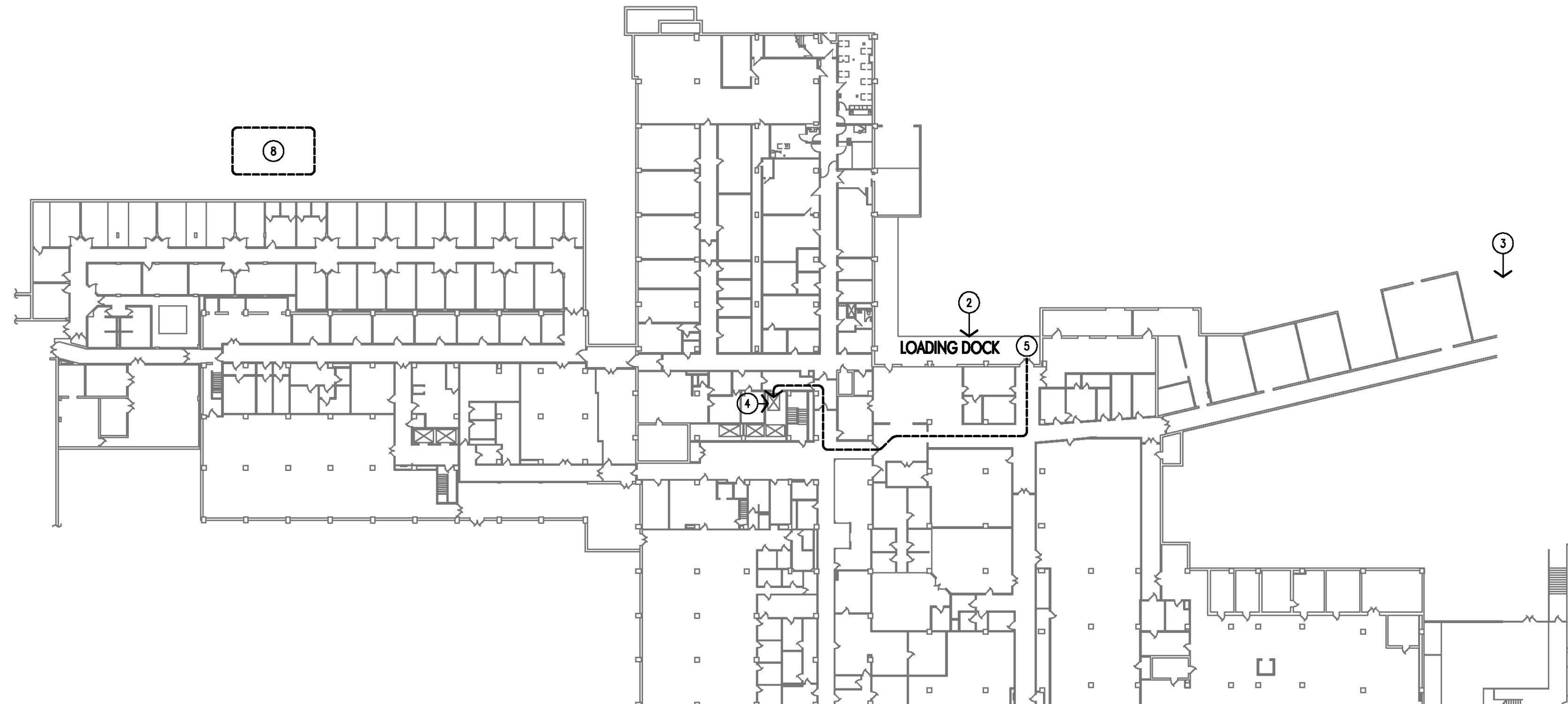
04
A0.0
PARTIAL SIXTH FLOOR PLAN
1" = 30'-0"
Plan North True North



03
A0.0
PARTIAL FIFTH FLOOR PLAN
1" = 30'-0"
Plan North True North



02
A0.0
PARTIAL THIRD FLOOR PLAN
1" = 30'-0"
Plan North True North

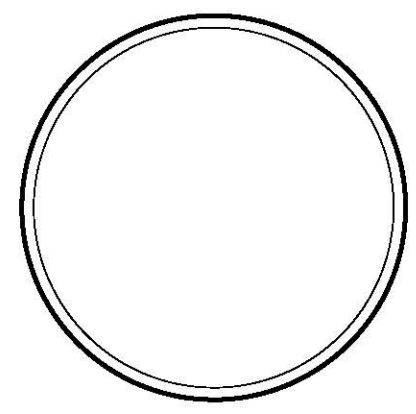
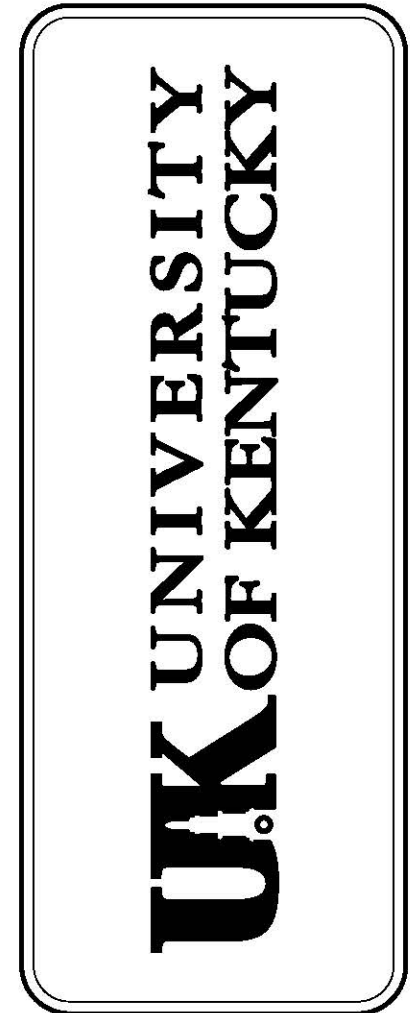


01
A0.0
PARTIAL BASEMENT FLOOR PLAN
1" = 40'-0"
Plan North True North



STENGENL-HILL
ARCHITECTURE

613 WEST MAIN STREET
LOUISVILLE, KENTUCKY 40202
502.893.1875
502.893.1876 fax



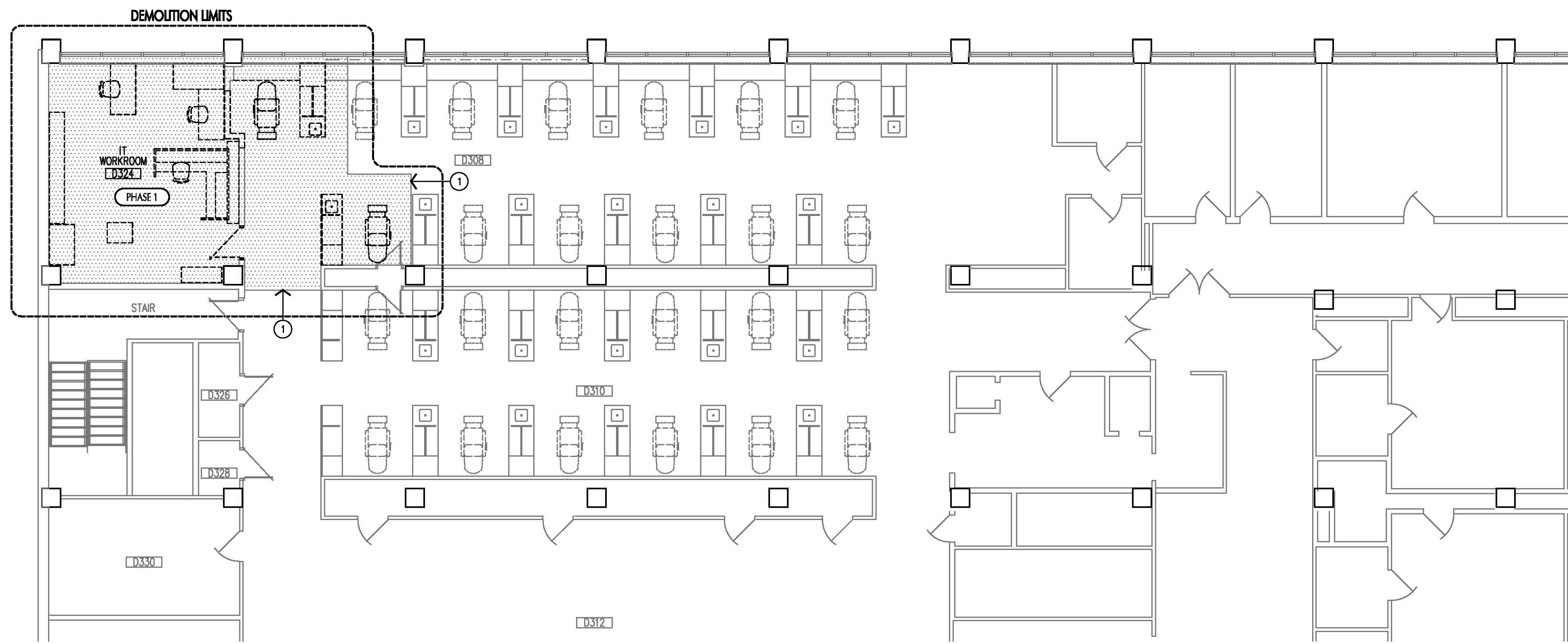
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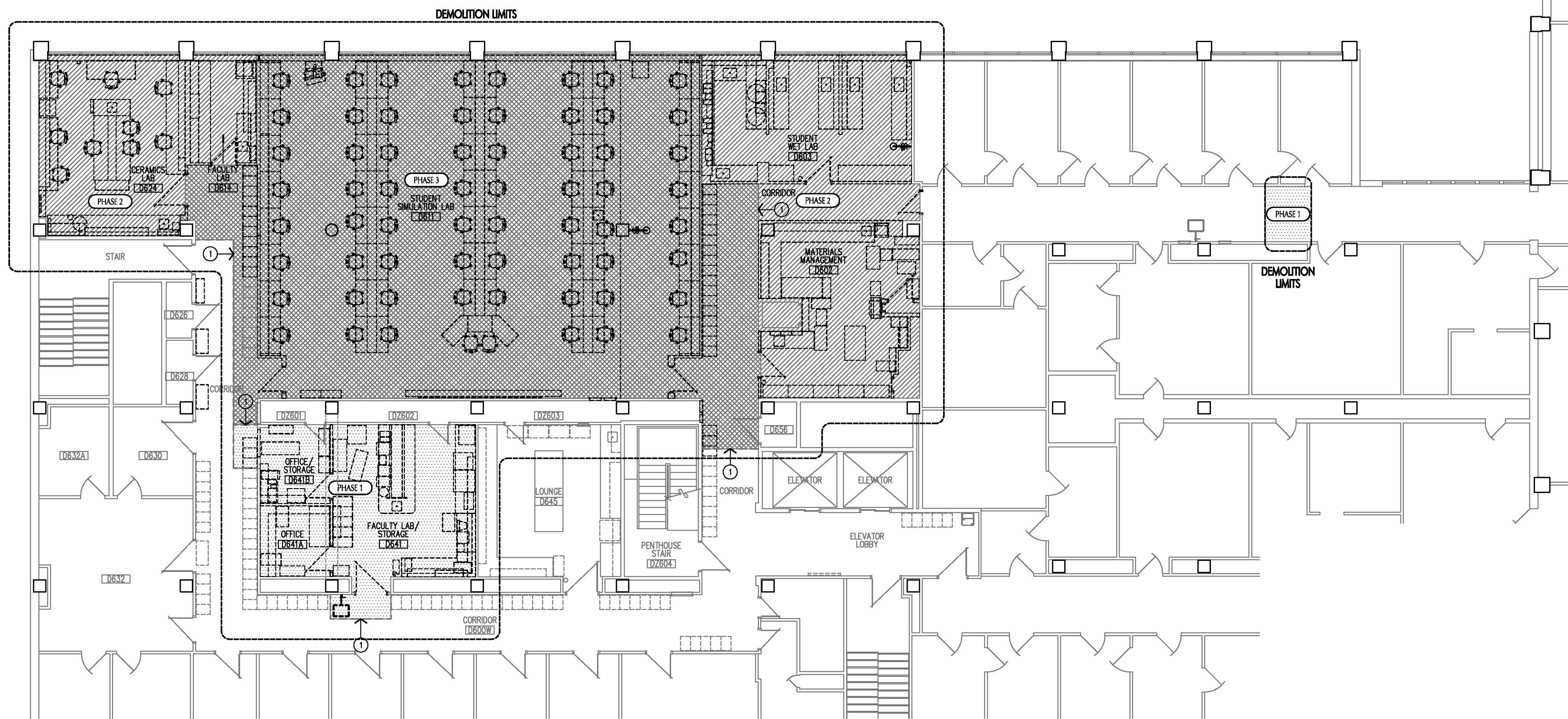
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02 PARTIAL THIRD FLOOR
PHASING PLAN - DEMOLITION
A0.1 1/8" = 1'-0"
Plan North True North



01 PARTIAL SIXTH FLOOR
PHASING PLAN - DEMOLITION
A0.1 1/8" = 1'-0"
Plan North True North

GENERAL NOTES

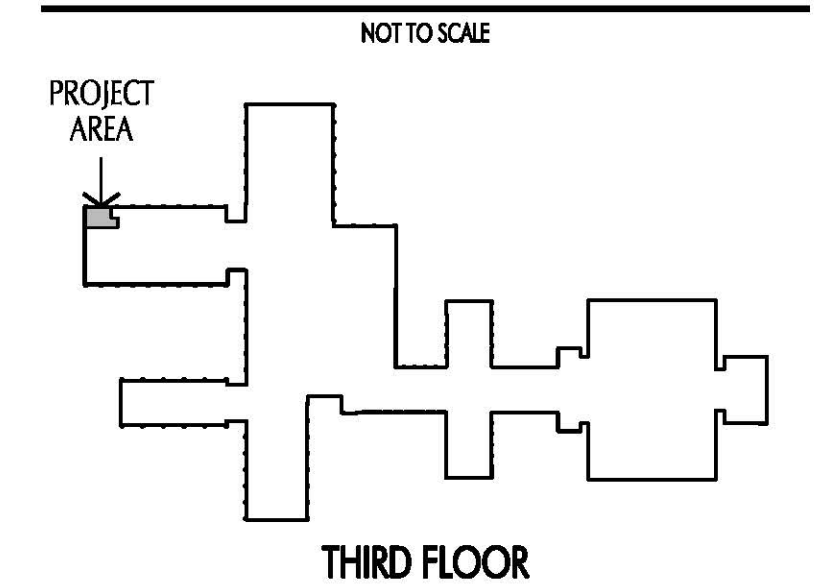
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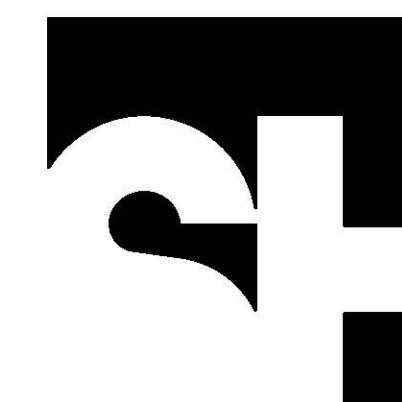
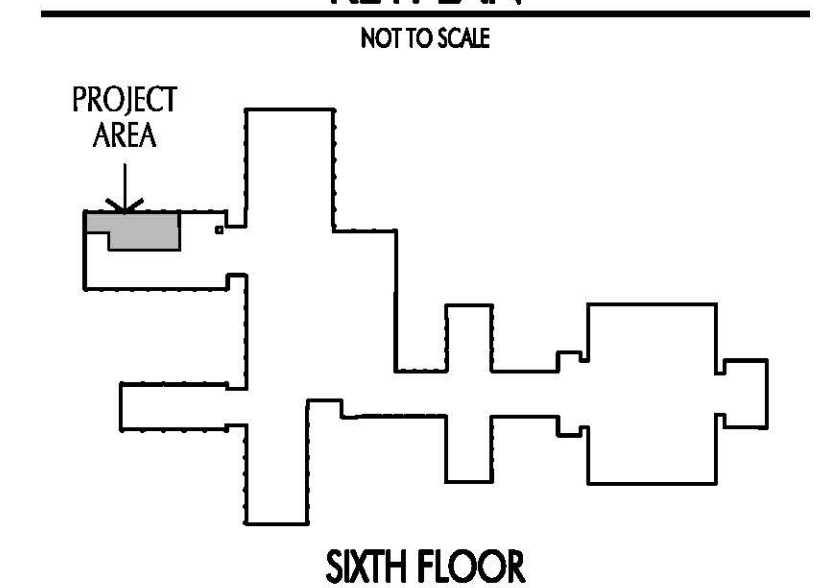
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KEYPLAN



KEYPLAN



STENGENL-HILL
ARCHITECTURE

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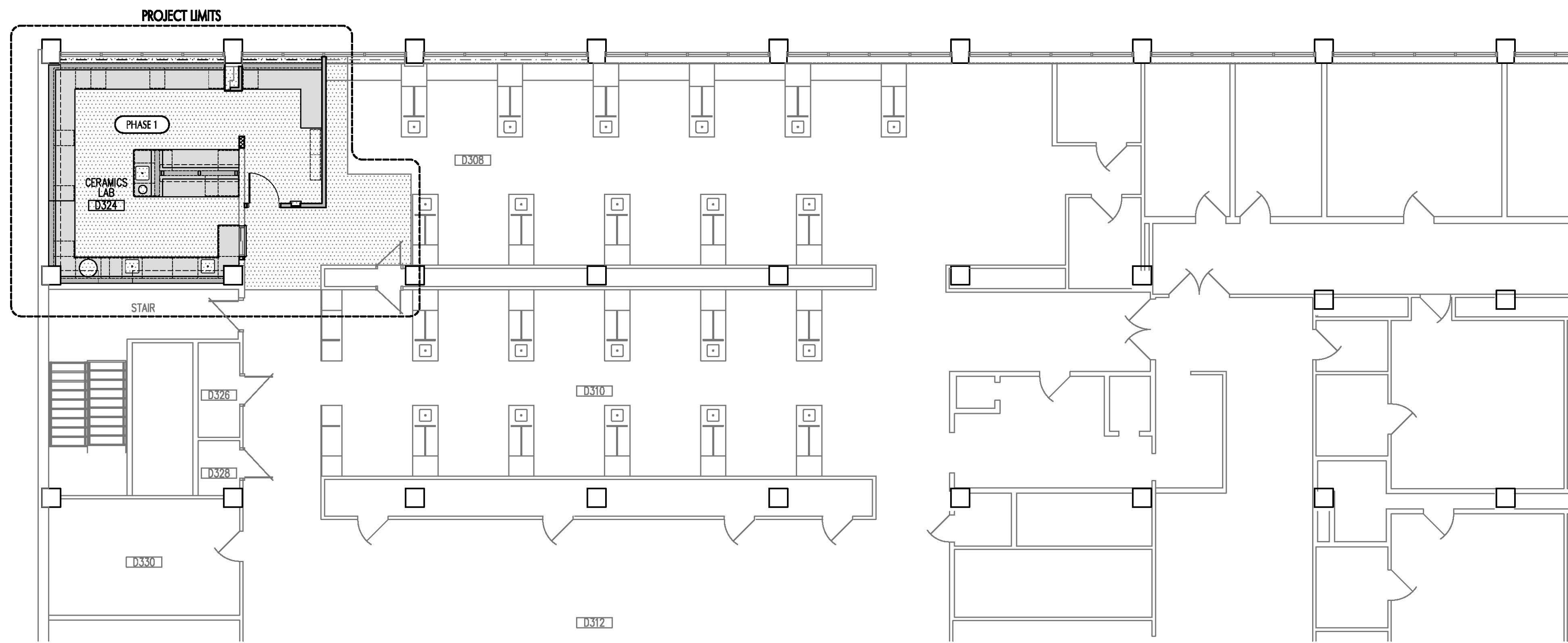
PARTIAL PHASING FLOOR PLANS - DEMOLITION
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

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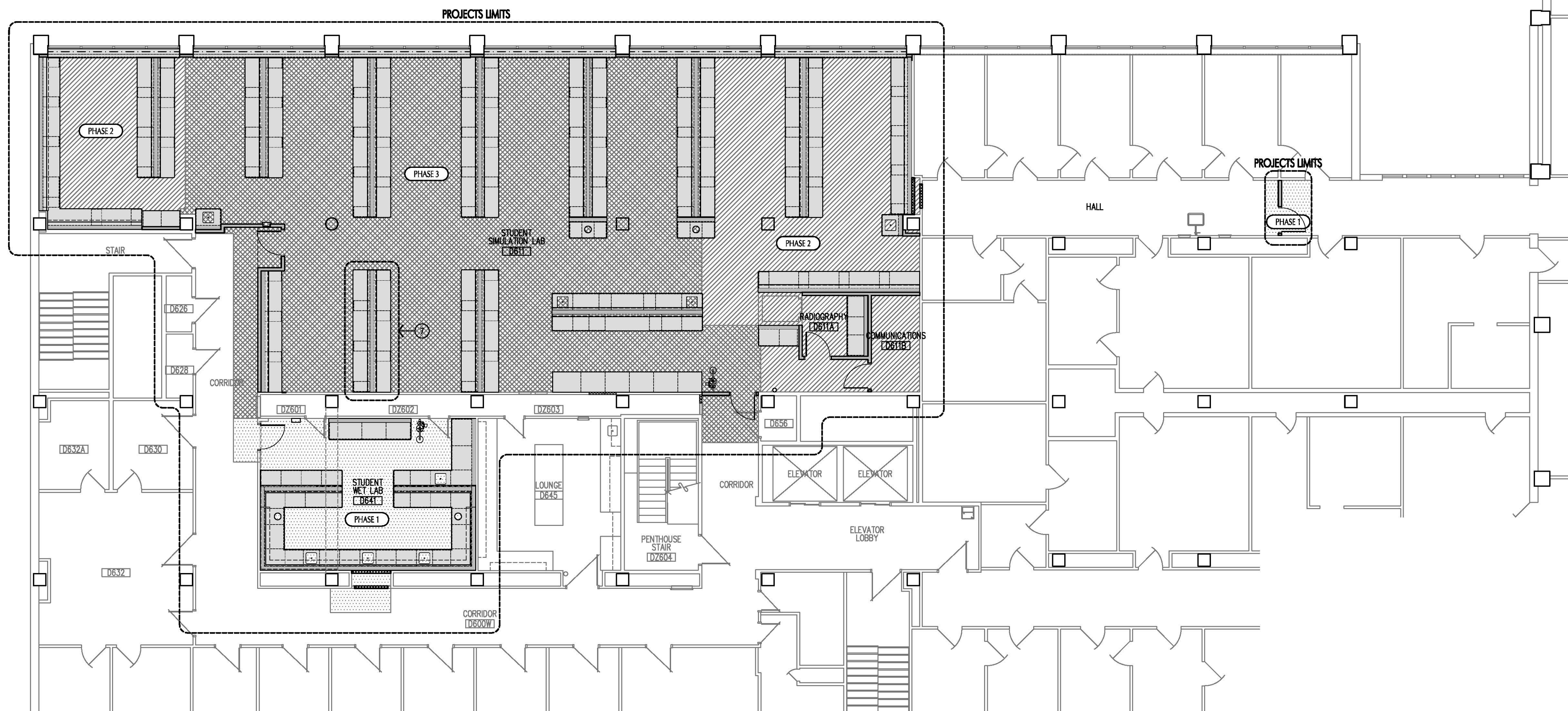
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02 PARTIAL THIRD FLOOR
PHASING PLAN - NEW WORK
A0.2 1/8" = 1'-0"
Plan North True North



01 PARTIAL SIXTH FLOOR
PHASING PLAN - NEW WORK
A0.2 1/8" = 1'-0"
Plan North True North

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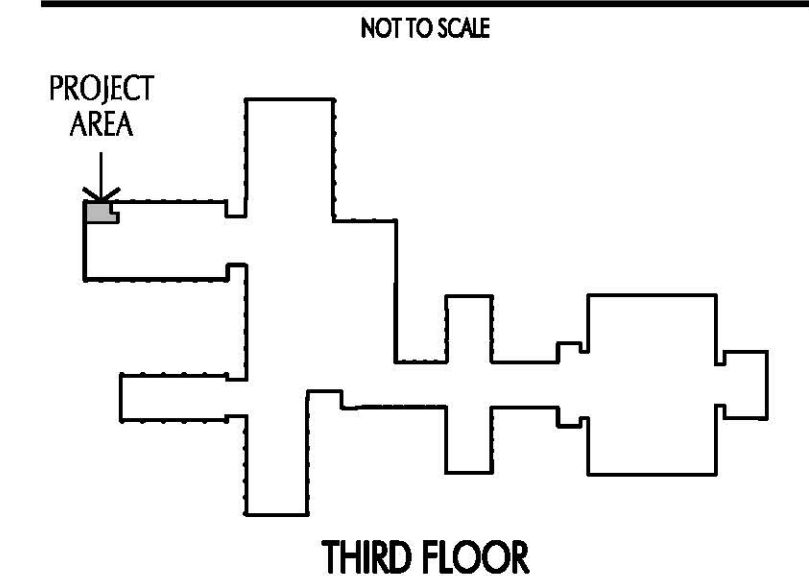
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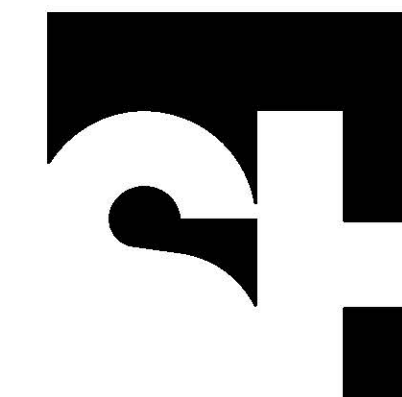
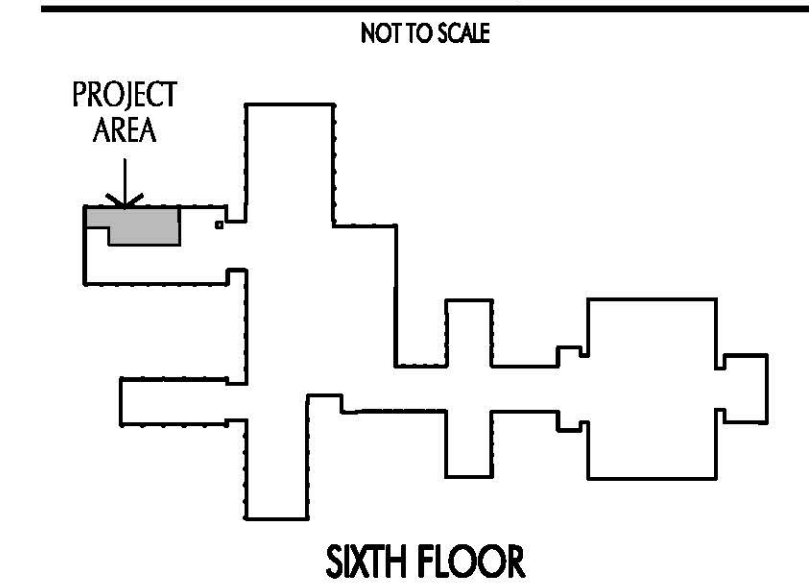
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KEYPLAN



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ARCHITECTURE

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LOUISVILLE, KENTUCKY 40202

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PARTIAL PHASING FLOOR PLANS - NEW WORK
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

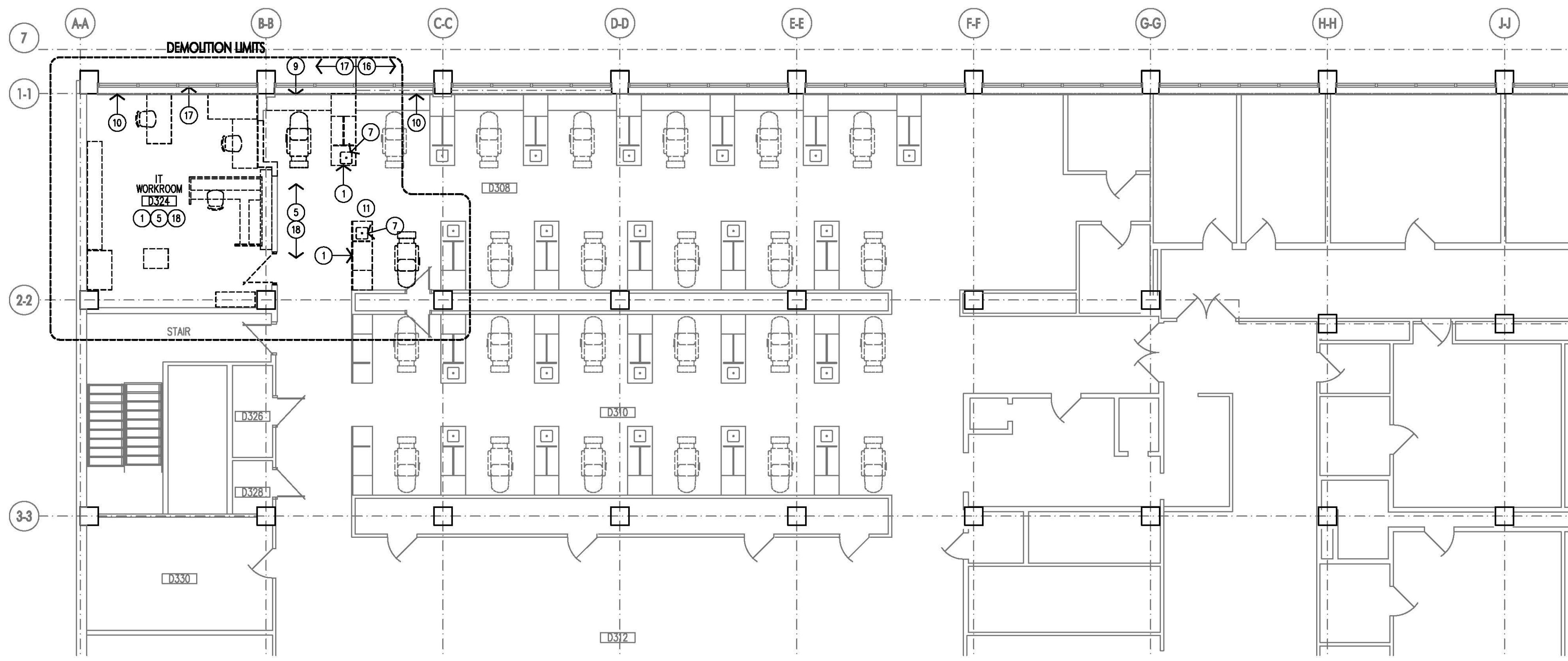
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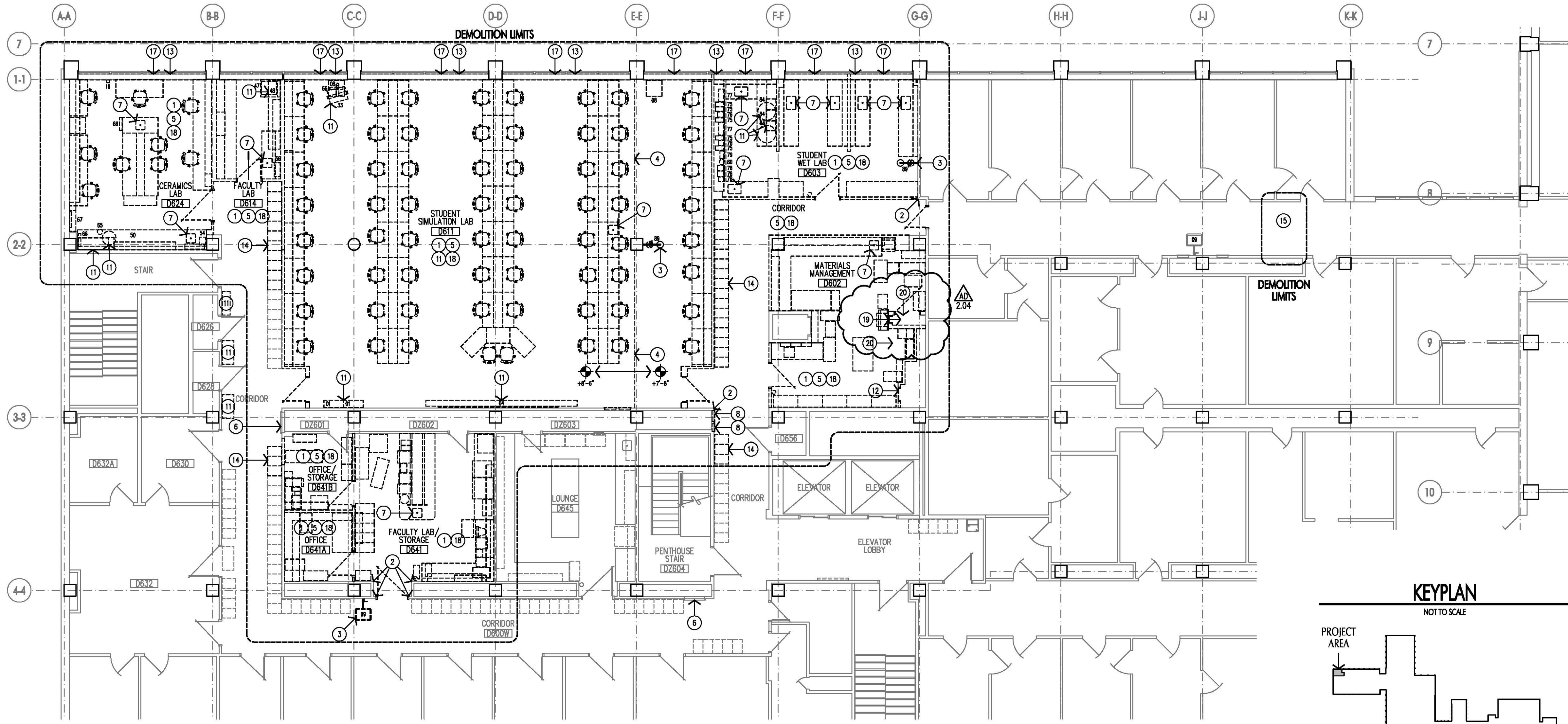
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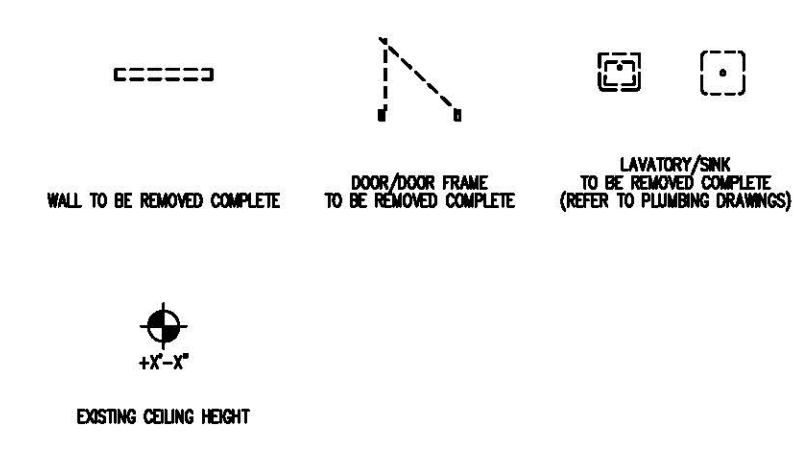


02
PARTIAL THIRD FLOOR
DEMOLITION PLAN
A1.0
1/8" = 1'-0"
Plan North True North



01
PARTIAL SIXTH FLOOR
DEMOLITION PLAN
A1.0
1/8" = 1'-0"
Plan North True North

DEMOLITION LEGEND



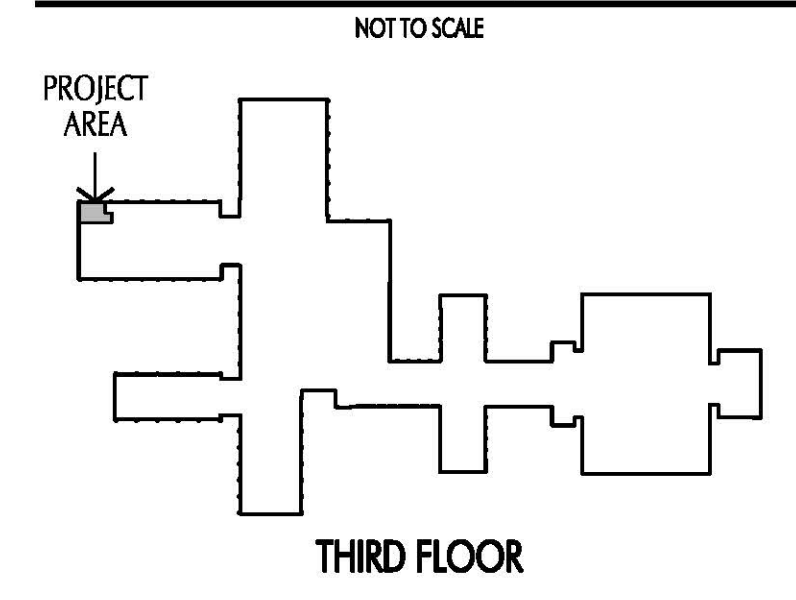
GENERAL NOTES

- BOLD DASHED LINES INDICATE ITEMS TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC INSTRUCTIONS.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
- INFORMATION REGARDING MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS TO BE REMOVED HAS BEEN INCLUDED FOR REFERENCE ONLY. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR COMPLETE INSTRUCTIONS ON THE REMOVAL OF THESE ITEMS.
- EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS MUST CONTINUE TO OPERATE AS REQUIRED TO SATISFY OWNER THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL ADJACENT SURFACES TO THE AREAS OF DEMOLITION WHICH ARE SCHEDULED TO REMAIN AND ARE IN ANY MANNER AFFECTED BY THE WORK SHALL BE PATCHED AS REQUIRED TO MATCH THE ADJACENT FINISHED SURFACES.
- CONTRACTOR SHALL REMOVE PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING, AND/OR ELECTRICAL ITEMS AS INDICATED ON MEP DRAWINGS. ALL SURFACES AFFECTED SHALL BE PATCHED UPON COMPLETION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK AS REQUIRED TO MATCH ADJACENT FINISHED SURFACES.
- NOISE AND DUST LEVELS SHALL BE KEPT TO A MINIMUM TO AVOID DISTURBANCES TO ONGOING ACTIVITIES IN ADJACENT AREAS.
- ALL LOCATIONS OF DUCTWORK AND PIPING REMOVAL THROUGH EXISTING WALL CONSTRUCTION SCHEDULED TO REMAIN SHALL BE PATCHED WITH MATERIALS IDENTICAL TO ADJACENT CONSTRUCTION AS REQUIRED FOR UNIFORM TRANSITIONS TO ADJACENT FINISHED SURFACES.
- CONTRACTOR SHALL PROVIDE ALL TEMPORARY PARTITIONS AND TEMPORARY DOORS REQUIRED TO SECURE PROJECT AREAS AT ALL TIMES AND AS REQUIRED TO AVOID MIGRATION OF DUST INTO ADJACENT OCCUPIED AREAS.
- CUTTING OF EXISTING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK FOR WHICH THE CUTTING IS REQUIRED. PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK FOR WHICH THE CUTTING AND PATCHING IS REQUIRED AND SHALL BE PERFORMED BY A PERSON OR PERSONS SKILLED IN THE TRADE INVOLVED.
- ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE REGULATORY AUTHORITY HAVING JURISDICTION.
- UNUSED FASTENERS SHALL BE REMOVED FROM CMU WALLS, REPAIRED AND PATCHED WITH NON-SHRINK GROUT.
- EXISTING FLOORING & MASTIX CONTAINS ASBESTOS. OWNER IS RESPONSIBLE FOR ABATEMENT AND FLOOR TILE DEMOLITION.

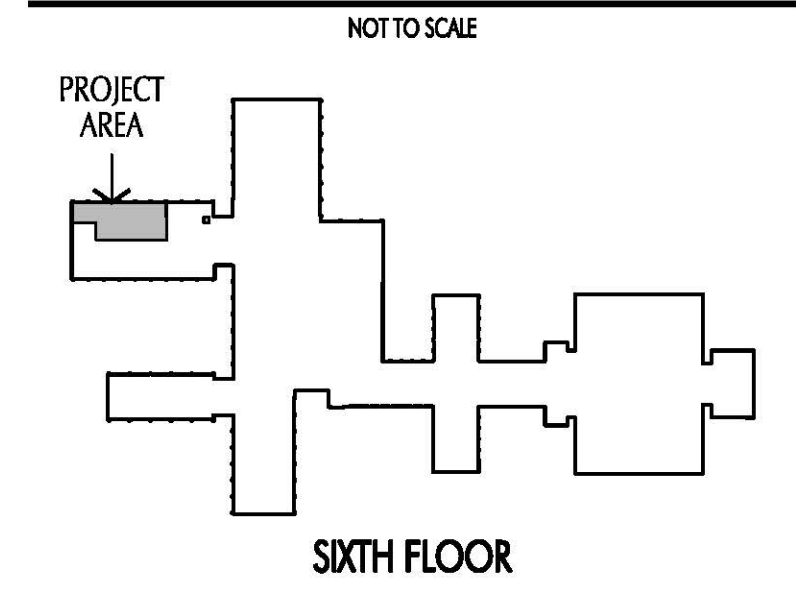
DEMOLITION NOTES

- REMOVE EXISTING BUILT-IN CASEWORK COMPLETE. PREPARE REMAINING FLOOR AND WALL SURFACES AS REQUIRED FOR APPLICATION OF NEW FINISHES.
- REMOVE EXISTING ADJACENT 4" NOMINAL CMU AS REQUIRED TO PREPARE FOR INSTALLATION OF NEW INFILL 4" NOMINAL CMU TO RESULT IN COHESIVE RUNNING BOND APPEARANCE.
- REMOVE EXISTING EMERGENCY SHOWER. (REFERENCE PLUMBING DRAWINGS)
- DASHED LINE INDICATES CHANGE OF EXISTING CEILING HEIGHT.
- REMOVE EXISTING CEILING TILE AND GRID COMPLETE TO DEMOLITION LIMITS INDICATED.
- EXISTING FIRE VALVE CABINET TO REMAIN.
- REMOVE EXISTING PLUMBING FIXTURE(S) (REFER TO PLUMBING DRAWINGS).
- REMOVE EXISTING ELECTRICAL PANEL. PREPARE AFFECTED SURFACES FOR INSTALLATION OF NEW ELECTRICAL PANEL. (REFER TO ELECTRICAL DRAWINGS)
- REMOVE EXISTING LOW CASEWORK UTILITY CHASE. (REFER TO ELECTRICAL DRAWINGS)
- EXISTING CONSTRUCTION TO REMAIN.
- EXISTING EQUIPMENT TO BE REMOVED AND RETURNED TO OWNER (REFER TO MEP DRAWINGS REGARDING ANY UTILITIES THAT MAY BE REQUIRED TO BE REMOVED).
- EXISTING PNEUMATIC TUBE STATION TO BE REMOVED COMPLETE. PROTECT CHASE AND ADJACENT AREAS DURING DEMOLITION.
- REMOVE EXISTING WINDOW SILL. PREPARE WINDOW SYSTEM & AFFECTED SURFACES FOR INSTALLATION OF NEW SOLID SURFACE SILL. (REFER TO ARCHITECTURAL FINISH PLAN)
- REMOVE AND RELOCATE EXISTING LOCKERS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. EXACT LOCATIONS OF RELOCATION TO BE DETERMINED BY OWNER/ARCHITECT.
- REMOVE EXISTING CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION. PREPARE AFFECTED CEILING AS REQUIRED FOR NEW, MATCHING CEILING SYSTEM. (REFER TO ARCHITECTURAL FINISH PLAN)
- EXISTING WINDOW TREATMENT TO REMAIN.
- EXISTING WINDOW TREATMENT TO BE REMOVED COMPLETE.
- EXISTING VINYL COMPOSITION TILE AND RUBBER BASE TO BE REMOVED AS REQUIRED FOR NEW FLOOR EXTENTS. PREPARE REMAINING FLOOR AND WALL SURFACES AS REQUIRED FOR APPLICATION OF NEW FINISHES. (REFER TO ARCHITECTURAL FINISH PLAN)
- REMOVE EXISTING DUMPWATER SYSTEM COMPLETE WITHIN PROJECT LIMITS.
- EXISTING FLOOR OPENING.

KEYPLAN



KEYPLAN



613 WEST MAIN STREET
LOUISVILLE, KENTUCKY 40202
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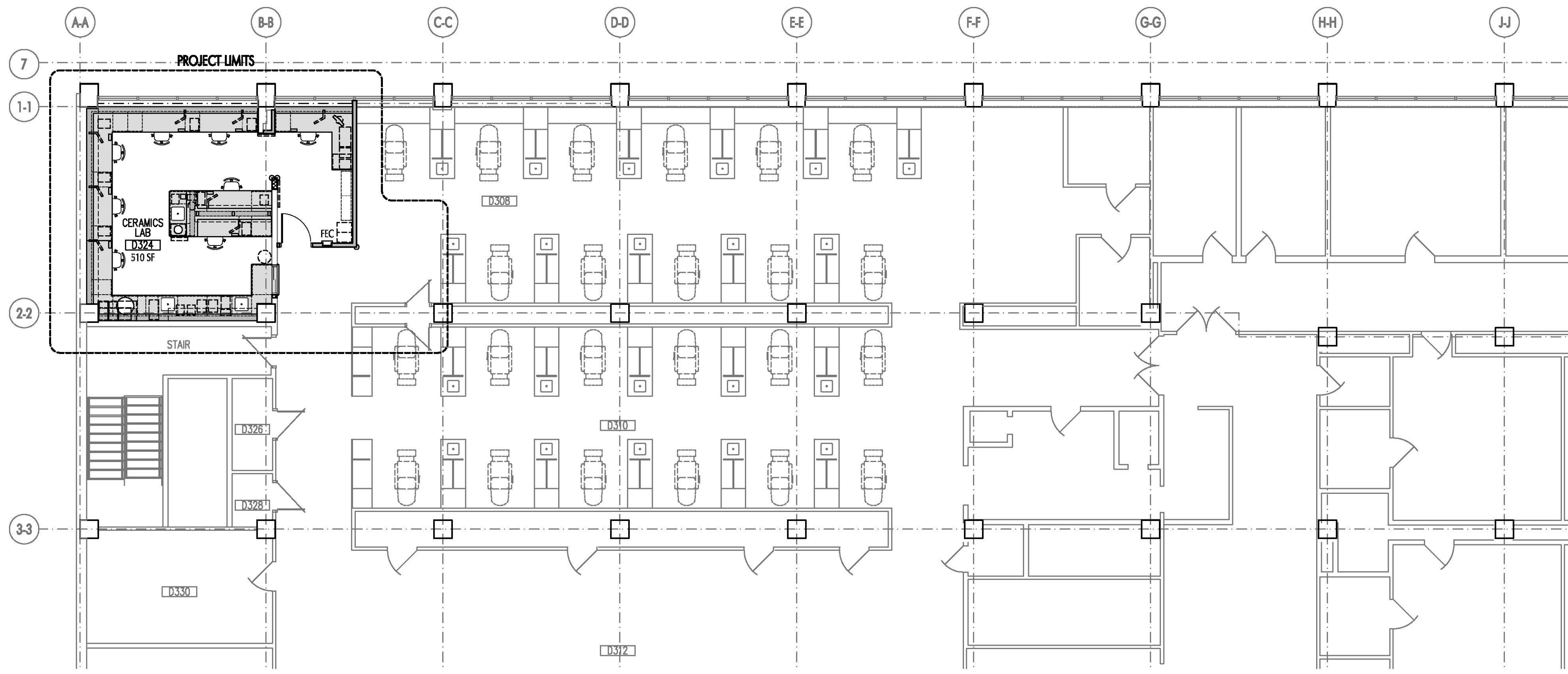
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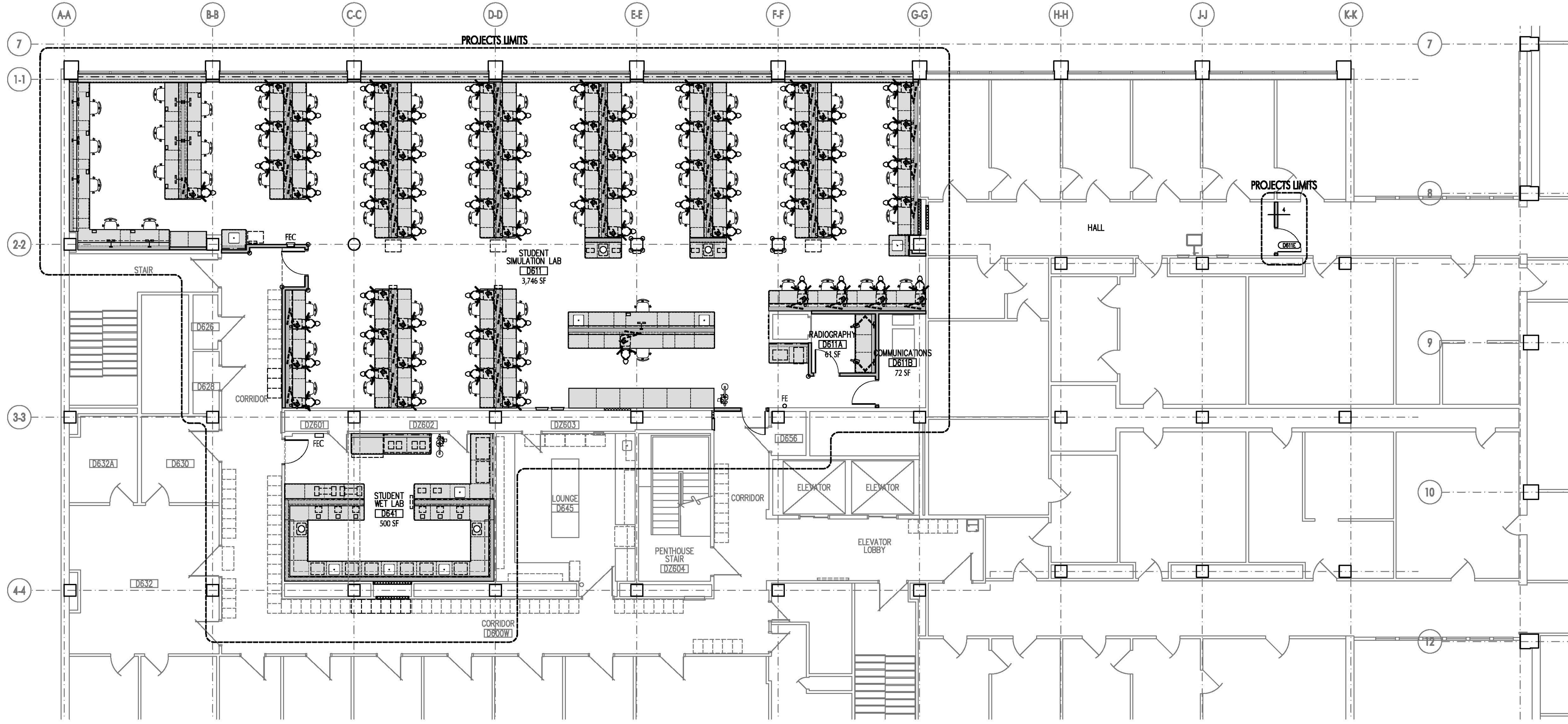
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RECORD DRAWINGS

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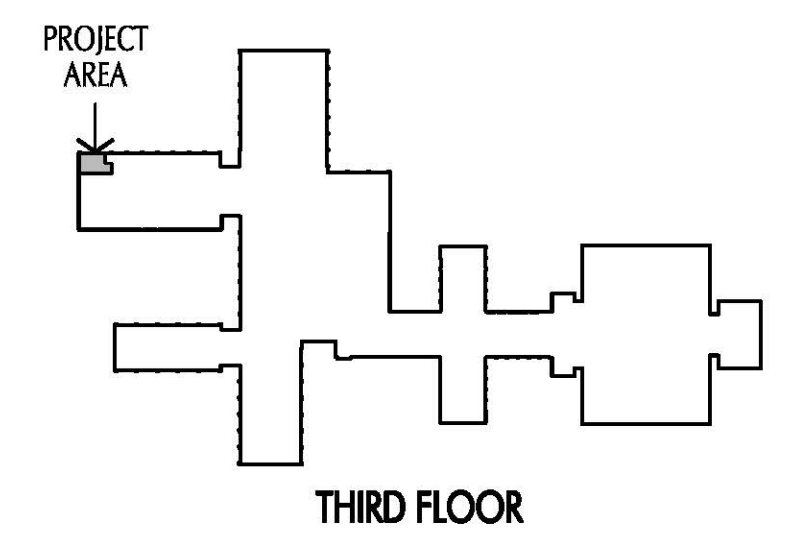


02
A2.0
PARTIAL
THIRD FLOOR PLAN
1/8" = 1'-0"
Plan North True North



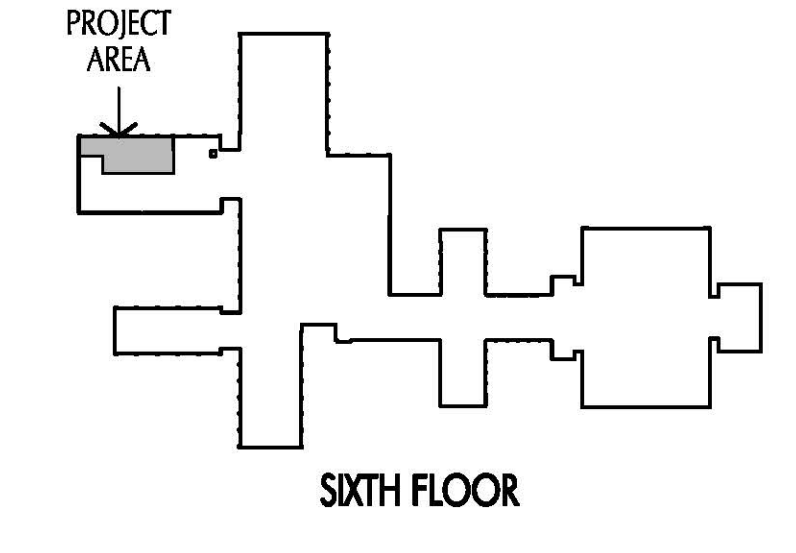
01
A2.0
PARTIAL
SIXTH FLOOR PLAN
1/8" = 1'-0"
Plan North True North

KEYPLAN
NOT TO SCALE



THIRD FLOOR

KEYPLAN
NOT TO SCALE



SIXTH FLOOR

REFERENCE PARTIAL FLOOR PLANS SHEET A2.2 FOR GENERAL NOTES AND PLAN NOTES

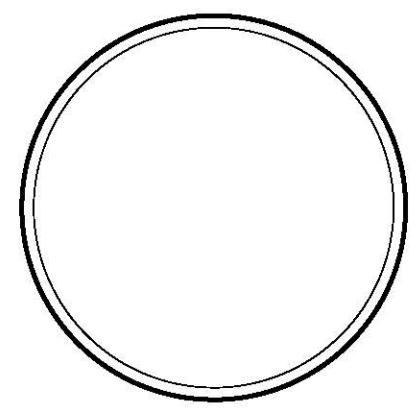
EQUIPMENT SCHEDULE FOR REFERENCE

NUMBER	EQUIPMENT ITEM	REMARKS
01	Display Case, Wood and Sliding Glass	...
02	Coat Hook, Metal (12)	...
03	Rolling Cart, Plastic	...
04	Presentation Screen - Pull Down	...
05	Projector, Table Top	...
06	Projector, Ceiling Mounted	...
07	Drill Lubricators	O.F.O.I.
08	Trash can (Size Varies)	...
09	Shower, Hazardous	...
10	Bin-Cart	...
11	Paper Towel Dispenser	...
12	Telephone	...
13	Fire Extinguisher	...
14	Coat Hook, Small (3-Prong)	...
15	Paper Towel Dispenser, Automatic	...
16	Pencil Sharpener	...
17	Computer, Desktop	O.F.O.I.
18	Clock, Wall Mounted	O.F.O.I.
19	Handheld Light Curing Gun	O.F.O.I.
20	Stationary Light Curing Cabinet	O.F.O.I.
21	Vacuum Accumulator Container	...
22	Vacuum Motor	...
23	Task Light	O.F.O.I.
24	Air and Gas Hose Valves	...
25	Metal Basket, Under Counter	...
26	Handpiece Control System	O.F.O.I.
27	Vacuum Bottle	O.F.O.I.
28	Drain Tube	...
29	Articulating Third Hand	...
30	Sharps	O.F.O.I.
31	Fire Box	O.F.O.I.
32	Wp-L-Bug	O.F.O.I.
33	Television, Ceiling Mounted	O.F.O.I.
34	Hand Piece Control System Foot Control	O.F.O.I.
35	10" Pneumatic Curing Pot	O.F.O.I.
36	Light Curing Cabinet	O.F.O.I.
37	Standard Scale	O.F.O.I.
38	Double Sided Grinder/Polisher	O.F.O.I.
39	Grinder/Polisher Enclosure Hood	O.F.O.I.
40	Compressor Motor	O.F.O.I.
41	Electrical Hand Tool	O.F.O.I.
42	Single Pot Coffee Maker	O.F.O.I.
43	Vacuum Motor	O.F.O.I.
44	Microscope	O.F.O.I.
45	Autopress	O.F.O.I.
46	Small Flame Cabinet	O.F.O.I.
47	Rona In-Fire HTC	O.F.O.I.
48	Hood Vent	O.F.C.I.
49	Small Trash Can	...
50	Microsection Cabinet	O.F.O.I.
51	Heat Press Mold	O.F.O.I.
52	Benco Dental Optisonic	O.F.O.I.
53	Milling Machine	O.F.O.I.
54	Grinding Wheel	O.F.O.I.
55	Oil Tank/Meter	O.F.O.I.
56	Dispenser System	...
57	Telephone	...
58	Whiteboard	...
59	Mold Vibrator	O.F.O.I.
60	Vacuum Power Mixer	O.F.O.I.
61	Portable Slicer	O.F.O.I.
62	Microstation Cabinet	O.F.O.I.
63	Burn-Out Oven	O.F.O.I.
64	Burn-Out Oven	O.F.O.I.
65	Cook	O.F.O.I.
66	Brown Paper for Impression	O.F.C.I.
67	Robe Hook	...
68	Magnifying Task Light	...
69	Autopress	...
70	Fluoright Task Light	O.F.O.I.
71	Porcelain Oven	O.F.O.I.
72	Under Counter Refrigerator	O.F.O.I.
73	Vacuum Hood	O.F.O.I.
74	High Precision Pin Drill	O.F.O.I.
75	Patish Guard	O.F.O.I.
76	Vacuformer	O.F.O.I.
77	Lathe	O.F.O.I.
78	Vacuum	O.F.O.I.
79	Pin Drill	O.F.O.I.
80	Pin Drill	O.F.O.I.
81	Polisher Station	O.F.O.I.
82	Polisher Station	O.F.O.I.
83	Plester Oven	O.F.O.I.
84	Plester Oven	O.F.O.I.
85	Model Trimmer	O.F.O.I.
86	Vacuospot	O.F.O.I.
87	Model Trimmer	O.F.O.I.
88	Vacuospot	O.F.O.I.
89	Eye Wash	O.F.O.I.
90	Sand Blaster	O.F.O.I.
91	Sand Blaster	O.F.O.I.
92	Desktop Computer	O.F.O.I.
93	Down Draft Fume Hood	O.F.C.I.
94	Capture Hood	O.F.C.I.
95	Impression Cabinet Bite Table - No Shoulder Workstations Only	O.F.O.I.
96	Task Light - Non Simulator Workstations Only	O.F.O.I.
97	Printer/Imaging Station - Digital Radiography	O.F.C.I.
98	Digital Radiography Head Tube Mount	O.F.C.I.
99	Whiteboard	O.F.C.I.
100	Robehook	O.F.C.I.



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PARTIAL FLOOR PLANS
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

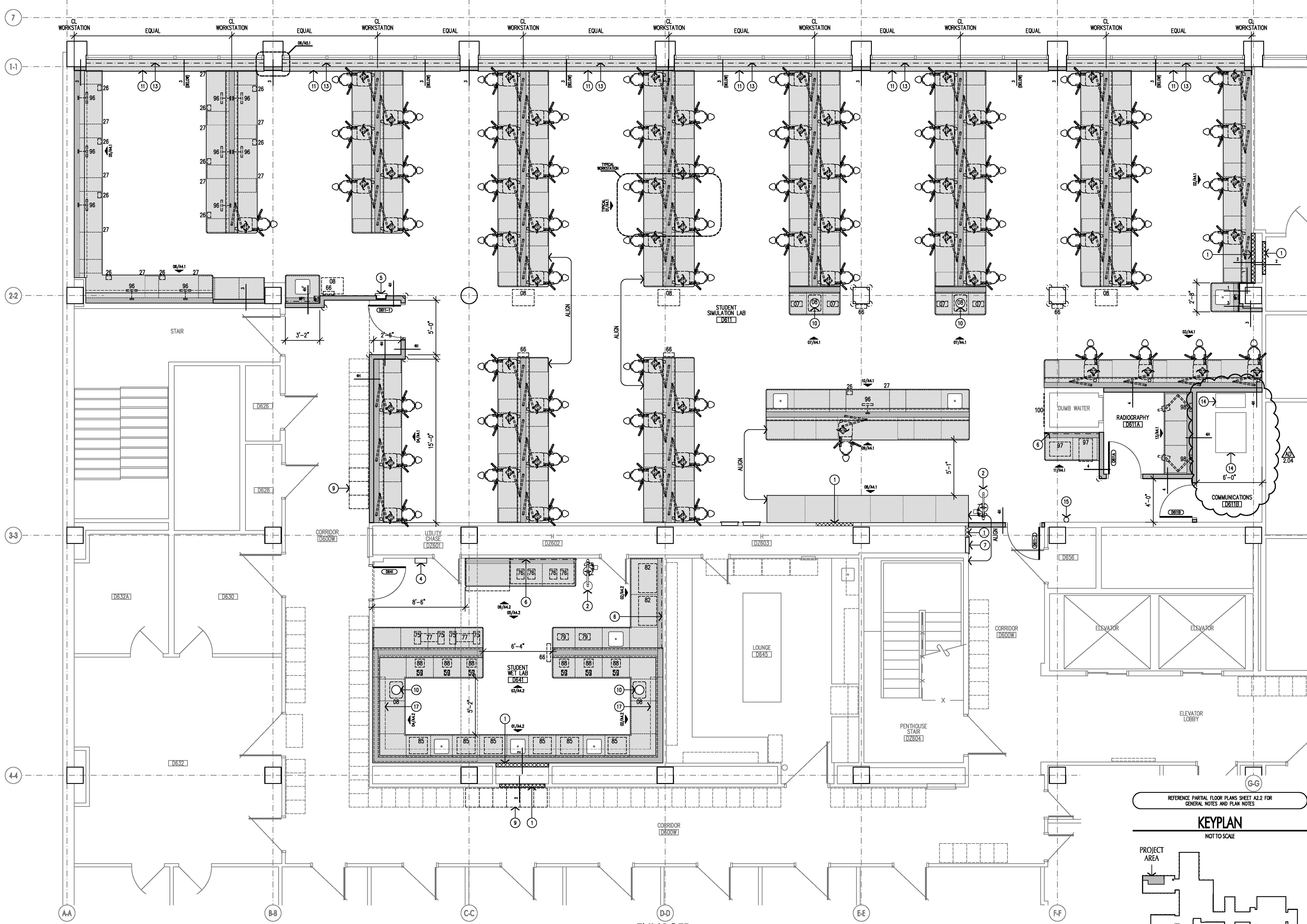
RECORD DOCUMENTS
AUGUST 2013

12 DECEMBER 2012
UKY1206

A2.0

RECORD DRAWINGS

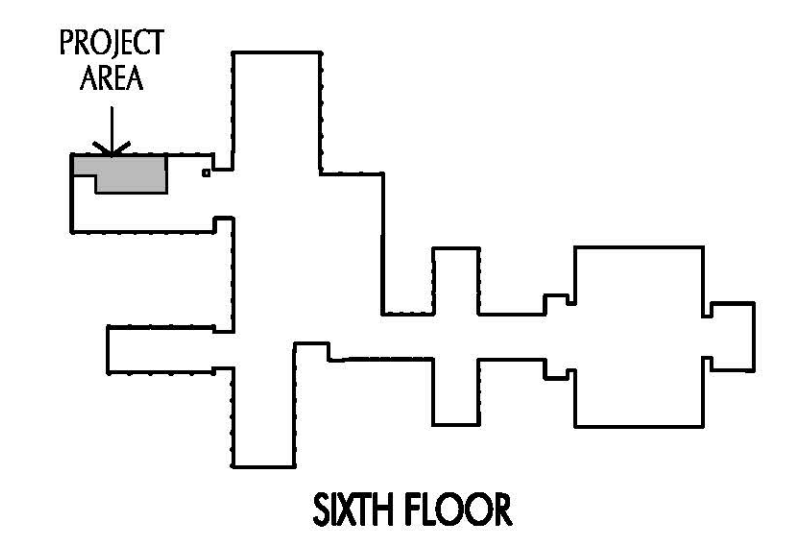
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01
A2.1
ENLARGED
SIXTH FLOOR PLAN
1/4" = 1'-0"
Plan North True North

REFERENCE PARTIAL FLOOR PLANS SHEET A2.2 FOR
GENERAL NOTES AND PLAN NOTES

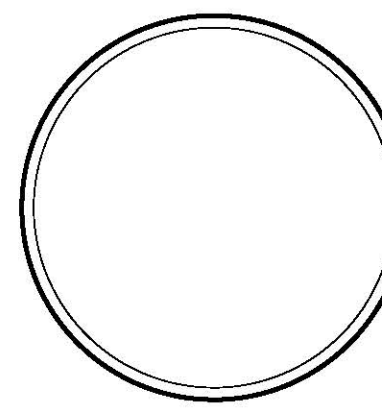
KEYPLAN
NOT TO SCALE



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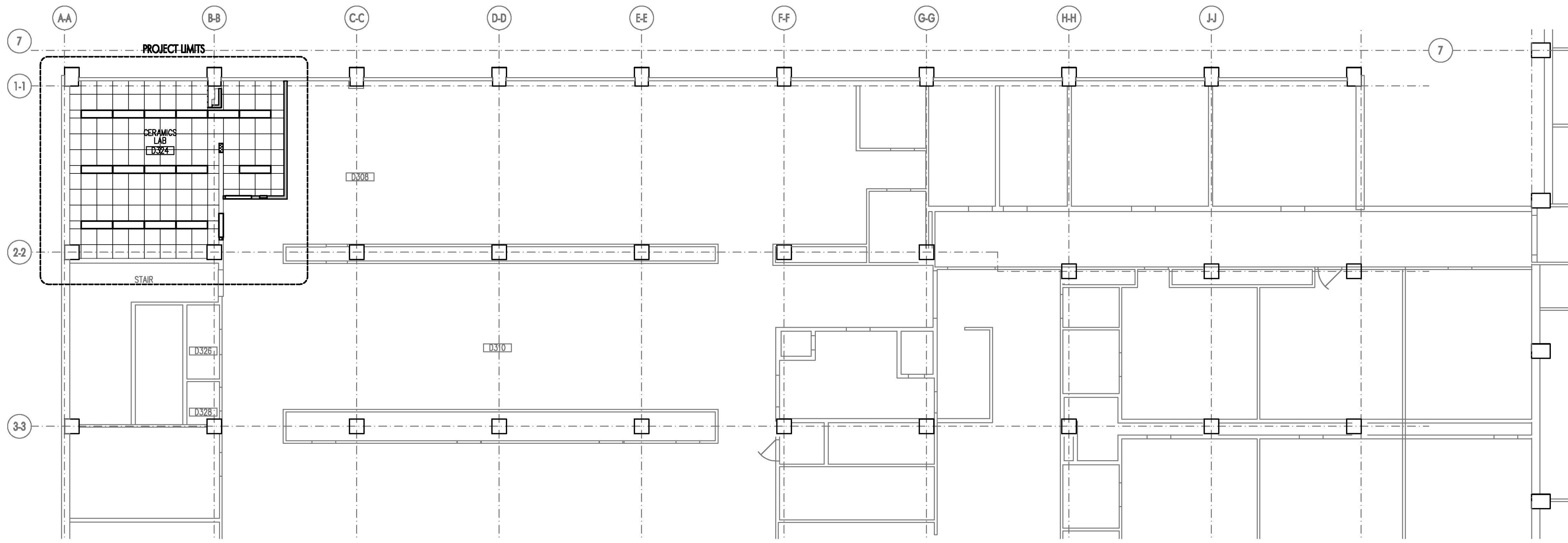
ENLARGED SIXTH FLOOR PLAN
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RECORD DOCUMENTS
AUGUST 2013
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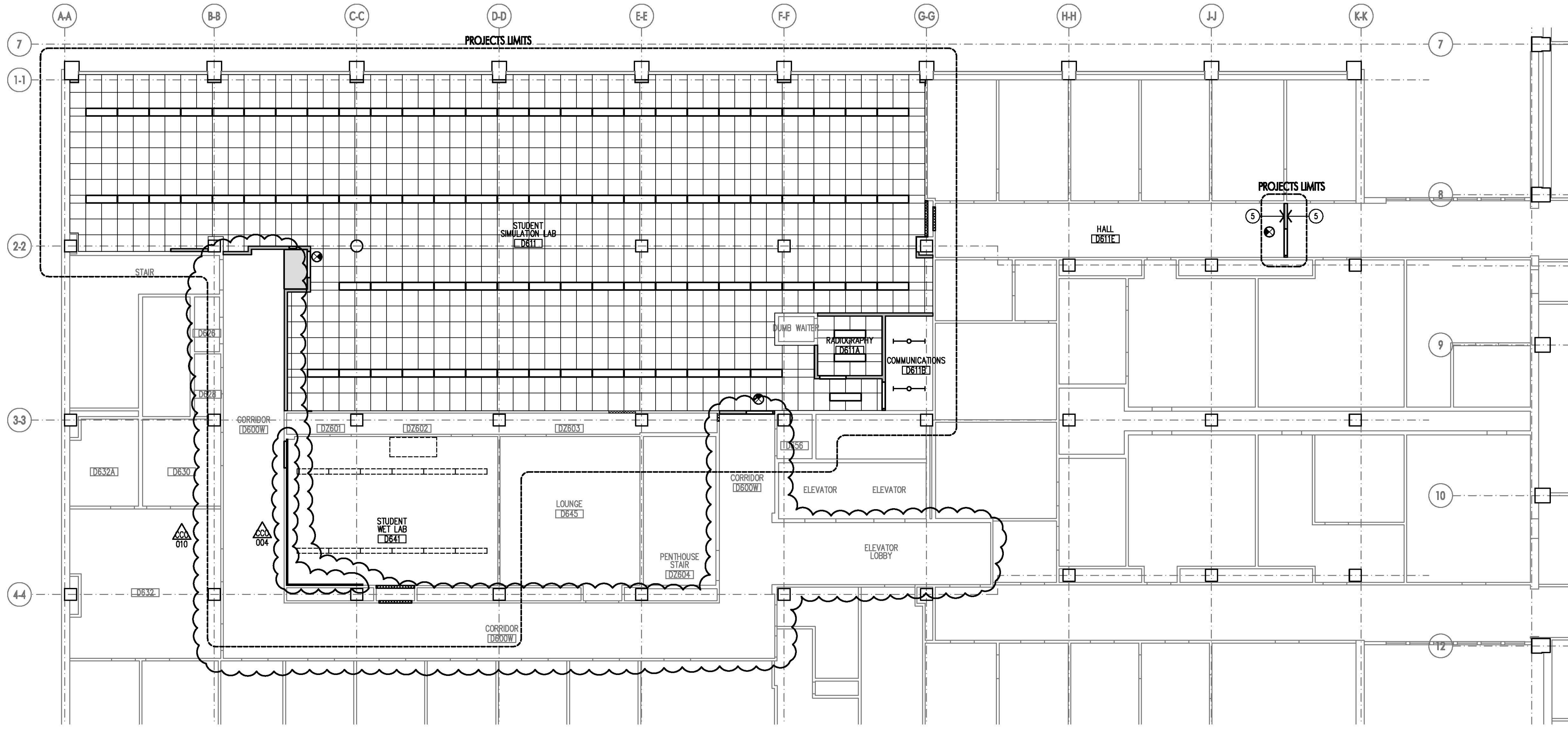
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RECORD DRAWINGS



02 PARTIAL THIRD FLOOR CEILING PLAN
 A3.0 1/8" = 1'-0"
 Plan North True North



01 PARTIAL SIXTH FLOOR CEILING PLAN
 A3.0 1/8" = 1'-0"
 Plan North True North

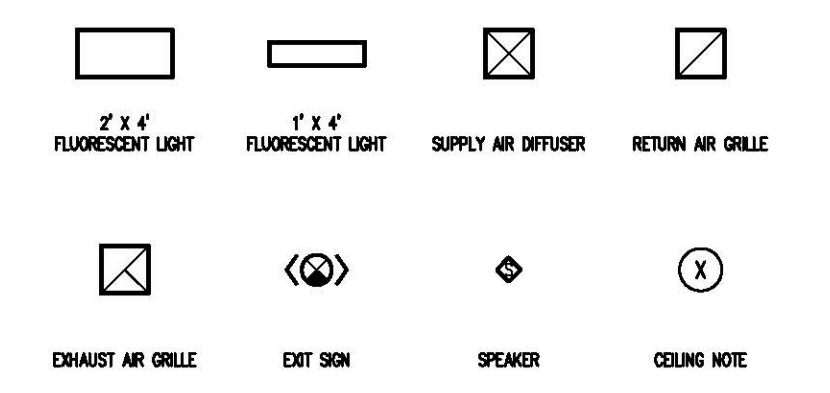
GENERAL NOTES

- REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
- ARCHITECTURAL CEILING PLAN SHALL GOVERN OVER MECHANICAL, PLUMBING, AND ELECTRICAL PLANS REGARDING EXACT LOCATIONS OF CEILING GRIDS, LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MOUNTED ITEMS. DISCREPANCIES IN QUANTITY AND/OR ORIENTATION BETWEEN ARCHITECTURAL, ELECTRICAL, MECHANICAL AND/OR PLUMBING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMISSION OF PRICING. CONTRACTOR SHALL VERIFY FINAL LOCATIONS OF ALL CEILING AND WALL MOUNTED ITEMS WITH ARCHITECT AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. ANY ITEMS INCORRECTLY PLACED WITHOUT VERIFICATION FROM ARCHITECT AND ENGINEER SHALL BE RELOCATED PER DIRECTION OF ARCHITECT AT NO EXPENSE TO THE PROJECT.
- ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, AUDIO/VISUAL FIXTURES, ETC.) SHALL BE CENTERED IN CEILING TILES, SOFFITS, OR GYPSUM WALL BOARD CEILING, AND/OR ALIGNED WITH ADJACENT CEILING MOUNTED ITEMS UNLESS OTHERWISE NOTED.
- GYPSUM WALL BOARD AND ACOUSTICAL INSULATION SHALL EXTEND TIGHT TO UNDERSIDE OF DECK IN ALL LOCATIONS UNLESS OTHERWISE NOTED.
- A CUT 2'-0" X 4'-0" CEILING TILE SHALL BE USED IN ANY ROOM WHERE 2'-0" X 2'-0" CEILING GRID CREATES AND EDGE CONDITION OF A CEILING TILE BEING LESS THAN 6".
- ALL DIMENSIONS ARE FROM FINISHED FACE OF WALL TO FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
- ALL CEILING SHALL BE 8'-0" A.F.F. UNLESS OTHERWISE NOTED.
- REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF WORK REQUIRED ON FIFTH FLOOR. REPLACE ALL DAMAGED CEILING TILES AND GRID AS NEEDED TO MAINTAIN EXISTING CEILING SYSTEM.

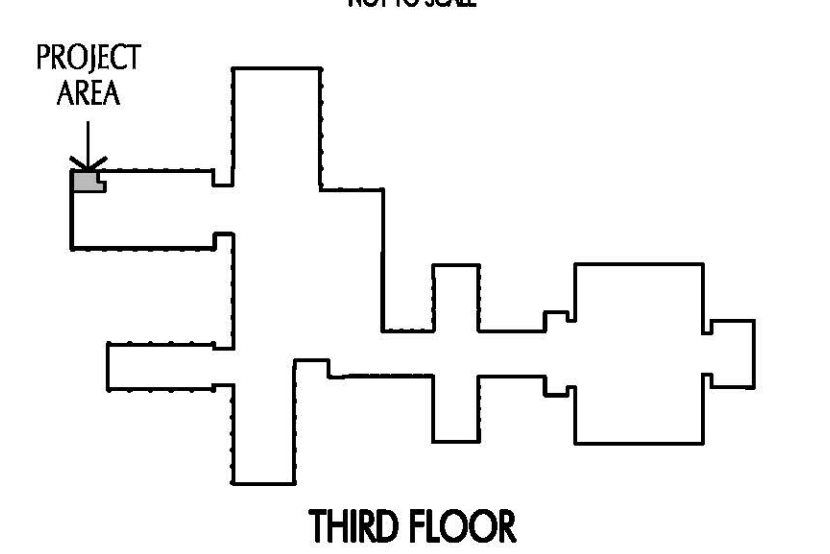
CEILING NOTES

- 5/8" GYPSUM WALLBOARD. (09260)
- SUSPENDED ACOUSTICAL CEILING SYSTEM. (09511)
- 3/8" METAL STUDS AT 1'-4" O.C. (BRACE TO STRUCTURE AS REQUIRED). (09620)
- EXPOSED PAINTED CEILING. (SEE A6.1 FINISH PLANS)
- MODIFY EXISTING ACOUSTICAL SUSPENDED CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.
- NEW CANOPY HOOD. COORDINATE WITH INSTALLATION OF CEILING. (REFER TO MECHANICAL DRAWINGS)
- NO CEILING.
- 7/8" FURRING CHANNEL.
- 5/8" GYPSUM BOARD.
- BOTTOM EDGE OF NEW FURR OUT - 8'-0" A.F.F.
- REPLACE EXISTING SUSPENDED ACOUSTICAL CEILING WITH NEW.

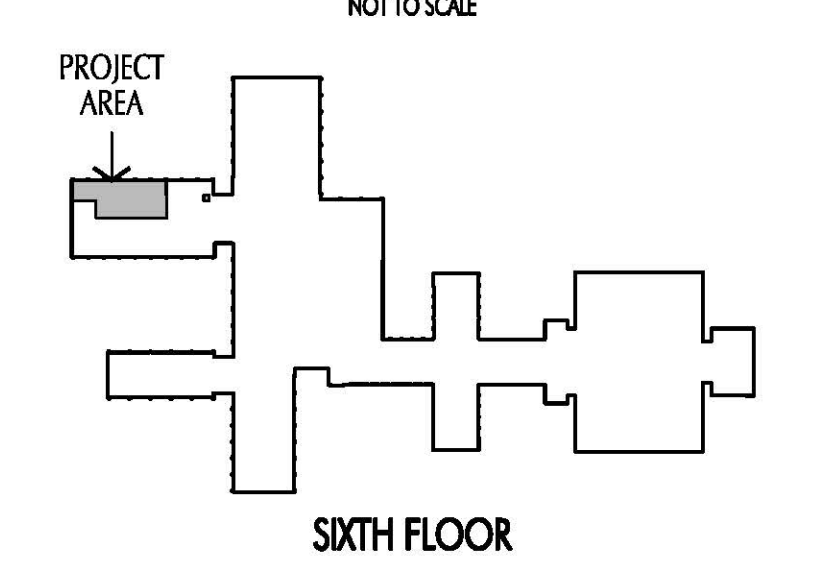
CEILING LEGEND



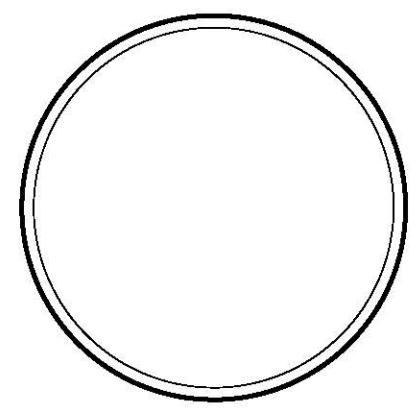
KEYPLAN



KEYPLAN



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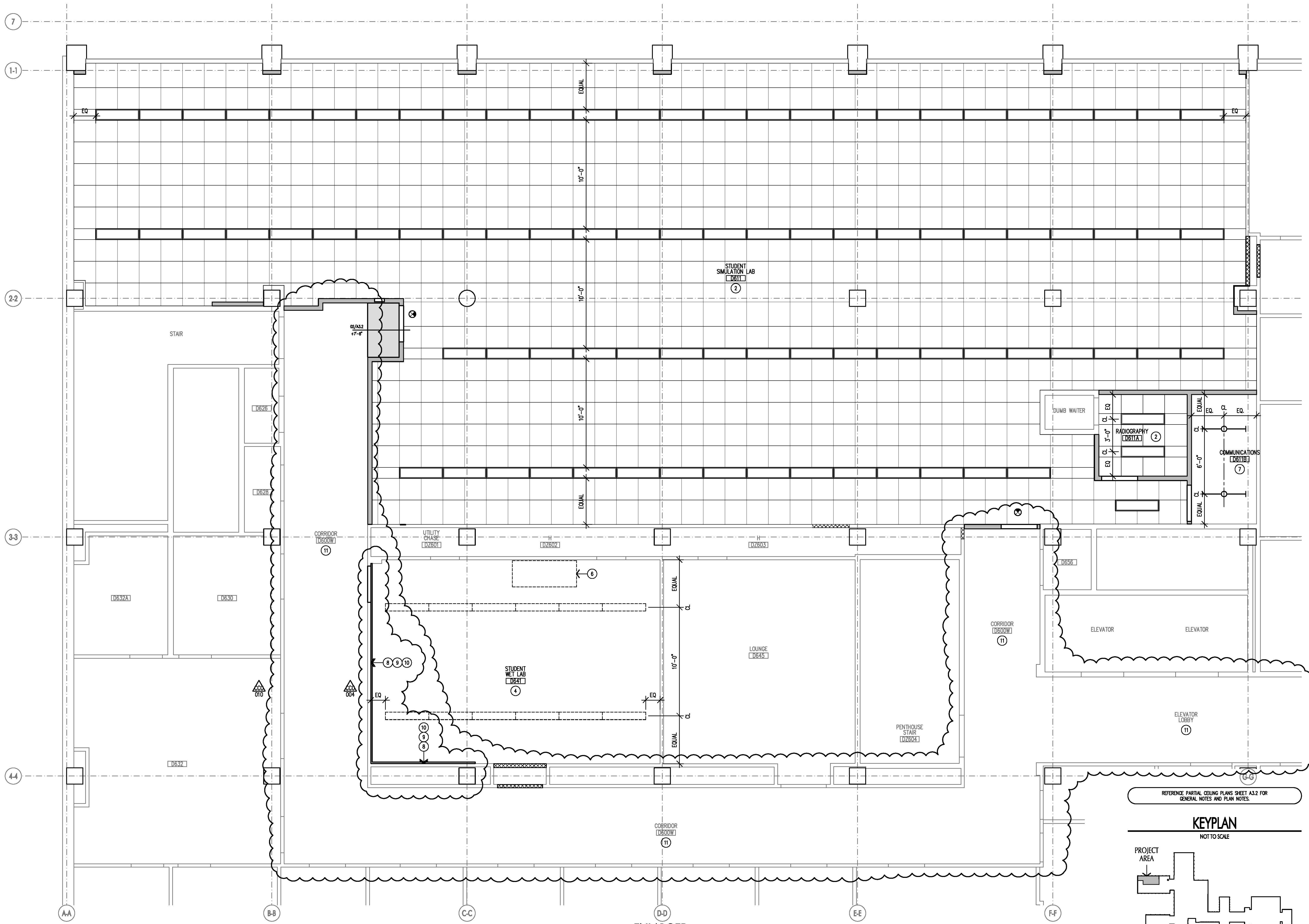
PARTIAL CEILING PLANS
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RECORD DOCUMENTS
 AUGUST 2013
 12 DECEMBER 2012
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A3.0

RECORD DRAWINGS

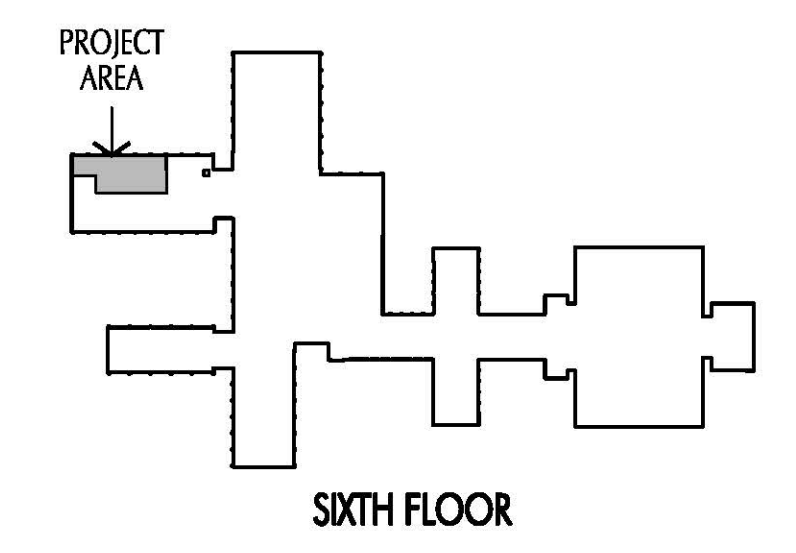
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01 ENLARGED SIXTH FLOOR CEILING PLAN
 A3.1 1/4" = 1'-0"
 Plan North True North

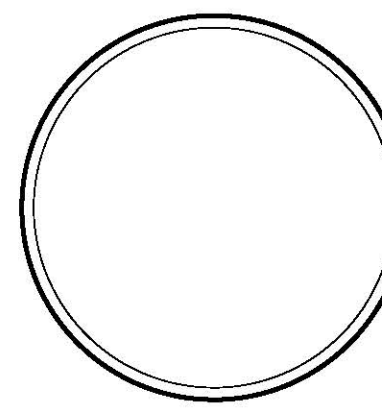
REFERENCE PARTIAL CEILING PLANS SHEET A3.2 FOR GENERAL NOTES AND PLAN NOTES.

KEYPLAN
 NOT TO SCALE



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ENLARGED SIXTH FLOOR CEILING PLAN
 RENOVATE DENTISTRY CLASS LABS
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RECORD DOCUMENTS
 AUGUST 2013
 12 DECEMBER 2012
 UKY1206

A3.1

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RECORD DRAWINGS


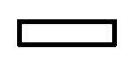

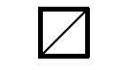




GENERAL NOTES

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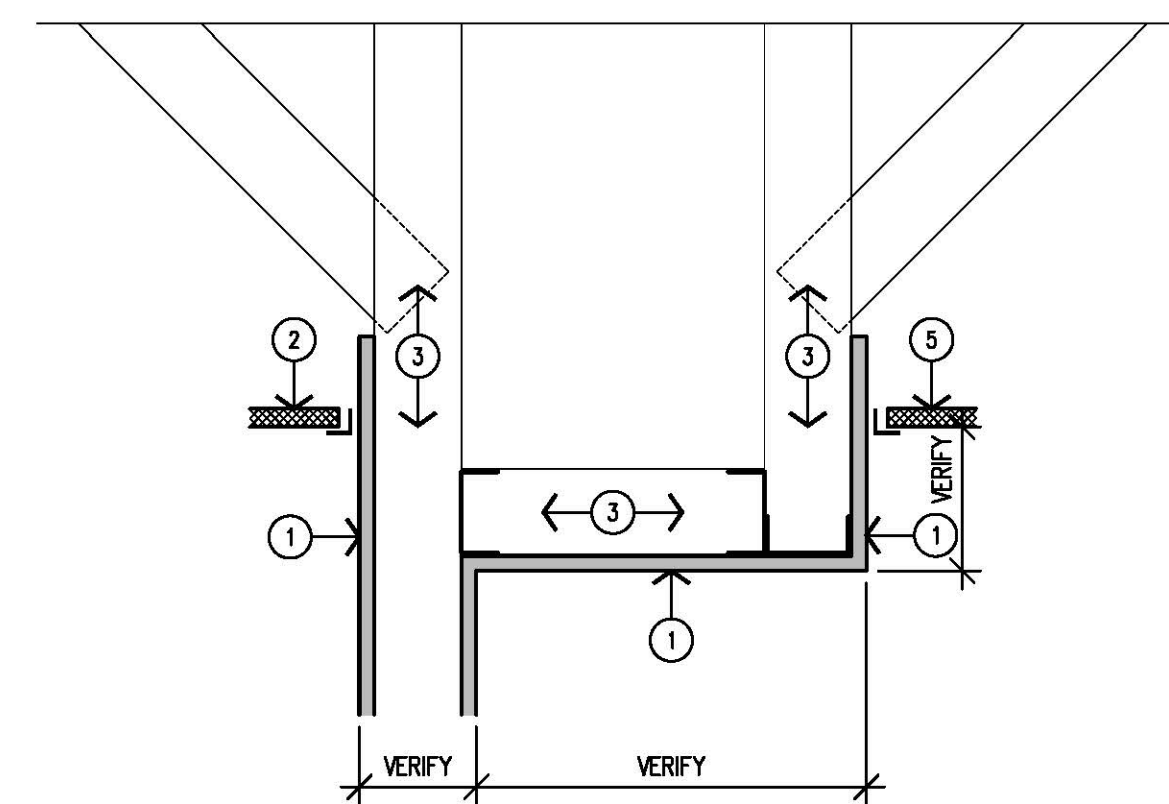
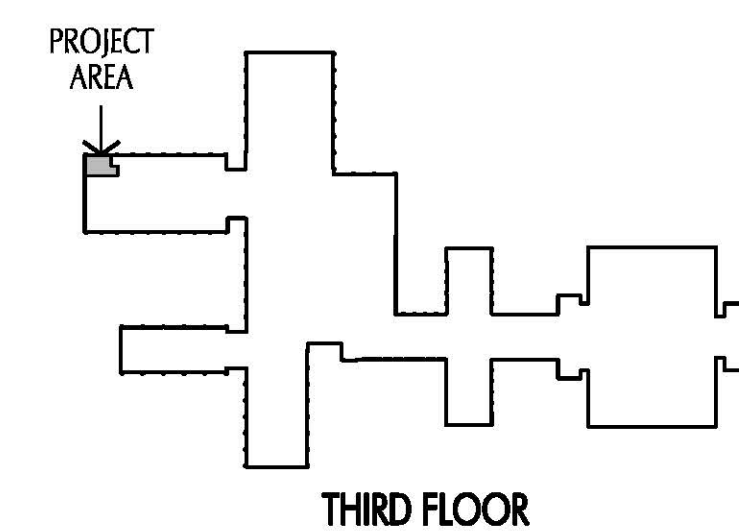
CEILING NOTES

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- SUSPENDED ACOUSTICAL CEILING SYSTEM. (09511)
- 3 5/8" METAL STUDS AT 1'-4" O.C. (BRACE TO STRUCTURE AS REQUIRED). (09620)
- EXPOSED PAINTED CEILING. (SEE A6.1 FINISH PLANS)
- MODIFY EXISTING ACOUSTICAL SUSPENDED CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.
- NEW CANOPY HOOD. COORDINATE WITH INSTALLATION OF CEILING. (REFER TO MECHANICAL DRAWINGS)
- NO CEILING.
- 7/8" FURRING CHANNEL.
- 5/8" GYPSUM BOARD.
- BOTTOM EDGE OF NEW FURR OUT - 8'-0" A.F.F.
- REPLACE EXISTING SUSPENDED ACOUSTICAL CEILING WITH NEW.

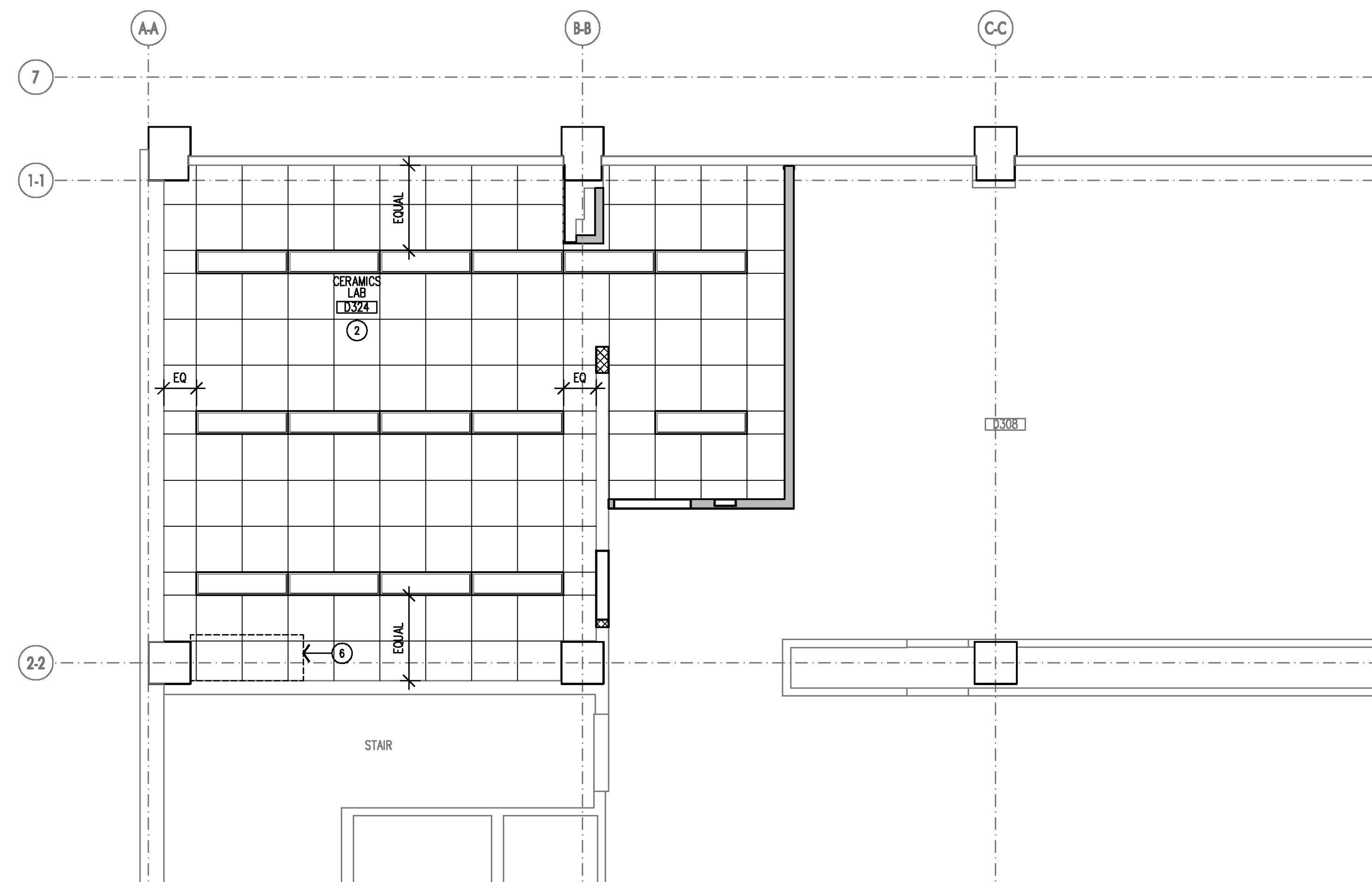
CEILING LEGEND

			
2' x 4' FLUORESCENT LIGHT	4' x 4' FLUORESCENT LIGHT	SUPPLY AIR DIFFUSER	RETURN AIR GRILLE
			
EXHAUST AIR GRILLE	EXIT SIGN	SPEAKER	CEILING NOTE

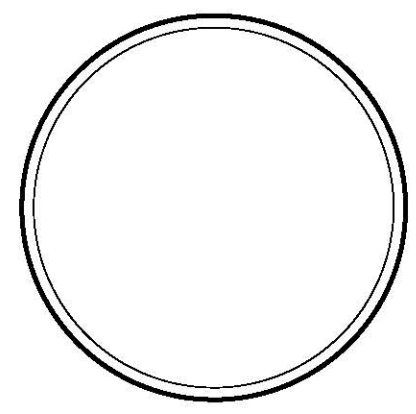
KEYPLAN



02
A3.2
SOFFIT DETAIL
1 1/2" = 1'-0"



01
A3.2
ENLARGED THIRD FLOOR CEILING PLAN
1/4" = 1'-0"
Plan North True North



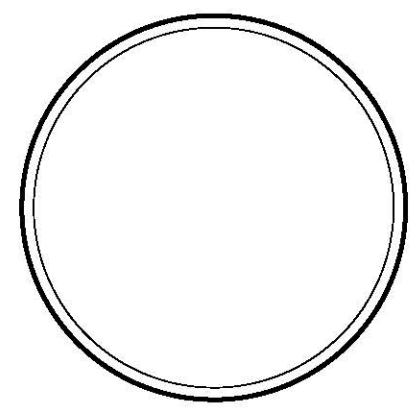
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RECORD DOCUMENTS

AUGUST 2013

12 DECEMBER 2012
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A4.2

RECORD DRAWINGS

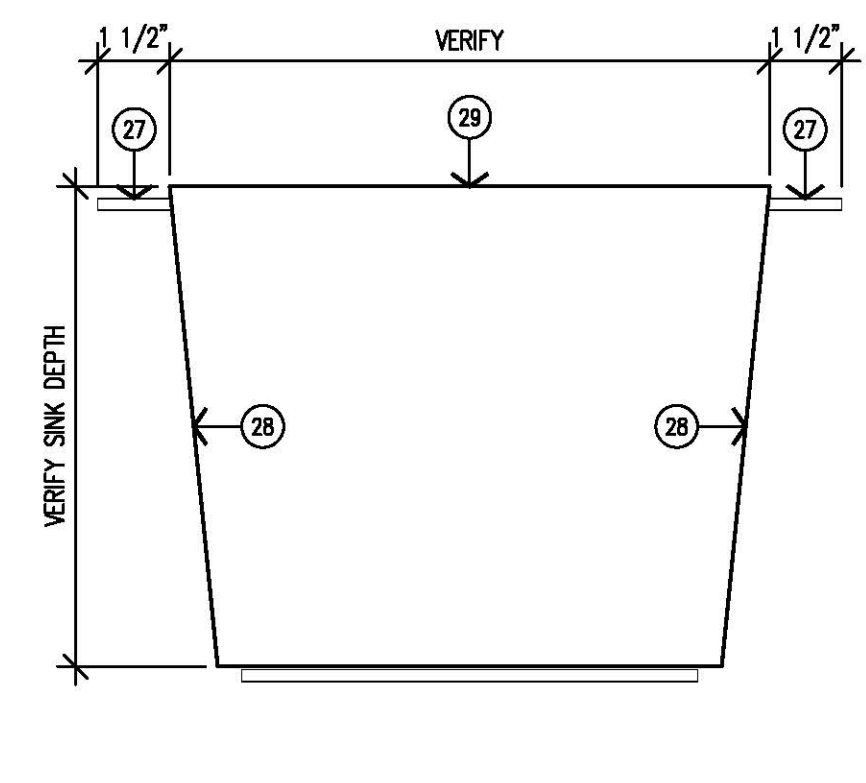
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REFERENCE INTERIOR ELEVATIONS SHEET A4.1 FOR GENERAL NOTES

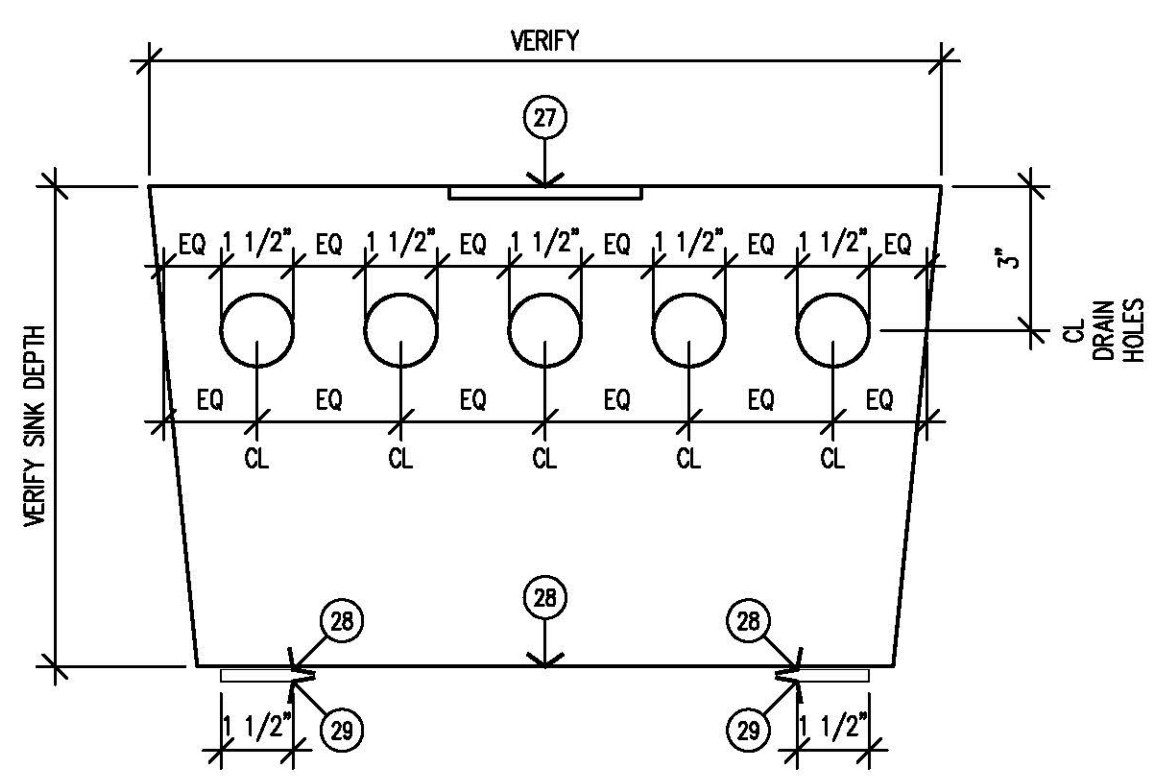
INTERIOR ELEVATION NOTES

- 1 10" DIAMETER TRASH OPENING WITH 1/8" EASED EDGES TO BE CUT INTO COUNTERTOP COORDINATE WITH OFCI TRASH CAN AND BASE CABINET INSTALLATION. (06400/12300)
2 FUME HOOD. (1610)
3 RUBBER BASE. (09650)
4 SURFACE MOUNTED ELECTRICAL RACEWAY. (REFER TO ELECTRICAL DRAWINGS)
5 EMERGENCY SHOWER/EYE WASH. (REFER TO PLUMBING DRAWINGS)
6 1/2" SOLID SURFACE WALL PROTECTION (WP1). (06400)
7 FULL-HEIGHT WALL RAIL ASSEMBLY. INSTALL USING HORIZONTAL AND VERTICAL SLOTTED RAILS SIMILAR TO PRODUCTS 483H5010, 483H5020, AND 483H5000 - MAX/LAB WALL RAIL SYSTEM AS MANUFACTURED BY THERMO FISHER SCIENTIFIC INC. INSTALL FULL WIDTH, 12" DEEP, FRONT AND END LIPPED, TILTING AND ADJUSTABLE SHELVING SIMILAR TO PRODUCT 927H1772 - TILTING SHELVES MAX SYSTEM AS MANUFACTURED BY THERMO FISHER SCIENTIFIC INC. (12345)
8 DOUBLE SIDED 72"W X 85"H STEEL ISLAND SUPPORT FRAME FOR ABOVE COUNTER SHELVING SIMILAR TO PRODUCT DSD72400 MAX/LAB OPEN ISLAND PANEL AS MANUFACTURED BY THERMO FISHER SCIENTIFIC INC. INSTALL FULL WIDTH, 12" DEEP, FRONT AND END LIPPED. TILTING AND ADJUSTABLE SHELVING SIMILAR TO PRODUCT 927H1772 - TILTING SHELVES MAX SYSTEM AS MANUFACTURED BY THERMO FISHER SCIENTIFIC INC. (12345)
9 PROVIDE KNAPE AND VOGT MANUFACTURING COMPANY (GRAND RAPIDS, MI) P922-ZC ROLL-EZY BALL BEARING TRACK ASSEMBLY 1/4" TEMPERED GLASS DOORS AND 953 OR SLIDING DOOR LOCK (RECESSED SILL TRACK IN TRANSACTION COUNTER TOP)
10 RELOCATE EXISTING 2/2 LOCKERS.
11 UNISTRUT UTILITY CHASE AND CASEWORK STRUCTURE.
12 WORKSTATION INTEGRATED DUST COLLECTION VACUUM MOTOR. (0FC1) (00200)

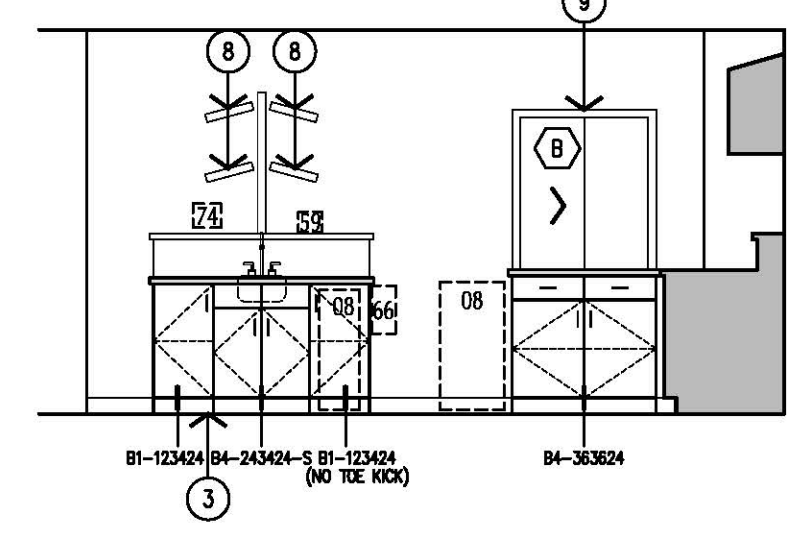
- 13 REMOVABLE KNEESPACE ACCESS PANEL. (12345)
14 DENTAL LIGHT. (0FW)
15 SHELF WITH 1/8" RADIUS EDGES. MATERIAL SHALL MATCH ADJACENT COUNTERTOPS. (06400/12304)
16 CAPTURE HOOD. (REFER TO MECHANICAL DRAWINGS)
17 ARTICULATING COMPUTER MOUNT. COORDINATE WITH OWNER.
18 DENTAL SIMULATOR. (0FW)
19 UTILITY CONNECTION BRACKET FOR DENTAL SIMULATOR. (0FC1) (REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS)
20 INTEGRAL DUST COLLECTOR REMOTE SWITCH. COORDINATE INSTALLATION AND CASEWORK MOUNTING LOCATION WITH ARCHITECT/OWNER. (0FC1) (00200)
21 WORKSTATION INTEGRATED DUST COLLECTION ACCUMULATOR. (0FC1) (00200)
22 PROVIDE RIGID 2" PVC VACUUM LINE. INSTALL USING FRICTION FIT ONLY NO GLUE. (00200)
23 METAL FINISH PANEL. (12345)
24 WORKSTATION INTEGRATED DUST COLLECTOR NET PORT. COORDINATE INSTALLATION WITH CASEWORK. (0FC1) (00200)
25 DUST PORT MOUNTING BRACKET. (0FC1) (00200)
26 SEALANT. (07900/12345)
27 STAINLESS STEEL HANDLE.
28 WELDED CONNECTIONS GROUND AND FINISHED SMOOTH AND FLUSH.
29 SAND AND SMOOTH ALL EXPOSED EDGES.
30 INTEGRAL METAL LOUVERS. MATCH ADJACENT CASEWORK FINISH. COORDINATE SIZE AND LOCATION WITH ARCHITECT/OWNER.



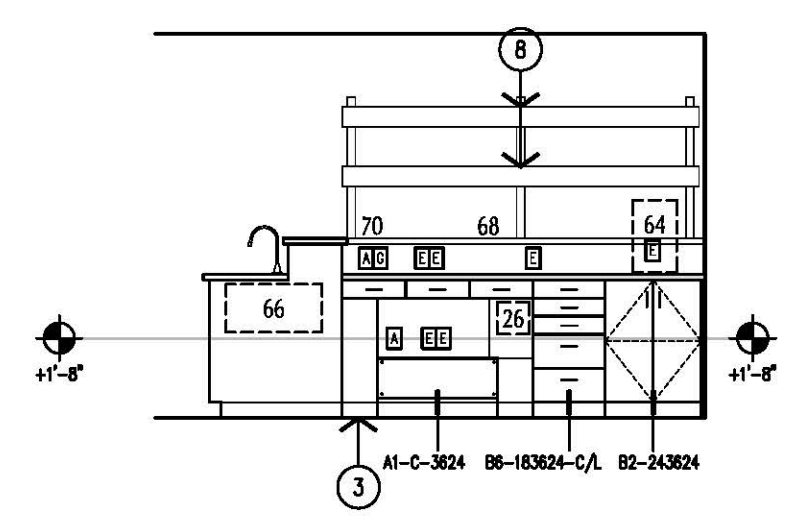
14 STAINLESS STEEL DRAIN PAN A4.2 3' = 1'-0"



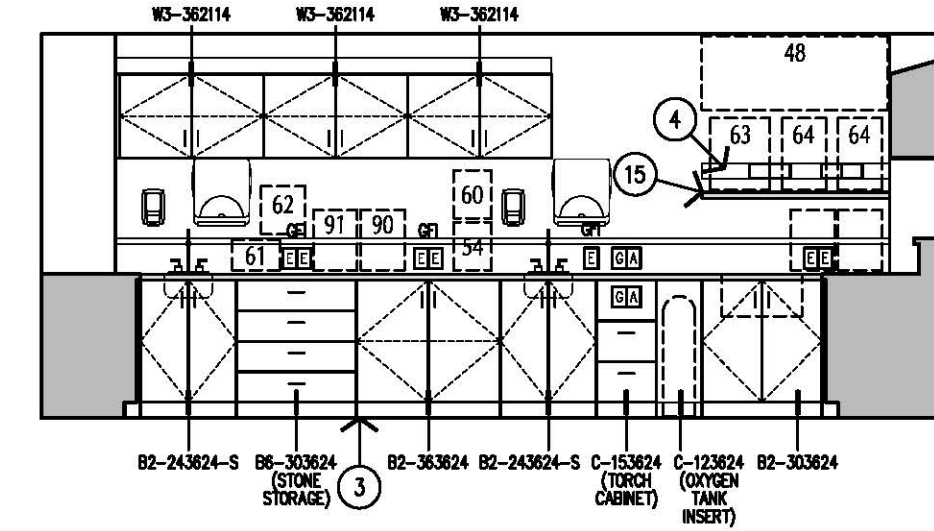
13 STAINLESS STEEL DRAIN PAN A4.2 3' = 1'-0"



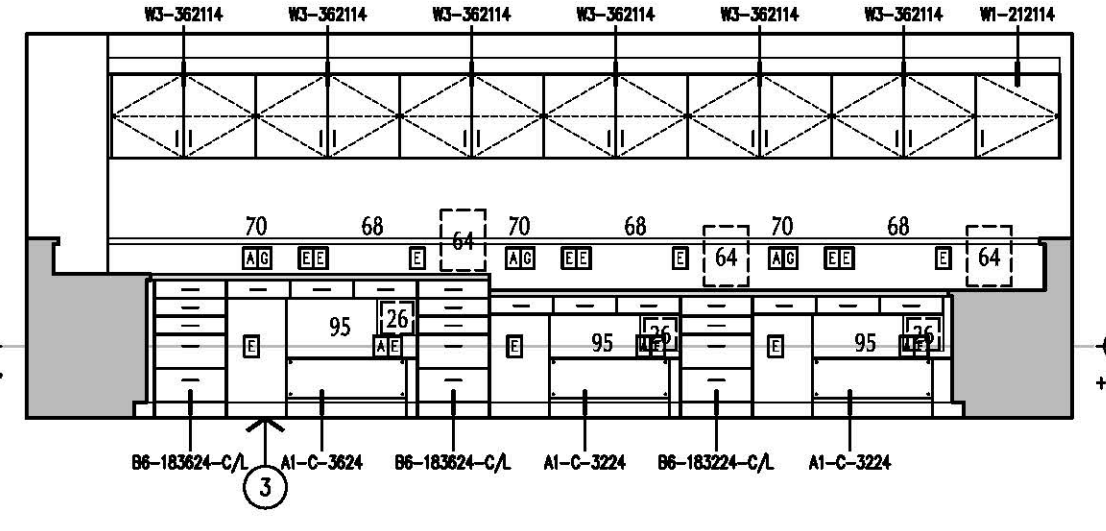
CERAMICS LAB - D324 12 A4.2



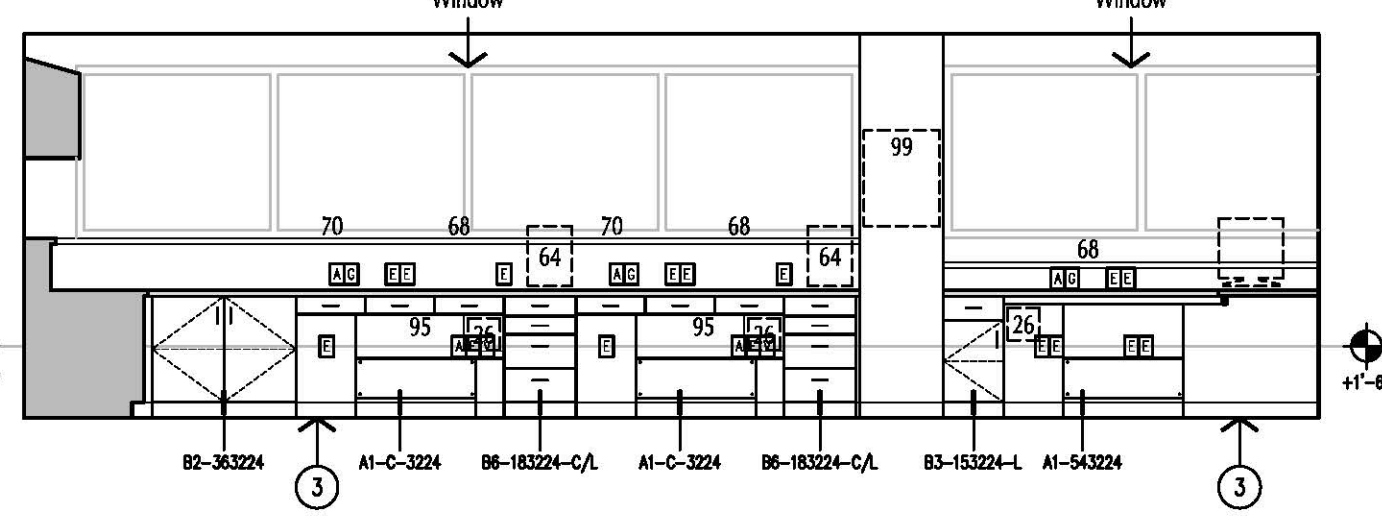
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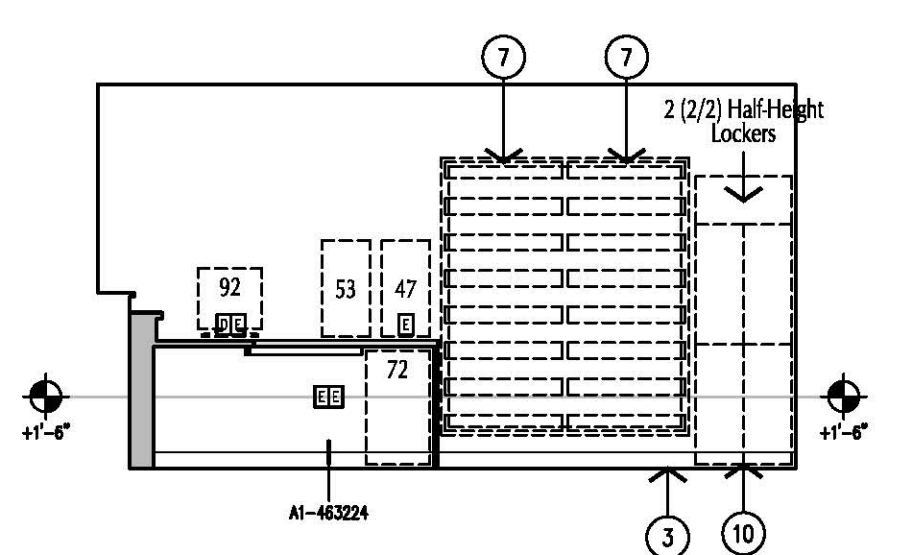
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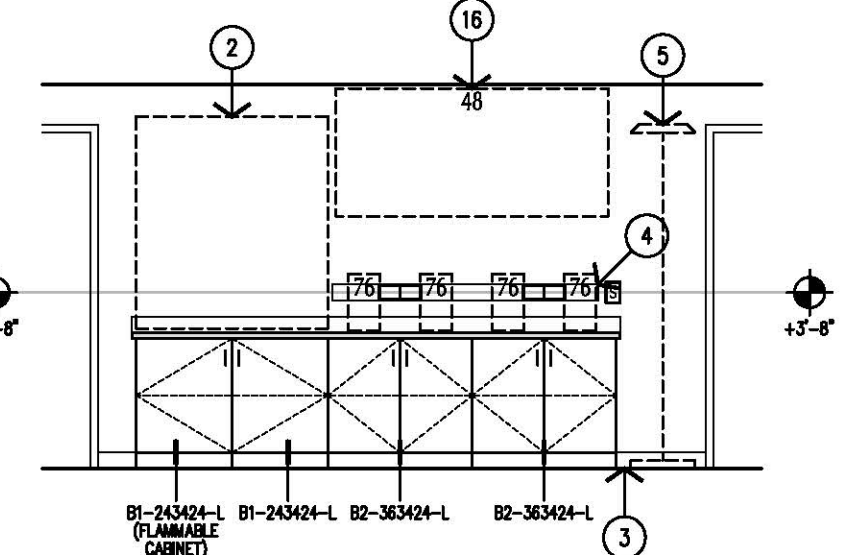
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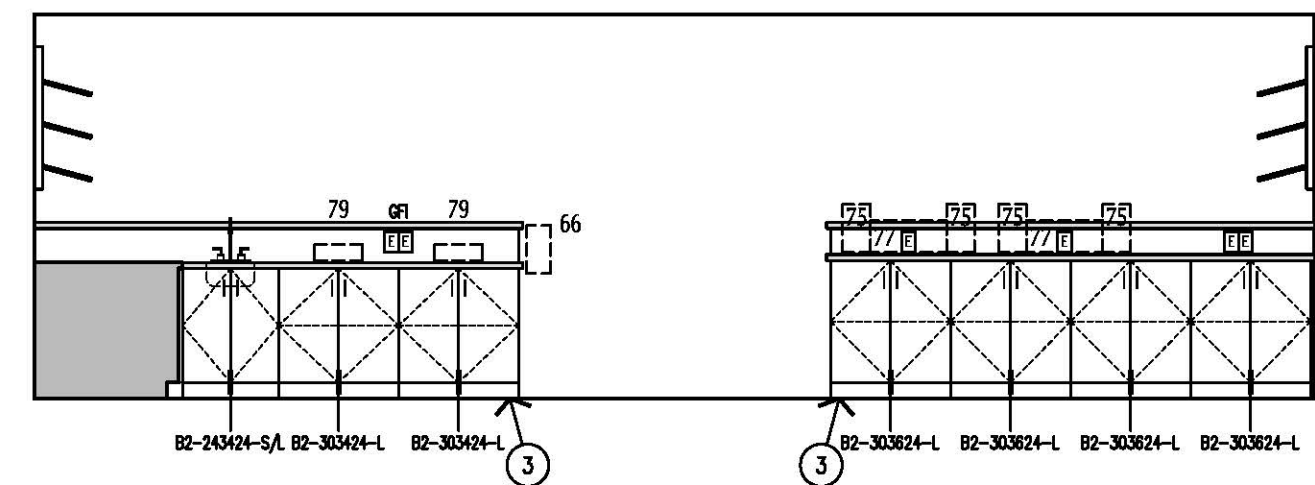
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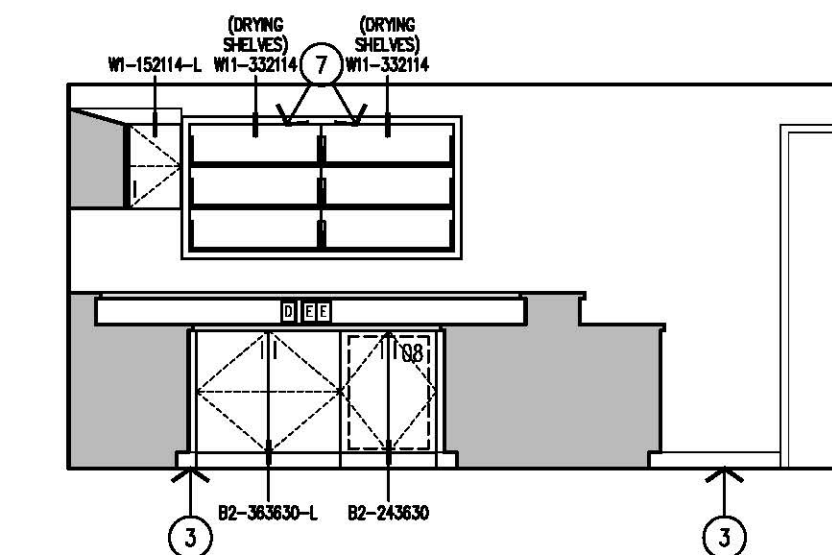
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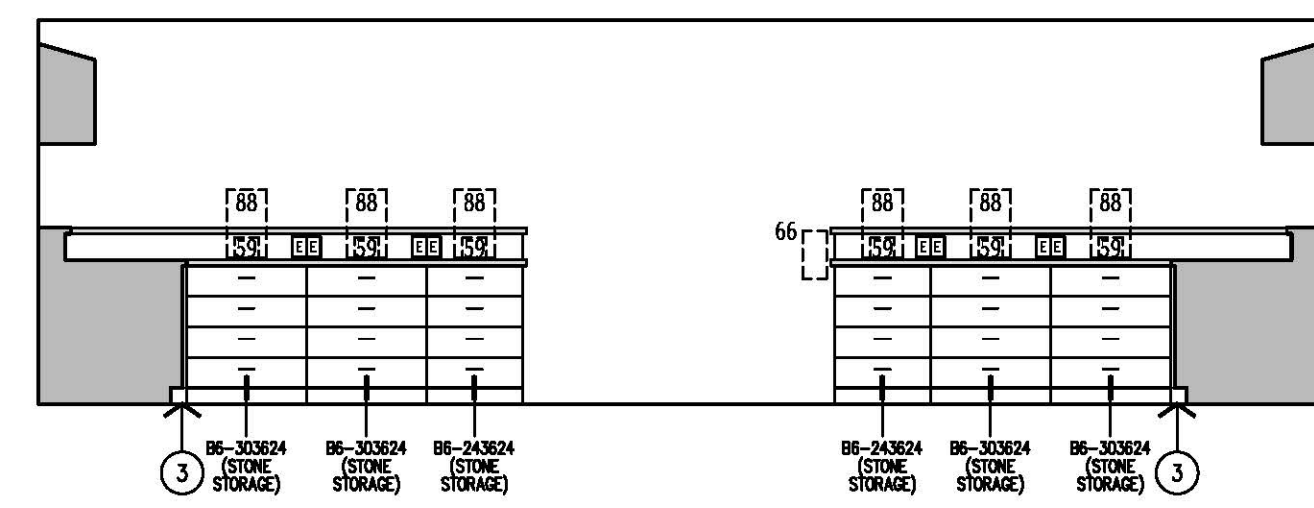
STUDENT WET LAB - D641 06 A4.2



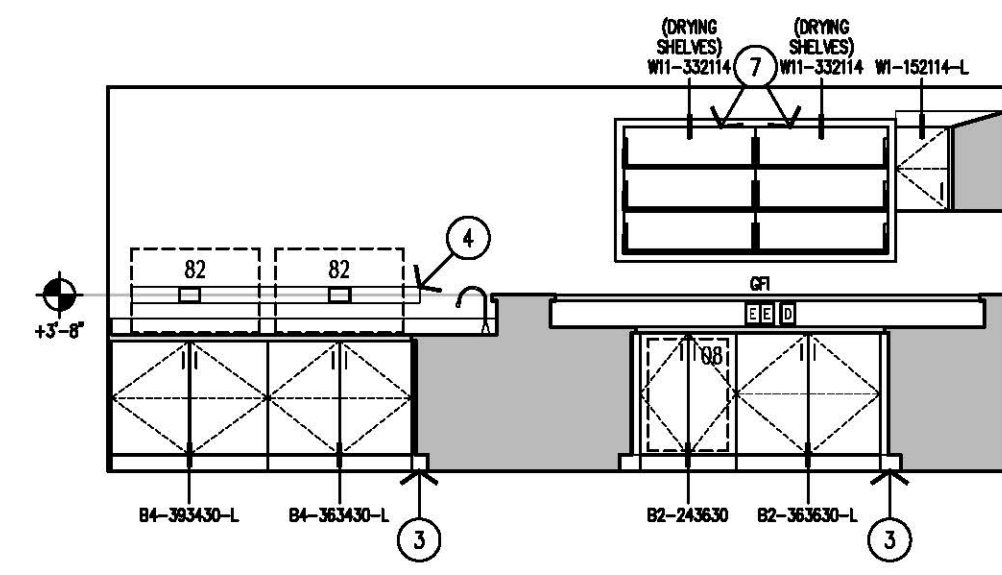
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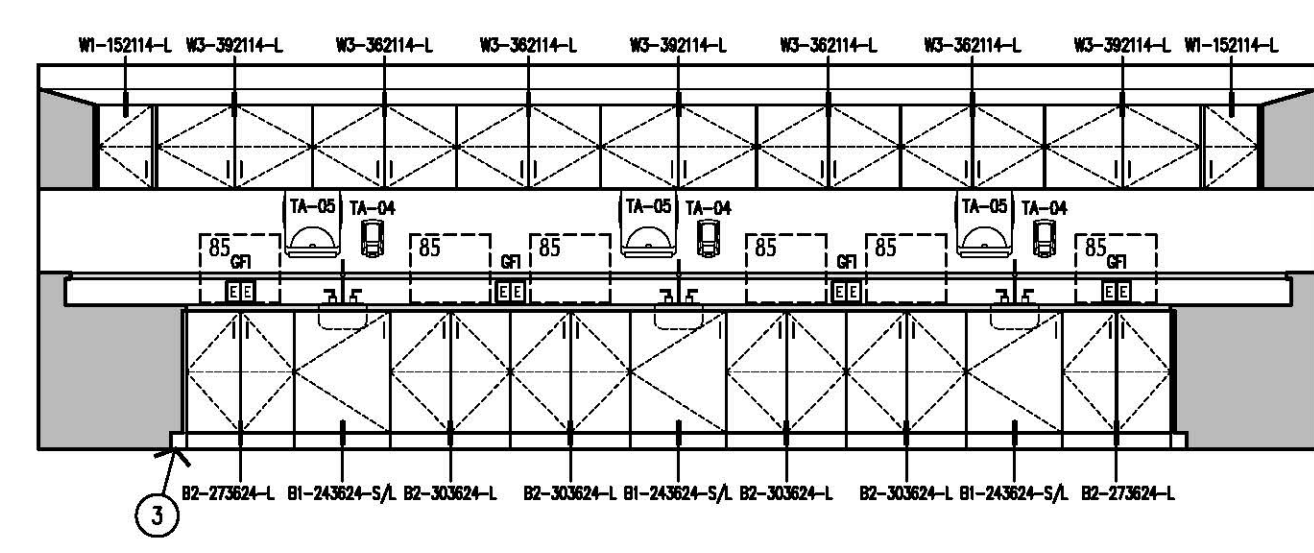
STUDENT WET LAB - D641 04 A4.2



STUDENT WET LAB - D641 03 A4.2



STUDENT WET LAB - D641 02 A4.2

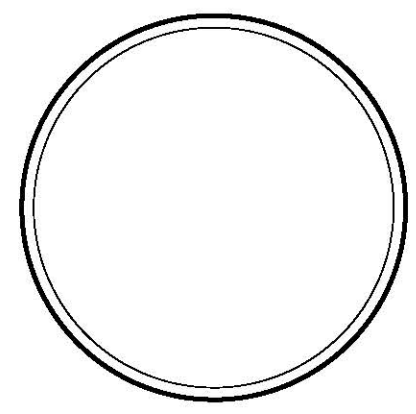


STUDENT WET LAB - D641 01 A4.2

CASEWORK LEGEND

Table defining casework symbols for accessories, base cabinets, wall cabinets, and full height cabinets. Includes a casework size notation: B4-243624-S with arrows pointing to Type, Height, Width, Depth, and Modifier.

INTERIOR ELEVATIONS 1/4" = 1'-0"



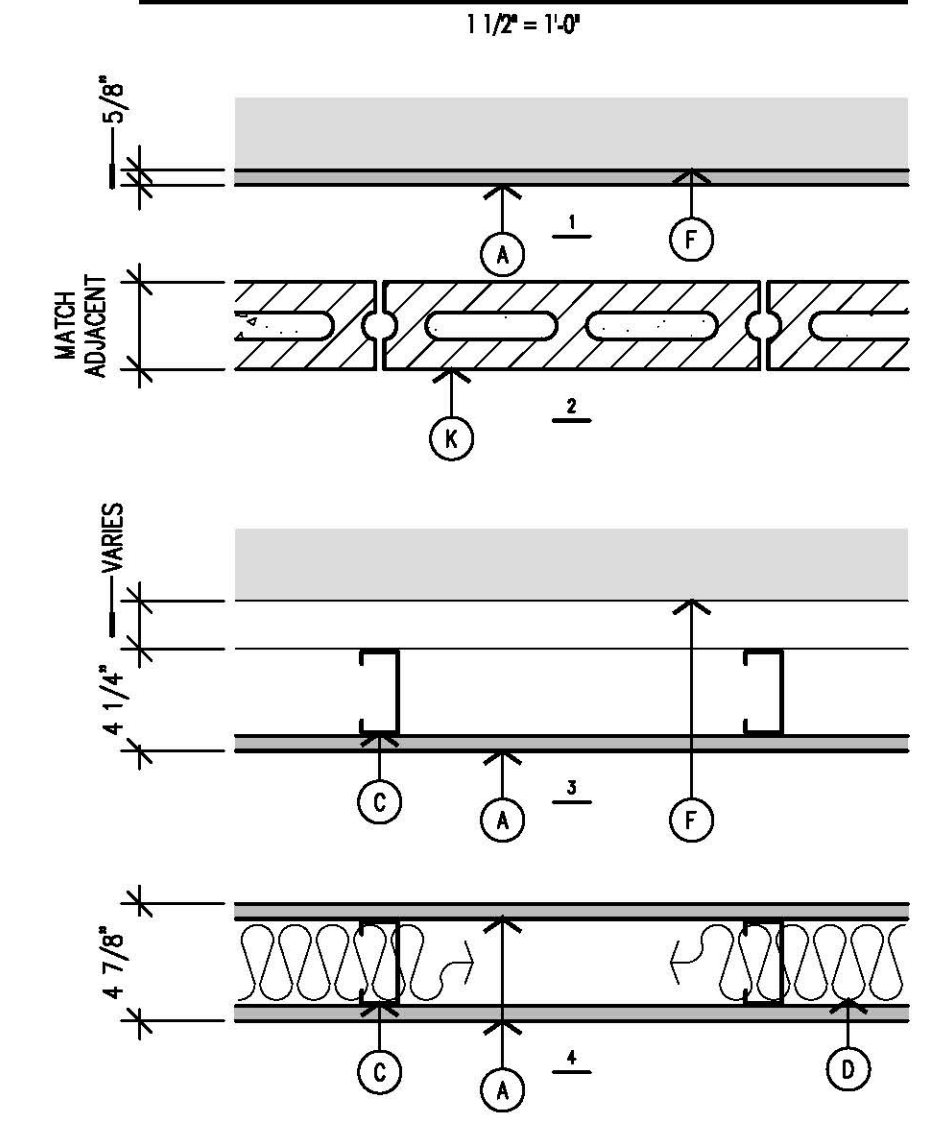
GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
- CONTRACTOR SHALL VERIFY FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL DIMENSIONS ARE FROM FINISH FACE OF WALL TO FINISH FACE OF WALL UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATION OF EXISTING DOOR/FRAME HEIGHTS - NEW DOORS/FRAMES SHALL MATCH HEIGHT OF EXISTING DOORS/FRAMES.
- O.F.O.I. INDICATES OWNER FURNISHED, OWNER INSTALLED EQUIPMENT. C.F.C.I. INDICATES CONTRACTOR FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. C.F.C.I. INDICATES CONTRACTOR FURNISHED, CONTRACTOR INSTALLED EQUIPMENT.
- GENERAL CONTRACTOR SHALL PROVIDE WOOD BLOCKING (08100) AS REQUIRED FOR SUPPORT OF ALL OWNER FURNISHED AND CONTRACTOR FURNISHED EQUIPMENT.
- SEALANT TYPICAL AT ALL JOINTS OF ALL ASSEMBLIES. (07900)
- DOOR AND FRAME ELEVATION COLUMNS ON OPENING SCHEDULE REFERENCES DOOR AND FRAME ELEVATIONS ON THIS SHEET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL WALL THICKNESSES TO ENSURE THAT PROPER HOLLOW METAL FRAME THROAT THICKNESSES ARE PROVIDED.

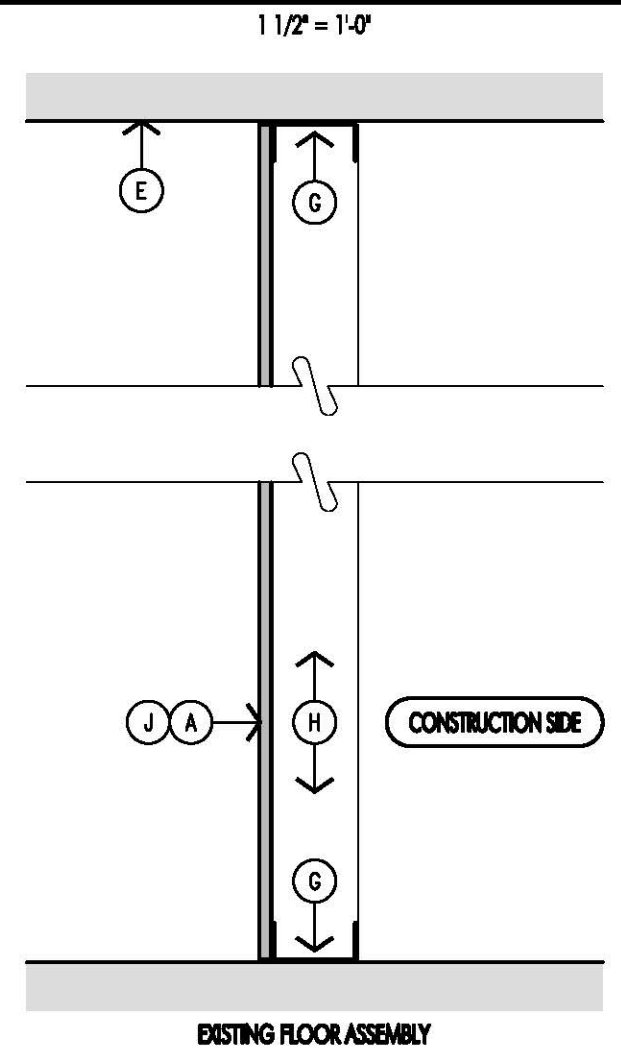
SCHEDULE/DETAIL NOTES

- EXISTING CONSTRUCTION - FIELD VERIFY DIMENSIONS.
- 1/2" THICK SOLID SURFACE SILL WITH 1/8" EASED EDGES AND 1/2" RADIUS OUTSIDE CORNERS, AND 1" OVERHANG. (06400)
- GLASS PANEL WITH HOLLOW METAL GLAZING STOPS. (08211/08800)
- 5/8" GYPSUM WALLBOARD. (09260)
- BRAKE METAL, FACTORY PAINTED TO MATCH EXISTING WINDOW SYSTEM.
- 4 3/4" HOLLOW METAL FRAME. (08112)
- 3 5/8" METAL STUDS @ 1'-4" O.C. MAXIMUM. (09260)
- GLASS FIBER ACOUSTICAL INSULATION. (TYPICAL) (07210)
- TRANSACTION WINDOW GLAZING. (TYPE C-1) (08800)
- COUNTERTOP WITH 1/8" RADIUS EDGES AND INTEGRAL TRANSACTION WINDOW. (12360)
- CONTRACTOR TO COORDINATE EXACT LOCATION OF TRANSACTION WINDOW FRAME WITH COUNTERTOP/CASEWORK INSTALLATION FOR LEVEL, CONTINUOUS, AND FLUSH TRANSACTION COUNTERTOP.
- CASEWORK. (12345)
- SEALANT. (07900)
- WORKSTATION INTEGRATED DUST COLLECTION ACCUMULATOR. (0FD) (00200)
- WORKSTATION INTEGRATED DUST COLLECTION VACUUM MOTOR. (0FD) (00200)
- PROVIDE RIGID 2" PVC VACUUM LINE. INSTALL USING FRICTION FIT ONLY WITH NO GLUE. (09200)
- REMOVABLE KNEESPACE ACCESS PANEL. (12345)
- DENTAL LIGHT. (0FV)
- 3/4" THICK SOLID SURFACE COUNTER WITH 1/8" EASED EDGES. (06400)
- METAL APRON WITH INTEGRATED DUST COLLECTION PIPING. (12345/00200)
- METAL FINISH PANEL. (12345)
- DENTAL SIMULATOR. (0FV)
- MECHANICAL, ELECTRICAL AND PLUMBING UTILITIES. (REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS)
- UNISTRUT TOP/PIPE SUPPORT FRAME. (12345)
- METAL CHASE CAP. (12345)
- 1/2" THICK SOLID SURFACE PANEL. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES INSTALLATION. (12345)
- DENTAL LIGHT MOUNTING BRACKET.
- RUBBER BASE. (09650)
- BLOCKING. (06100/12345)
- COUNTER TOP SUPPORT BRACKET. (12345)
- 1" THICK SOLID SURFACE COUNTERTOP UTILITY CHASE CAP WITH 1/8" EASED EDGES, MECHANICALLY FASTENED. COORDINATE WITH INSTALLATION OF PLUMBING, MECHANICAL AND ELECTRICAL UTILITIES. (08400)
- EXISTING 8" X 6" BOND BEAM WITH REINFORCEMENT AND CONCRETE FILL.
- EXISTING 6" CONCRETE MASONRY UNIT.
- EXISTING BRICK.
- EXISTING FLASHING.
- EXISTING ALUMINUM EXTERIOR WINDOW SYSTEM.
- EXISTING RIGID INSULATION.
- EXISTING EPOXY RESIN WINDOW SILL.
- EXISTING CONCRETE STRUCTURE.
- EXTERIOR METAL EXHAUST LOUVER. REMOVE EXISTING BRICK AS REQUIRED. COORDINATE EXACT CONFIGURATION WITH ARCHITECT/OWNER. (REFER TO MECHANICAL DRAWINGS)
- NEW STRUCTURAL SHELF ANGLE WITH FLASHING. THE FLASHING INTO EXISTING WEATHER MEMBRANE.
- NEW EXHAUST DUCTWORK. (REFER TO MECHANICAL DRAWINGS)
- 5/8" METAL FRAMING STUD WITH HORIZONTAL BRACING BACK TO EXISTING WALL.

INTERIOR PARTITION TYPES



SPECIAL PARTITION ASSEMBLY



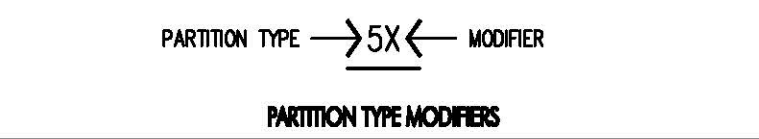
TEMPORARY ENCLOSURE

REFERENCE INTERIOR ENCLOSURE AND DUST ENCAPSULATION IN THE UNIVERSITY OF KENTUCKY SPECIAL CONDITIONS IN THE PROJECT MANUAL.

PARTITION NOTES

- (A) 5/8" GYPSUM WALLBOARD. (09260)
- (B) 2 1/2" METAL STUDS AT 1'-4" O.C. MAXIMUM. (09260)
- (C) 3 5/8" METAL STUDS AT 1'-4" O.C. MAXIMUM. (09260)
- (D) GLASS FIBER ACOUSTICAL INSULATION (TYPE 1). (07210)
- (E) EXTEND TEMPORARY ENCLOSURE TO EXISTING CEILING ASSEMBLY OR TO EXISTING FLOOR OR ROOF ASSEMBLY ABOVE AS REQUIRED TO CONTAIN SMOKE AND AIRBORNE DUST.
- (F) EXISTING/NEW WALL CONSTRUCTION.
- (G) FLOOR AND CEILING RUNNERS SHALL BE MINIMUM WIDTH REQUIRED TO ACCOMMODATE SPECIFIED STUD SIZE, WITH MINIMUM 1" LONG LEGS, FORMED FROM MINIMUM NUMBER 25 MSG GALVANIZED STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 16 INCHES O.C. MAXIMUM.
- (H) STEEL STUDS (NOT SHOWN) SHALL BE CHANNEL SHAPED, WIDTH AS INDICATED, 1 1/4" INCH LEGS, 3/8" INCH FOLDED BACK RETURNS, FORMED FROM MINIMUM NUMBER 25 MSG GALVANIZED STEEL SPACED 16 INCHES O.C. MAXIMUM.
- (J) JOINT TAPE AND COMPOUND SHALL BE VINYL DRY OR PRE-MIXED COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS, PAPER TAPE, 2 INCHES WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
- (K) NOMINAL 8" TALL X 16" WIDE IN THICKNESS TO MATCH ADJACENT CONCRETE MASONRY UNIT. (04220)

PARTITION TYPE LEGEND

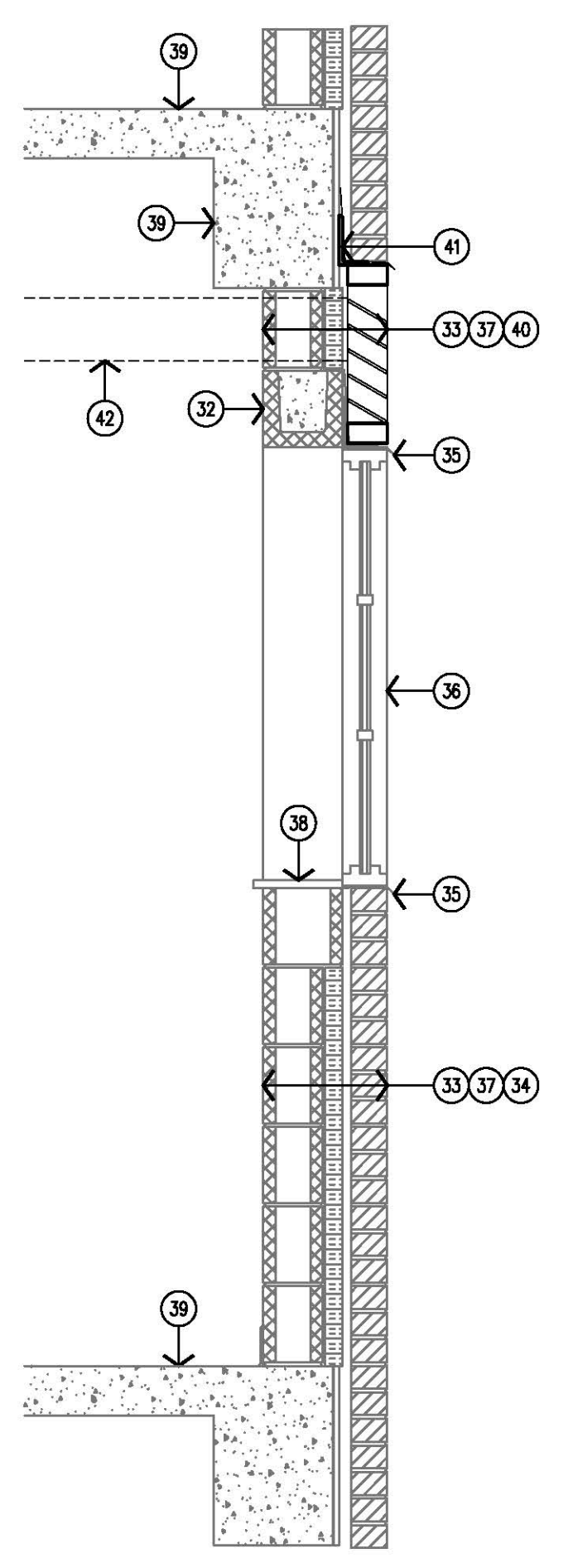
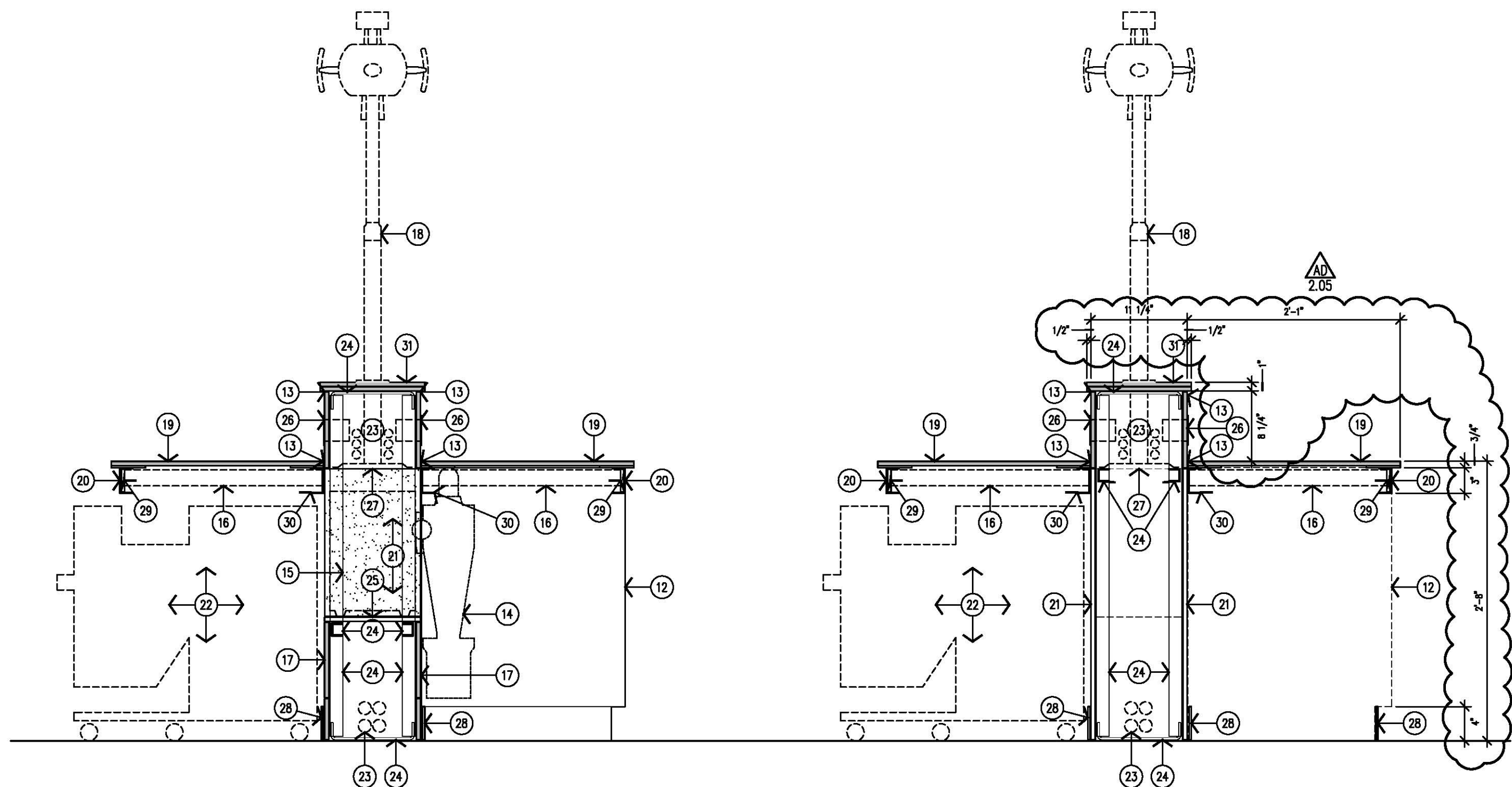


#1 FULL HEIGHT PARTITION. EXTEND METAL STUD, ACOUSTICAL INSULATION AND GYPSUM WALLBOARD, BOTH SIDES, TIGHT TO DECK ABOVE.

SCHEDULE LEGEND		
Door/Frame Finishes		
ABBREVIATION	DESCRIPTION	SPEC SECTION
SC	SOLID CORE WOOD	08211
HM	HOLLOW METAL	08112
-	NO NEW FINISHES SCHEDULED	-

OPENING SCHEDULE

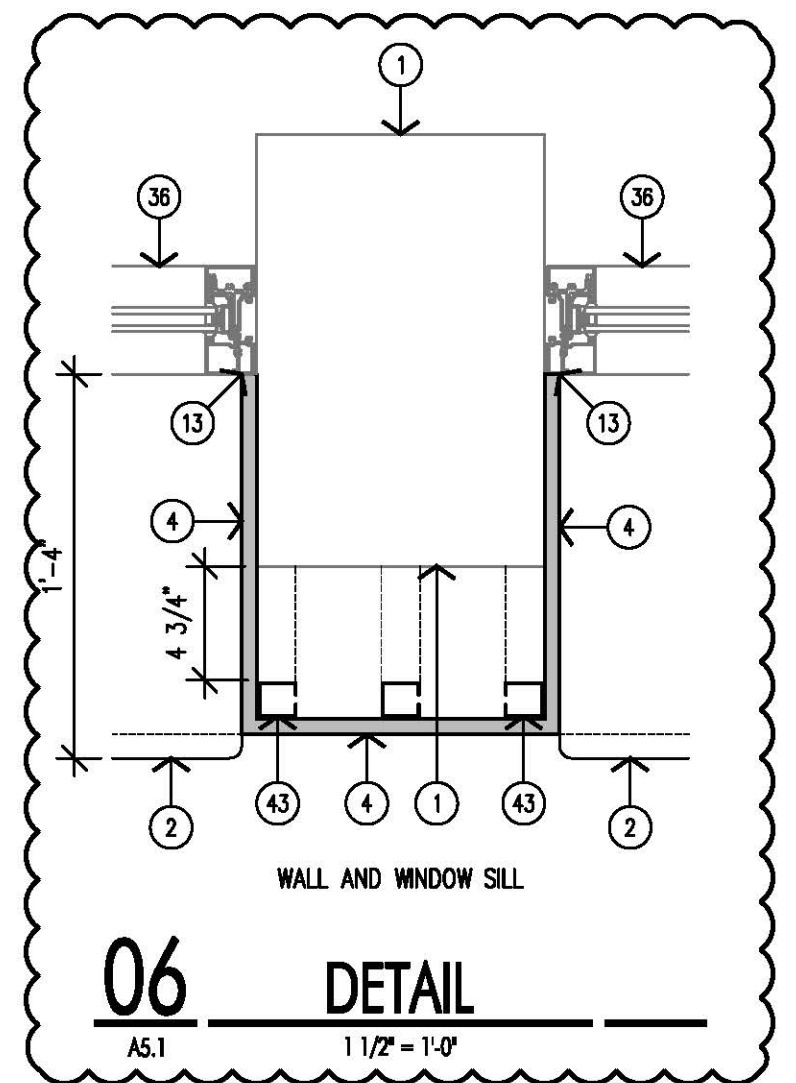
NUMBER	DOOR OPENING SIZE	DOOR		FRAME		HARDWARE GROUP	REMARKS
		MATERIAL	ELEVATION	MATERIAL	ELEVATION		
D811-1	3'-0" x 7'-0"	SC	3	HM	A	H-01	
D811-2	3'-0" x 7'-0"	SC	3	HM	A	H-01	
D811A	3'-0" x 7'-0"	SC	2	HM	A	H-01	
D811B	3'-0" x 7'-0"	SC	1	HM	A	H-02	
D841	3'-0" x 7'-0"	SC	3	HM	A	H-01	
D324	3'-0" x 7'-0"	SC	2	HM	A	H-01	
D811E	3'-0" x 7'-0"	SC	2	HM	A	H-03	



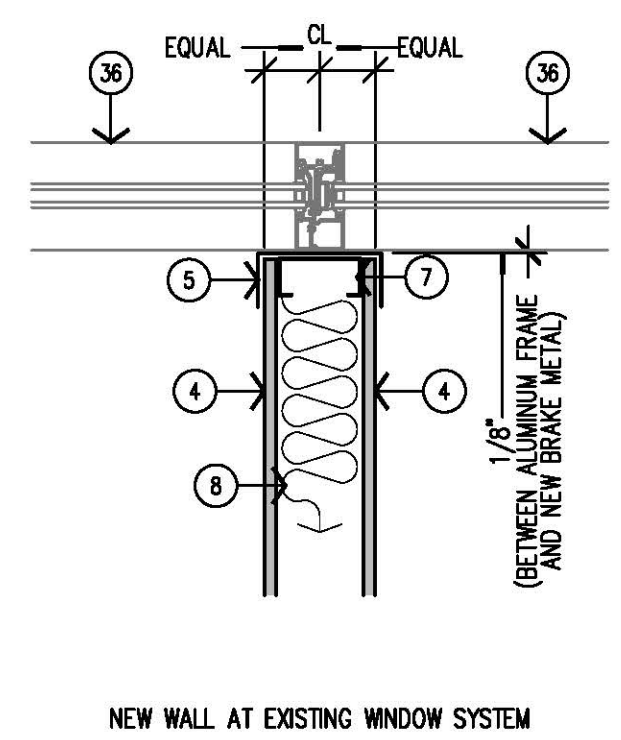
09 CASEWORK SECTION
A5.1 1" = 1'-0"

08 CASEWORK SECTION
A5.1 1" = 1'-0"

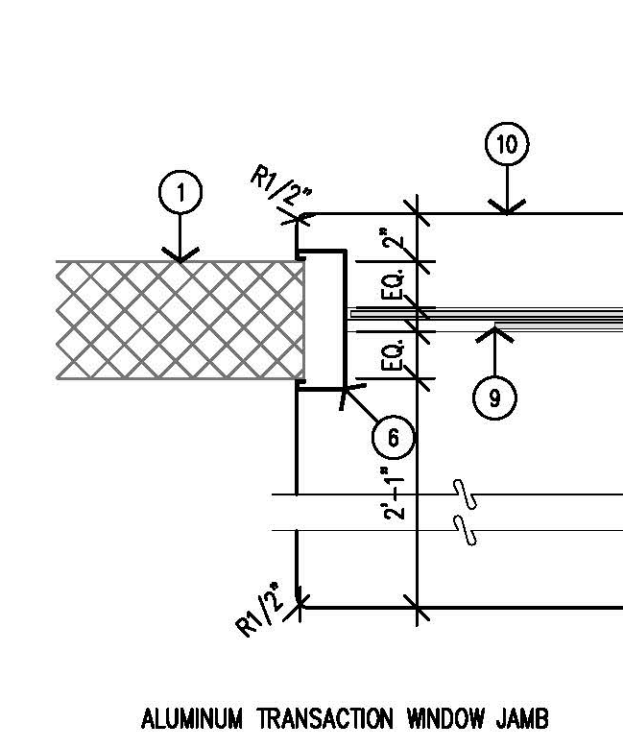
07 EXISTING EXTERIOR WALL SECTION
A5.1 3/4" = 1'-0"



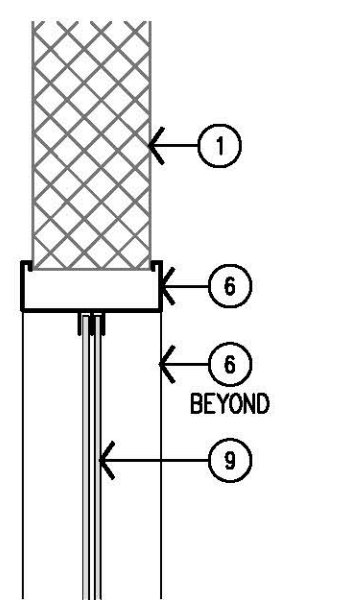
06 DETAIL
A5.1 1 1/2" = 1'-0"



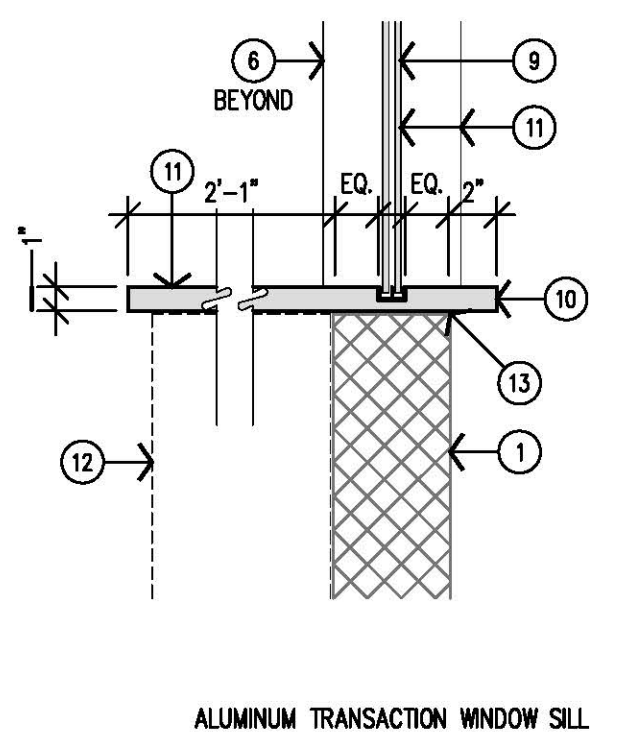
05 DETAIL
A5.1 1 1/2" = 1'-0"



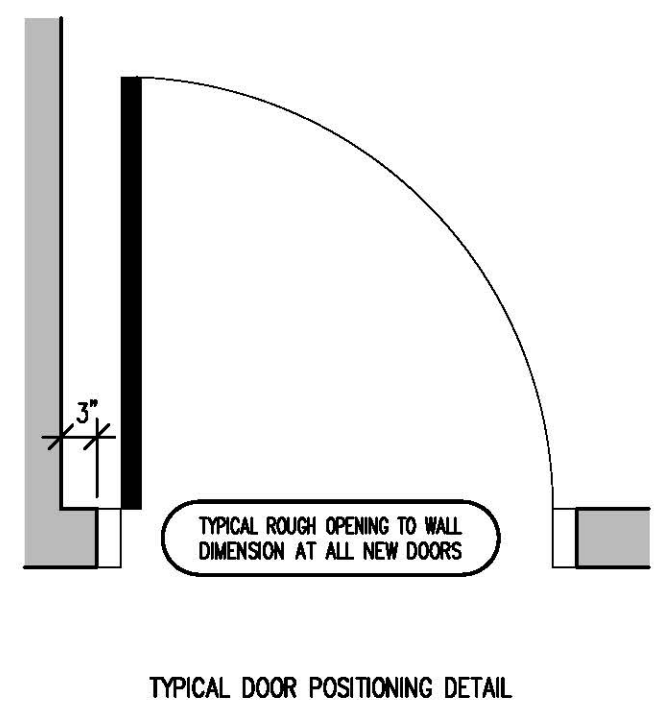
04 DETAIL
A5.1 1 1/2" = 1'-0"



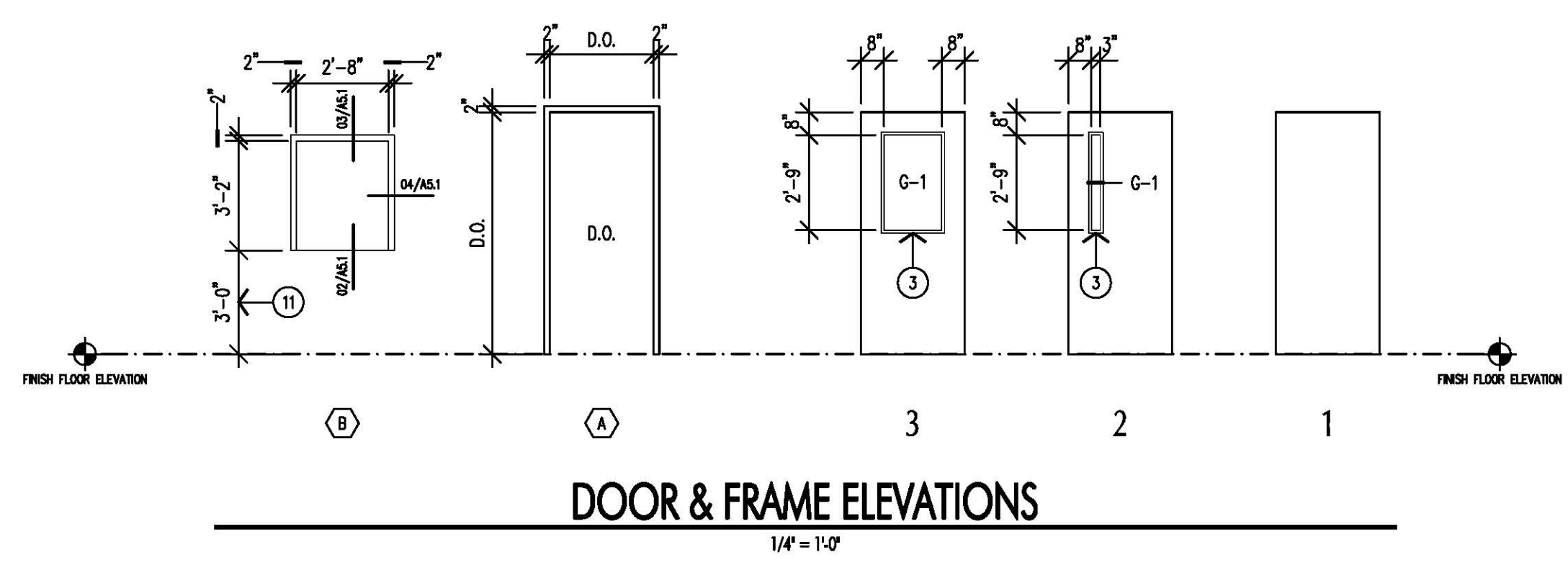
03 DETAIL
A5.1 1 1/2" = 1'-0"



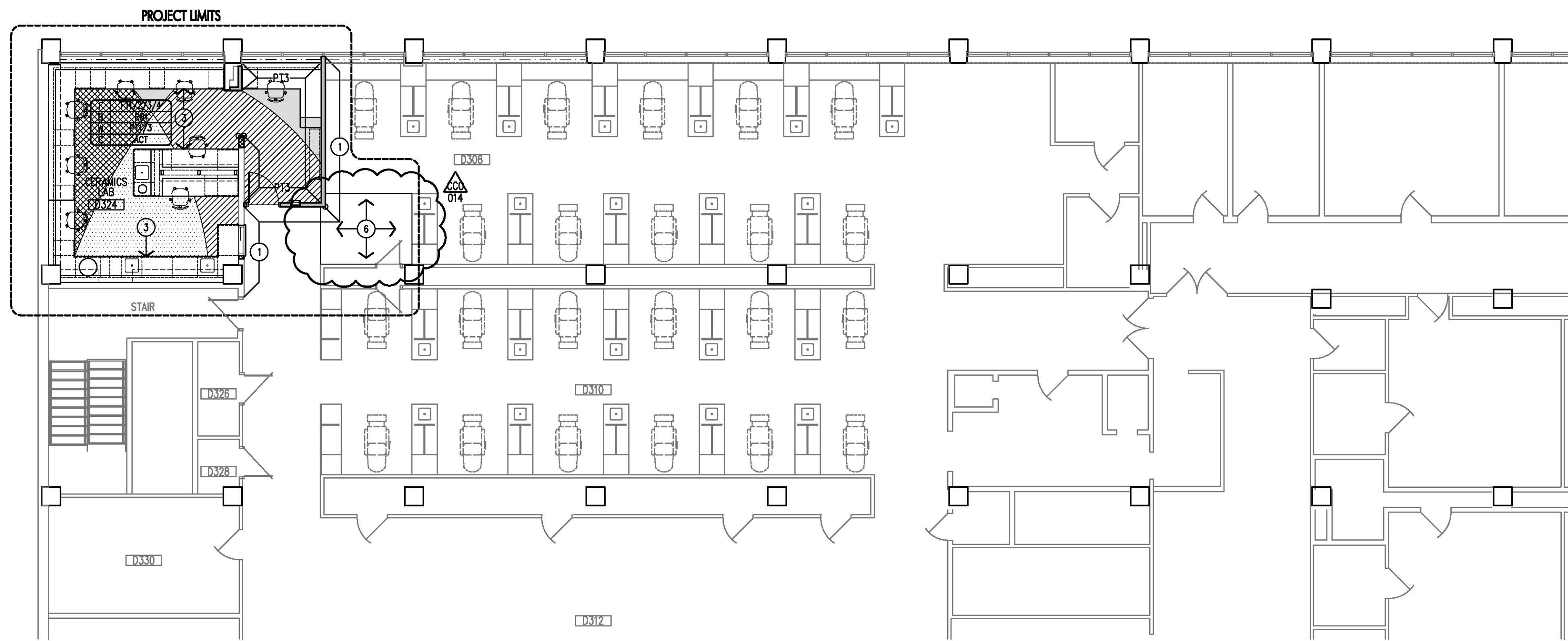
02 DETAIL
A5.1 1 1/2" = 1'-0"



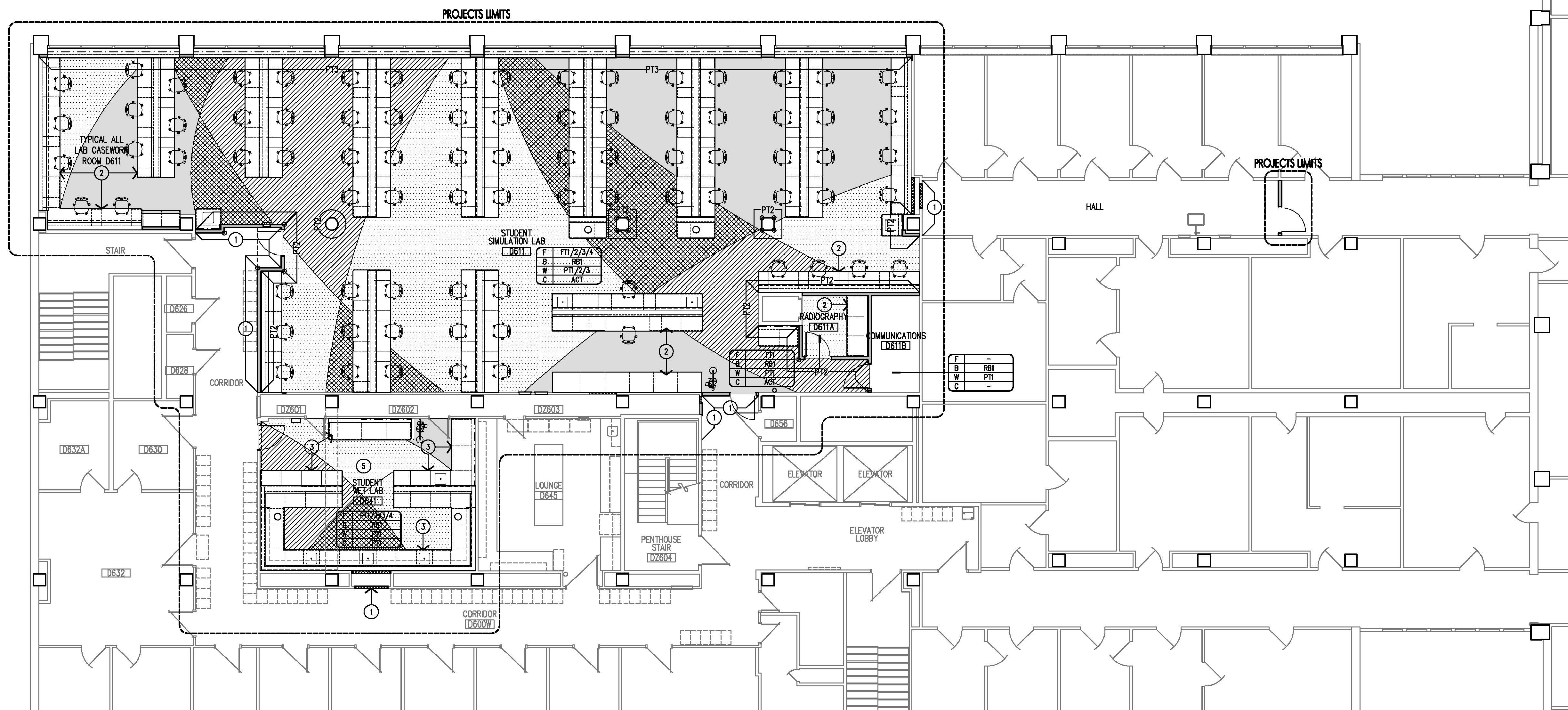
01 DETAIL
A5.1 3/4" = 1'-0"



DOOR & FRAME ELEVATIONS
1/4" = 1'-0"

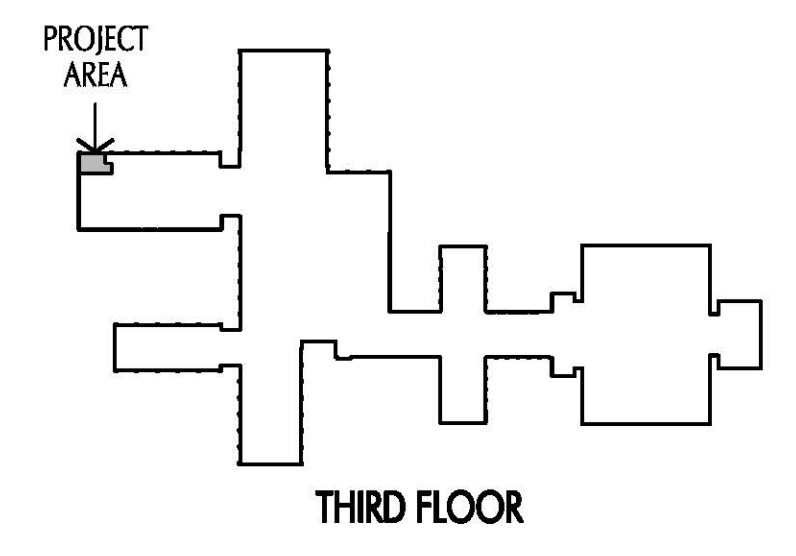


02
A6.0
PARTIAL
THIRD FLOOR PLAN
1/8" = 1'-0"
Plan North True North

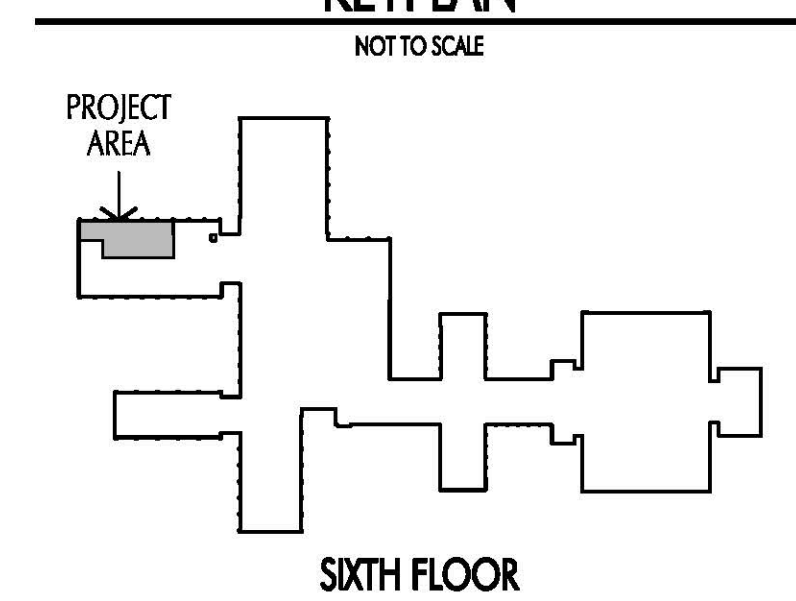


01
A6.0
PARTIAL
SIXTH FLOOR PLAN
1/8" = 1'-0"
Plan North True North

KEYPLAN
NOT TO SCALE



KEYPLAN
NOT TO SCALE



GENERAL NOTES

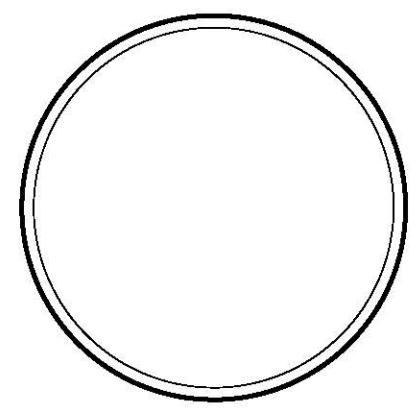
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
- PROVIDE ADA COMPLIANT TRANSITION/THRESHOLD ELEMENTS AS REQUIRED AT ALL INTERSECTIONS OF DIFFERENT FLOOR FINISHES AND DOOR OPENINGS.
- CLEAN, REFRESH, & REPAIR ALL EXISTING DOORS WITHIN PROJECT LIMITS TO ORIGINAL WORKING ORDER.
- ALL EXISTING WALL PATCHING & EXISTING WALL INFILL SHALL MATCH CONSTRUCTION OF ADJACENT WALL. FINISHES REQUIRED IN THESE AREAS SHALL BE AS INDICATED.
- CAD DRAWING WITH FLOOR PATTERN RADIUS/DIMENSIONS SHALL BE PROVIDED TO CONTRACTOR UPON AWARD. RADIUS OF FLOOR PATTERNS SHALL BE ACCEPTABLE WITH 1/4" - 3/8" TOLERANCE.

FINISH NOTES

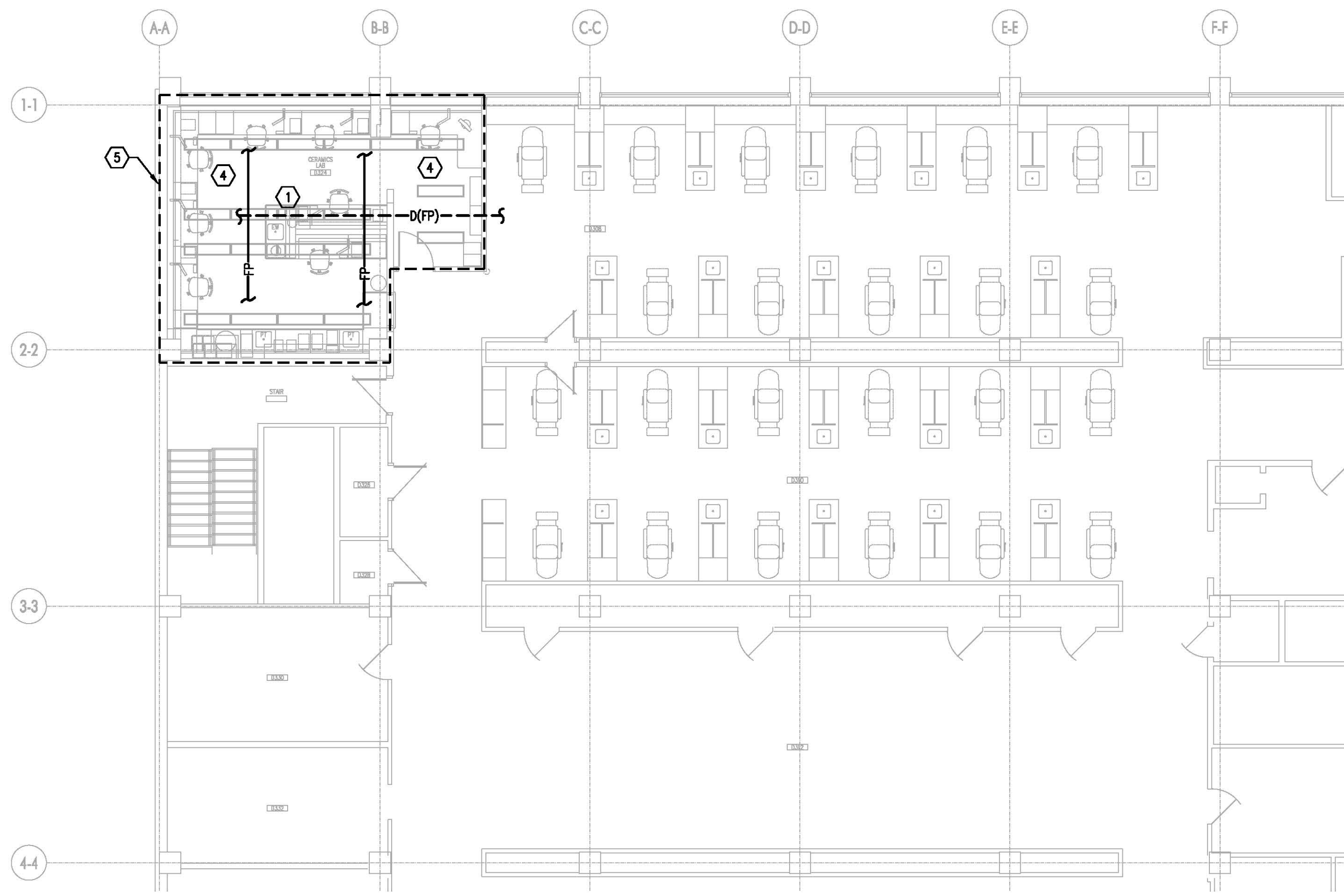
- WALL TREATMENTS TO MATCH EXISTING. (PAINT, BASE, ETC.)
- LAB CASEWORK TO BE SP1 VERTICAL SURFACES, & SSI COUNTERTOPS/BACKSPASHES.
- LAB CASEWORK TO BE SP1 VERTICAL SURFACES, & ER1 COUNTERTOPS/BACKSPASHES.
- ALL WALLS TO BE PAINTED PT1 UNLESS OTHERWISE NOTED.
- NO CEILING THIS AREA. OVERHEAD PIPING/DUCTWORK/STRUCTURE TO BE EXPOSED, SHALL BE PAINTED WHITE. CLEAN EXISTING ITEMS TO REMAIN AS REQUIRED TO RECEIVE PAINT. (0990)
- PROVIDE ARMSTRONG STANDARD EXCELON VCT 51899 - COOL WHITE, THIS AREA.

FINISH SCHEDULE

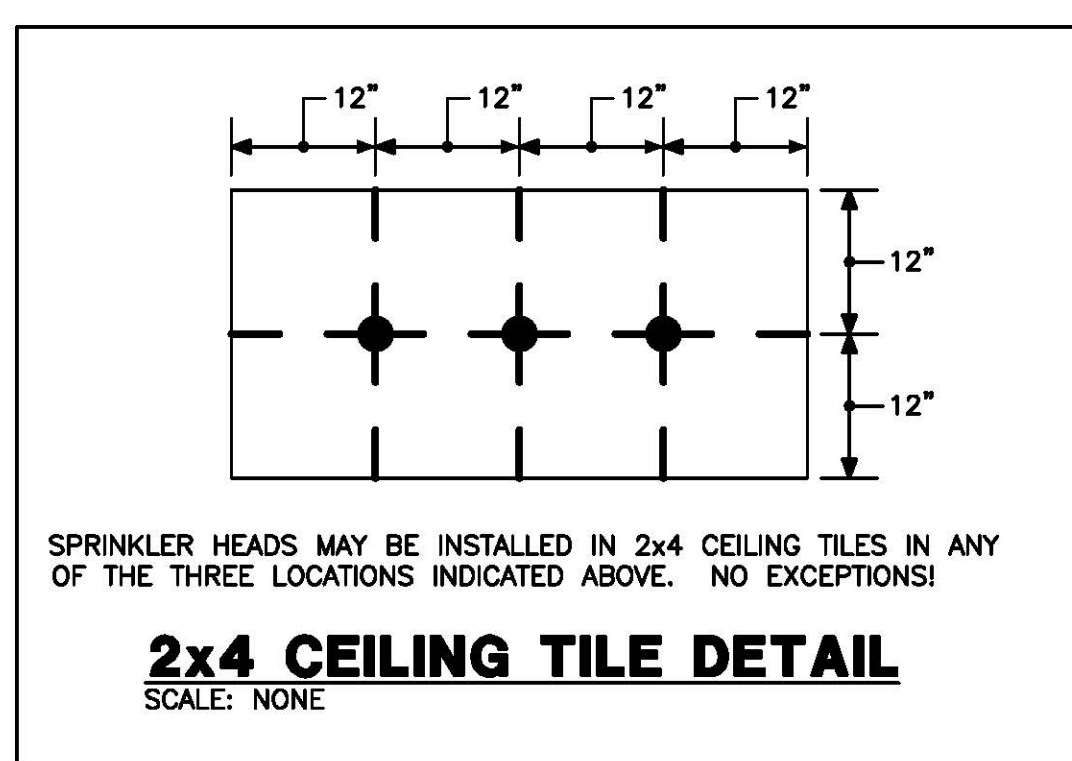
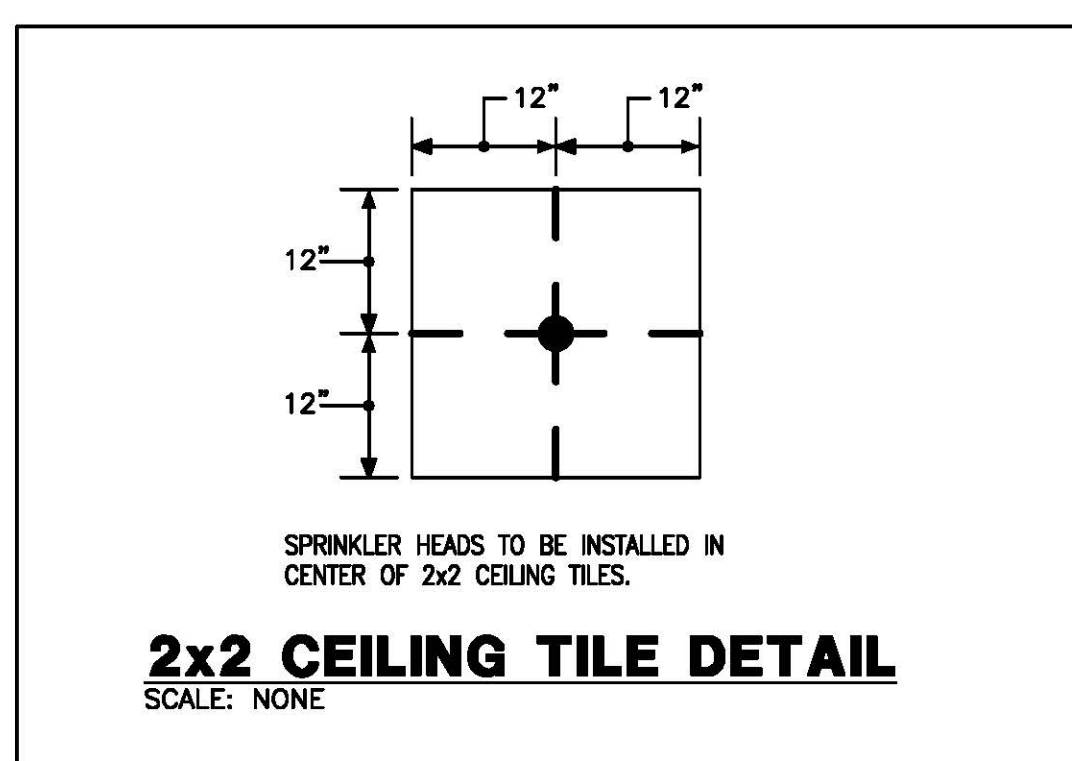
Floor Finishes (F)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
FT1	FLOORING TILE, 12 X 24 ARMSTRONG, RAFFIA 55800 SHOWDRIFT	09650
FT2	FLOORING TILE, 12 X 24 ARMSTRONG, RAFFIA 55801 PLATINUM	09650
FT3	FLOORING TILE, 12 X 24 ARMSTRONG, RAFFIA 55812 SKY	09650
FT4	FLOORING TILE, 12 X 24 ARMSTRONG, RAFFIA 55805 COCOA	09650
CONC.	EXISTING CONCRETE FLOOR	-
-	NO NEW FINISHES SCHEDULED	-
Base Finishes (B)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
RB1	RUBBER BASE MANNINGTON 4" HIGH BLUERIDGE	09650
-	NO NEW FINISHES SCHEDULED	-
Wall Finishes (W)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
PT1	SHERWIN WILLIAMS, SW7070 SITE WHITE	09900
PT2	SHERWIN WILLIAMS, SW7073 NETWORK GRAY	09900
PT3	SHERWIN WILLIAMS, SW8527 BLISSFUL BLUE	09900
-	NO NEW FINISHES SCHEDULED	-
Casework Finishes (CW)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
SP1	STEEL POWDER COAT THERMO SCIENTIFIC HAMILTON PW PETAL WHITE 1362	06400
ER1	EPOXY RESIN (ROOMS D324/D641) MARINE EDGE TREATMENT AT NET LOCATIONS THERMO SCIENTIFIC HAMILTON #03 GRAY	12345
SS1	SOLID SURFACE CORIAN (ROOMS D611/D611A) CORIAN, SILVERITE	06400
-	NO NEW FINISHES SCHEDULED	-
Door/Frame Finishes (D)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
HM	HOLLOW METAL FRAME TO BE PAINTED PT2	08112/09900
SC	SOLID CORE TO MATCH EXISTING DOOR FINISH	08210
-	NO NEW FINISHES SCHEDULED	-
Ceiling Finishes (C)		
ABBREVIATION	DESCRIPTION	SPEC SECTION
ACT1	ACOUSTICAL CEILING TILE	09511
PT1	PAINTED CEILING SHERWIN WILLIAMS, SW7070 SITE WHITE	09900
PT10	PAINTED CEILING STANDARD CEILING WHITE	09900
-	NO NEW FINISHES SCHEDULED	-



These Record Documents have been prepared based on information provided by others. The Consultant has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions that may be incorporated as a result of erroneous information provided by others.



02
PARTIAL THIRD FLOOR
FIRE PROTECTION PLAN
FP1.0
1/8" = 1'-0"
NORTH



FIRE PROTECTION NOTES:

- ALL AREAS ARE PRESENTLY PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR SHALL MODIFY THE SYSTEM AS REQUIRED TO MAINTAIN 100% PROTECTION, IN ACCORDANCE WITH NFPA 13, KENTUCKY BUILDING CODE AND SPECIFICATIONS.
- REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.
- WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.
- INSTALL HEADS IN CENTER OF 2' X 2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2' X 4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2' X 4' TILE IF IT IS SCORED TO LOOK LIKE TWO 2' X 2' TILES.
- ALL FIRE PROTECTION PIPE SIZES SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA-13.
- ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE SPRINKLER HEADS.
- THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST PRIOR TO SUBMITTING SHOP DRAWINGS.
- PROVIDE FIRE WATCH OF AREA WHILE SPRINKLER SYSTEM IS SHUT-DOWN DURING CONSTRUCTION.
- ALL PIPING SHALL BE 6" ABOVE CEILING. NO EXCEPTIONS.

FLOW DATA

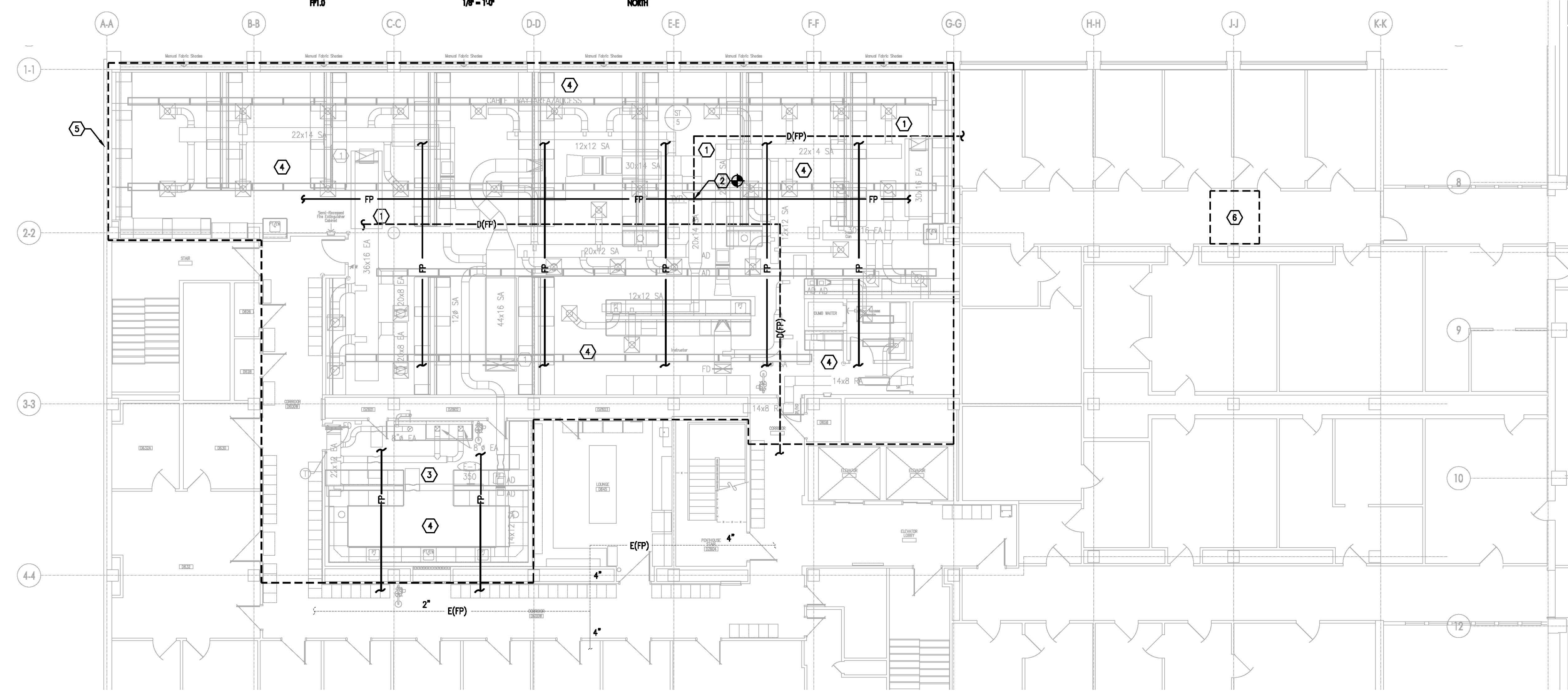
STATIC PSI: 80
RESIDUAL PSI: 210
FLOW GPM: 1500
DURATION: CONTINUOUS
DATE & TIME: 8/13/2012
SOURCE OF WATER: CITY SUPPLY AND FIRE PUMP
SOURCE OF DATA: FIRE PUMP TEST.
HAZARD: LIGHT & ORDINARY
OCCUPANCY OF BUILDING: CLINIC

GENERAL NOTES:

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW. FIELD VERIFY EXACT REQUIREMENTS.
- ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.
- DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

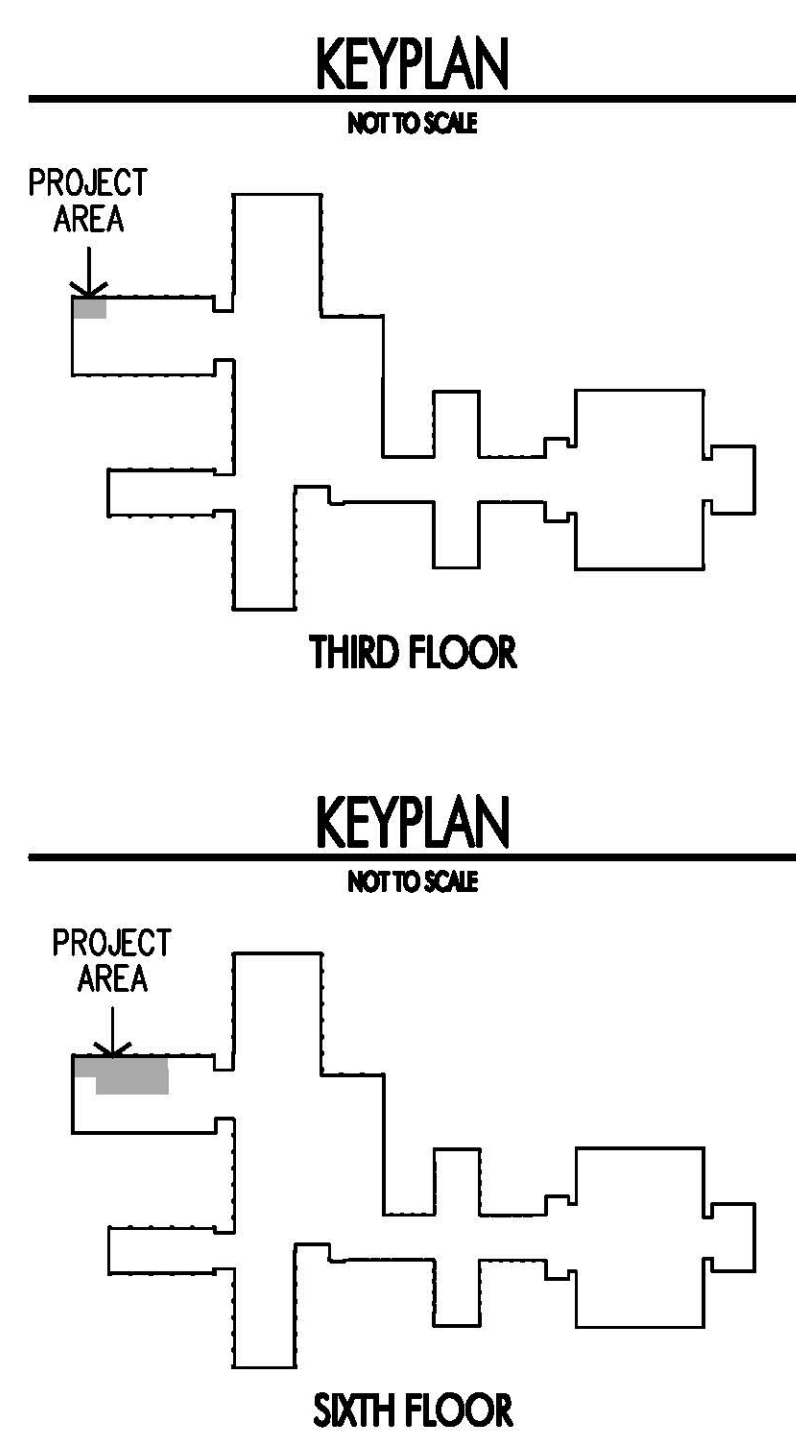
TAGGED NOTES:

- REWORK EXISTING FIRE PROTECTION MAIN.
- CONNECT TO EXISTING FIRE PROTECTION MAIN. FIELD VERIFY EXACT LOCATION.
- ALL PIPING IN THE STUDENTS WET LAB D641 SHALL BE PAINTED WHITE AND UPRIGHT SPRINKLER HEADS SHALL BE INSTALLED.
- ALL SPRINKLER HEADS AND BRANCH PIPING SHALL BE REPLACE WITH NEW.
- THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100% "WET" TYPE SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13. PROVIDE EXTENDED COVERAGE, SIDEWALL HEADS AS REQUIRED. NOTE THAT SPRINKLER MAINS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT MAINTENANCE/SERVICE, AND ARCHITECTURAL FINISH CLEARANCES.
- REWORK EXISTING FIRE PROTECTION DUE TO NEW DOOR BEING ADDED.



01
PARTIAL SIXTH FLOOR
FIRE PROTECTION PLAN
FP1.0
1/8" = 1'-0"
NORTH

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GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND, OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.)
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL, WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES OR ANY PLUMBING ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HUNG CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL OR CEMENT. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- ALL PIPING, DUCTWORK, EQUIPMENT, ETC SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF ANY CEILING.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH UK CAMPUS CONSTRUCTION STANDARDS.

SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

- VACUUM BREAKER
- PIPE ELBOW TURNING UP/TURNING DOWN
- CONNECT TO EXISTING (VERIFY EXACT LOCATION)
- BALANCING VALVE
- UNION
- PETE'S PLUG
- CHECK VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- STRAINER
- O S & Y VALVE (GATE)
- PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
- BALL VALVE
- SAFETY RELIEF VALVE
- THERMOMETER
- PRESSURE SWITCH
- TAMPER SWITCH
- FLOW SWITCH
- SAW
- SAW
- SAW
- FORCED MAIN
- VENT PIPING
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER SUPPLY
- DOMESTIC RECIRCULATING HOT WATER
- ROOF LEADER PIPING
- OVERFLOW ROOF LEADER PIPING
- ACID WASTE VENT PIPING
- ACID WASTE PIPING
- VACUUM PIPING
- NATURAL GAS PIPING
- COMPRESSED AIR PIPING
- EXISTING PIPING (THIN LINE)
- PIPING TO BE DEMOLISHED
- ABANDONED EXISTING PIPING (THIN SOLID LINE)
- PIPING TEE (TURNED UP/DOWN)
- CLEANOUT IN CEILING SPACE
- FLOOR CLEANOUT
- EXTERIOR CLEANOUT
- GAS LINE
- STORM SEWER PIPING
- FIRE PROTECTION LINE
- LIMIT OF DEMOLITION
- EXISTING PIPING TO BE REMOVED
- MECHANICAL EQUIPMENT DESIGNATOR
- LIMITED AREA SPRINKLER HEAD
- FLOOR DRAIN DESIGNATOR
- PLUMBING FIXTURE DESIGNATOR
- ROOF DRAIN DESIGNATOR

- AFR ABOVE FINISHED FLOOR
- AFR ABOVE FINISHED ROOF
- C.L. CAST IRON
- CW DOMESTIC COLD WATER
- DN DOWN
- EV EVACUATION (WASTE ANESTHETIC GAS DISPOSAL)
- FHV FIRE HOSE VALVE WITH CABINET
- FFWH FREEZE PROOF WALL HYDRANT
- HB HOSE BIBB
- HW DOMESTIC HOT WATER
- HW IN ACCORDANCE WITH
- ID INSIDE DIMENSION
- IE INVERT ELEVATION
- MH MANHOLE
- NTS NOT TO SCALE
- NO NOT IN CONTRACT
- NO NORMALLY OPEN
- NC NORMALLY CLOSED
- OD OUTSIDE DIMENSION
- OR OPEN RECEPTACLE
- ORL OVERFLOW ROOF LEADER
- PRV PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)
- PSI POUNDS PER SQUARE INCH
- RHW DOMESTIC RECIRCULATING HOT WATER
- RL ROOF LEADER
- SCW SOFT DOMESTIC COLD WATER
- SRI SANITARY RISER
- TB THRUST BLOCK
- TE TOP ELEVATION
- TP TRAP PRIMER
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED
- V, VAC VACUUM
- VTR VENT THRU ROOF
- OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
- CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
- OFCO OWNER FURNISHED, OWNER INSTALLED

PHASING NOTE:

THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL THE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

NOTE:

WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

HAZARDOUS MATERIAL NOTE:

THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FLAMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

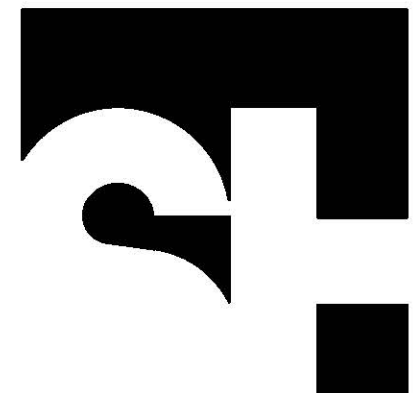
IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PLUMBING FIXTURE SCHEDULE

GENERAL NOTES:					
1. REFER TO MECHANICAL SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.					
2. PIPE SIZE TYPICAL, UNLESS NOTED OTHERWISE ON RISERS OR PLANS.					
MARK	DESCRIPTION	HW	CW	WASTE	VENT
P-1A	LAB SINKS SINK AND TRIM SPECIFIED WITH LABORATORY CASEWORK, COORDINATE WITH CASEWORK DRAWINGS. PROVIDE WITH CHROME SUPPLIES, 3/4" ANGLE STOPS, ESCUTCHEONS, TAILPIECE AND KENTUCKY P-TRAP. PROVIDE WITH MODEL ZURN Z-1180 PLASTER TRAP. FAUCETS SHALL HAVE METAL STEMS AND/OR CARTRIDGES; NO PLASTIC PARTS ALLOWED.	-	-	-	-
P-2A	EMERGENCY EYE/FACE WASH DECK MOUNTED DECK MOUNTED EYE/FACE WASH PROVIDED WITH LABORATORY CASEWORK, COORDINATE WITH CASEWORK DRAWINGS. PROVIDE WITH STAY-OPEN BALL VALVE. EACH SPRAY HEAD SHALL HAVE A REMOVABLE ABS PLASTIC SPRAY COVER. PROVIDE TEPID WATER TO EYE/FACE WASH UNIT. 1/2" INLETS CHECK AND STOP VALVES.	1/2"	1/2"	-	-
P-2B	COMBINATION EMERGENCY SHOWER/ EYE WASH UNIT GUARDIAN MODEL G8F1909PCC-TM BARRIER-FREE WALL MOUNTED COMBINATION EYE/FACE WASH AND SHOWER. ALL-POLISHED CHROME PLATED BRASS CONSTRUCTION. 10" DIAMETER STAINLESS STEEL SHOWER HEAD, 1 1/2" STAINLESS STEEL EYE/FACE WASH BOWL WITH FOUR SPRAY HEADS. EACH HEAD HAS A FLIP TOP DUST COVER. 1" IPS CHROME PLATED BRASS STAY-OPEN BALL VALVE WITH STAINLESS STEEL ACTUATING ARM AND 47 1/2" STAINLESS STEEL PULL ROD. 1 1/4" WATER SUPPLY AND 1 1/2" DRAIN OUTLET. PROVIDE WITH G3000 THERMOSTATIC MIXING VALVE. PRECISELY BLENDS HOT AND COLD WATER TO DELIVER WARM TEPID WATER AS REQUIRED BY ANSI Z358.1 PROVIDE WITH AUXILIARY CONTACTS TO CONNECT TO DDC SYSTEM	1 1/4"	1 1/4"	2"	2"
P-3A	AIR AND GAS CONNECTION LAB TURRET VALVES SHALL BE PROVIDED BY LABORATORY EQUIPMENT SUPPLIER; ALL CONNECTIONS SHALL BE MADE BY PLUMBING CONTRACTOR. COORDINATION REQUIREMENTS WITH LABORATORY EQUIPMENT DRAWINGS.	-	-	-	-
P-3B	AIR GAS AND VACUUM CONNECTION LAB TURRET VALVES SHALL BE PROVIDED BY LABORATORY EQUIPMENT SUPPLIER; ALL CONNECTIONS SHALL BE MADE BY PLUMBING CONTRACTOR. COORDINATION REQUIREMENTS WITH LABORATORY EQUIPMENT DRAWINGS.	-	-	-	-
P-3C	AIR CONNECTION LAB TURRET VALVES SHALL BE PROVIDED BY LABORATORY EQUIPMENT SUPPLIER; ALL CONNECTIONS SHALL BE MADE BY PLUMBING CONTRACTOR. COORDINATION REQUIREMENTS WITH LABORATORY EQUIPMENT DRAWINGS.	-	-	-	-
TP-1	TRAP PRIMER PRECISION PLUMBING OR EQUAL ELECTRIC TRAP PRIMER MANIFOLD SYSTEM, REFER TO MECHANICAL SPECIFICATIONS.	-	1/2"	-	-
FD-1	FLOOR DRAIN ZURN Z-415 WITH 6" ROUND TOP, TYPES STRAINER CAST IRON TRAP WITH PRIMER FITTING.	-	-	3"	2"



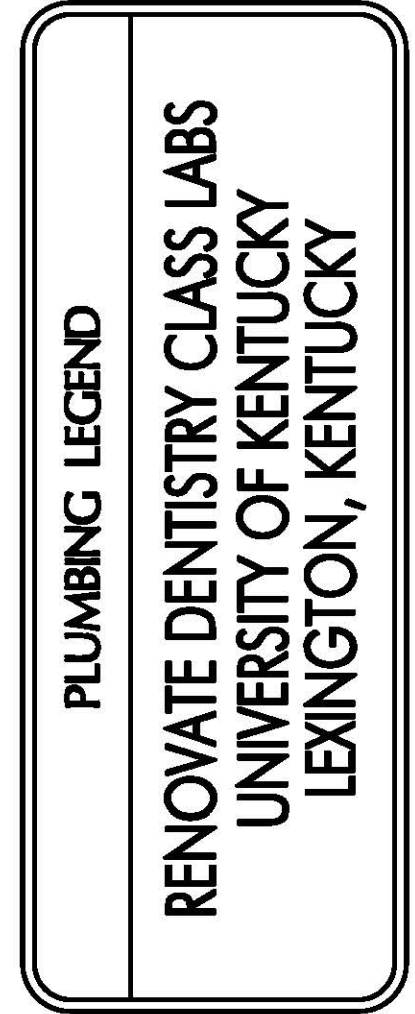
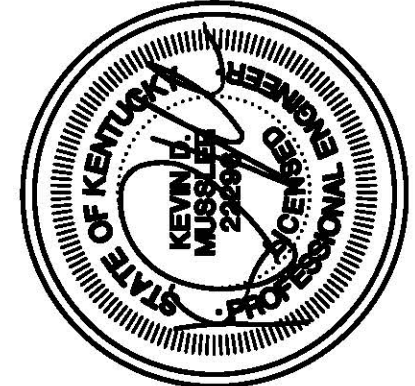
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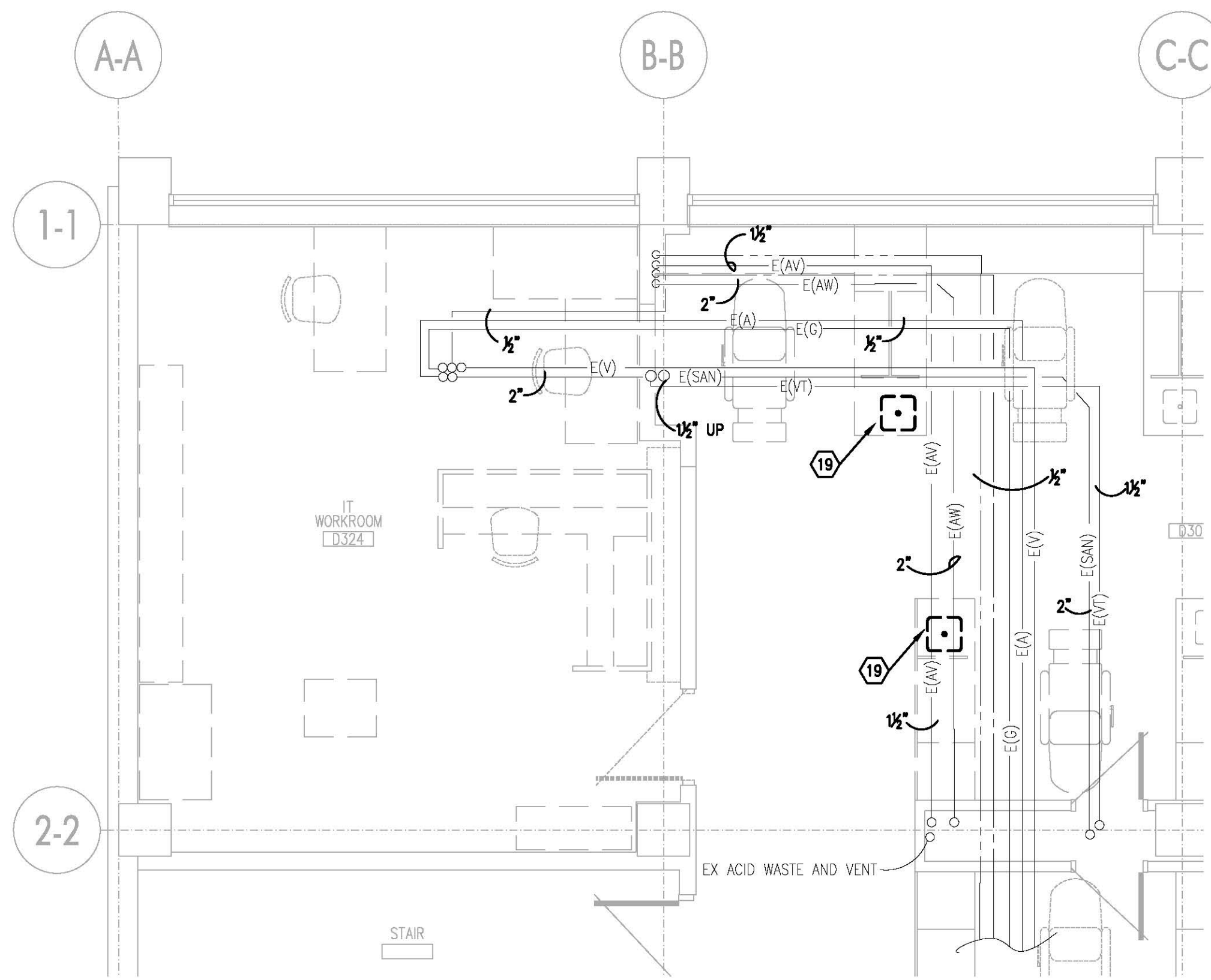


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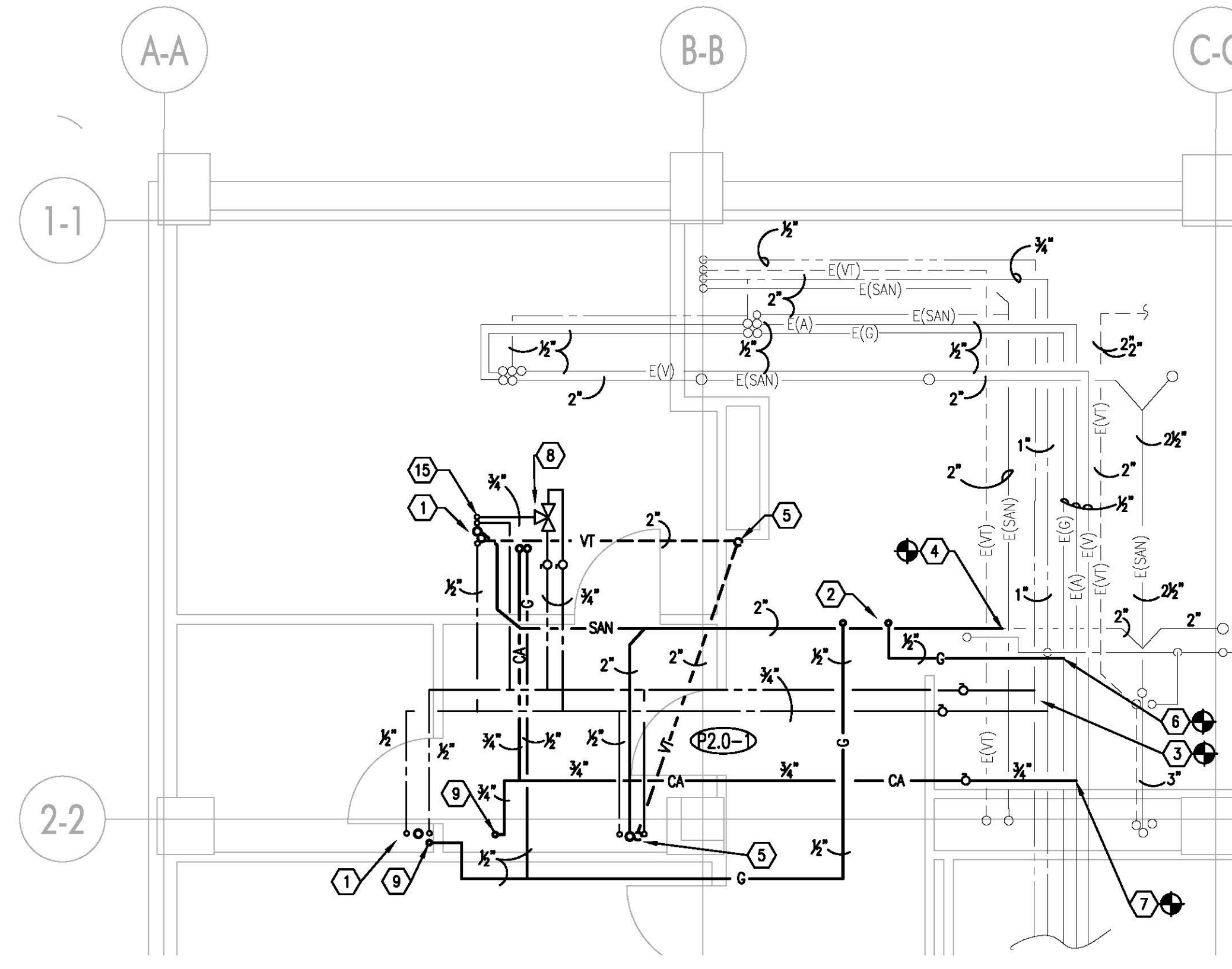
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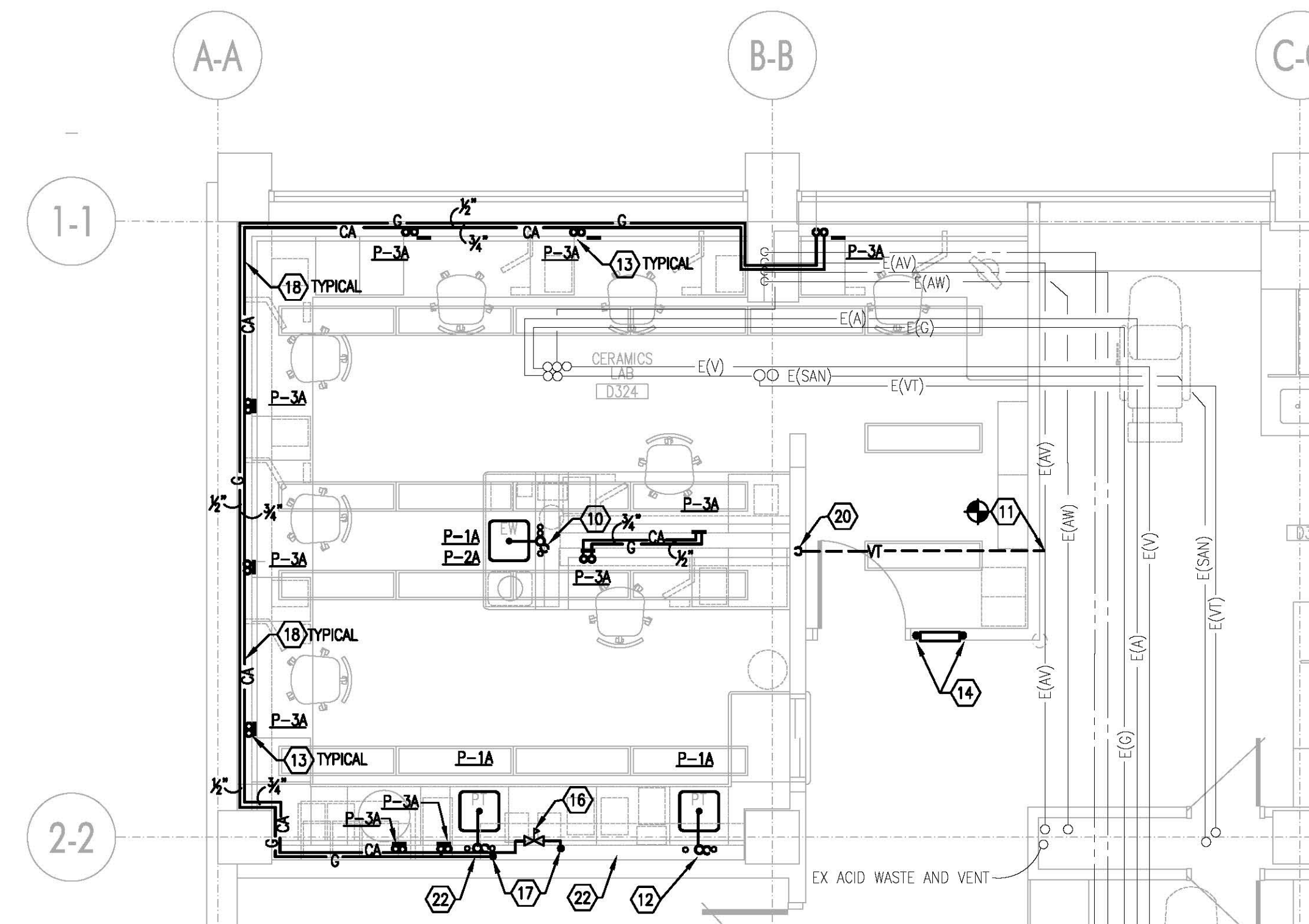
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02
P2.0
PARTIAL THIRD FLOOR
PLUMBING DEMOLITION PLAN
1/4" = 1'-0"
NORTH



03
P2.0
PARTIAL SECOND FLOOR
PLUMBING PLAN
1/4" = 1'-0"
NORTH



01
P2.0
PARTIAL THIRD FLOOR
PLUMBING PLAN
1/4" = 1'-0"
NORTH

GENERAL NOTES:

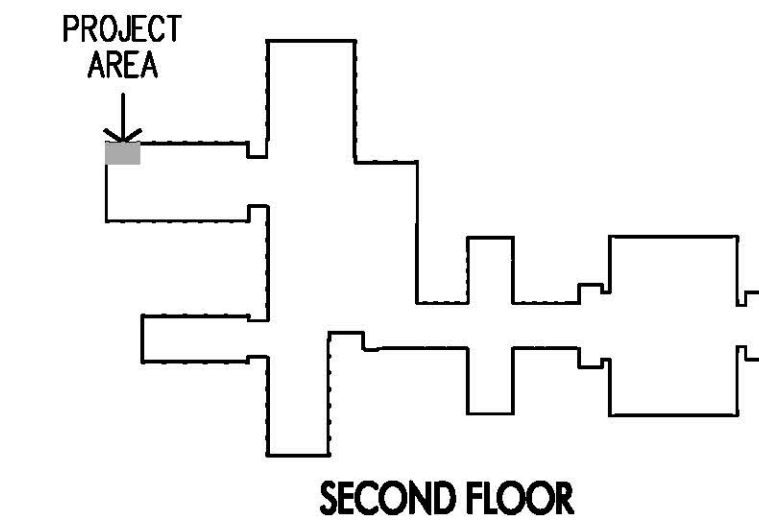
- A. CONTRACTOR SHALL REMOVE FLOOR SLAB AND WALLS WHERE NEEDED, AND DISPOSE OF ALL MATERIAL FROM CONSTRUCTION SITE.
- B. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.
- C. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF CEILING TILES AND REINSTALLATION IN AREAS WHERE CEILING ARE NOT BEING REPLACED. IF A TILE IS BROKEN OR DAMAGED DURING REMOVAL, THE CONTRACTOR SHALL REPLACE WITH A SIMILAR NEW TILE AT NOW ADDITIONAL COST TO THE OWNER.

TAGGED NOTES:

1. 2" SANITARY, 2" VENT AND 1/2" DOMESTIC WATER LINES UP. REFER TO THIRD FLOOR PLAN THIS SHEET.
2. 1/2" GAS LINES UP TO SHUT-OFF VALVE. REFER TO THIRD FLOOR PLAN THIS SHEET.
3. CONNECT TO EXISTING HOT AND COLD WATER LINES AND INSTALL SHUT-OFF VALVES. FIELD VERIFY EXACT TIE-IN LOCATION.
4. CONNECT TO EXISTING 2" SANITARY. FIELD VERIFY EXACT TIE-IN LOCATION.
5. 2" VENT AND 2" SANITARY UP TO THIRD FLOOR. REFER TO THIRD FLOOR PLAN THIS SHEET FOR CONTINUATION.
6. CONNECT TO EXISTING GAS MAIN. FIELD VERIFY EXACT TIE-IN LOCATION.
7. CONNECT TO EXISTING COMPRESSED AIR MAIN. FIELD VERIFY EXACT TIE-IN LOCATION.
8. MIXING VALVE FOR EMERGENCY EYEWASH. REFER TO SCHEMATIC ON PLAN SHEET P5.0.
9. 3/4" VACUUM AND 1/2" GAS UP. REFER TO THIS SHEET FOR CONTINUATION.
10. 2" LOOP VENT DOWN. REFER TO SECOND FLOOR FOR CONTINUATION ON THIS SHEET.
11. CONNECT TO EXISTING VENT. FIELD VERIFY EXACT TIE-IN LOCATION.
12. 2" SANITARY, 2" LOOP VENT, 1/2" HOT AND COLD WATER PIPING DOWN. REFER TO SECOND FLOOR PLAN THIS SHEET FOR CONTINUATION.
13. 1/2" GAS AND 3/4" COMPRESSED AIR LINES UP TO CONNECTORS IN CASEWORK.
14. AMICO ALERT-1 SERIES ZONE VALVE BOX WITH SHUT-OFF VALVE. 1/2" GAS LINES DOWN. REFER TO THIS SHEET FOR CONTINUATION.
15. 3/4" TEMPERED WATER LINE UP. REFER TO THIS SHEET FOR CONTINUATION.
16. INGERSOLL RAND COMPRESSED AIR REGULATOR IN CASEWORK SET AT 90-PSI.
17. 3/4" COMPRESSED AIR AND 1/2" GAS DOWN. REFER TO NEW SECOND FLOOR PLAN THIS SHEET FOR CONTINUATION.
18. 3/4" COMPRESSED AIR AND 1/2" GAS LINE IN CASE WORK CHASE. SUPPORT PIPING TO WALL WITH PIPE STRAP/CLAMPS.
19. REMOVE EXISTING SINK AND ALL ASSOCIATED PIPING. CAP EXISTING SANITARY, WATER AND VENT PIPING BACK AT MAINS.
20. 2" VENT DOWN. REFER TO SECOND FLOOR PLAN THIS SHEET FOR CONTINUATION. CONTRACTOR SHALL CUT AND PATCH EXISTING CMU WALL. REFINISH WALL TO MATCH EXISTING.
21. CONNECT TO EXISTING 2" SANITARY. FIELD VERIFY EXACT TIE-IN LOCATION.
22. 2" LOOP VENT AND 2" SANITARY IN UTILITY CASEWORK CHASE. REFER TO RISER DIAGRAM ON PLAN SHEET P5.0.

KEYPLAN

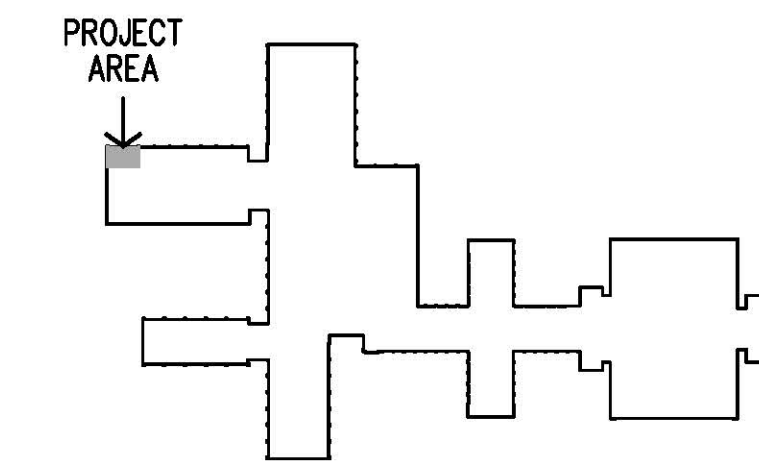
NOT TO SCALE



SECOND FLOOR

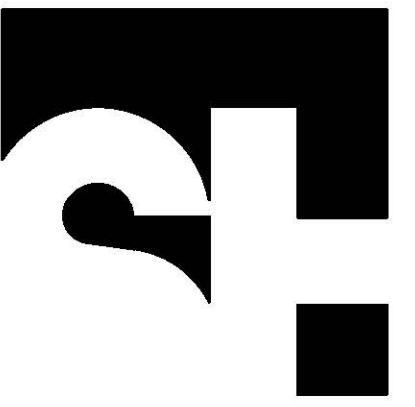
KEYPLAN

NOT TO SCALE



THIRD FLOOR

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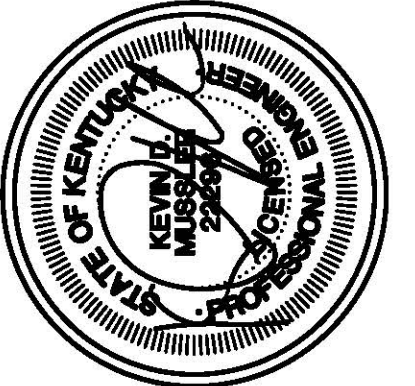
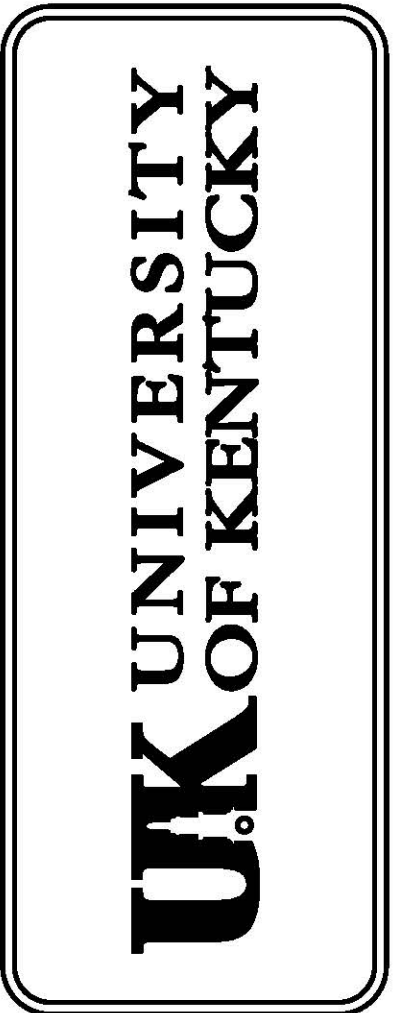
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SECOND/THIRD FLOOR PLUMBING PLANS
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UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

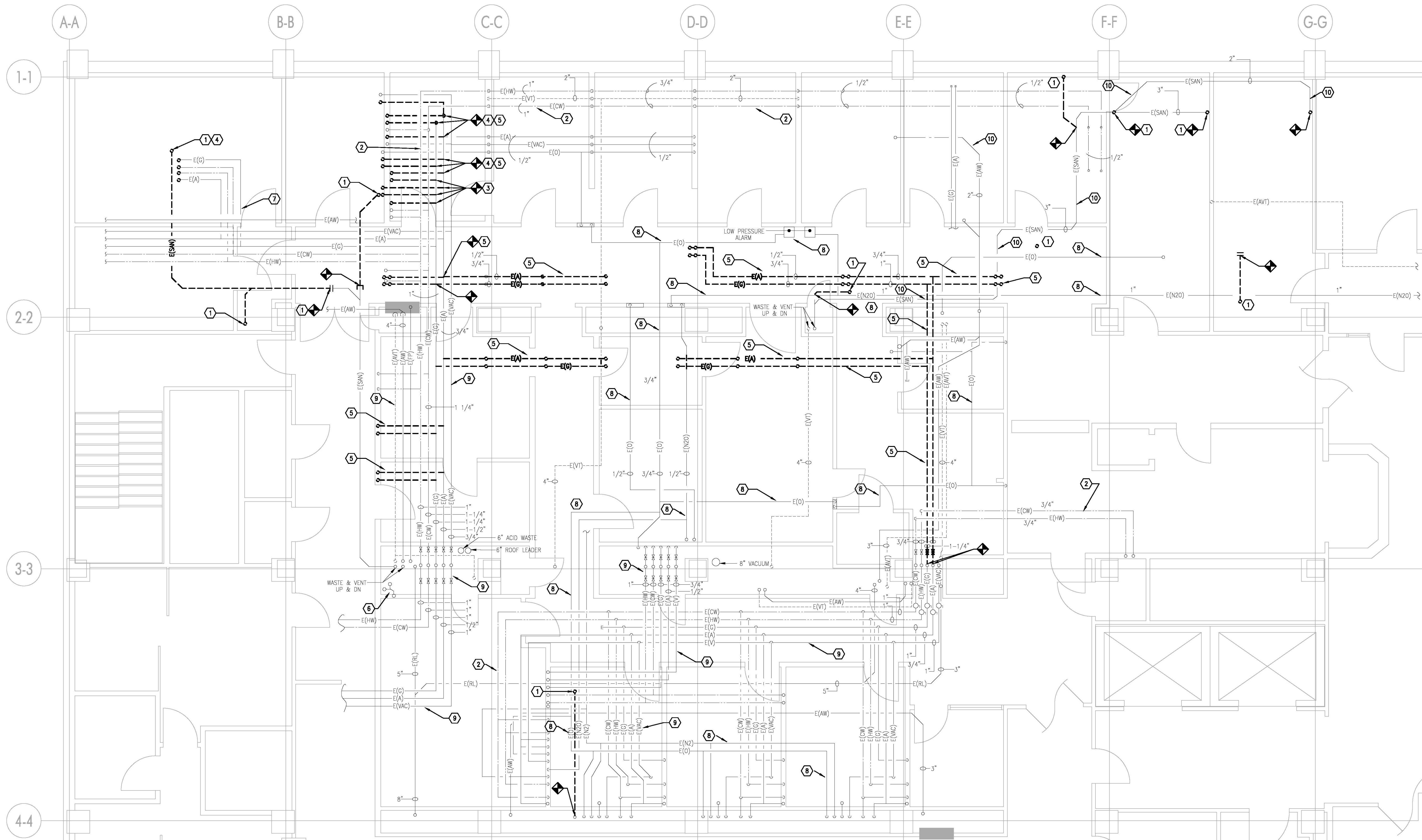
RECORD DRAWING

12 DECEMBER 2012

UKY1206

P2.0

RECORD DRAWING



01 PARTIAL FIFTH FLOOR
PLUMBING DEMOLITION PLAN
P2.1 1/8" = 1'-0"



GENERAL NOTES:

- A. CONTRACTOR SHALL REMOVE FLOOR SLAB AND WALLS WHERE NEEDED, AND DISPOSE OF ALL MATERIAL FROM CONSTRUCTION SITE.
- B. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.
- C. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF CEILING TILES AND REINSTALLATION IN AREAS WHERE CEILING ARE NOT BEING REPLACED. IF A TILE IS BROKEN OR DAMAGED DURING REMOVAL, THE CONTRACTOR SHALL REPLACE WITH A SIMILAR NEW TILE AT NOW ADDITIONAL COST TO THE OWNER.

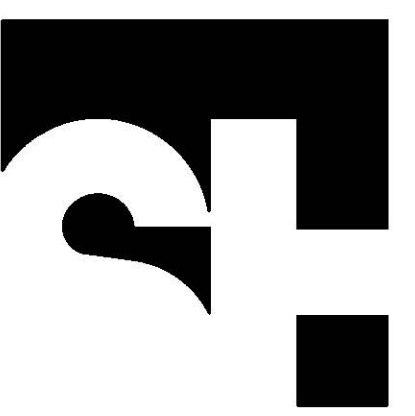
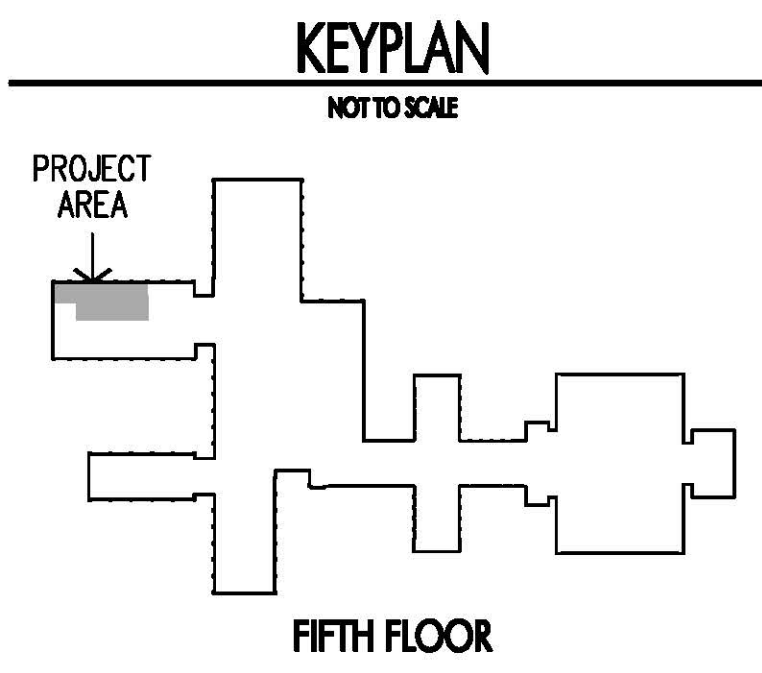
PHASING NOTES:

- A. ALL WORK ASSOCIATED ON THIS FLOOR OCCURS WITHIN AN ORAL SURGERY CLINIC. ALL WORK MUST OCCUR ON A WEEKEND FROM FRIDAY AT 6:00P.M. TO SUNDAY AT 12:00 A.M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING. THIS INCLUDES ALL CEILING TILES REINSTALLED AND ANY THAT ARE DAMAGED MUST BE REPLACED IMMEDIATELY.

TAGGED NOTES:

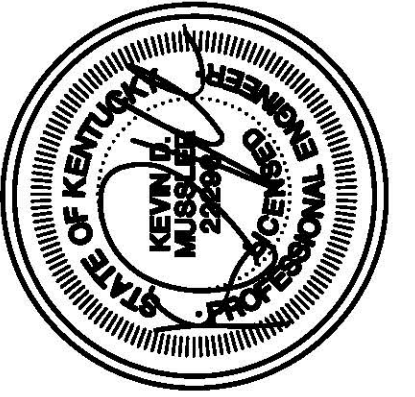
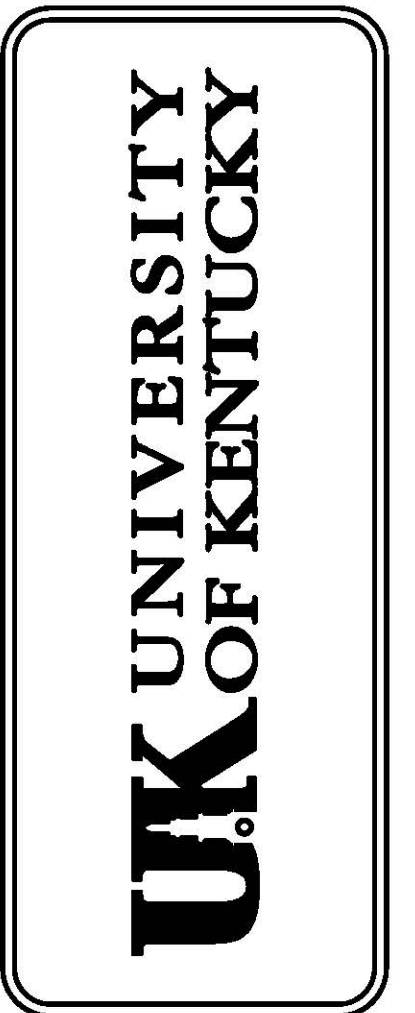
- 1. EXISTING SANITARY SHALL BE CAPPED AND REMOVE FROM CEILING SPACE. FIELD VERIFY EXACT LOCATION.
- 2. EXISTING HOT AND COLD WATER LINES TO REMAIN.
- 3. CAP EXISTING SANITARY SEWER AND VENT PIPING ABOVE FIFTH FLOOR CEILING. FIELD VERIFY EXACT LOCATION.
- 4. CAP EXISTING DOMESTIC WATER LINES, VENT PIPING AND SANITARY PIPING. FIELD VERIFY EXACT LOCATIONS.
- 5. CAP EXISTING GAS AND AIR PIPING AT MAIN AND REMOVE FROM CEILING SPACE. FIELD VERIFY EXACT LOCATION.
- 6. EXISTING SANITARY, VENT, DOMESTIC WATER, VACUUM, AIR PIPING TO REMAIN.
- 7. CAP EXISTING GAS, AIR AND DOMESTIC WATER LINES AT MAIN AND REMOVE FROM CEILING SPACE. FIELD VERIFY EXACT LOCATIONS.
- 8. EXISTING MEDICAL GAS PIPING TO REMAIN.
- 9. EXISTING UTILITY PIPING ABOVE 5TH FLOOR CEILING SPACE TO REMAIN.
- 10. EXISTING SANITARY PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.

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FIFTH FLOOR PLUMBING DEMOLITION PLANS
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
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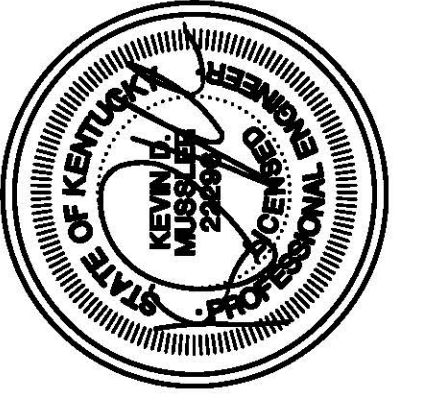
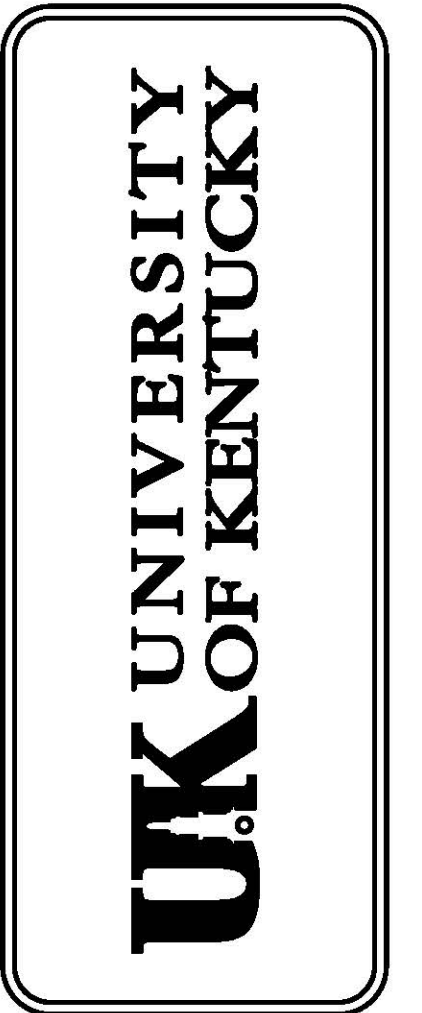
P2.1

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ARCHITECTURE

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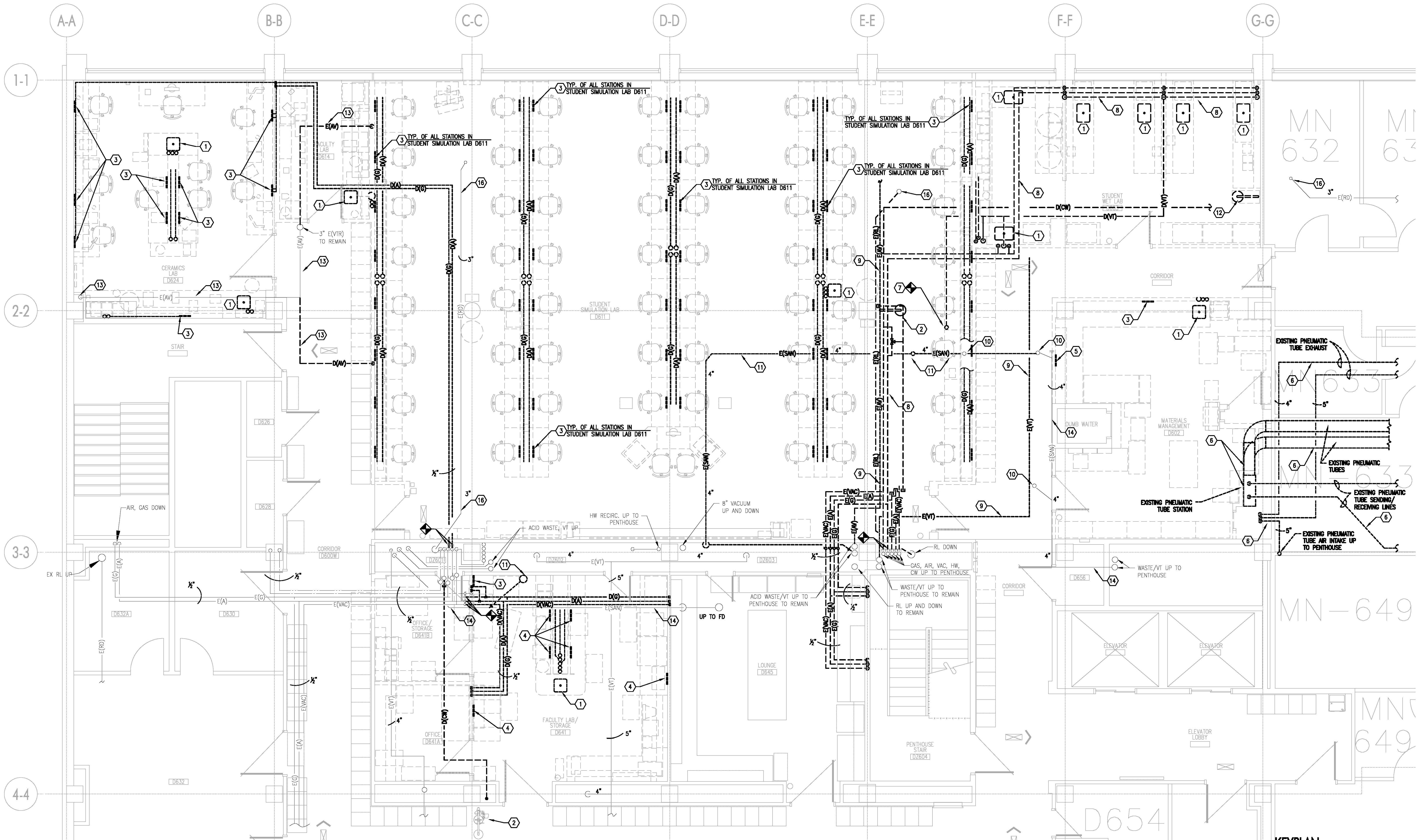
SIXTH FLOOR PLUMBING DEMOLITION PLANS
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

RECORD DRAWING

12 DECEMBER 2012
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P2.2



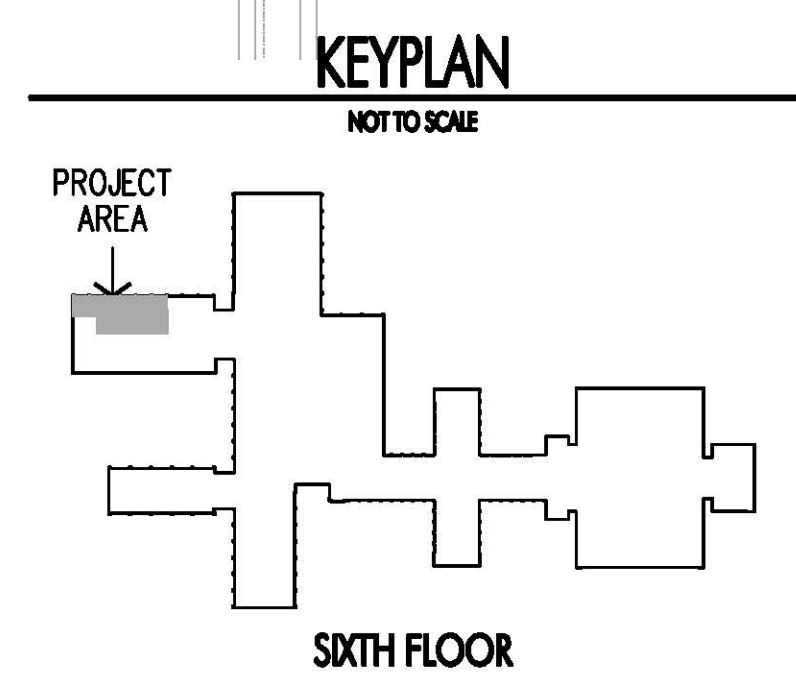
01 PARTIAL SIXTH FLOOR PLUMBING DEMOLITION PLAN

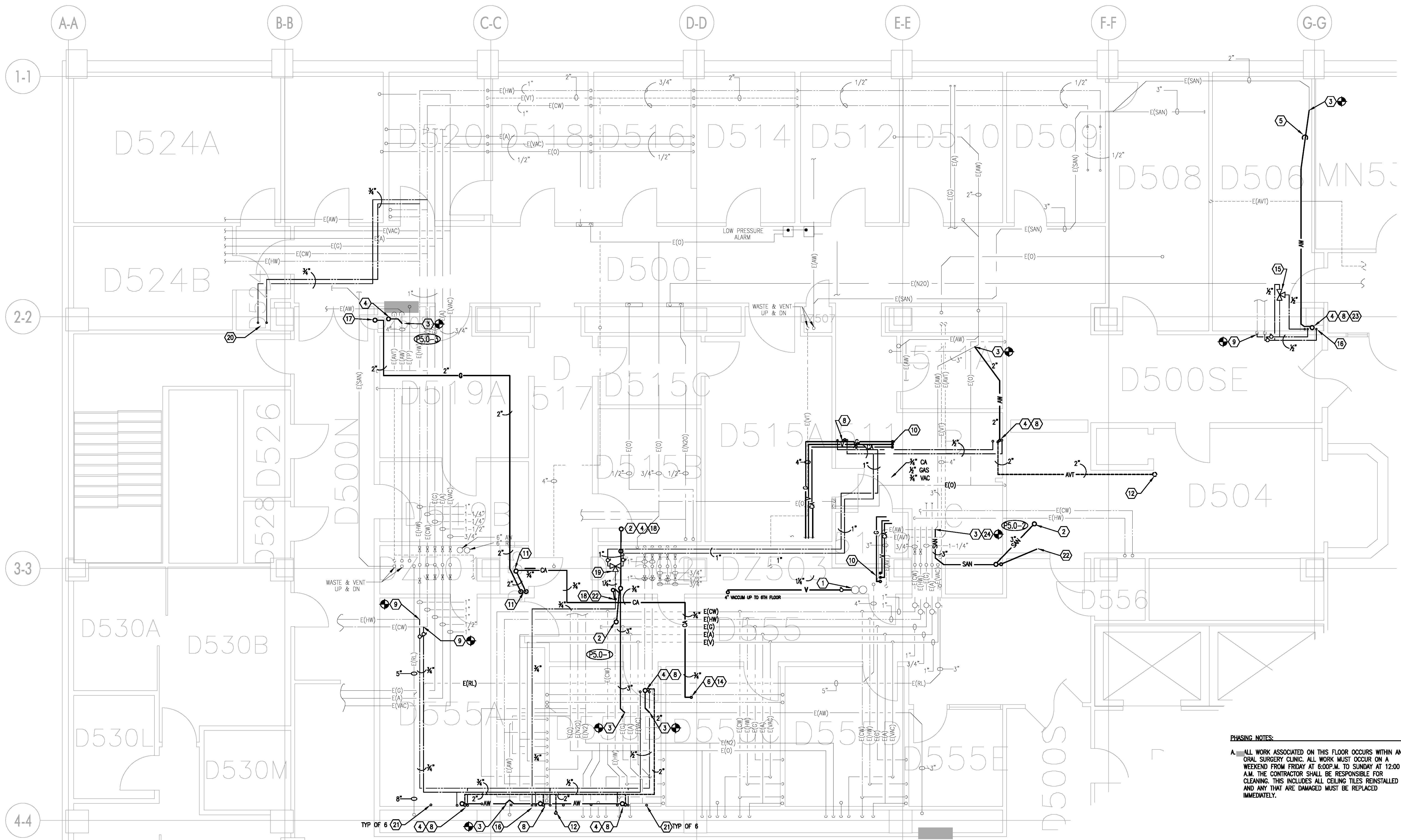
P2.2 1/4" = 1'-0" NORTH

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- GENERAL NOTES:**
- CONTRACTOR SHALL REMOVE FLOOR SLAB AND WALLS WHERE NEEDED, AND DISPOSAL OF ALL MATERIAL FROM CONSTRUCTION SITE.
 - ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.
 - ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF CEILING TILES AND REINSTALLATION IN AREAS WHERE CEILING ARE NOT BEING REPLACED. IF A TILE IS BROKEN OR DAMAGED DURING REMOVAL, THE CONTRACTOR SHALL REPLACE WITH A SIMILAR NEW TILE AT NOW ADDITIONAL COST TO THE OWNER.

- TAGGED NOTES:**
- REMOVE EXISTING SINK AND ALL ASSOCIATED PIPING. CAP EXISTING PIPING BACK TO MAIN. FIELD VERIFY EXACT LOCATION.
 - REMOVE EXISTING EMERGENCY SHOWER/EYE WASH. CAP ALL ASSOCIATED PIPING BACK TO MAIN. REMOVE EXISTING FLOOR DRAIN. REPAIR EXISTING FLOOR SLAB, WALLS AND CEILING TO MATCH EXISTING.
 - REMOVE EXISTING GAS AND AIR OUTLETS COMPLETELY. CAP GAS AND AIR PIPING AT MAINS.
 - REMOVE EXISTING AIR, GAS, AND VACUUM OUTLETS COMPLETELY. CAP AIR, GAS, AND VACUUM PIPING AT MAINS.
 - REMOVE EXISTING AIR, GAS, AND WATER OUTLETS COMPLETELY. CAP AIR, GAS, AND WATER PIPING AT MAINS.
 - REMOVE EXISTING PNEUMATIC TUBE STATION COMPLETELY.
 - CAP EXISTING 2" VENT PIPING AT FLOOR PENETRATION.
 - CAP EXISTING DOMESTIC WATER LINES BACK AT MAIN AND REMOVE FROM CEILING SPACE. FIELD VERIFY EXACT LOCATIONS.
 - CAP EXISTING 2" VENT AT MAIN AND REMOVE FROM CEILING SPACE. FIELD VERIFY EXACT LOCATION.
 - EXISTING 4" SANITARY UP TO FLOOR DRAIN TO REMAIN.
 - REMOVE EXISTING 4" SANITARY PIPE AND 4" SANITARY UP TO FLOOR DRAIN.
 - REMOVE EXISTING EYE WASH. CAP ALL ASSOCIATED PIPING BACK TO MAIN.
 - REMOVE EXISTING VENT BACK TO 3" VENT THRU ROOF.
 - EXISTING SANITARY ABOVE CEILING SHALL REMAIN.
 - EXISTING ACID VENT PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.
 - EXISTING ROOF LEADER TO REMAIN. FIELD VERIFY EXACT LOCATION.





01 PARTIAL FIFTH FLOOR
REVISED PLUMBING PLAN

1/4" = 1'-0"

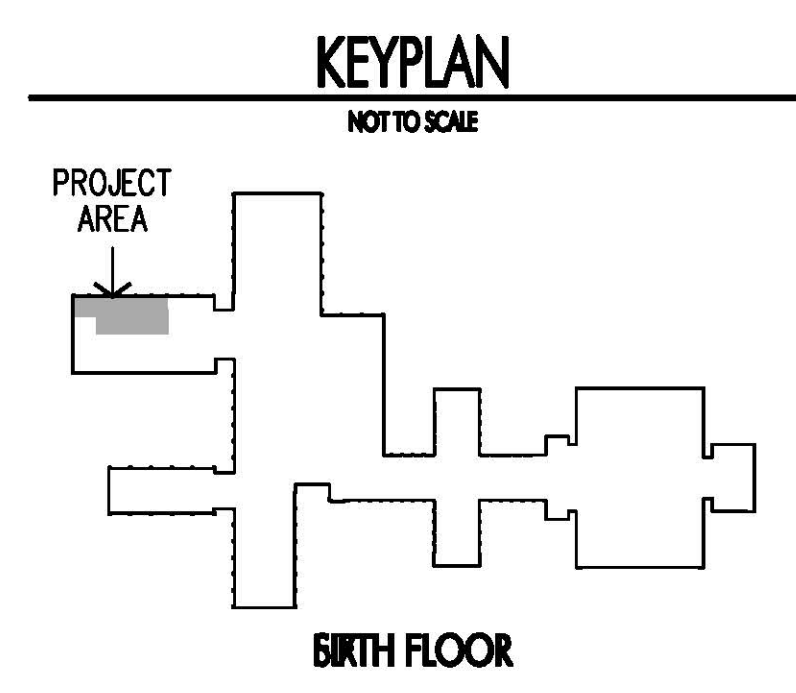
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- TAGGED NOTES:**
- EXISTING 8" WET & DRY VACUUM MAINS TO REMAIN.
 - 3" SANITARY UP TO FLOOR DRAIN. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - CONNECT TO EXISTING SANITARY SEWER. FIELD VERIFY EXACT TIE-IN LOCATION.
 - 2" SANITARY SEWER LINE UP. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - TURN SANITARY PIPING DOWN BELOW EXISTING DUCTWORK.
 - COMPRESSED AIR LINE UP TO SIXTH FLOOR. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - CONNECT TO EXISTING 8" VACUUM MAIN. FIELD VERIFY EXACT TIE-IN LOCATION.
 - 1/2" HOT AND COLD WATER LINES UP. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - CONNECT TO EXISTING HOT AND COLD WATER LINES. FIELD VERIFY EXACT TIE-IN LOCATIONS.
 - AIR, GAS AND VACUUM UP. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - 2" GAS LINE AND 2" COMPRESSED AIR LINE UP AND DOWN. REFER TO PLAN SHEET P3.1 AND MECHANICAL PLAN SHEET M3.2 FOR CONTINUATION.
 - 2" ACID VENT UP. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - 3/4" COMPRESSED AIR LINE AND 1/2" GAS LINE UP. REFER TO PLANS SHEET 3.1 FOR CONTINUATION.
 - COMPRESSED AIR LINE UP TO PRESSURE REDUCING VALVE IN CABINET SPACE. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - GUARDIAN TMY G3600 THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH.
 - 1/2" TEMPERED WATER LINE UP TO EMERGENCY EYEWASH. REFER TO PLAN SHEET P3.1.
 - 2" GAS LINES UP TO SHUT-OFF VALVE. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - 1/2" TEMPERED WATER LINE UP TO EMERGENCY SHOWER/EYEWASH. REFER TO PLAN SHEET P3.1.
 - GUARDIAN TMY-G3800 THERMOSTATIC MIXING VALVE.
 - 3/4" DOMESTIC WATER LINES UP. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - 1/2" DOMESTIC WATER UP TO MODEL TRIMMERS.
 - 1/2" SANITARY UP TO EMERGENCY SHOWER/EYEWASH. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
 - HOLD SANITARY TIGHT TO STRUCTURE.
 - INSTALL SANITARY PIPE OVER EXISTING DUCT AND CONNECT TO TOP OF EXISTING SANITARY PIPE. FIELD VERIFY EXACT TIE-IN LOCATION.
 - COORDINATE INSTALLATION OF WATER LINE AND EXISTING DUCTWORK IN THIS AREA.

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PHASING NOTES:

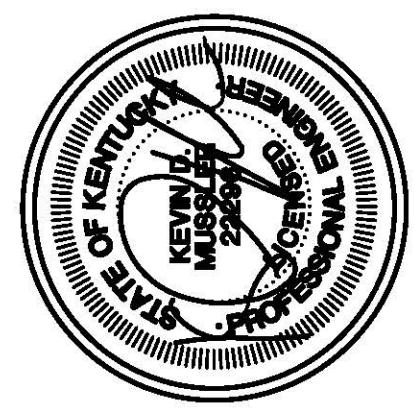
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REVISED PLUMBING FIFTH FLOOR PLAN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
UKY1206

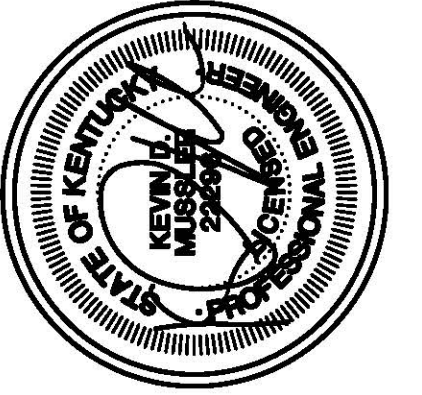
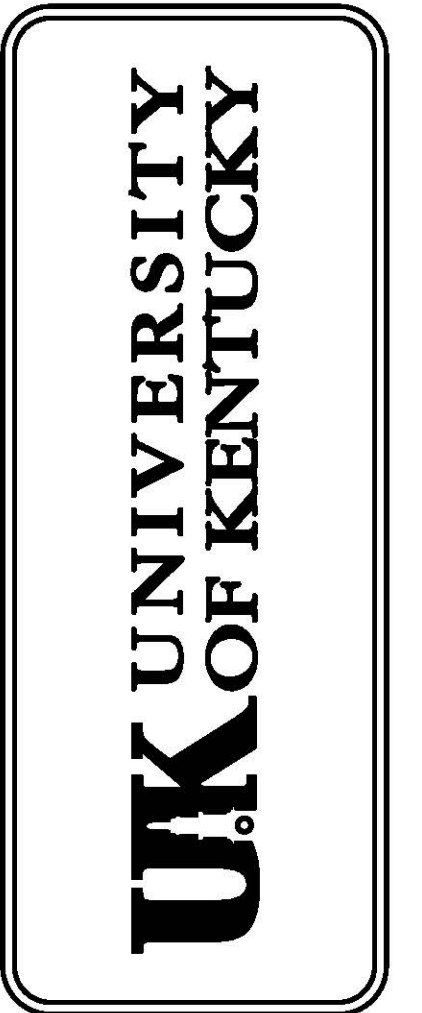
P3.0R1

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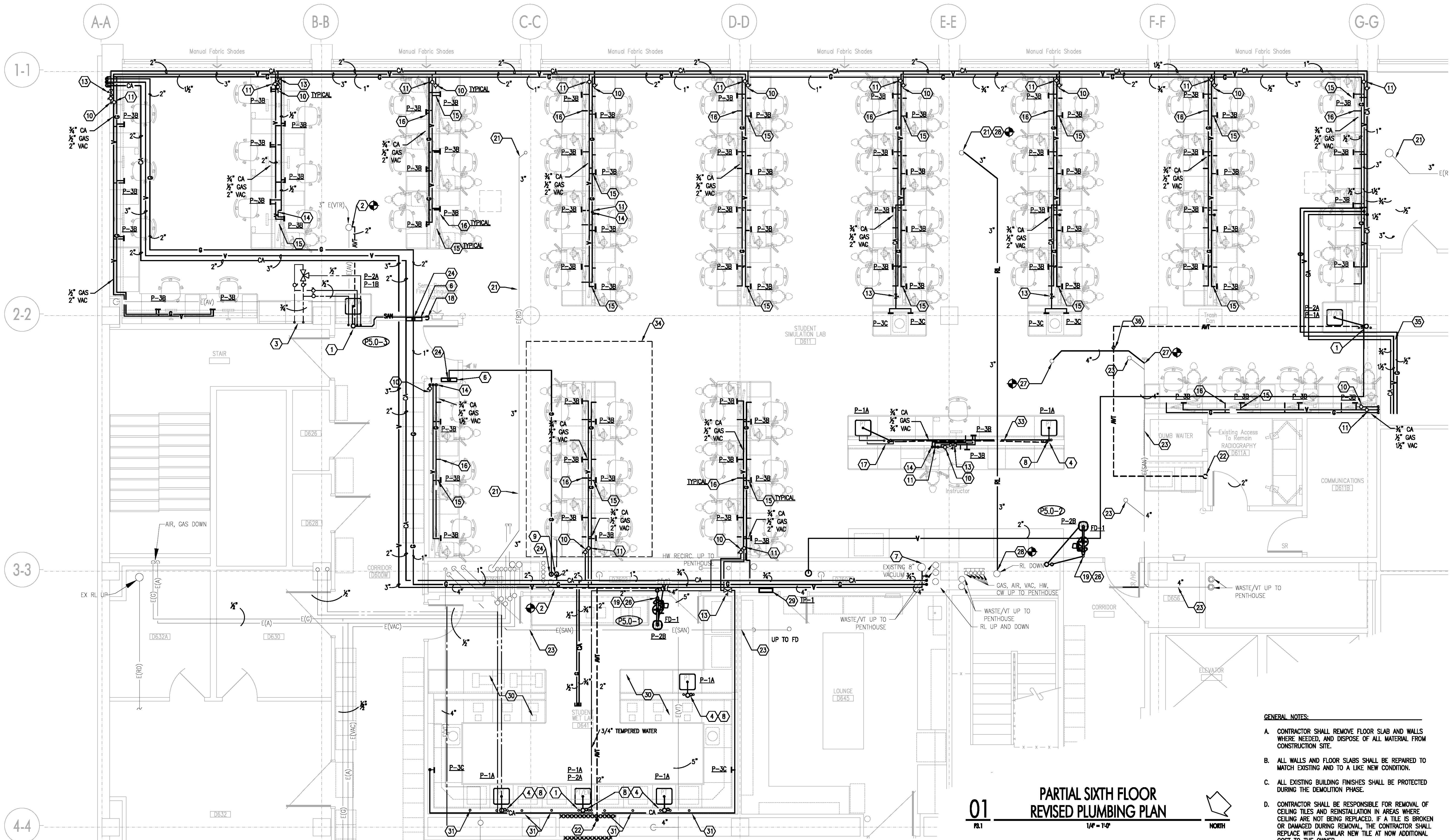
REVISED PLUMBING SIXTH FLOOR PLAN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
UKY1206

P3.1R1

RECORD DRAWING



01 PARTIAL SIXTH FLOOR
REVISED PLUMBING PLAN
R3.1 1/4" = 1'-0" NORTH

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TAGGED NOTES:

- 1/2" DOMESTIC WATER LINES, 1/2" TEMPERED WATER LINE, VENT PIPING AND SANITARY DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- CONNECT TO EXISTING VENT, VENT THRU ROOF. FIELD VERIFY EXACT TIE-IN LOCATION.
- 3/4" HOT AND COLD WATER LINES DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- 1/2" HOT AND COLD WATER LINES, 2" VENT AND 2" SANITARY DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- CONNECT TO EXISTING SANITARY IN FIFTH FLOOR CEILING SPACE.
- AMICO ALERT-1 SERIES ZONE VALVE BOX WITH SHUT-OFF VALVE, 2" GAS LINES DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- EXISTING VACUUM MAIN UP AND DOWN TO REMAIN.

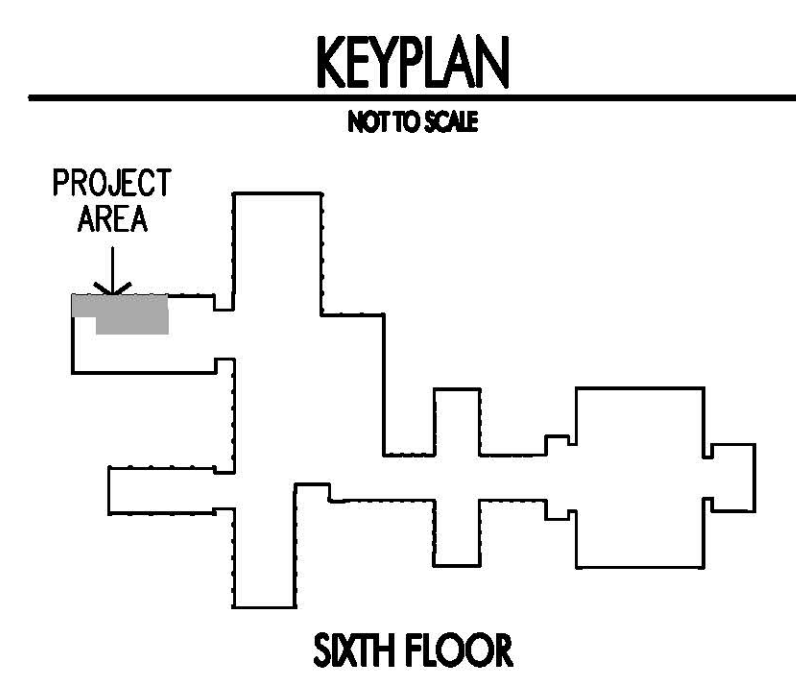
- 2" LOOP VENT DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- COMPRESSED AIR LINE DOWN TO 5TH FLOOR. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- COMPRESSED AIR LINE. INSTALL 3/4" BALL VALVE WITH A 3/4" FPT OUTLET FOR SUPPLIERS CONNECTION.
- VACUUM LINE. INSTALL BALL VALVE IN BEFORE BRANCHING TO DENTAL SIMULATORS. REFER TO SECTION ON PLAN SHEET P4.0.
- CAP VACUUM LINE AND GAS LINE IN CASEWORK FOR FUTURE CONNECTION.
- INGERSOLL RAND COMPRESSED AIR REGULATOR IN CASEWORK SET AT 90-PSI. COORDINATE LOCATION AND MOUNTING WITH CASEWORK VENDOR FOR APPROPRIATE ACCESS.
- GAS LINE UP FROM FIFTH FLOOR. INSTALL 1/2" BALL VALVE IN VERTICAL RISE.

- 1/2" CPVC VACUUM LINE STUBBED OUT FOR CONNECTION BY SUPPLIER.
- CONNECT GAS LINE TO GAS TURRET IN CASEWORK. COORDINATE GAS LINE LOCATION WITH CASEWORK MANUFACTURE.
- 1/2" DOMESTIC WATER LINES DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- 2" SANITARY DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- 1 1/4" TEMPERED WATER LINE DOWN REFER TO PLAN SHEET P3.0.
- 3/4" COMPRESSED AIR DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- EXISTING ROOF LEADER TO REMAIN.
- 2" ACID VENT DOWN. REFER TO PLAN SHEET P3.0.

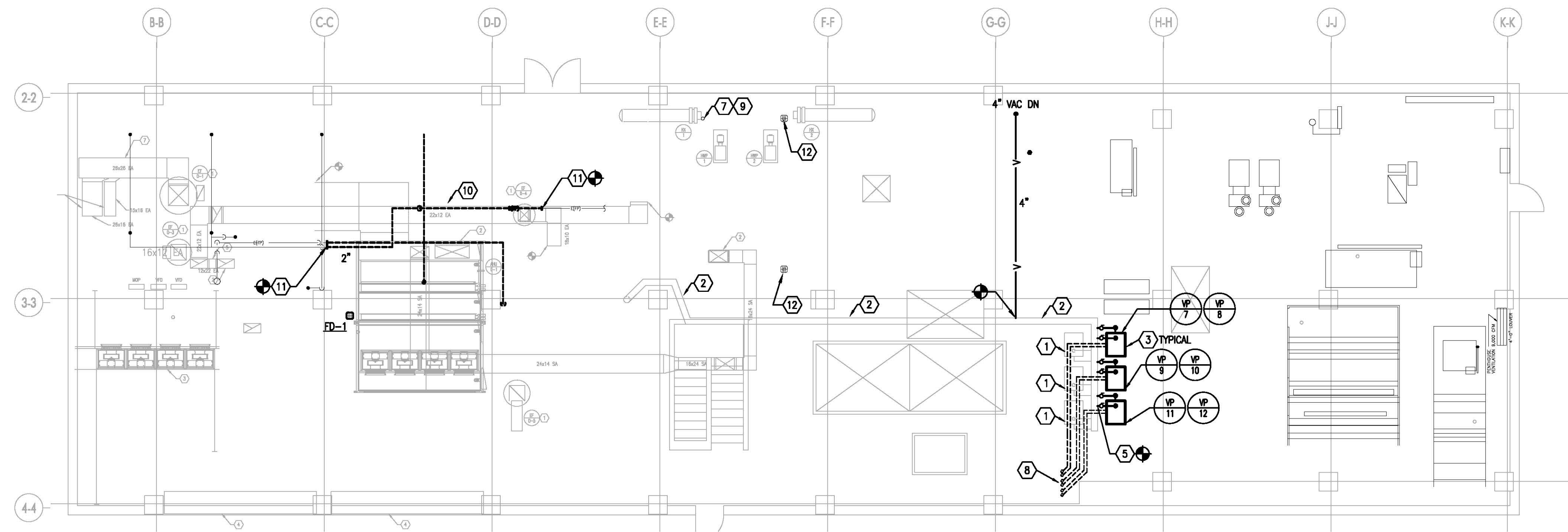
- EXISTING SANITARY SEWER ABOVE CEILING TO REMAIN.
- 2" GAS LINE DOWN. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- 1/2" GAS, 1 1/2" VACUUM AND 3/4" COMPRESSED AIR UP IN EXISTING WALL TO CEILING SPACE. CONTRACTOR SHALL REPAIR WALL AND CEILING TO MATCH EXISTING.
- 1 1/4" SANITARY DOWN. REFER TO PLAN SHEET P3.0.
- CONNECT TO EXISTING 4" SANITARY. FIELD VERIFY EXACT LOCATION.
- CONNECT TO EXISTING ROOF LEADER. FIELD VERIFY EXACT LOCATION.
- PPP INC. MODEL PT-4 ELECTRIC TRAP PRIMER FOR NEW FLOOR DRAINS. INSTALL WITH 1/2" SOFT COPPER DISTRIBUTION LINES.

- NEW AND EXISTING PIPING IN STUDENT WET LAB D641 SHALL BE PAINTED WHITE.
- 1/2" DOMESTIC WATER LINE UP FROM BELOW. TERMINATE WITH 1/2" FEMALE PIPE THREAD CONNECTOR. REFER TO PLAN SHEET P3.0 FOR CONTINUATION.
- 3/4" COMPRESSED AIR AND 1/2" GAS DOWN. REFER TO SHEET P3.0 FOR CONTINUATION.
- THE CONTRACTOR SHALL BE PREPARED TO MOCK UP THIS SET OF LAB CASEWORK PRIOR TO STARTING ANY WORK ON OTHER CASEWORK. THIS SHALL BE REVIEWED AND APPROVED BY OWNER, ENGINEER AND ARCHITECT. ALL VALVES SHALL BE ACCESSIBLE AND ALL PIPING SECURED TO THE UNISTRUT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- 2" VACUUM LINE UP TO PENTHOUSE.
- 2" VENT UP TO PENTHOUSE.

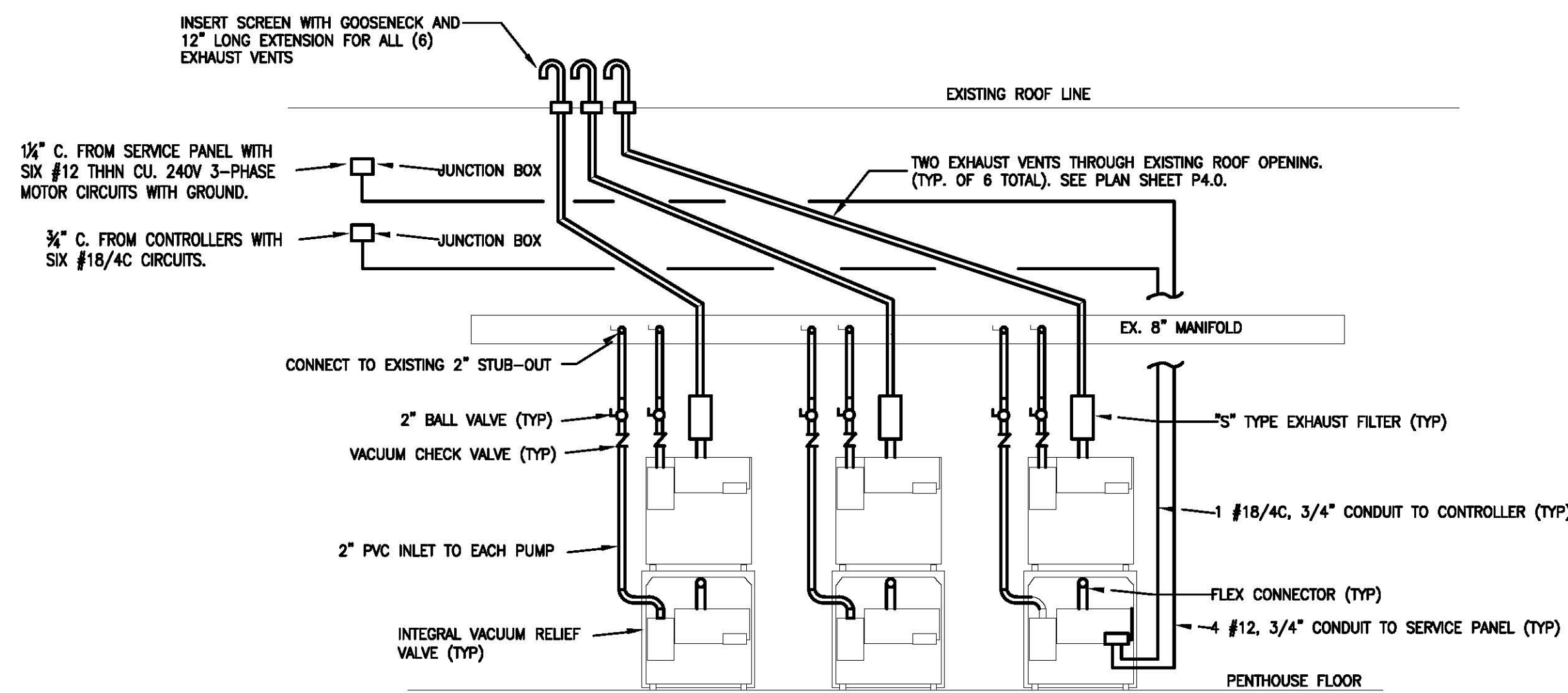
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01 PENTHOUSE
REVISED PLUMBING PLAN
P4.0 1/8" = 1'-0" NORTH



- NOTE:**
- PUMPS AND ACCESSORIES ARE DESIGNED AND MANUFACTURED BY RAMVAC FOR COMPLETE DESIGN SYSTEM AND MANUFACTURER RELATED QUESTIONS, CONTACT: JEFF FLESNER (605) 642-4614.
 - PUMPS AND PUMP STANDS SHALL BE FURNISHED BY OWNER AND INSTALLED BY VENDOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL PIPING, VALVES, EXHAUST, CONDUIT, WIRING, ELECTRICAL COMPONENTS AND CONNECTIONS TO THE EXISTING SYSTEM. COORDINATE INSTALLATION WITH MANUFACTURER. CONTACT JEFF FLESNER WITH RAMVAC.

VACUUM PUMP ELEVATION
NOT TO SCALE

TAGGED NOTES:

- (6) EXISTING VACUUM PUMPS TO REMAIN.
- EXISTING 8" VACUUM HEADER AND PUMP CONNECTORS TO HEADER SHALL REMAIN.
- (6) NEW VACUUM PUMPS. STACKED 2 HIGH ON FACTORY FABRICATED STAND.
- NEW AIR COMPRESSOR SHALL BE MOUNTED ON 4" CONCRETE PAD.
- CONNECT TO EXISTING 8" VACUUM HEADER. TYPICAL
- NEW COMPRESSED AIR LINE DOWN. REFER TO PLAN SHEET P3.1 FOR CONTINUATION.
- REMOVE EXISTING FLOOR DRAIN AND CAP EXISTING SANITARY IN THE 6TH FLOOR CEILING SPACE. REFER TO SHEET P3.1.
- 6-NEW EXHAUST VENTS THROUGH EXISTING ROOF OPENINGS.
- DRAIN LINES EMPTYING INTO DELETED FLOOR DRAIN SHALL BE REWORKED TO EMPTY INTO FLOOR DRAIN TO REMAIN.
- EXISTING FIRE PROTECTION MAIN, BRANCH LINES AND SPRINKLER HEADS SHALL BE REMOVE AND REWORKED. A NEW SPRINKLER SYSTEM SHALL BE INSTALLED IN THIS AREA. COORDINATE INSTALLATION WITH NEW HVAC SYSTEM.
- CONNECT TO EXISTING FIRE PROTECTION SPRINKLER SYSTEM. FIELD VERIFY EXACT TIE-IN LOCATION.
- EXISTING FLOOR DRAIN SHALL REMAIN.

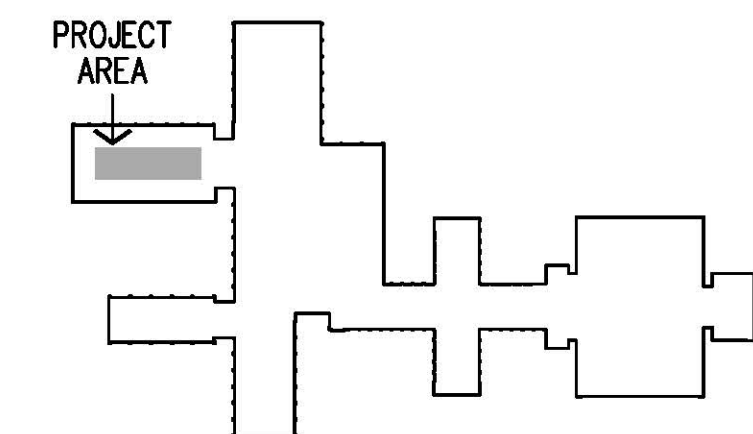
GENERAL NOTES:

- THE DENTAL COLLEGE IS EXPANDING THEIR EXISTING DENTAL VACUUM SYSTEM WHICH CONSISTS OF (6) EXISTING "BISON" RAMVAC VACUUM PUMPS. THE CONTROL SYSTEM WAS ORIGINALLY DESIGNED FOR AN EXPANSION OF AN ADDITIONAL (6) PUMPS WHICH WILL NOW BE PROVIDED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL CONTACT JEFF FLESNER (605) 642-4614 WITH RAMVAC TO PROVIDE A PRICE FOR A COMPLETE AND OPERATING SYSTEM TO INTERCONNECT WITH THE EXISTING SYSTEM.
- CONTRACTOR SHALL REMOVE FLOOR SLAB AND WALLS WHERE NEEDED, AND DISPOSE OF ALL MATERIAL FROM CONSTRUCTION SITE.
- ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.
- ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

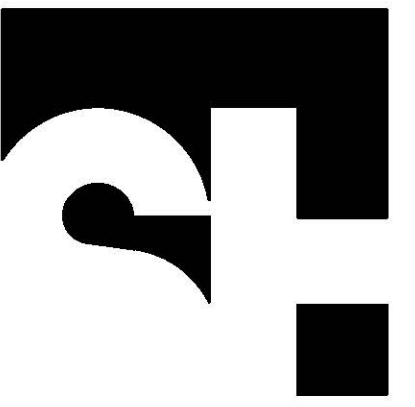
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KEYPLAN

NOT TO SCALE

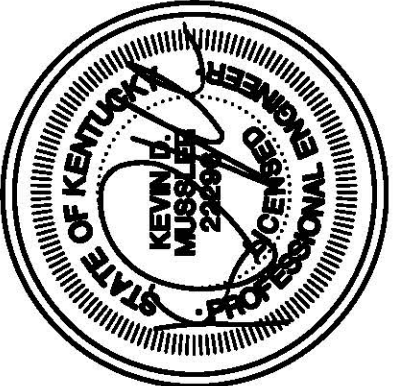
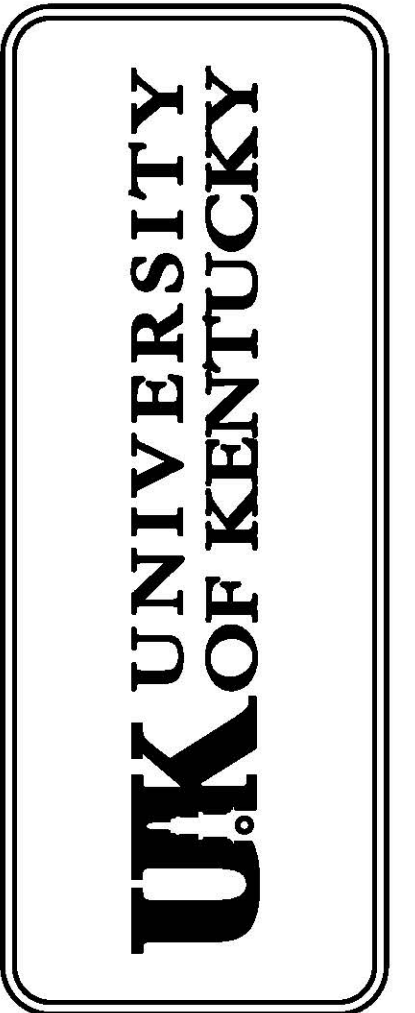


PENTHOUSE



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REVISED PENTHOUSE PLUMBING PLAN
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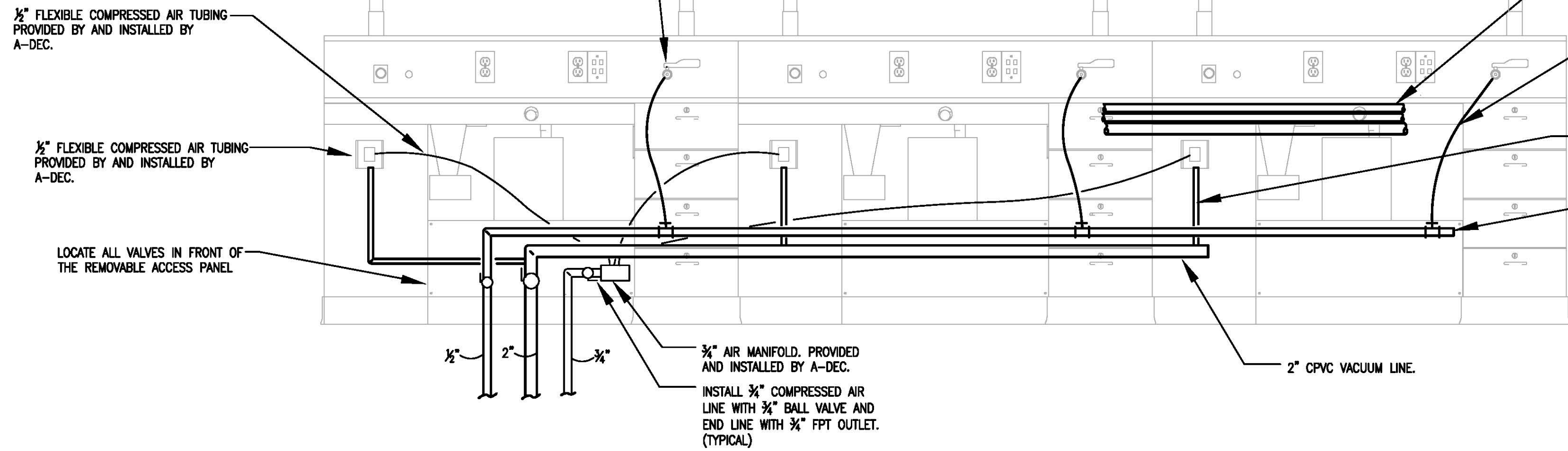
RECORD DRAWING

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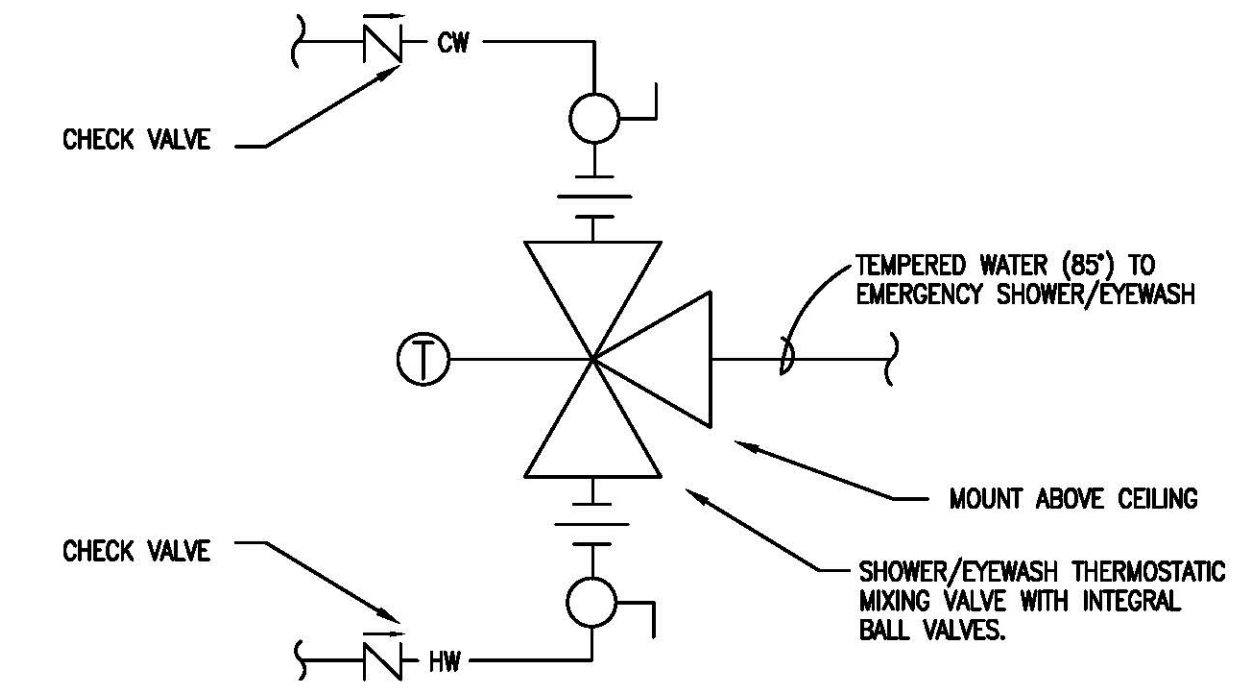
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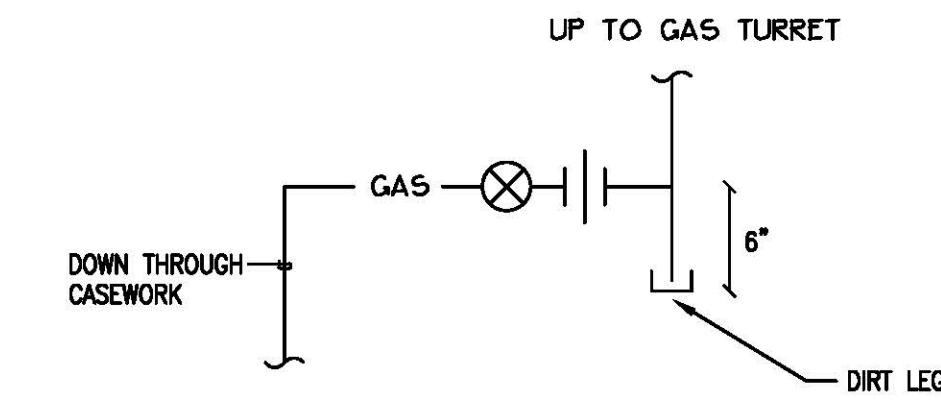
THE CONTRACTOR IS TO PROVIDE A MOCK UP FOR REVIEW BY THE ARCHITECT, ENGINEER, AND OWNER PRIOR TO INSTALLING OTHERS. REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



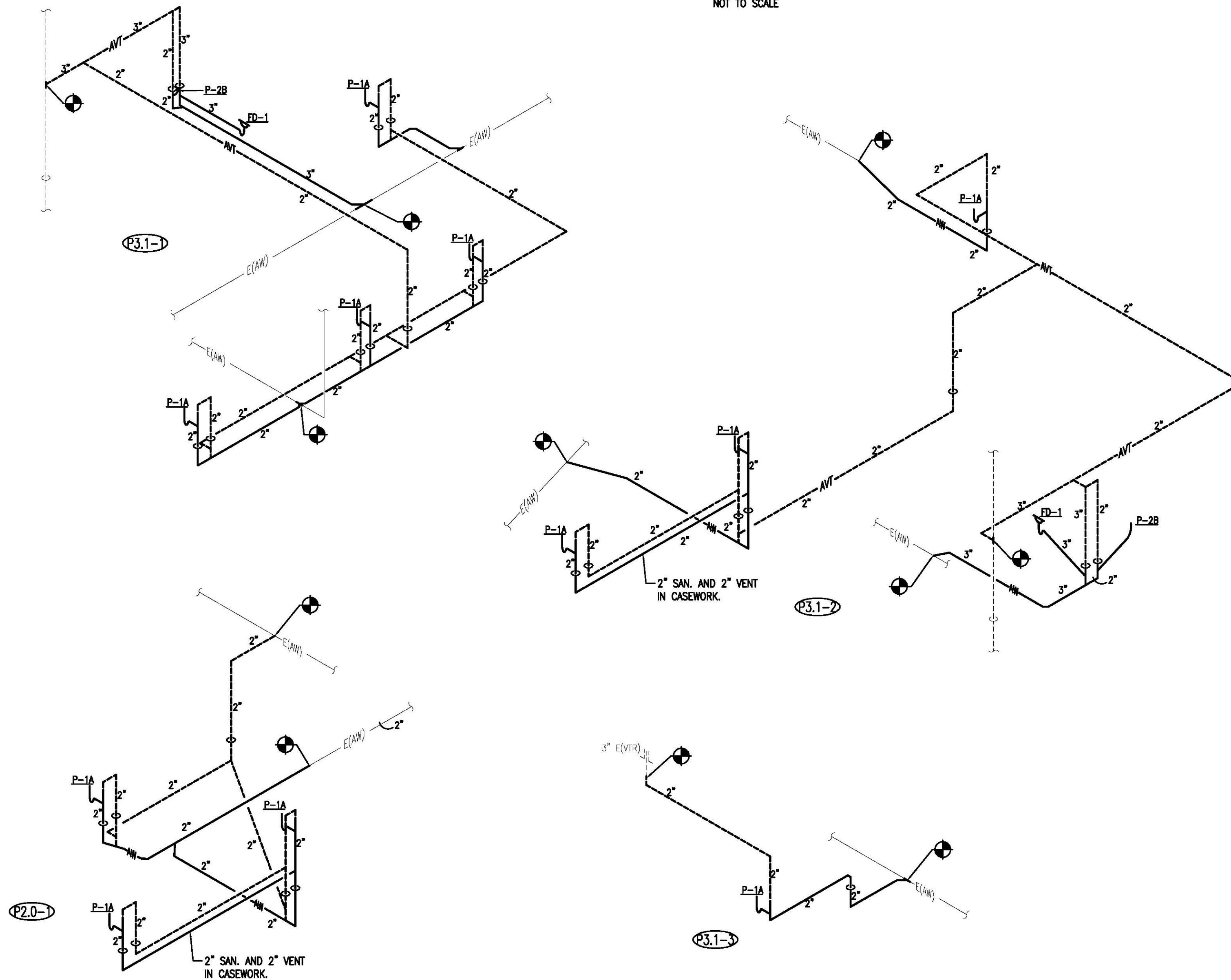
CASEWORK UTILITIES SECTION
NOT TO SCALE



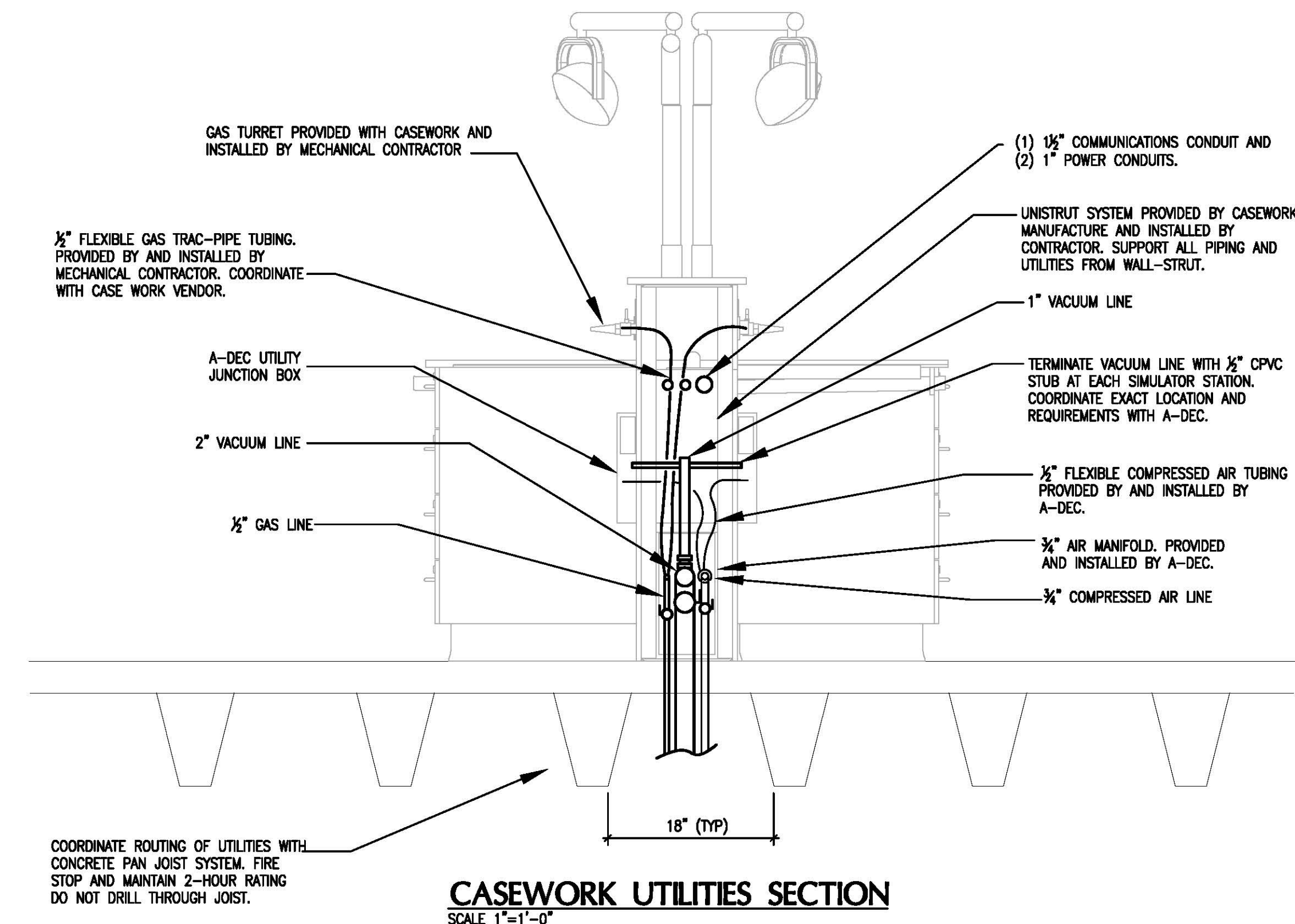
NOTE: REFER TO THE MANUFACTURER'S INSTRUCTION FOR EXACT PIPING ARRANGEMENT.
EMERGENCY SHOWER/EYEWASH PIPING SCHEMATIC
NOT TO SCALE



CASEWORK DIRT LEG DETAIL
NOT TO SCALE



SANITARY RISER DIAGRAM PLUMBING PLAN



CASEWORK UTILITIES SECTION
SCALE 1"=1'-0"

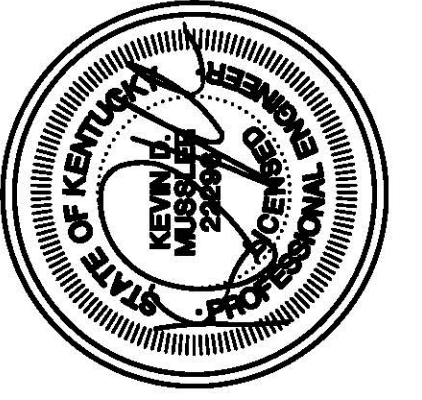
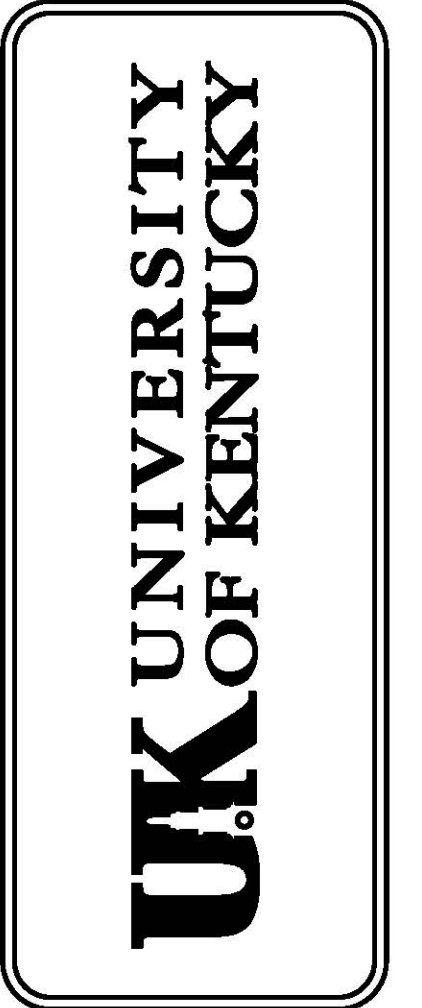
COORDINATE ROUTING OF UTILITIES WITH CONCRETE PAN JOIST SYSTEM. FIRE STOP AND MAINTAIN 2-HOUR RATING DO NOT DRILL THROUGH JOIST.

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STENGENL-HILL ARCHITECTURE

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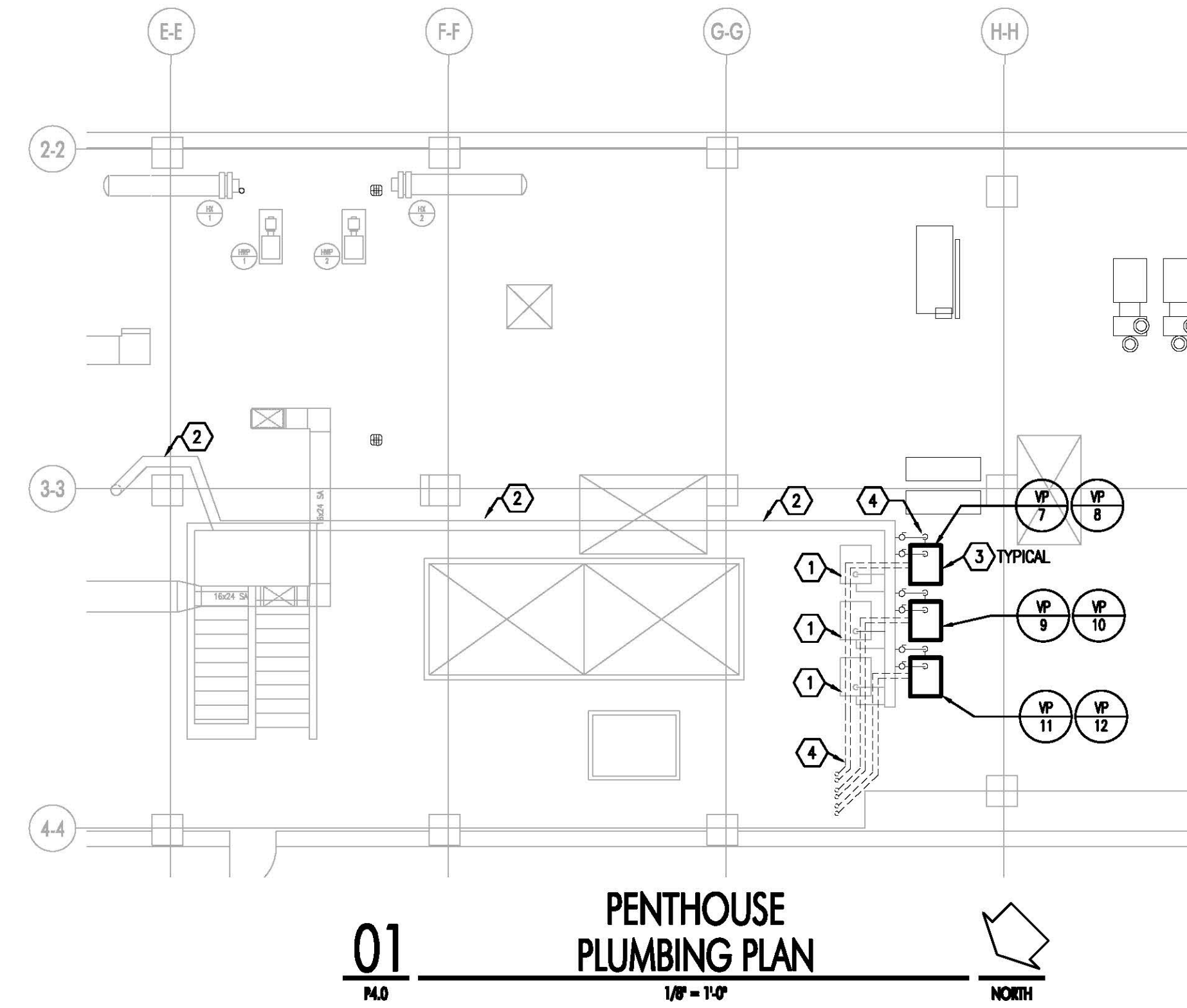
DETAILS AND SCHEDULES
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
UKY1206

P5.0

RECORD DRAWING

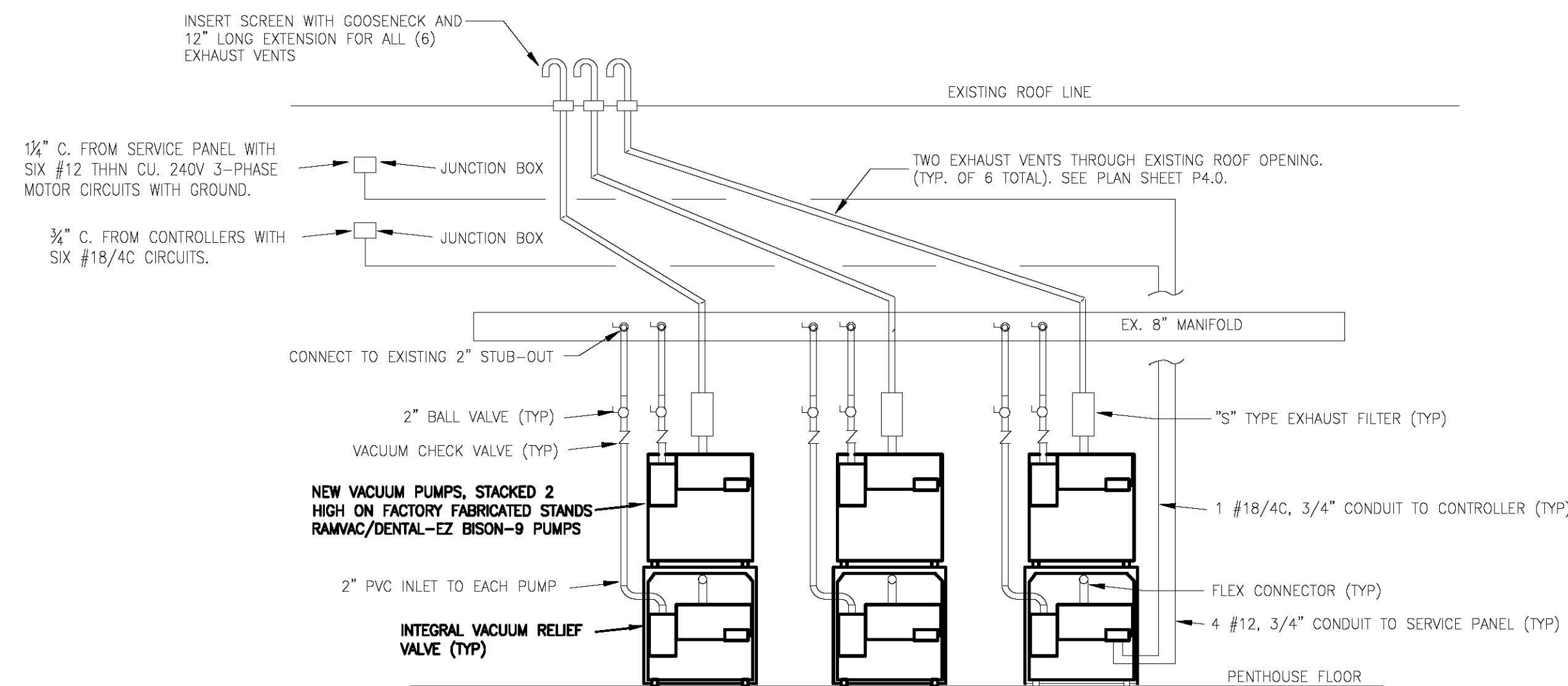


TAGGED NOTES:

1. (6) EXISTING VACUUM PUMPS TO REMAIN.
2. EXISTING 8" VACUUM HEADER AND PUMP CONNECTORS TO HEADER SHALL REMAIN.
3. (6) NEW BISON-9 VACUUM PUMPS. STACKED 2 HIGH ON FACTORY FABRICATED STANDS.
4. PIPING, VALVES, VACUUM EXHAUST, CONDUIT, WIRING ELECTRICAL COMPONENTS AND CONNECTIONS TO THE EXISTING SYSTEM SHALL BE DONE BY OTHERS.

GENERAL NOTES:

- A. THE DENTAL COLLEGE IS EXPANDING THEIR EXISTING DENTAL VACUUM SYSTEM WHICH CONSISTS OF (6) EXISTING "BISON" RAMVAC VACUUM PUMPS. THE CONTROL SYSTEM WAS ORIGINALLY DESIGNED FOR AN EXPANSION OF AN ADDITIONAL (6) PUMPS WHICH WILL NOW BE PROVIDED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL CONTACT JEFF FLESNER (605) 642-4614 WITH RAMVAC TO PROVIDE A PRICE FOR A COMPLETE AND OPERATING SYSTEM TO INTERCONNECT WITH THE EXISTING SYSTEM.
- B. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.
- C. ALL EXISTING BUILDING FINISHES AND EQUIPMENT SHALL BE PROTECTED DURING THE DEMOLITION PHASE.



VACUUM PUMP ELEVATION
NOT TO SCALE

NOTE:

1. NEW BISON-9 PUMPS AND FACTORY FABRICATED STANDS SHALL BE PROVIDED BY AND INSTALLED BY DENTAL-EZ/RAMVAC.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL PIPING, VALVES, EXHAUST, CONDUIT, WIRING, ELECTRICAL COMPONENTS AND CONNECTIONS TO THE EXISTING SYSTEM. COORDINATE INSTALLATION WITH MANUFACTURER. CONTACT JEFF FLESNER WITH RAMVAC.
3. DENTAL-EZ SHALL BE RESPONSIBLE FOR COORDINATING THE CONTROL WORK FOR THE NEW PUMPS WITH THE EXISTING PUMPS.
4. DENTAL-EZ SHALL BE RESPONSIBLE FOR THE START-UP OF NEW PUMPS AND OWNER TRAINING.
5. THE INSTALLATION OF THE NEW PUMPS SHALL OCCUR IN MARCH 2013.
6. DENTAL-EZ SHALL SUBMIT SHOP DRAWINGS TO CMTA ENGINEERING FOR REVIEW PRIOR TO ORDERING NEW PUMPS.

DENTAL VACUUM PUMP SCHEDULE

MARK	MANUFACTURER MODEL	PUMP TYPE	PUMP HP/RPM	PUMP VOLT/PH	FLOW CAPACITY	MCA	MAOP	WEIGHT (LB)	REMARKS
VP-7	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4
VP-8	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4
VP-9	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4
VP-10	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4
VP-11	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4
VP-12	RAMVAC BISON 9	OIL FILLED ROTARY VANE	5.0/1050	208V/3PH	10 HVE/50 SE	—	20A	400	1, 2, 3, 4

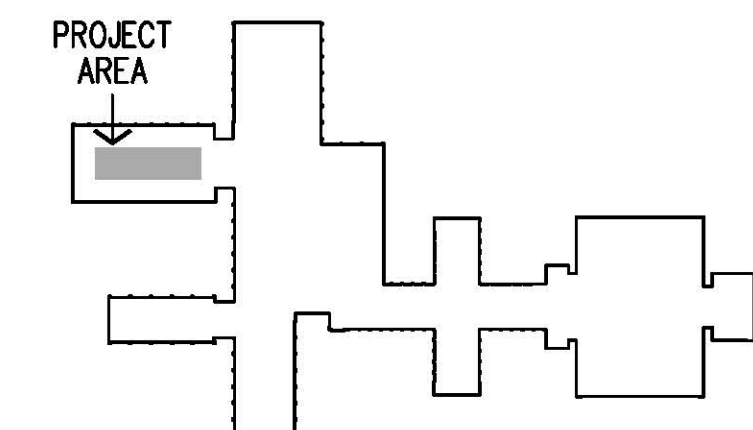
REMARKS:

1. PUMP SHALL HAVE (10) YEAR WARRANTY.
2. ONE HVE = 7.25 SCFM AT MAX 4" HG HEAD LOSS. FIVE SE SALVA ELECTORS = ONE HVE.
3. PROVIDE ONE MICROPROCESSOR CONTROL SYSTEM AND ALL NECESSARY COMPONENTS TO ALLOW PUMP SELECTION BASED ON CUMULATIVE RUN TIME. PUMP STAGING AND ALARMS.
4. PROVIDE EACH PUMP WITH EXHAUST S-TYPE FILTER.
5. THE DENTAL COLLEGE IS EXPANDING THEIR EXISTING DENTAL VACUUM SYSTEM WHICH CONSISTS OF (6) EXISTING "BISON" RAMVAC VACUUM PUMPS. THE CONTROL SYSTEM WAS ORIGINALLY DESIGNED FOR AN EXPANSION OF AN ADDITIONAL (6) PUMPS WHICH WILL NOW BE PROVIDED AS PART OF THIS PROJECT.

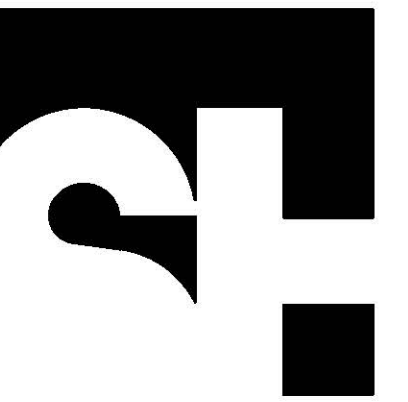
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KEYPLAN

NOT TO SCALE

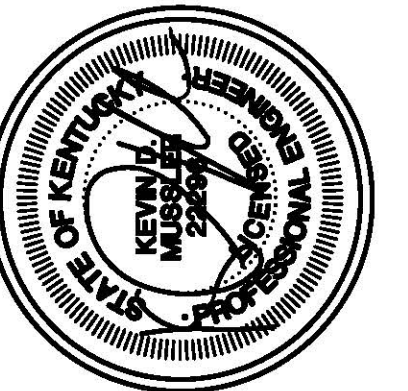


PENTHOUSE



STENGENL-HILL ARCHITECTURE

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PARTIAL PENTHOUSE PLUMBING PLAN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
UKY1206

P6.0

RECORD DRAWING

GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRANT, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.
- ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL PIPING, DUCTWORK, EQUIPMENT, ETC SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF ANY CEILING.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH UK CAMPUS CONSTRUCTION STANDARDS.

SYMBOLS AND ABBREVIATIONS

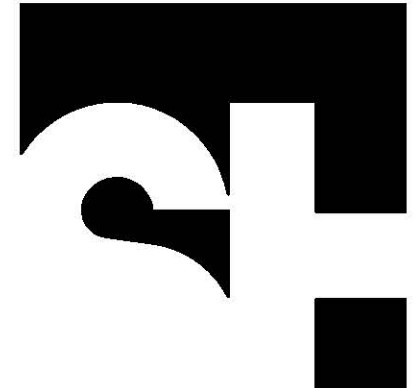
NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SLOT DIFFUSER
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	OUTSIDE AIR DUCT
	EXHAUST AIR DUCT
	VOLUME DAMPER
	EXHAUST AIR DUCT TURNING UP (SIMILAR FOR OTHER DUCT TYPES.)
	EXHAUST AIR DUCT TURNING DOWN (SIMILAR FOR OTHER DUCT TYPES.)
	MOTORIZED DAMPER
	FLEXIBLE DUCT
	THERMOSTAT, TEMPERATURE SENSOR
	CONDENSATE DRAIN
	HOT WATER RETURN
	HOT WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED/HOT WATER SUPPLY
	CHILLED/HOT WATER RETURN
	FIRE/SMOKE DAMPER WITH ACCESS DOOR
	FIRE DAMPER WITH ACCESS DOOR
	SMOKE DAMPER WITH ACCESS DOOR
	PIPE ELBOW TURNING UP/TURNING DOWN
	AIR DISTRIBUTION DEVICE DESIGNATOR XXX INDICATES CFM
	CONNECT TO EXISTING (VERIFY EXACT LOCATION)
	TWO WAY CONTROL VALVE (CONTROL VALVE GENERAL)
	CONTROL VALVE (3-WAY)
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE
	UNION
	PET'S PLUG
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	STRAINER
	O S & Y VALVE (GATE)
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	BALL VALVE
	SAFETY RELIEF VALVE
	GLOBE VALVE
	MANUAL AIR VENT (AUTOMATIC AIR VENT WITH CIRCLE)
	PUMP SUCTION DIFFUSER
	THERMOMETER
	PRESSURE SWITCH
	TAMPER SWITCH
	FLOW SWITCH
	ACCESS DOOR IN BOTTOM OF DUCT
	ACCESS DOOR IN SIDE OF DUCT
	EXISTING PIPING OR DUCTWORK (THIN LINE)
	ABANDONED EXISTING PIPING (THIN SOLID LINE)
	PIPING TEE (TURNED UP/DOWN)
	CLEANOUT IN CEILING SPACE
	FLOOR CLEANOUT
	LIMIT OF DEMOLITION
	EXISTING DUCT TO BE REMOVED
	MECHANICAL EQUIPMENT DESIGNATOR
	LOW PRESSURE STEAM SUPPLY (#) INDICATES PRESSURE
	MED. PRESSURE STEAM SUPPLY (#) INDICATES PRESSURE
	HIGH PRESSURE STEAM SUPPLY (#) INDICATES PRESSURE
	HIGH PRESSURE STEAM CONDENSATE
	MEDIUM PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM CONDENSATE

	PRESSURE GAUGE & COCK
	COMPOUND GAUGE
	VACUUM GAUGE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
CAV	CONSTANT AIR VOLUME REHEAT BOX
CD	CONDENSATE DRAIN
C.I.	CAST IRON
CO ₂	CARBON DIOXIDE
DN	DOWN
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
I	INSIDE DIMENSION
MOP	MOTOR OVERLOAD PANEL
NC	NORMALLY CLOSED
NC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
CPFI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFDI	OWNER FURNISHED, OWNER INSTALLED
PSI	POUNDS PER SQUARE INCH
SD	SMOKE DAMPER
TE	TOP ELEVATION
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME REHEAT BOX
VFD	VARIABLE FREQUENCY DRIVES

PHASING NOTE:
THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

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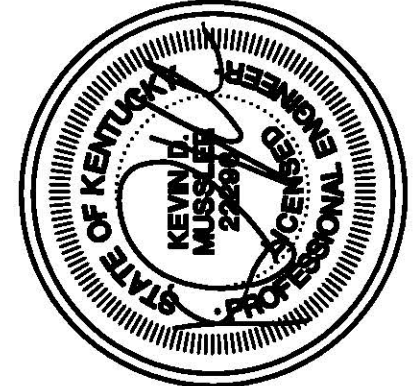
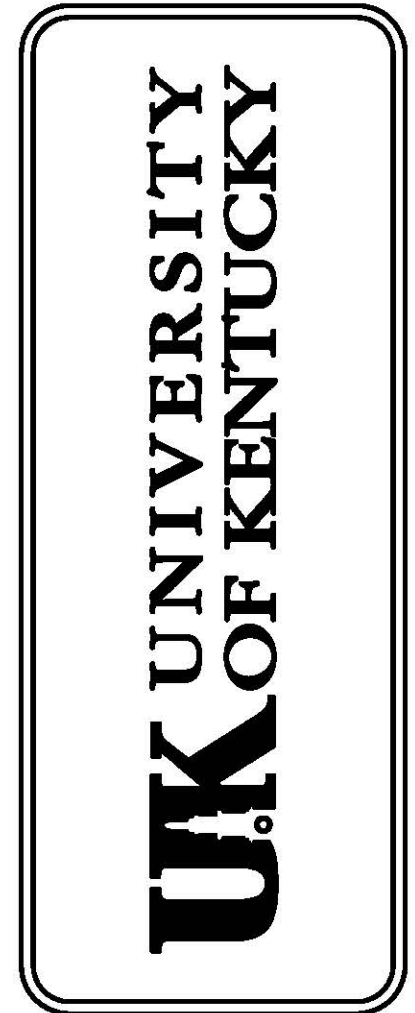


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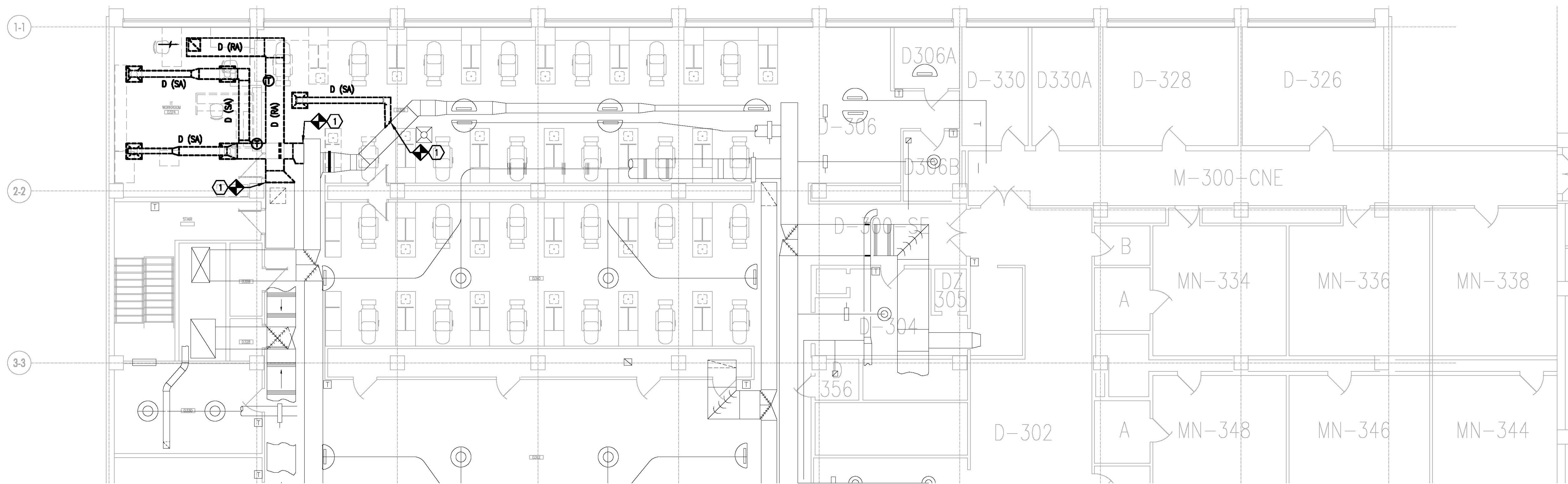
MECHANICAL LEGEND
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

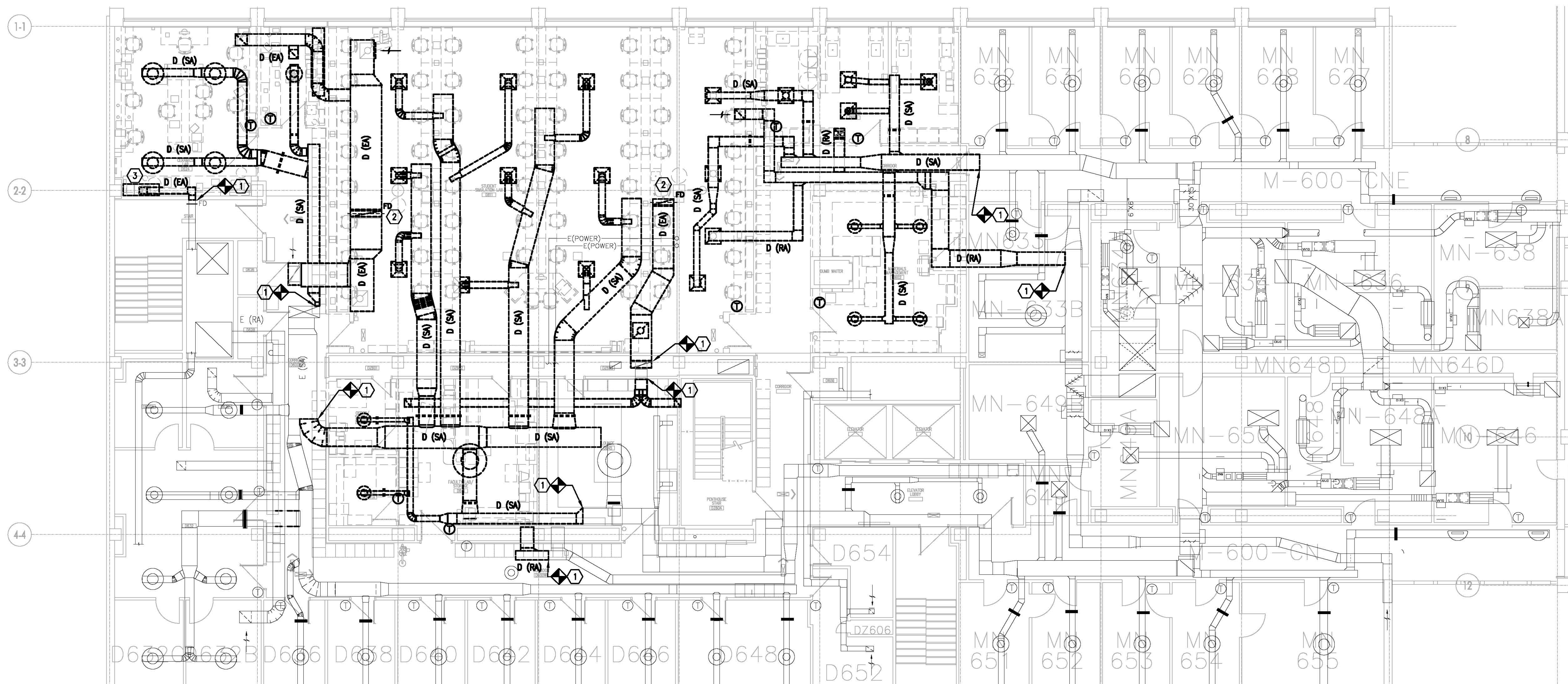
12 DECEMBER 2012
UKY1206

M1.0

RECORD DRAWING



02
M2.0
PARTIAL THIRD FLOOR
HVAC DEMOLITION PLAN
1/8" = 1'-0"
NORTH



01
M2.0
PARTIAL SIXTH FLOOR
HVAC DEMOLITION PLAN
1/8" = 1'-0"
NORTH

GENERAL NOTES:

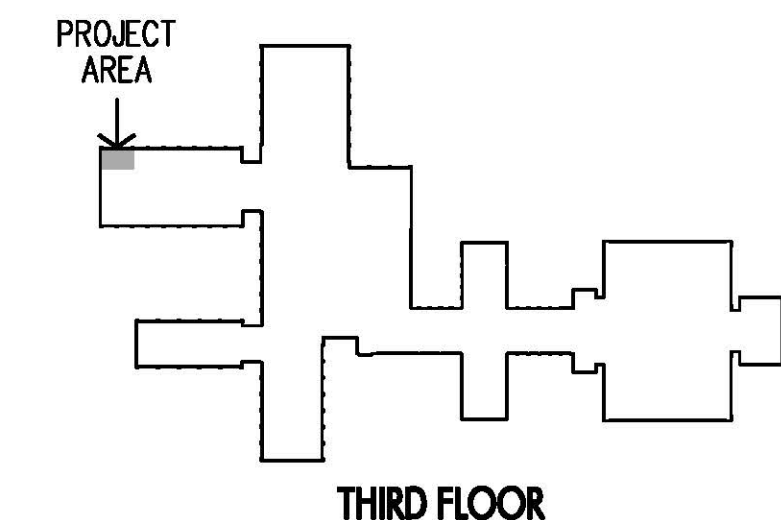
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- B. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- C. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF CEILING TILES AND REINSTALLATION IN AREAS WHERE CEILING ARE NOT BEING REPLACED. IF A TILE IS BROKEN OR DAMAGED DURING REMOVAL, THE CONTRACTOR SHALL REPLACE WITH A SIMILAR NEW TILE AT NOW ADDITIONAL COST TO THE OWNER.

TAGGED NOTES:

- 1. CAP EXISTING DUCT AT THIS LOCATION. SEAL AIRTIGHT.
- 2. PATCH AND REPAIR FLOOR PENETRATION TO LIKE NEW CONDITION. MAINTAIN FLOOR SLAB RATING.
- 3. REMOVE EXISTING CANOPY HOOD AND ASSOCIATED DUCT TO POINT INDICATED ON DRAWINGS.

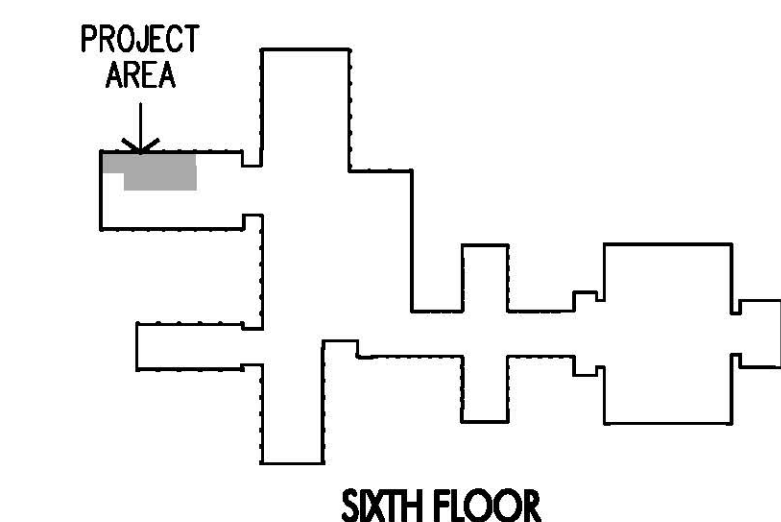
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KEYPLAN
NOT TO SCALE

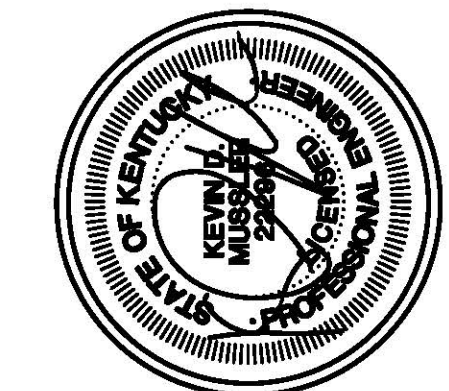


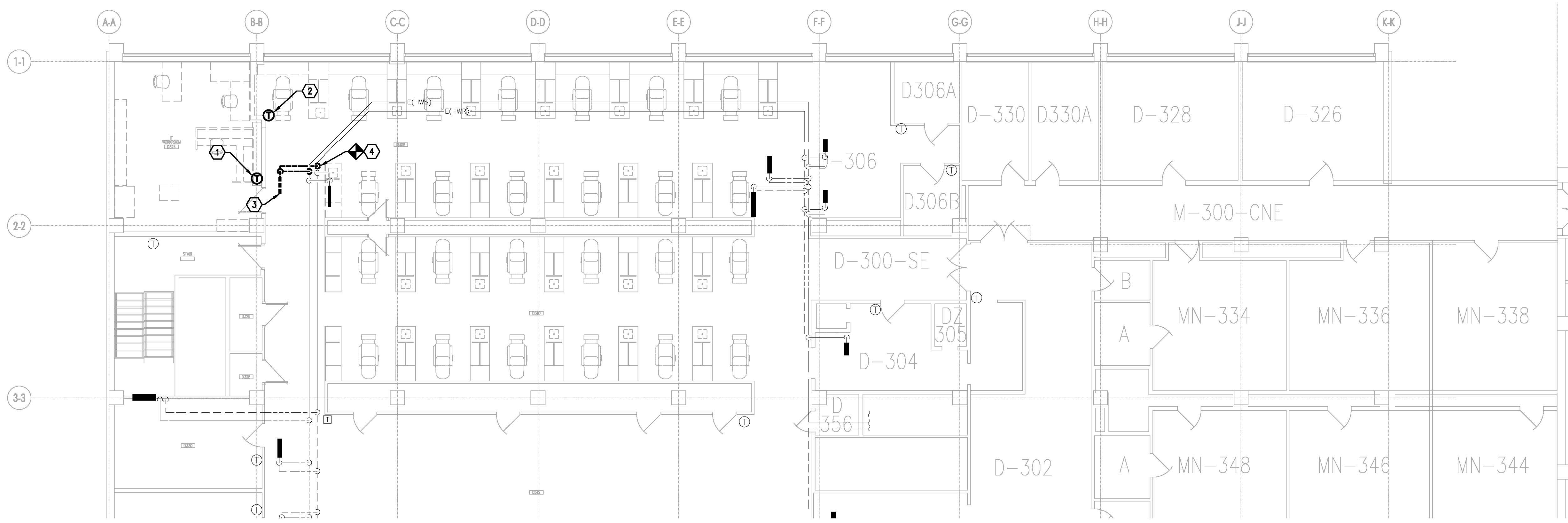
THIRD FLOOR

KEYPLAN
NOT TO SCALE

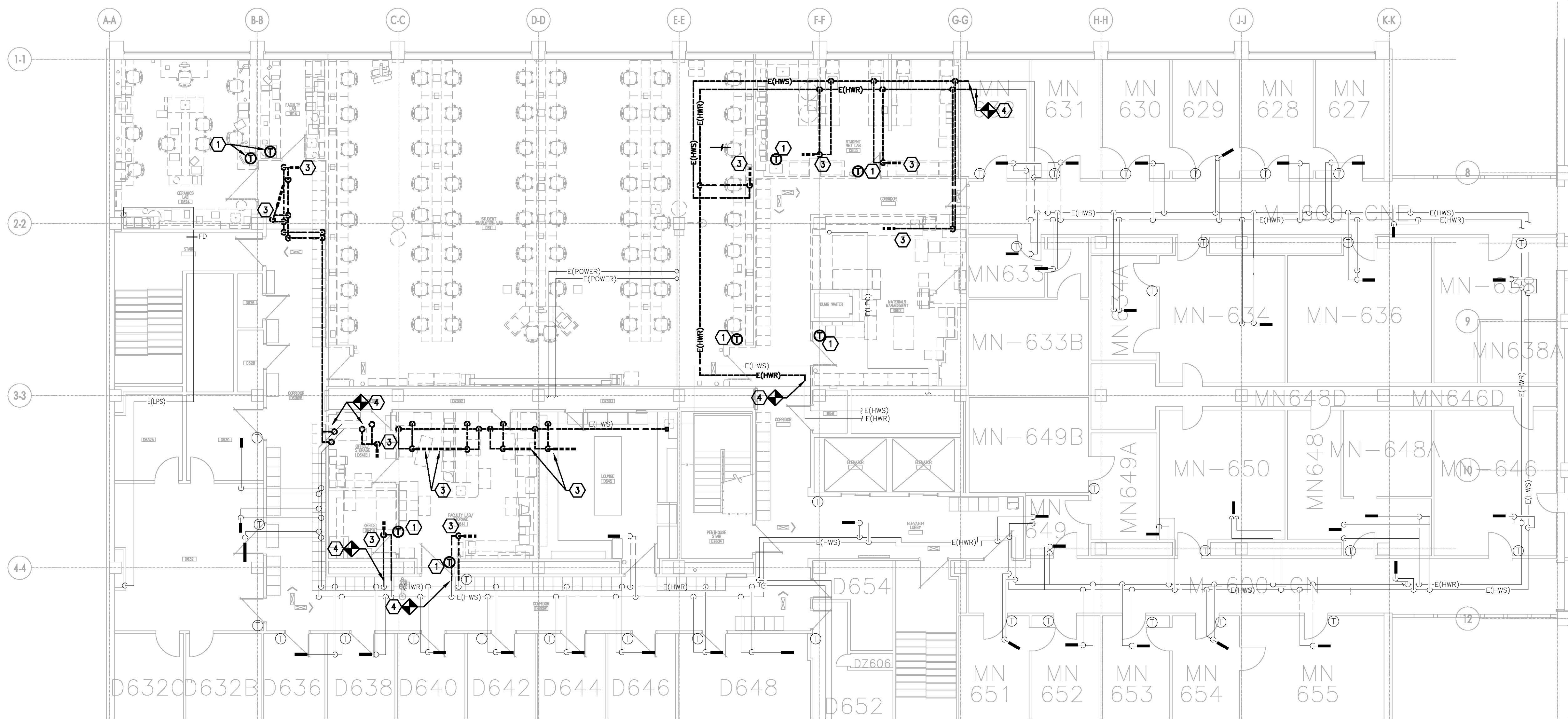


SIXTH FLOOR





02
N2.0
PARTIAL THIRD FLOOR
HVAC DEMOLITION PLAN
1/8" = 1'-0"
NORTH



01
N2.0
PARTIAL SIXTH FLOOR
HVAC DEMOLITION PLAN
1/8" = 1'-0"
NORTH

GENERAL NOTES:

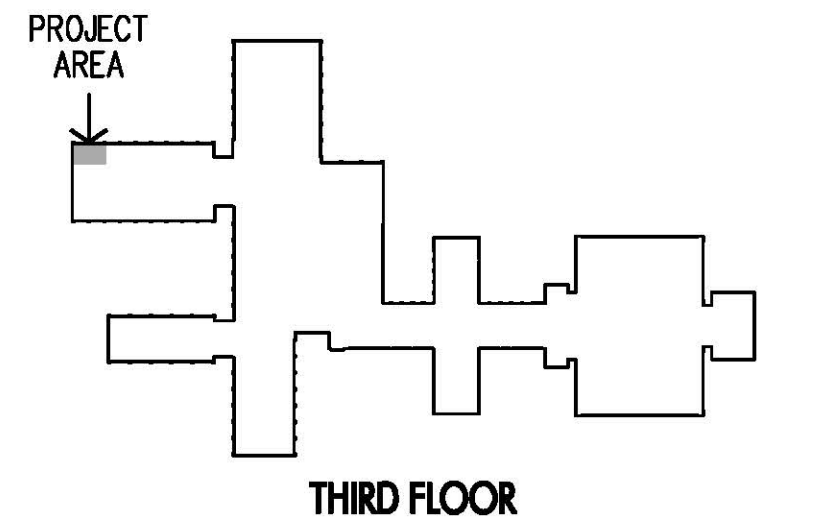
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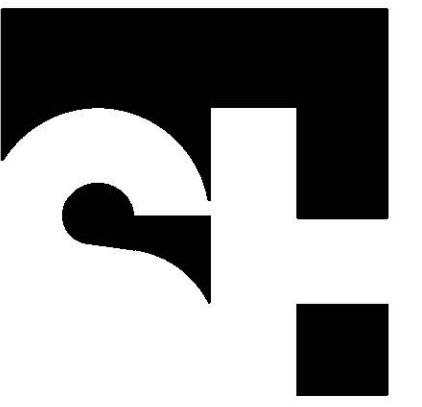
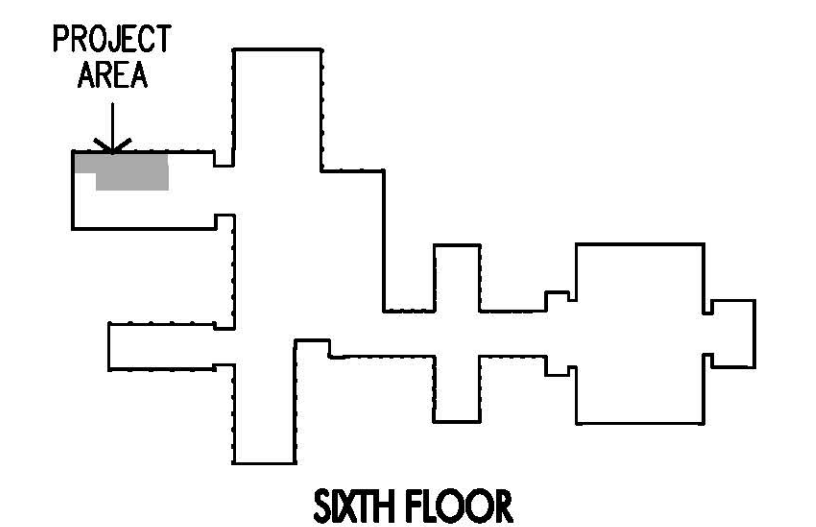
- 1. EXISTING PNEUMATIC THERMOSTAT TO BE COMPLETELY REMOVED. PATCH AND REPAIR WALL TO MATCH ADJACENT WHERE REQUIRED.
- 2. EXISTING PNEUMATIC THERMOSTAT TO BE RELOCATED.
- 3. EXISTING REHEAT COIL TO BE COMPLETELY REMOVED. REMOVE ALL ASSOCIATED PIPING, DUCTWORK, CONTROLS, ETC.
- 4. CAP EXISTING HOT WATER SUPPLY AND RETURN PIPES IN THIS LOCATION. SEAL AIRTIGHT.

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KEYPLAN
NOT TO SCALE

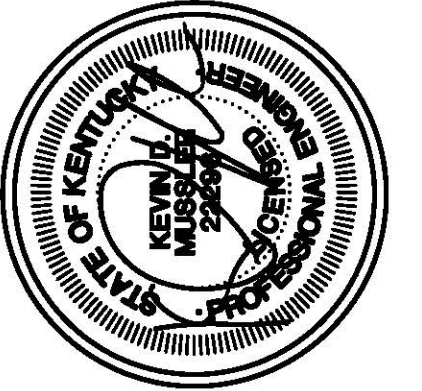


KEYPLAN
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STENGENL-HILL
ARCHITECTURE

619 WEST MAIN STREET
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502.893.1875
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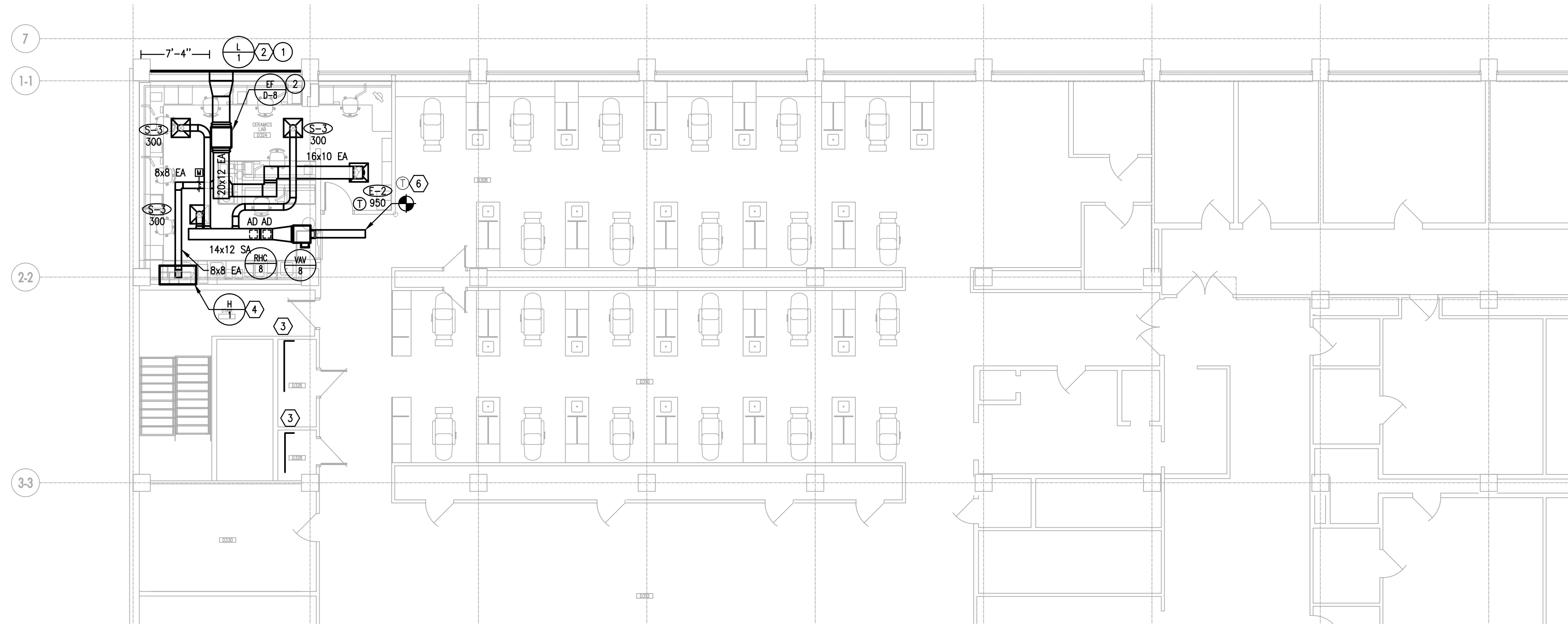
HYDRONIC PIPING DEMOLITION PLANS
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

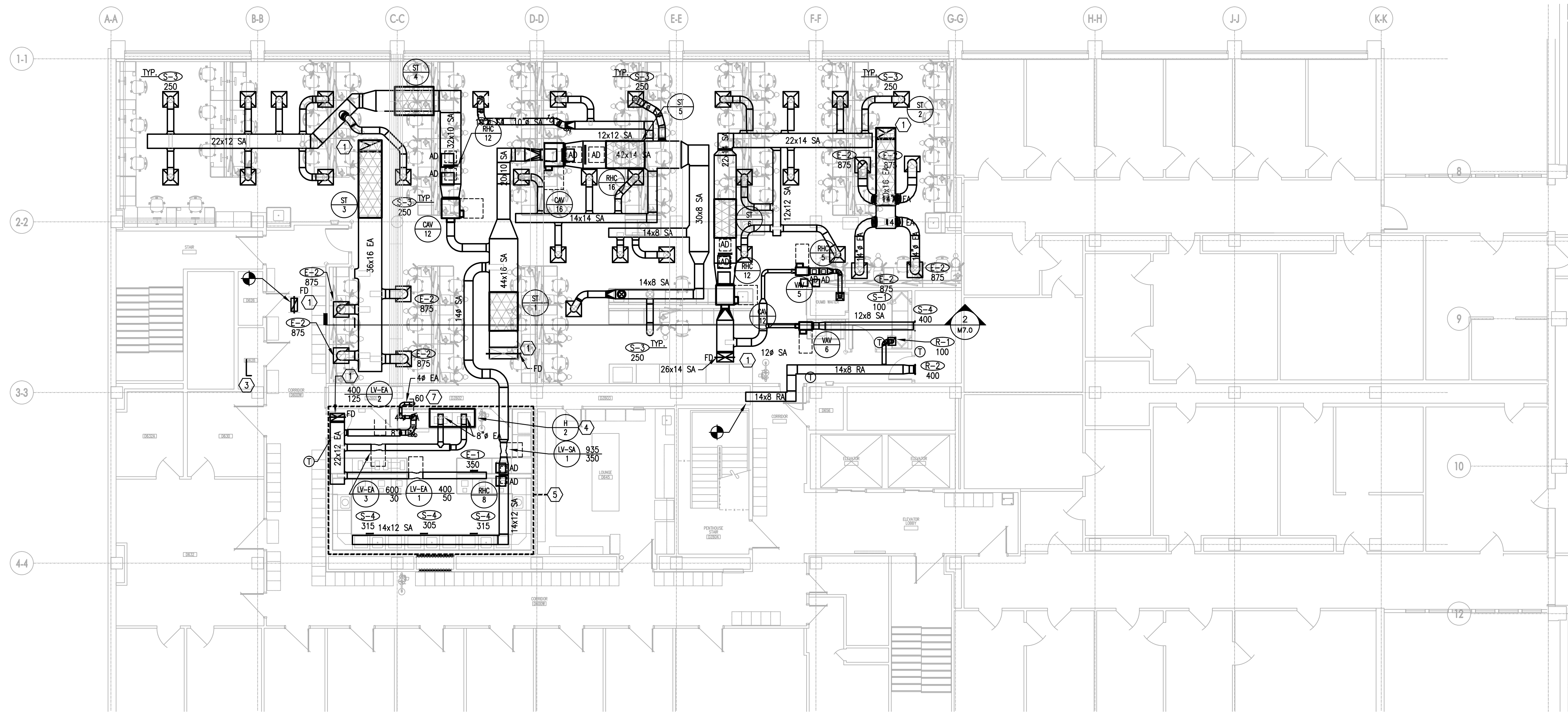
12 DECEMBER 2012
UKY1206

M2.1

RECORD DRAWING



02 PARTIAL THIRD FLOOR
AIR DISTRIBUTION DESIGN
N3.0 1/8" = 1'-0" NORTH



01 PARTIAL SIXTH FLOOR
AIR DISTRIBUTION DESIGN
N3.0 1/8" = 1'-0" NORTH

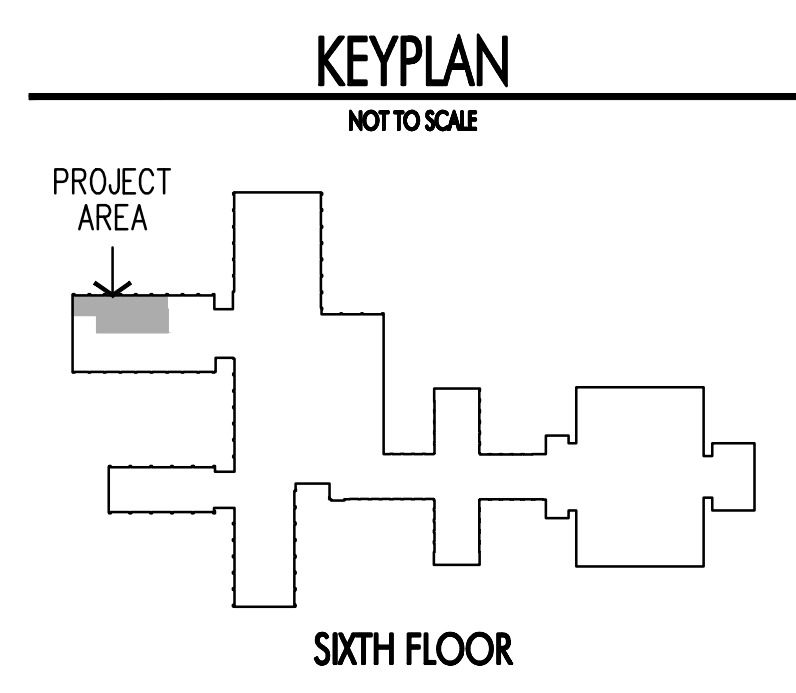
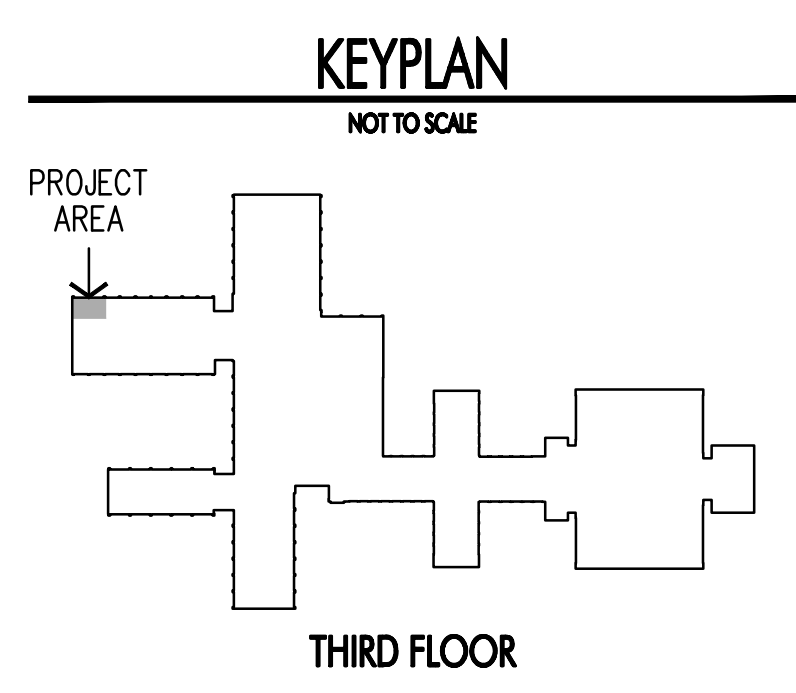
DUCT RUNOUT SCHEDULE	
REGISTERS, GRILLES, & DIFFUSER DESIGNATION	DUCT SIZE
S-1	6"
S-2	8"
S-3	10"
R-1	6"
E-2	14"

* UNLESS OTHERWISE NOTED ON DRAWINGS

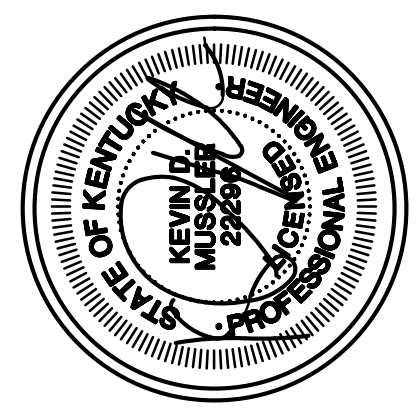
VAV/CAV DUCT RUNOUT SCHEDULE	
VAV AND CAV DESIGNATION	DUCT SIZE
CAV/VAV-5	5"
CAV/VAV-6	6"
CAV/VAV-8	8"
CAV/VAV-12	13"x10"
CAV/VAV-16	20"x10"

- TAGGED NOTES:
- ROUTE DUCT UP AND PENETRATE SLAB ABOVE. SEAL AIR TIGHT. COORDINATE PENETRATION WITH EXISTING STRUCTURAL MEMBERS. REFER TO PARTIAL PENTHOUSE AIR DISTRIBUTION DESIGN PLAN FOR CONTINUATION.
 - CONNECT 30"x12" DUCT TO LOUVER. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR UNUSED LOUVER AREA. PROVIDE 12" DEEP PLENUM ON BACK OF LOUVER.
 - BEFORE ANY WORK IS PERFORMED, TEST AND BALANCE CONTRACTOR SHALL TEST EXISTING AIR FLOW AT MAIN SUPPLY AND RETURN FOR EACH FLOOR VIA TRAVERSE. CONTRACTOR SHALL REMOVE EXISTING ORIFICE PLATE FROM DUCTWORK, INSTALL NEW BALANCING DAMPER AND REBALANCE MAIN SUPPLY AND RETURN DUCTS SERVING EACH FLOOR TO MATCH EXISTING AIR FLOW PRIOR TO PERFORMING WORK.
 - MOUNT HOOD 6' ABOVE FINISHED FLOOR.
 - OUTLINED AREA IS EXPOSED CEILING. EXPOSED DUCTWORK AND EQUIPMENT IN THIS AREA SHALL BE PAINTED. EXPOSED SUPPLY DUCTWORK SHALL BE CANVAS WRAPPED AND PAINTED. PAINT COLOR SELECTED BY ARCHITECT. TYPICAL OF ALL EXPOSED DUCTWORK UNLESS OTHERWISE NOTED.
 - RELOCATE EXISTING PNEUMATIC THERMOSTAT IN THIS APPROXIMATE LOCATION. PROVIDE ALL NECESSARY PIPING TO CONNECT TO EXISTING THERMOSTAT.
 - ROUTE 4" EXHAUST DUCT DOWN MECHANICAL CLOSET WALL TO FLAMMABLE CABINET CONNECTION HEIGHT LOCATED ON OPPOSITE SIDE OF WALL.

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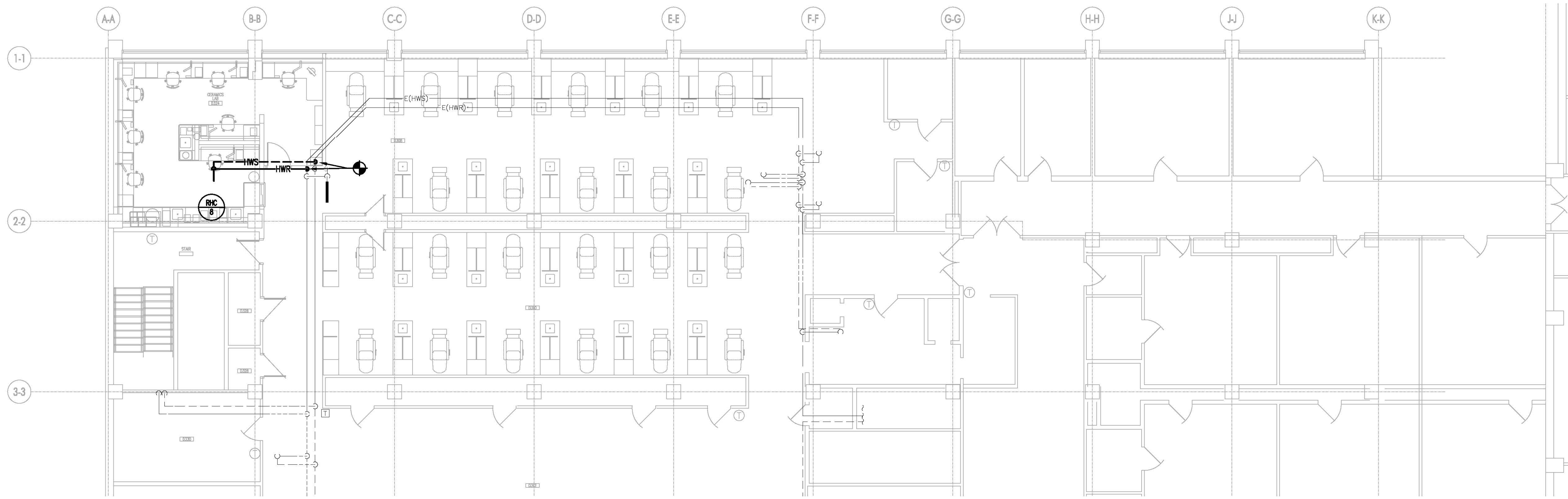


AIR DISTRIBUTION DESIGN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

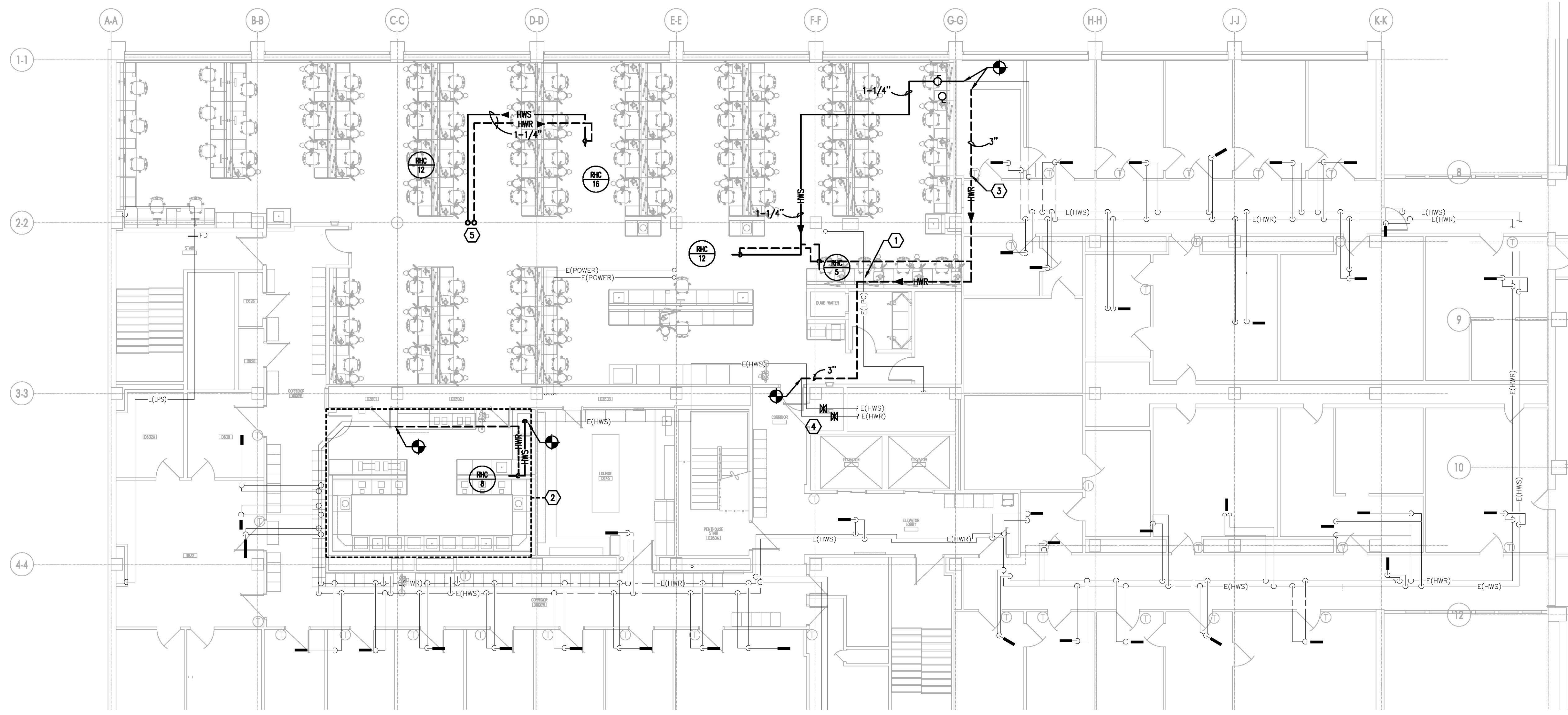
RECORD DRAWING
12 DECEMBER 2012
UKY1206

M3.0

RECORD DRAWING



02
PARTIAL THIRD FLOOR
HYDRONIC PIPING DESIGN
M3.1 1/8" = 1'-0" NORTH



01
PARTIAL SIXTH FLOOR
HYDRONIC PIPING DESIGN
M3.1 1/8" = 1'-0" NORTH

GENERAL NOTES:

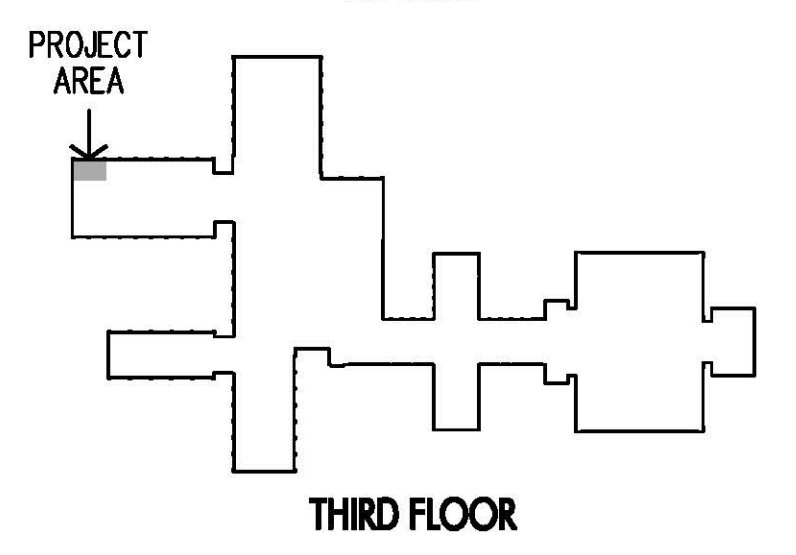
- A. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- B. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- C. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF CEILING TILES AND REINSTALLATION IN AREAS WHERE CEILING ARE NOT BEING REPLACED. IF A TILE IS BROKEN OR DAMAGED DURING REMOVAL, THE CONTRACTOR SHALL REPLACE WITH A SIMILAR NEW TILE AT NOW ADDITIONAL COST TO THE OWNER.

TAGGED NOTES:

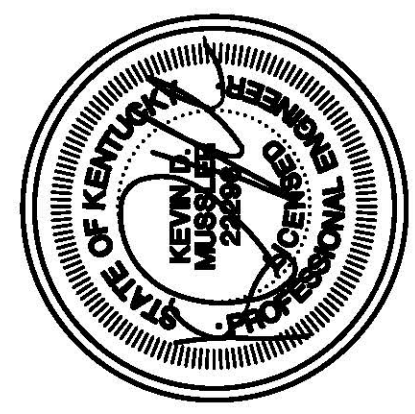
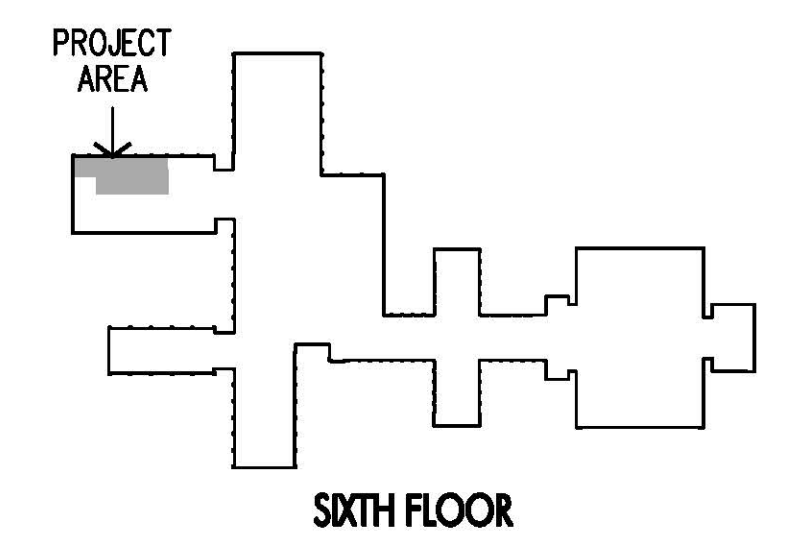
- 1. INSULATE EXISTING LOW PRESSURE CONDENSATE PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. OUTLINED AREA IS EXPOSED CEILING. REPAIR AND REINSULATE EXISTING PIPE TO A LIKE NEW CONDITION. EXPOSED PIPING SHALL BE CANVAS WRAPPED AND PAINTED. PAINT COLOR SELECTED BY ARCHITECT.
- 3. PROVIDE NEW 3" HOT WATER RETURN MAIN CONNECTOR PIPING TO KEEP HOT WATER SYSTEM OPERATIONAL. COORDINATE SHUT DOWN OF EXISTING HOT WATER SYSTEM WITH HOSPITAL.
- 4. PROVIDE NEW HOT WATER SHUT OFF VALVES IN EXISTING HOT WATER PIPING PRIOR TO REMOVAL OF ANY PIPING. COORDINATE SHUT DOWN OF EXISTING HOT WATER SYSTEM WITH HOSPITAL.
- 5. SUPPLY AND RETURN PIPING GOES UP TO PENTHOUSE.

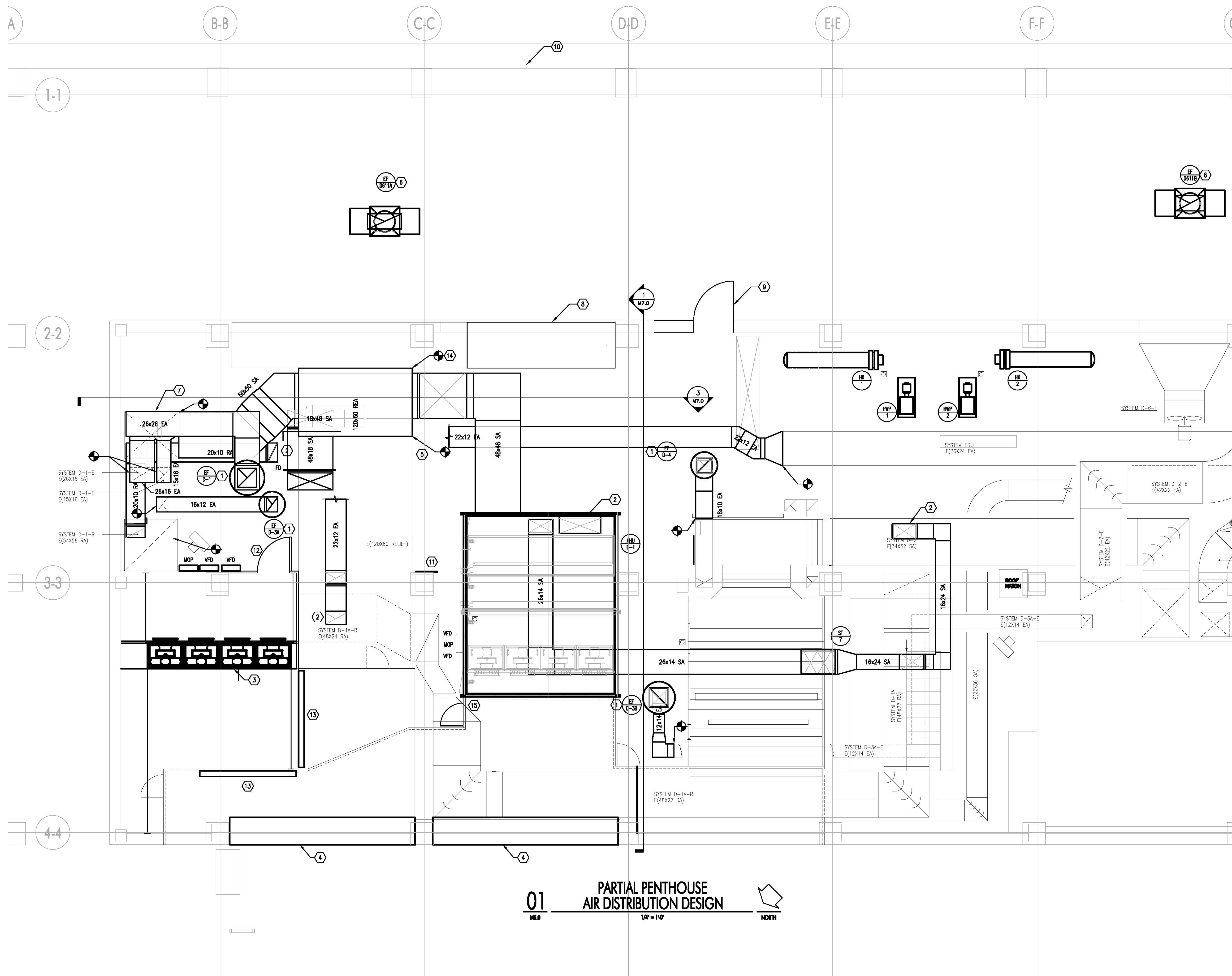
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KEYPLAN
NOT TO SCALE



KEYPLAN
NOT TO SCALE





TAGGED NOTES:

1. EXHAUST FAN LOCATED ON PENTHOUSE ROOF. MAINTAIN A MINIMUM OF 10' FROM PENTHOUSE ROOF EDGE. PROVIDE CUSTOM CURB AND/OR PANT LEG DUCTWORK AS NECESSARY TO FIT IN BETWEEN STRUCTURAL MEMBERS.
2. ROUTE DUCT DOWN AND PENETRATE PENTHOUSE FLOOR SLAB. REFER TO PARTIAL SIXTH FLOOR AIR DISTRIBUTION PLAN FOR CONTINUATION. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
3. PROVIDE NEW RETURN FAN ARRAY. PROVIDE SHEET METAL FOR AREA NOT USED IN FAN ARRAY. SEAL AIRTIGHT. PROVIDE STRUCTURAL TUBING ON ALL CORNERS OF FAN ARRAY IN ALL THREE DIMENSIONS TO FULLY SUPPORT THE FAN ARRAY.
4. REPLACE OUTSIDE AIR DAMPERS AND REPLACE ALL ASSOCIATED PNEUMATIC CONTROLS WITH DIRECT DIGITAL CONTROLS.
5. ROUTE EXHAUST DUCT DOWN SUCH THAT TOP OF EXHAUST DUCT IS HELD TIGHT TO UNDERSIDE OF EXISTING ROOF LEADER TO MAXIMIZE FLOOR SPACE BELOW DUCT.
6. EXHAUST FANS LOCATED ON ROOF. MAINTAIN A MINIMUM OF 10' FROM ROOF EDGE. PROVIDE CUSTOM CURB AND/OR PANT LEG DUCTWORK AS NECESSARY TO FIT IN BETWEEN STRUCTURAL MEMBERS.
7. HOLD EXHAUST DUCTWORK AS TIGHT TO PENTHOUSE STRUCTURE AS POSSIBLE.
8. REPLACE/MODIFY EXISTING LOUVER AFTER THE NEW AIR HANDLING UNIT IS INSTALLED.
9. REPLACE/MODIFY EXISTING DOOR AFTER THE NEW AIR HANDLING UNIT IS INSTALLED.
10. ROOF LEDGE.
11. TEMPERATURE CONTROL PANEL.
12. REPLACE/MODIFY EXISTING RETURN AIR PLENUM AFTER THE NEW RETURN FAN ARRAY IS INSTALLED. PROVIDE NEW RETURN AIR PLENUM DOOR AS NECESSARY TO ACCOMMODATE RETURN AIR FAN REPLACEMENT.
13. REPLACE EXISTING RETURN AND RELIEF AIR DAMPERS AND ACTUATORS.
14. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR UNUSED LOUVER AREA.
15. REPLACE/MODIFY EXISTING RETURN AIR PLENUM AND DOOR AFTER THE NEW AIR HANDLING UNIT IS INSTALLED.

PHASING NOTES:

THE AIR HANDLING UNIT SHALL BE REPLACED OVER THE JULY 4TH WEEKEND. THE CONTRACTOR SHALL BEGIN THE REPLACEMENT JULY 3RD AT 5:00 PM AND SHALL COMPLETE THEIR WORK BY MONDAY JULY 8TH AT 2:00 AM. THE CONTRACTOR IS RESPONSIBLE FOR STAFFING AND COORDINATING WITH TRADES AS REQUIRED TO ACCOMMODATE THEIR WORK IN THIS TIME FRAME.

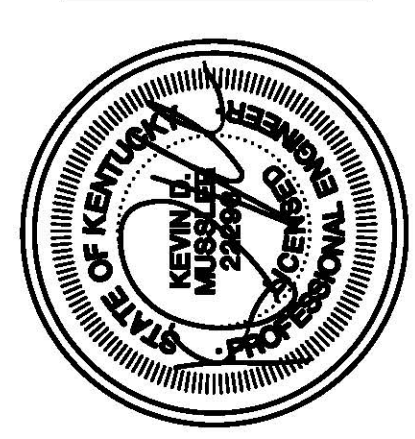
- 1.1. REMOVAL AND REPLACEMENT OF THE AIR HANDLING UNIT WITH FINAL CONNECTIONS MADE TO THE SUPPLY, RETURN, OUTSIDE AIR, AND RELIEF AIR DUCTS SUCH THAT THE UNIT WILL BE FULLY FUNCTIONING AND CONTROLS COMPLETED BY 2:00 AM MONDAY MORNING.
- 1.2. THE CHILLED WATER COIL SHALL BE FULLY PIPED WITH ALL REQUIRED VALVING AND CONTROLS BY 2:00 AM MONDAY MORNING.
- 1.3. THE CONTRACTOR SHALL HAVE THE OPTION OF REPLACING THE RETURN FAN DURING ANOTHER WEEKEND TO ACCOMMODATE THE AIR HANDLING UNIT REPLACEMENT OR REPLACING IT OVER THE SAME WEEKEND.
- 1.4. THE HOT WATER COIL PIPING DOES NOT HAVE TO BE COMPLETED OVER THIS WEEKEND BUT SHALL BE COMPLETED BY OCTOBER 1, 2013.
- 1.5. WHEN REPLACING THE AIR HANDLING UNIT, THE NEW PENTHOUSE ROOFTOP EXHAUST FANS INDICATED ON THE DRAWINGS SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE AIR HANDLING UNIT.
- 1.6. THE FINAL BALANCING OF THE SUPPLY AND RETURN DAMPERS ON EACH FLOOR SHALL BE ACCOMMODATED AT A LATER DATE.
- 1.7. THE HOT WATER HEAT EXCHANGERS SHALL BE REPLACED PRIOR TO THE JULY 4TH AIR HANDLING UNIT REPLACEMENT. THESE SHALL BE REPLACED ANY TIME AFTER MAY 1ST. THE CONTRACTOR SHALL KEEP ONE HEAT EXCHANGER AND PUMP IN OPERATION WHILE REPLACING THE OTHER. SHUT DOWNS SHALL OCCUR ON WEEKENDS AS REQUIRED TO REPLACE OR INSTALL NEW ISOLATION VALVES FOR STEAM AND HOT WATER.

01 PARTIAL PENTHOUSE AIR DISTRIBUTION DESIGN
 M5.0 1/4" = 1'-0" NORTH

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STENGENL-HILL ARCHITECTURE
 619 WEST MAIN STREET
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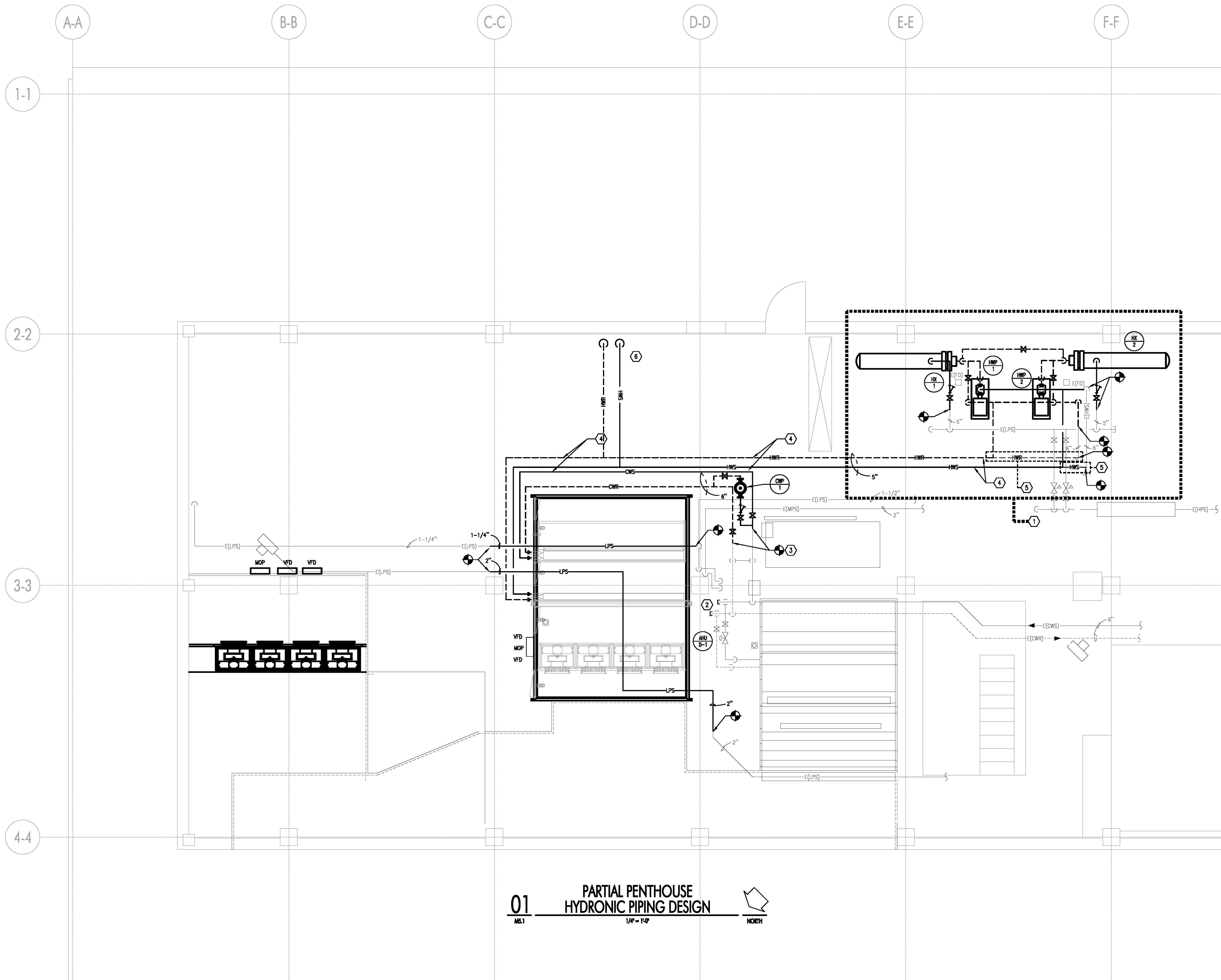


PENTHOUSE AIR DISTRIBUTION DESIGN
 RENOVATE DENTISTRY CLASS LABS
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

RECORD DRAWING
 12 DECEMBER 2012
 UKY1206

M5.0

RECORD DRAWING



TAGGED NOTES: (X)

1. IN ADD ALTERNATE #1, PROVIDE NEW HEAT EXCHANGERS, PUMPS, AND ASSOCIATED PIPING, CONTROL VALVES, CONTROLS, ETC. TO POINT INDICATED ON DRAWINGS FOR EXISTING HOT WATER SYSTEM. COORDINATE SHUT DOWN OF HOT WATER SYSTEM WITH HOSPITAL.
2. CAP EXISTING ABANDONED CHILLED WATER PIPING.
3. CONNECT TO EXISTING CHILLED WATER PIPING. ROUTE AND CONNECT TO COOLING COIL OF NEW AIR HANDLING UNIT.
4. HOLD HYDRONIC PIPING AS HIGH AS POSSIBLE.
5. IN BASE BID, CONNECT HOT WATER PIPING TO EXISTING SYSTEM IN THIS APPROXIMATE LOCATION. COORDINATE SHUT DOWN OF HOT WATER SYSTEM WITH HOSPITAL.
6. HWS AND HWR FOR 6TH FLOOR REHEAT COIL.

PHASING NOTES:

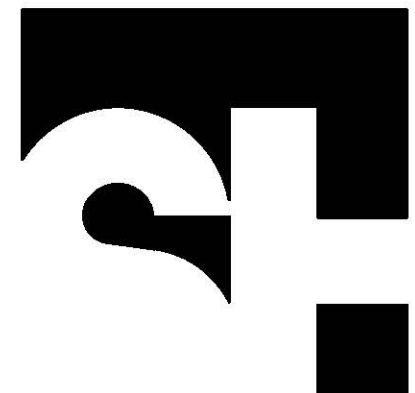
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- 1.1. REMOVAL AND REPLACEMENT OF THE AIR HANDLING UNIT WITH FINAL CONNECTIONS MADE TO THE SUPPLY, RETURN, OUTSIDE AIR, AND RELIEF AIR DUCTS SUCH THAT THE UNIT WILL BE FULLY FUNCTIONING AND CONTROLS COMPLETED BY 2:00 AM MONDAY MORNING.
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- 1.6. THE FINAL BALANCING OF THE SUPPLY AND RETURN DAMPERS ON EACH FLOOR SHALL BE ACCOMMODATED AT A LATER DATE.
- 1.7. THE HOT WATER HEAT EXCHANGERS SHALL BE REPLACED PRIOR TO THE JULY 4TH AIR HANDLING UNIT REPLACEMENT. THESE SHALL BE REPLACED ANY TIME AFTER MAY 1ST. THE CONTRACTOR SHALL KEEP ONE HEAT EXCHANGER AND PUMP IN OPERATION WHILE REPLACING THE OTHER. SHUT DOWNS SHALL OCCUR ON WEEKENDS AS REQUIRED TO REPLACE OR INSTALL NEW ISOLATION VALVES FOR STEAM AND HOT WATER.

01 PARTIAL PENTHOUSE HYDRONIC PIPING DESIGN
MS.1 1/4" = 1'-0"

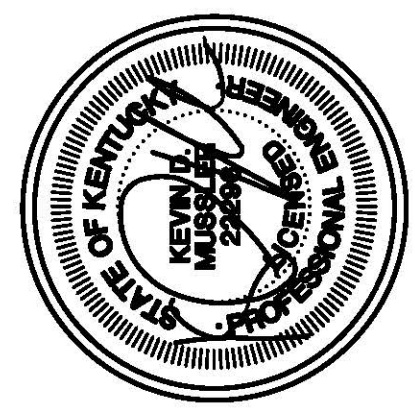
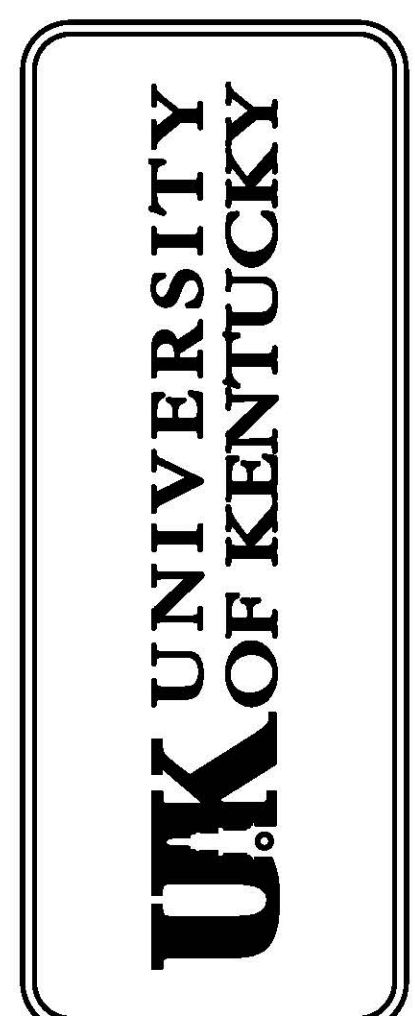


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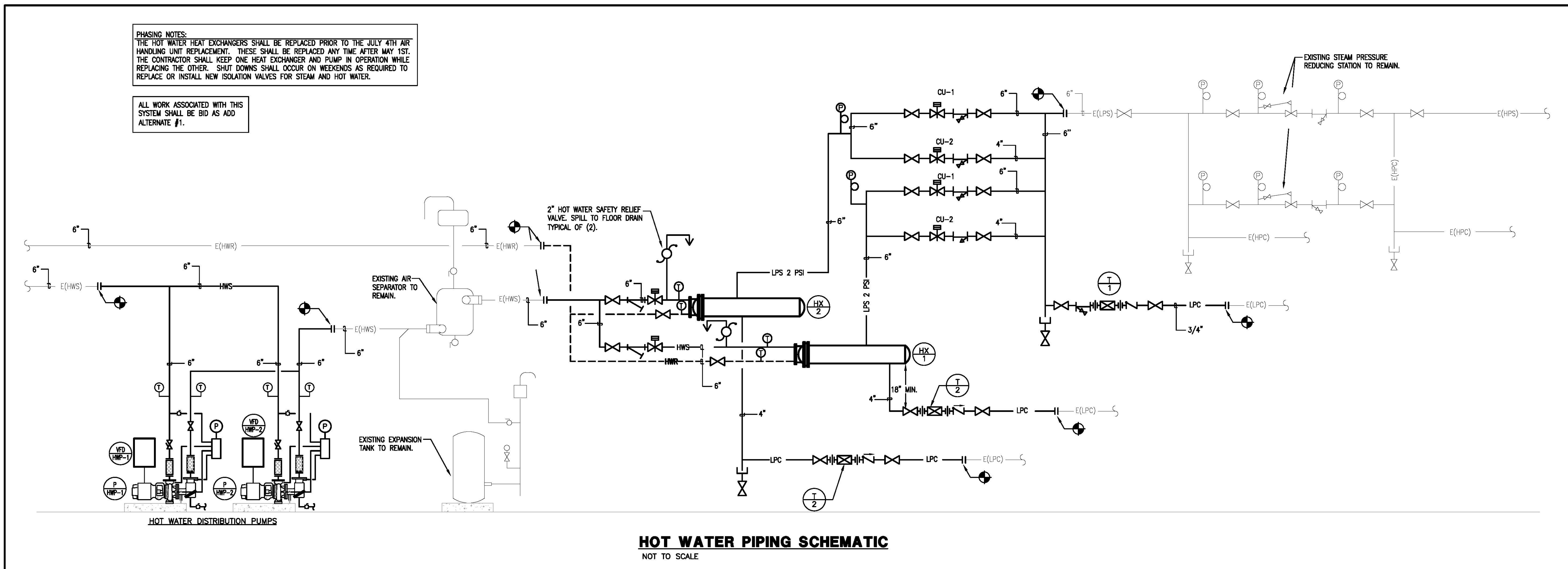
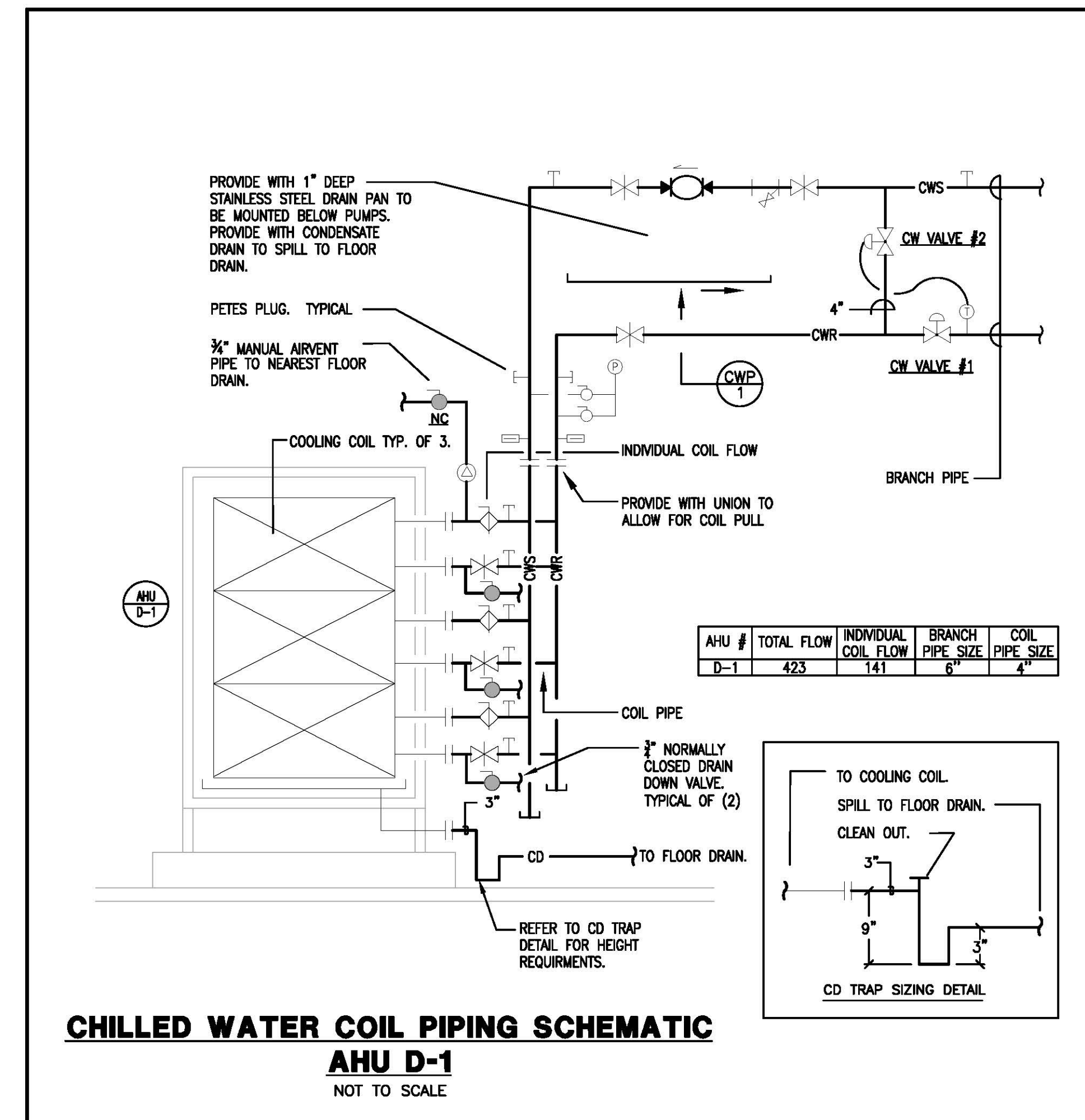
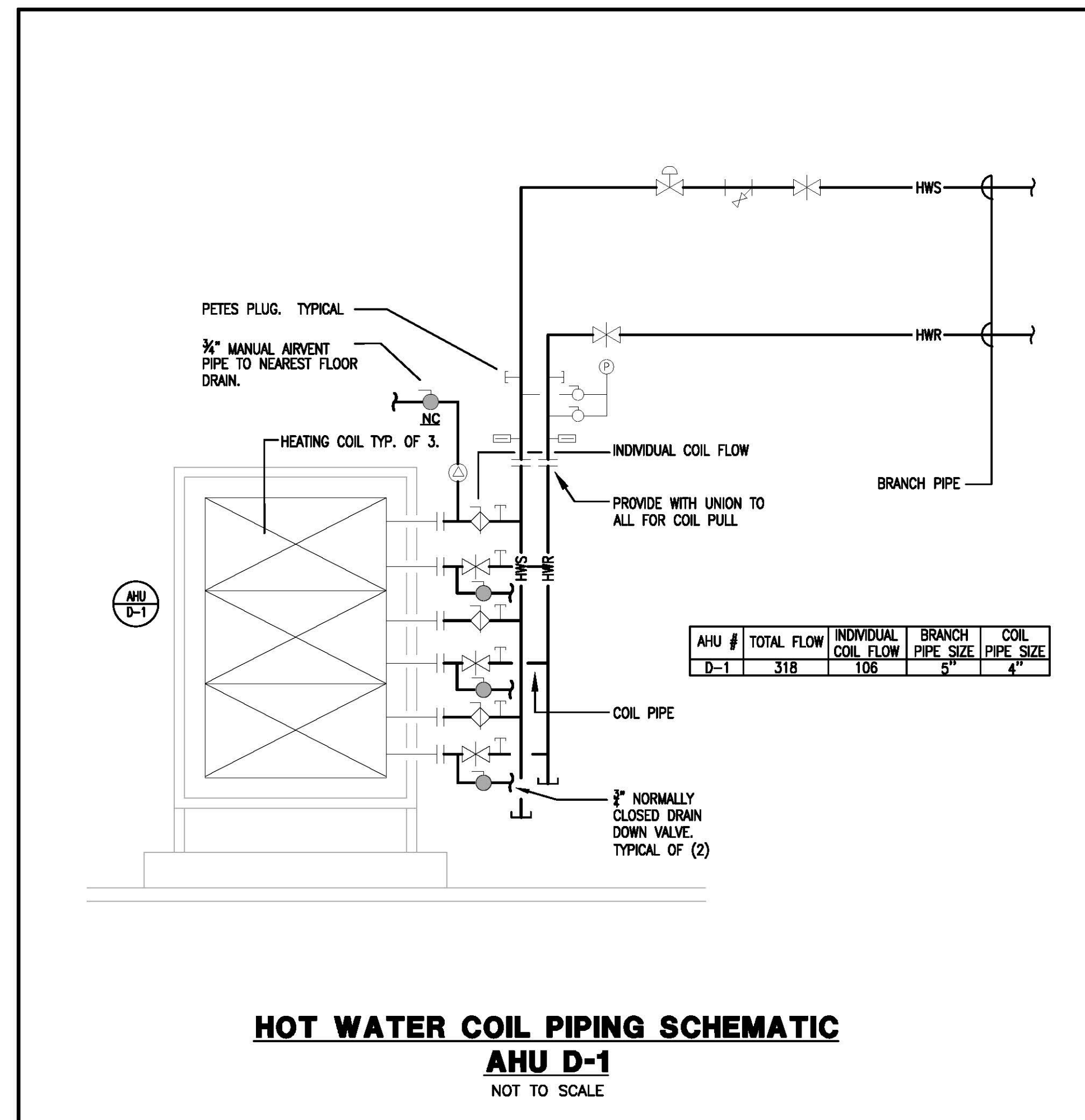
PENTHOUSE HYDRONIC PIPING DESIGN
 RENOVATE DENTISTRY CLASS LABS
 UNIVERSITY OF KENTUCKY
 LEXINGTON, KENTUCKY

RECORD DRAWING
 12 DECEMBER 2012
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PHASING NOTES:
THE HOT WATER HEAT EXCHANGERS SHALL BE REPLACED PRIOR TO THE JULY 4TH AIR HANDLING UNIT REPLACEMENT. THESE SHALL BE REPLACED ANY TIME AFTER MAY 1ST. THE CONTRACTOR SHALL KEEP ONE HEAT EXCHANGER AND PUMP IN OPERATION WHILE REPLACING THE OTHER. SHUT DOWNS SHALL OCCUR ON WEEKENDS AS REQUIRED TO REPLACE OR INSTALL NEW ISOLATION VALVES FOR STEAM AND HOT WATER.

ALL WORK ASSOCIATED WITH THIS SYSTEM SHALL BE BID AS ADD ALTERNATE #1.



REGISTERS, GRILLES AND DIFFUSERS										
SYMBOL	MANUF. & MODEL	MATERIAL & TYPE	CFM RANGE	PHYSICAL SIZE				P.D.	NC	REMARKS
				GRILL SIZE	OVERALL FACE SIZE	NECK SIZE	INLET DUCT SIZE			
S-1	TITUS TDCA-AA SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	0-100	12X12	12X12	6"φ	6"φ	.05	25	1, 2, 3
S-2	TITUS TDCA-AA SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	101-225	15X15	24X24	8"φ	8"φ	.05	25	1, 2, 3
S-3	TITUS TDCA-AA SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	226-400	18X18	24X24	10"φ	10"φ	.05	25	1, 2, 3
S-4	TITUS 300FS	ALUMINUM SIDEWALL GRILLE	200-400	12X8	14X10	12X8	-	.05	25	1, 2, 3
R-1	TITUS 50F MODEL	ALUMINUM 1/2" EGG CRATE	0-100	12X12	12X12	6"φ	6"φ	.05	25	1, 2
R-2	TITUS 350FL	ALUMINUM SIDEWALL GRILLE	200-400	12X8	14X10	12X8	-	.05	25	1, 2
E-1	TITUS 350FL	ALUMINUM SIDEWALL GRILLE	200-400	12X8	14X10	12X8	-	.05	25	1, 2
E-2	TITUS 50F MODEL	ALUMINUM 1/2" EGG CRATE	601-1000	24X24	24X24	14φ	14φ	.05	25	1, 2

- REMARKS:
 1. COLOR TO BE WHITE, UNLESS OTHERWISE NOTED BY ARCHITECT.
 2. COORDINATE MOUNTING TYPE (LAY-IN, GYP BOARD, ETC.) WITH ARCHITECTURAL DRAWINGS.
 3. PROVIDE OPTIONAL AIR ADJUSTER FLAPS/AIR PATTERN DEFLECTORS.

SILENCER SCHEDULE																		
TAG	QTY	SILENCER DIMENSIONS			AIR FLOW (CFM)	VELOCITY (FPM)	SILENCER PD in wg	PD INCL. SYS. EFF. in. wg.	DYNAMIC INSERTION LOSS, dB							VIBRO-ACOUSTICS MODEL	REMARK	
		WIDTH	HEIGHT	LENGTH					63	125	250	500	1000	2000	4000			8000
ST-1	1	48	16	60	5,685	+1163	0.13	0.19	6	11	20	18	21	21	14	9	EXRFMB-MV-FJ-L14922	1,2,3,4,7
ST-2	1	30	28	120	3,500	-1050	0.2	0.41	12	28	40	53	54	55	45	32	EXRED-MLV-FB-L14922	1,2,3,5,6
ST-3	1	36	28	120	3,500	-875	0.14	0.29	12	28	40	53	54	55	45	32	EXRED-MLV-FB-L14922	1,2,3,5,6
ST-4	1	44	10	60	2,000	+900	0.05	0.08	6	10	20	18	21	21	15	9	EXRFMB-MV-FG-L14922	1,2,3,4,7
ST-5	1	42	14	60	2,750	+943	0.06	0.19	6	9	20	18	21	21	15	9	EXRFMB-MV-FF-L14922	1,2,3,4,7
ST-6	1	34	14	60	2,000	+935	0.05	0.08	5	8	19	18	22	22	16	9	EXRFMB-MV-FB-L14922	1,2,3,4,7
ST-7	1	26	14	36	2,500	+1071	0.05	0.06	1	5	10	10	10	10	5	5	RFMB-HV-FJ-L14922	1,3,4,6,7

- REMARKS:
 1. EXRED = EXTENDED ELBOW DISSIPATIVE
 RFMB = RECTANGULAR FILM LINED MOLDBLOCK
 EXRFMB = EXTENDED RECTANGULAR FILM LINED MOLDBLOCK
 2. PROVIDE WITH HTL CASING.
 3. PRESSURE DROP, DYNAMIC INSERTION LOSS AND SELF GENERATED NOISE PER ASTM E477-06A.
 4. ACOUSTIC MEDIA SHALL BE MYLAR ENCASED FOR HEALTHCARE APPLICATION.
 5. ELBOW SILENCER.
 6. ACOUSTIC MEDIA SHALL BE STANDARD FIBERGLASS WITHOUT FILM LINING.
 7. INSULATE ALL ATTENUATOR SIDES THAT ARE NOT PROVIDED WITH INTERNAL BAFFLES.

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VARIABLE AIR VOLUME BOX SCHEDULE					
SYMBOL	VAV-5	VAV-6	VAV-8	CAV-12	CAV-16
MANUFACTURER & MODEL	NAILOR- 3000 SERIES	NAILOR- 3000 SERIES	NAILOR- 3000 SERIES	NAILOR- 3000 SERIES	NAILOR- 3000 SERIES
BOX TYPE	VARIABLE VOLUME WITH DUCT MOUNTED HOT WATER COIL	VARIABLE VOLUME WITH DUCT MOUNTED HOT WATER COIL	VARIABLE VOLUME WITH DUCT MOUNTED HOT WATER COIL	VARIABLE VOLUME WITH DUCT MOUNTED HOT WATER COIL	VARIABLE VOLUME WITH DUCT MOUNTED HOT WATER COIL
TOTAL APD @ MAX. CFM	0.04"WG	0.10"WG	0.05"WG	0.01"WG	0.01"WG
VOLUME CONTROL DAMPER					
MAX. CFM	300	500	900	2000	3000
MIN. CFM	0	0	0	-	-
LEAKAGE RATE @ 2.0" S.P.	2.0%	2.0%	2.0%	2.0%	2.0%
PRESSURE INDEPENDENT CONTROLS	YES	YES	YES	YES	YES
INLET SIZE	5"φ	6"φ	8"φ	13"X10"φ	20"X10"φ

- REMARKS:
 1. TOTAL PRESSURE DROP INCLUDING HEATING COIL SHALL BE 0.20"wg. COILS TO BE MOUNTED IN DUCTWORK PER DETAIL. INTEGRAL COIL IN VAV BOX NOT ACCEPTABLE.
 2. BOX SHALL BE DOUBLE WALL WITH 1" THICK INSULATION.
 3. CONTROLLER SHALL BE BACNET COMPATIBLE.
 4. COILS SHALL BE DUCT MOUNTED WITH ACCESS PANELS ON EITHER SIDE. REFER TO DETAIL.
 5. PROVIDE CONTROLS ENCLOSURE FOR FIELD MOUNTED CONTROLS.

REHEAT COIL SCHEDULE					
MARK	RHC-5	RHC-6	RHC-8	RHC-12	RHC-16
CFM	300	500	900	2000	3000
EAT/LAT	55F/95F	55F/95F	55F/95F	55F/95F	55F/95F
EWT/LWT	180F/150F	180F/150F	180F/150F	180F/150F	180F/150F
GPM/WPD	0.9/7 FT	1.44/7 FT	2.6/7 FT	5.8/7 FT	8.64/7 FT
MBH	12.9	21.6	38.9	86.4	129.6
SERVICE	VAV-5	VAV-6	VAV-8	CAV-12	CAV-16
BRANCH PIPE SIZE	3/4"	3/4"	1"	1-1/4"	1-1/2"

LAB AIR VALVE SCHEDULE						
SYMBOL	MANUF. & MODEL	INLET DUCT SIZE	SERVICE	CFM	FLOW	PRESSURE DROP
LV-SA-1	PHOENIX CONTROL VALVE- ACCEL II	10"φ	WET LAB GENERAL SUPPLY	350-935	VARIABLE	0.6-3.0 IN.
LV-EA-1	PHOENIX CONTROL VALVE- ACCEL II	10"φ	WET LAB GENERAL EXHAUST	50-400	VARIABLE	0.6-3.0 IN.
LV-EA-2	PHOENIX CONTROL VALVE- ACCEL II	8"φ	WET LAB FUME HOOD	100-400	VARIABLE	0.6-3.0 IN.
LV-EA-3	PHOENIX CONTROL VALVE- ACCEL II	10"φ	WET LAB CANOPY HOOD	35-600	TWO POSITION	0.6-3.0 IN.

- REMARKS:
 1. ALL VALVES SHALL BE PRESSURE INDEPENDENT.
 2. LOW VOLTAGE ELECTRIC ACTUATORS.
 3. CONTRACTOR SHALL PROVIDE DUCT TRANSITIONS AS REQUIRED AND RECOMMENDED BY MANUFACTURER.
 4. MINIMUM AND MAXIMUM CFM'S FOR EACH INDIVIDUAL VALVE ARE NOTED ON THE DRAWINGS.
 5. FACTORY CALIBRATION AND COMMISSIONING REQUIRED.
 6. ALL POINTS TRANSMITTED TO BUILDING DIRECT DIGITAL CONTROLS SYSTEM. REFER TO SPECIFICATIONS.

HOOD SCHEDULE							
MARK	MANUFACTURER & MODEL	SERVICE	DESIGN CFM	OVERALL SIZE (L'xW'xH')	THROAT SIZE (L'xW')	S.P.	REMARKS
H-1	GREENHECK 60	CERAMICS LAB	300	48x24x24	8"X8"	0.15"	1,2,3,4,5
H-2	GREENHECK 60	WET LAB	600	72x24x24	(2) 8"X8"	0.15"	1,2,3,4,5,6

- REMARKS:
 1. GALVANIZED 18 GAGE 304 STAINLESS STEEL CONSTRUCTION.
 2. PROVIDE WITH ENCLOSURE PANELS, FILLER PANELS & SIDE SKIRTS.
 3. UL LISTED VAPOR PROOF LIGHT WITH PRE WIRED CONNECTIONS.
 4. INTERLOCK LIGHT WITH LAB VALVE SWITCH.
 5. MOUNT 6"-0" ABOVE FINISHED FLOOR.
 6. PROVIDE WITH TWO DUCT CONNECTIONS.

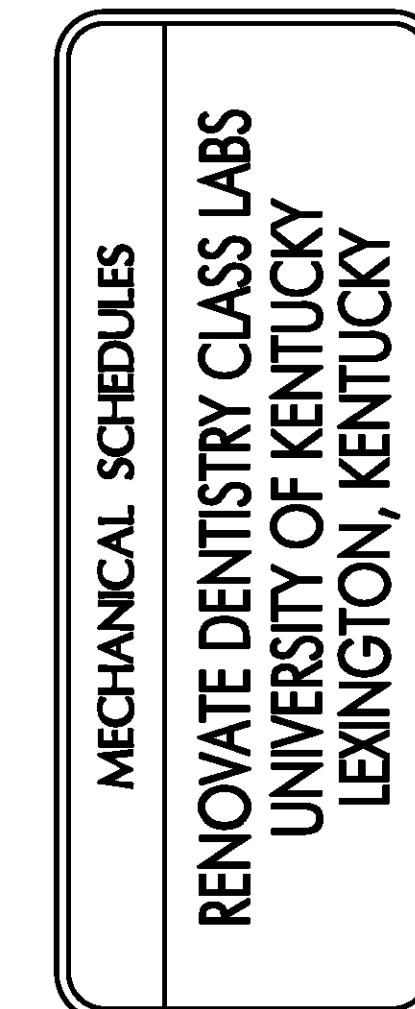
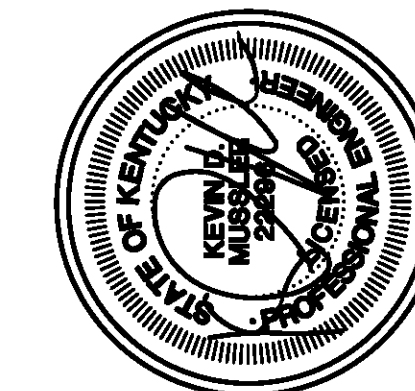
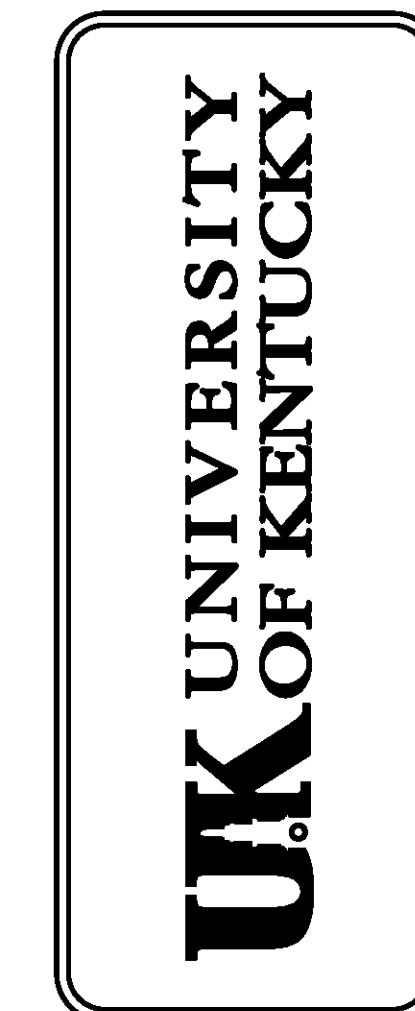
LOUVER SCHEDULE							
MARK	MANUF/MODEL	MATERIAL	SIZE (W' x H')	CFM	FREE AREA (SQ. FT.)	APD	REMARKS
L-1	RUSKIN ELF375 DX	ALUMINUM	194 x 18	1250	1.71	0.12	1,2,3

- REMARKS:
 1. PROVIDE WITH BIRDSCREEN.
 2. COLOR TO BE SELECTED BY ARCHITECT.
 3. WIDTH SIZE IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING WINDOW WIDTH AND MATCH LOUVER WIDTH DIMENSION TO WINDOW.



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RECORD DRAWING

12 DECEMBER 2012
UKY1206



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LAB EXHAUST FAN SCHEDULE																						
MARK	MANUF.	MODEL	TYPE	SERVICE	INLET CFM	BYPASS CFM	ENTRAINED CFM	SYSTEM CFM	EFFECTIVE STACK HEIGHT TO MPH WIND	NOZZLE SILENCER	ENERGY COIL	ENERGY COIL SIZE	ENERGY COIL APD	MIXING PLENUM	TOTAL STATIC PRESSURE	RPM	HP	VOLTS/#	DRIVE	DBA AT 10 FEET	WEIGHT	REMARKS
EF-D611A EF-D611B	STROBIC AIR CORP.	TQE SERIES	LAB HIGH VEL DILUTION FAN	SIMULATION LAB	3500	1156	4656	9312	36 FT	YES	NO	-	-	YES	0.25 IN.	1770	3	208/3	DIRECT	72	750 LBS	1-7

REMARKS

1. STATIC PRESSURE GIVEN IN SCHEDULE INCLUDES DUCT EXTERNAL STATIC PRESSURE. IT DOES NOT INCLUDE LOSSES THROUGH MIXING BOX/PLENUM, DISCHARGE NOZZLE, OUTLET SILENCER, ETC.
2. PROVIDE INSULATED ROOF CURB AND PLENUM. CURB AND PLENUM TO BE STRUCTURAL AS REQUIRED FOR FAN WIND LOADING.
3. AMCA SPARK RESISTANT CLASS C.
4. PROVIDE COMBINATION STARTER/DISCONNECT IN NEMA 3R CONTROL PANEL. SINGLE POINT POWER CONNECTION. PANEL TO HAVE DDC INTERFACE.
5. EFFECTIVE STACK HEIGHT DOES NOT INCLUDE MIXING PLENUM.
6. PROVIDE SPEED CONTROL FOR BALANCE PURPOSES.
7. ENTIRE FAN UNIT AND PLENUM SHALL BE FACTORY PAINTED CUSTOM COLOR. COLOR SELECTED BY ARCHITECT.

EF-D611A AND EF-D611B AIRFLOW SCHEMATIC
NO SCALE

HEAT EXCHANGER	
SYMBOL	HX-1/HX-2
MANUFACTURER & MODEL	B&G SU14 5-2
REMARKS	1,2,3
SHELL SIDE	
SYSTEM	STEAM
FLOW	4,755 PPH
ENTERING CONDITION	2 PSI STEAM
LEAVING CONDITION	---
PRESSURE DROP	3 FT. MAX.
HEAT EXCHANGE	4,592 MBH
TUBE SIDE	
SYSTEM	HW
FLOW	470 GPM
ENTERING CONDITION	180° WATER
LEAVING CONDITION	180° WATER
PRESSURE DROP	3 FT. MAX.
HEAT EXCHANGE	4,592 MBH

- REMARKS:**
1. PROVIDE PETES PLUGS ON ALL 4 PIPE CONNECTIONS.
 2. TOTAL SURFACE AREA OF HEAT TRANSFER SHALL NOT BE LESS THAN 101 SQ. FT.
 3. PROVIDE ASME PRESSURE VESSEL.

EXHAUST FAN SCHEDULE											
MARK	MANUF./MODEL	TYPE	CFM	ESP	DRIVE	SIZE	HP	VOLTS/#	SONES	WEIGHT (LB)	REMARKS
EF-D-1	GREENHECK CUBE - 240	ROOF MOUNTED CENTRIFUGAL	5070	1.0"	BELT	44"	1-1/2	208/3	15.2	175	1, 2, 3, 4
EF-D-3A	GREENHECK CUBE - 161HP	ROOF MOUNTED CENTRIFUGAL	1250	1.45"	BELT	30"	1/2	115/1	10.9	87	1, 2, 3, 4
EF-D-4	GREENHECK CUBE - 141	ROOF MOUNTED CENTRIFUGAL	1170	1.05"	BELT	30"	1/2	115/1	11.8	84	1, 2, 3, 4
EF-D-3B	GREENHECK CUBE - 161XP	ROOF MOUNTED CENTRIFUGAL	1050	1.45"	BELT	30"	3/4	115/1	11.6	210	1, 2, 3, 4
EF-D-8	GREENHECK BSQ - 160	INLINE CENTRIFUGAL	1250	0.30"	BELT	26"X26"X22"	1/4	115/1	5.4	210	1, 3, 4

- REMARKS:**
1. PROVIDE BIRDSCREEN.
 2. PROVIDE WITH CUSTOM ROOF CURB.
 3. PROVIDE NEC-RATED DISCONNECT.
 4. PROVIDE WITH BACKDRAFT DAMPER.

PUMPS											
MARK	MFR. & MODEL	SERVICE	TYPE	GPM	HEAD (FT)	% EFF.	RPM	HP	VOLT/#	DUPLICATES	REMARKS
HWP-1	B&G 1510 3BC	HEATING HOT WATER	BASE-MTD END SUCTION	470	65	79	1750	15	208/3	HWP-2	1,2,3
CWP-1	B&G 80 6X6X7	CHILLED WATER	INLINE	423	15	60	1150	3	208/3	-	1,2,3,4

- REMARKS:**
1. FLOW PERFORMANCE BASED ON WATER AS WORKING FLUID.
 2. PUMPS SHALL BE NON-OVERLOADING.
 3. FURNISH EACH WITH VARIABLE SPEED DRIVE AND NEC DISCONNECT.
 4. PROVIDE WITH 250 PSI WORKING PRESSURE RATING.

STEAM TRAPS													
TAG	LOCATION	MANUFACTURER	SERVICE	DESIGN LOAD	LOAD WITH SAFETY FACTOR	DIFFERENTIAL STEAM PRESSURE FOR SIZING	MAXIMUM INLET STEAM PRESSURE	SYSTEM BACK PRESSURE	CONNECTION TYPE	CONNECTION SIZE	MODEL	ORIFICE	REMARKS
T-1		ARMSTRONG INTERNATIONAL	LP DRIP TRAP	150 #/HR	450 #/HR	20 PSIG	20 PSIG	0 PSIG	NPT	3/4"	811	1/8"	1
T-2	HX-1	ARMSTRONG INTERNATIONAL	HEAT EXCHANGER	4868 #/HR	9736 #/HR	20 PSIG	20 PSIG	0 PSIG	NPT	2-1/2"	30LB	1-5/8"	-

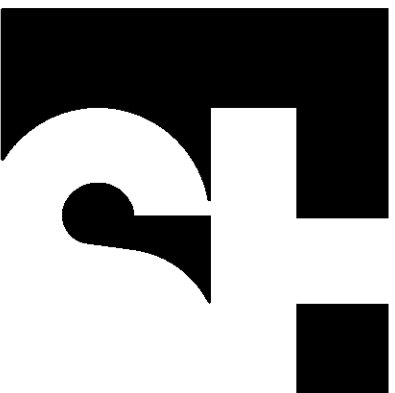
- REMARKS:**
1. PROVIDE INLET CHECK VALVE TO PROTECT TRAP PRIME.

AIR HANDLING UNIT SCHEDULE	
SYMBOL	AHU-D-1
MANUFACTURER/MODEL	TEMTROL
TYPE OF SYSTEM	VAV W/ FAN ARRAY
CONFIGURATION	BLOW-THRU
SERVICE	DENTAL COLLEGE
LOCATION	PENTHOUSE
NOM. SIZE LxWxH (IN.)	195x144x136
WEIGHT (lbs)	14000
SUPPLY AIR FAN	
SA CFM	50000
MIN. OUTSIDE AIR CFM	20%
# OF FANS - RPM	12 - 2092
T.S.P./E.S.P. (IN WG)	AS REQUIRED/2.5
MOTOR HP/BHP (PER FAN)	5/3.88
MAX. FAN ARRAY BHP	47
VOLTS/#	208/3
VAR. FREQ. DRIVE	CONTROL FAN ARRAY W/ 1-100% REDUNDANT
OPERATING FREQUENCY	71.7 Hz
RETURN AIR FAN	
RA CFM	75000
# OF FANS - RPM	12-1665
T.S.P./E.S.P. (IN WG)	AS REQUIRED/2.0
MOTOR HP/BHP PER FAN	5/3.3
MAX. FAN ARRAY BHP	39.5
VOLTS/#	208/3
VAR. FREQ. DRIVE	CONTROL FAN ARRAY W/ 1-100% REDUNDANT
OPERATING FREQUENCY	79
CHILLED WATER COIL	
OPERATION TYPE	NORMAL
TOTAL COOLING CAP. (MBH)	2120.5
SENSIBLE COOLING CAP. (MBH)	1428.1
EAT (DB/WB) (F) COOLING	80/67
LAT (DB/WB) (F) COOLING	53.1/52.5
EWT/LWT (F) COOLING	45/54
MAX. FACE VELOCITY (FPM)	480
MAX. AIR PRESSURE DROP (IN. WG.)	0.6
WATER FLOW RATE (GPM)	423
MAX. WATER PRESSURE DROP (FT)	12
COIL ROWS/NO. OF COILS	6/3
FIN SPACING (FINS/FT)	96
HOT WATER COIL- PRE-HEAT	
OPERATION TYPE	NORMAL
TOTAL HEATING CAP. (MBH)	3098.3
EAT (F) HEATING	35
LAT (F) HEATING	88.4
EWT/LWT (F) HEATING	180/160
MAX. FACE VELOCITY (FPM)	480
MAX. AIR PRESSURE DROP (IN. WG.)	0.2"
WATER FLOW RATE (GPM)	318
MAX. WATER PRESSURE DROP (FT)	10'
INTERNAL FACE & BYPASS	NO
COIL ROWS/NO. OF COILS	2/3
FIN SPACING (FINS/FT)	96
FILTER SECTION	
MODEL/TYPE	DISPOSABLE
EFFICIENCY/TEST METHOD	30%/ASHRAE 52-72
CFM	50000
MAX. VELOCITY (FPM)	455
SIZE (W" X H" X D")	132 X 120 - (5) 12X24 & (25) 24X24
RESISTANCE (CL./DIRT.)	0.11"/WG/1.00"/WG

- REMARKS:**
1. PROVIDE ACCESS DOORS TO ACCESS ALL SECTIONS OF AIR HANDLING UNITS.
 2. PROVIDE 3/4" DRAINS WITH CAPPED HOSE CONNECTION ON ALL COILS.
 3. PROVIDE 1/2" AIR VENTS ON ALL COILS.
 4. COILS SHALL BE 100% DRAINABLE.
 5. INDEPENDENTLY REMOVABLE COILS.
 6. PROVIDE MARINE LIGHTS AND CONVENIENCE OUTLETS AS INDICATED ON ELEVATIONS.
 7. PROVIDE REDUNDANT INTERLOCKED VFD'S.
 8. THE FOLLOWING SHALL BE INCLUDED IN SUPPLY AIR TSP CALCULATIONS: HEATING COIL, COOLING COIL, 30% PRE-FILTER, SA OPENING, AND CABINET.
 9. THE FOLLOWING SHALL BE INCLUDED IN RETURN AIR TSP CALCULATIONS: RA OPENING AND CABINET.
 10. PROVIDE SINGLE POINT CONNECTION.
 11. PROVIDE AIR FLOW STATION FOR SUPPLY AND RETURN FAN SECTIONS.
 12. REFER TO THE SOUND POWER SCHEDULE FOR MAXIMUM ALLOWABLE NOISE CRITERIA.

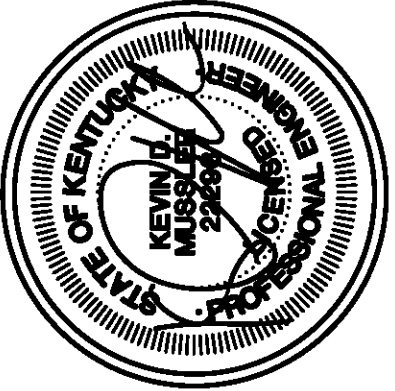
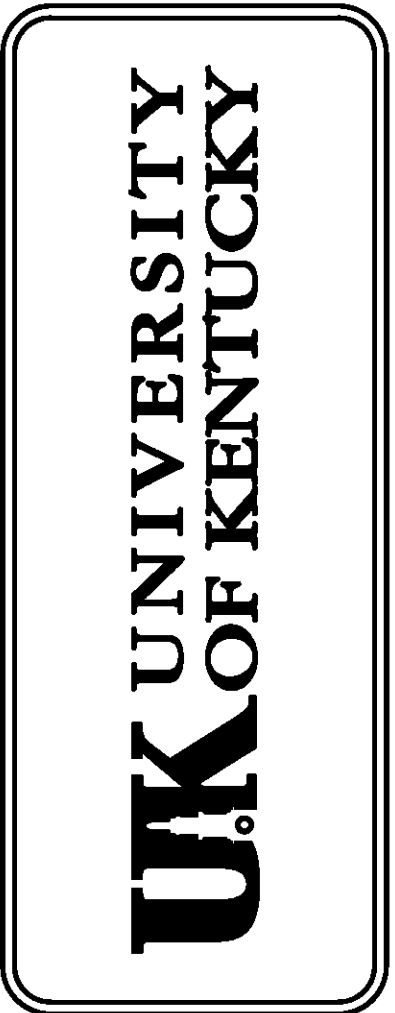
SOUND POWER SCHEDULE									
AHU FAN ARRAY		OCTAVE BAND (HERTZ) *							
		63	125	250	500	1K	2K	4K	8K
SUPPLY FAN	DISCHARGE	85	84	95	83	80	79	75	68
	INLET	99	95	92	94	87	86	85	77
RETURN FAN	DISCHARGE	80	82	90	75	75	73	68	58
	INLET	92	90	87	85	81	81	76	70

* DATA BASED ON AMCA 300-96 TEST METHOD.



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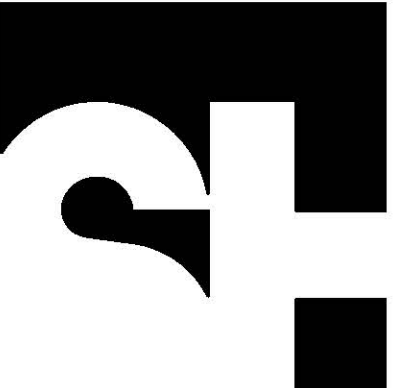
MECHANICAL SCHEDULES
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWING

12 DECEMBER 2012
UKY1206

M9.1

RECORD DRAWING

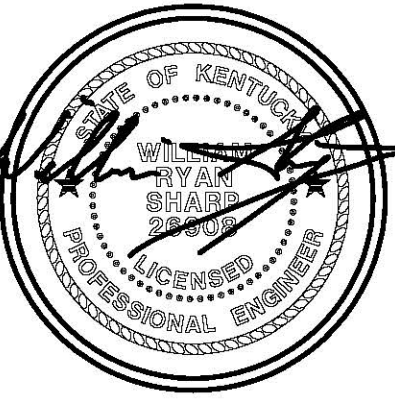
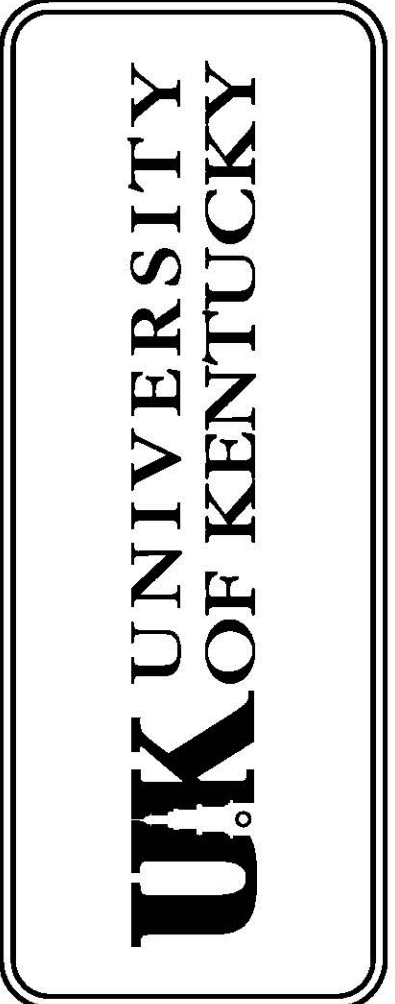


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ELECTRICAL LEGEND & GENERAL NOTES RENOVATE DENTISTRY CLASS LABS UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

RECORD DRAWINGS

12 DECEMBER 2012 UKY1206

E1.0

GENERAL NOTES (APPLICABLE TO ALL WORK AND DOCUMENTS)

- 1. EACH CONTRACTOR, PROPRIETOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND... 2. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED... 3. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON... 4. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE... 5. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE... 6. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT... 7. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS... 8. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS OR CEILING AS REQUIRED... 9. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY... 10. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER... 11. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR... 12. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLETELY MATCH SURFACE UNLESS OTHERWISE NOTED... 13. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY... 14. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK... 15. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASINGWORK DETAILS FOR LOCATION OF RECEPTACLES, UTILITY UTILITIES, ELECTRICAL DEVICES, ETC... 16. UNLESS OTHERWISE SPECIFIED OR INDICATED, INSTALL LIGHT FIXTURES, DIFFUSERS, REGISTER, GRILLES, SPRINKLER HEADS, SMOKE DETECTORS AND OTHER CEILING MOUNTED APPURTENANCES IN THE CEILING IN A SYMMETRICAL PATTERN, UNLESS SPECIFICALLY INDICATED OTHERWISE... 17. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'x2' CEILING TILE AND INSTALLED CENTERED ON 4" DIMENSION OF 2'x4" TILE AND ON CENTERLINE OR A QUARTER POINT ON 4" DIMENSION, AS INDICATED... 18. ANY VIBRATING COILS OR OTHER NOISE OR MOTION PRODUCING SYSTEMS SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER... 19. CHECK ALL THREE-PHASE MOTORS WITH 'D' ROTATION METER... 20. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING AND INSTALLING ANY EQUIPMENT... 21. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT SHOWN SHOWN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT... 22. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES CONTRACTORS, SUPPLIERS, INSTALLERS, ETC... 23. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE AFFIXING INSTALLATION... 24. WHERE FIRE RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE RATED, APPROVED SYSTEM BOARD ENCLOSURES ABOVE LIGHT FIXTURES, CEILING DEVICES, ETC. IN OR ON CEILING... 25. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL, OUTLETS, GAS OUTLETS, ETC WITH ALL CASINGWORK, MITTEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION... 26. LIGHT SWITCH: GENERAL PURPOSE... 27. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPACES... 28. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK... 29. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE FROM THE BUILDING STRUCTURE... 30. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE... 31. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT... 32. FLUSH OR RECESSED - TYPE FLOOR OUTLETS, AS INDICATED ON PLAN SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT... 33. AS APPLICABLE, REFER TO ARCHITECTURAL FINISHING PLANS AND FINISH SCHEDULES ON THESE DRAWINGS FOR SCHEDULING OF WORK... 34. WHERE EXIT LIGHTS ARE CONNECTED TO EMERGENCY CIRCUITS WITH PHOTO-ELECTRIC CONTROL, AN UNWITTING LINE SHALL BE PULLED IN TO MAINTAIN THEIR OPERATION REGARDLESS OF SWITCH POSITION... 35. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THIS WORK... 36. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY... 37. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING... 38. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CENTERED TO AN UNWITTING LINE... 39. ALL LIGHTING FIXTURE LENSES, PARABOLIC LENSES, DOWNLIGHTING ALUM. CONES AND PARABOLIC LENSES SHALL BE HANDLED WITH COTTON GLOVES... 40. REFER TO ARCHITECTURAL DETAILS AS APPLICABLE FOR RECESSED SLOTTED FLUORESCENT FIXTURES... 41. WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF A PARTY WALL... 42. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES... 43. WHERE WORK IS REQUIRED ABOVE INSTALLED EXISTING CEILING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING CEILING AND GIRD MEMBERS... 44. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED... 45. ALL CONTRACTORS WISHING TO VISIT SITE ARE TO CONTACT HOSPITAL ENGINEER AT LEAST 24 HOURS FROM... 46. DO NOT SCALE FROM DRAWINGS, AS PRINTING DETECTS SCALE... 47. ALL CONDUIT, DEVICE, EQUIPMENT, ETC SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF ANY CEILING... 48. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH UK CAMPUS CONSTRUCTION STANDARDS.

BACKBOX SCHEDULE

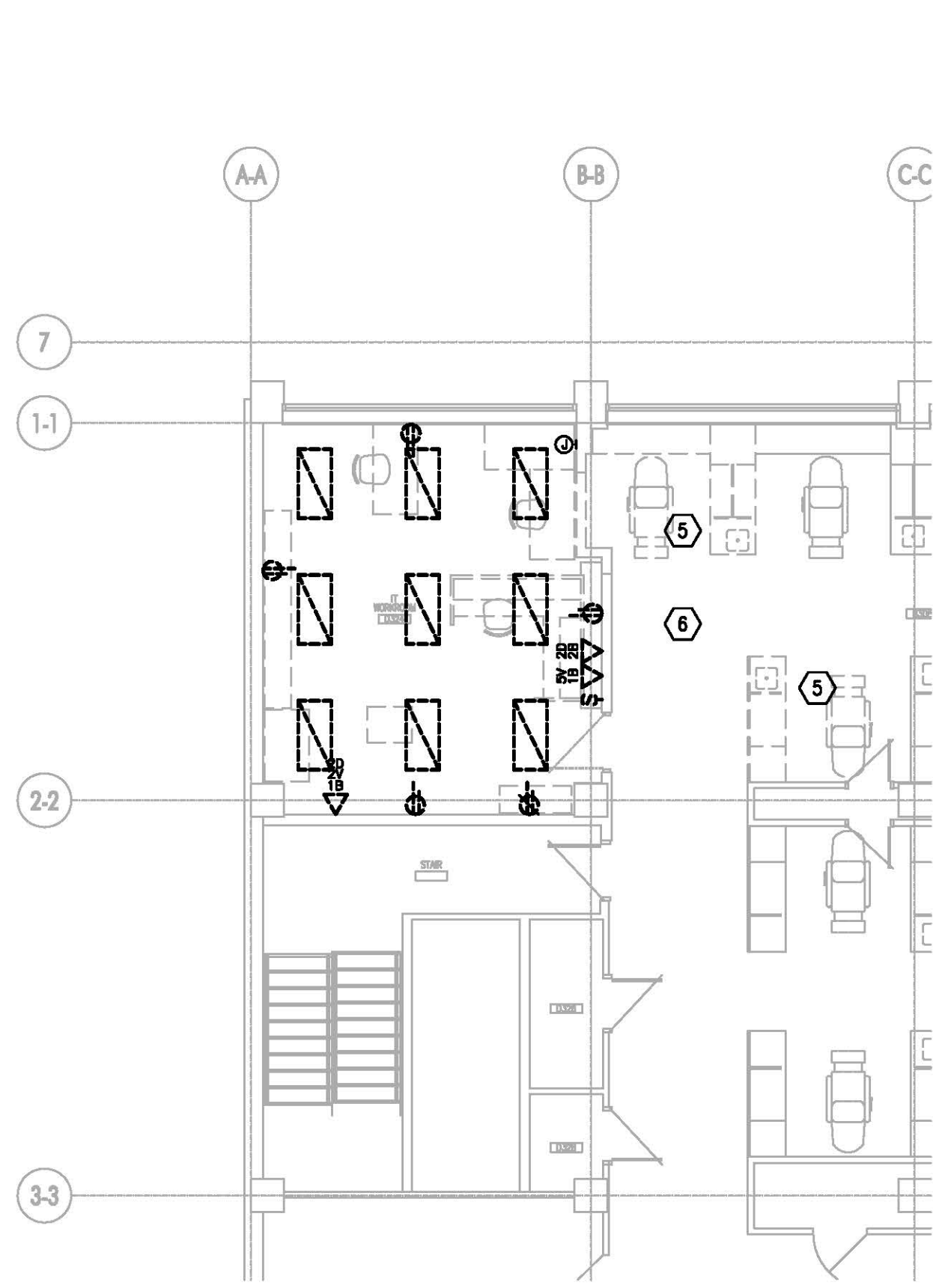
Table with 2 columns: INDICATING NO., SIZE REQUIRED. Rows include 1G, 1G-A, 2G, 2G-A, 3G, 4G, and V.

Main electrical schedule table with columns: SYSTEM, ITEM, DEVICE MODEL & REFER TO SPEC. IF NONE LISTED, BACKBOX COVER IF APPLICABLE, MOUNTING HEIGHT, DRAWING SYMBOL.

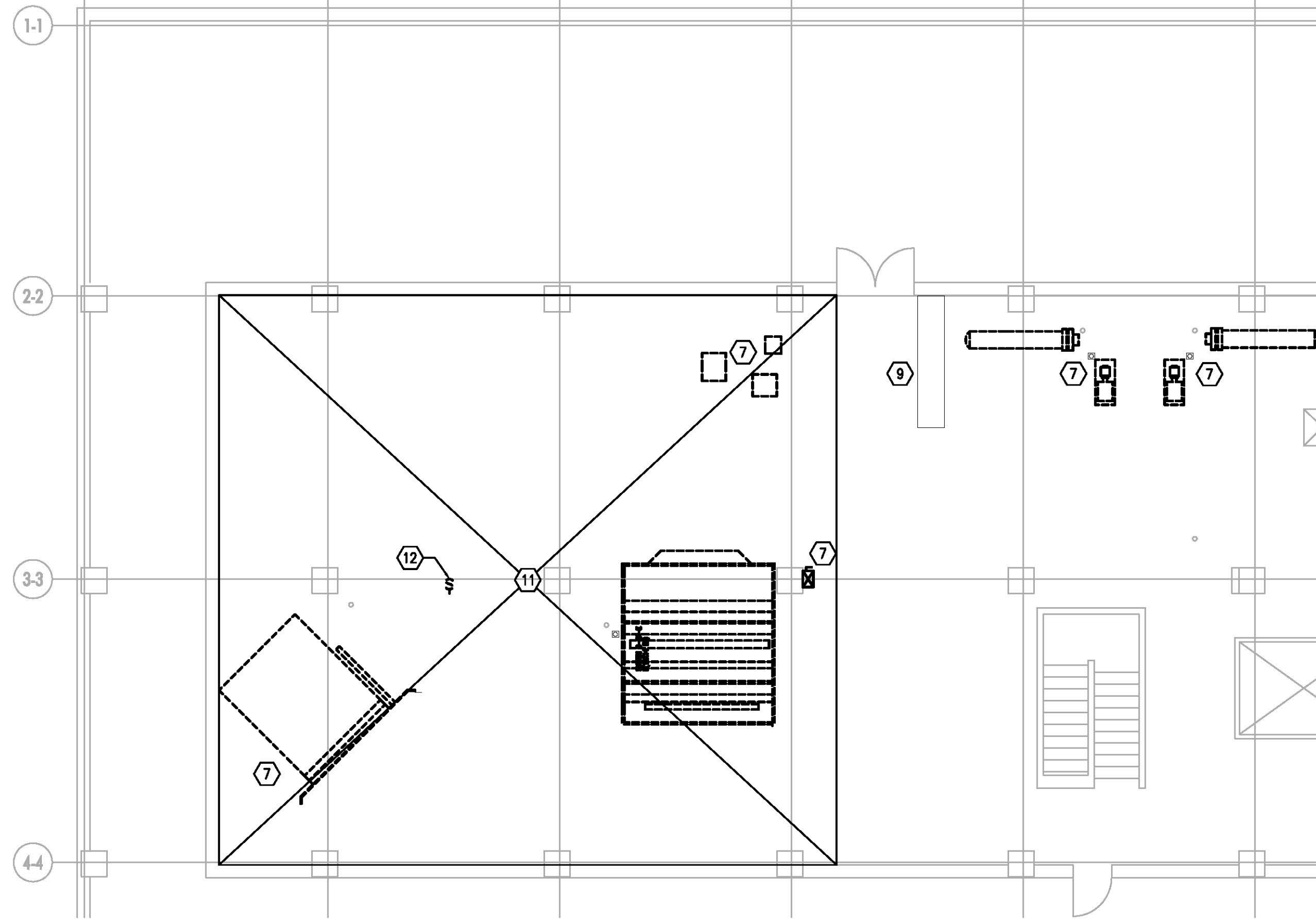
Continuation of main electrical schedule table, including sections for PACING, SECURITY, FIRE ALARM, and DATA/VOICE/VIDEO.

Continuation of main electrical schedule table, including sections for DATA/VOICE/VIDEO and various outlet types.

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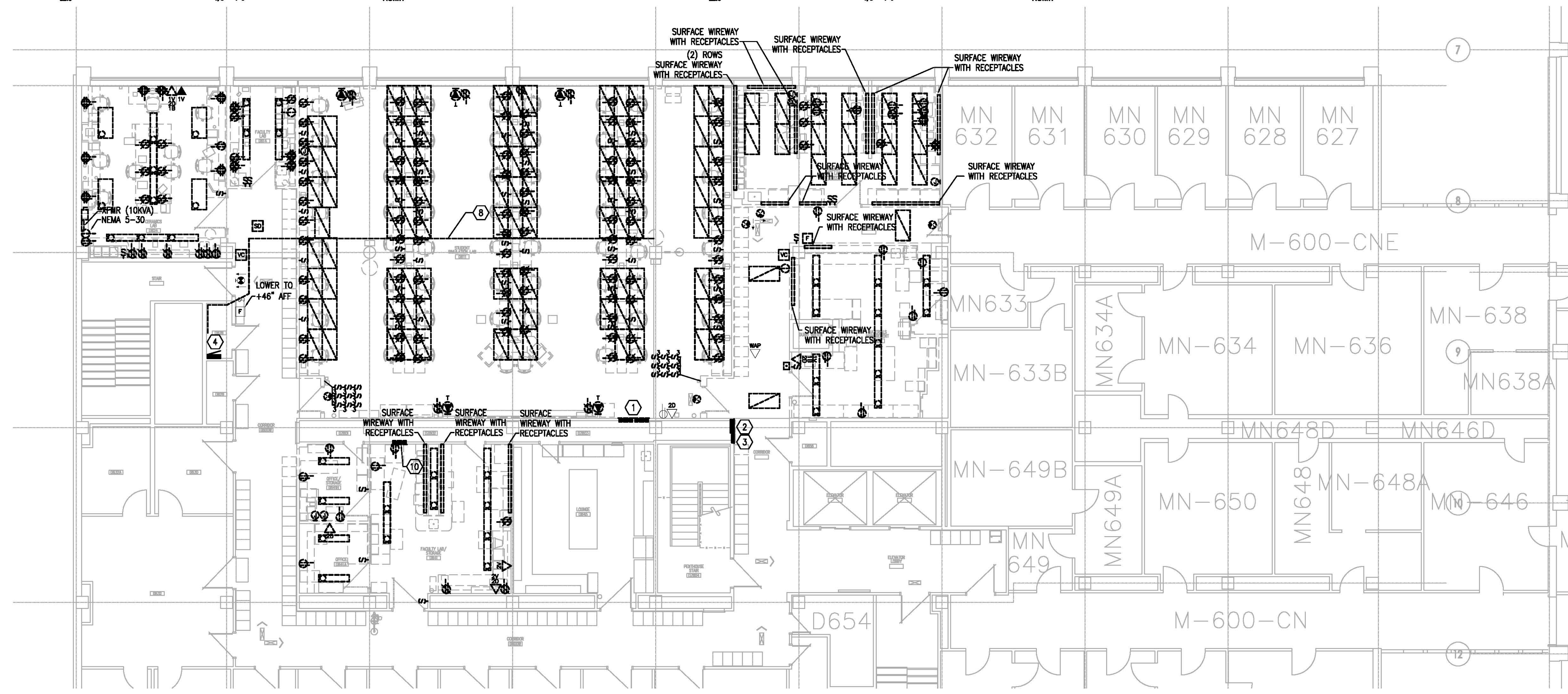
02 PARTIAL THIRD FLOOR ELECTRICAL DEMOLITION PLAN
 E2.0 1/8" = 1'-0" NORTH



03 PARTIAL PENTHOUSE ELECTRICAL DEMOLITION PLAN
 E2.0 1/8" = 1'-0" NORTH

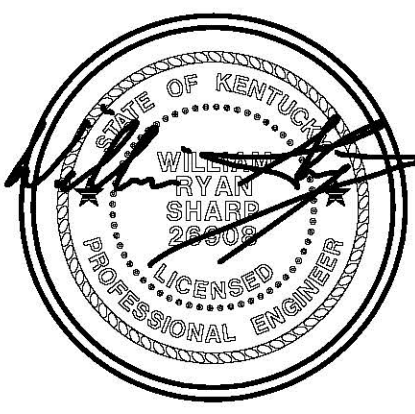
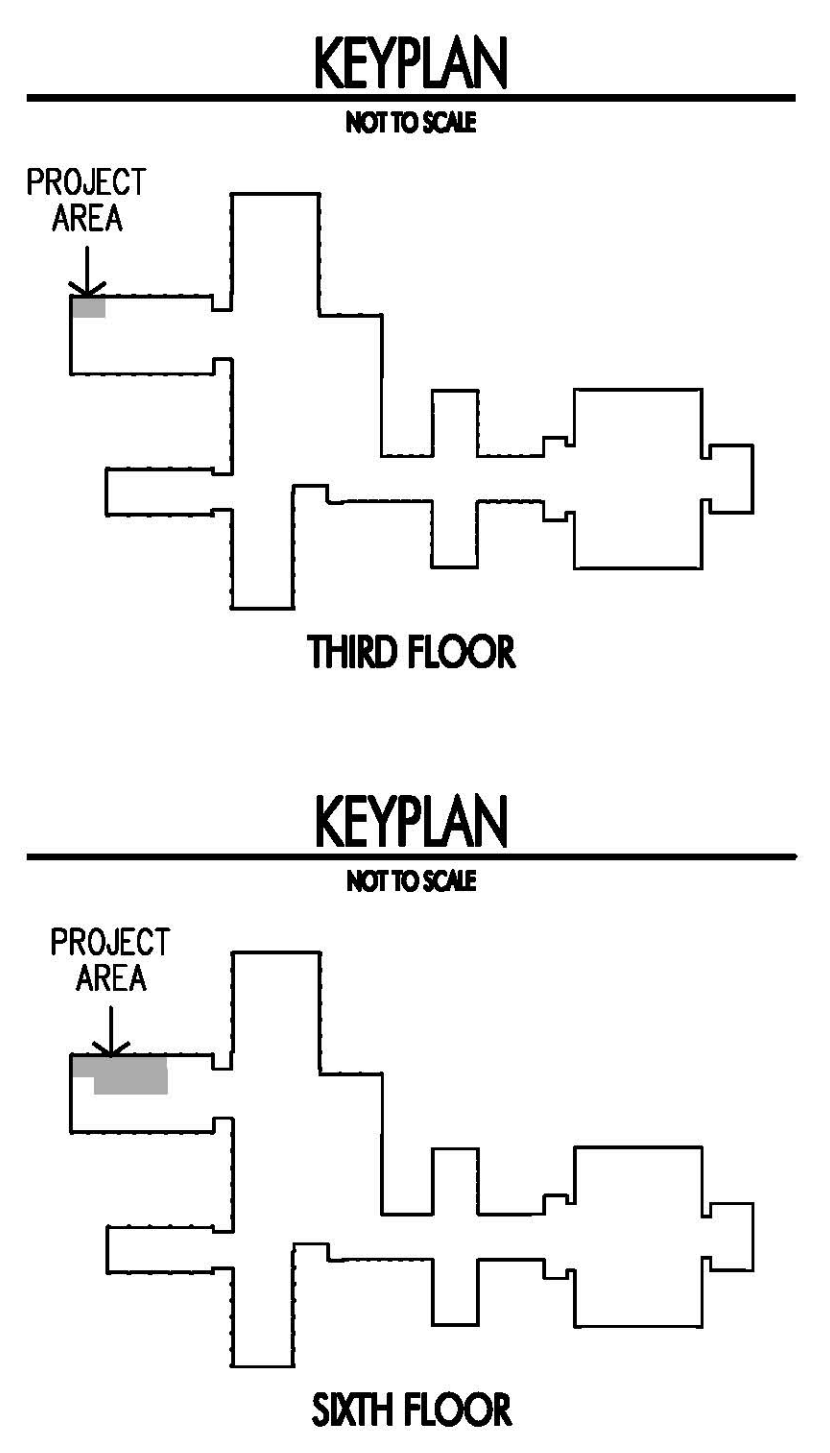
- TAGGED NOTES:**
- EXISTING PANEL 602B - TWO SECTION PANEL WITH 150 AMP MAIN BREAKER 208Y/120, 3 PHASE, 4 WIRE. EACH SECTION HAS 30 POLES FOR TOTAL OF 60 CIRCUITS. PANEL TO BE REMOVED AND ANY CIRCUITS TO REMAIN ARE TO BE FED FROM NEW TWO SECTION PANEL 602B. SEE ELECTRICAL POWER PLAN FOR PANEL LOCATION. PATCH AND PAINT WALL AS NEEDED.
 - EXISTING PANEL 602 - 200 AMP MAIN BREAKER 208Y/120, 3 PHASE, 4 WIRE. 24 POLES. PANEL TO BE REMOVED AND REPLACED WITH NEW. ANY CIRCUITS TO REMAIN ARE TO BE FED FROM NEW PANEL 602. NEW PANEL TO HAVE 42 POLES. REWORK WALL AS NEEDED TO REPLACE EXISTING PANEL WITH NEW PANEL OF DIFFERENT DIMENSIONS.
 - EXISTING PANEL 602A - 60 AMP MAIN LUG PANEL 208Y/120, 3 PHASE, 4 WIRE. 24 POLES. PANEL TO BE REMOVED AND ANY CIRCUITS TO REMAIN ARE TO BE FED FROM NEW PANEL 602. PATCH AND PAINT WALL AS NEEDED.
 - EXISTING PANEL 601 - 200 AMP MAIN BREAKER 208Y/120, 3 PHASE, 4 WIRE. 42 POLES. PANEL TO BE REMOVED AND REPLACED WITH NEW. PANEL IS SURFACE MOUNTED AT LOCATION SHOWN. ANY CIRCUITS TO REMAIN ARE TO BE FED FROM NEW PANEL 601.
 - CONTRACTOR TO REMOVE ELECTRICAL CONNECTIONS TO DENTAL STATION SHOWN.
 - REMOVE RECESSED LIGHTING FIXTURES IN THE AREA OF RENOVATION WHILE MAINTAINING EXISTING LIGHTING CIRCUIT.
 - REMOVE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT TO BE DEMOLISHED.
 - EXISTING 3" CONDUIT TO BE REMOVED PRIOR TO ENTERING ROOM D611 AND REROUTED TO PENTHOUSE EQUIPMENT. SEE E4.0 FOR CONDUIT INTERCEPT AND SPLICE POINT.
 - EXISTING MOTOR CONTROL CENTER (MCC) TO REMAIN. CONTRACTOR IS TO REMOVE EXISTING CONDUIT FEED IN ROOM D611 AND REROUTE CONDUIT TO ENTER PENTHOUSE OUTSIDE ROOM D611. REROUTE SPLICED FEEDER IN PENTHOUSE ROOF AND FEED MCC FROM ABOVE. CONTRACTOR TO TAKE ALL PRECAUTIONS TO ENSURE NEW FEEDER WILL ACCOMMODATE EXISTING SWITCH GEAR INCLUDING A NEW LUG KIT ON STANDBY IF THE EXISTING LUGS ARE UNABLE TO BE TORQUED AGAIN ONCE REMOVED.
 - EXISTING 12 POLE PANEL TO BE REMOVED. PATCH AND PAINT WALL AS NEEDED. ANY EXISTING CIRCUITS TO REMAIN TO BE FED FROM PANEL 601B.
 - CONTRACTOR TO REWORK EXISTING LIGHTING IN AREA SHOWN AS NEEDED TO ACCOMMODATE MECHANICAL WORK.
 - EXISTING LIGHTING CONTROL SWITCH AND CONTROL WIRING TO BE REMOVED AND RELOCATED.

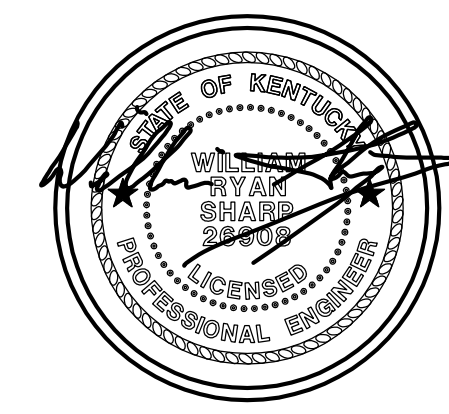
- GENERAL DEMOLITION NOTES:**
- HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
 - THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPED DIRECTORIES FOR ALL PANELS AFFECTED.
 - LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HERE-ON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
 - REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED, WHETHER INDICATED OR NOT (U.O.N.).
 - COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
 - CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH MUST REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.
 - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW. FIELD VERIFY EXACT REQUIREMENTS.
 - ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.



01 PARTIAL SIXTH FLOOR ELECTRICAL DEMOLITION PLAN
 E2.0 1/8" = 1'-0" NORTH

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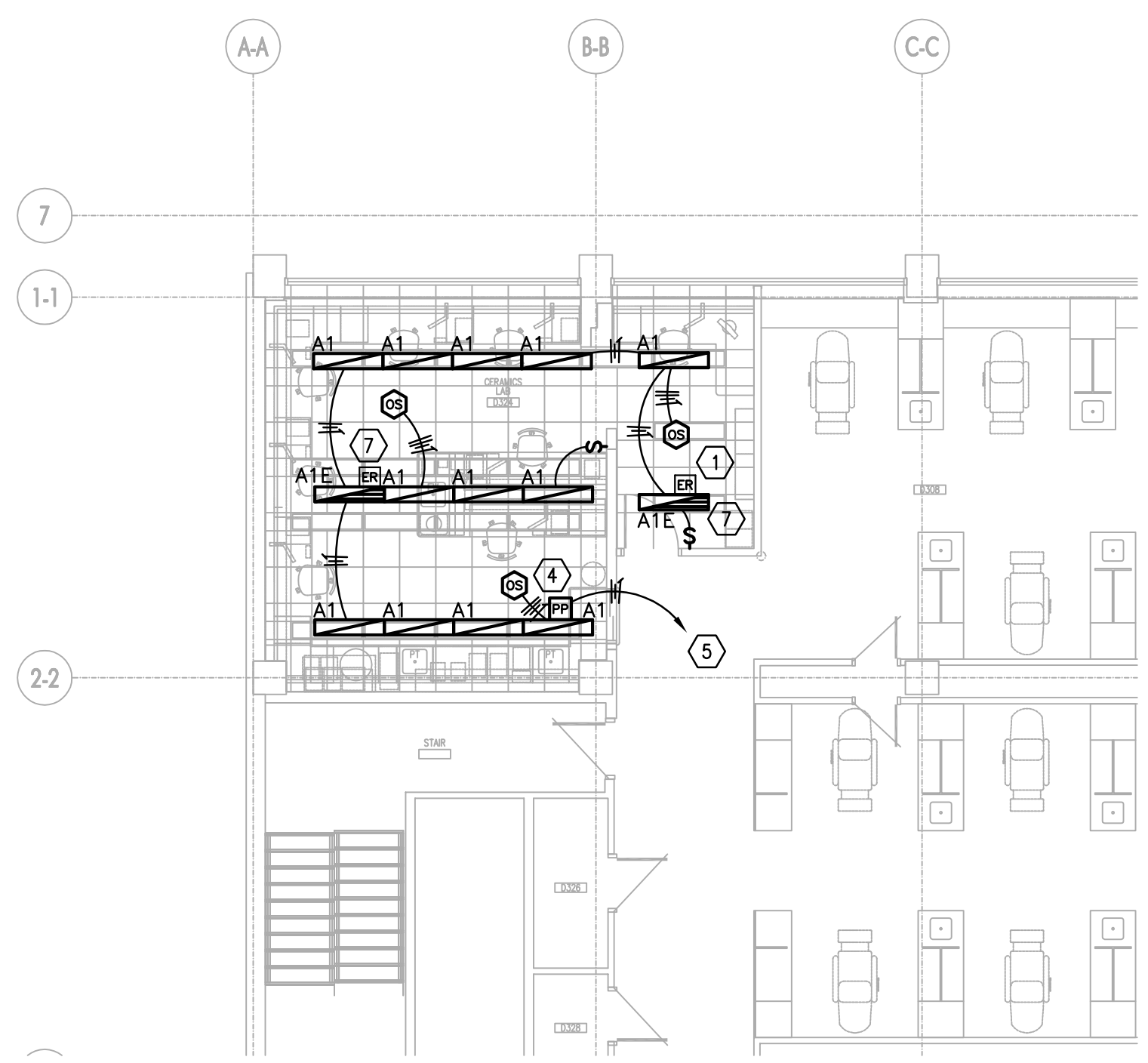


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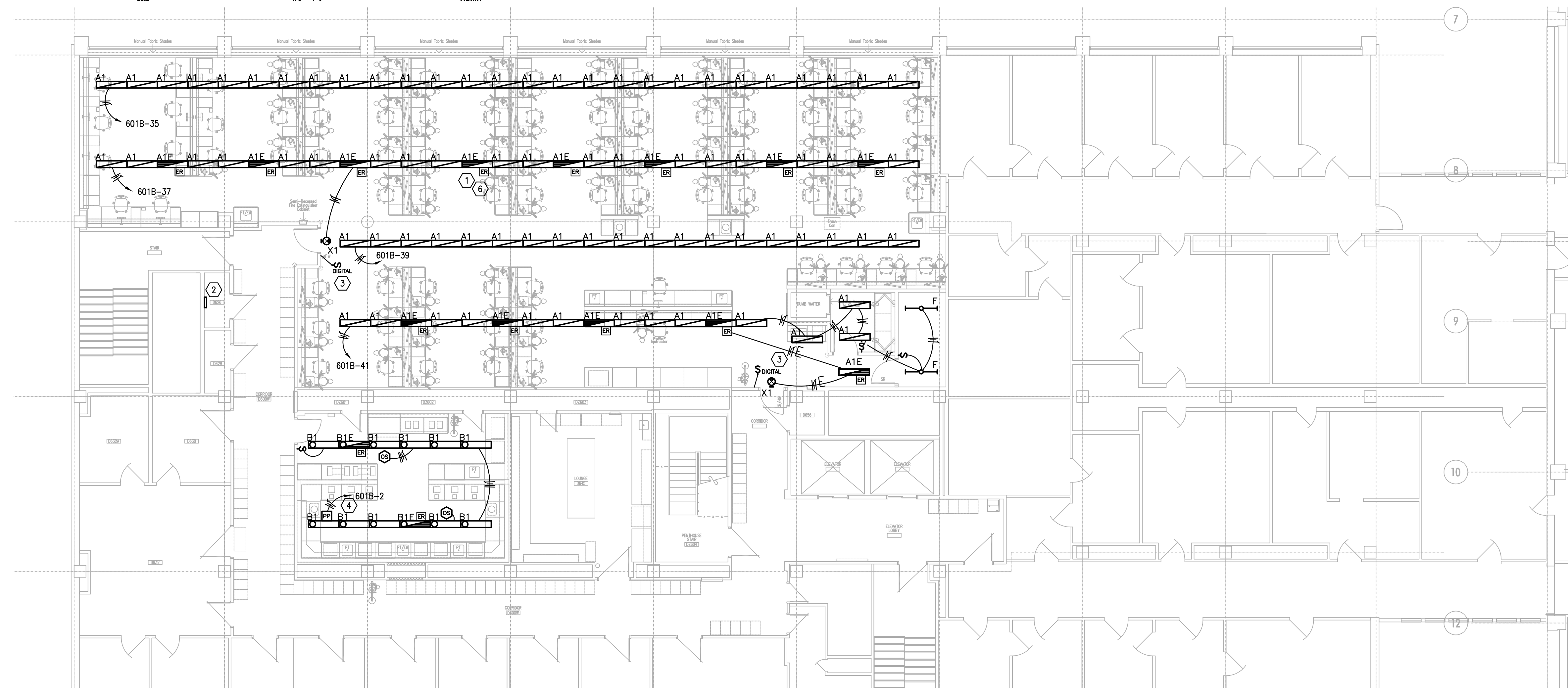
- INDIVIDUAL EMERGENCY RELAYS ARE FOR ILLUSTRATION PURPOSES ONLY. A TYPICAL EMERGENCY RELAY IS RATED FOR 15 AMPS AT MINIMUM. AN INDIVIDUAL EMERGENCY RELAY IS NOT REQUIRED AT EACH FIXTURE UNLESS SPECIFICALLY RECOMMENDED BY THE PRODUCT MANUFACTURER. (TYPICAL)
- PROVIDE EIGHT (8) LIGHTING RELAY CABINET WITH NETWORK INTERFACE FOR LIGHTING CONTROLS. NETWORK COMMUNICATION TO BE VIA BACNET OVER IP. AND INTERFACE TO UNIVERSITY OF KENTUCKY'S TRIDUON CONTROL SYSTEM FOR MONITORING AND CONTROL OF LIGHT STATUS AND CONTROL VIA TIME SCHEDULE WITH LOCAL SWITCH OVERRIDE. LIGHTING CONTROL TO BE COPPER LITE KEEPER 8, LUTRON ECOSYSTEM, OR WATSTOPPER LUM SERIES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING RACEWAY FOR DATA CABLE (CABLE BY OTHERS) AND CABINET FOR CONTROLLER.
- FOUR (4) ZONE LIGHTING CONTROL SWITCH. PROVIDE LOCAL CONTROL OF EACH LIGHTING CIRCUIT WITHIN D611 VIA SINGLE WALL SWITCH LOCATION. SWITCH TO ALSO PROVIDE LOCAL OVERRIDE OF AUTOMATIC LIGHTING CONTROLS. BUTTON LABELS TO BE DETERMINED BY OWNER VIA SHOP DRAWINGS. PATCH AND PAINT EXISTING WALL AS NEEDED.
- PROVIDE POWER PACK WITH OCCUPANCY SENSOR CONTROLS AND LOCAL SWITCH OVERRIDE.
- CONTRACTOR TO HOMERUN LIGHTING CIRCUIT TO EXISTING PANEL 301B IN ROOM D326. PROVIDE SINGLE POLE, 20 AMP CIRCUIT FROM AVAILABLE SPARE CIRCUITS IN EXISTING PANELBOARD.
- CONNECT EMERGENCY LIGHTING FIXTURES TO LIGHTING PANEL "PE" AT MCC-1-E LOCATED IN THE PENTHOUSE ABOVE. CONTRACTOR MAY REUSE EXISTING EMERGENCY CIRCUIT THAT CURRENTLY SERVES THE EXISTING DENTAL LAB IF THE SUM OF THE NEW AND EXISTING TO REMAIN LOAD ON THE CIRCUIT DOES NOT EXCEED 1,500 VA. IF THERE IS MORE THAN 1,500 VA ON THE TEST OF THE EXISTING CIRCUIT THEN THE CONTRACTOR SHALL PROVIDE (AT NO ADDITIONAL COST TO THE OWNER) A NEW 20 AMP, SINGLE POLE CIRCUIT FROM PANEL "PE" FOR THE NEW EMERGENCY FIXTURES SHOWN.
- CONNECT EMERGENCY LIGHTING FIXTURES TO EXISTING EGRESS CIRCUIT IN D306. CIRCUIT IS FED FROM PANEL "E2" ON THE SECOND FLOOR.

LIGHT FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MODEL	LAMPS	BALLAST	VOLTAGE	HEIGHT	NOTES	
A1	ULTRA SHALLOW RECESSED 1X4 TROFFER. FIXTURE TO BE NO MORE THAN 2" DEEP. FIXTURE TO HAVE HIGH REFLECTANCE WHITE POWDER COAT PAINTED REFLECTOR. FIXTURE TO MOUNT IN CEILING GRID. PROVIDE MICRO-GRID SHIELDING. LINEAR PRISMATIC CLEAR ACRYLIC LENS WITH WHITE INTERNAL BLADED MICRO BAFFLE. HIGH EFFICIENCY Y ELECTRONIC BALLAST.	COOPER R1-WB-2N5-1C-UNV-14 COLUMBIA EQUAL LITHONIA EQUAL DAYBRITE EQUAL	(2) 28W T5 41K	GEB10IS - PREMIUM EFFICIENCY	MVOLT	CEIL.	1	
A1E	SAME AS A1 EXCEPT CONNECTED TO EMERGENCY CIRCUIT.						1.2	
B1	SUSPENDED DIRECT/INDIRECT 1X4 (CONTRACTOR MAY USE 8' LENGTH PROVIDED EMERGENCY LIGHTING OPERATION IS INCLUDED). HOUSING AS ONE PIECE DIE-FORMED COLD ROLLED STEEL WITH STRAIGHT MECHANICAL END CAPS. WHITE ALUMINUM BAFFLE WITH PERFORATED BLADES. REFLECTOR PAINTED WITH HIGH REFLECTANCE WHITE POWDER COAT FINISH. HIGH EFFICIENCY ELECTRONIC BALLAST. CONTRACTOR TO VERIFY MOUNTING HEIGHT WITH ARCHITECT. AIRCRAFT CABLE MOUNT.	COOPER I2-W-F-3N5-1C-UNVAC COLUMBIA EQUAL LITHONIA EQUAL DAYBRITE EQUAL	(3) 28W T5 41K	GEB10IS - PREMIUM EFFICIENCY	MVOLT	VERIFY WITH ARCH.	1	
B1E	SAME AS B1 EXCEPT CONNECTED TO EMERGENCY CIRCUIT.						1.2	
F	12" WIDE 48" LONG 4-1/4" HIGH INDUSTRIAL FLUORESCENT. PROVIDE CAGE GUARD AND LAMP TUBES WITH FIXTURE.	LITHONIA EJS SERIES COOPER EQUAL LIGHTOLIER EQUAL	(2) 28W T5 41K	GEB10IS - PREMIUM EFFICIENCY	MVOLT	12" BELOW CEILING	1	
X1	SINGLE FACE DIE-CAST ALUMINUM EXIT SIGN. PRECISION-MOLDED, DIE CAST ALUMINUM HOUSING. LED LAMPS MOUNTED ON PRINTED CIRCUIT BOARD, LOW ENERGY CONSUMPTION, NICKEL CADMIUM BATTERY DELIVERS 90 MINUTES CAPACITY TO LAMP. PROVIDE DIRECTIONAL INDICATORS AS REQUIRED.	LITHONIA LE SERIES SURELITES EQUIVALENT APPROVED EQUIVALENT	LED		120	CEIL.	2	
X2	DOUBLE FACE DIE-CAST ALUMINUM EXIT SIGN. PRECISION-MOLDED, DIE CAST ALUMINUM HOUSING. LED LAMPS MOUNTED ON PRINTED CIRCUIT BOARD, LOW ENERGY CONSUMPTION, NICKEL CADMIUM BATTERY DELIVERS 90 MINUTES CAPACITY TO LAMP. PROVIDE DIRECTIONAL INDICATORS AS REQUIRED.	LITHONIA LE SERIES SURELITES EQUIVALENT APPROVED EQUIVALENT	LED		120	CEIL.	2	

NOTES:
1. LAMP AND BALLAST COMBINATION TO HAVE FIVE YEAR WARRANTY FROM THE FIXTURE MANUFACTURER WITH ORIGINAL BROCHURES.
2. FIXTURE TO BE CIRCUITED TO NEAREST UNSWITCHED EMERGENCY POWER CIRCUIT.
* ALL FIXTURES SHALL BE PRE-LAMPED FROM THE MANUFACTURER

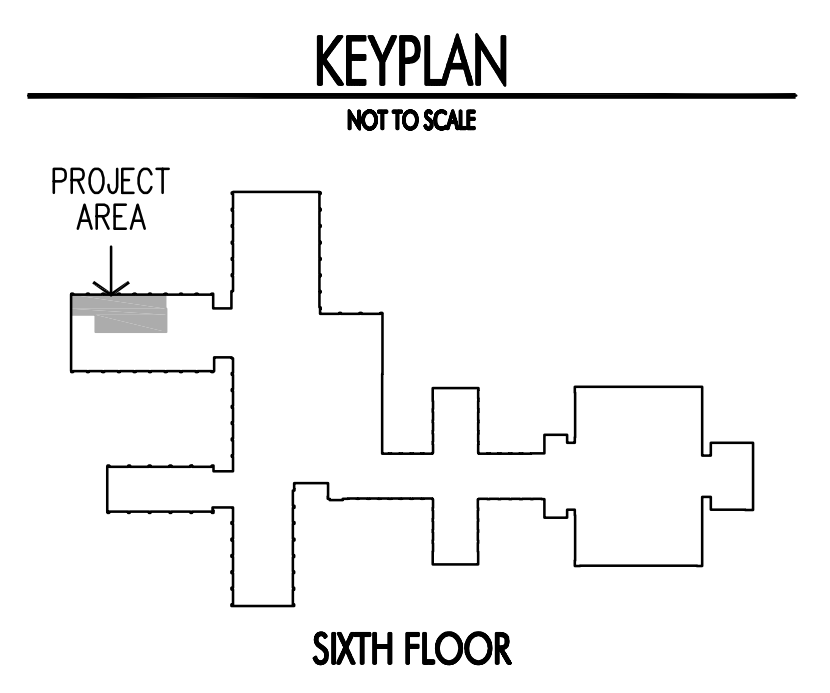
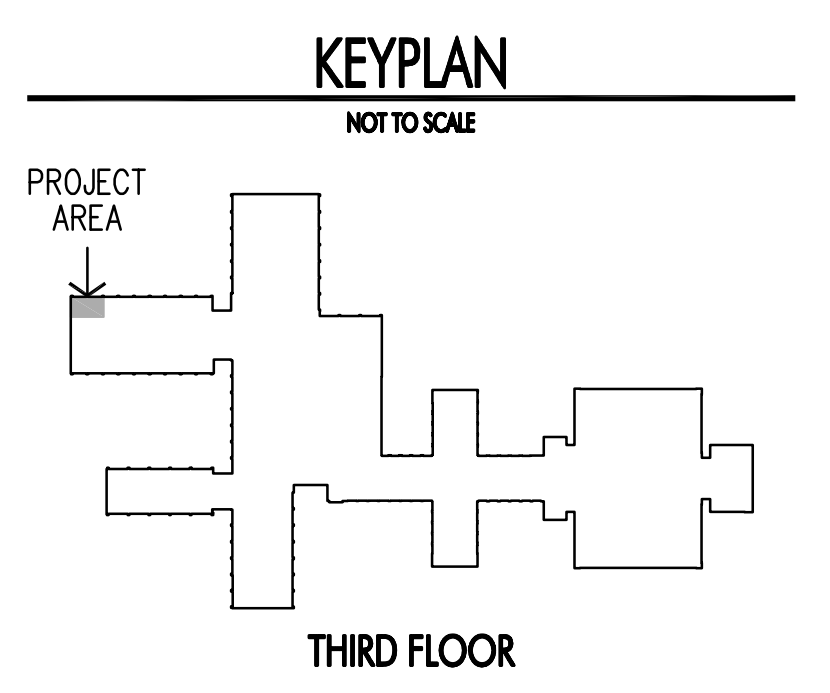


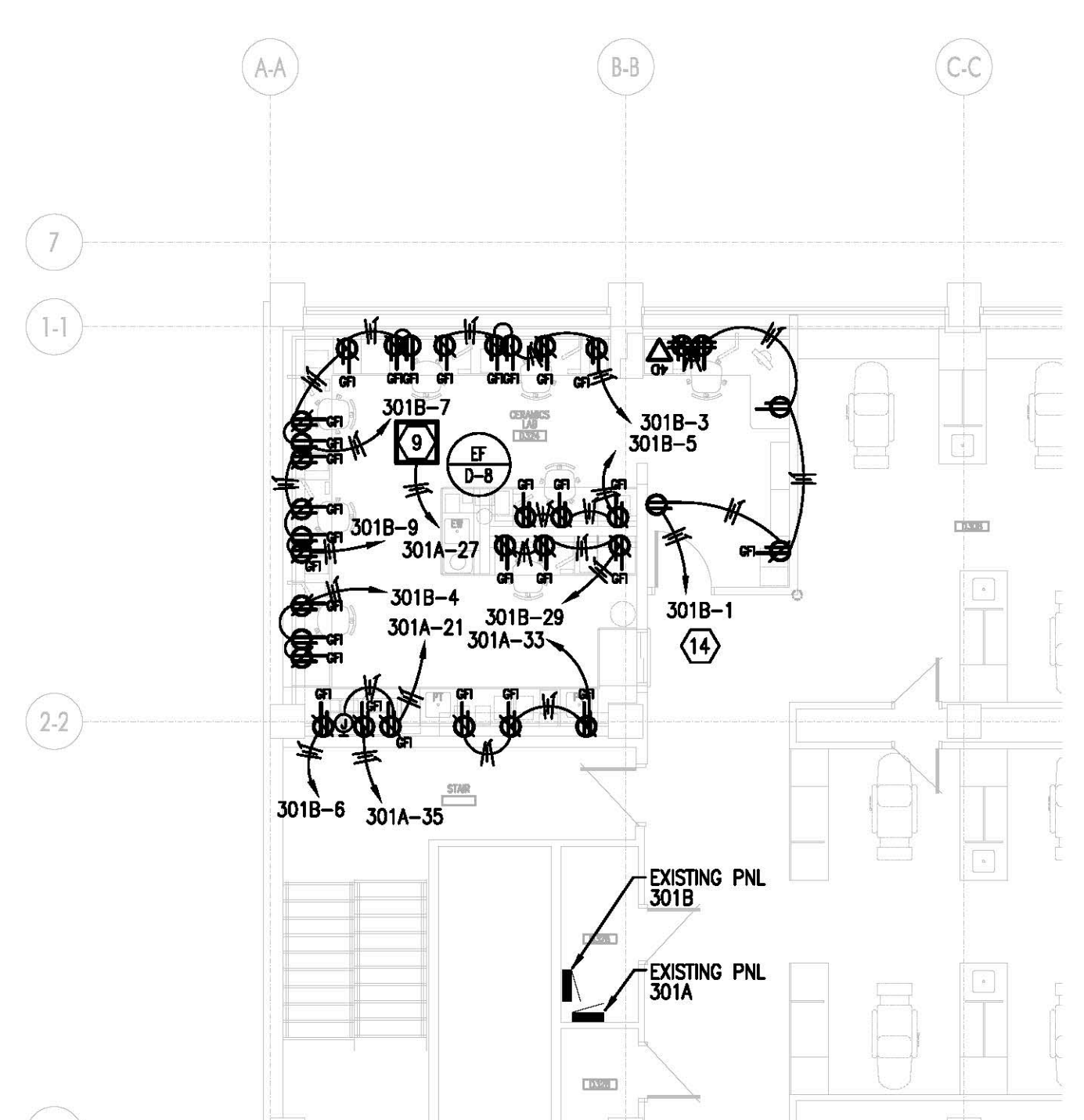
02
PARTIAL THIRD FLOOR LIGHTING DESIGN
E3.0 1/8" = 1'-0" NORTH



01
PARTIAL SIXTH FLOOR LIGHTING DESIGN
E3.0 1/8" = 1'-0" NORTH

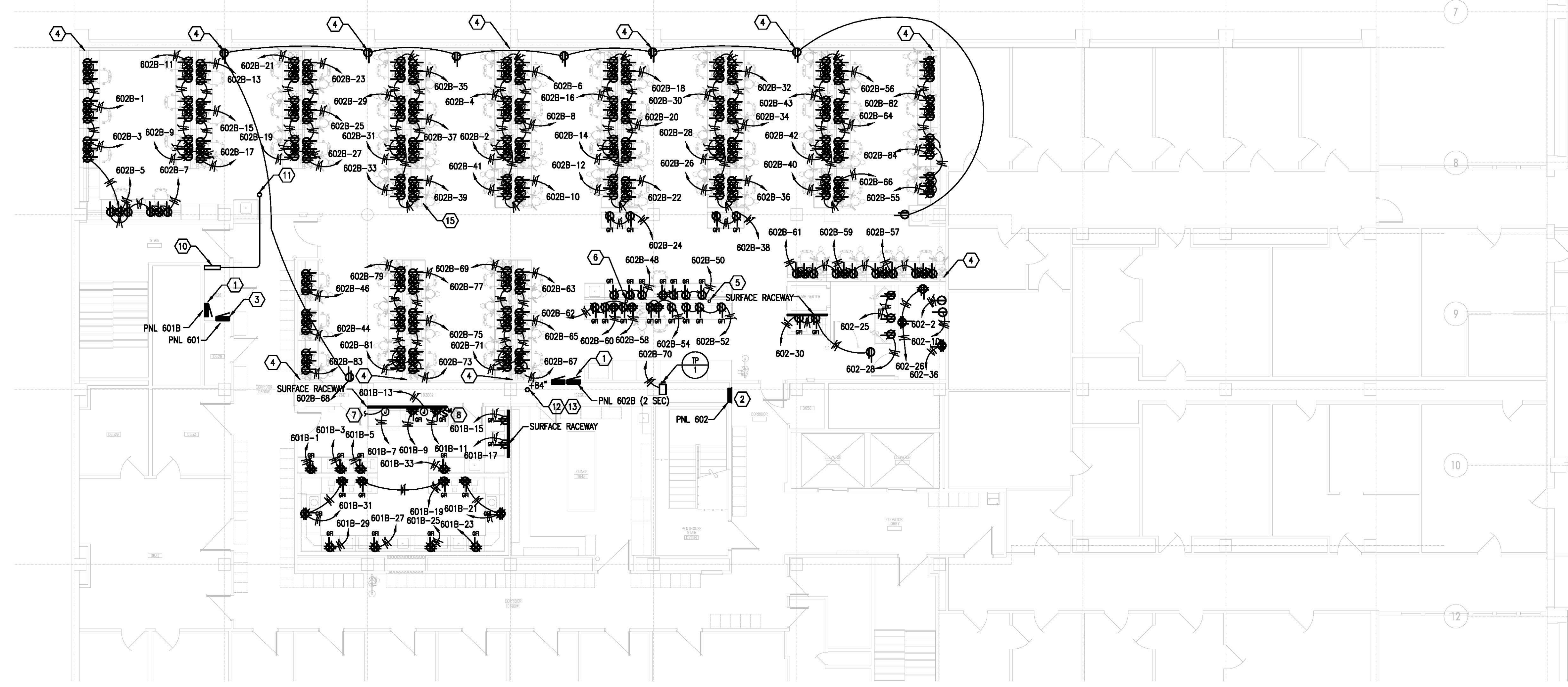
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02
PARTIAL THIRD FLOOR
POWER DESIGN
E4.0 1/8" = 1'-0" NORTH

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01
PARTIAL SIXTH FLOOR
POWER DESIGN
E4.0 1/8" = 1'-0" NORTH

GENERAL NOTES

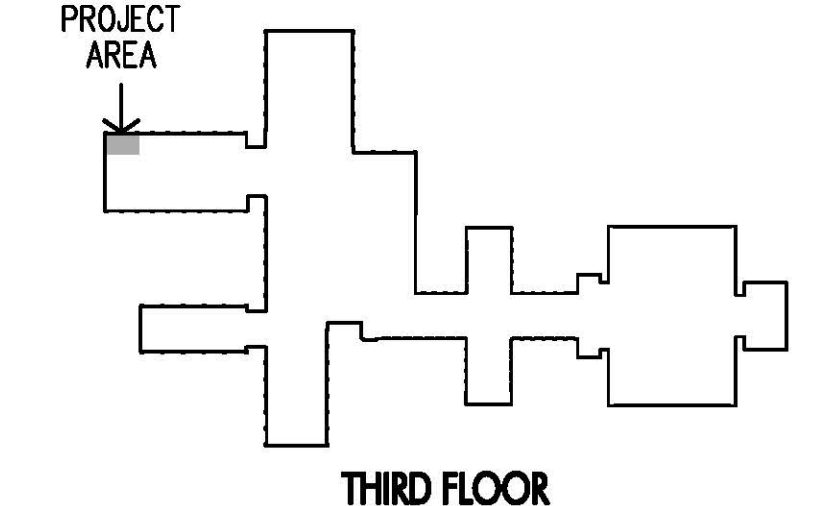
- A. ALL POWER DEVICES AND FEEDERS SHALL BE COORDINATED WITH OTHER TRADES AND ARCHITECT'S CASEWORK ELEVATIONS.
- B. A SIMULATION STATION MOCK-UP IS REQUIRED AS PART OF THE PROJECT. MOCK-UP IS TO INCLUDE ALL ELECTRICAL AND DATA CONNECTIONS. COORDINATE INSTALLATION AND PHASING WITH ALL TRADES.

TAGGED NOTES

1. NEW PANEL LOCATION. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. EXISTING PANEL LOCATION WITH NEW REPLACEMENT PANEL. REPLACEMENT PANEL TO BE 42 POLE 208/120 VOLT WITH 225 AMP MAIN BREAKER AND FEED THRU LUGS.
3. EXISTING PANEL LOCATION WITH NEW REPLACEMENT PANEL. REPLACEMENT PANEL TO BE 42 POLE 208/120 VOLT WITH 225 AMP MAIN BREAKER AND FEED THRU LUGS.
4. CONTRACTOR TO ROUTE POWER AND DATA VIA COLUMN CHASES INTO CASEWORK. CONDUCTORS GAUGE HAS BEEN INCREASED TO ALLOW UP TO NINE (9) CURRENT CARRYING CONDUCTORS TO BE RUN IN THE SAME RACEWAY. CONTRACTOR TO USE EXTREME CAUTION IN THE ROUTING OF ELECTRICAL AND DATA SYSTEMS AND COORDINATE ALL UTILITY PLACEMENT WITH CASEWORK AND ALL OTHER TRADES. COORDINATION DRAWINGS ARE REQUIRED. SEE SECTION 15000 FOR ADDITIONAL INFORMATION.
5. PROVIDE 3" CORE DRILL FOR POWER FEED TO INSTRUCTOR DESK. ALL FLOOR PENETRATIONS ARE TO BE FIRE RATED ASSEMBLY TO MAINTAIN FIRE DECK RATING.
6. PROVIDE 4" CORE DRILL FOR A/V AND DATA RACEWAY TO INSTRUCTOR DESK. ALL FLOOR PENETRATIONS ARE TO BE FIRE RATED ASSEMBLY TO MAINTAIN FIRE DECK RATING.
7. PROVIDE POWER CONNECTION AS NEEDED TO SUPPLY LOW-VOLTAGE INPUT TO LAB AIR VALVES. SEE MECHANICAL M&D FOR ADDITIONAL INFORMATION.
8. ELECTRICAL CONTRACTOR TO PROVIDE HOOD POWER SWITCH. SWITCH IS TO BE MOTOR RATED AND LABELED TO IDENTIFY FUNCTION.
9. EF-3 DISCONNECT TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION WITH MECHANICAL TRADE.
10. CONTRACTOR TO INTERCEPT EXISTING 3-1/2" CONDUIT FEEDER TO PENTHOUSE MOTOR CONTROL CENTER AND PROVIDE A SPLICE BOX AT LOCATION SHOWN. CONTRACTOR TO THEN REROUTE MCC FEEDER TO PENTHOUSE ROOF PRIOR TO ENTERING D611, ROUTE FEEDER ACROSS PENTHOUSE CEILING, AND FEED MCC FROM ABOVE.
11. RISER LOCATION FOR NEW MCC FEEDER. TO BE VERIFIED BY CONTRACTOR.
12. NEW FEEDER IN EXISTING CONDUIT FROM EXISTING BASEMENT SWITCHGEAR TO NEW PENTHOUSE PANEL.
13. EXISTING RISER LOCATION FOR NEW PENTHOUSE PANEL "PENT" FEEDER.
14. CIRCUIT TO BE 2#12, #12 G IN 3/4" CONDUIT TO 20 AMP, SINGLE POLE BREAKER IN PANEL SHOWN. TYPICAL OF ALL THIRD FLOOR CIRCUITS FOR ROOM D324.
15. EACH DENTAL STATION IN ROOM D611 SHALL HAVE THE FOLLOWING ELECTRICAL POWER CONNECTIONS: (2) ABOVE COUNTER DUPLEX OUTLETS, (1) SHARED QUAD PLEX BELOW COUNTER PER BACK TO BACK WORKSTATIONS (WORKSTATIONS THAT DO NOT SHARE A BACK WITH ANOTHER WORKSTATION RECEIVE A QUAD-PLEX), (1) HARDWIRED LIGHT CONNECTION (LIGHT PROVIDED BY OTHERS), (1) HARDWIRED DENTAL SIMULATOR CONNECTION (SIMULATOR BY OTHERS), AND (1) PC POWER CONNECTION (PC BY OTHERS). CONTRACTOR TO PROVIDE ALL PROVISIONS FOR EACH OF THE POWER CONNECTIONS INDICATED. REFERENCE ARCHITECTURAL CASEWORK ELEVATION FOR ADDITIONAL INFORMATION.

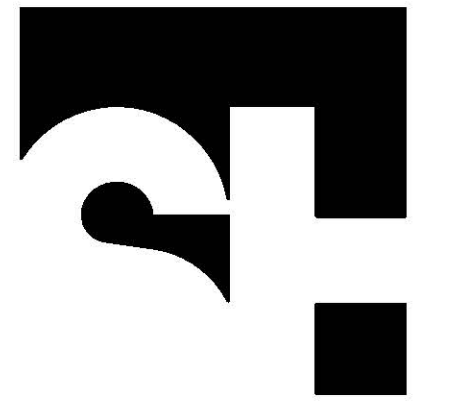
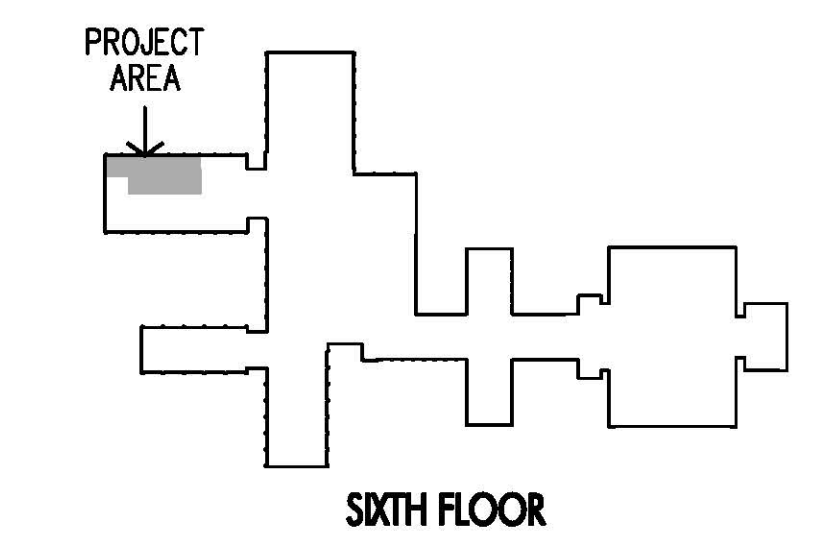
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NOT TO SCALE



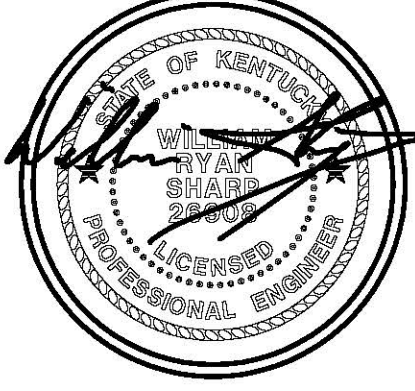
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**STENGEL-HILL
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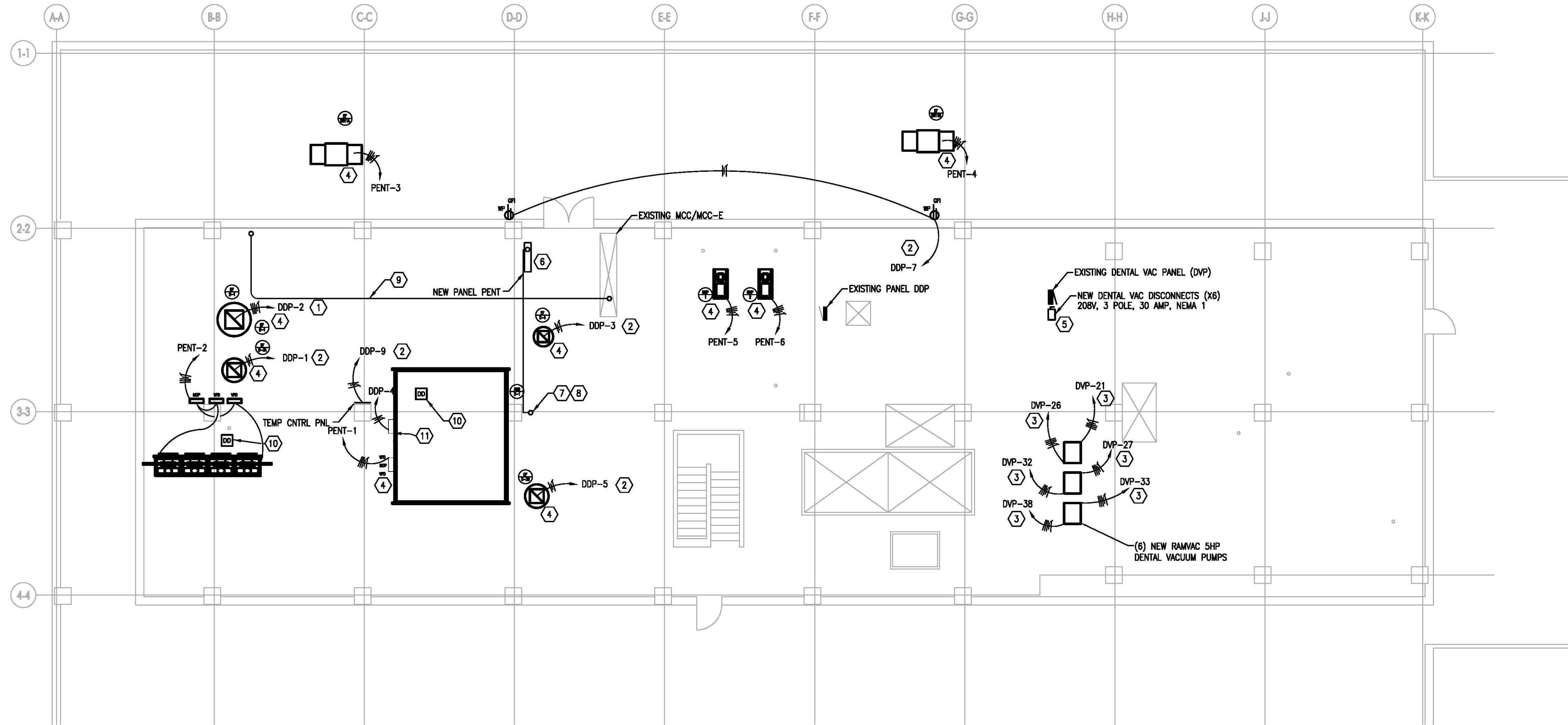
ELECTRICAL POWER DESIGN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWINGS

12 DECEMBER 2012
UKY1206

E4.0

RECORD DRAWINGS



01
E4.1

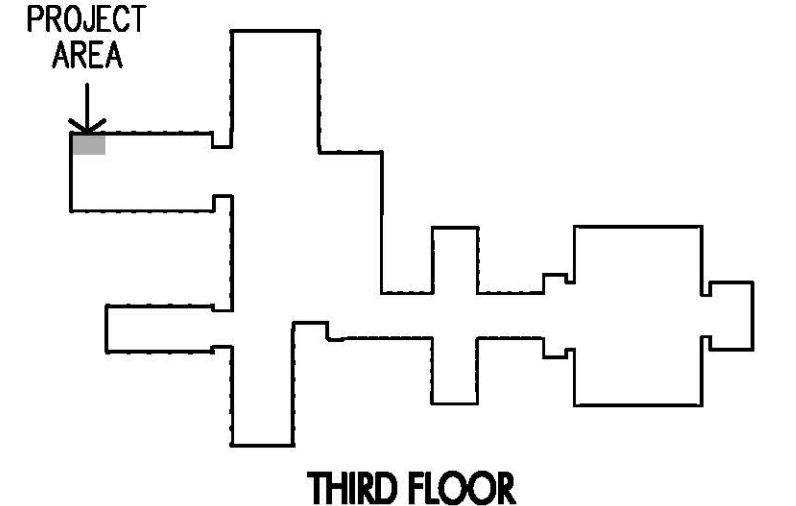
**PENTHOUSE
POWER DESIGN**
1/8" = 1'-0"

NORTH

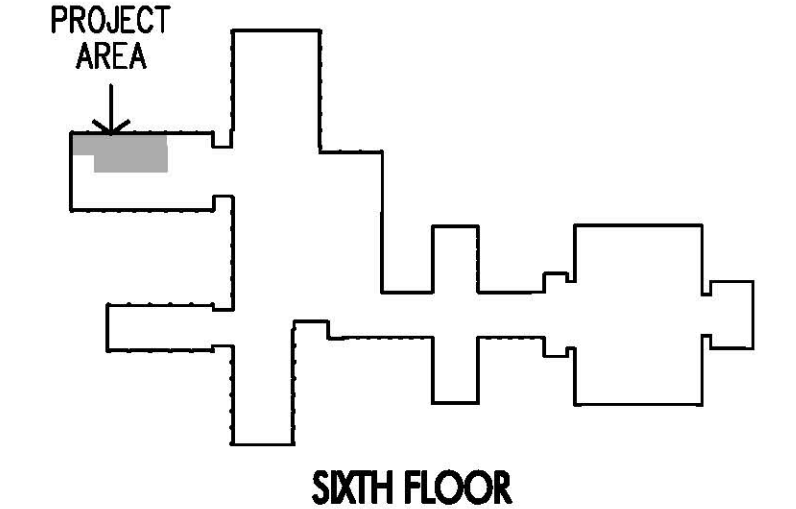
TAGGED NOTES: (X)

1. PROVIDE NEW 20 AMP/3 POLE BREAKER AT PANEL DDP WITH NEW FEEDER TO EQUIPMENT SHOWN. FEEDER TO BE 4#12, #12 G IN 3" CONDUIT.
2. PROVIDE NEW 20 AMP/1 POLE BREAKER AT PANEL DDP WITH NEW FEEDER TO EQUIPMENT SHOWN. FEEDER TO BE 2#12, #12 G IN 3" CONDUIT.
3. PROVIDE NEW 20 AMP/3 POLE BREAKER AT PANEL DVP WITH NEW FEEDER TO EQUIPMENT SHOWN. FEEDER TO FIRST BE FED TO DISCONNECT SWITCH. FEEDER TO BE 4#12, #12 G IN 3" CONDUIT.
4. DISCONNECT TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION WITH MECHANICAL TRADE.
5. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH MECHANICAL TRADE.
6. CONTRACTOR TO MOUNT PANEL "PENT" ON UNI-STRUT AT LOCATION SHOWN. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
7. THE EXISTING 3-1/2" CONDUIT RISER HAS BEEN VERIFIED IN THE CHASE ON ALL FLOORS. THE RISER IS A STRAIGHT VERTICAL RISER FROM THE GROUND FLOOR CEILING (ONCE AT THE CHASE) TO THE PENTHOUSE FLOOR. THERE IS AN EXISTING EMPTY PULL BOX LOCATED ON THE THIRD FLOOR. THE CONDUIT ROUTES ACROSS THE CEILING ON THE GROUND FLOOR TO THE MDP AND THE DISTANCE SHOWN ON THE AS-BUILT PLAN IS APPROXIMATELY 35' HORIZONTAL BUT IS TO BE CONFIRMED BY THE ELECTRICAL CONTRACTOR.
8. NEW FEEDER FOR NEW PANEL "PENT" FEEDER IN EXISTING 3-1/2" RISER CONDUIT FROM BASEMENT MDP. CONDUIT ROUTE IS CAPPED AT THE FLOOR AT LOCATION SHOWN. CONTRACTOR TO EXTEND CONDUIT AS NEEDED TO PANEL "PENT". CONTRACTOR IS TO PROVIDE A NEW CLASS 2 RECONDITIONED EXISTING BREAKER FOR THE EXISTING SWITCHGEAR WHICH HAS BEEN EXAMINED AND QUOTED BY EATON. THE BREAKER IS TO BE PROVIDED WITH A DTS10 TRIP UNIT. FEEDER IS TO BE 400 AMP 4#500 MCM, #3 G IN 3-1/2" CONDUIT.
9. REROUTED EXISTING MCC-E CONDUIT FED FROM THE SIXTH FLOOR. CONDUIT ROUTE IS FOR ILLUSTRATION AND IS TO BE VERIFIED IN THE FIELD. CONTRACTOR IS TO FEED MCC-E FROM ABOVE AND RE-TERMINATE FEEDER ON BUSSING. CAP AND SEAL EXISTING FEEDER.
10. NEW DUCT DETECTOR. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.
11. AHU LOAD CENTER

KEYPLAN
NOT TO SCALE



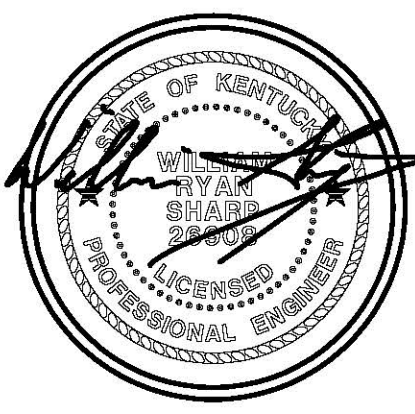
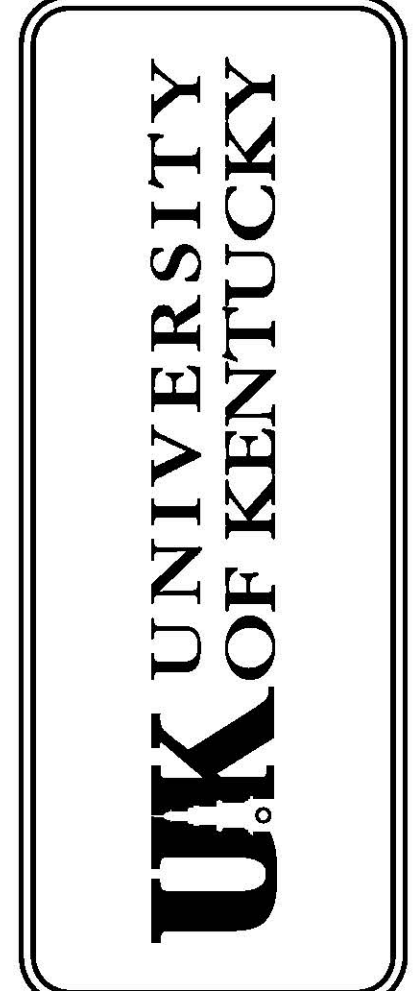
KEYPLAN
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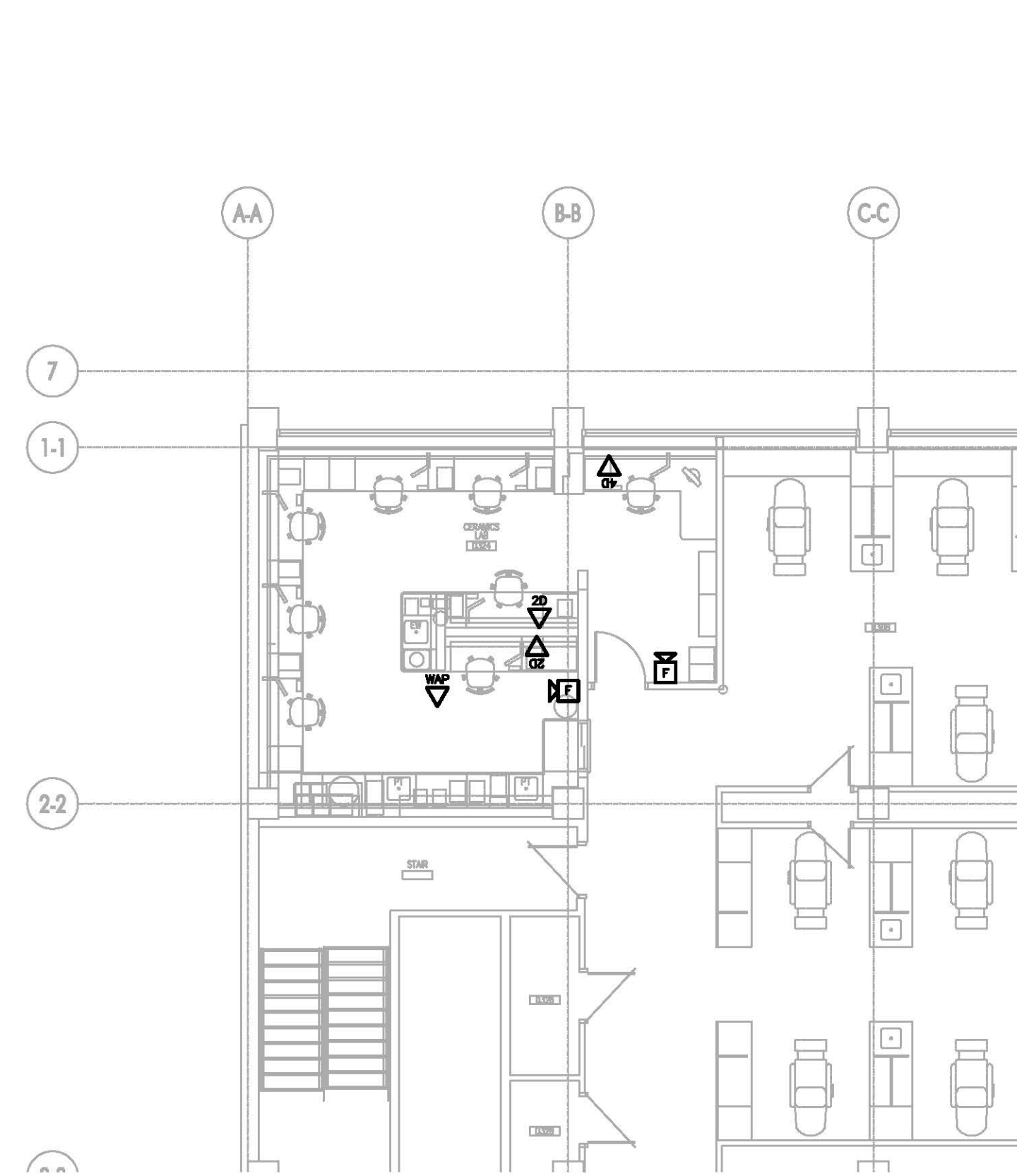
ELECTRICAL POWER DESIGN - PENTHOUSE
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

RECORD DRAWINGS

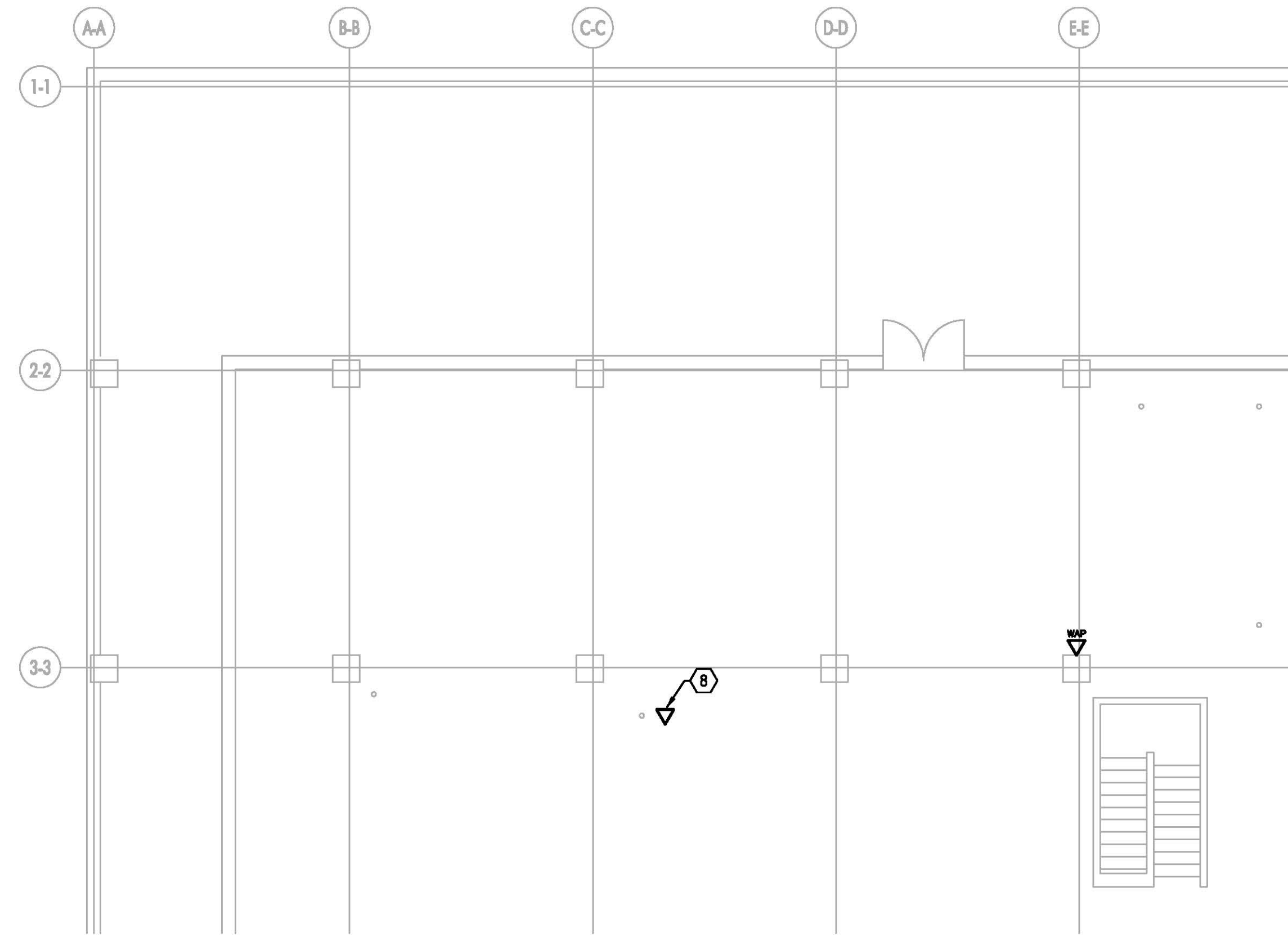
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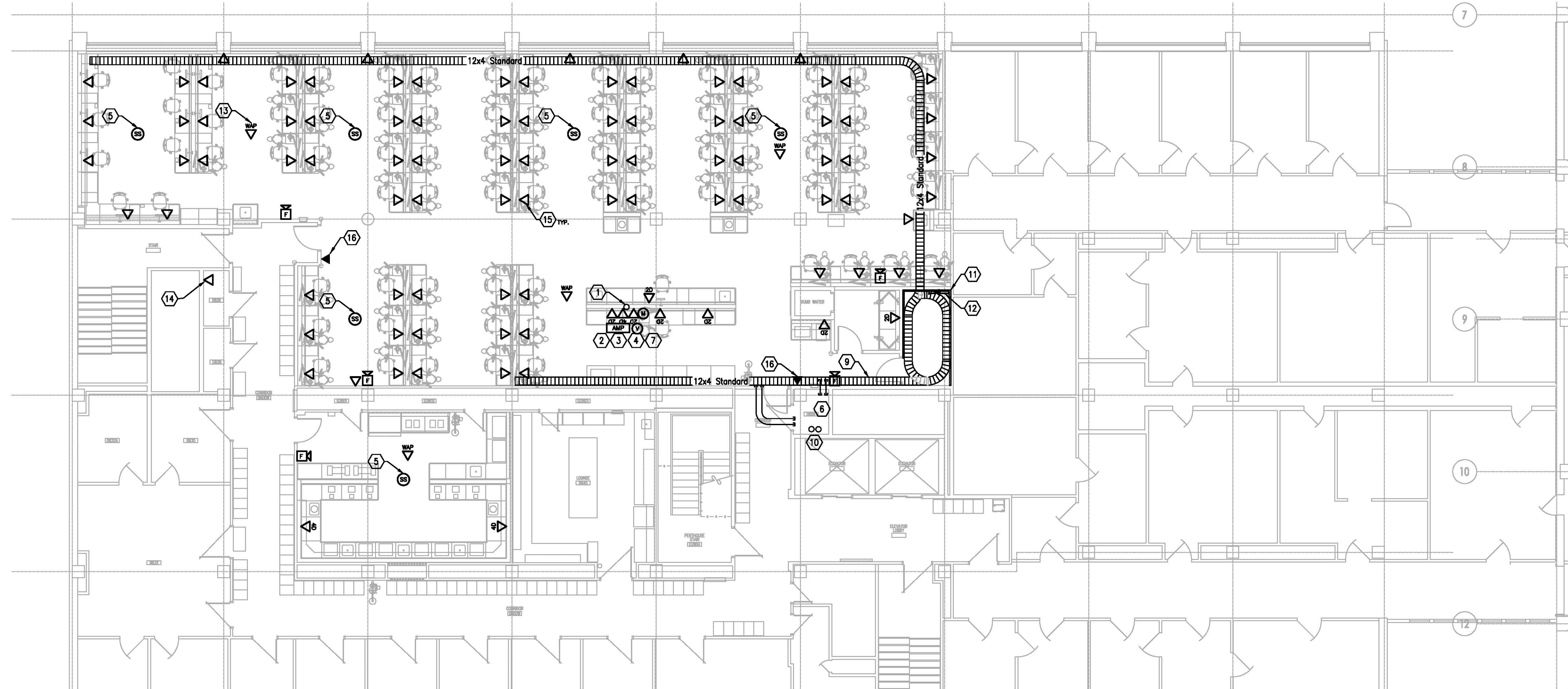
RECORD DRAWINGS



02
PARTIAL THIRD FLOOR
SYSTEMS DESIGN
E5.0 1/8" = 1'-0" NORTH



03
PARTIAL PENTHOUSE
SYSTEMS DESIGN
E5.0 1/8" = 1'-0" NORTH



01
PARTIAL SIXTH FLOOR
SYSTEMS DESIGN
E5.0 1/8" = 1'-0" NORTH

GENERAL NOTES:

- A. ETHERNET CABLE AND ETHERNET NETWORK DEVICES ARE TO BE PROVIDED AND INSTALLED BY UNIVERSITY OF KENTUCKY CNS. CONTRACTOR IS RESPONSIBLE FOR RACEWAY SYSTEMS AND POWER FOR ETHERNET NETWORK SYSTEM.
- B. CONTRACTOR IS RESPONSIBLE FOR COMPLETE A/V SYSTEM WITH THE EXCEPTION OF STUDENT AND INSTRUCTOR LAPTOPS (INCLUDING MOUNTS) AND WALL MOUNT FLAT SCREEN TELEVISIONS.
- C. FIRE ALARM SYSTEM TO BE PART OF BID ALLOWANCE AND PROVIDED BY SIMPLEX. CONTRACTOR IS RESPONSIBLE FOR RACEWAY AND FIRE ALARM CABLE TO DEVICE LOCATIONS. COORDINATE ALL FIRE ALARM INSTALLATION WITH SIMPLEX.

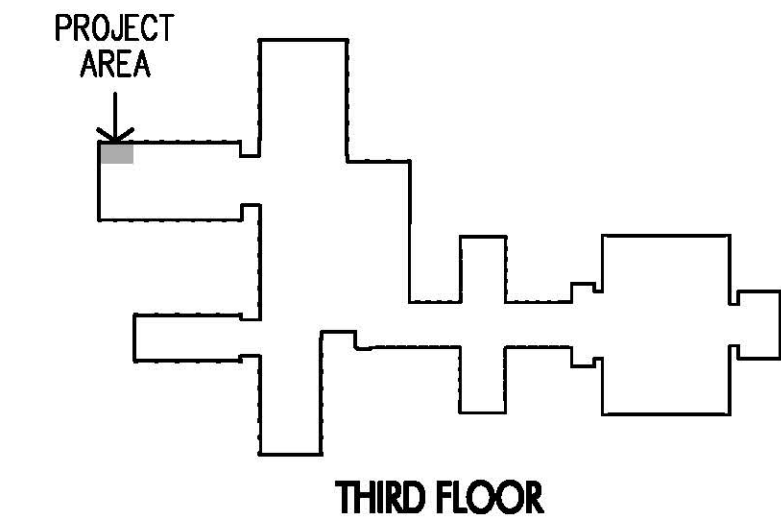
TAGGED NOTES:

- 1. CONTRACTOR TO PROVIDE 4" CONDUIT VIA CORE DRILL. A/V AND DATA CABLES ARE TO BE ROUTED VIA THIS CORE DRILL AND EXISTING CABLE TRAY ON THE 5TH FLOOR TO RISER AT ROOM D656.
- 2. A/V SYSTEM RACK. TO BE PULL OUT SHELF THAT ROTATES TO ACCESS BACK OF A/V EQUIPMENT. SHELF TO BE MIDDLE ATLANTIC SRSR-X (OR EQUAL). PROVIDE SHELF IN TWO CABINET LOCATIONS.
- 3. CONTRACTOR TO PROVIDE THE FOLLOWING A/V EQUIPMENT AT THE INSTRUCTOR'S STATION: (2) RACK MOUNT POWER DISTRIBUTION STRIPS WITH NO FRONT OUTLET (MIDDLE ATLANTIC PD-820 OR EQUAL), (1) 60 WATT MIXER/AMPLIFIER (TOA A-706 WITH OPTIONAL RACK MOUNT KIT OR EQUAL), (1) MIXER/AMPLIFIER (ATLAS AA35 OR EQUAL), 4X1 MICROPHONE MIXER WITH RACKMOUNT (SHURE SCM268 OR EQUAL), (2) BOUNDARY MICROPHONE OMNIDIRECTIONAL (SHURE MX393/O OR EQUAL), (1) HD READY SXGA PORTABLE PRESENTER DOCUMENT CAMERA (LUMENS OR EQUAL), (2) IP CAMERA WITH DOME WITH WALL MOUNT KIT AND POE ETHERNET ADAPTER (SONY SNC-DH140 OR EQUAL), (1) CUSTOM INTEGRAL WALLPLATE FOR MEDIA MANAGER (LIBERTY OR EQUAL). MEDIA MANAGER TO BE CAPABLE OF VIDEO AND AUDIO INPUT SELECTION.
- 4. CONTRACTOR TO PROVIDE AUDIO INTERFACES (INCLUDING CABLING AND TERMINATIONS) TO ALLOW THE INSTRUCTOR TO PROVIDE VOICE AMPLIFICATION VIA CLASSROOM D611 OVERHEAD SPEAKERS. CONTRACTOR TO PROVIDE VIDEO INTERFACES (INCLUDING CABLING AND TERMINATIONS) TO ALLOW TRANSMISSION OF DOCUMENT CAMERA, CLASSROOM CAMERAS, AND LAPTOP IMAGES (LAPTOP BY OWNER) TO BE TRANSMITTED ACROSS ETHERNET NETWORK.
- 5. NEW CEILING MOUNTED AUDIO SPEAKERS (ATLAS STRATEGY II SHALLOW OR EQUAL WITH IN CEILING MOUNT KIT FOR D611) (ATLAS PM OR EQUAL WITH PENDANT MOUNT KIT FOR D641).
- 6. CONTRACTOR TO PROVIDE (3) 4" CONDUIT SLEEVES FROM EXISTING COMM ROOM D656 TO NEW CABLE TRAY.
- 7. PROVIDE A ONE-WAY PAGING SYSTEM FROM THE INSTRUCTOR DESK INTO THE WET LAB D641. (APHONE LEF OR EQUAL) INCLUDE MASTER STATION WITH MICROPHONE AND BUTTON WITH AMPLIFICATION TO OVERHEAD SPEAKER.
- 8. ETHERNET REQUIRED FOR NEW TEMPERATURE CONTROL PANEL.
- 9. NEW LADDER TRAY BY CONTRACTOR. SEE SPECIFICATIONS AND CNS STANDARDS FOR ADDITIONAL INFORMATION.
- 10. TWO (2) 4" CORE DRILLS BETWEEN 5TH AND 6TH FLOOR FOR DATA AND A/V CABLE PATHWAY.
- 11. WALLS TO HAVE FIRE RETARDANT PLYWOOD. SEE ARCHITECTURAL PLANS AND CNS STANDARDS.
- 12. TERMINAL GROUND BUS BY CONTRACTOR.
- 13. WIRELESS ACCESS PORT LOCATION. WIRELESS ACCESS PORT TO BE PROVIDED AND INSTALLED BY UNIVERSITY OF KENTUCKY (CNS). CONTRACTOR TO PROVIDE NEW 4-11/16" BOX ATTACHED TO UNISTRUT WITH A SINGLE GANG MUD RING AND FACEPLATE. PROVIDE 1" CONDUIT TO CABLE TRAY WITH PULL STRING (TYPICAL).
- 14. ETHERNET REQUIRED FOR NEW LIGHTING CONTROL PANEL.
- 15. EACH LAB STATION TO HAVE ETHERNET DEVICE PLATE (BY UK CNS) WITH A HARD WIRED CONNECTION TO OWNER PROVIDED LAPTOP. CONTRACTOR IS RESPONSIBLE FOR NETWORK CABLE RACEWAY VIA CABLE TRAY AND CONDUIT.
- 16. WALL MOUNT TELEPHONE LOCATION.

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Record Documents Date: 10/15/2013

KEYPLAN

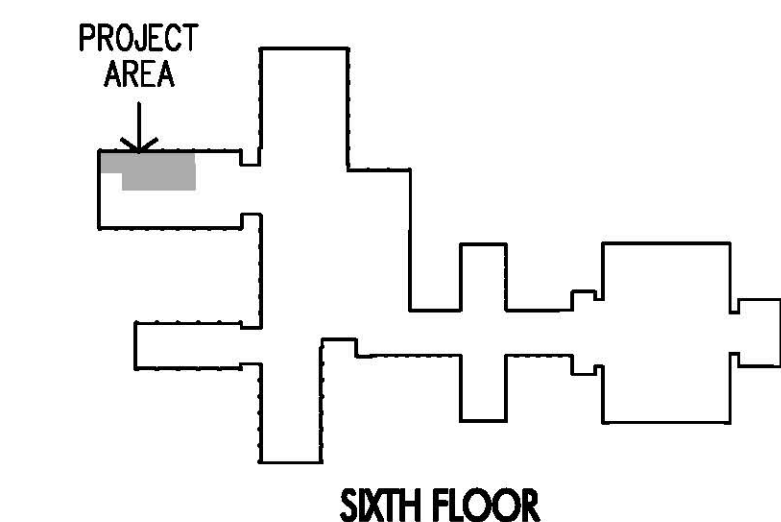
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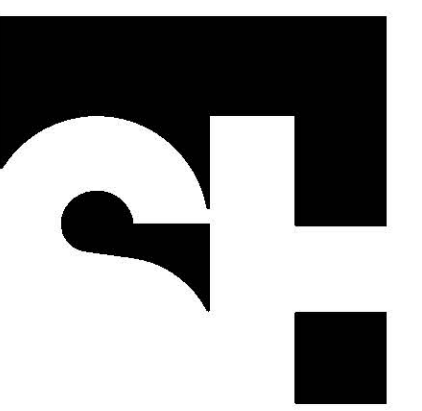
THIRD FLOOR

KEYPLAN

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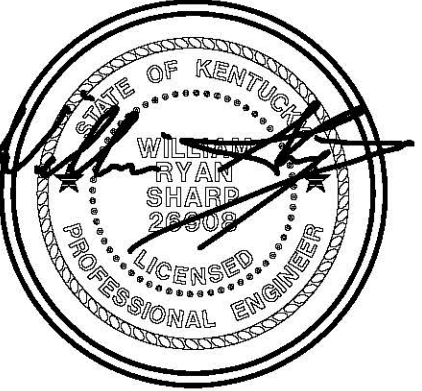
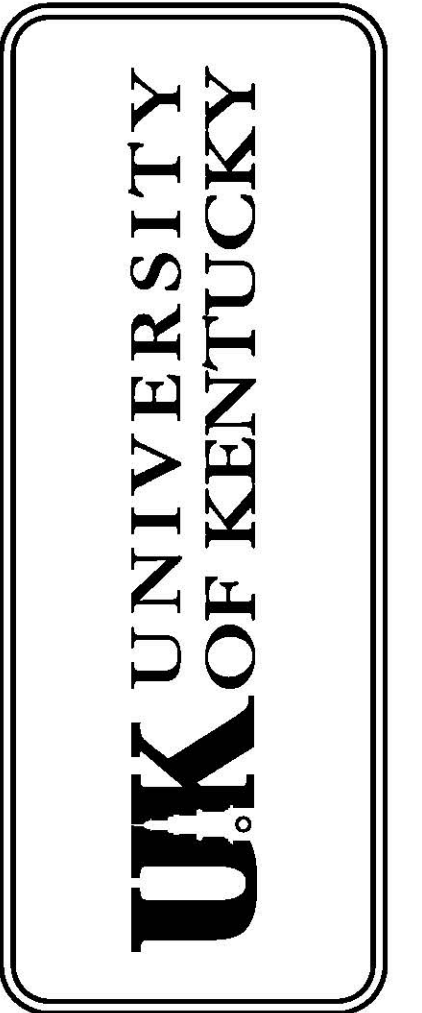


SIXTH FLOOR



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ELECTRICAL SYSTEMS DESIGN
RENOVATE DENTISTRY CLASS LABS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

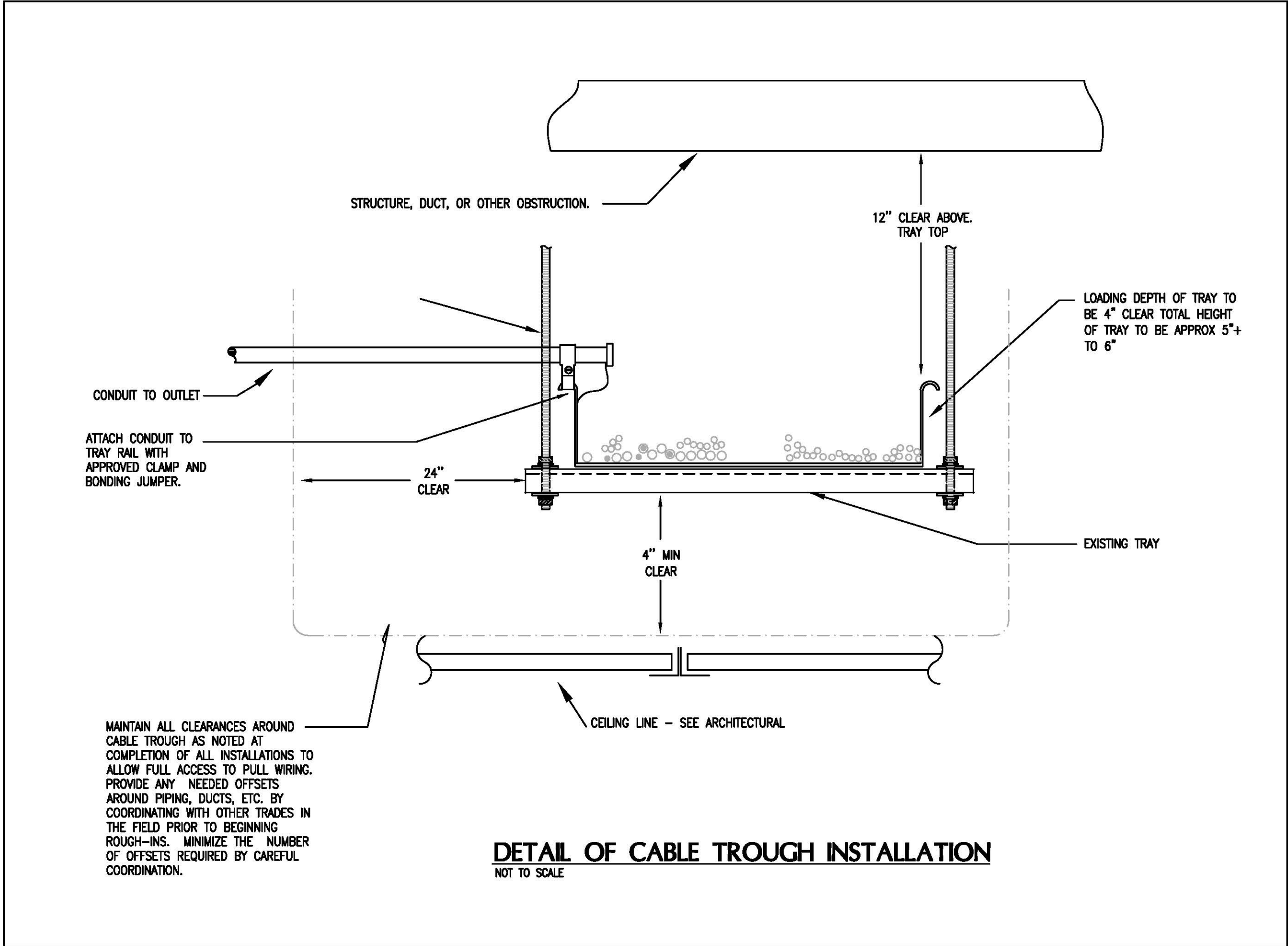
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12 DECEMBER 2012
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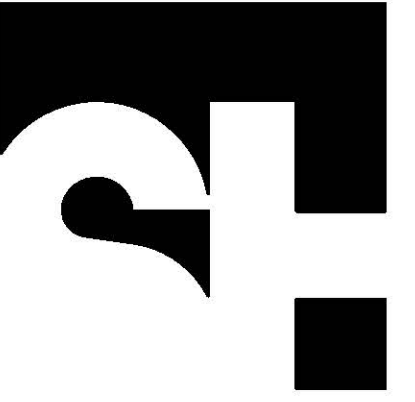
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RECORD DRAWINGS

PANELBOARD AND WIRING SCHEDULE																				
PANELBOARD:		PENT			VOLTAGE:		208Y/120		AMPERES:		800		AIC: 10,000		MB: 400'					
Mg H.	GND	CON	LOAD			DESIGNATION	WIRE	BKR	CKT	CKT	BKR	WIRE	DESIGNATION	LOAD			CON	GND	Mg H.	
			A	B	C									A	B	C				
			21.2			AHU-D-1 SUPPLY	250					SPACE								
			21.2			-	250	250/3	1			-								
			21.2			-	250					-								
			14.3			AHU-D-1 RETURN	2/0					SPACE								
			14.3			-	2/0	179/3	2			-								
			14.3			-	2/0					-								
			1.3			EF-D611A	12					SPACE								
			1.3			-	12	20/3	3			-								
			1.3			-	12					-								
			1.3			EF-D611B	12					SPACE								
			1.3			-	12	20/3	4			-								
			1.3			-	12					-								
			5.7			HWP-1	4					SPACE								
			5.7			-	4	90/3	5			-								
			5.7			-	4					-								
			5.7			HWP-2	4					SPACE								
			5.7			-	4	90/3	6			-								
			5.7			-	4					-								
			1.1			CWP-1	12					SPACE								
			1.1			-	12	20/3	7			-								
			1.1			-	12					-								
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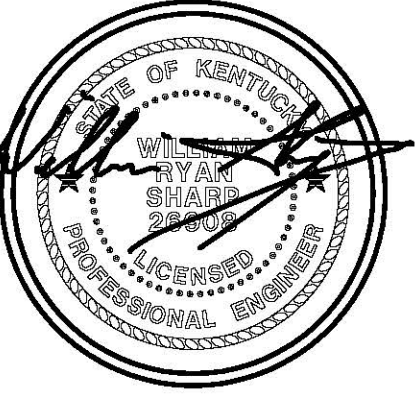


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