UNIVERSITY OF COLORADO, DENVER I ANSCHUTZ MEDICAL CAMPUS

R1 7TH FLOOR PHYSIOLOGY DEPT RENOVATIONS PN 23-159479 12800 E 19TH AVE AURORA, CO 80045 CONSTRUCTION DOCUMENTS

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LEVEL 07 - FIRE PROTECTION PLAN AREA A

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PN 23-159479 37-24104-00 COVER SHEET

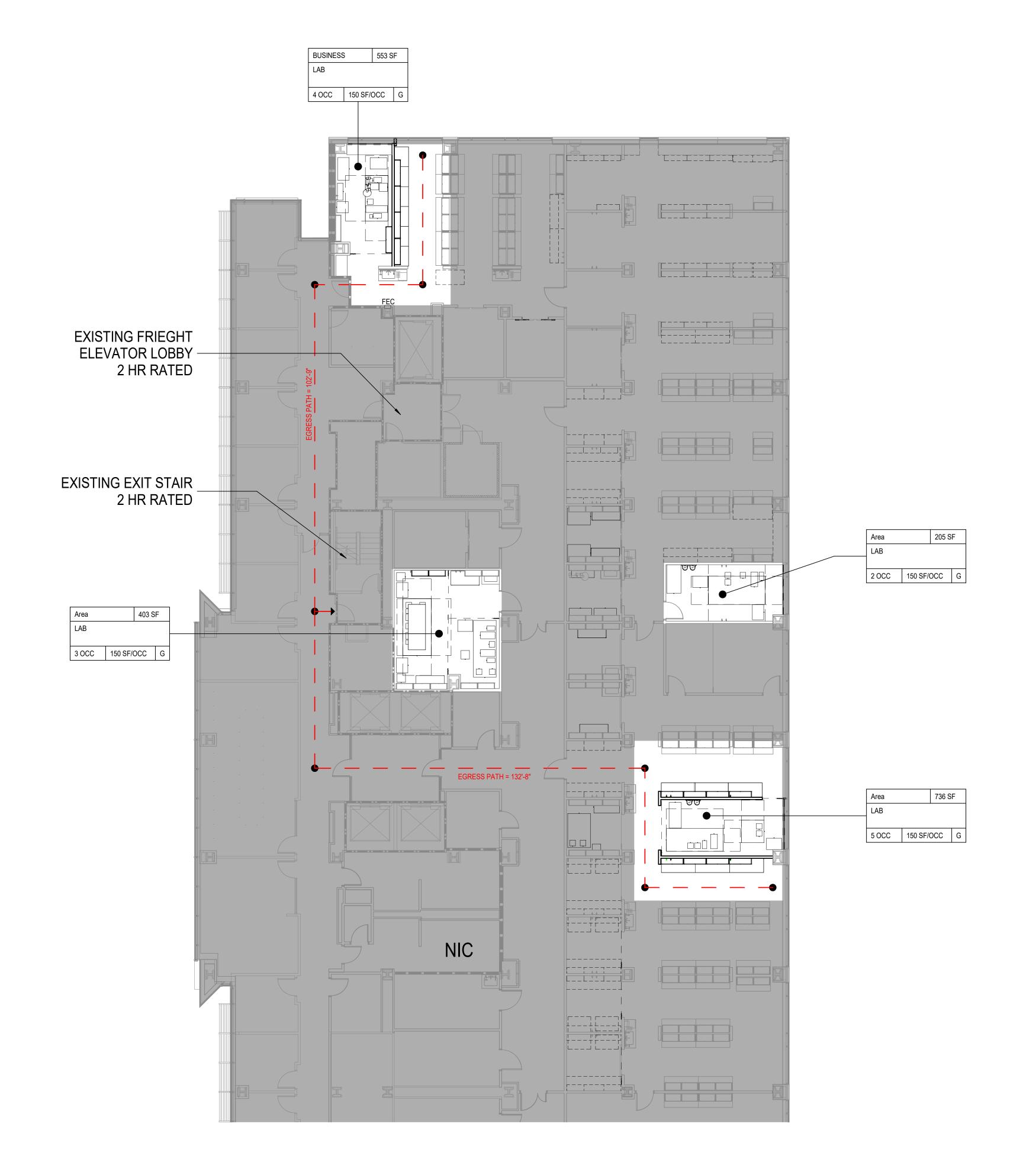
G0.1





A 0 0

CP1.1



CODE PLAN, LEVEL 7

SCALE: 1" = 10'-0"

PROJECT DESCRIPTION CH. 9 FIRE PROTECTION SYSTEMS THE PROJECT SCOPE CONSISTS OF SELECT DEMOLITION LAB CASEWORK, CEILINGS, LAB GAS & ELECTRICAL SYSTEMS. BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH 903.2 AND 903.3.1.1 AUTOMATIC SPRINKLER SYSTEM PER NFPA-13 TO BE MODIFIED AS REQUIRED. INSTALLATION OF NEW FULL HEIGHT PARTITION, FUME EXTRACTION ARM, LASER CURAIN, WINDOW SHADE & LIGHT FIXTURES IN LAB P18-7400A1. INSTALLATION OF LASER CURTAIN AND LASER SHELF IN PROCEDURE P18-7203. INSTALLATION OF WINDOW SHADE IN ALCOVE P18- 7401N. INSTALLATION OF NEW FULL HEIGHT PARTITION, LASER CURAIN, WINDOW SHADE & LIGHT FIXTURES IN LAB P18-7402D2. MODIFY EXISTING POWER LOCATIONS & HVAC TO ACCOMMODATE REMOVED ITEMS & NEW EQUIPMENT. PATCH AND REPAIR INTERIOR FINISHES TO MATCH EXISTING. THERE WILL BE NO CHANGE IN OCCUPANCY COUNT CH.10 MEANS OF EGRESS AND OCCUPANT LOAD APPLICABLE CODES OCCUPANCY LOAD REMAINS UNCHANGED, MEANS OF EGRESS REMAINS UNCHANGED. EXIT TRAVEL DISTANCE B OCCUPANCY - 300'-0" ACCESSIBILITY 2017 ICC/ANSI 117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES CH. 11 ACCESSIBILITY INTERNATIONAL BUILDING CODE 2021 IBC INTERNATIONAL BUILDING CODE AND STATE AMENDEMNTS INTERNATIONAL EXISTING BUILDING CODE INTERNATIONAL MECHANICAL CODE 2021 IEBC 2021 IMC SPACES WITHIN EMPLOYEE WORK AREAS SHALL ONLY BE REQUIERD TO COMPLY WITH SECTION 907.5.3.1, 1009 AND 1104.3.1. NEW CONSTRUCTION TO BE DESIGNED AND CONSTRUCTED SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER 2021 IPC INTERNATIONAL PLUMBING CODE AND EXIT THE WORK AREA. 2021 IECC INTERNATIONAL ENERGY CONSERVATION CODE INTERNATIONAL FIRE CODE 1104.3.1 EMPLOYEE WORK AREAS EXCEPTION 1: COMMON USE PATHS LOCATED WITHIN WORK AREAS THAT ARE LESS THAN 1,000 SF IN SIZE AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS, SHALL NATIONAL FIRE PROTECTION CODE 2021 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS NOT BE REQUIED TO BE ACCESSIBLE ROUTES. NATIONAL ELECTRIC CODE 2023 NFPA 70 NATIONAL FIRE ALARM AND SIGNALING CODE 2021 NFPA 72 2021 NFPA 101 LIFE SAFETY CODE CH. 3 OCCUPANCY CLASSIFICATION AND USE OCCUPANCY CLASSIFICATION AND USE REMAINS UNCHANGED CH. 5 BUILDING AREA MAIN BUILDING (EXISTING BUILDING AREA) EXISTING BUILDING. NO CHANGE IN AREA PROPOSED. RENOVATED AREA: 1937 SF CH. 6 CONSTRUCTION TYPE

TYPE I-A (EXISTING BUILDING) NO CHANGES, IN CONSTRUCTION TYPE

LEGEND - CODE FLOOR PLANS

Area name	!	XXXX	SF	OCCUPANT LOAD TAG (GROSS)
Space Fun	ction			
XXX OCC	XXX SF/	occ	G	

MAX TRAVEL = Length EXIT ACCESS TRAVEL DISTANCE

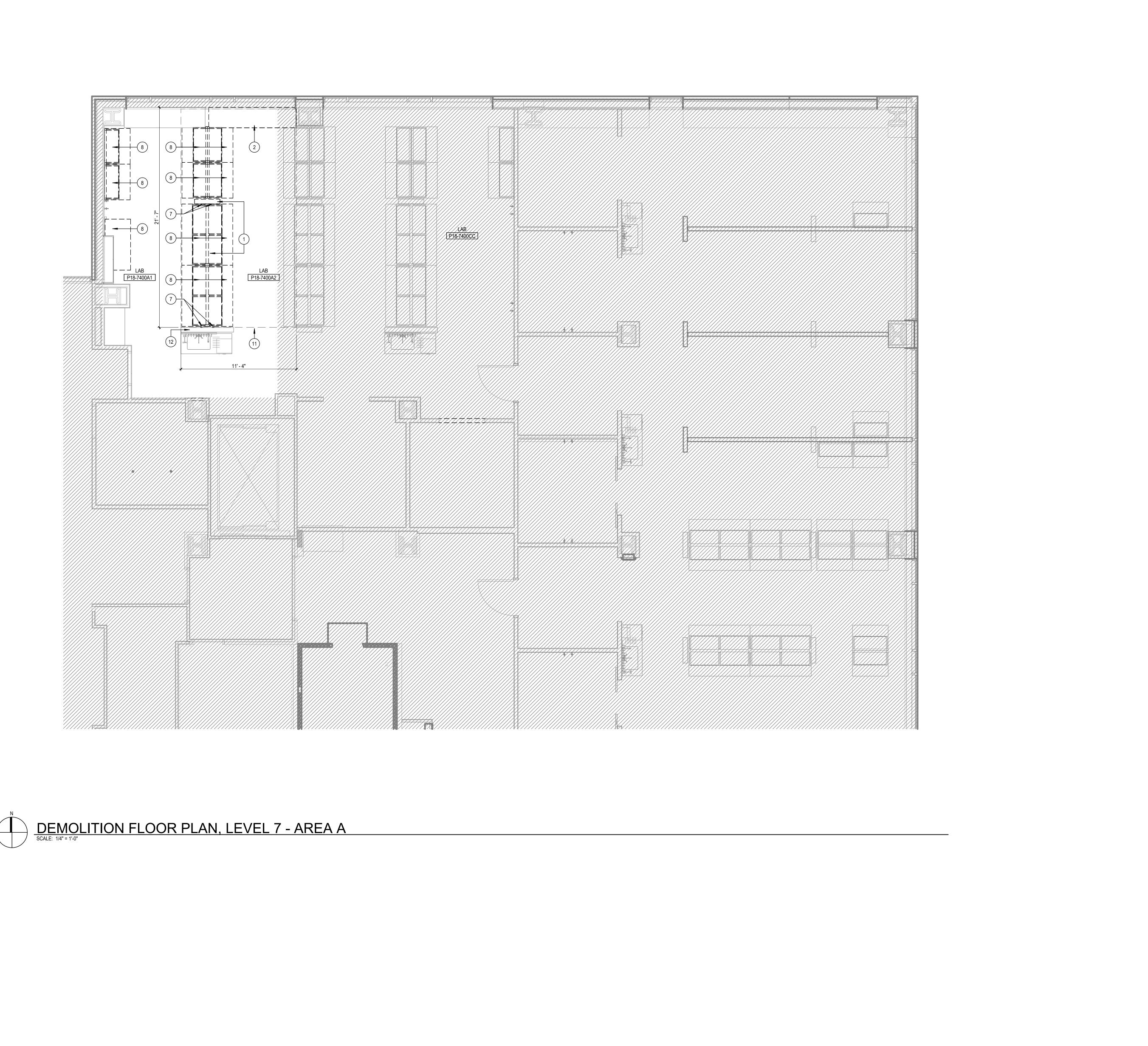
SEPARATION LEGEND

HOURLY RATING

1 = 1 HOUR

2 = 2 HOUR

SP = SMOKE PARTITION



DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PREAPPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE

FOR USER'S SAFETY.

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.

C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER

AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.

D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY

DISCREPANCIES.

F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE

DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT

I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION

AND/OR CONDITION.

J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER,

INTERRUPTION OF THEIR SERVICE.

L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH

COMMUNICATION AND DATA CABLES TO PREVENT

NEW OR EXISTING ADJACENT SURFACES.

N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.

O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS

DIRECTED BY GEOTECHNICAL ENGINEER.

P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0"

SHEET NOTES

BEYOND DEMOLITION.

REMOVE EXISTING SERVICE CHASE AND SUPPORT STRUCTURE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR UTILITIES. COORDINATE WITH CU ANSCHUTZ OFFICE OF INFORMATION TECHNOLOGY FOR ITEMS TO BE SALVAGED AND RELOCATED.

REMOVE EXISTING WALL MOUNTED COUNTERTOP AND SUPPORTS. RETURN TO OWNER'S STORAGE. PATCH AND REPAIR WALL FOR NEW WORK.
REMOVE EXISTING ADJUSTABLE SHELVES AND RETURN TO OWNER'S STORAGE. WALL BRACKETS TO REMAIN IN PLACE.
REMOVE EXISTING WINDOW BLINDS AND RETURN

TO OWNER'S STORAGE.

REMOVE PORTION OF EXISTING ACT GRID AND TILES.

REMOVE EXISTING LIGHT FIXTURE, RETURN TO OWNER'S STORAGE.

REMOVE EXISTING GAS SERVICE FIXTURE/VALVE.
REFER TO PLUMBING DRAWINGS FOR EXTENT OF

DEMOLITION.

MOVE AND STORE EXISTING MOVEABLE
CASEWORK, TABLES, AND WALL MOUNTED
SHELVING UNITS FOR RE-USE PER OWNER'S
INSTRUCTION, OR AS REQUIRED FOR NEW WORK.
COORDINATE WITH OWNER.
EXISTING RACEWAY TO BE RELOCATED IN NEW
WALL. RETURN TASK LIGHT TO OWNER'S STORAGE.

REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

EXISTING GAS VALVE TO BE RELOCATED IN NEW WALL. REFER TO FLOOR PLAN FOR LOCATIONS. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.

INFORMATION.

REMOVE PORTION OF EXISTING VCT FLOORING.

EXISTING SERVICE CHASE TO REMAIN.

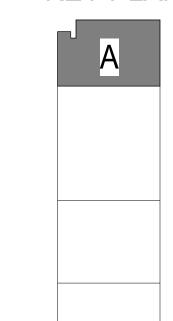
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KEY PLAN

AREA NOT IN SCOPE

<u>LEGEND</u>



PN 23-159479 37-24104-00 DEMOLITION

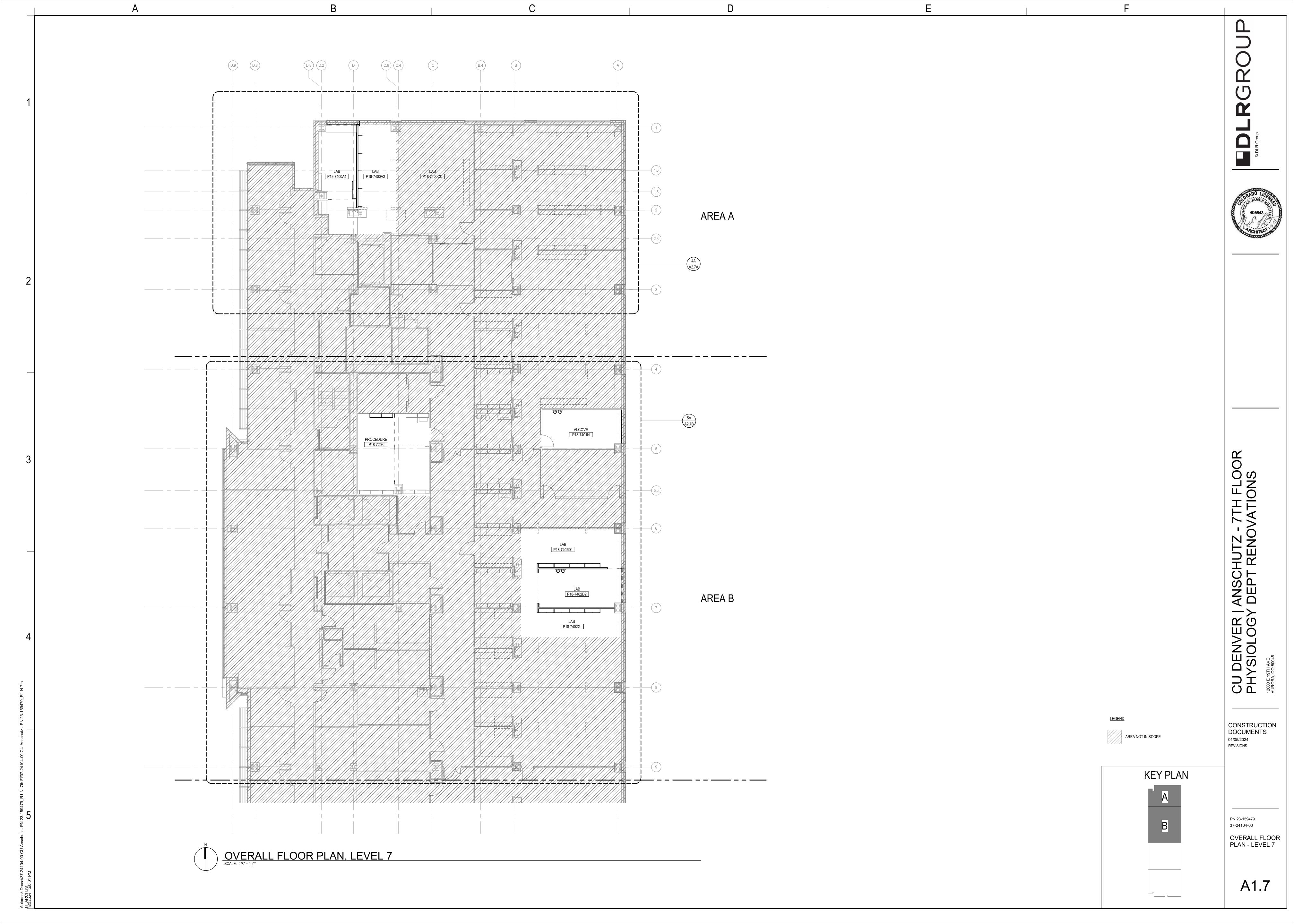
PLAN - LEVEL 7, AREA A

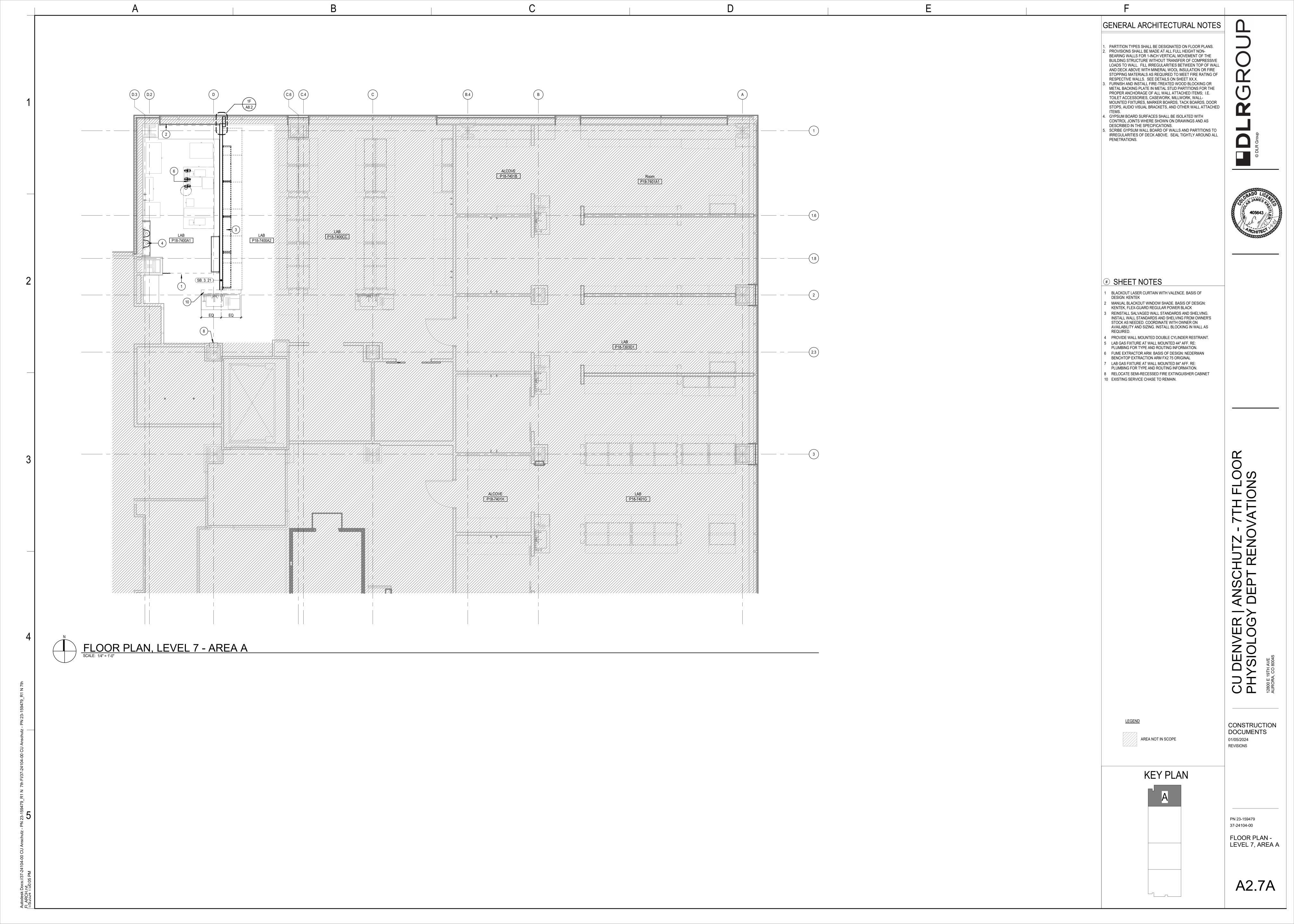
AD1.1A

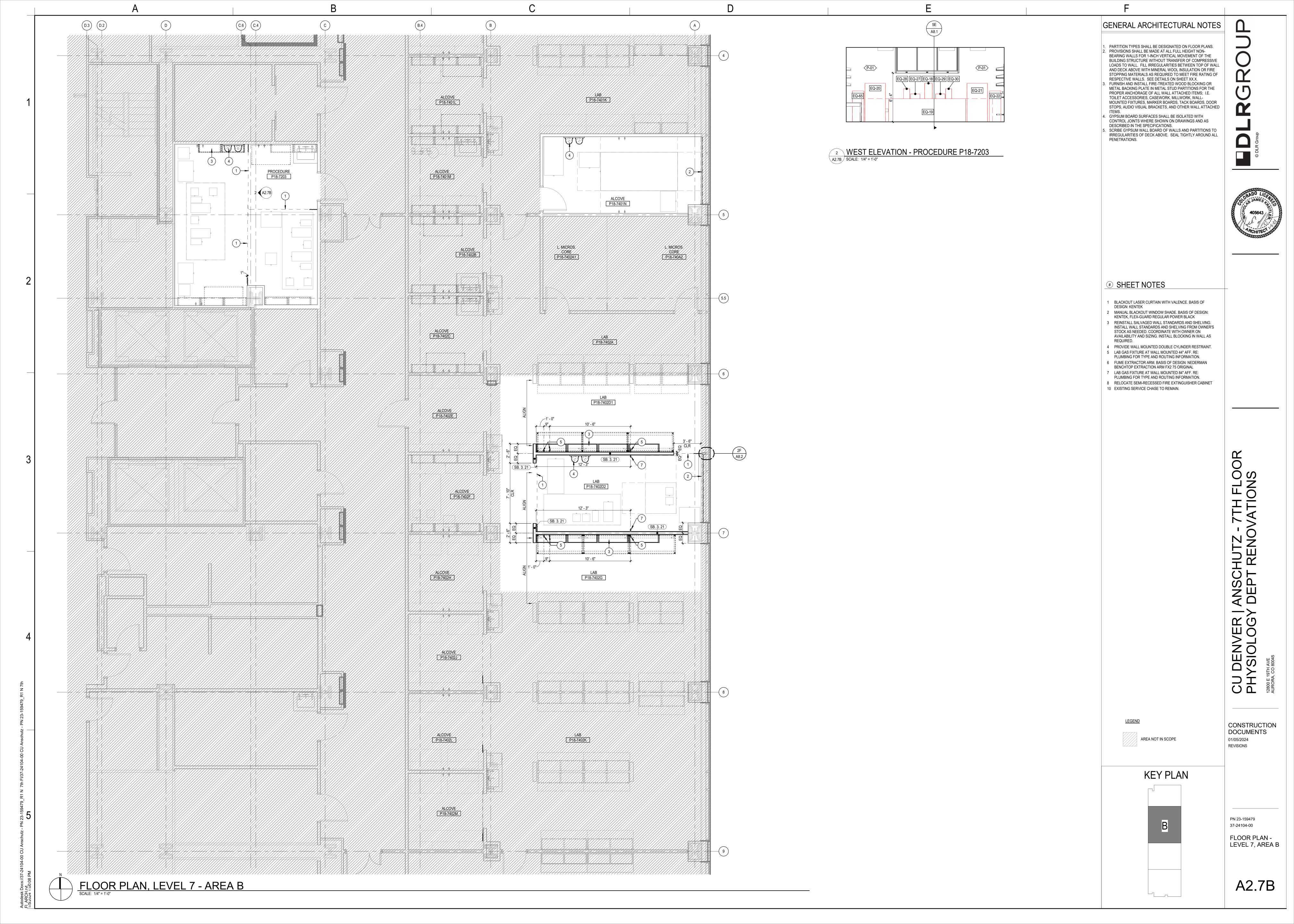


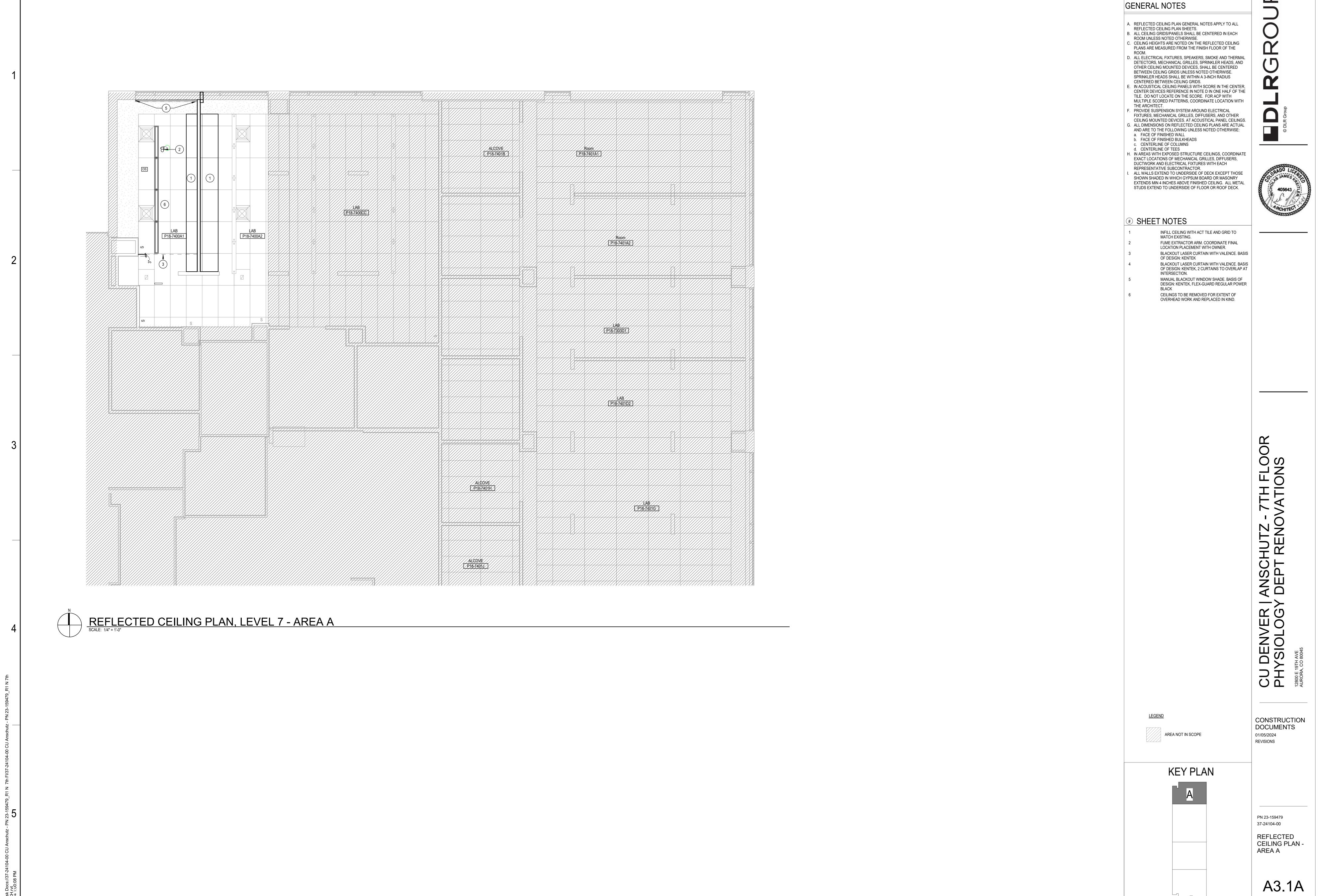






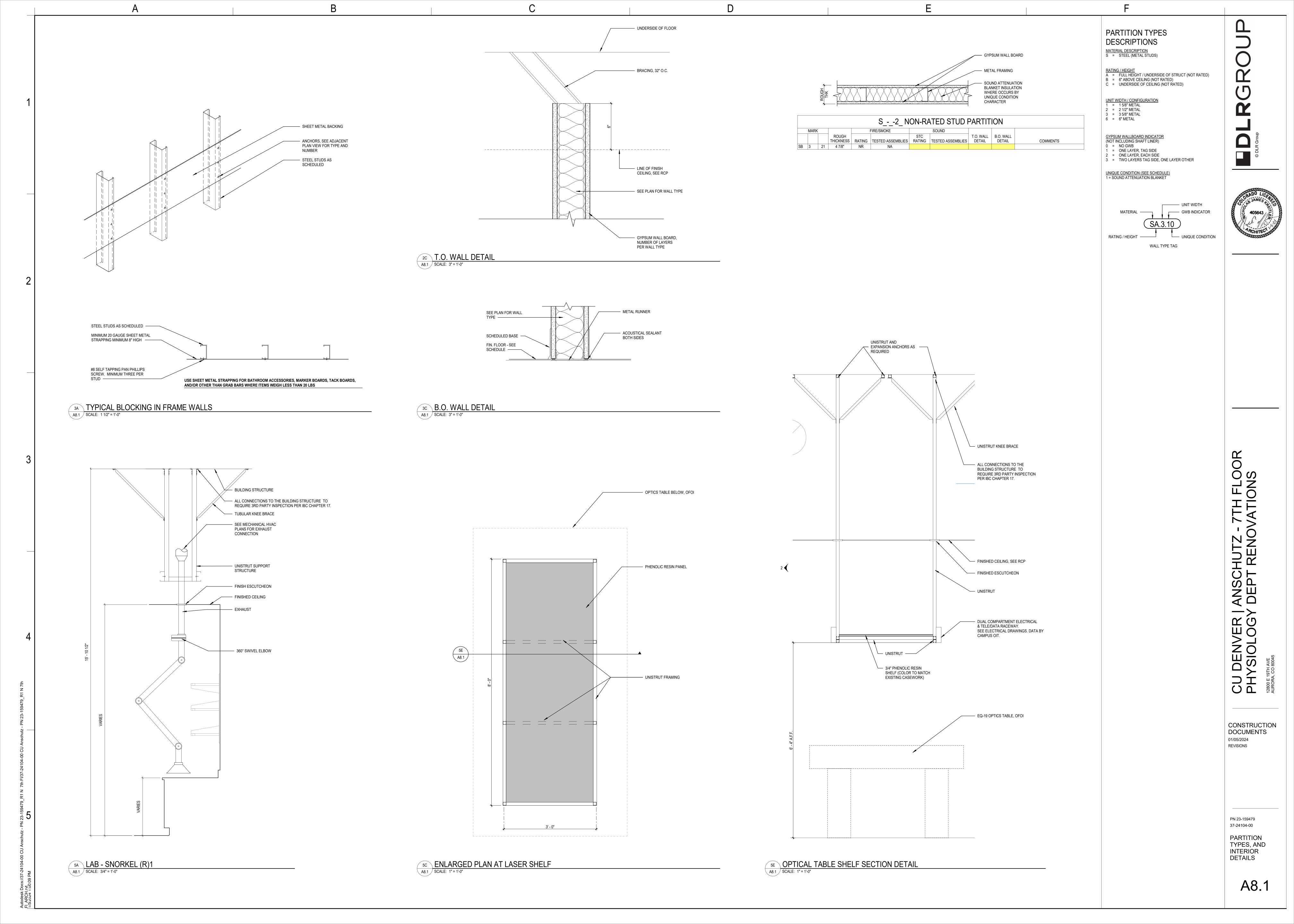


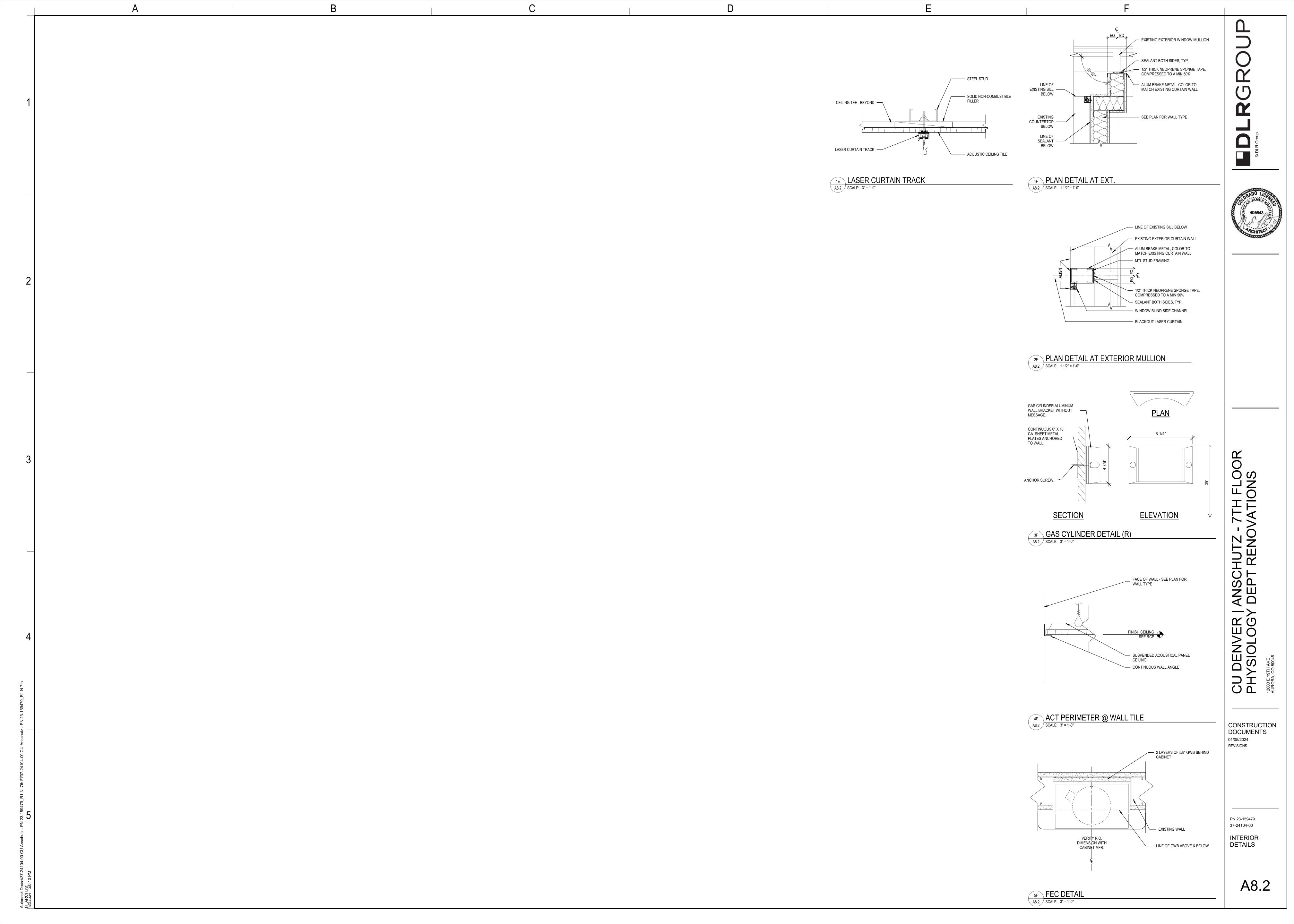


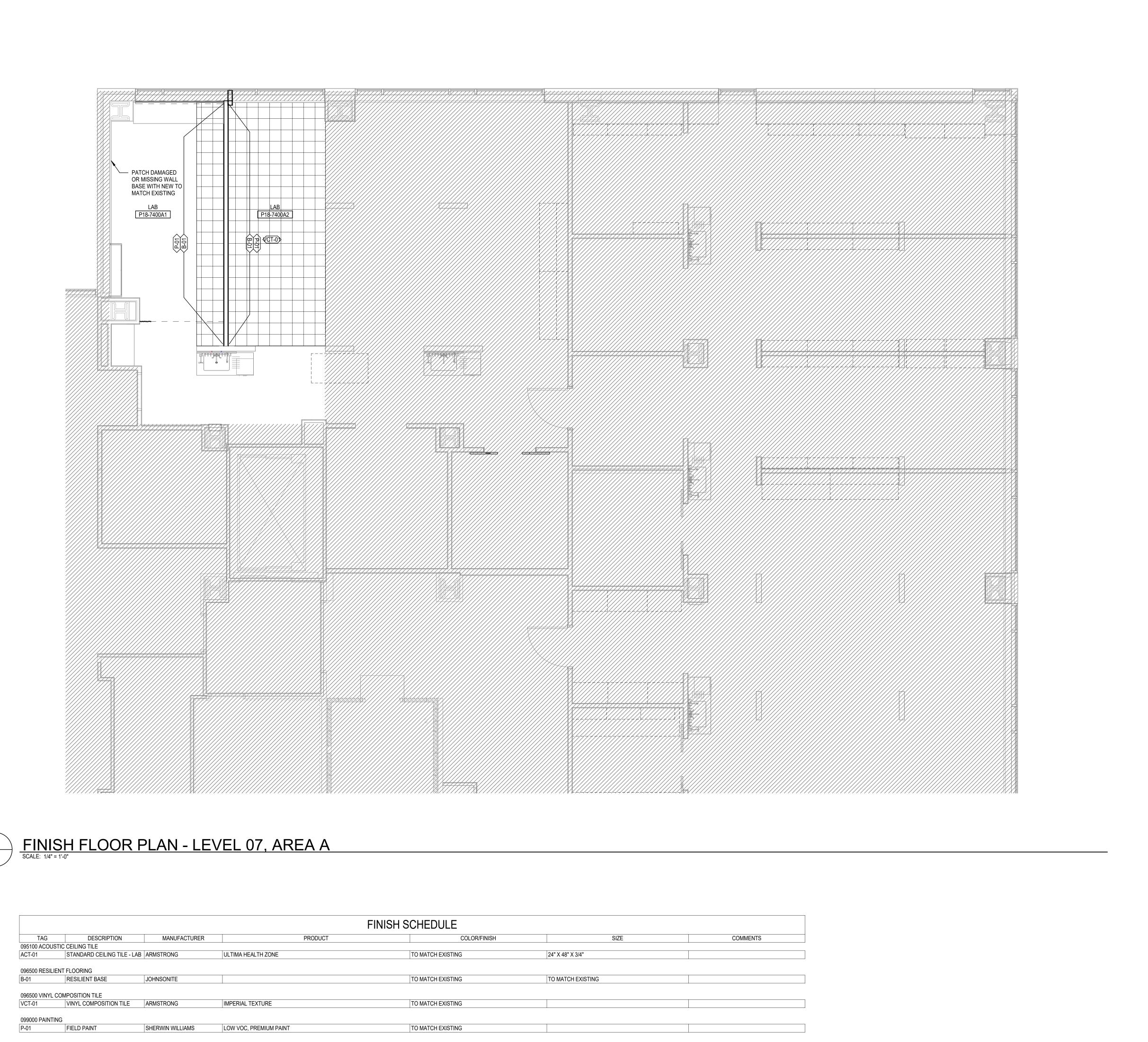


REFLECTED CEILING PLAN









INTERIOR FINISH PLAN GENERAL NOTES

- A. ROOM FINISH SCHEDULE GENERAL NOTES APPLY TO ALL ROOM FINISH SCHEDULE SHEETS.

 B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.

 C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE FOR FLOOR AND WALL FINISHES NOT NOTED.

 D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
- INTENT IS MAINTAINED.
- E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.

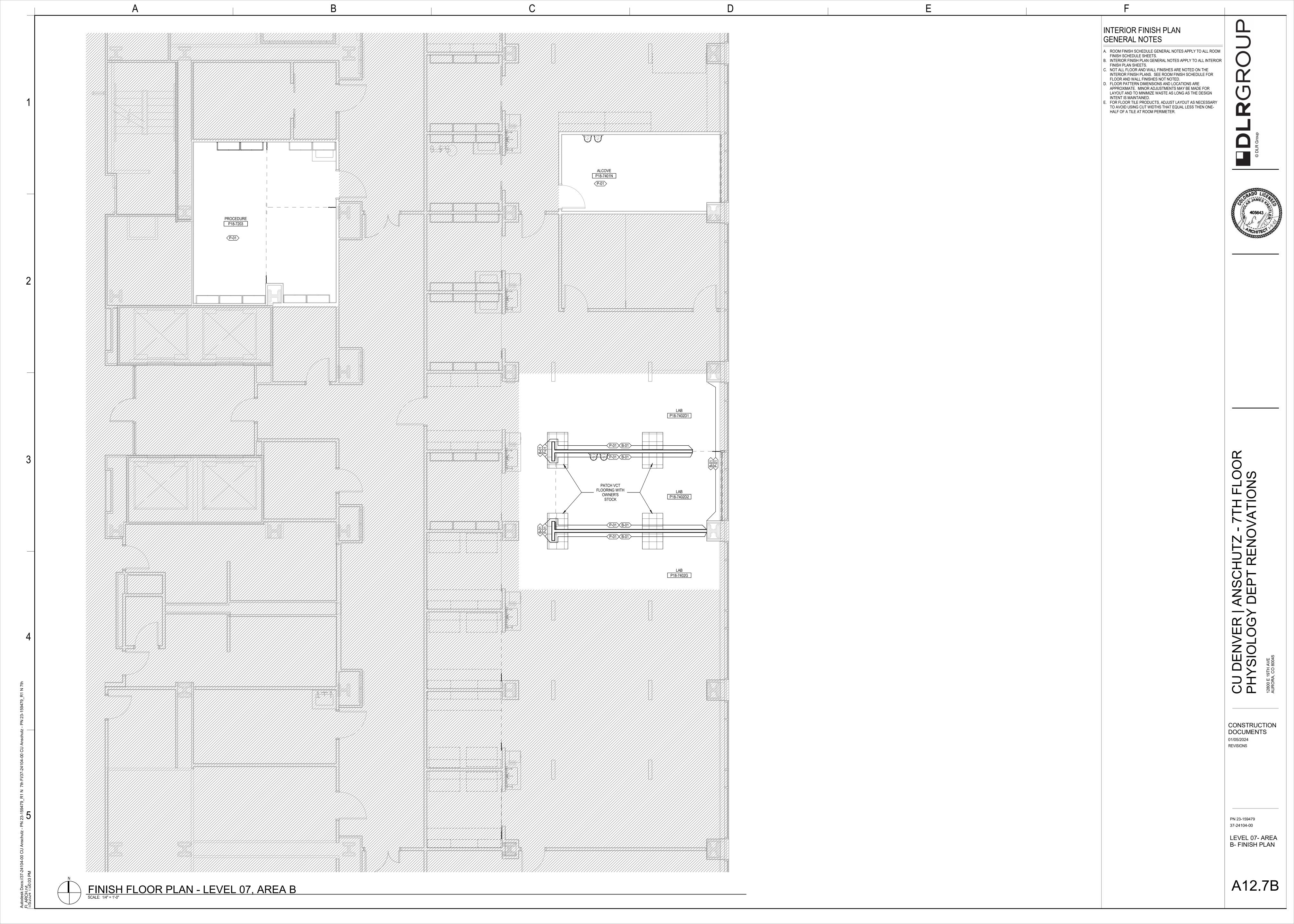
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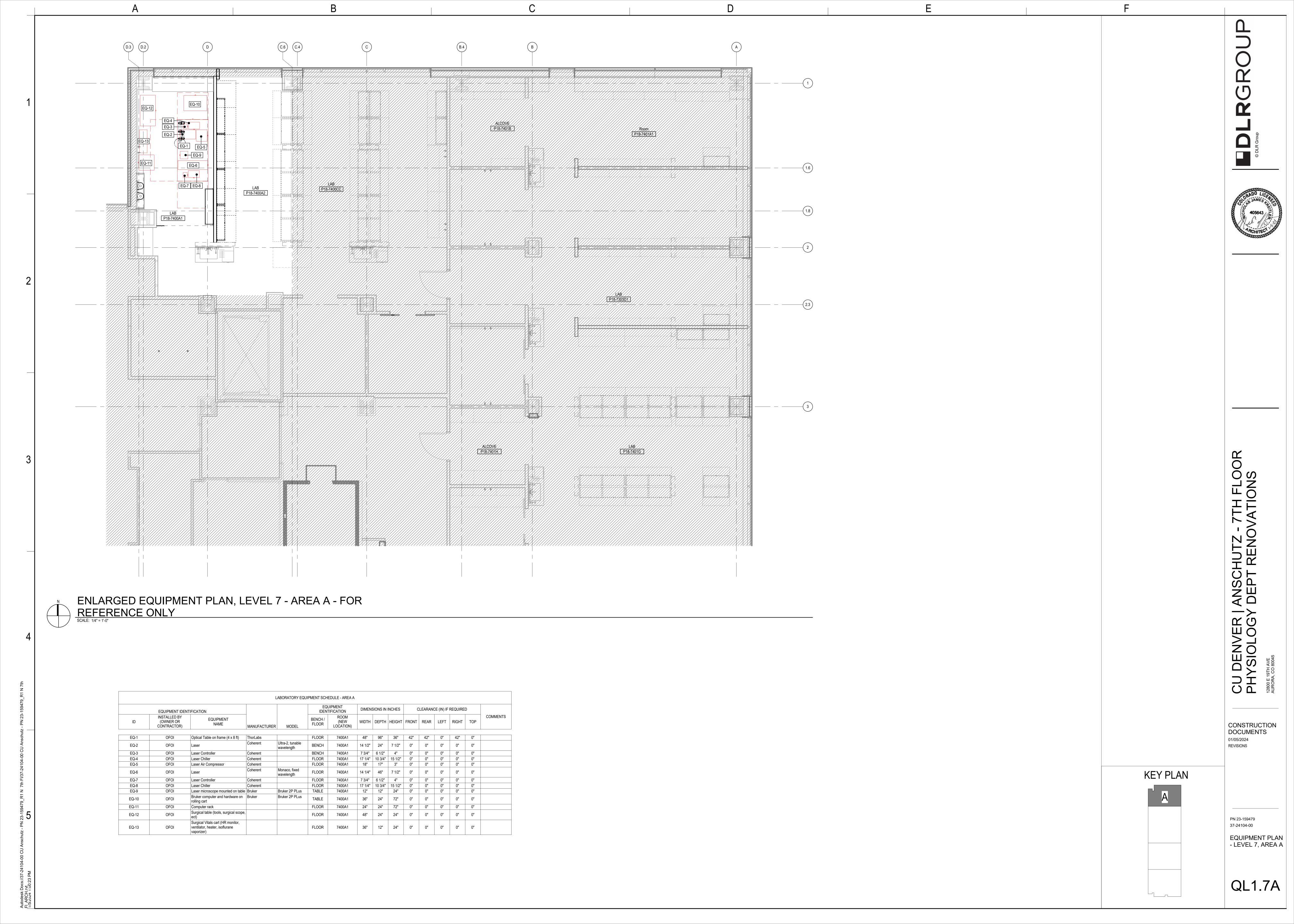
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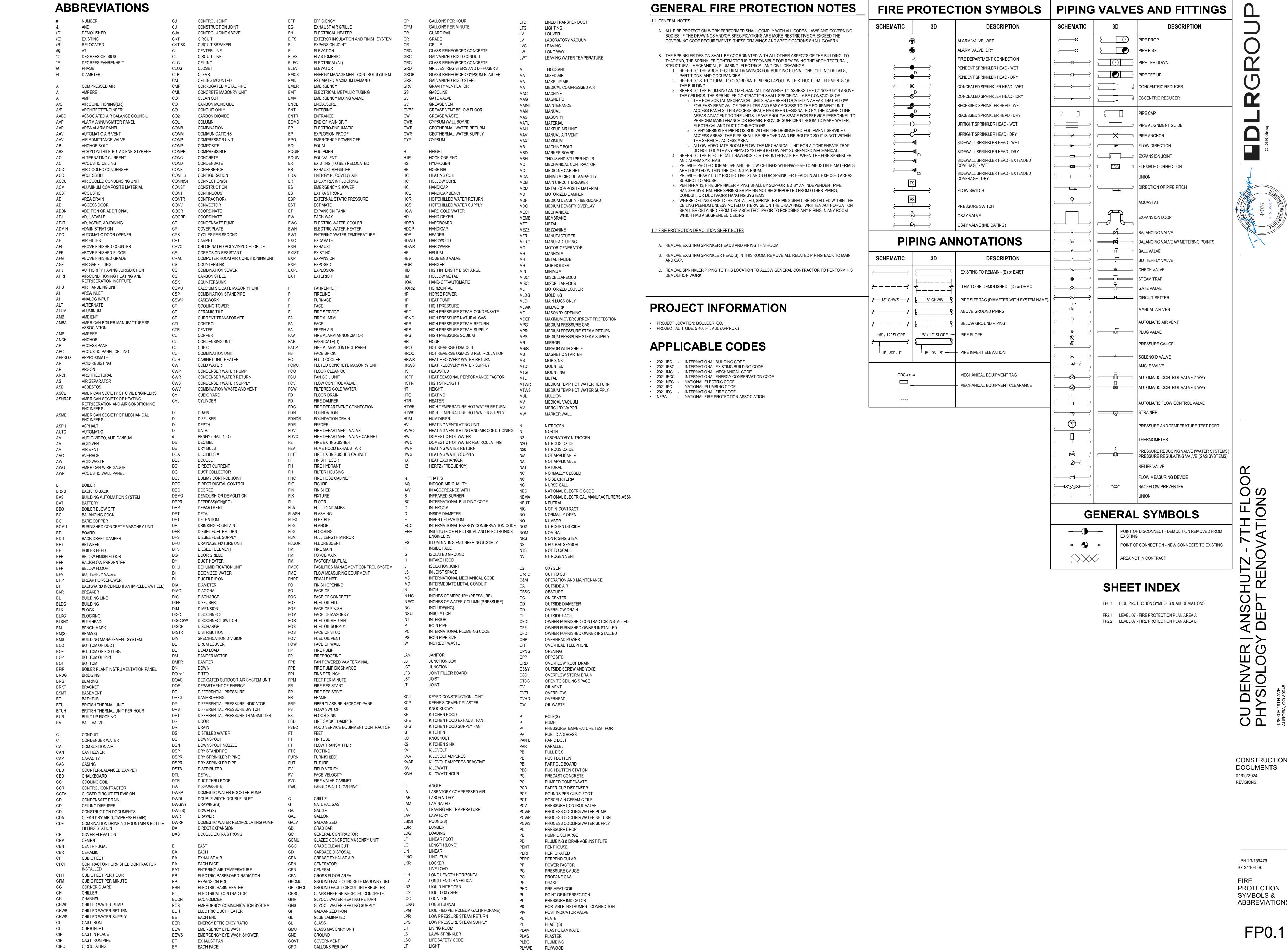
LEVEL 07 - AREA A - FINISH PLAN AND SCHEDULE

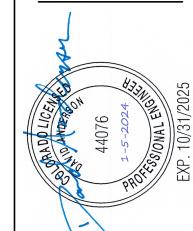
A12.7A









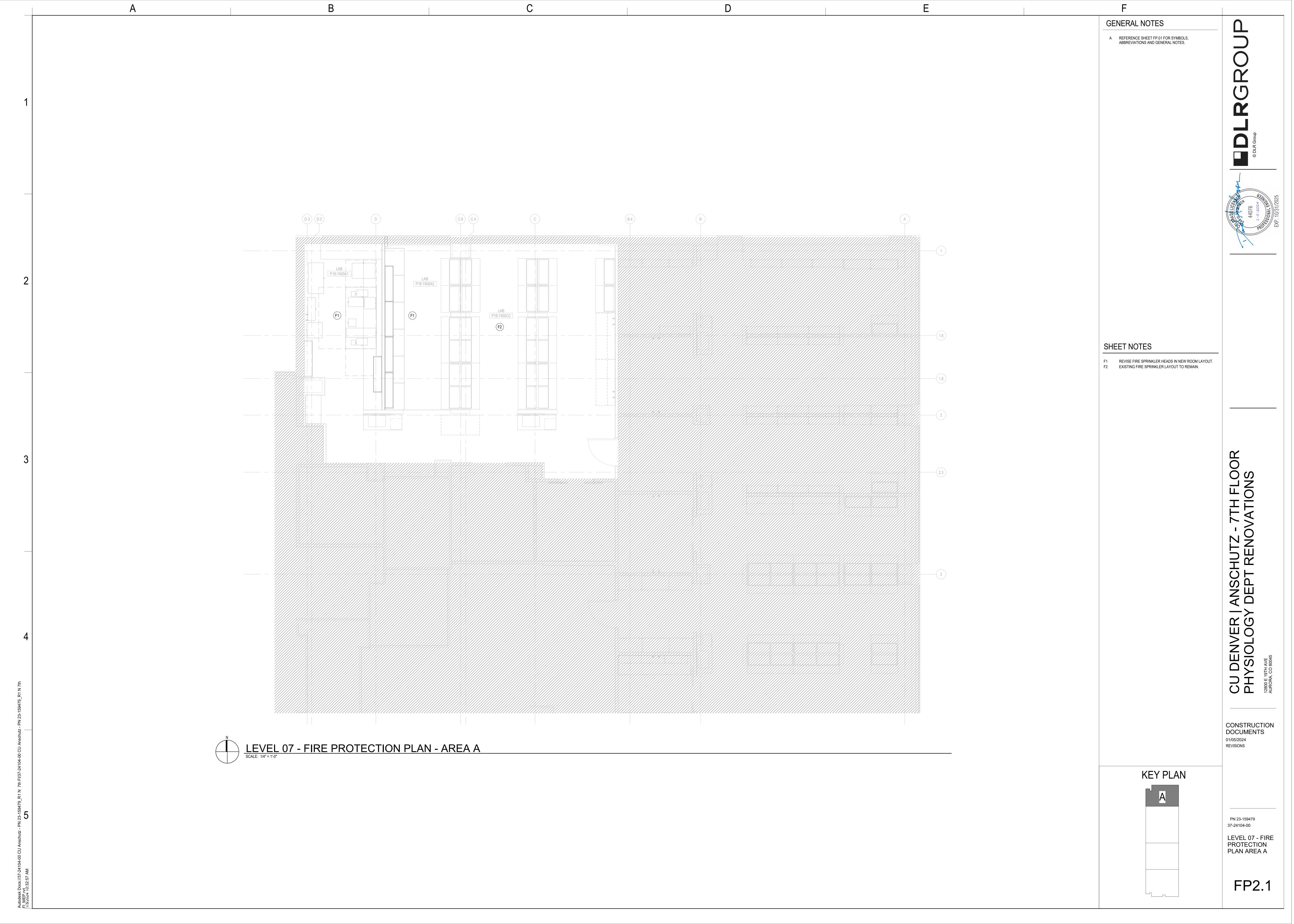


DOCUMENTS

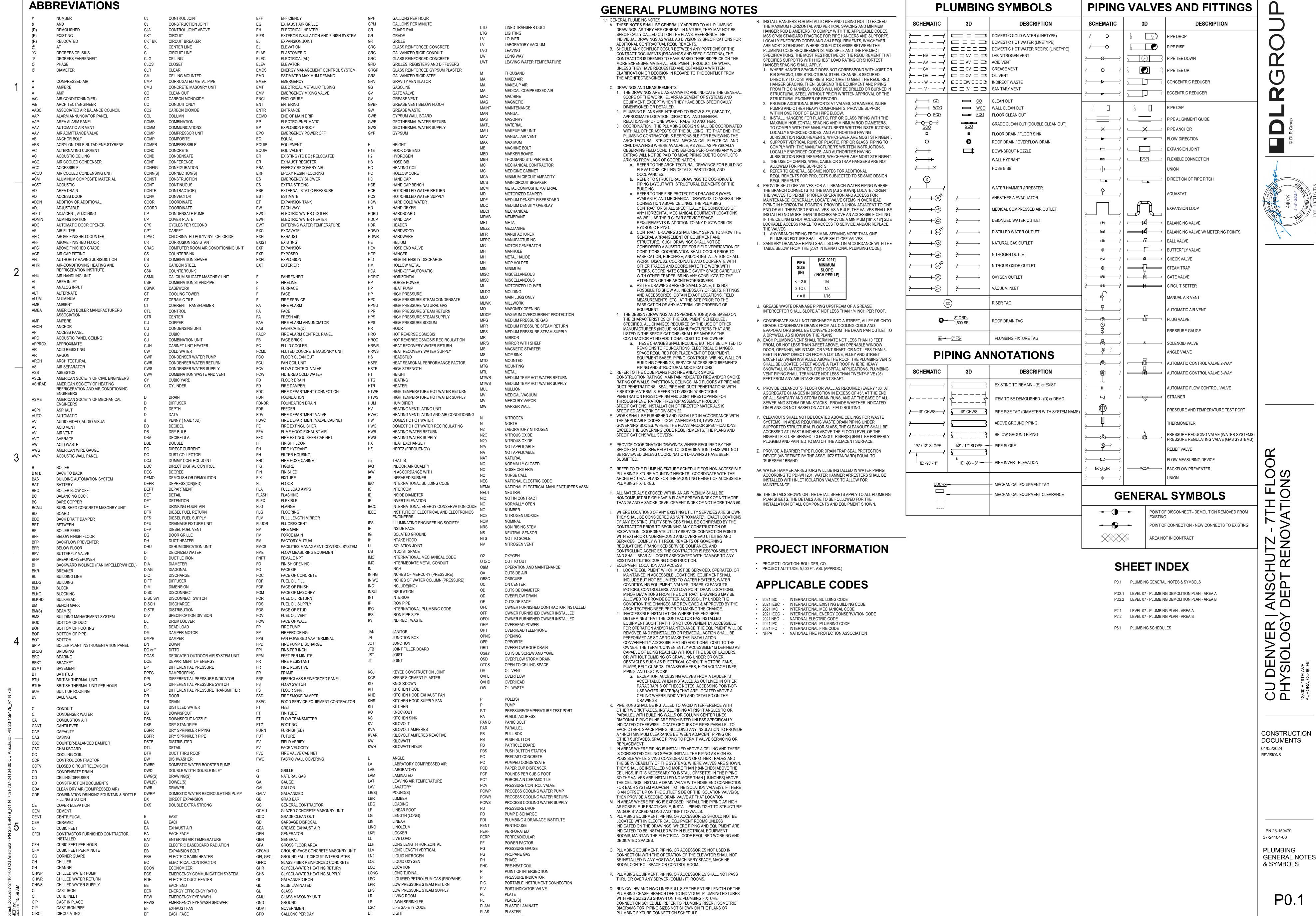
PN 23-159479

PROTECTION SYMBOLS & **ABBREVIATIONS**

FP0.1







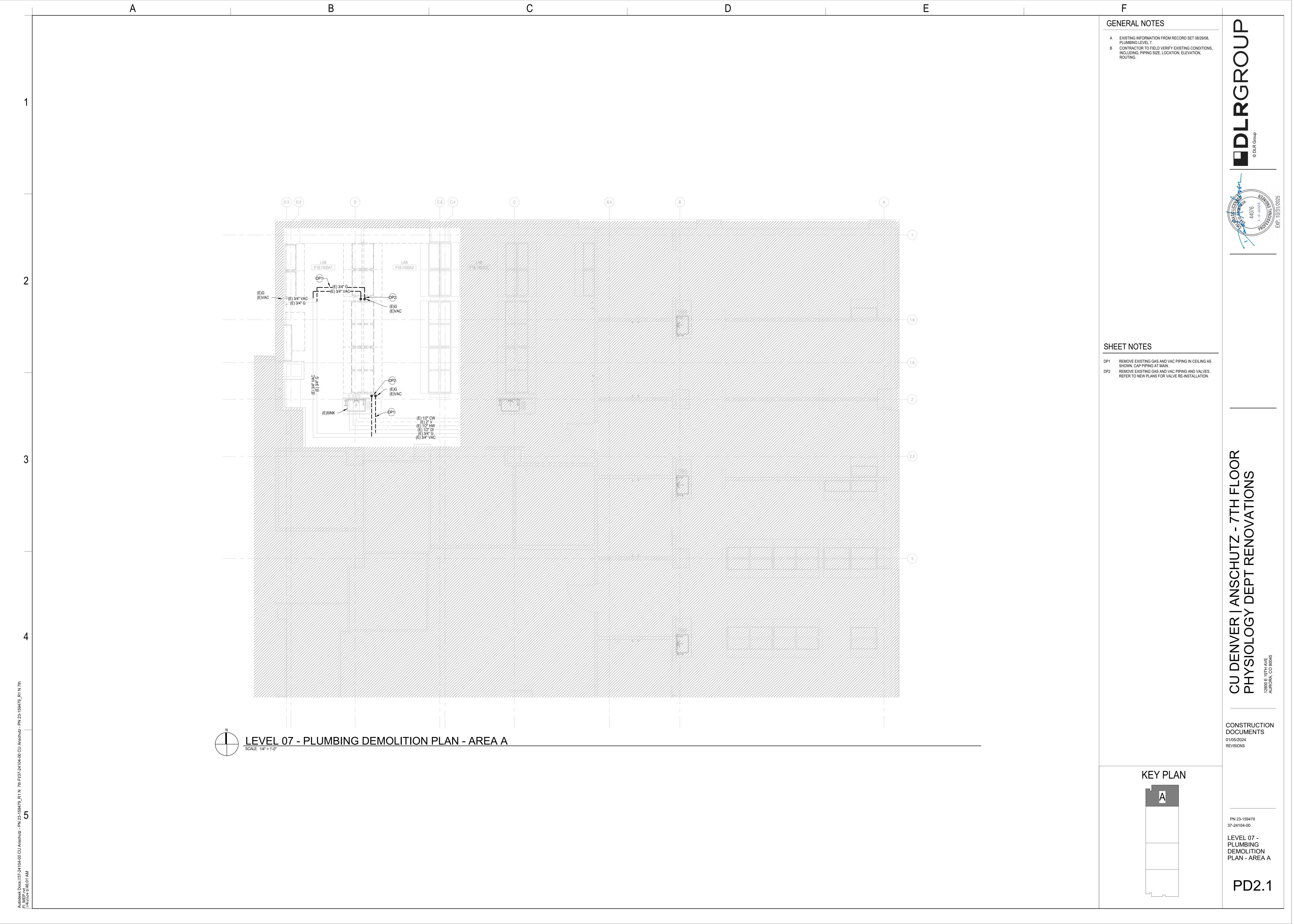
EACH FACE

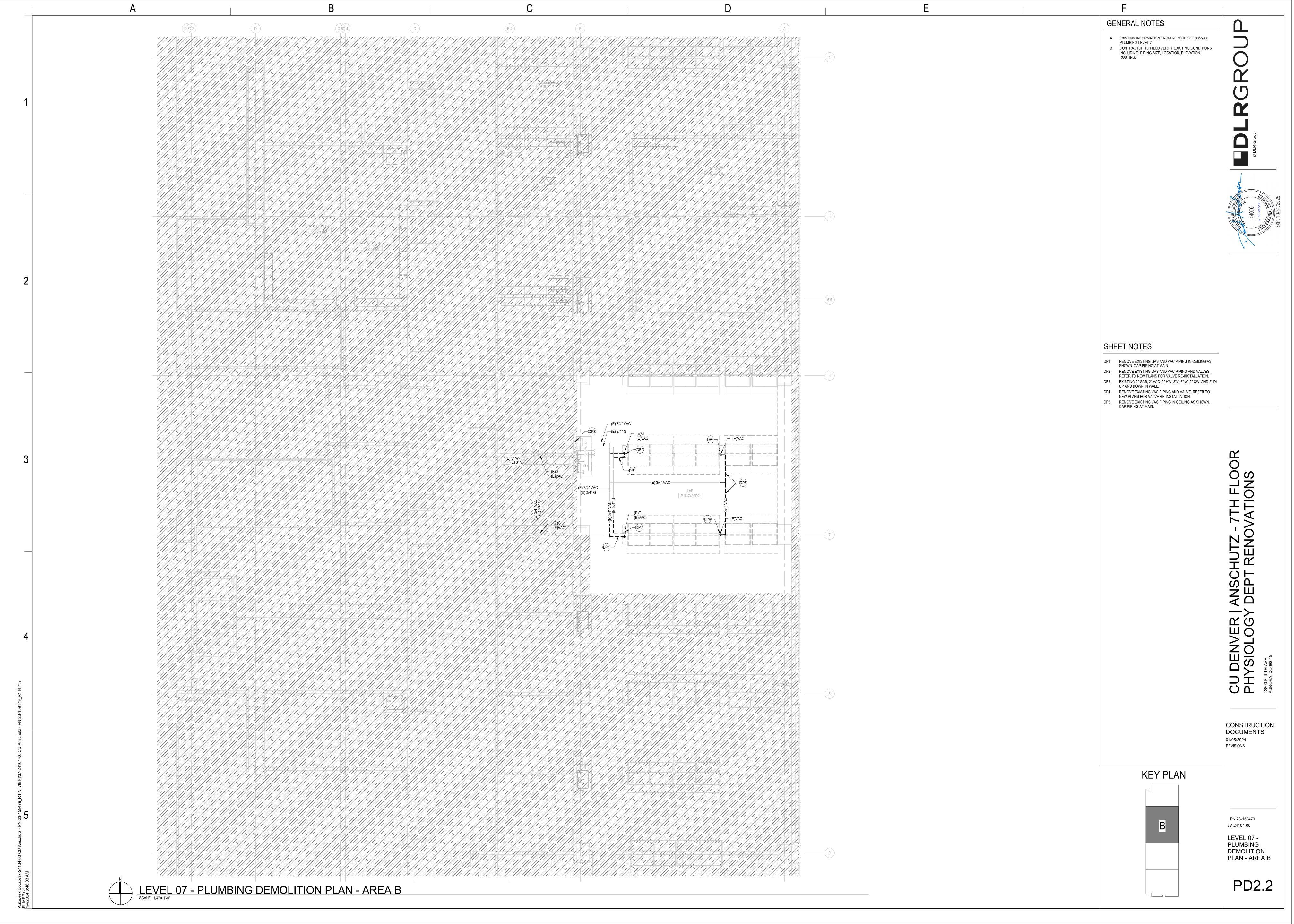
GPD

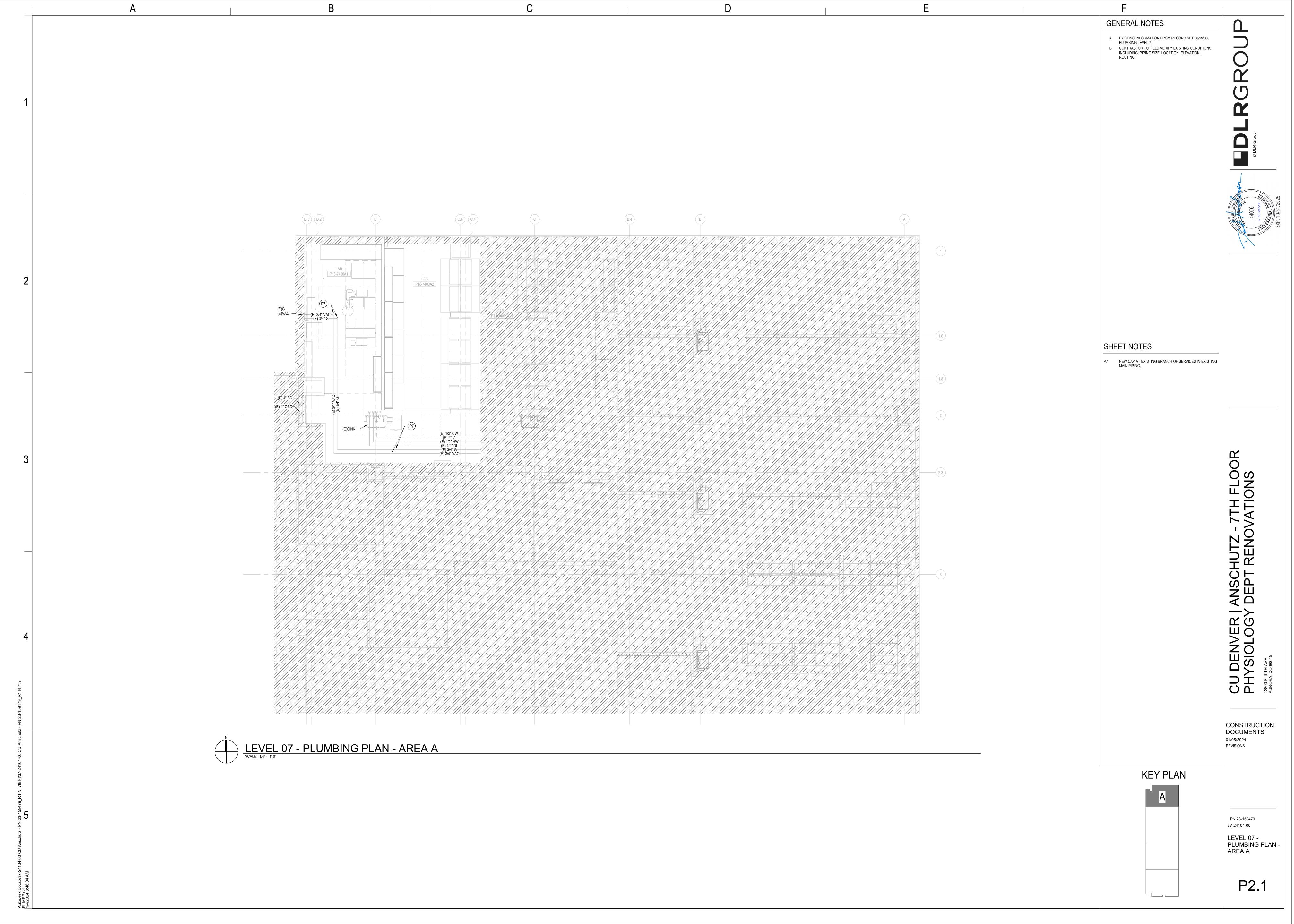
PLBG

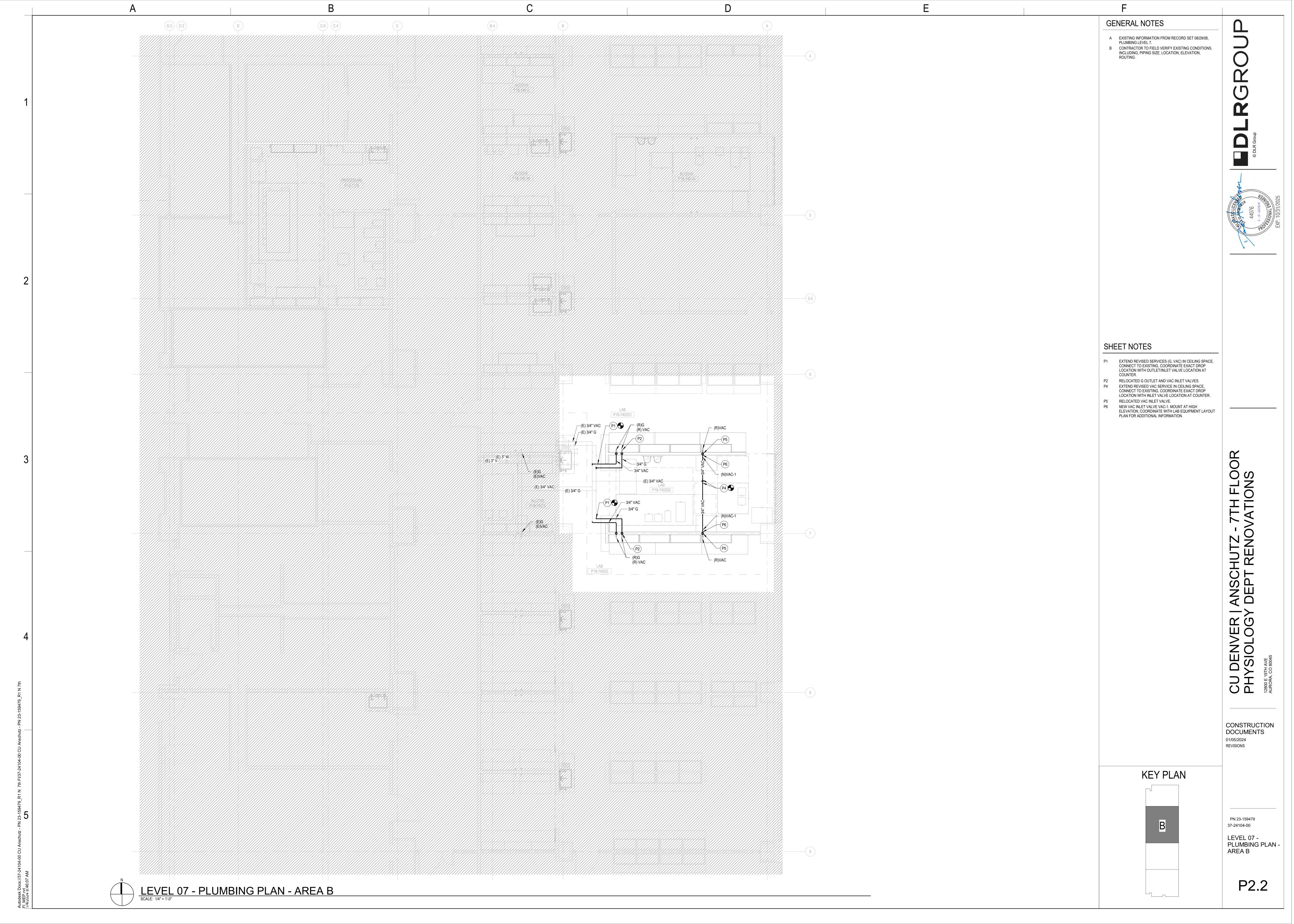
PLUMBING











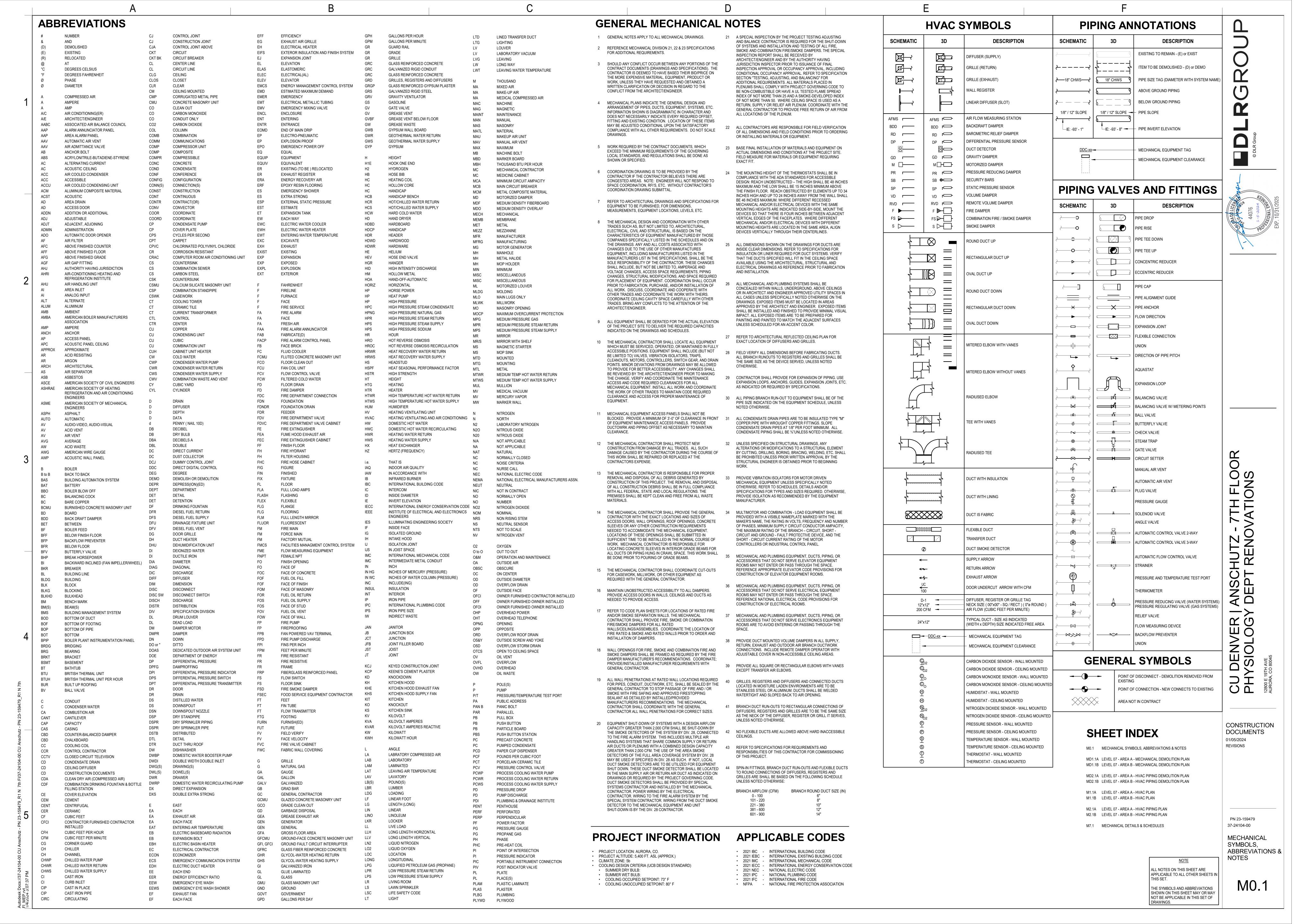
GENERAL PLUMBING FIXTURE SCHEDULE

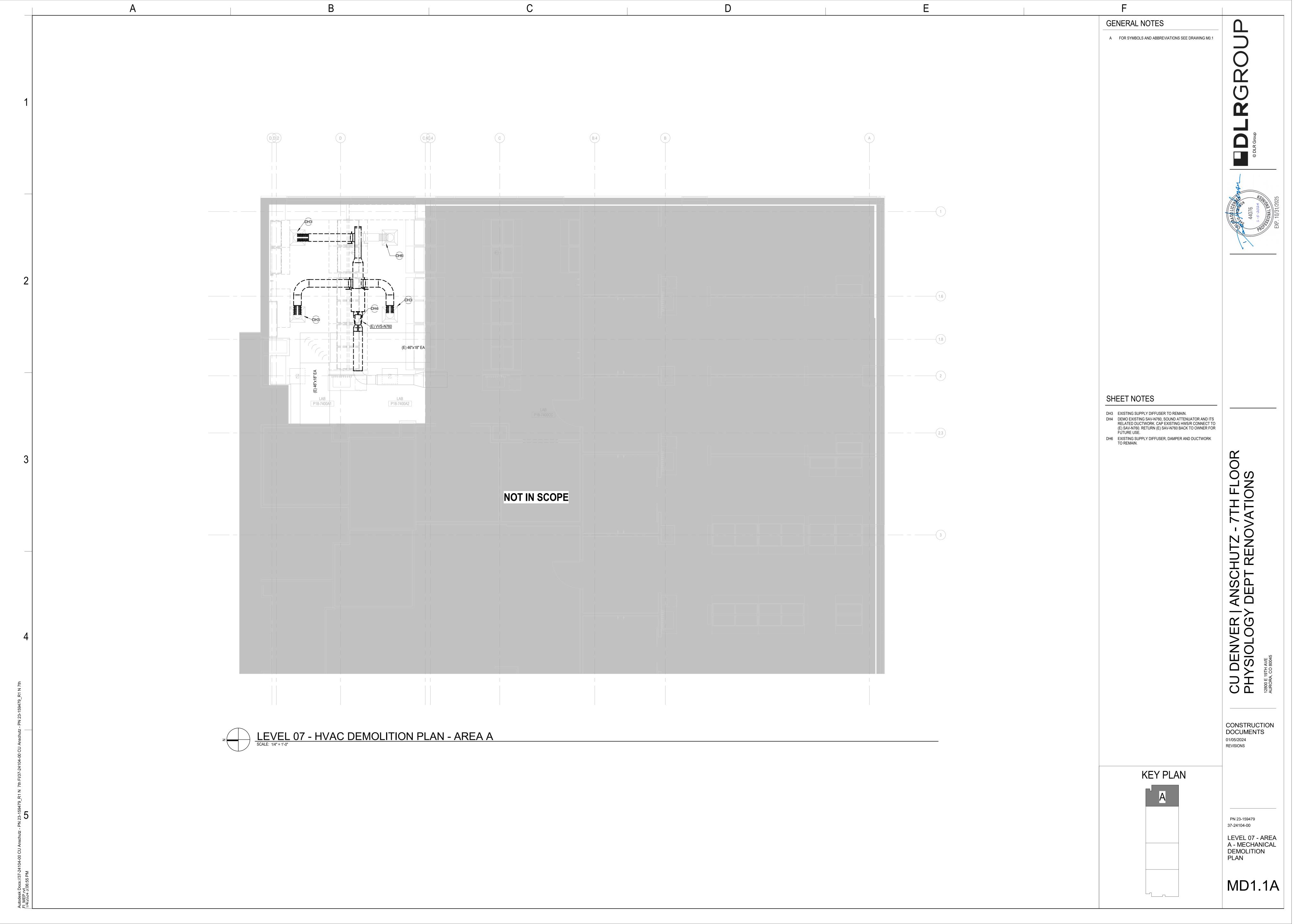
1. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL NOTATIONS AND INSTALLATION INSTRUCTIONS. REFER TO ARCHITECTURAL PLANS FOR MOUNTING ELEVATIONS.

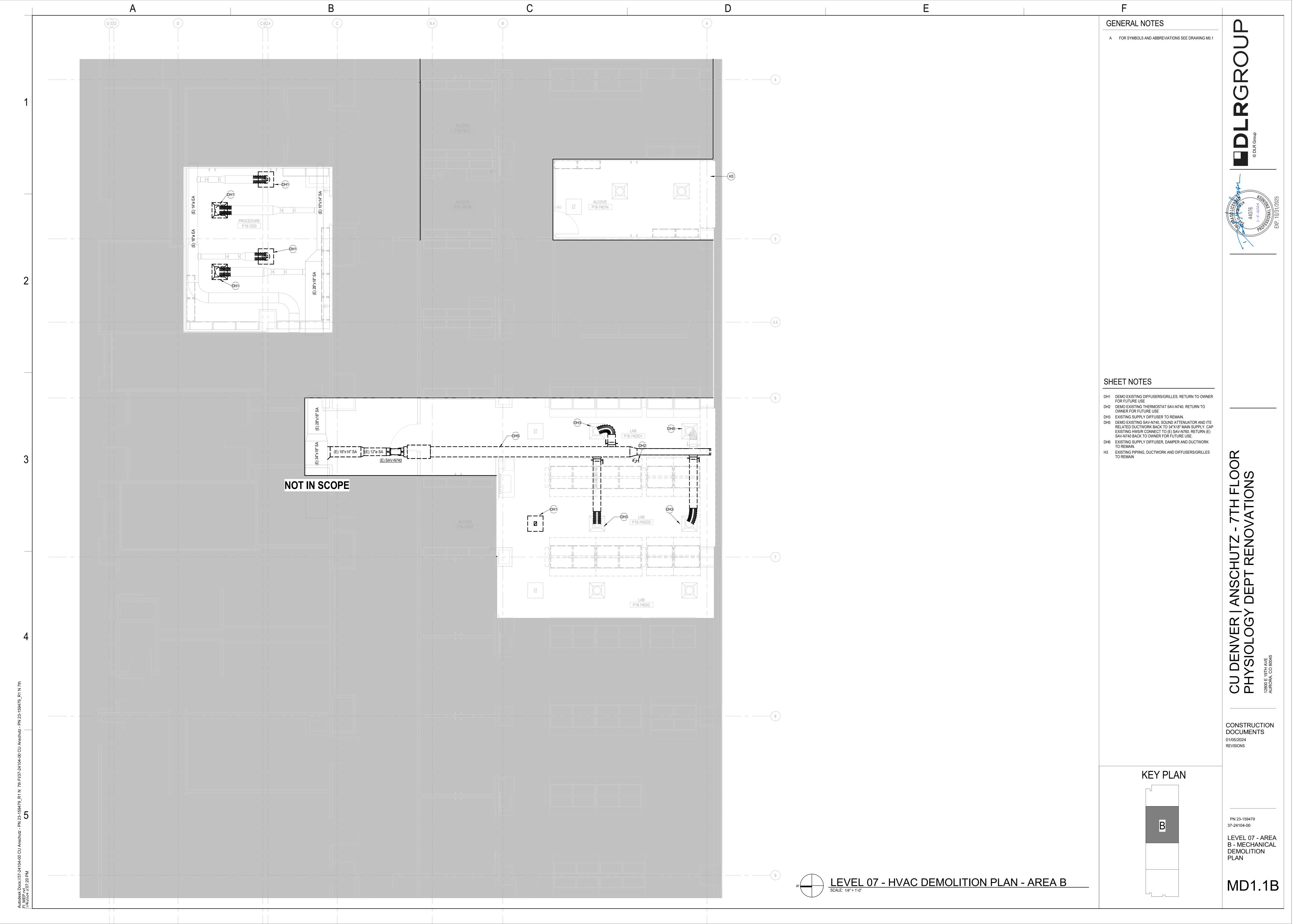
 VAC-1
 VACUUM INLET VALVE
 WATERSAVER
 L2880
 WALL MOUNTED
 4"x3"

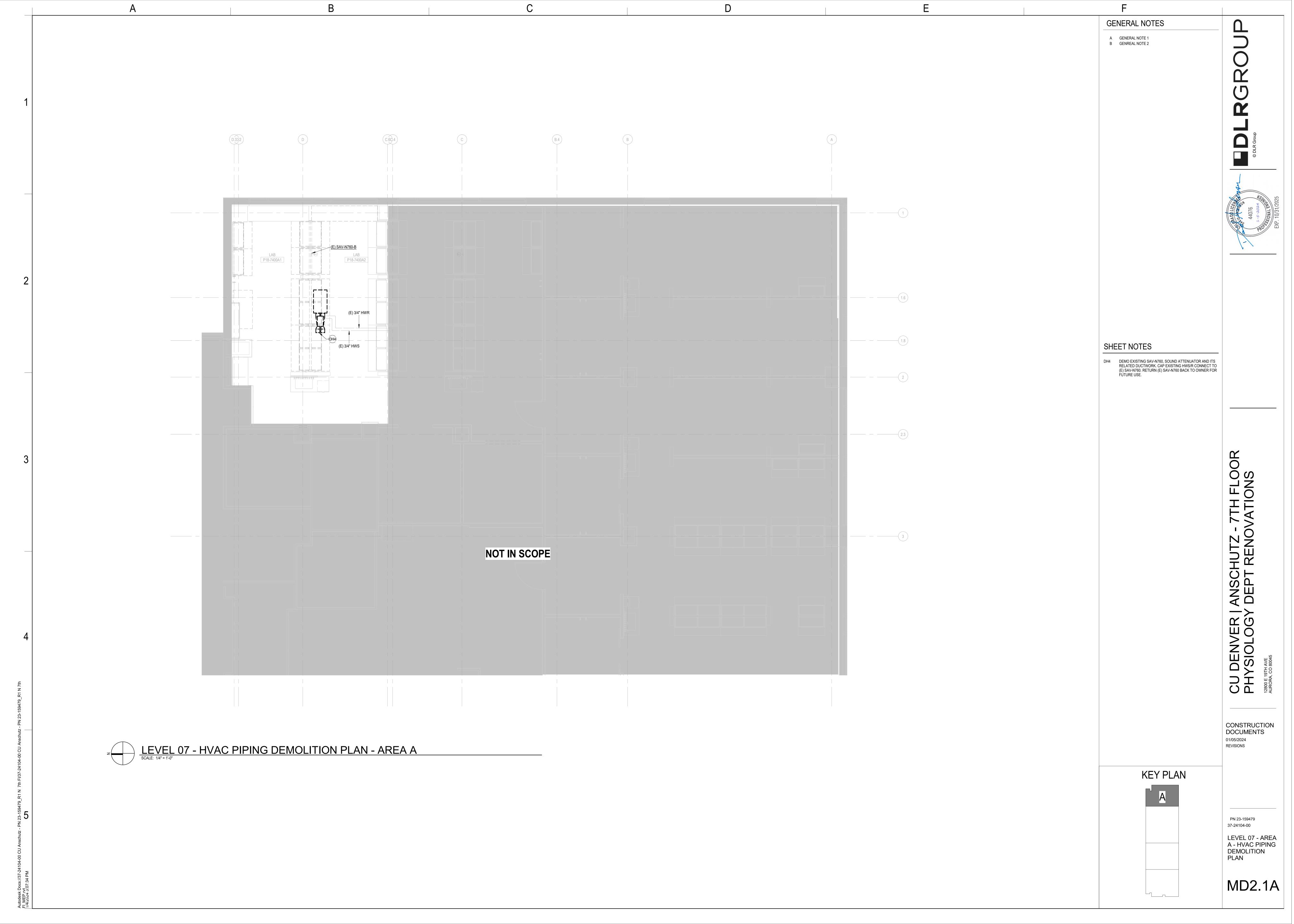
2. SERRATED NOZZLE, COLORED INDEX, BRASS HANDLE, BRASS BODY, WALL ESCUTCHEON.

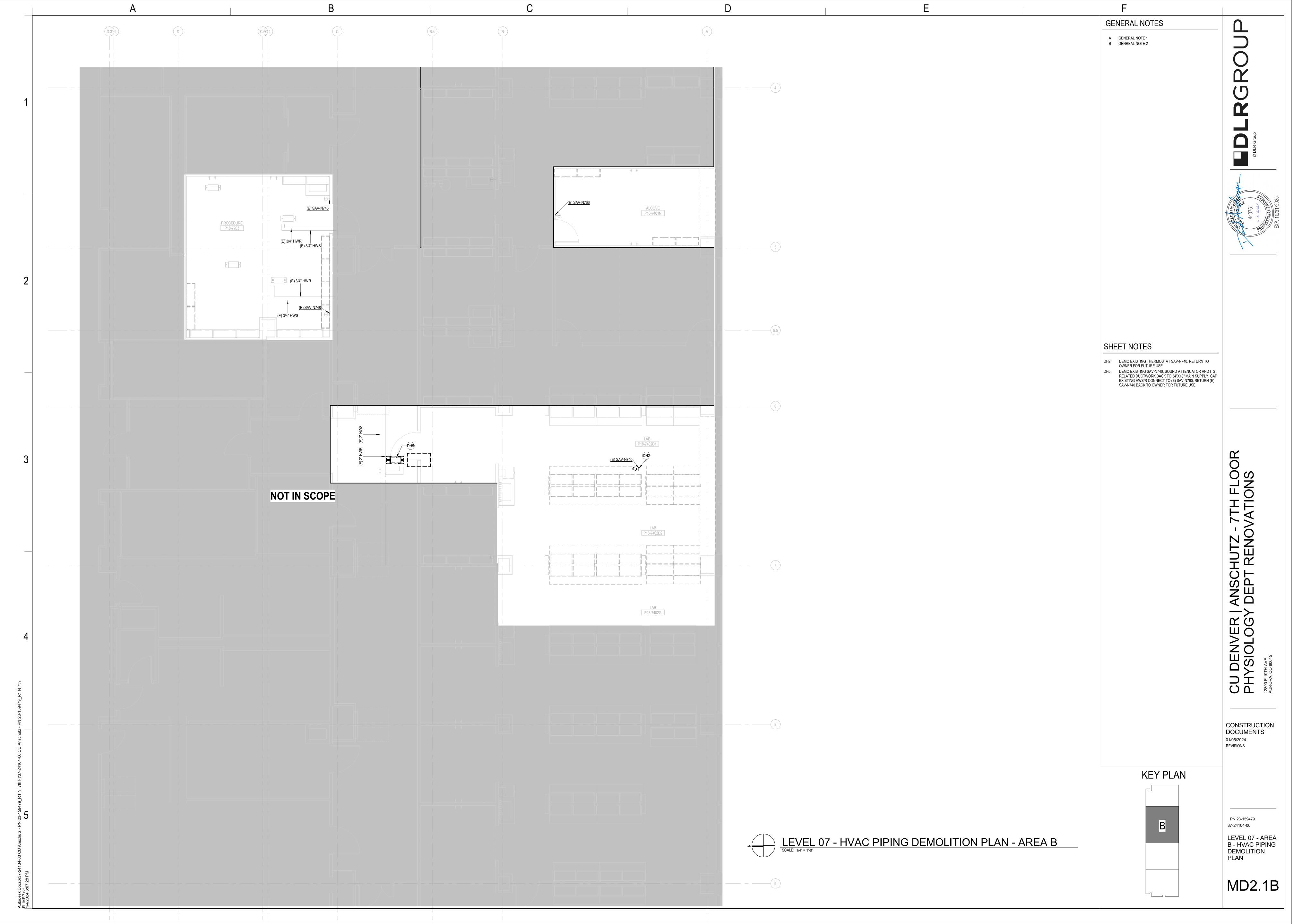
P6.1

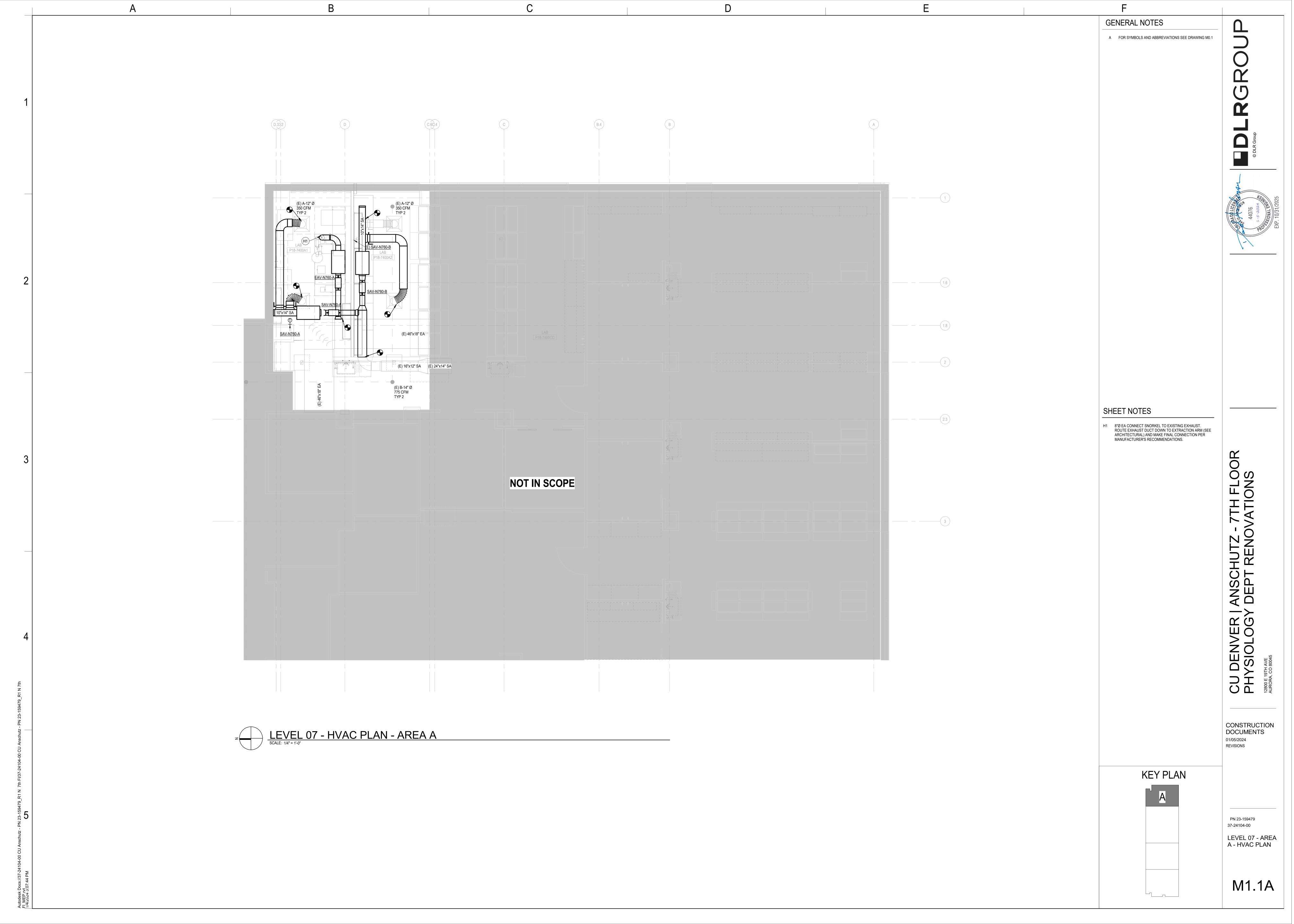


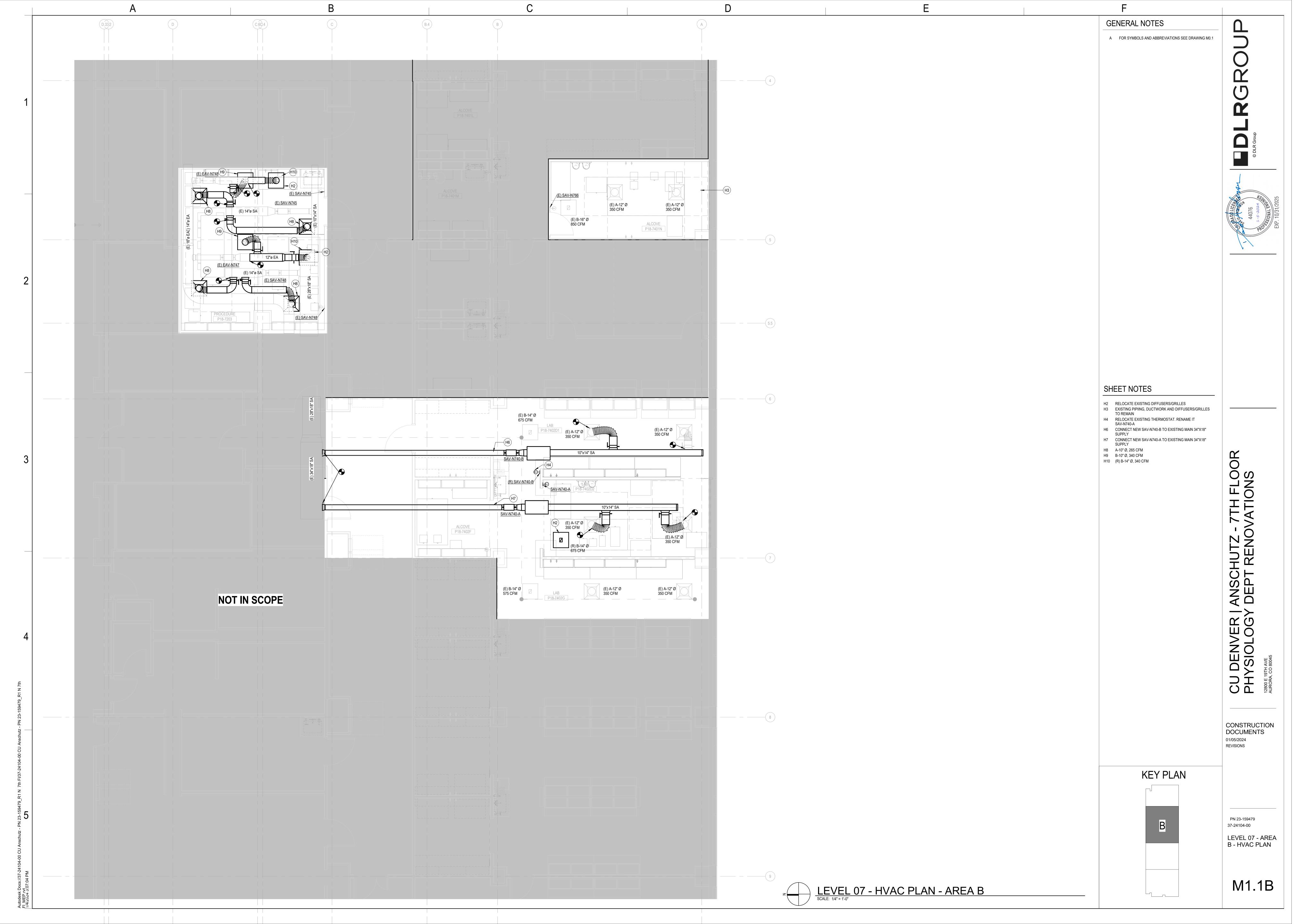


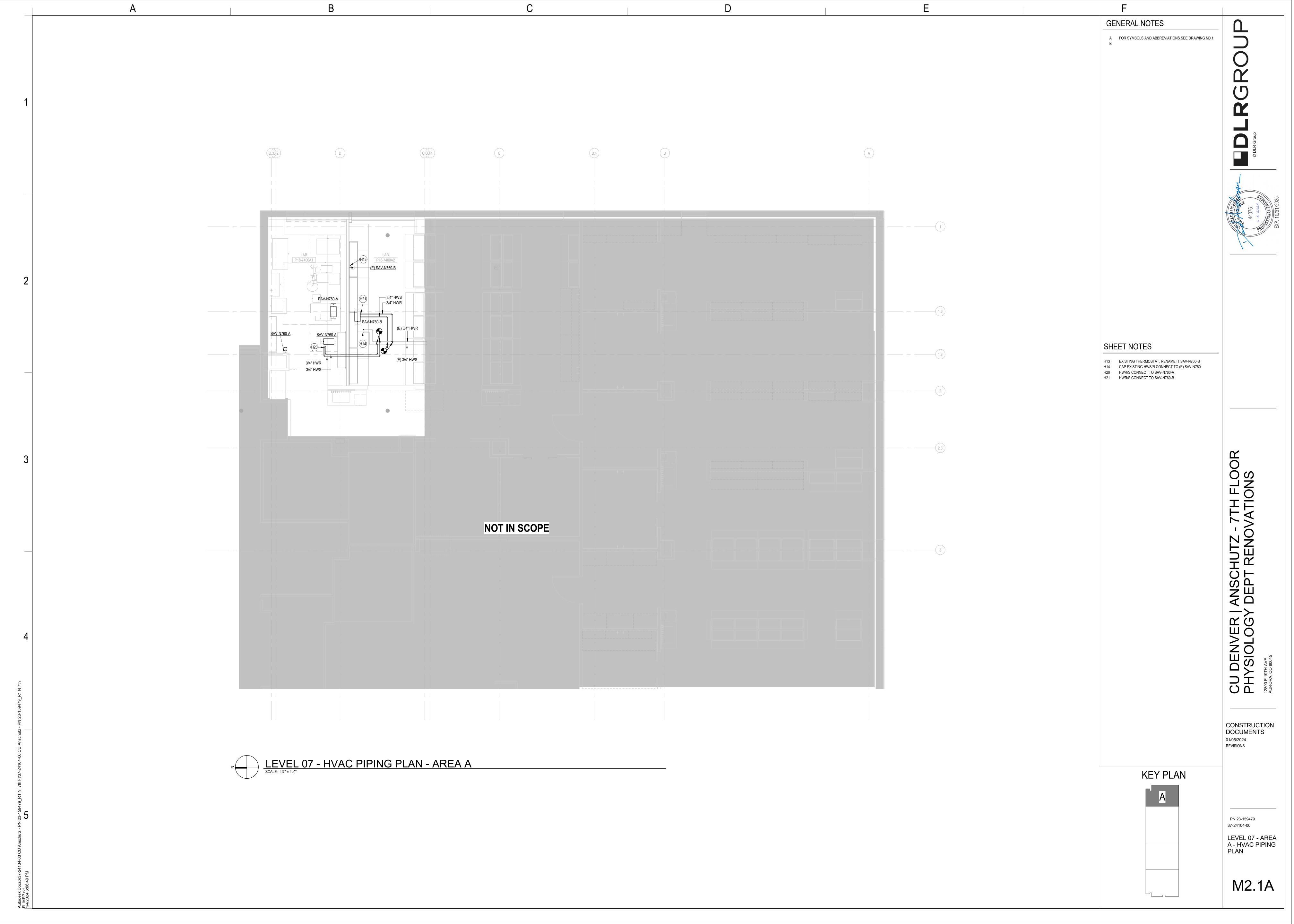


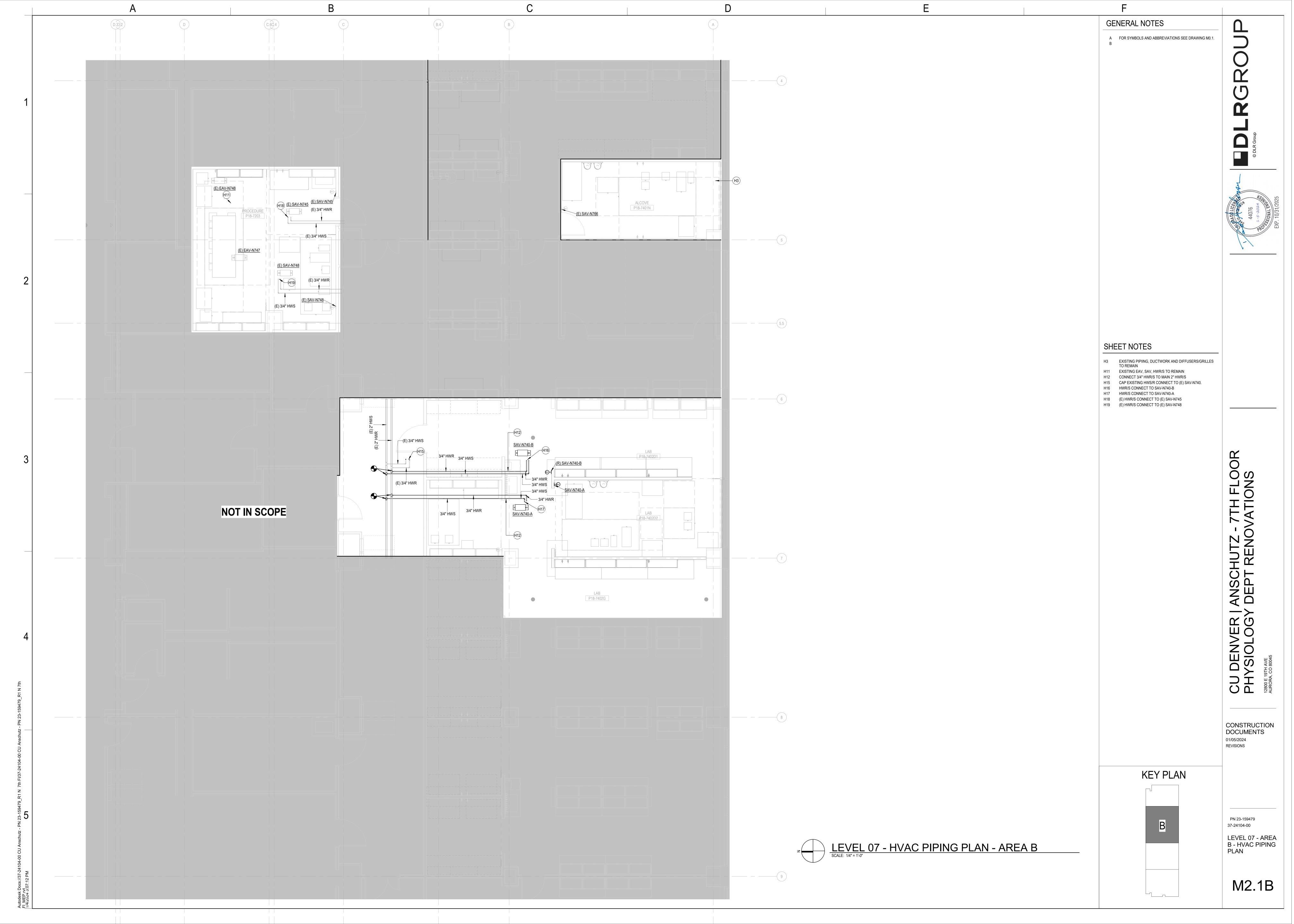


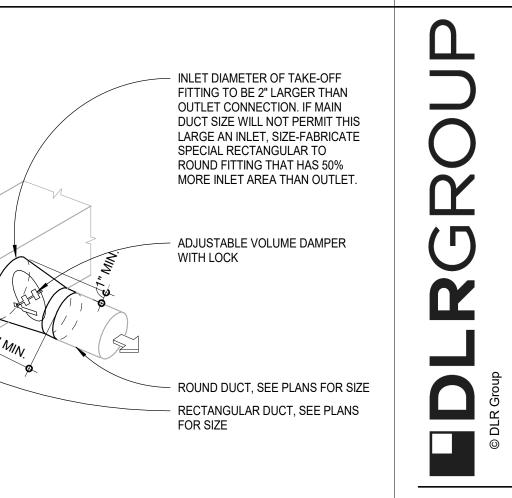












ACCOUSTICALLY LINED DUCT FLEXIBLE CONNECTION -**HEATING COIL** VAV AIR TERMINAL UNIT AIR INLET DUCT TRANSITION INDICATED ON PLANS

PROVIDE UNIFORM AIRFLOW AT TERMINAL UNIT INLET AND DISCHARGE. AVOID SHARP TURNS OR ENTRANCE CONDITIONS THAT CAUSE SYSTEM EFFECT. INSTALLATION REQUIREMENTS: (STRAIGHT DUCT, NOT TRANSITIONS, TAKE OFFS OR FITTINGS) $A = 3 \times D$ $B = 3 \times W$

NOTE:
INSULATE OVER COIL AND COIL HEADERS TO

PREVENT CONDENSATION WHEN IN COOLING MODE.

1E AIR TERMINAL UNITS - MOUNTING

1F DUCT TAKE-OFF TO DIFFUSER M7.1 NO SCALE

STRAP OR ANGLE ROD -ANGLE -- HANGER CLAMP OR BAND LONG FLAT SPANS ON OVAL DUCT -HAVE A TENDENCY TO SAG. OVAL DUCT WITH A MAJOR AXIS OF 42 INCHES OR MORE SHALL BE REINFORCED PER SMACNA HVAC CHANNEL OR ANGLE DUCT CONSTRUCTION STANDARDS TYPE 2.

BALANCING DAMPER

- BALANCING DAMPER

- CONICAL, BELL-MOUTH OR

RECTANGULAR TO ROUND TAKE-OFF.

RECTANGULAR SUPPLY AIR

DUCT (ROUND SIMILAR)

LAY-IN CEILING

— FLEXIBLE DUCT

LAY-IN CEILING

- CONICAL, BELL-MOUTH OR

RECTANGULAR TO ROUND TAKE-OFF.

- RECTANGULAR

SUPPLY AIR DUCT

(ROUND SIMILAR)

OPTION - B

1. DO NOT EXCEED ALLOWABLE LOAD LIMITS OF ANY OR ALL OF THE INDIVIDUAL TRAPEZE PARTS. 2. DO NOT PENETRATE DUCT OR DUCT INSULATION VAPOR BARRIER WHEN SECURING HANGERS TO DUCTWORK. EVENTUALLY THE PENETRATIONS WILL LEAK. 3. USE HANGER CLAMPS OR BANDS FOR ROUND DUCTS AS ROUND DUCT TENDS TO DEFORM ON TRAPEZE HANGERS. 4. TEARS, PUNCTURES, ETC. SHALL BE REPAIRED WITH TAPE OR MASTIC TO MAINAIN THE INTEGRITY OF THE VAPOR BARRIER. 5. DO NOT USE ANY STRAP HANGERS WITH SCREWS ON ANY DUCTWORK THAT IS EXTERNALY WRAPPED.

M7.1 NO SCALE

DUCTWORK HANGERS M7.1 NO SCALE

SINGLE WALL ROUND SHEETMETAL

DUCT (RUNOUT DUCT SIZE SHALL BE

SINGLE WALL ROUND SHEETMETAL

DUCT (RUNOUT DUCT SIZE SHALL BE

SAME ÀS DIFFUSER NECK DIAMETER

UNLESS NOTED OTHERWISE ON PLANS)

1D DIFFUSER DETAIL - LAY-IN

FLEXIBLE DUCT —

DRAWBAND----

ELBOW CL RADIUS

TO BE 1-1/2 TIMES

DUCT DIAMETER

LAY-IN DIFFUSER-

ELBOW CL RADIUS

TO BE 1-1/2 TIMES

DUCT DIAMETER

LAY-IN DIFFUSER

DRAWBAND

 \setminus M7.1 / NO SCALE

BALANCING DAMPER

- BALANCING DAMPER

TO RECTANGULAR ENTRY.

1/2" (15 MM) DIA. HANGER

- 1 5/8" (43 MM) 12 GAGE

CHANNEL OR 2"x2"x1/4" (50x50x8 MM) ANGLE

RODS WITH 36" (900 MM) MAX. SPACING ON EACH CHANNEL

LAY-IN CEILING

FLEXIBLE DUCT

LAY-IN CEILING

6" PLENUM

SIDE VIEW TRAPEZE HANGER FOR UP

TO 1000 LB. (453 KG) UNIFORM LOAD

TO RECTANGULAR ENTRY.

- CONICAL, BELL-MOUTH OR ROUND

RECTANGULAR

CONICAL, BELL-MOUTH OR ROUND

RETURN/EXHAUST AIR

DUCT (ROUND SIMILAR)

✓ RECTANGULAR

RETURN/EXHAUST AIR

DUCT (ROUND SIMILAR)

OPTION - B

SAME AS DIFFUSER NECK DIAMETER

UNLESS NOTED OTHERWISE ON PLANS)

SINGLE WALL ROUND SHEETMETAL DUCT—

(RUNOUT DUCT SIZE SHALL BE SAME AS

GRILLE NECK DIAMETER UNLESS NOTED

SINGLE WALL ROUND SHEETMETAL DUCT-

(RUNOUT DUCT SIZE SHALL BE SAME AS

GRILLE NECK DIAMETER UNLESS NOTED

1C GRILLE DETAIL - LAY-IN

PROVIDE INSULATION SHIELD AND

1" (25 MM) MAX. -

ADJUSTABLE CLEVIS HANGER

TYPE 43 - SEE SPECIFICATIONS

5 FT (1.8) (2.1) (2.4) (2.4) (2.7) (3.0) (3.7) (4.0) (4.1) (4.9)

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

MAXIMUM PIPE/TUBING SUPPORT SPACING

NOM. SIZE IN. THRU 3/4 1 11/4 11/2 2 21/2 3 4 5 6 8 10 12 14 16 18 20 24 (MM) THRU (20) (25) (32) (40) (50) (65) (75) (100) (125) (150) (200) (250) (300) (350) (450) (450) (500) (600)

PIPE (M) (2.1) (2.1) (2.1) (2.7) (3.0) (3.4) (3.7) (4.1) (4.9) (5.2) (5.8) (6.7) (7.0) (7.6) (8.2) (8.5) (9.1) (9.6) (M) (5.7) (M) (5.7) (1.8) (2.1) (

INSERT FOR ALL PIPING (8" (200MM) MIN.

OTHERWISE ON PLANS)

FLEXIBLE DUCT ——

ELBOW CL RADIUS TO-

OTHERWISE ON PLANS)

ELBOW CL RADIUS

TO BE 1-1/2 TIMES

DUCT DIAMETER

DRAWBAND

LAY-IN GRILLE -

M7.1 NO SCALE

BE 1-1/2 TIMES DUCT

DRAWBAND---

DIAMETER

LAY-IN GRILLE -

								HE	ATING C	OIL			
		MANUFACTURER/	DESIGN A	AIRFLOW	VALVE CA	APACITY						SOUND	
MARK	AREA SERVED	MODEL NO.	MAX	MIN	MAX	MIN	CFM	CAP.	GPM	APD	WPD	ATTENUATOR	NOTES
								MBH		W.C.	FT	DESIGNATION	
SAV-N760-A	LAB P18-7400A1	SIEMEN SUPPLY AIR TERMINAL 08	700	375	1,120	130	375	12	1.2	0.4	2.5	SA-A	1,2,3,4,5
SAV-N760-B	LAB P18-7400A2	SIEMEN SUPPLY AIR TERMINAL 08	700	375	1,120	130	375	12	1.2	0.4	2.5	SA-A	1,2,3,4,5
EAV-N760-A	LAB P18-7400A1	SIEMEN EXHAUST AIR TERMINAL 08	310	141	1,120	130	-	-	-	-	-	SA-C	1,2,3,4,5
(E) SAV-N745	PROCEDURE P18-7203	(E) SIEMEN SUPPLY AIR TERMINAL	-	-	-	-	-	-	-	-	-	-	6
(E) SAV-N748	PROCEDURE P18-7203	(E) SIEMEN SUPPLY AIR TERMINAL	-	-	-	-	-	-	-	-	-	-	6
(E) EAV-N748	PROCEDURE P18-7203	(E) SIEMEN EXHAUST AIR TERMINAL	-	-	-	-	-	-	-	-	-	-	6
(E) EAV-N747	PROCEDURE P18-7203	(E) SIEMEN EXHAUST AIR TERMINAL	-	-	-	-	-	-	-	-	-	-	6
SAV-N740-A	LAB P18-7402D1	SIEMEN SUPPLY AIR TERMINAL 08	700	375	1,120	130	375	12	1.2	0.4	2.5	SA-A	1,2,3,4,5
SAV-N740-B	LAB P18-7402D1	SIEMEN SUPPLY AIR TERMINAL 08	700	375	1,120	130	375	12	1.2	0.4	2.5	SA-A	1,2,3,4,5

I. CONTROLS SHALL BE BY SIEMENS, INSTALLED AT THE FACTORY.

2. MOUNT WITH 1/5 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX, VERIFY WITH MANUFACTURER.

3. EWT = 180 F, LWT = 160 F

I. PROVIDE 2 WAY, MODULATING CONTROL VALVES ON HEATING COILS. 5. PROVIDE SOUND ATTENUATOR FOR VALVE AS SCHEDULED AND SHOWN ON DRAWINGS.

6. EXISTING SAV/EAV TO REMAIN

							0	CTAVE	BAND	Hz						MAX.	
				FACE	DYNAMIC INSERTION LOSS, 13/16B				SIZE			PRESS.					
CODE	MANUFACTURER./			VELOCITY		SEI	F-NOI:	SE POV	VER LEY	VELS, 13	ИвВ		MDTH	HEIGHT	LENG.	DROP	
(SA)	MODEL NO.	SYSTEM	CFM	(FPM)	63	125	250	500	1K	2K	4K	8K	(IN)	(IN)	(IN)	(" WC)	REMARKS
2-11	IAC 3LFS	CONFERENCE	4,320	720	9	14	24	27	25	19	16	14	36	24	36	0.30	
		RETURN			45	42	45	43	45	49	44	37					
2-12	IAC 3LFS	CONFERENCE	2,000	667	9	14	24	27	25	19	16	14	24	18	36	0.30	
		RETURN			45	42	45	43	45	49	44	37					
2-13	IAC 3LFS	CONFERENCE	3,000	600	9	14	24	27	25	19	16	14	30	24	36	0.30	
		RETURN			45	42	45	43	45	49	44	37					
1-01	IAC 3L	LAB GENERAL	56,000	2,000	4	5	9	14	20	18	13	8	84	48	36	0.20	
		EXHAUST			48	47	47	46	53	52	43	31					
1-02	IAC 3L	LAB GENERAL	56,000	2,000	4	5	9	14	20	18	13	8	84	48	36	0.20	
		EXHAUST			48	47	47	46	53	52	43	31					
1-03	IAC 3L	LAB GENERAL	53,200	1,773	4	5	9	14	20	18	13	8	72	60	36	0.20	
		EXHAUST			48	47	47	46	53	52	43	31					
1-04	IAC 3L	LAB GENERAL	53,200	1,773	4	5	9	14	20	18	13	8	90	48	36	0.20	
		EXHAUST			48	47	47	46	53	52	43	31					
- 02	IAC 3L	LAB GENERAL	56,000	2,000	4	5	9	14	20	18	13	8	84	48	36	0.20	
		EXHAUST			48	47	47	46	53	52	43	31					
-03	IAC 3L	LAB GENERAL	53,200	1,773	4	5	9	14	20	18	13	8	72	60	36	0.20	
	110 5151	EXHAUST	405.000	4 407	48	47	47	46	53	52	43	31	450	400		0.47	
R-04	IAC 5LFM	LAB GENERAL	185,000	1,423	9	13	23	28	27	17	13	12	156	120	60	0.43	
	110 770	EXHAUST		4 222	50	42	46	44	44	45	39	33					
A	IAC 3TXL	SAV		1,000	13	15 20	25 25	14 25	23	7 20	6 20	4	21	21	36	0.20	A
В	IAC 3TVI	SUPPLY		1.000	4	8	16	16	7	7	5	20 3	- 01	21	36	0.32	8" INLET
В	IAC 3TXL	SUPPLY		1,000	20	20	25	25	23	20	20	20	21	21	36	0.32	A 12" INLET
С	IAC 3TXL	EAV		1,000	13	15	25	14	8	7	6	4	21	21	36	0.20	A A
C	IAC STAL	EXHAUST		1,000	20	20	25	25	23	20	20	20	- 21	21	36	0.20	8" INLET
D	IAC 3TXL	EAV		1,000	4	8	16	16	7	7	5	3	21	21	36	0.32	A
U	IAC STAL	EXHAUST		1,000	20	20	25	25	23	20	20	20	- 21	21	30	0.32	12" ÎNLET
E	IAC 3KL	SAV	2,900	1,160	4	5	13	11	7	7	6	4	24	15	36	0.30	A
_	INC SKL	SUPPLY	2,800	1,100	36	36	38	43	49	46	38	35	27	"	50	0.50	l ^
F	IAC 3KL	EAV	2,245	898	4	6	14	12	8	7	7	6	24	15	36	0.25	Α
'	INC SKL	EXHAUST	2,240	000	38	38	42	47	51	48	41	35	27	"	00	0.20	_ ^
G	IAC 8TXL	RACK FAN/	165	210	5	8	17	20	13	10	11	8	21	21	36	0.05	Α
•	ING OTHE	EAV	100	2.0	54	47	45	45	49	50	45	34	-		"	0.00	12" INLET
		2117	_				-10	-10	1.0		-10				_		120 111221

	GRILLE REGISTER DIFFUSER SCHEDULE												
	MANUFACTURER/												
CODE	MODEL NO.	SERVICE	TYPE	ACCESSORIES	FACE SIZE	REMARKS							
Α	TITUS PAS	SUPPLY	PERFORATED		24 X 24	Α							
В	TITUS PAR	RETURN / EXHAUST	PERFORATED		12 X 12 OR 24 X 24	А, В							
С	TITUS ML	SUPPLY	SLOT	LINED PLENUM	SEE DRAWINGS	A, D, E							
D	TITUS 23R	RETURN / EXHAUST	LOUVERED	O.B.D.	SEE DRAWINGS								
F	TITUS 272FS	SUPPLY	LOUVERED	O.B.D.	SEE DRAWINGS								
G	TITUS 50	RETURN / EXHAUST	EGG CRATE		SEE DRAWINGS								
Н	TITUS 350ZFL	RETURN / EXHAUST	LOUVERED	O.B.D.	SEE DRAWINGS								
I	TITUS TRITEC	SUPPLY	LAMINAR FLOW		24 X 48	С							
J	TITUS TRITEC	SUPPLY	LAMINAR FLOW		24 X 24	С							
K	TITUS CT-480	EXHAUST	SLOTTED		SEE DRAWINGS	F							
L	TITUS SG-SD	SUPPLY/EXHAUST	PERFORATED		SEE DRAWINGS	G, H, I							

GENERAL NOTES . SEE PLANS FOR CFM AND NECK SIZE. 2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 25 UNLESS OTHERWISE NOTED. 3. COLOR TO BE COORDINATED WITH ARCHITECT. 4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED.

5. PROVIDE BALANCING DEVICE FOR ALL GRD'S UNLESS OTHERWISE NOTED.

5. DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE ON PLANS. . PROVIDE CABLE ACTUATOR (SUCH AS YOUNG REGULATOR) AT ALL LOCATIONS WHERE BALANCING DEVICE IS INACCESSIBLE REMARK NOTES

A. IN CONFERENCE ROOMS, MAXIMUM NC SHALL BE 20. 3. GRILLES WITH 100 CFM OR LESS AND INSTALLED IN GYP CEILING, MAY HAVE 12 X 12 OR 24 X 24 FACE. ALL OTHERS SHALL BE 24 X 24 FACE. C. DIFFUSERS SHALL BE 2-WAY THROW UNLESS NOTED OTHERWISE ON PLANS. D. DIFFUSERS SHALL BE 1" WIDE, 3-SLOT UNLESS NOTED OTHERWISE ON PLANS. PROVIDE EITHER FACTORY OR FIELD PLENUM. . WHERE SLOT DIFFUSERS ARE SHOWN WALL TO WALL, CONTRACTOR SHALL VERIFY EXACT LENGTHS AND FIELD CUT AS REQUIRED. . CLEAR ANODIZED FINISH. B. MAXIMUM SECURITY GRILLE WITH 3/16" INCH PERFORATIONS.

. PAINT SHALL PASS 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST, 250 HOUR ASTM D870 WATER IMMERSION TEST, AND ASTM D2794 REVERSE IMPACT CRACKING TEST WITH 50 INCH-POUND FORCE. со<u>в^3</u>8а FUTURE WORK. NOT IN CONTRACT.

- HINGE SIDE

LIGHT SWITCH

NOTE:
WHEN ABOVE MOUNTING PROCEDURE IS IMPOSSIBLE, HINGE SIDE

MOUNTING WILL BE PERMITTED WITH APPOX. 6" CLEARANCE FROM

SWITCH. IF NEITHER INSTALLATION IS POSSIBLE, SWITCHES AND

CONTROLS SHALL BE LOCATED AS DIRECTED BY ENGINEER. DO NOT

THERMOSTAT AND SWITCH MOUNTING DETAIL

EXPOSED DUCTWORK & PIPING IN FINSHED SPACES

2A DUCT/PIPE WALL PENETRATIONS

EDGE OF DOOR (IN OPEN POSITION) TO EDGE OF THERMOSTAT & LIGHT

OR SWITCHES

INSTALL ABOVE DIMMER SWITCHES

M7.1 NO SCALE

M7.1 NO SCALE

OF DOOR

- THERMOSTAT

HUMIDISTAT

(IF REQUIRED)

- BUILDING WALL INTERIOR

SLEEVE IN MASONRY WALL (TYP)

SATIN FINISH OR ALUMINUM

SPLIT-TYPE ESCUTCHEON

GALV. STEEL DRAWBAND TYPE ESCUTCHEON, 3" WIDE

- SEAL ALL WALL PENETRATIONS (TYP)

RECTANGULAR DUCTWORK

- PIPING & INSULATION

- ROUND DUCTWORK

- FLOOR

THERMOSTAT,

CONTROL

ADJUSTABLE CLEVIS HANGER

TYPE 1 - SEE SPECIFICATIONS

TYPICAL PIPE HANGERS

M7.1 NO SCALE

M7.1 NO SCALE

SWITCH, OUTLET,

1B CONTROL DEVICE MOUNTING DETAIL

HANGER ROD -

INSULATION (VAPOR BARRIER TYPE IS

PROVIDE HIGH COMPRESSIVE

STRENGTH INSULATION (9 PCF MIN. DENSITY) UNDER INSULATION SHIELD

INSULATION SHIELD AT HANGAR

REQUIRED FOR LOW TEMPERATURE PIPE

CONSTRUCTION DOCUMENTS

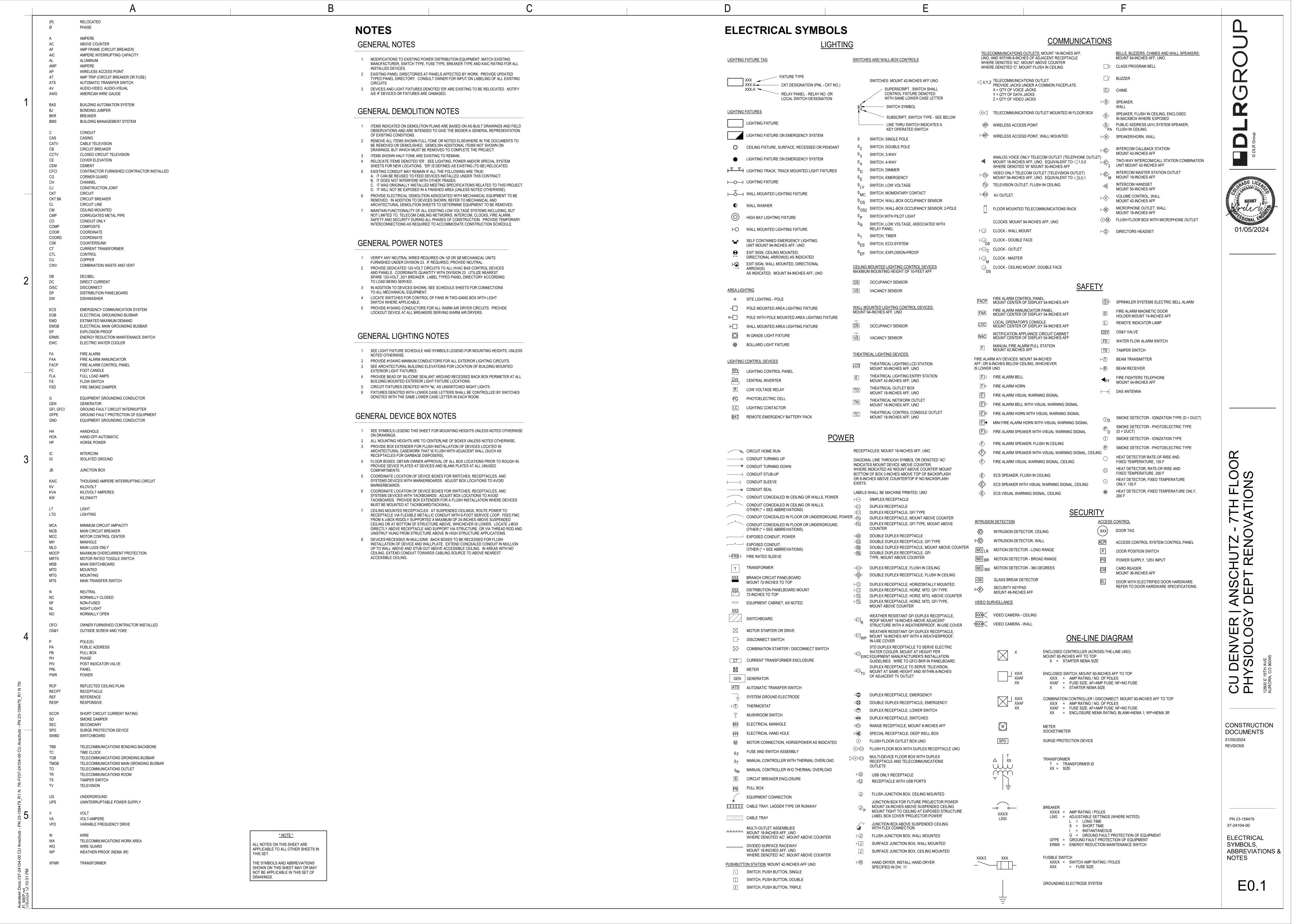
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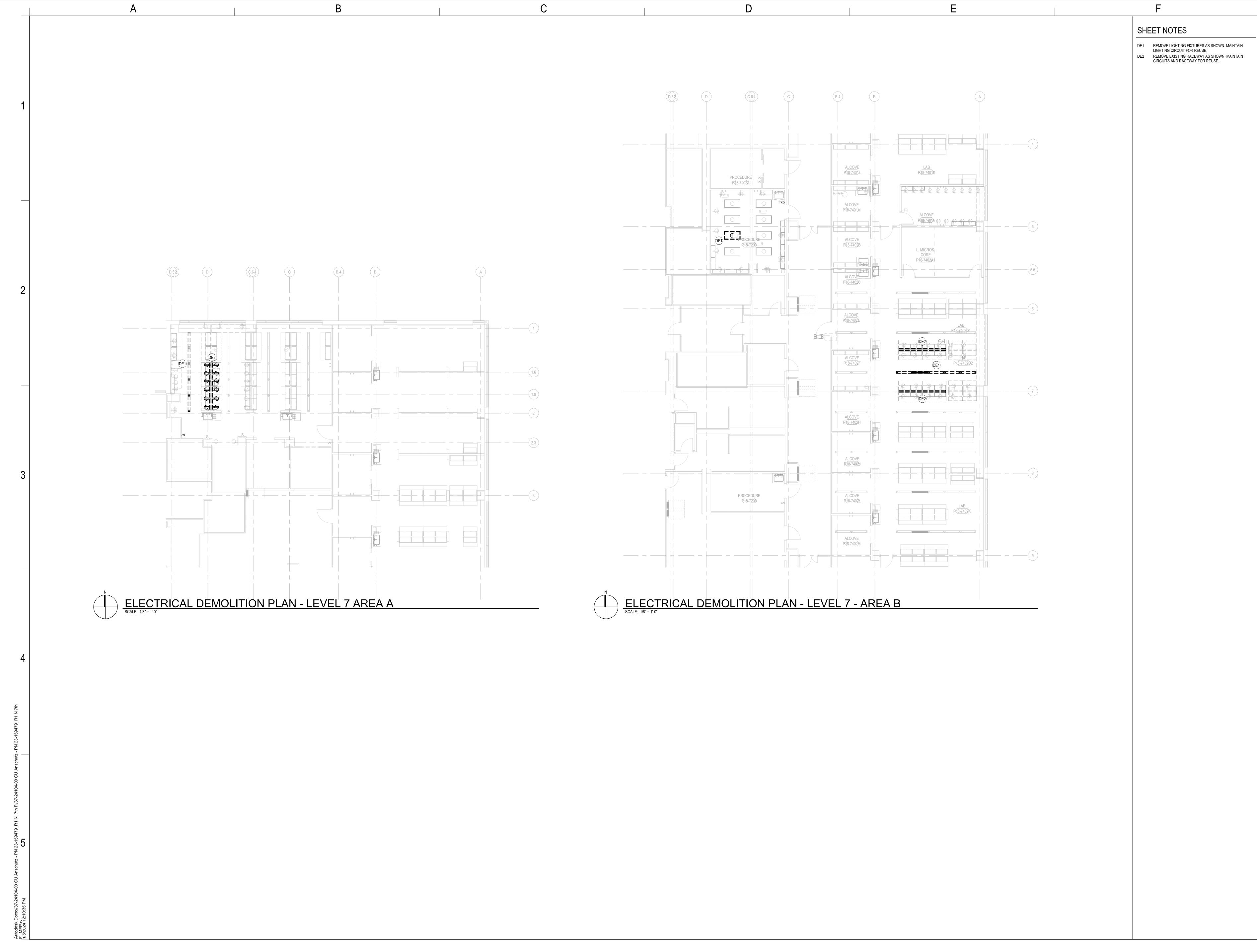
REVISIONS

PN 23-159479

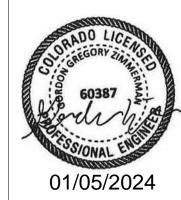
MECHANICAL **DETAILS &** SCHEDULES

37-24104-00





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CU DENVER | ANSCHUTZ - 7TH FLOOR PHYSIOLOGY DEPT RENOVATIONS

12800 E 19TH AVE
AURORA, CO 80045

CONSTRUCTION DOCUMENTS 01/05/2024 REVISIONS

PN 23-159479 37-24104-00 LEVEL 01 -DEMOLITION PLAN

ED1.1

