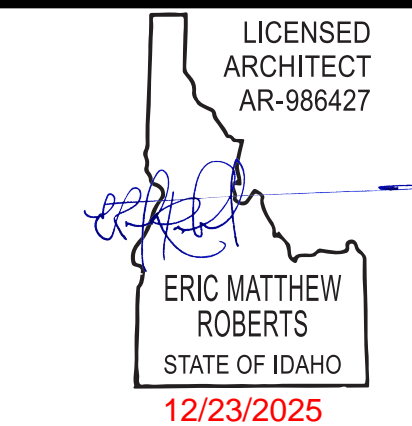


ISSUE DATE: 12.15.2025

REV	DATE	COMMENT
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LCSC PA LAB TECH RENOVATION

LEWIS-CLARK STATE COLLEGE | SAM GLENN COMPLEX 500 4TH ST

PROJECT TEAM



Architect
KNIT
512 S Main Street
Moscow, Idaho 83843
Phone: (208) 410-0402



MEP Engineer
RESOLUT
101 W Cataldo Ave
Suite 205
Spokane, WA 99201
Phone: (509) 919-3403

PROJECT NARRATIVE

DESCRIPTION

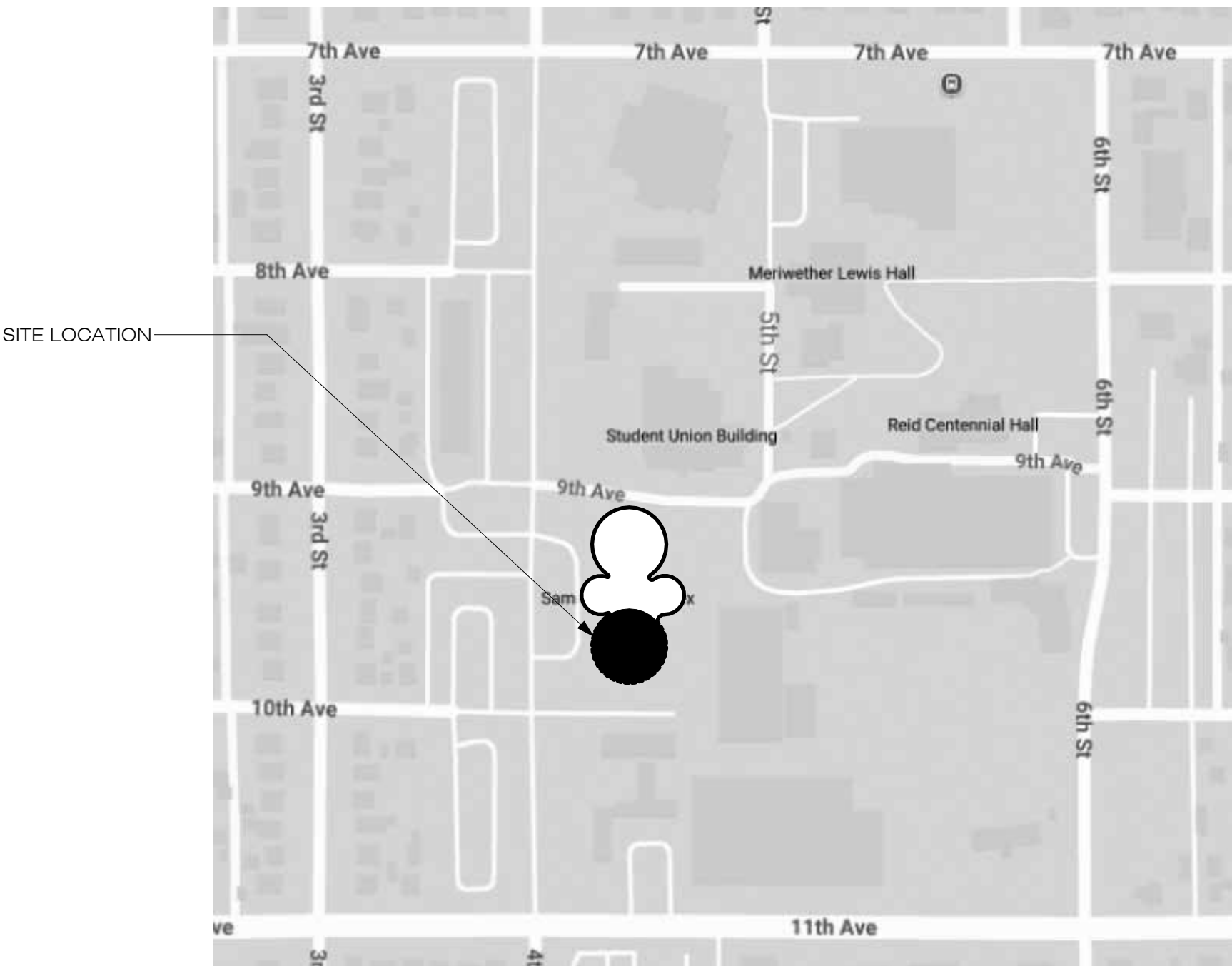
APPROXIMATELY 2,040 SF REMODEL OF EXISTING CLASSROOMS LOCATED AT LEWIS CLARK STATE COLLEGE IN THE SAM GLENN BUILDING LEVEL 2 ROOMS 224 AND 225. SCOPE OF WORK TO INCLUDE NEW FINISHES ON THE FLOOR, CEILING, WALLS WITH MECHANICAL, PLUMBING AND ELECTRICAL UPGRADES. SMALL AMOUNTS OF DEMO WILL OCCUR THROUGHOUT THE PROJECT.

OCCUPANCY AND LOADS WILL REMAIN AS EXISTING. THERE WILL BE NO LIFE SAFETY OR STRUCTURAL ALTERATION. THERE ARE NO BUILDING ENVELOPE CHANGES.

LIST OF ALTERNATES:

ALTERNATE NO. 1: NEW ROOMS/PARTITIONS FOR PATIENT BEDROOMS IN THE 224 PA LAB
*BASE BID TO ONLY HAVE DRESSING ROOM CURTAINS FOR PATIENT BEDROOMS

VICINITY MAP



COVER SHEET

TITLE	PROJECT	CLIENT
LCSC PA LAB	Sam Glenn Complex 500 4th St Lewiston, ID 83501	Lewis Clark State College

JOB NO: 240216

G0.00

CODE ANALYSIS

APPLICABLE BUILDING CODES

BUILDING CODE:	2018 IBC
EXISTING BUILDING CODE:	2018 IEBC
ELECTRICAL CODE:	2023 NEC
MECHANICAL CODE:	2018 IMC
PLUMBING CODE:	2015 UPC
FIRE CODE:	2018 IFC
ENERGY CODE:	2018 IECC
ACCESSIBILITY CODE:	2009 A-117.1

CURRENT CODE - 2018 IBC

OCCUPANCY GROUP(S)	GROUP B
AREA SEPARATION	NONE REQUIRED
SPECIFIC REQUIREMENTS	NONE
TYPE OF CONSTRUCTION	TYPE III B
SEISMIC CLASS:	CLASS D
AUTOMATIC SPRINKLER SYSTEM	YES

FIRE ALARM

GROUP E (IBC 907.2.3): A MANUAL FIRE ALARM SYSTEM IS REQUIRED IN GROUP E OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE. MOST EXISTING EDUCATIONAL BUILDINGS ALREADY CONTAIN A SUPERVISED, ADDRESSABLE FIRE ALARM SYSTEM.

THE REMODEL DOES NOT TRIGGER A NEW BUILDING-WIDE SYSTEM BUT DOES REQUIRE MODIFICATION OF EXISTING DEVICES TO MAINTAIN COVERAGE.

RELOCATE OR ADD SMOKE DETECTORS AS REQUIRED TO MAINTAIN NFPA 72 SPACING.

ADD OR RELOCATE NOTIFICATION APPLIANCES (HORN/STROBES OR STROBES) TO MEET AUDIBLE/VISIBLE REQUIREMENTS.

PROVIDE VISIBLE NOTIFICATION IN EACH CLASSROOM.

NO NEW PULL STATIONS REQUIRED.

FIRE ALARM CONTROL EQUIPMENT: CONNECT NEW OR RELOCATED DEVICES TO EXISTING ADDRESSABLE FIRE ALARM SYSTEM. UPDATE CIRCUIT LOADING, BATTERY CALCULATIONS, AND SEQUENCE OF OPERATIONS.

PROVIDE ADA-COMPLIANT VISIBLE NOTIFICATION PER NFPA 72 CHAPTER 18.

THIS WORK IS A LIMITED ALTERATION AND DOES NOT REQUIRE A FULL SYSTEM UPGRADE

FIRE RESISTANCE REQUIREMENTS PER IBC SECTION 601

STRUCTURAL FRAME	0 HR
BEARING WALLS - EXTERIOR	2 HR
BEARING WALLS - INTERIOR	0 HR
NON BEARING WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

PROJECT DESCRIPTION

APPROXIMATELY 2,040 SF REMODEL OF EXISTING CLASSROOMS LOCATED AT LEWIS CLARK STATE COLLEGE IN THE SAM GLENN BUILDING LEVEL 2 ROOMS 224 AND 225. SCOPE OF WORK TO INCLUDE NEW FINISHES ON THE FLOOR CEILING, WALLS WITH MECHANICAL PLUMBING AND ELECTRICAL UPGRADES. SMALL AMOUNTS OF DEMO WILL OCCUR THROUGHOUT THE PROJECT.

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L01.10	CODE AND EXITING PLAN	
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05 ARCHITECTURAL DEMO		
A02.10	DEMOLITION FLOOR PLAN LEVEL 2 & RCP	12.15.25
05 ARCHITECTURAL NEW CONSTRUCTION		
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A2.11	ALTERNATE BID FLOOR PLAN LEVEL 2	12.15.25
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A10.30	INTERIOR ELEVATIONS	12.15.25
A11.10	DOOR/FRAME ABBREVIATIONS, DOOR SCHEDULE, PARTITION SCHEDULE AND DETAILS	12.15.25
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M01.02	ALTERNATE BID LEVEL 2 MECHANICAL DEMO PLAN	
M1.01	LEVEL 2 MECHANICAL HVAC PLAN	
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08 PLUMBING		
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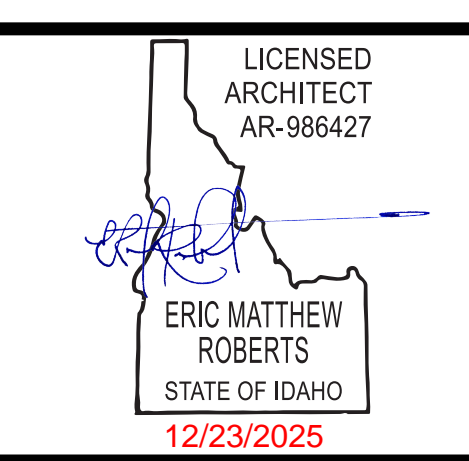
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ISSUE DATE: 12.15.2025

REV	DATE	COMMENT
2	12.15.25	BID RFI CLARIFICATIONS



ERIC MATTHEW ROBERTS
STATE OF IDAHO
12/23/2025

CODE ANALYSIS AND DRAWING INDEX

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

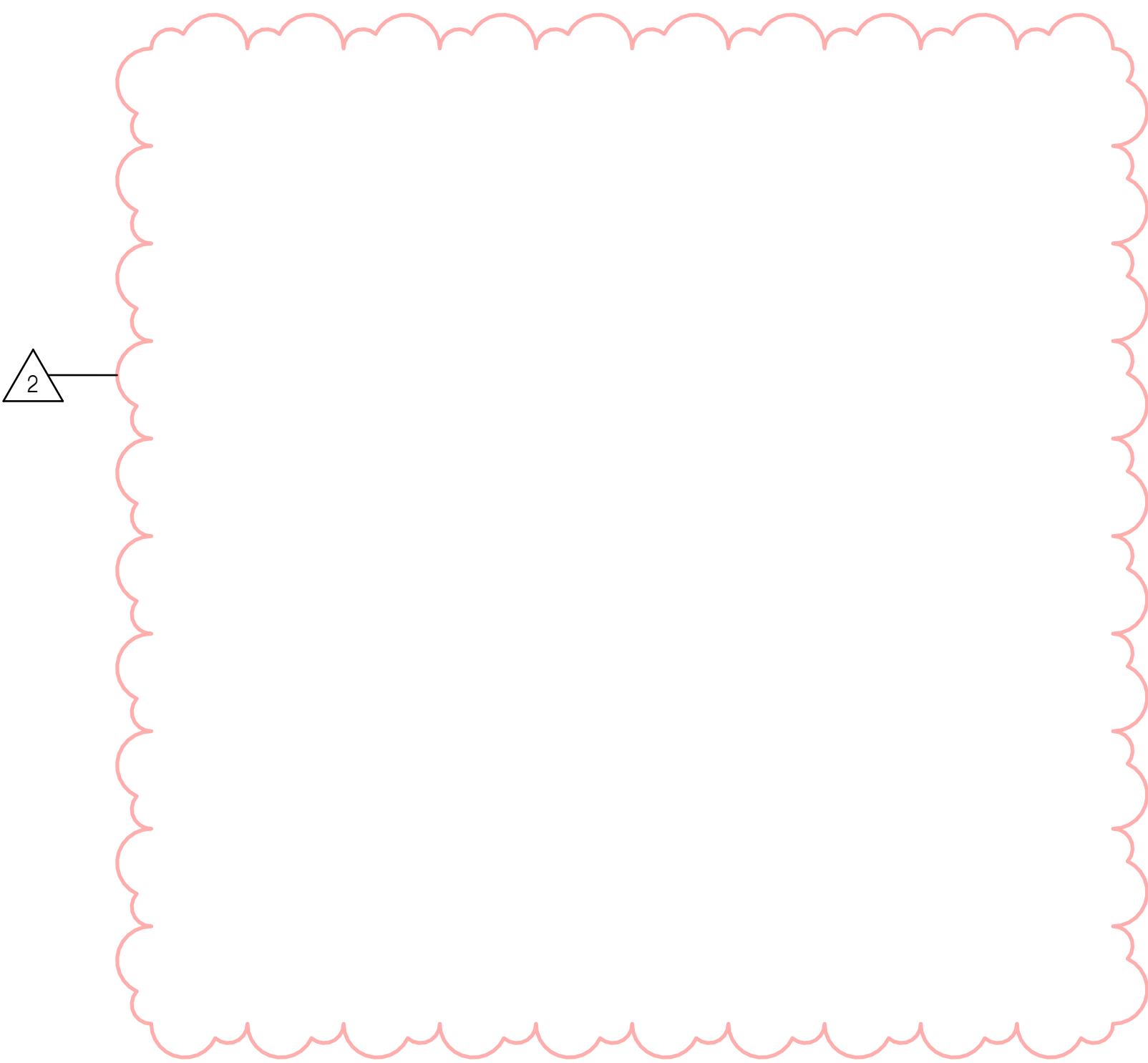
TITLE

PROJECT

CLIENT

JOB NO: 240216

G0.01



ABBREVIATIONS

#	POUND OR NUMBER	I.D.	INSIDE DIAMETER
&	AND	INSUL.	INSULATION
@	AT	INT.	INTERIOR
A.B.	ANCHOR BOLT	JAN.	JANITOR
A.C.	ASPHALT CONCRETE	JT.	JOINT
A.D.	AREA DRAIN	K.O.	KNOCK OUT
A.F.F.	ABOVE FINISH FLOOR	KITCHEN	KITCHEN
A.F.G.	ABOVE FINISH GRADE	L.F.	LINEAR FOOT
A.F.S.	ABOVE FLOOR SLAB	L.K.R.	LOCKER
A.V.	AUDIO/VISUAL	LAB	LABORATORY
ABV.	ABOVE	LAM.	LAMINATE
ACOUST.	ACOUSTICAL	LAV.	LAVATORY
ADJ.	ADJUSTABLE	L.T.	LIGHT
AGGR.	AGGREGATE	M.C.	MEDICINE CABINET
AL.	ALUMINUM	M.O.	MASONRY OPENING
ANOD.	ANODIZED	MAX.	MAXIMUM
APPROX.	APPROXIMATE	MECH.	MECHANICAL
ARCH.	ARCHITECTURAL	MEMB.	MEMBRANE
ASPH.	ASPHALT	MET.	METAL
B.C.	BACK OF CURB	MFR.	MANUFACTURER
B.M.	BENCH MARK	M.H.	MANHOLE
B.U.R.	BUILT UP ROOF	MIN.	MINIMUM
BD	BOARD	MIR.	MIRROR
BITUM.	BITUMINOUS	MISC.	MISCELLANEOUS
BLDG.	BUILDING	MTD.	MOUNTED
BLK.	BLOCK	MUL.	MULLION
BLKG.	BLOCKING	N.	NORTH
BM.	BEAM	N.I.C.	NOT IN CONTRACT
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
BRG.	BEARING	NO.	NUMBER
BTW.	BETWEEN	NOM.	NOMINAL
C.B.	CATCH BASIN	O.C.	ON CENTER
C.F.O.I.	CONTRACTOR FURNISHED / OWNER INSTALLED	O.D.	OUTSIDE DIAMETER (DIM)
C.F.O.I.	CONTRACTOR INSTALLED / CONTRACTOR FURNISHED / OWNER INSTALLED	O.F.C.I.	OWNER FURNISHED / CONTRACTOR INSTALLED / OWNER FURNISHED / OWNER INSTALLED
C.G.	CORNER GUARD	O.F.O.I.	
C.I.	CAST IRON	OA.	OVERALL
C.J.	CONSTRUCTION JOINT	OBS.	OBSOLETE
C.M.U.	CONCRETE MASONRY UNIT	OFF.	OFFICE
C.O.	CLEAN OUT	OPNG.	OPENING
C.R.	COLD ROLLED	OPP.	OPPOSITE
C.T.	CERAMIC TILE	P.B.	PEG BOARD
CAB.	CABINET	P.L.	PROPERTY LINE
CEM.	CEMENT	P.T.D.	PAPER TOWEL DISPENSER
CEM.	CEMENT PLASTER	P.T.D.R.	P.T.D. AND RECEPTACLE
PLAST.	CERAMIC	P.T.R.	PAPER TOWEL RECEPTACLE
CER.	CENTER LINE	PL.	PLATE
CL.	CEILING	PLAM.	PLASTIC LAMINATE
CLG.	CAULKING	PLUM.	PLUMBING
CLKG.	CLEAR	PLY. WD.	PLYWOOD
CLR.	COUNTER	PR.	PAIR
CNTR.	COLUMN	PRECST.	PRE-CAST
COL.	CONCRETE	PT.	PAINT
CONC.	CONNECTION	PTN.	PARTITION
CONN.	CONSTRUCTION	Q.T.	QUARRY TILE
CONSTR.	CONTINUOUS	R.	RISER
CONT.	CORRIDOR	R.D.	ROOF DRAIN
CORR.	CARPET	R.O.	ROUGH OPENING
CPT.	COUNTER	R.W.L.	RAIN WATER LEADER
CTR.	COUNTERSINK	RAD.	RADIUS
CTSK.	DRINKING FOUNTAIN	REF.	REFERENCE
D.F.	DOOR OPENING	REFR.	REFRIGERATOR
D.O.	DRY STANDPIPE	REFR.	REINFORCED
D.S.P.	DRAWER	REQ.	REQUIRED
D.W.R.	DOUBLE	RESIL.	RESILIENT
DBL.	DEMOLITION	RM.	ROOM
DEMO.	DEPARTMENT	RSTR.	REGISTER
DEPT.	DETAIL	RWD.	REDWOOD
DET.	DIAMETER	S. SK.	SERVICE SINK
DIA.	DIMENSION	S.	SOUTH
DIM.	DISPENSER	S.C.	SOLID CORE
DISP.	DOWN	S.C.E.	SEAT COVER DISPENSER
DN.	DOOR	S.H.	SHELF
DR.	DOWNSPOUT	S.N.D.	SANITARY NAPKIN
DS.	DRAWING	SCHED.	DISPENSER
DWG.	EAST	SD.	SCHEDULE
E.	EXPANSION JOINT	SECT.	SOAP DISPENSER
E.J.	ELEVATION	SHR.	SECTION
E.L.	ELECTRIC PANELBOARD	SHT.	SHOWER
E.P.	SINGLE PLY ROOF	SIM.	SHEET
E.P.D.M.	MEMBRANE	SPEC.	SIMILAR
E.W.	EACH WAY	SQ.	SPECIFICATION
E.W.C.	ELECTRIC WATER COOLER	SST.	SQUARE
EA.	EACH	STA.	STAINLESS STEEL
ELEC.	ELECTRICAL	STD.	STATION
EMERG.	EMERGENCY	STL.	STANDARD
ENCL.	ENCLOSURE	STOR.	STEEL
EQ.	EQUAL	STRL.	STORAGE
EQUIP.	EQUIPMENT	SUSP.	STRUCTURAL
EXIST.	EXISTING	SYM.	SUSPENDED
EXP.	EXPANSION	T & G	SYMMETRICAL
EXPO.	EXPOSED	T.B.	TONGUE AND GROOVE
EXT.	EXTERIOR	T.E.R.	TOWEL BAR
F.A.	FIRE ALARM	T.O.C.	TELEPHONE EQUIPMENT
F.B.	FLAT BAR	ROOM P.	ROOM
F.D.	FLOOR DRAIN	T.O.W.	TOP OF CURB
F.E.	FIRE EXTINGUISHER	T.V.	TOP OF PAVEMENT
F.E.C.	FIRE EXTINGUISHER	TEL.	TOP OF WALL
F.H.	CABINET	THK.	TELEVISION
F.H.C.	FIRE HYDRANT	TRD.	TELEPHONE
F.O.C.	FIRE HOSE CABINET	TYP.	THICK
F.O.F.	FACE OF CONCRETE	U.N.O.	TREAD
F.O.M.	FACE OF FINISH	UNFIN.	TYPICAL
F.O.S.	FACE OF MASONRY	UR.	UNLESS NOTED OTHERWISE
F.S.	FACE OF STUDS	V.B.	UNFINISHED
FDN.	FOUNDATION	V.C.G.	URINAL
FIN.	FLOOR SINK	V.T.	VAPOR BARRIER
FLASH.	FINISH	VAR.	VINYL CORNER GUARD
FLR.	FLASHING	VERT.	VINYL TILE
FLUOR.	FLOOR	VEST.	VARIES
FFRF.	FLUORESCENT	W.	VERTICAL
FT.	FIREPROOF	W.C.	VESTIBULE
FTG.	FOOT OR FEET	W/	WEST
FURR.	FOOTING	W/O	WATER CLOSET
FUT.	FURRING	WD.	WITH
G.B.	FUTURE	WP.	WITHOUT
GA.	GRAB BAR	WOOD.	WOOD
GALV.	GAUGE	WSOT.	WATERPROOF
GL.	GALVANIZED	WT.	WAINSCOT
GL.BLK.	GLASS		WEIGHT
GND.	GLASS BLOCK		
GR.	GROUND		
GYP.	GRADE		
H.B.	GYPSUM		
H.C.	HOSE BIB		
H.M.	HOLLOW CORE		
HDWD.	HOLLOW METAL		
HDWE.	HARDWOOD		
HGT.	HARDWARE		
HORIZ.	HEIGHT		
HR.	HORIZONTAL		
	HOUR		

DEFINITIONS

DEMOLISH- DISMANTLE, RAZE, DESTROY, OR WRECK ANY BUILDING OR STRUCTURE OR ANY PART THEREOF.
REMOVE- DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION AND DISPOSE OF THEM OFF SITE, UNLESS ITEMS ARE INDICATED TO BE SALVAGED OR REINSTALLED.
REMOVE AND SALVAGE- DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE. CLEAN, PACKAGE, LABEL AND DELIVER SALVAGED ITEMS TO OWNER IN READY-FOR-REUSE CONDITION.
REMOVE AND REINSTALL- DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE. CLEAN AND PREPARE FOR REUSE AND REINSTALL WHERE INDICATED.
EXISTING TO REMAIN- DESIGNATION FOR EXISTING ITEMS THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE SALVAGED OR REINSTALLED.

SYMBOL LEGEND

	DATUM POINT
	DOOR NUMBER
	WINDOW TAG
	ROOM NUMBER
	WALL TAG
	ACCESSORY/ EQUIPMENT TAG
	KEYNOTE
	NORTH ARROW
	PITCH
	CEILING TAG
	FLOORING TAG
	ELEVATION TAG
	GRID BUBBLE AND LINE
	EXISTING GRID BUBBLE AND LINE
	MATCH BUBBLE AND LINE
	INTERIOR ELEVATION TAG
	EXTERIOR ELEVATION TAG
	REVISION TAG
	BUILDING SECTION TAG
	WALL SECTION TAG

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REV	DATE	COMMENT
2	12.15.25	BID RFI CLARIFICATIONS

LICENSED ARCHITECT
AR-986427

ERIC MATTHEW ROBERTS
STATE OF IDAHO

12/23/2025

INFORMATION SHEET

TITLE	PROJECT	CLIENT
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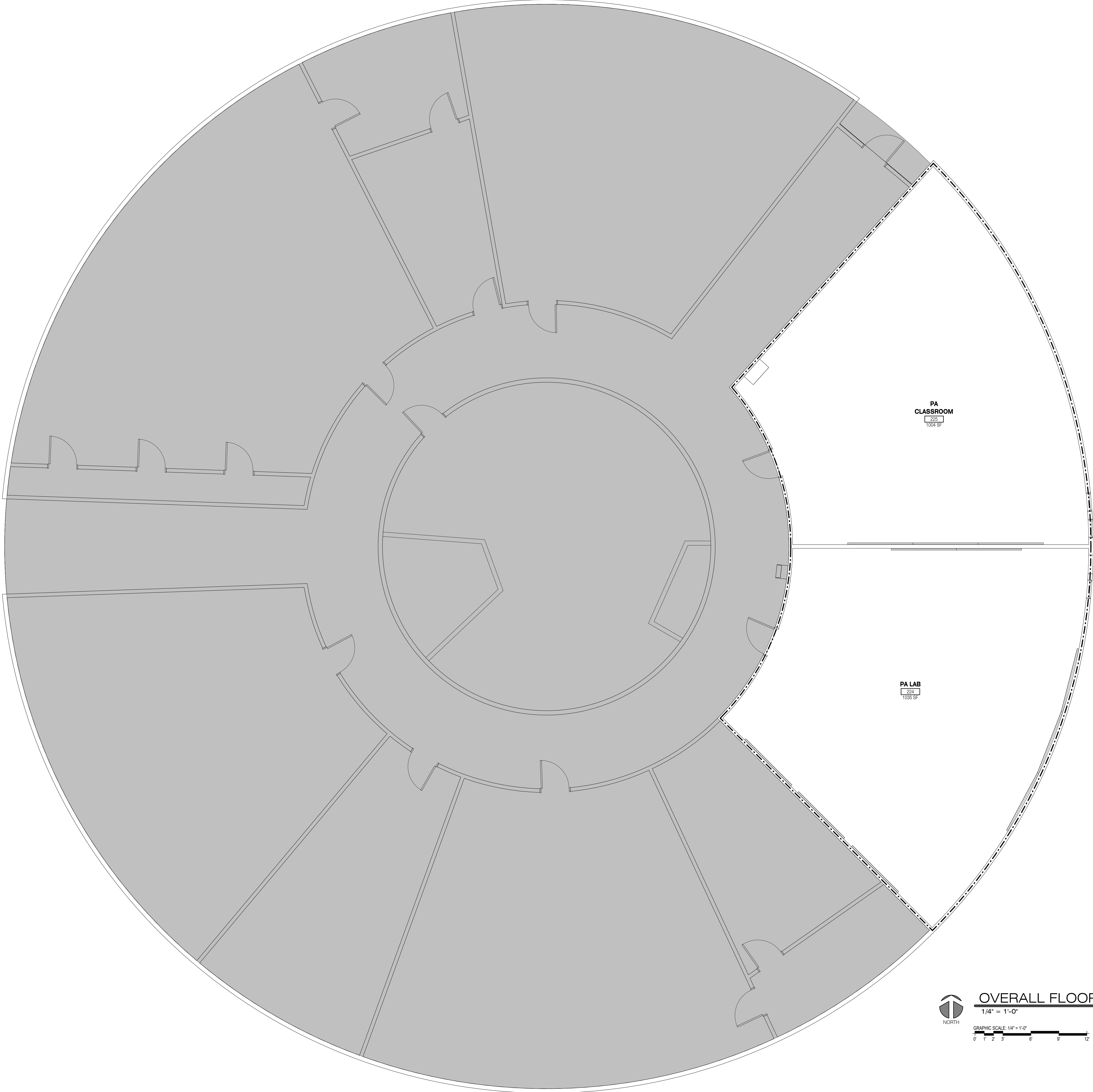
JOB NO: **240216**

G0.20

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College



PLAN LEGEND

- AREA NOT IN SCOPE
- AREA OF WORK



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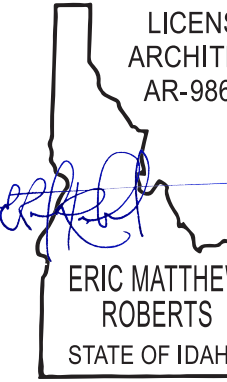
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REV DATE COMMENT



OVERALL FLOOR PLAN LEVEL 2

LCSC MLT/PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

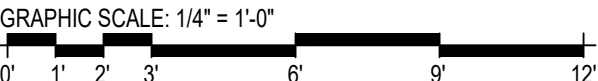
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OVERALL FLOOR PLAN - LEVEL 2

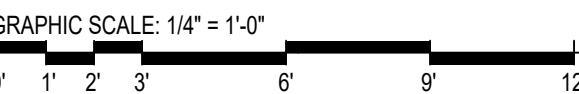
1/4" = 1'-0"





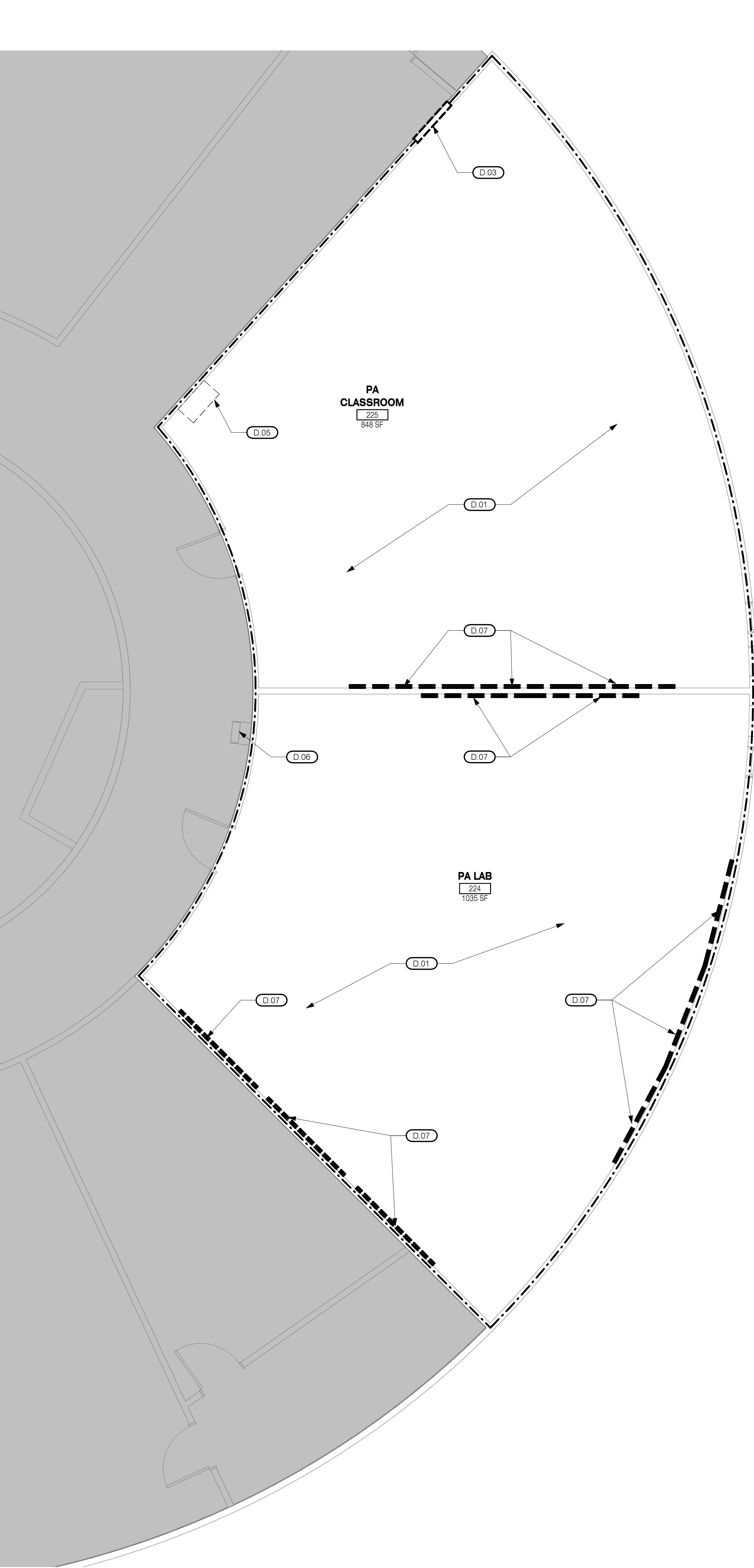
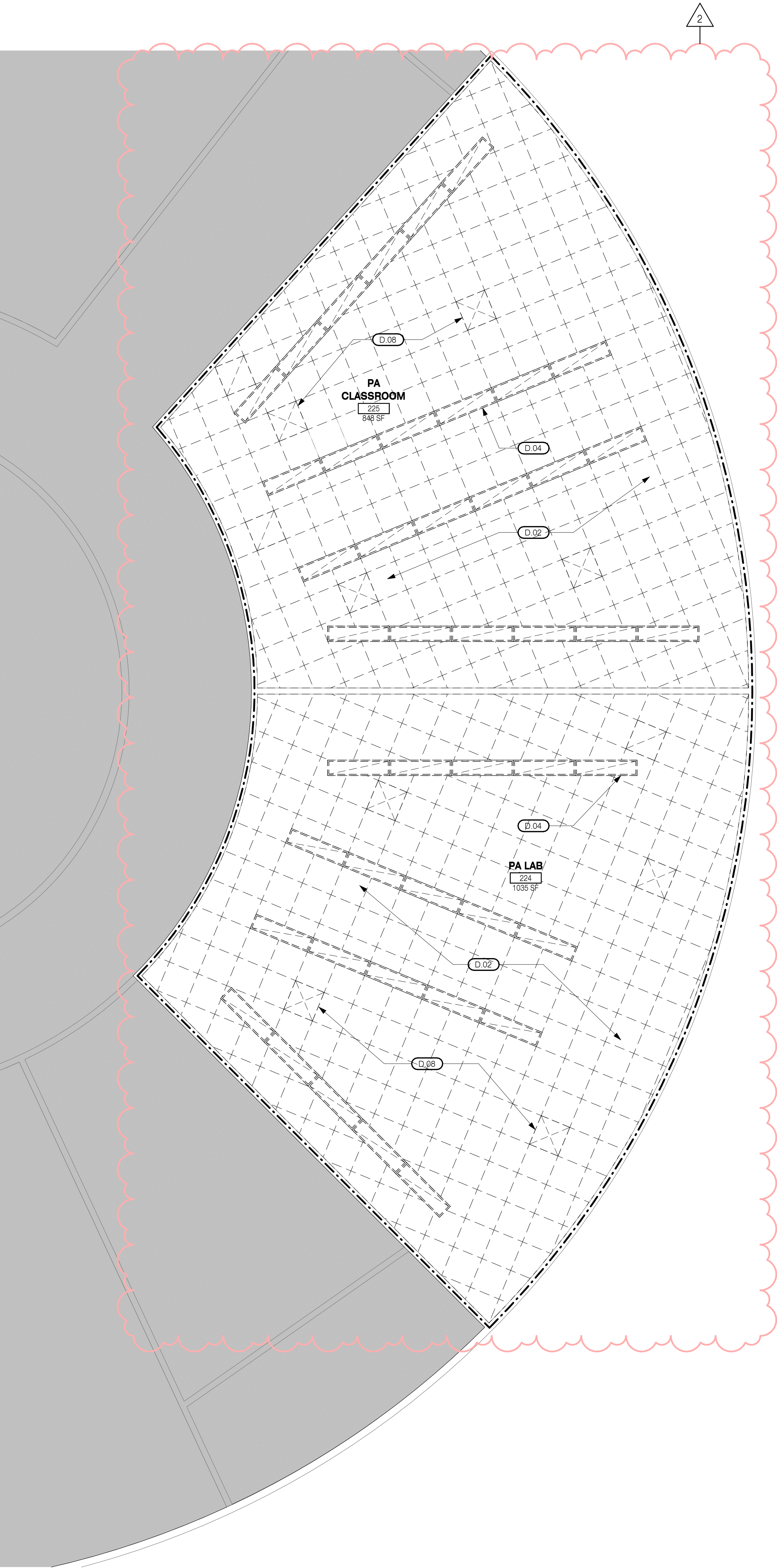
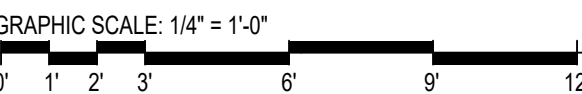
DEMOLITION RCP - LEVEL 2

1/4" = 1'-0"



DEMOLITION FLOOR PLAN - LEVEL 2

1/4" = 1'-0"



SHEET NOTES

1. HEIGHT REFERENCES ARE TAKEN FROM FINISH FLOOR ELEVATIONS. DIMENSIONS ARE TO CENTERLINE OF FIXTURES. CEILING TAGS WITHOUT LVL: 0 (LEVEL: 0) ARE TAKEN FROM LEVEL: 1.
2. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FINISH SCHEDULE AND CEILING PLAN.
3. MECHANICAL FIXTURES, LIGHT FIXTURES SHOWN ON THIS DRAWING ARE FOR LOCATIONS ONLY. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT.
4. CENTER ALL FIXTURE AND REGISTERS IN LAY-IN CEILING TILES U.N.O. FIXTURE SHALL BE SUPPORTS INDEPENDENTLY FROM SUSPENDED CEILING.
5. ALL OSOI (OWNER SUPPLIED - CONTRACTOR INSTALLED) FIXTURES TO BE COORDINATED WITH CONTRACTOR FOR INSTALLATION REQUIREMENTS AND HEIGHTS PRIOR TO ROUGH IN OF CONNECTIONS.
6. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CENTER LINE OF GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH.
7. DO NOT SCALE FROM DRAWINGS.
8. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY ARCHITECT OF ANY PLAN DISCREPANCIES OR EXISTING AS-BUILT CONDITION CONFLICTING INFORMATION.
9. REFER TO ELECTRICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF ELECTRICAL EQUIPMENT, DEVICES, AND INFRASTRUCTURE.
10. REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS AND/OR FINISHES.
11. ALL RECEPTACLES AND SWITCHES TO REMAIN, U.N.O.
12. VENTILATE ENCLOSED AREAS TO ASSIST CURE OF MATERIALS, TO DISSIPATE HUMIDITY, AND TO PREVENT ACCUMULATION OF DUST, FUMES, VAPORS, OR GASES.
13. KEEP AREAS IN WHICH ALTERATIONS ARE BEING CONDUCTED SEPARATED FROM OTHER AREAS THAT ARE NOT AFFECTED BY ALTERATION WORK.
14. PROVIDE, ERECT, AND MAINTAIN TEMPORARY DUSTPROOF PARTITIONS TO SEPARATE AREAS OF ALTERATION FROM THE REMAINING PORTIONS OF THE BUILDING.
15. REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
16. REMOVE ROTTED WOOD, CORRODED METALS, AND DETERIORATED MASONRY AND CONCRETE; REPLACE WITH NEW CONSTRUCTION.
17. REMOVE ITEMS INDICATED ON DRAWINGS AS TO BE DEMOLISHED.
18. RELOCATE ITEMS INDICATED ON DRAWINGS INDICATED TO BE SALVAGED.
19. WHERE NEW SURFACE FINISHES ARE TO BE APPLIED TO EXISTING WORK, PERFORM REMOVALS, PATCH, AND PREPARE EXISTING SURFACES AS REQUIRED TO RECEIVE NEW FINISH. REMOVE EXISTING FINISH IF NECESSARY FOR SUCCESSFUL APPLICATION OF NEW FINISH.
20. WHERE NEW SURFACE FINISHES ARE NOT SPECIFIED OR INDICATED, PATCH HOLES AND DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES AS CLOSELY AS POSSIBLE.
21. SERVICES (INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TELECOMMUNICATIONS): REMOVE, RELOCATE, AND EXTEND EXISTING SYSTEMS TO ACCOMMODATE NEW CONSTRUCTION.
22. REMOVE ABANDONED PIPE, DUCTS, CONDUITS, AND EQUIPMENT, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS; REMOVE BACK TO SOURCE OF SUPPLY WHERE POSSIBLE. OTHERWISE CAP, STUB AND TAG WITH IDENTIFICATION. PATCH HOLES LEFT BY REMOVAL USING MATERIALS SPECIFIED FOR NEW CONSTRUCTION.
23. PERFORM WHATEVER CUTTING AND PATCHING IS NECESSARY TO COMPLETE THE WORK, FIT PRODUCTS TOGETHER TO INTEGRATE WITH OTHER WORK, PROVIDE OPENINGS FOR PENETRATION OF MECHANICAL, ELECTRICAL, AND OTHER SERVICES. MATCH WORK THAT HAS BEEN CUT TO ADJACENT WORK, REPAIR AREAS ADJACENT TO CUTS TO REQUIRED CONDITION. REPAIR NEW WORK DAMAGED BY SUBSEQUENT WORK. REMOVE SAMPLES OF INSTALLED WORK FOR TESTING WHEN REQUESTED, REMOVE AND REPLACE DEFECTIVE AND NON-COMPLYING WORK.
24. PATCHING: FINISH PATCHED SURFACES TO MATCH FINISH THAT EXISTED PRIOR TO PATCHING. ON CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. MATCH COLOR, TEXTURE, AND APPEARANCE. REPAIR PATCHED SURFACES THAT ARE DAMAGED, LIFTED, DISCOLORED, OR SHOWING OTHER IMPERFECTIONS DUE TO PATCHING WORK. IF DEFECTS ARE DUE TO CONDITION OF SUBSTRATE, REPAIR SUBSTRATE PRIOR TO REPAIRING FINISH.

KEYNOTES

D.01	REMOVE CARPET AND WALLBASE COMPLETE; CLEAN AND PREP FLOOR FOR NEW CARPETING. CLEAN WALL OF ANY ADHESIVE. PATCH AND REPAIR WALL AS REQUIRED TO PREPARE FOR NEW WALL BASE.
D.02	REMOVE (DEMOLISH) EXISTING CONCEALED SUSPENDED CEILING SYSTEM AND ALL ASSOCIATED ITEMS.
D.03	DEMOLISH EXISTING WALL TO PREPARE FOR NEW DOOR.
D.04	REMOVE (DEMOLISH) FLUORESCENT 2X4 FIXTURES. PREPARE FOR NEW LIGHTING IN THE SAME LOCATIONS. PATCH AND REPAIR CEILING AS REQUIRED.
D.05	EXISTING SERVER RACK TO BE REMOVED AND SALVAGED. WORK TO BE COMPLETE BY OWNER.
D.06	EXISTING DRINKING FOUNTAIN TO REMAIN.
D.07	REMOVE AND SALVAGE EXISTING WHITE BOARDS.
D.08	REMOVE (DEMOLISH) EXISTING AIR TERMINALS. COORDINATE WITH MECHANICAL.

DEMO CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION
	DEMO 1X4 RECESSED FLUORESCENT LIGHT FIXTURE
	EXISTING RETURN AIR DIFFUSER / EXHAUST TO REMAIN
	EXISTING SUPPLY AIR DIFFUSER TO REMAIN

PLAN LEGEND

	AREA NOT IN SCOPE
	AREA OF WORK



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ISSUE DATE: **12.15.2025**

REV	DATE	COMMENT
2	12.15.25	BID RFI CLARIFICATIONS

LICENSED ARCHITECT
AR-986427

ERIC MATTHEW ROBERTS
STATE OF IDAHO
12/23/2025

DEMOLITION FLOOR PLAN LEVEL 2 & RCP

LCSC PA LAB

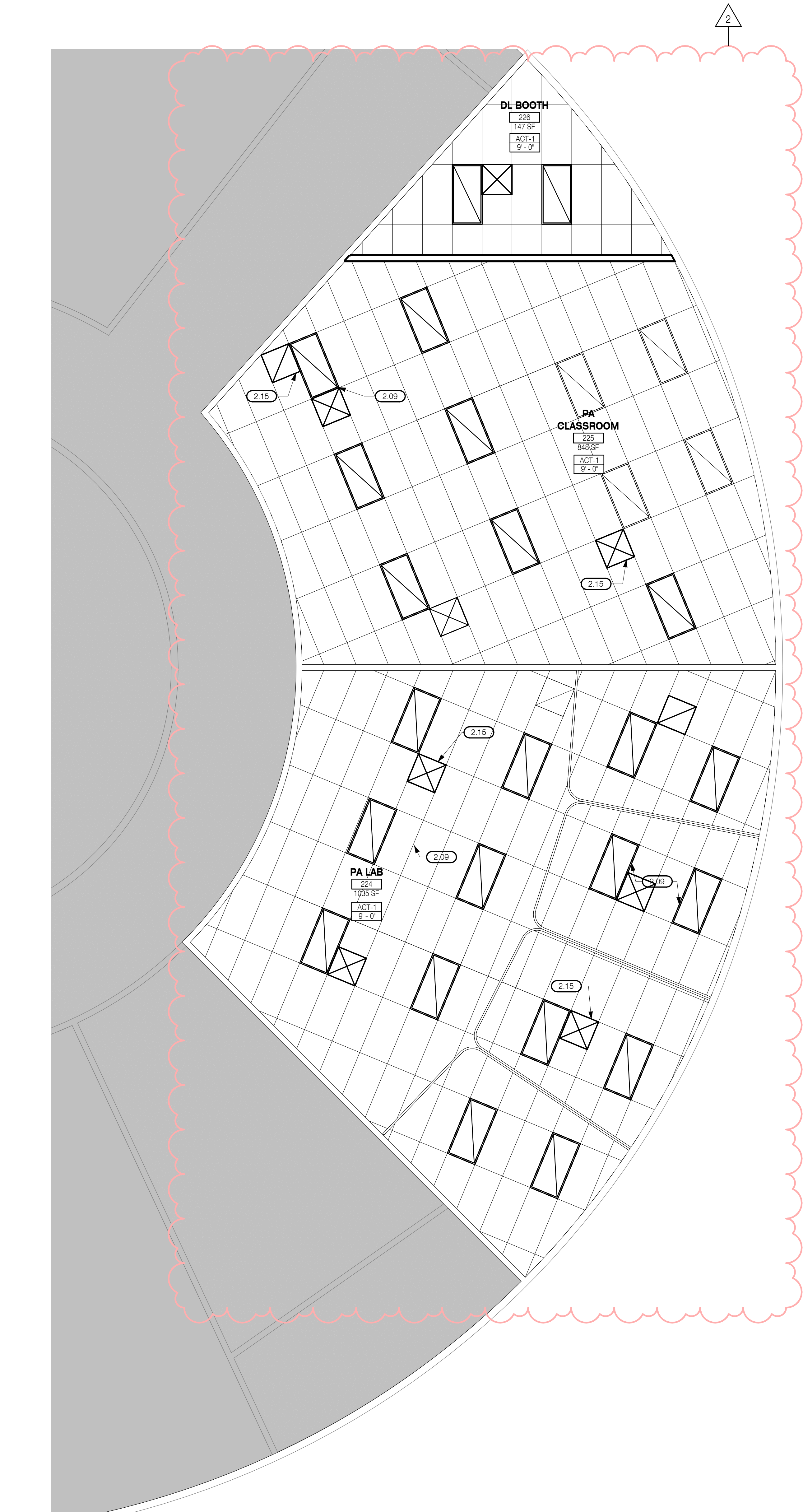
Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

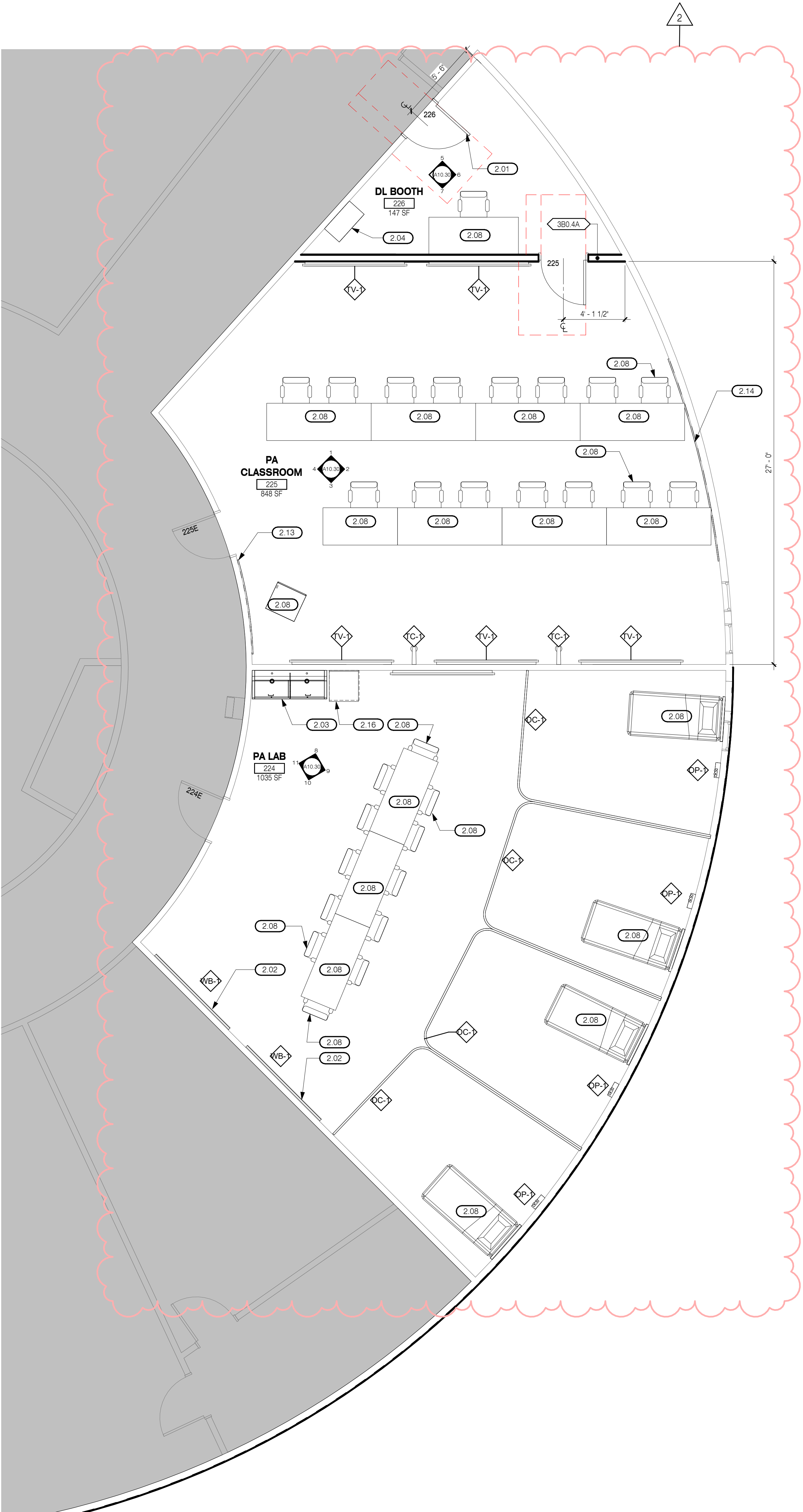
TITLE	PROJECT	CLIENT
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JOB NO: **240216**

AD2.10



RCP - LEVEL 2
1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0' 1' 2' 3' 6' 9' 12'



FLOOR PLAN - LEVEL 2
1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0' 1' 2' 3' 6' 9' 12'

SHEET NOTES

- ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL, OR CENTER LINE OF GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH
- DO NOT SCALE FROM DRAWINGS
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY ARCHITECT OF ANY PLAN DISCREPANCIES OR EXISTING AS-BUILT CONDITION CONFLICTING INFORMATION.
- ALL DOORS AND WINDOWS DIMENSIONED TO CENTERLINE OF CLEAR OPENING. ALL NON-DIMENSIONED WINDOWS TO BE CENTERED IN THE CLEAR OPENING.
- REFER TO MECHANICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF MECHANICAL EQUIPMENT AND INFRASTRUCTURE.
- REFER TO PLUMBING DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF PLUMBING EQUIPMENT AND INFRASTRUCTURE.
- REFER TO ELECTRICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF ELECTRICAL EQUIPMENT, DEVICES, AND INFRASTRUCTURE
- REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS AND/OR FINISHES
- HEIGHT REFERENCES ARE TAKEN FROM FINISH FLOOR ELEVATIONS. DIMENSIONS ARE TO CENTERLINE OF FIXTURES. CEILING TAGS WITHOUT LVL 0 (LEVEL 0) ARE TAKEN FROM LEVEL 1.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FINISH SCHEDULE AND CEILING PLAN
- MECHANICAL FIXTURES, LIGHT FIXTURES SHOWN ON THIS DRAWING ARE FOR LOCATIONS ONLY. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT
- CENTER ALL FIXTURE AND REGISTERS IN LAY-IN CEILING TILES U.N.O. FIXTURE SHALL BE SUPPORTS INDEPENDENTLY FROM SUSPENDED CEILING
- THE GENERAL CONTRACTOR SHALL COORDINATE FIRE SPRINKLER HEAD LOCATIONS WITH MECHANICAL AND ELECTRICAL ITEMS. ALL HEADS SHALL BE CENTERED IN CEILING TILES, WHERE OCCURS
- ALL OSOI (OWNER SUPPLIED - CONTRACTOR INSTALLED) FIXTURES TO BE COORDINATED WITH CONTRACTOR FOR INSTALLATION REQUIREMENTS AND HEIGHTS PRIOR TO ROUGH IN OF CONNECTIONS
- ADAPT EXISTING WORK TO FIT NEW WORK. MAKE AS NEAT AND SMOOTH TRANSITION AS POSSIBLE.
- WHEN EXISTING FINISHED SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT A NATURAL LINE OF DIVISION AND MAKE RECOMMENDATION TO ARCHITECT.
- WHERE REMOVAL OF PARTITIONS OR WALLS RESULTS IN ADJACENT SPACES BECOMING ONE, REWORK FLOORS, WALLS, AND CEILINGS TO A SMOOTH PLANE WITHOUT BREAKS, STEPS, OR BULKHEADS.
- WHERE A CHANGE OF PLANE OF 1/4 INCH (6 MM) OR MORE OCCURS IN EXISTING WORK FLOAT EXISTING FINISHED SURFACES TO PROVIDE A NEAT AND SMOOTH TRANSITION AS POSSIBLE.
- PATCHING. WHERE THE EXISTING SURFACE IS NOT INDICATED TO BE REFINISHED, PATCH TO MATCH THE SURFACE FINISH THAT EXISTED PRIOR TO CUTTING. WHERE THE SURFACE IS INDICATED TO BE REFINISHED, PATCH SO THAT THE SUBSTRATE IS READY FOR THE NEW FINISH.
- REFINISH EXISTING SURFACES AS INDICATED.
- WHERE ROOMS OR SPACES ARE INDICATED TO BE REFINISHED, REFINISH ALL VISIBLE EXISTING SURFACES TO REMAIN TO THE SPECIFIED CONDITION FOR EACH MATERIAL, WITH A NEAT TRANSITION TO ADJACENT FINISHES.
- IF MECHANICAL OR ELECTRICAL WORK IS EXPOSED ACCIDENTALLY DURING THE WORK, RE-COVER AND REFINISH TO MATCH.

KEYNOTES

2.01	INSTALL NEW DOOR AND FRAME IN NEW OPENING
2.02	EXISTING WHITEBOARDS TO BE RELOCATED
2.03	NEW SURGICAL SCRUB SINK CONNECTED TO EXISTING PLUMBING. REFER TO PLUMBING DRAWINGS
2.04	SALVAGED SERVER RACK TO BE RELOCATED. WORK TO BE DONE BY OWNER
2.08	FURNITURE TO BE O.F.O.I.
2.09	NEW LIGHT FIXTURE. REFER TO ELECTRICAL
2.13	NEW WIREWELD TO BE INSTALLED, AT LEAST 3 CIRCUITS, REFER TO ELECTRICAL
2.14	NEW WIREWELD TO BE INSTALLED, AT LEAST 4 CIRCUITS, REFER TO ELECTRICAL
2.15	NEW RETURN AIR DIFFUSER. SEE MECHANICAL
2.16	NEW BUILT IN COUNTER WITH CABINET BELOW, PLAM-1

CEILING TYPES

SYMBOL	CEILING DESCRIPTION
XXX-#	CEILING TYPE MARK
50'-0"	CEILING HEIGHT (INDICATES HEIGHT ABOVE FINISHED FLOOR)
ACT-1	NEW 2X4 ACOUSTICAL CEILING SYSTEM

CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION
[Symbol]	RECESSED LED LIGHT FIXTURE
[Symbol]	EXISTING RETURN AIR DIFFUSER / EXHAUST
[Symbol]	EXISTING SUPPLY AIR DIFFUSER
[Symbol]	NEW SUPPLY AIR DIFFUSER / EXHAUST, SEE MECHANICAL
[Symbol]	NEW RETURN AIR DIFFUSER / EXHAUST, SEE MECHANICAL

WALL LEGEND

LEGEND	DESCRIPTION
[Symbol]	EXISTING NON-LOAD BEARING PARTITION (NON-RATED)
[Symbol]	NEW NON-LOAD BEARING PARTITION (NON-RATED)
XXX XA	A=ACOUSTICAL CORE THICKNESS FIRE RATING OR SMOKE CORE HEIGHT CORE TYPE

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12/23/2025

FLOOR PLAN LEVEL 2 & RCP
LCSC PA LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501
Lewis Clark State College

TITLE PROJECT CLIENT

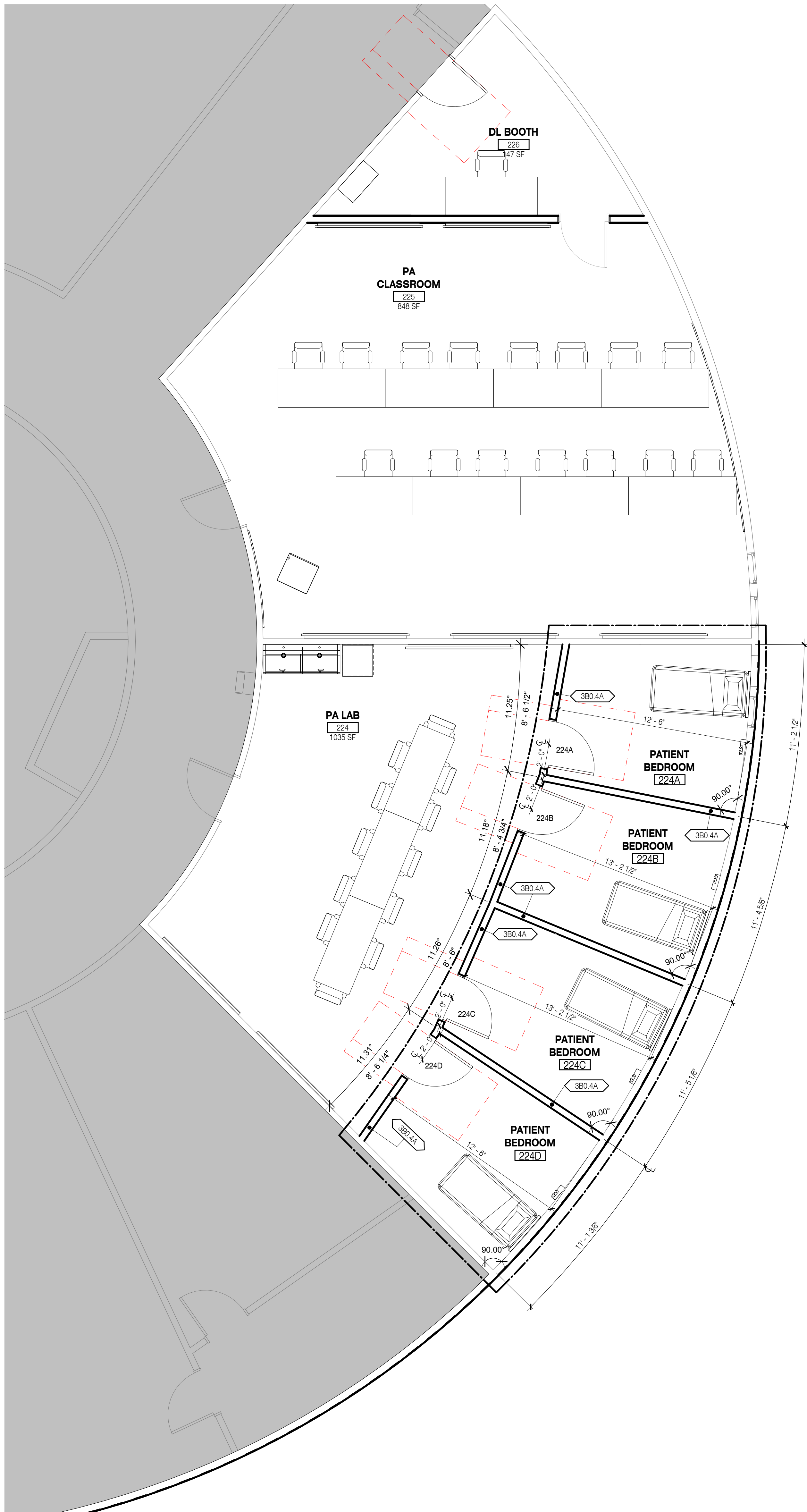
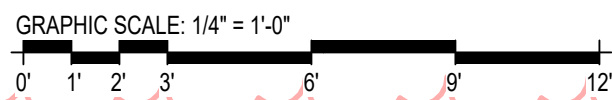
JOB NO: **240216**

A2.10



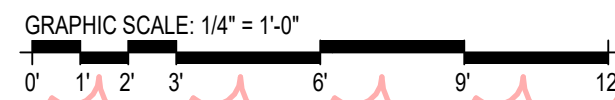
ALTERNATE NO. 1 FLOOR PLAN - LEVEL 2

1/4" = 1'-0"



ALTERNATE NO. 1 FLOOR PLAN - LEVEL 2

1/4" = 1'-0"



SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL, OR CENTER LINE OF GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH
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17. WHERE REMOVAL OF PARTITIONS OR WALLS RESULTS IN ADJACENT SPACES BECOMING ONE, REWORK FLOORS, WALLS, AND CEILINGS TO A SMOOTH PLANE WITHOUT BREAKS, STEPS, OR BULKHEADS.
18. WHERE A CHANGE OF PLANE OF 1/4 INCH (6 MM) OR MORE OCCURS IN EXISTING WORK, FLOAT EXISTING FINISHED SURFACES TO PROVIDE A NEAT AND SMOOTH TRANSITION AS POSSIBLE.
19. PATCHING. WHERE THE EXISTING SURFACE IS NOT INDICATED TO BE REFINISHED, PATCH TO MATCH THE SURFACE FINISH THAT EXISTED PRIOR TO CUTTING. WHERE THE SURFACE IS INDICATED TO BE REFINISHED, PATCH SO THAT THE SUBSTRATE IS READY FOR THE NEW FINISH.
20. REFINISH EXISTING SURFACES AS INDICATED.
21. WHERE ROOMS OR SPACES ARE INDICATED TO BE REFINISHED, REFINISH ALL VISIBLE EXISTING SURFACES TO REMAIN TO THE SPECIFIED CONDITION FOR EACH MATERIAL, WITH A NEAT TRANSITION TO ADJACENT FINISHES.
22. IF MECHANICAL OR ELECTRICAL WORK IS EXPOSED ACCIDENTALLY DURING THE WORK, RE-COVER AND REFINISH TO MATCH.

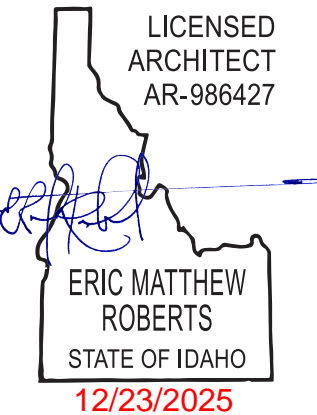


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ALTERNATE BID FLOOR PLAN LEVEL 2

LCSC PA LAB

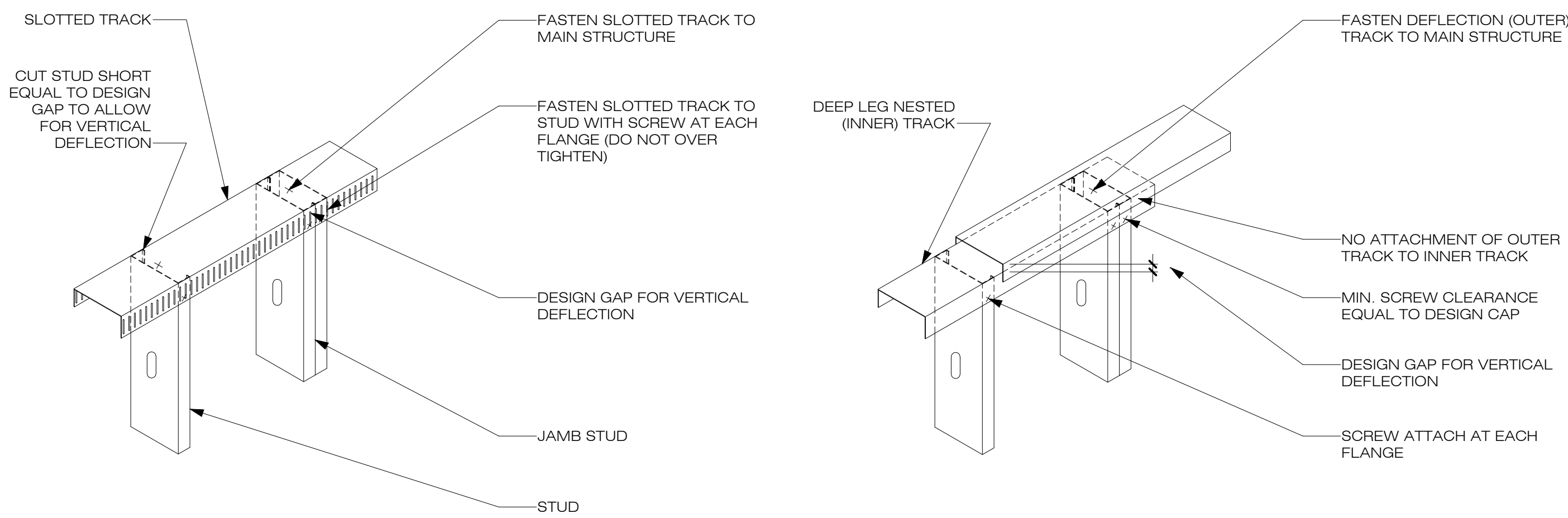
Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

TITLE	PROJECT	CLIENT
ALTERNATE BID FLOOR PLAN LEVEL 2	LCSC PA LAB	Lewis Clark State College

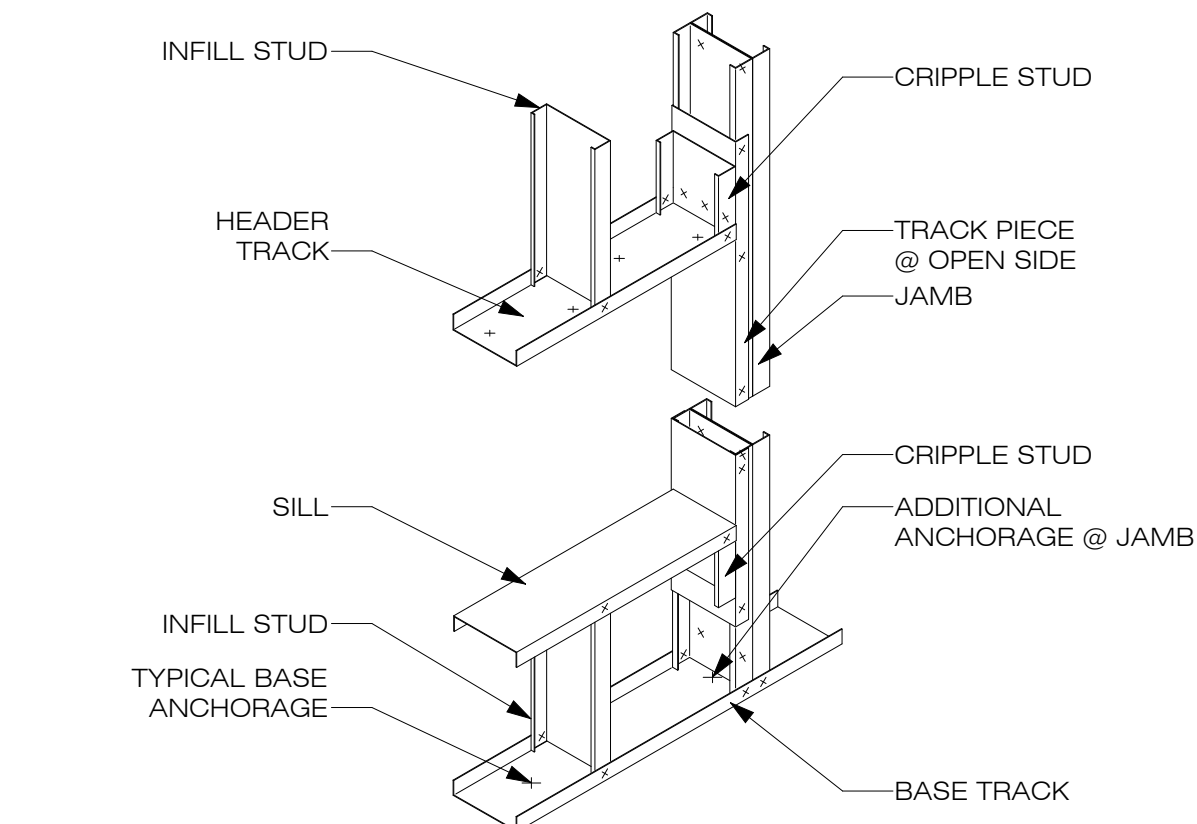
JOB NO: 240216

A2.11



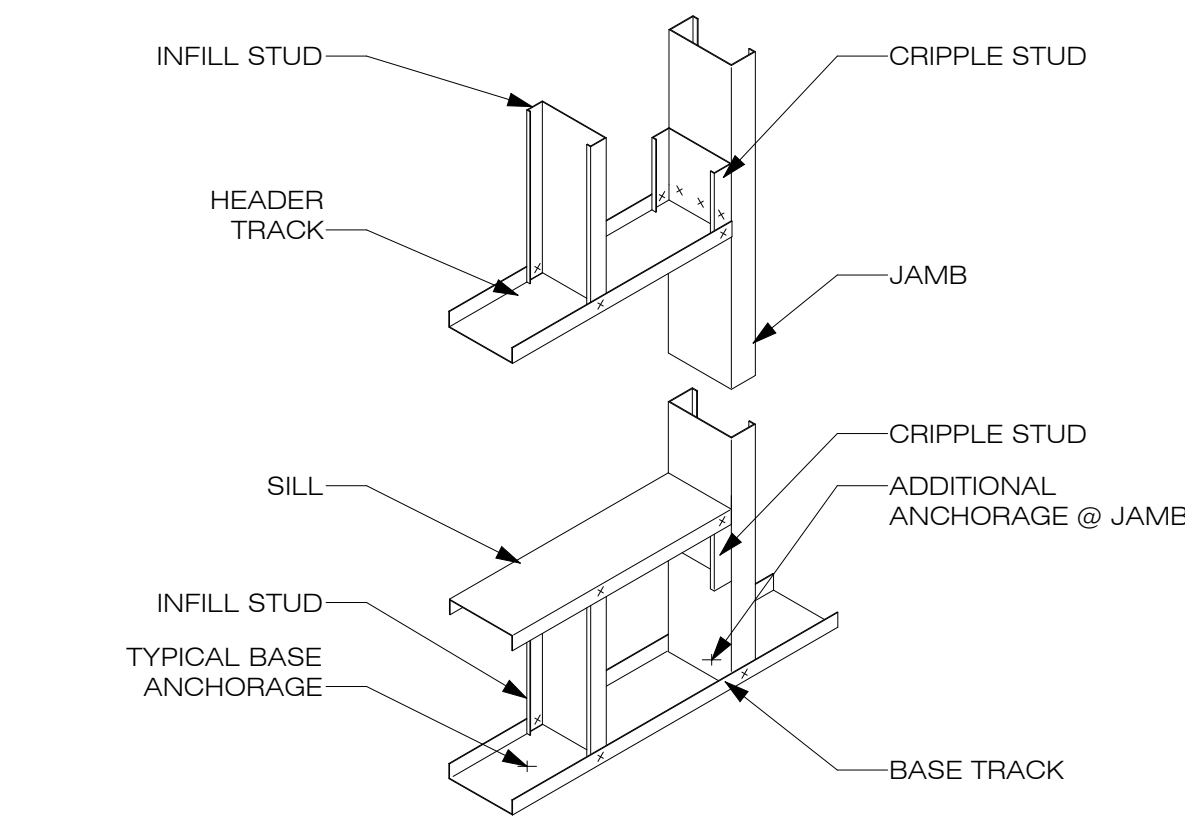
1 DEFLECTION DETAILS

1" = 1'-0"

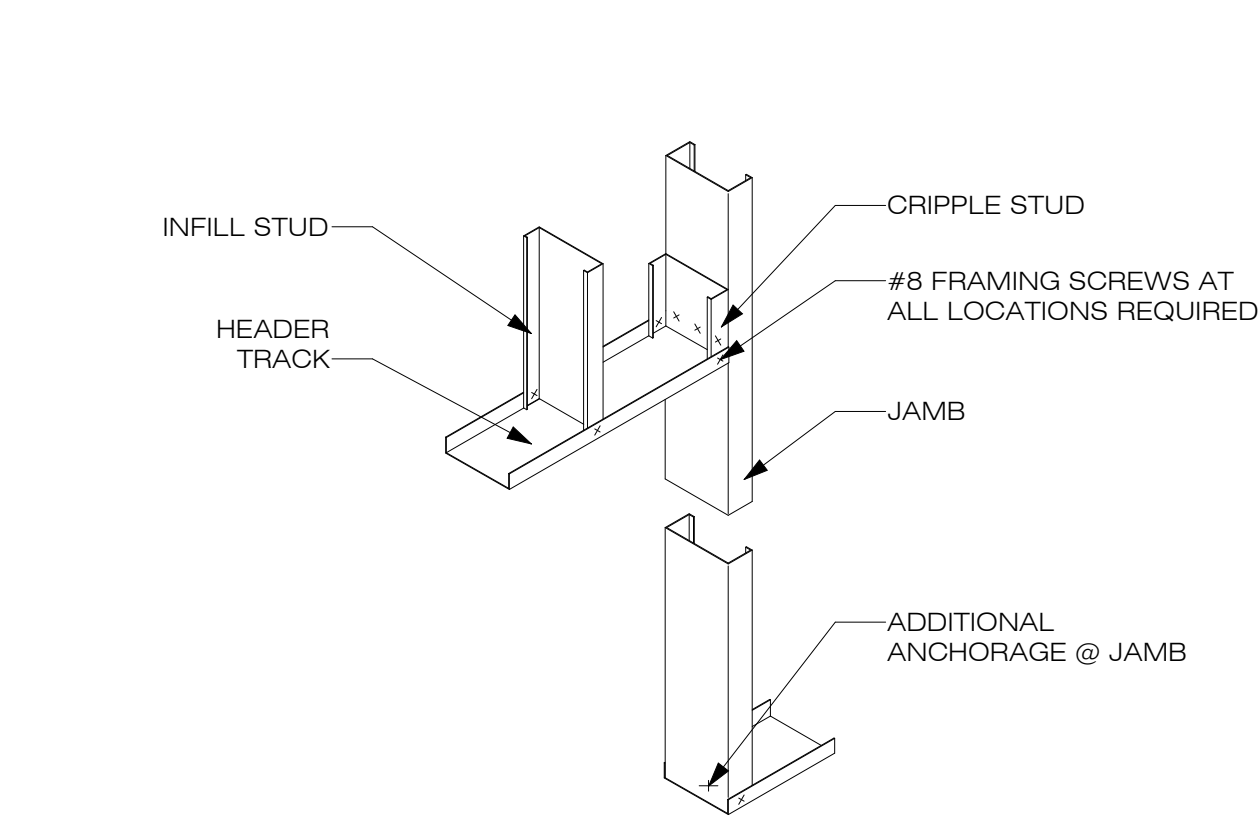


SINGLE TRACK HEADER - BACK TO BACK JAMB

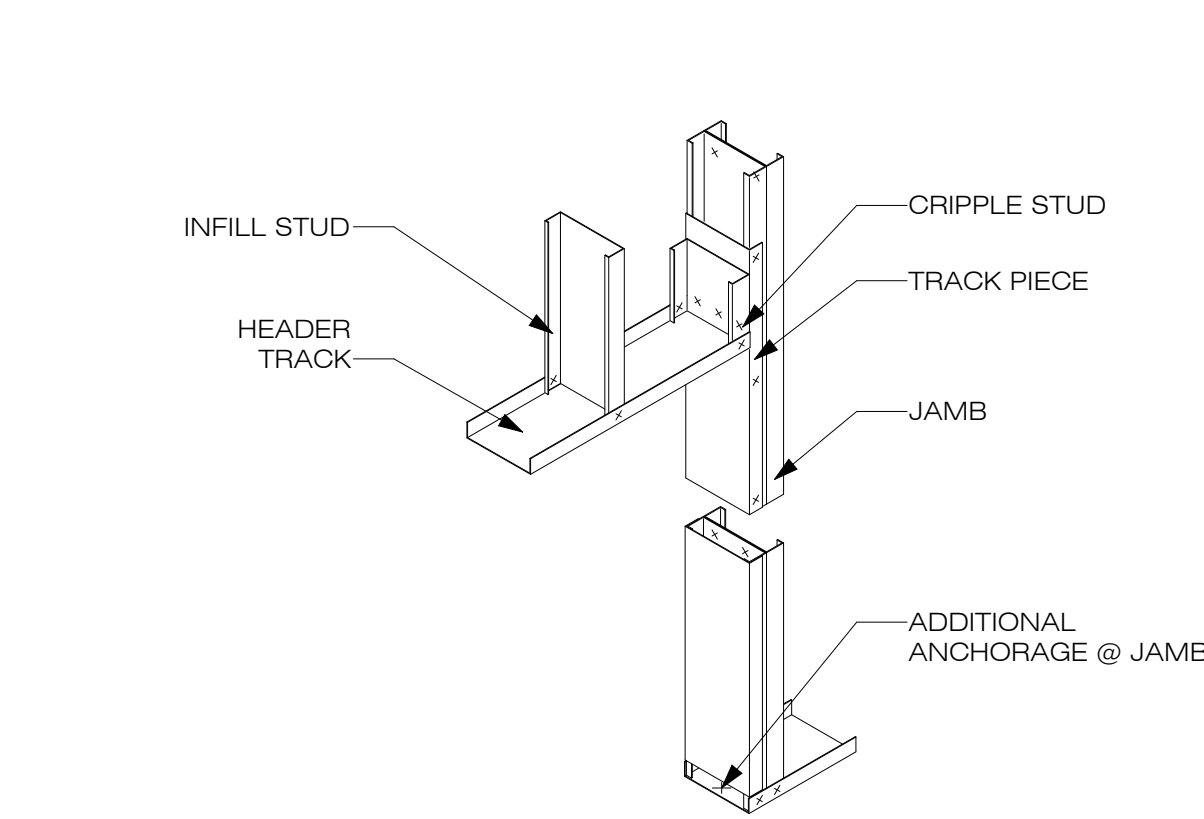
USE FOR SPANS OVER 5'-6"



SINGLE TRACK HEADER - SINGLE JAMB



SINGLE TRACK HEADER - SINGLE JAMB



SINGLE TRACK HEADER - BACK TO BACK JAMB

USE FOR SPANS OVER 5'-6"

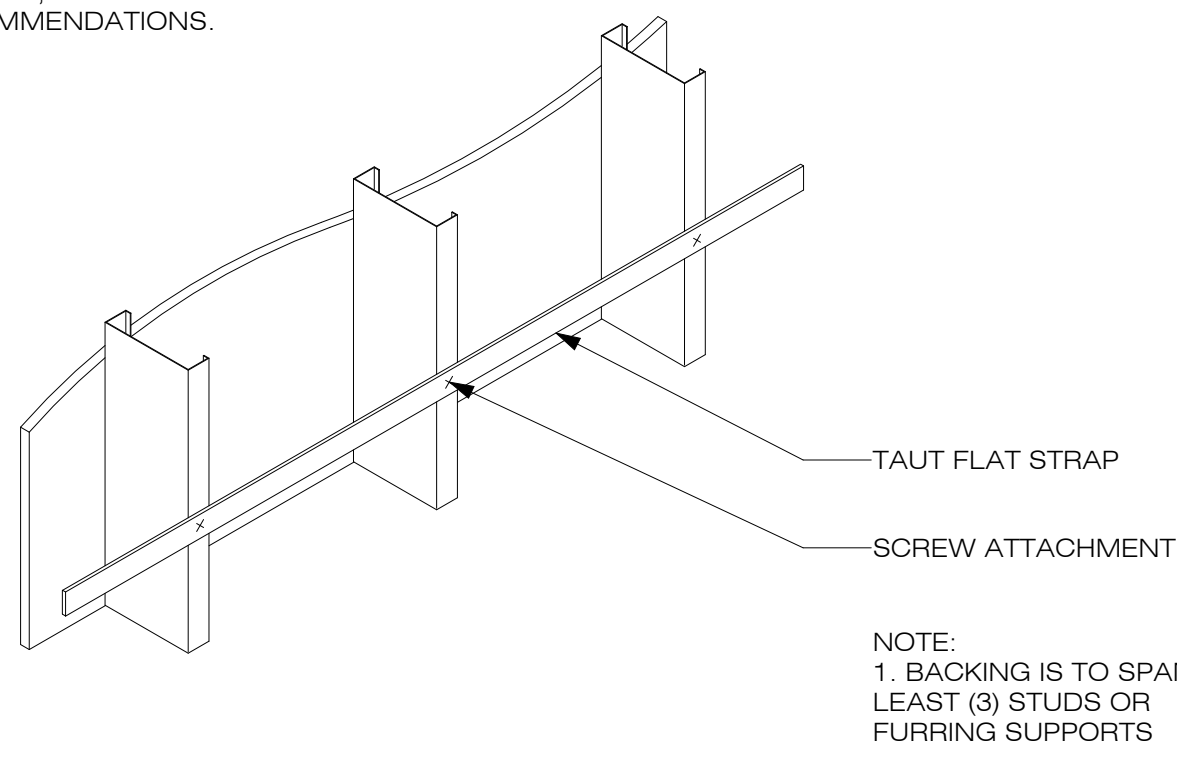
2 NON-LOAD BEARING DOOR

3/4" = 1'-0"

NOTES:
USE FOR LIGHTWEIGHT
ATTACHMENTS SUCH AS
ACCESSORIES, SMALL SHELVES,
OR TRIM.

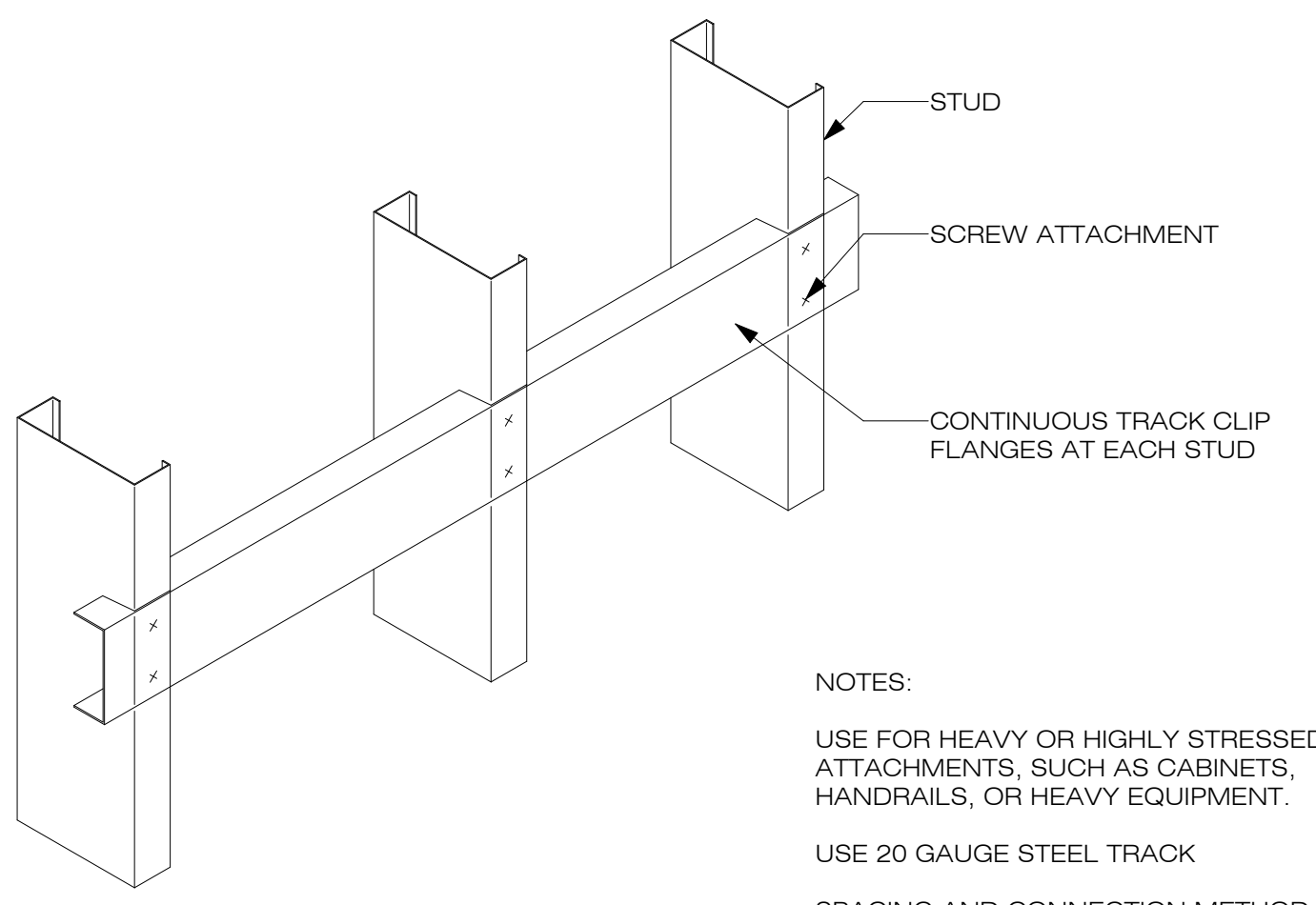
USE 20 GAUGE STEEL STRAPS

SECURE BLOCKING TO STUDS WITH
SCREWS, PER MANUFACTURER'S
RECOMMENDATIONS.



FLAT STRAP

LIGHTLY LOADED



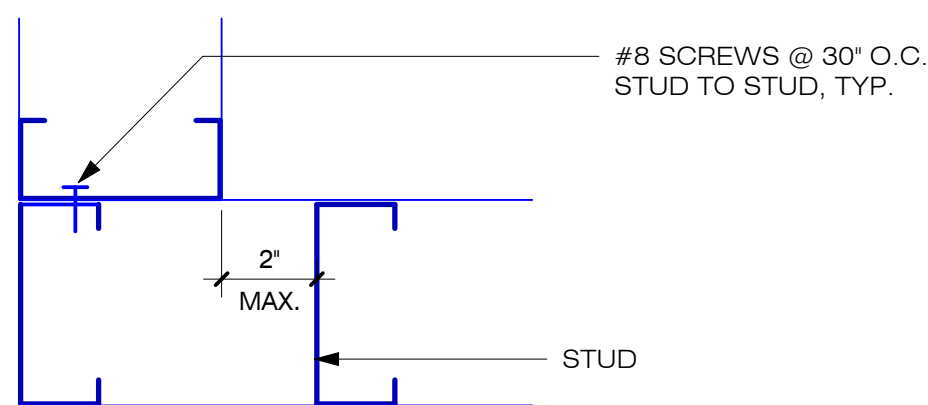
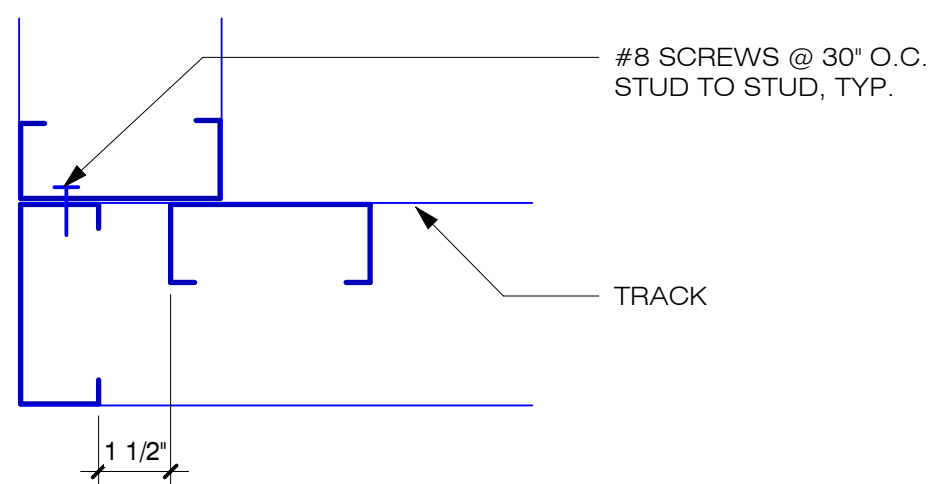
FLAT STRAP

HEAVY LOADED

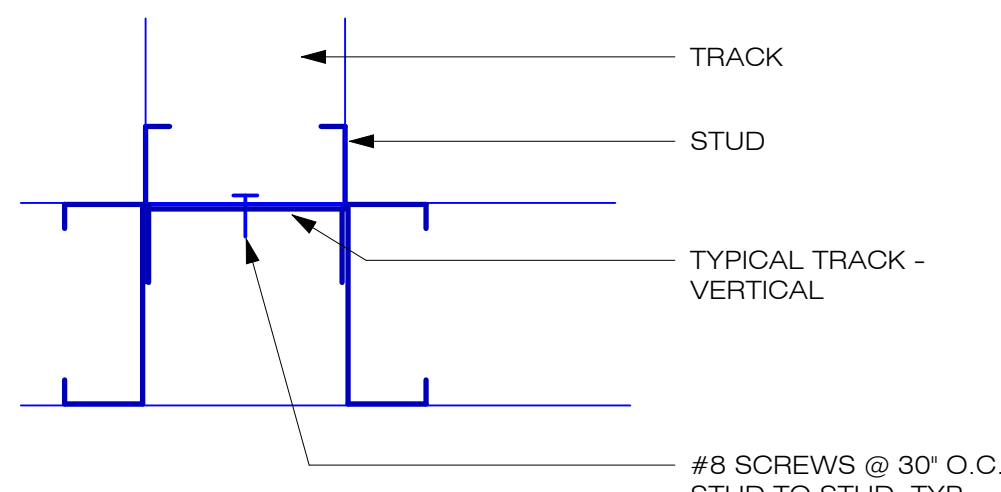
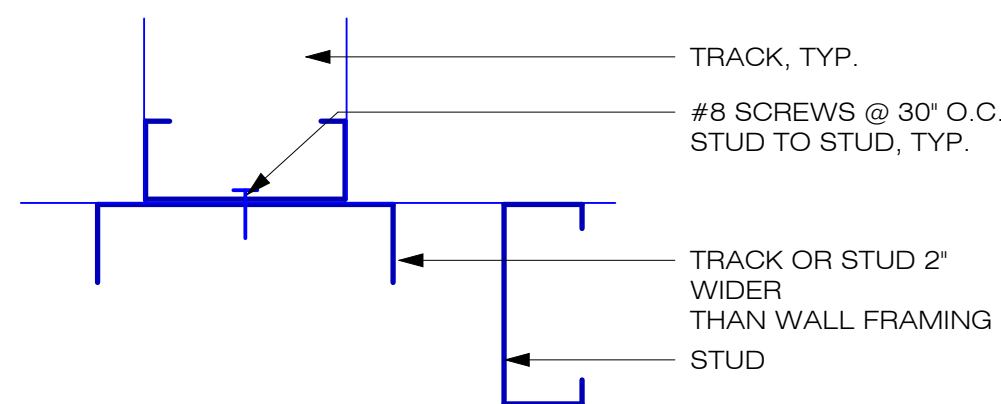
NOTES:
USE FOR HEAVY OR HIGHLY STRESSED
ATTACHMENTS, SUCH AS CABINETS,
HANDRAILS, OR HEAVY EQUIPMENT.
USE 20 GAUGE STEEL TRACK
SPACING AND CONNECTION METHOD
SHALL CONFORM TO SSMA
GUIDELINES UNLESS OTHERWISE
INDICATED.

4 BLOCKING/ BACKING DETAILS

1" = 1'-0"



TYPICAL CORNERS



TYPICAL INTERSECTIONS

5 STUD TO STUD CONNECTION DETAILS

3" = 1'-0"

GENERAL NOTES

1. ACCEPTABLE LIGHT GAUGE METAL FRAMING MANUFACTURERS

MANUFACTURER	ICC EVALUATION REPORT NUMBER
CLARK DIETRICH	ESR-1166P
DAIRNO WARE	ESR-2820
CEMCO METAL FRAMING	ESR-3016
CERTIFIED STEEL STUD ASSOCIATION (CSSA)*	ESR-3016
STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)*	ESR-3064P

*ANY MANUFACTURERS LISTED AND APPROVED TEST EVALUATION REPORT AND REPORT HOLDER
2. PROVIDED MINIMUM 22 GAUGE STUDS - UNLESS HEAVIER GAUGE IS NECESSARY ACCORDING TO THE PUBLISHED HEIGHT LIMITATION TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT. PROVIDE MINIMUM STUD SIZES AS INDICATED UNLESS INCREASED SIZE IS NECESSARY ACCORDING TO THE PUBLISHED TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT OR AS FOLLOWS:

3. INSTALL STUDS AT 16 INCHES ON CENTER TYPICALLY, UNLESS REDUCED SPACING IS NECESSARY ACCORDING TO THE PUBLISHED TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT. DO NOT SPLICE STUDS. PROVIDE STUDS NOT MORE THAN 2 INCHES FROM EACH CORNER OF WALL OR ABUTTING CONSTRUCTION.

4. METAL STUD WALL BLOCKING OR BACKING PLATES: PROVIDE BACKING AS INDICATED AND AS NECESSARY TO SUPPORT ALL PRODUCTS ATTACHED TO WALL AFTER COMPLETION OF FINISH SURFACE, INCLUDING TOILET AND BATCH ACCESSORIES, PLUMBING AND ELECTRICAL FIXTURE, ELECTRICAL PANELS, TOILET PARTITIONS, CASEWORK, HARDWARE, HANDRAILS, TRIM, ETC.

5. BOTTOM TRACK - SECURE TO STRUCTURE USING FASTENERS, FASTENERS:
A. TRACK TO CONCRETE = LOW VELOCITY SHOT PINS TO BE HILTI X-U OR X-P OR EQUAL, ICC REPORT XSR-2269 OR XSR-1752
B. TRACK TO WOOD = SELF-DRILLING METAL TO WOOD SCREWS WITH PLATE WASHERS TO BE HILTI S-MDW OR EQUAL.

6. INSTALL FRAMING IN ACCORDANCE TO WITH ASTM C754

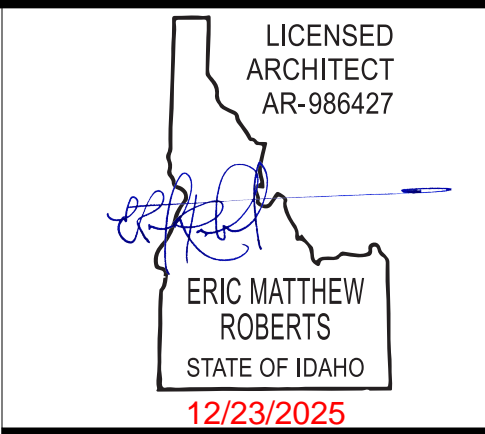
7. METAL FRAMING BOX HEADER SCHEDULE (FOR USE AT NON-BEARING INTERIOR WALLS ONLY):

SPAN	ASSEMBLY
UP TO 4'-0"	(2) 3 5/8" X 20 GA. BOXED HEADER
4'-0" TO < 5'-6"	(2) 4" X 20 GA. BOXED HEADER
5'-6" TO < 9'-0"	(2) 6" X 20 GA. BOXED HEADER
9'-0" TO < 11'-6"	(2) 8" X 20 GA. BOXED HEADER
OVER 11'-6"	(2) 10" X 20 GA. BOXED HEADER / (2) 12" X 20 GA. BOXED HEADER



ISSUE DATE: **12.15.2025**

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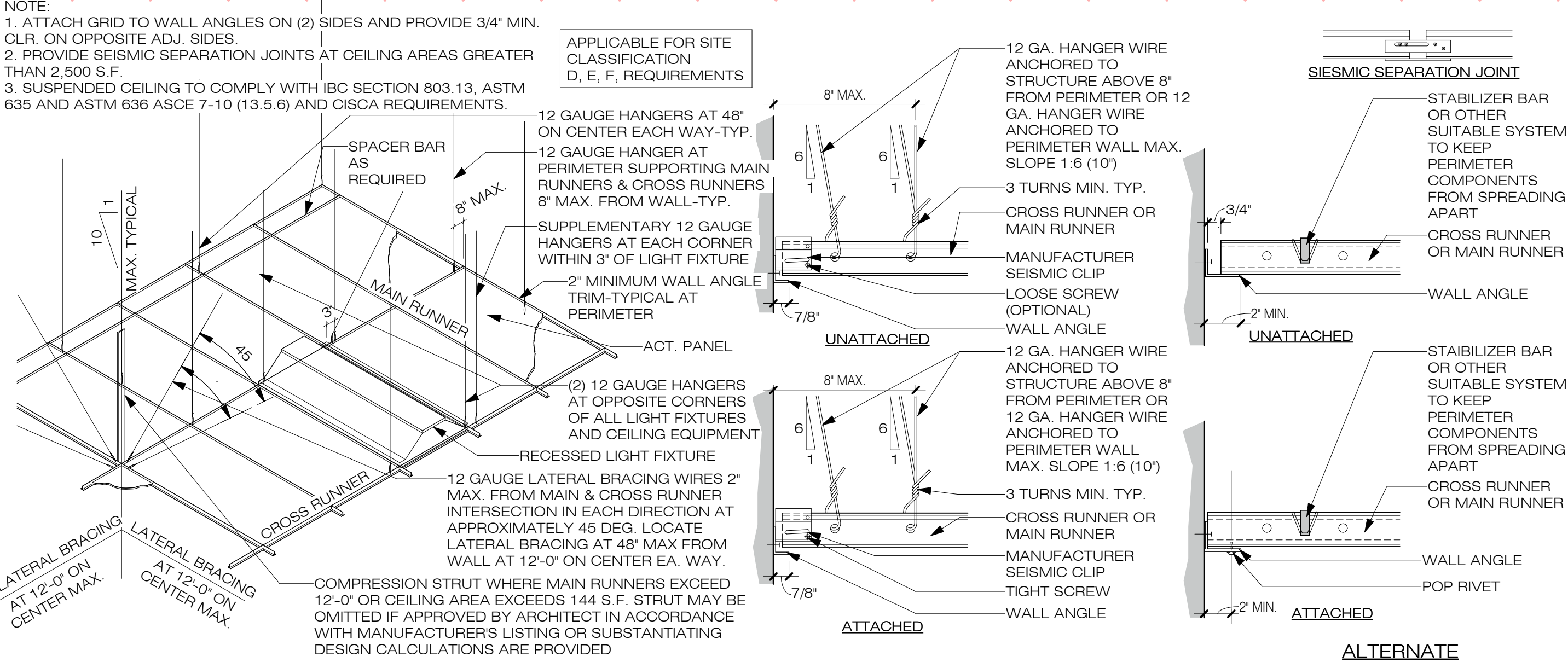


TYPICAL NON-LOAD BEARING PARTITION FRAMING
DETAILS
LCSC MLT/PA LAB
Sam Glenn Complex 500 4th St. Lewiston, ID 83501
Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: **240216**

A2.41



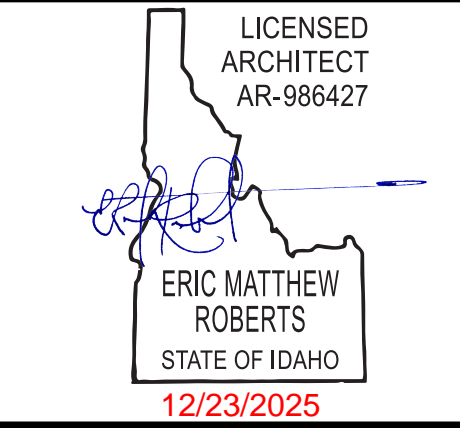
1

SUSPENDED ACOUSTICAL CEILING TILE - SEISMIC ZONE D

1/2" = 1'-0"

M113-01

ISSUE DATE: 12.15.2025		
REV	DATE	COMMENT
2	12.15.25	BID RFI CLARIFICATIONS



CEILING DETAILS

LCSC MLT/PA LAB

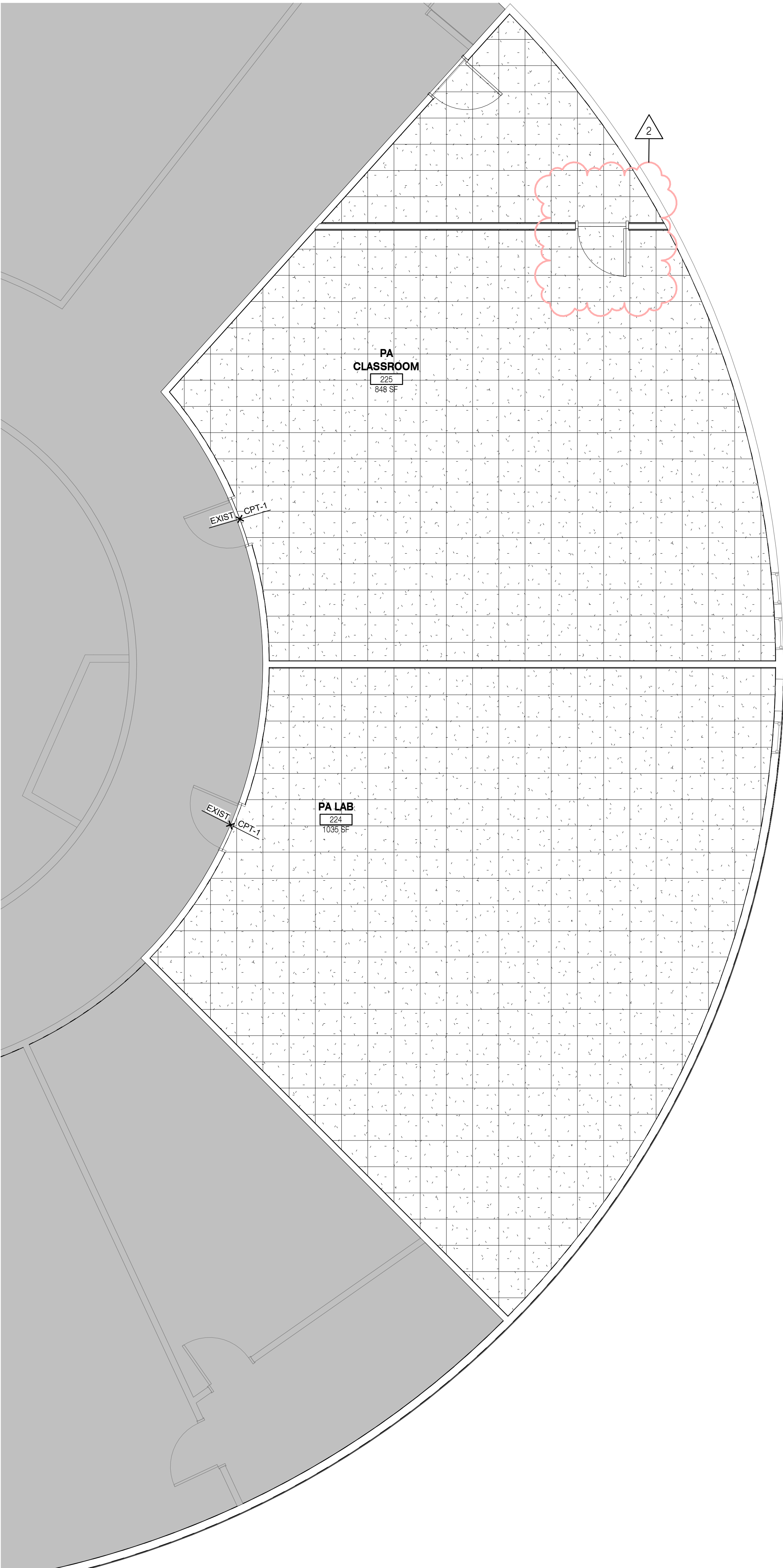
Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE	PROJECT	CLIENT
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JOB NO: 240216

A3.31



FLOOR PLAN - LEVEL 2

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

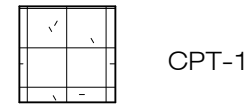
ROOM FINISH SCHEDULE

ROOM #	NAME	BASE	FLOOR	WALLS	CEILING	REMARKS
224	PA LAB	RB-1	CPT-1	PT-1	ACT-1	
225	PA CLASSROOM	RB-1	CPT-1	PT-1	ACT-1	
226	DL BOOTH	RB-1	CPT-1	PT-1	ACT-1	
227	Room					

FINISH LEGEND

- MANUFACTURER: STYLE/MODEL - COLOR
- PAINT**
PT-1 SHERWIN WILLIAMS PROMAR 200, SHEEN: SEMI-GLOSS, COLOR: RAINIER WHITE OR APPROVED EQUAL
- CARPET**
CPT-1 NEXT FLOOR BANDWIDTH 883 - TILE SIZE: 19.7' X 19.7', COLOR: COMMODORE BLUE OR APPROVED EQUAL
- WALL BASE**
RB-1 FLEXCO RUBBER BASE, 4", COLOR TO BE SELECTED BY OWNER OR APPROVED EQUAL
- PLASTIC LAMINATE**
PLAM-1 WILSONART LAMINATES, COLOR TO BE SELECTED BY OWNER OR APPROVED EQUAL
- CEILING**
ACT-1 ARMSTRONG FINE FISSURE DROP-IN TILE, 2X4 ACT CEILING TILES, EDGE SQUARE, 15/16" GRID (WHITE) OR APPROVED EQUAL

FINISH PLAN LEGEND



CPT-1

NOTE: PROVIDE 1/4" PLYWOOD UNDERLAYMENT SCREW (OR EQUAL) TO EXISTING SUB FLOOR, WHERE CPT-1 IS CALLED OUT ON DRAWINGS

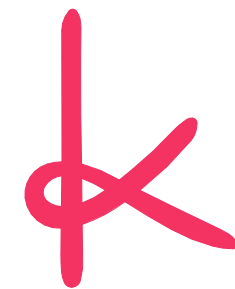
TRANSITIONS / EDGES

RESILIENT ACCESSORIES

1. WHEELED TRAFFIC
(CARPET) (EXISTING CARPET)

NOTES:

A. PROVIDE RESILIENT FLOORING ACCESSORIES AT FLOORING MATERIAL TRANSITIONS AND OPEN EDGES, COLOR TO MATCH RESILIENT FLOORING.



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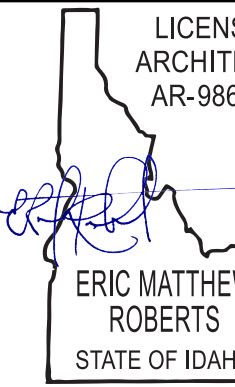
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REV DATE COMMENT
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FINISH PLAN

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

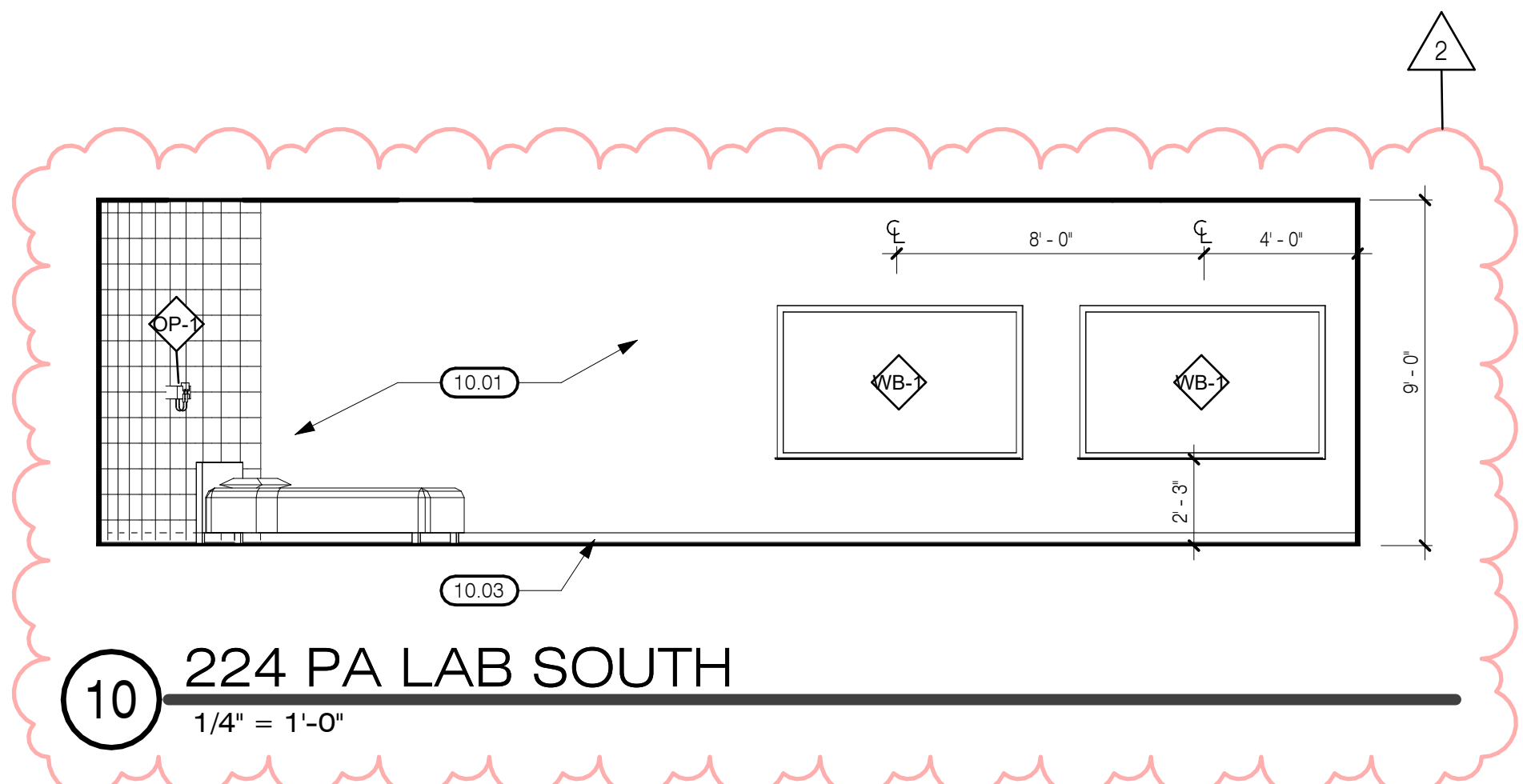
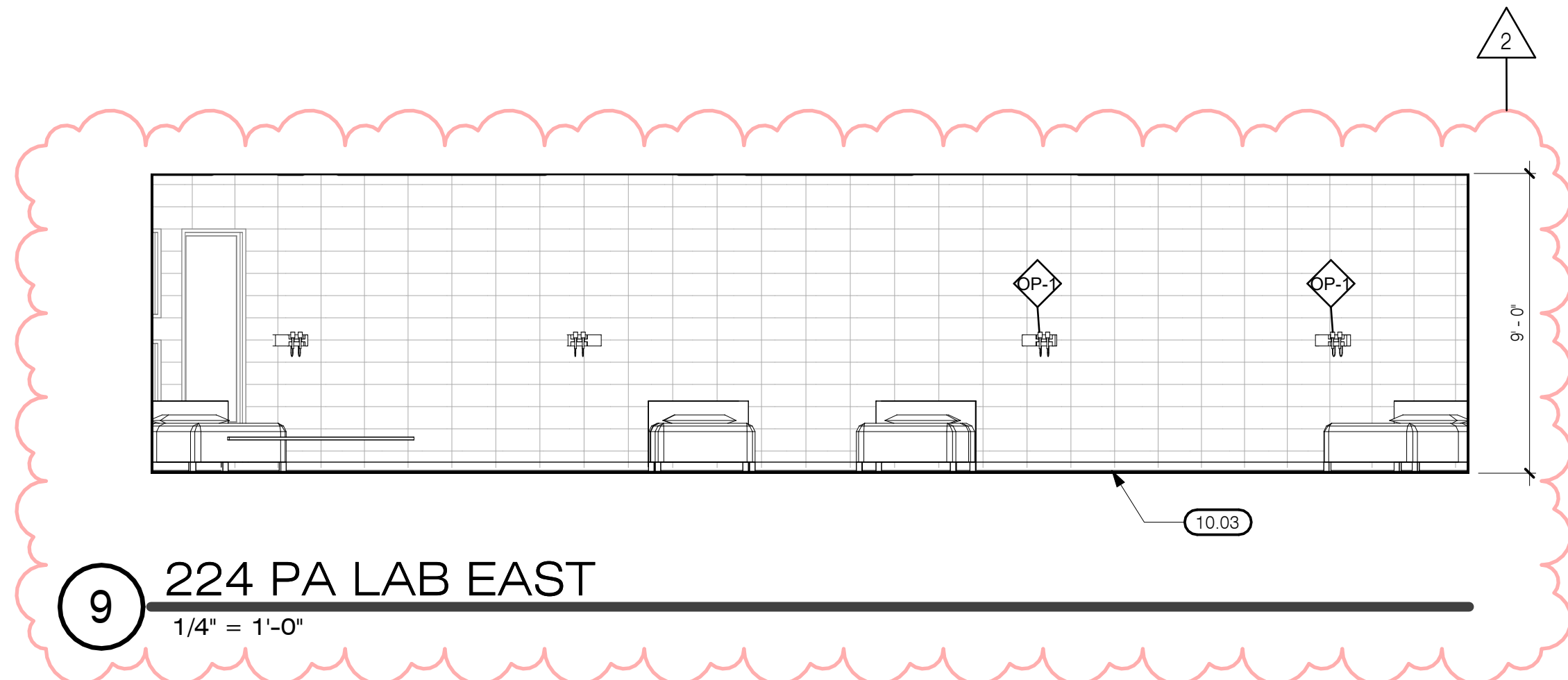
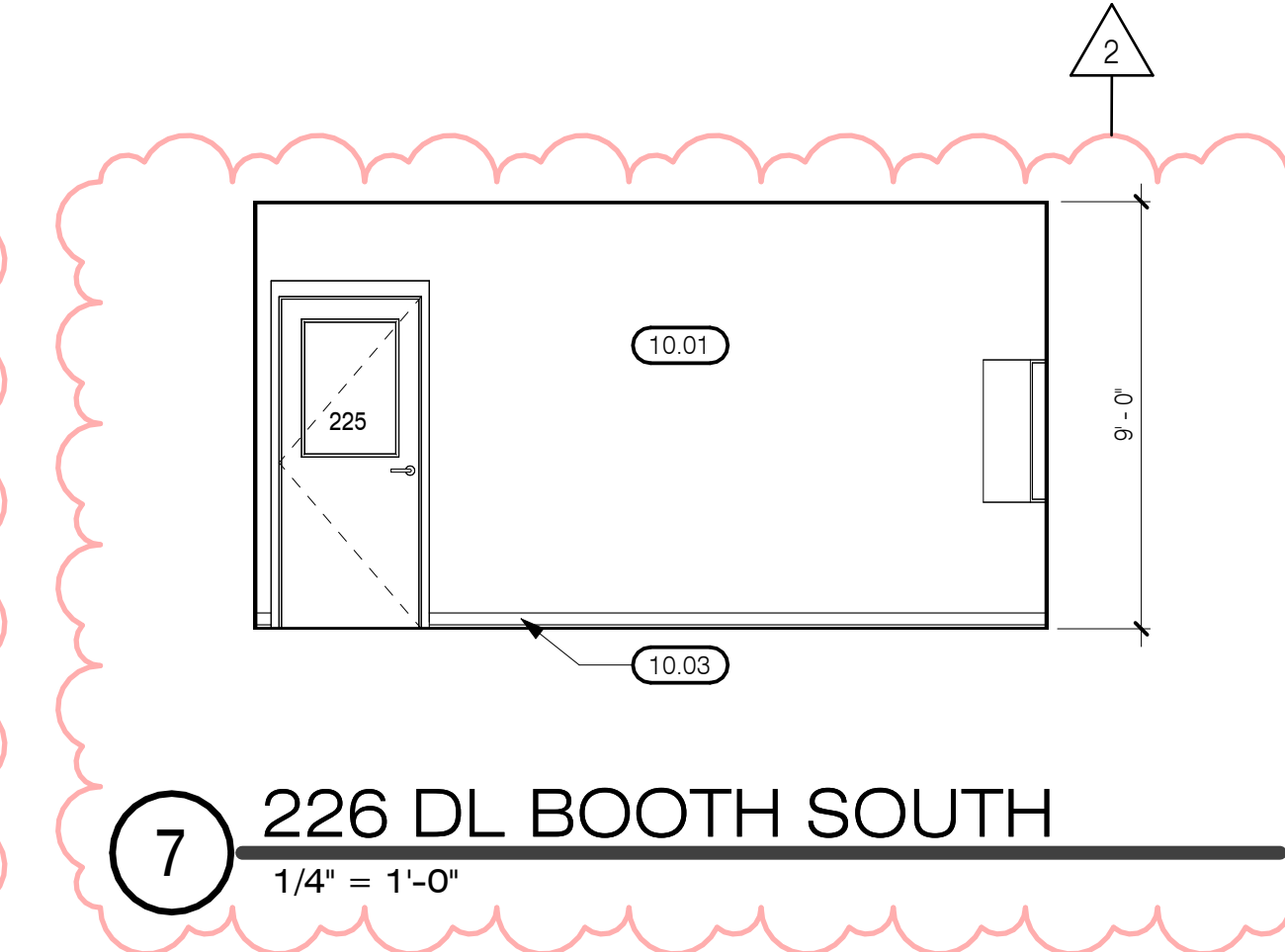
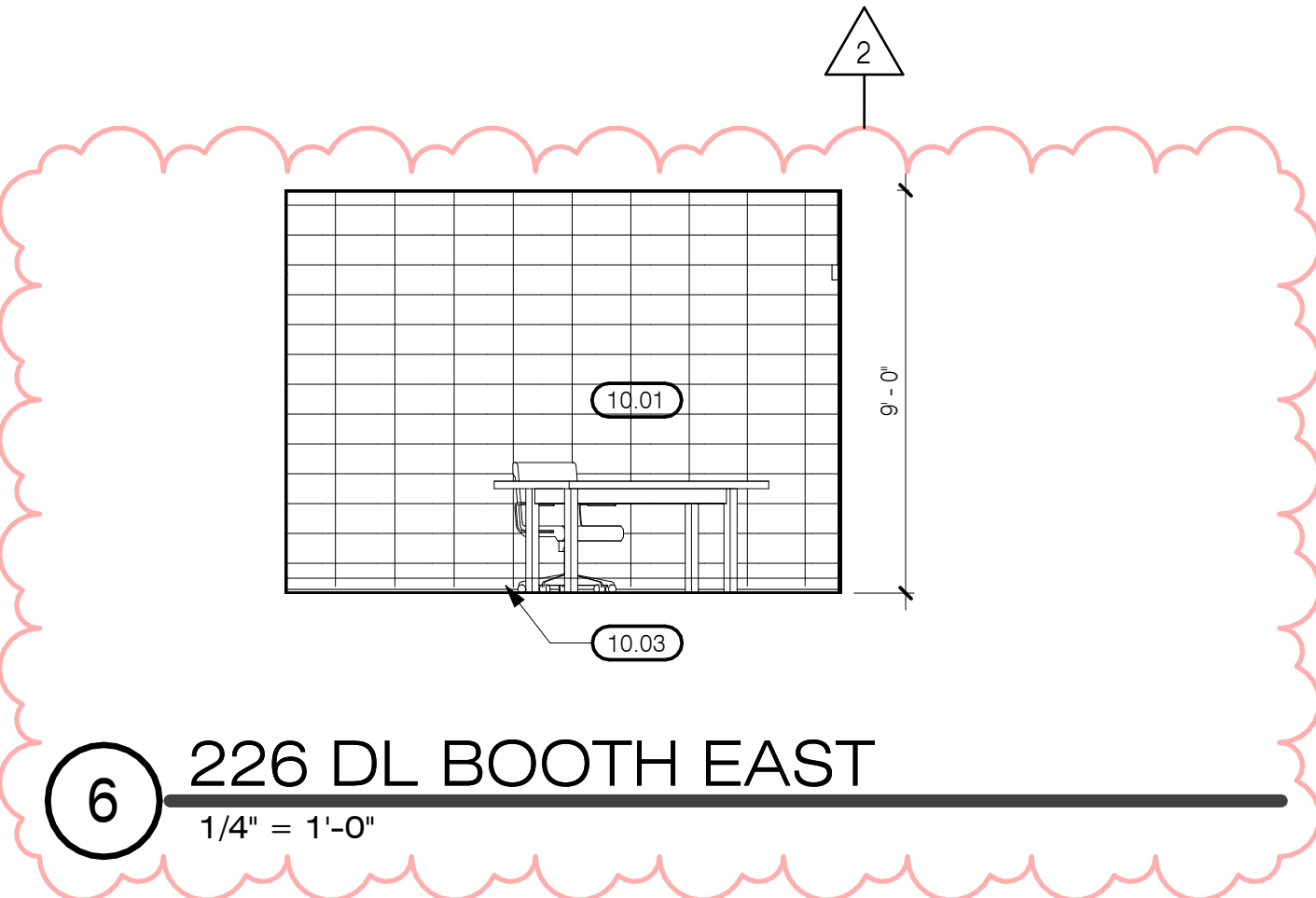
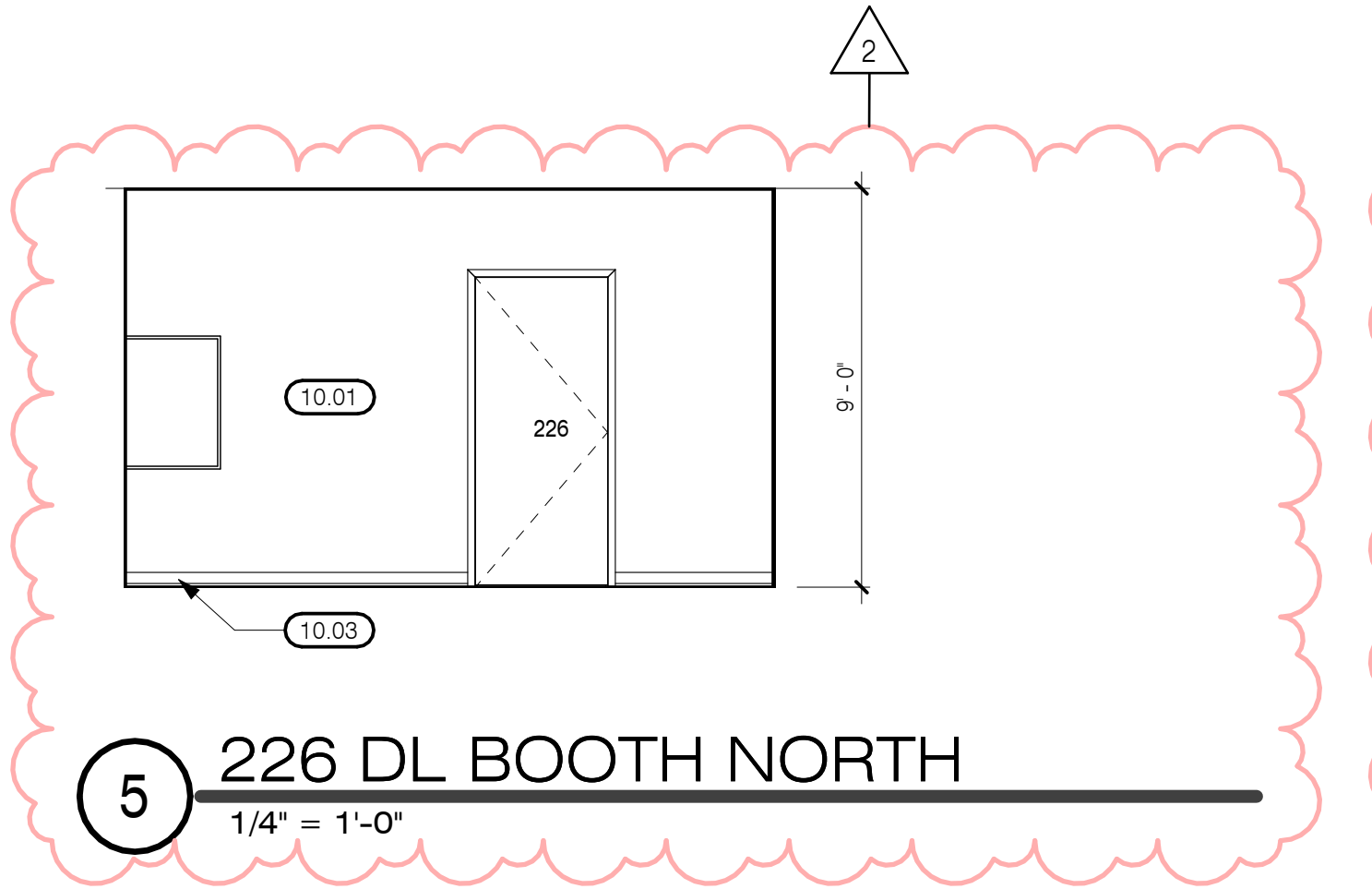
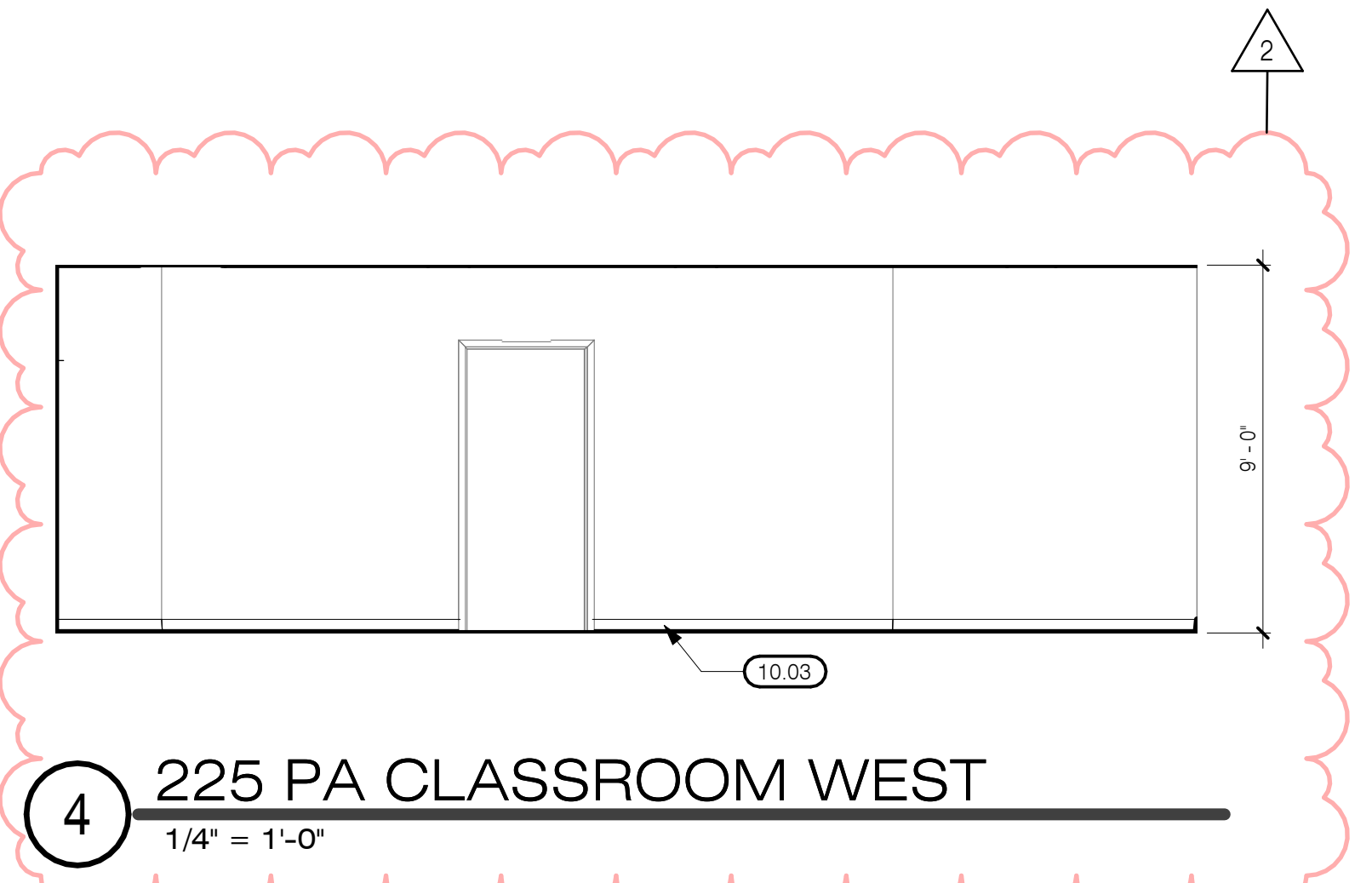
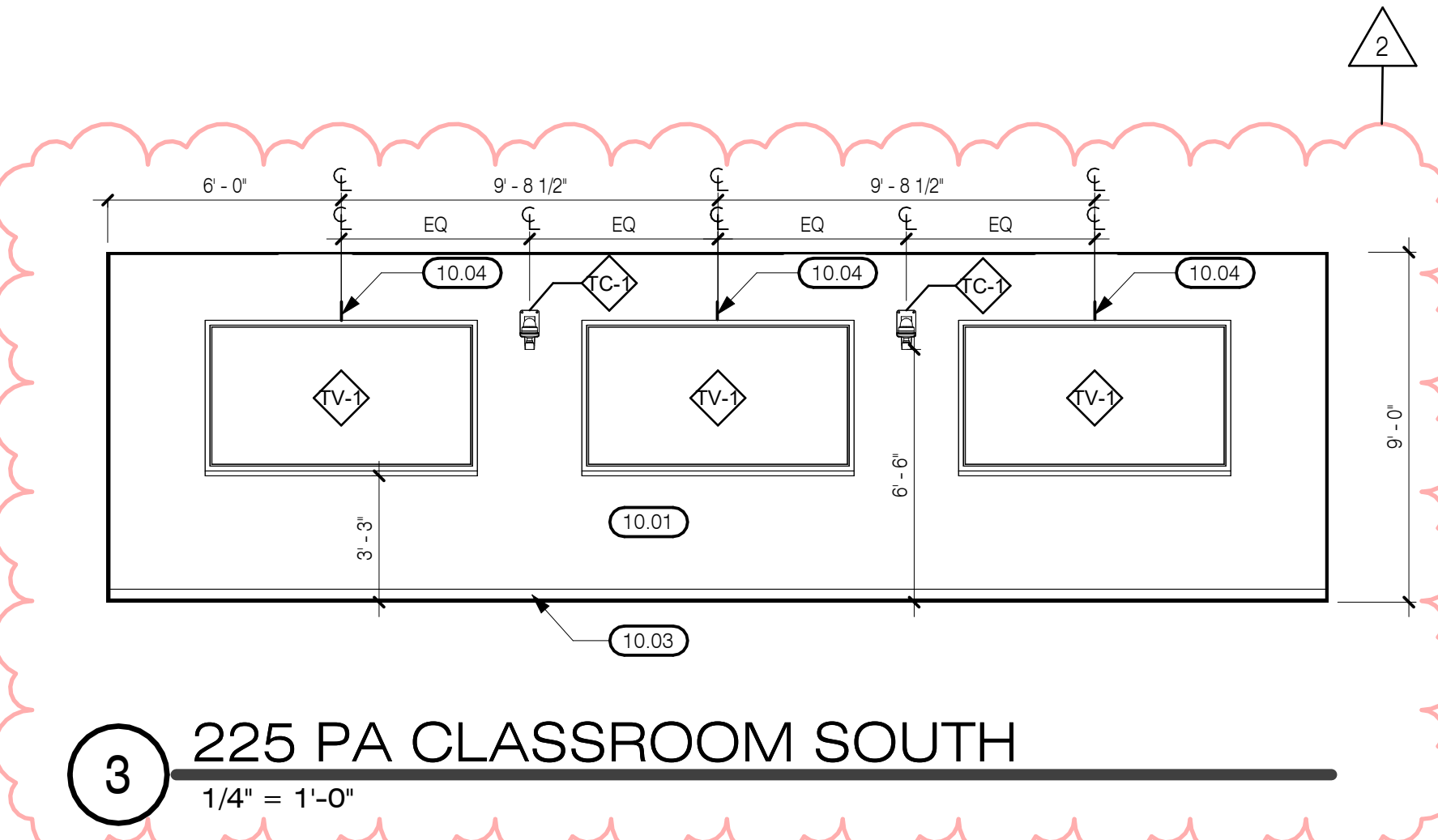
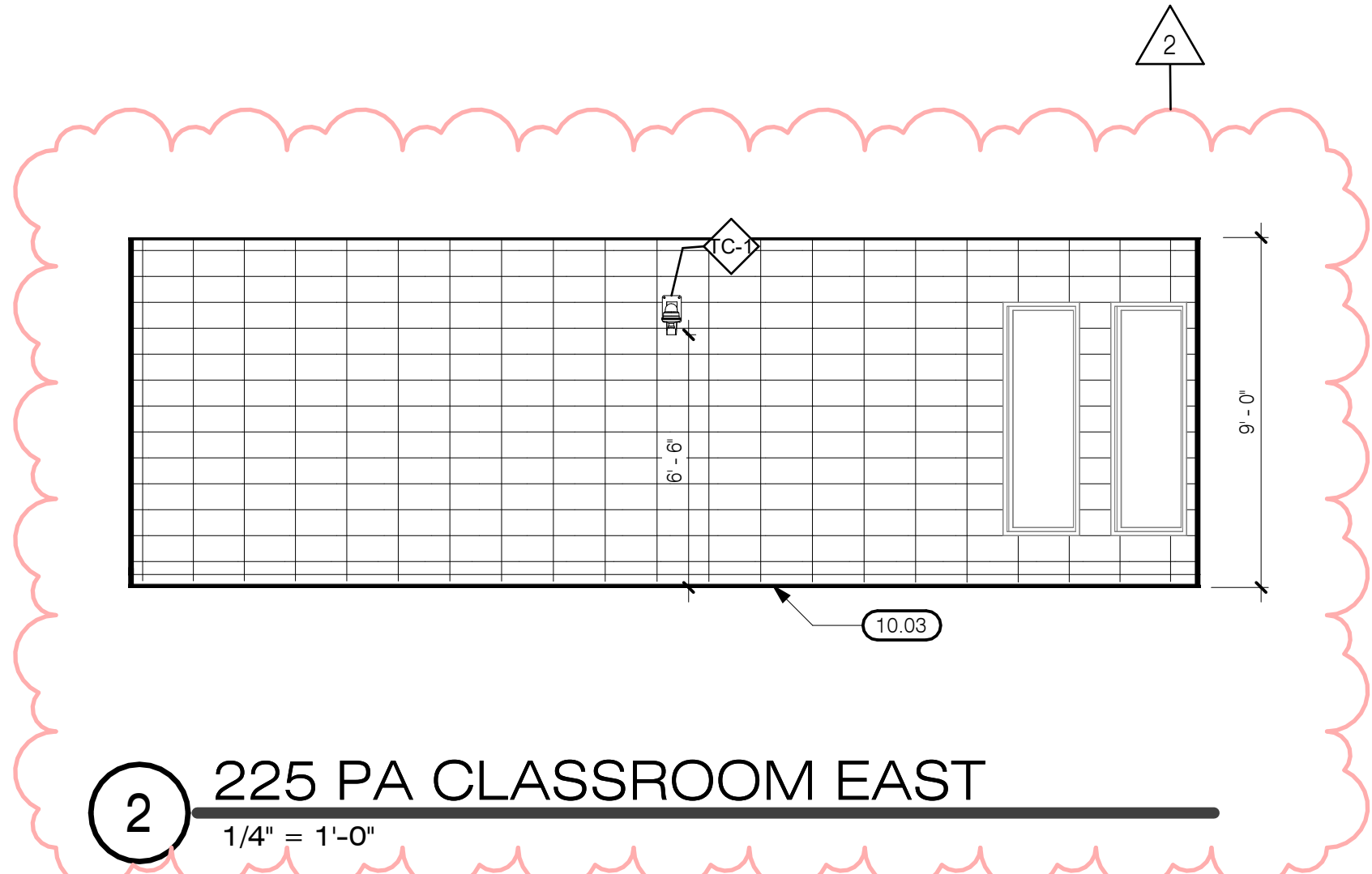
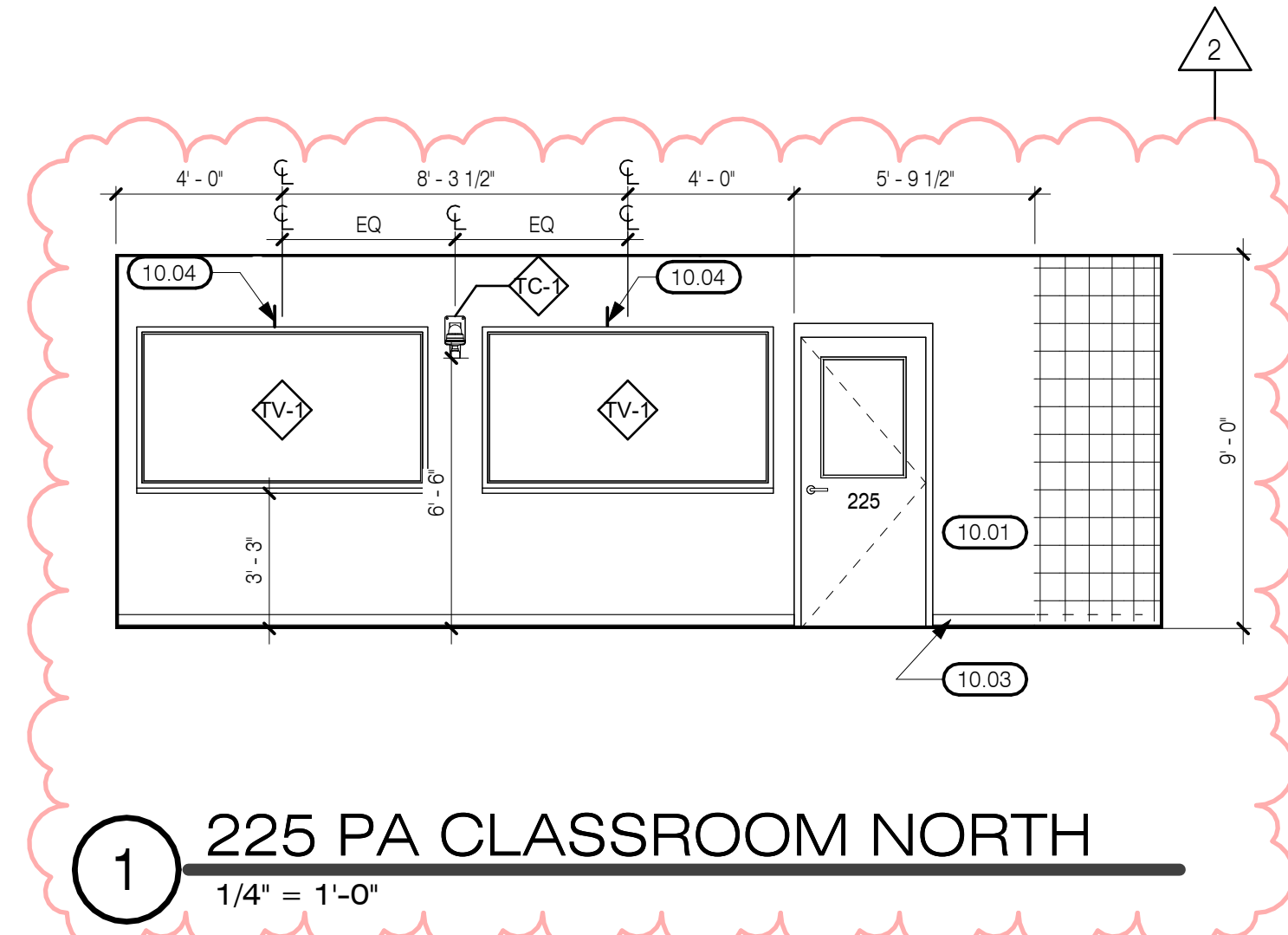
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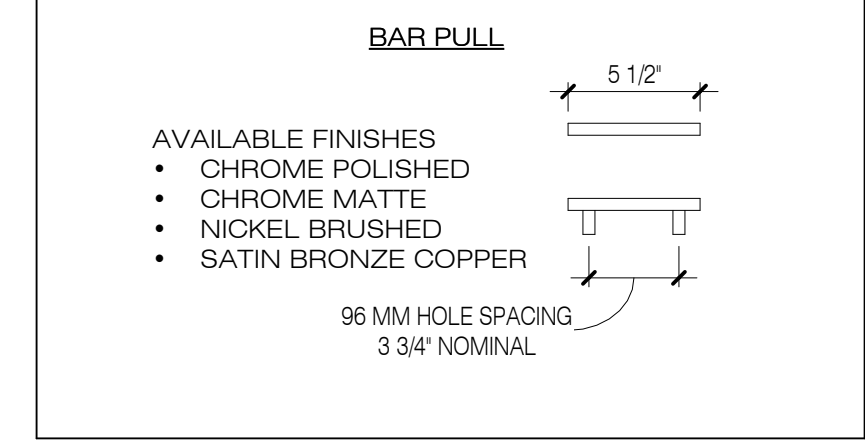
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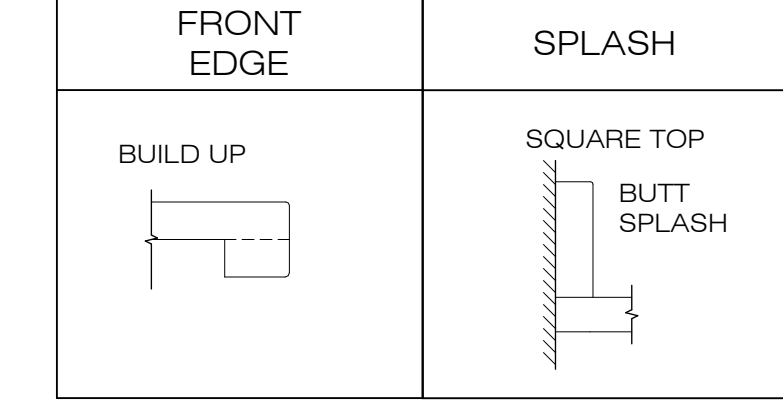


CASEWORK CONFIGURATIONS			
CONSTRUCTION TYPE	DOOR INTERFACE STYLES	DRAWER & DOOR STYLES	EDGE BANDING
FACE FRAME	FLUSH OVERLAY	FLUSH	SQUARE W/ THK. APPLIED

CABINET HARDWARE



COUNTERTOPS



KEYNOTES

2.10	MESH METAL PANEL ON ONE SIDE OF NEW CABINET
2.16	NEW BUILT IN COUNTER WITH CABINET BELOW, PLAM-1
10.01	PAINT PT-1
10.03	WALL BASE, RB-1
10.04	CONDUIT LINE TO MONITORS, SEE ELECTRICAL

EQUIPMENT SCHEDULE

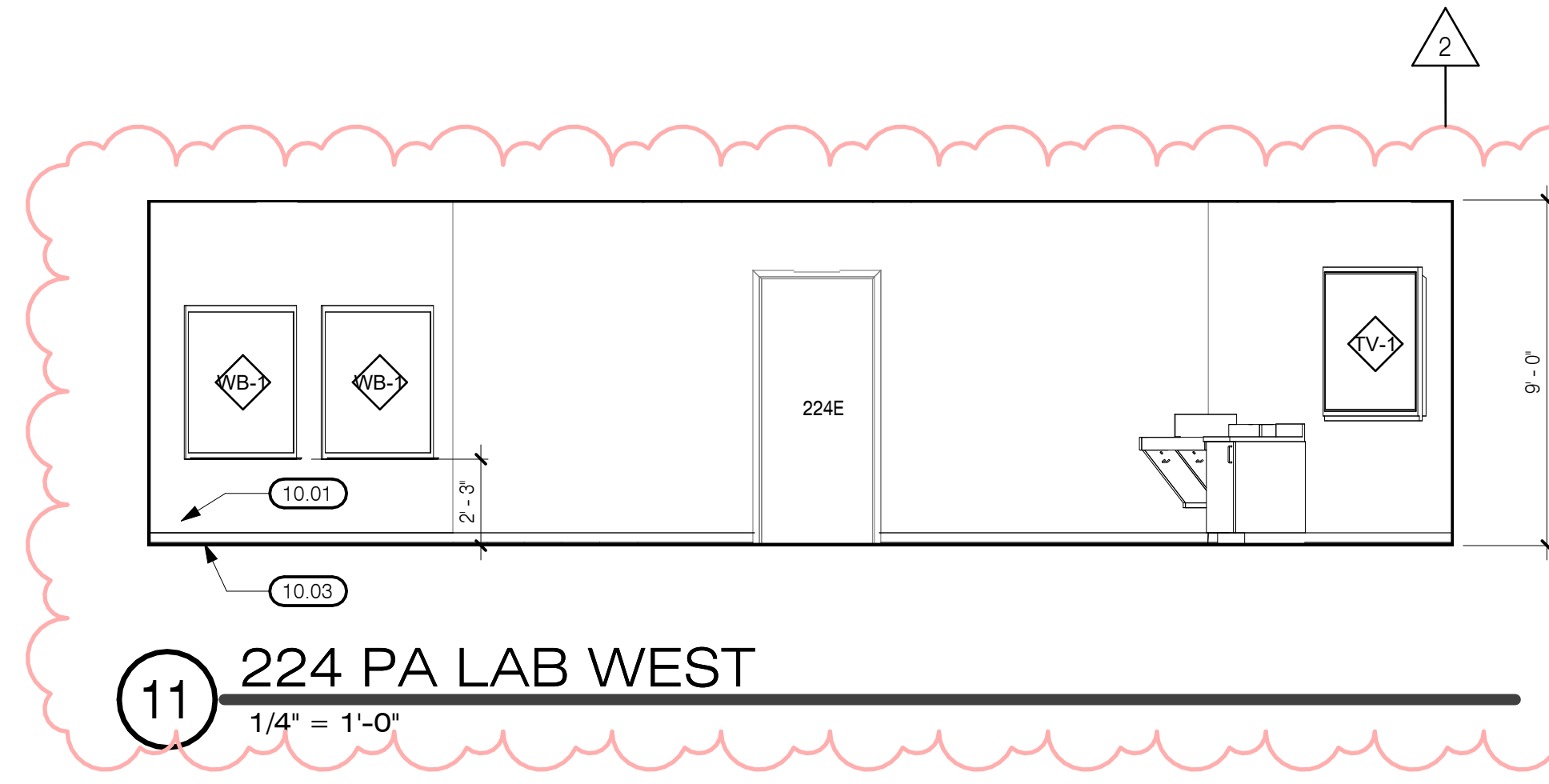
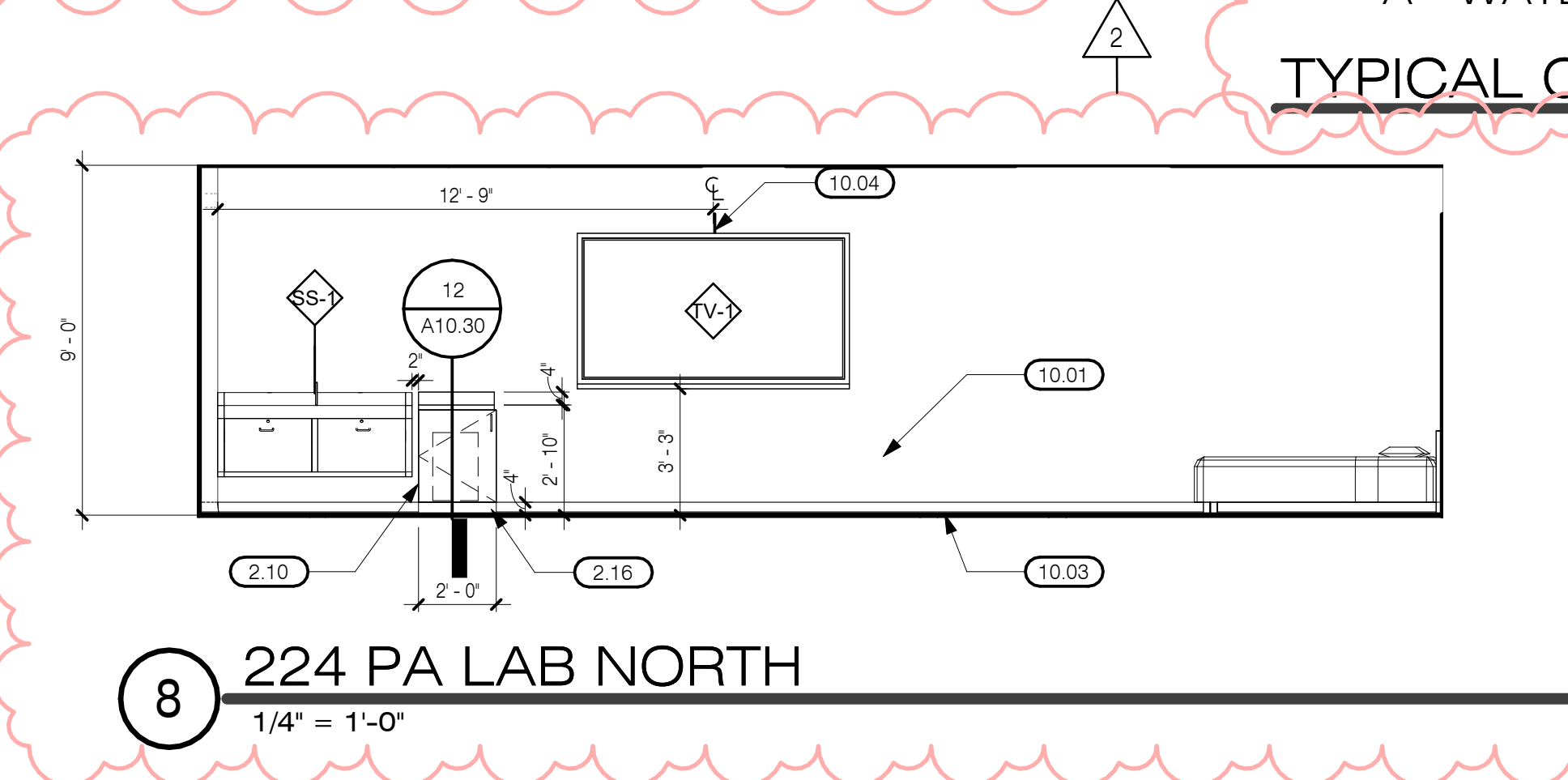
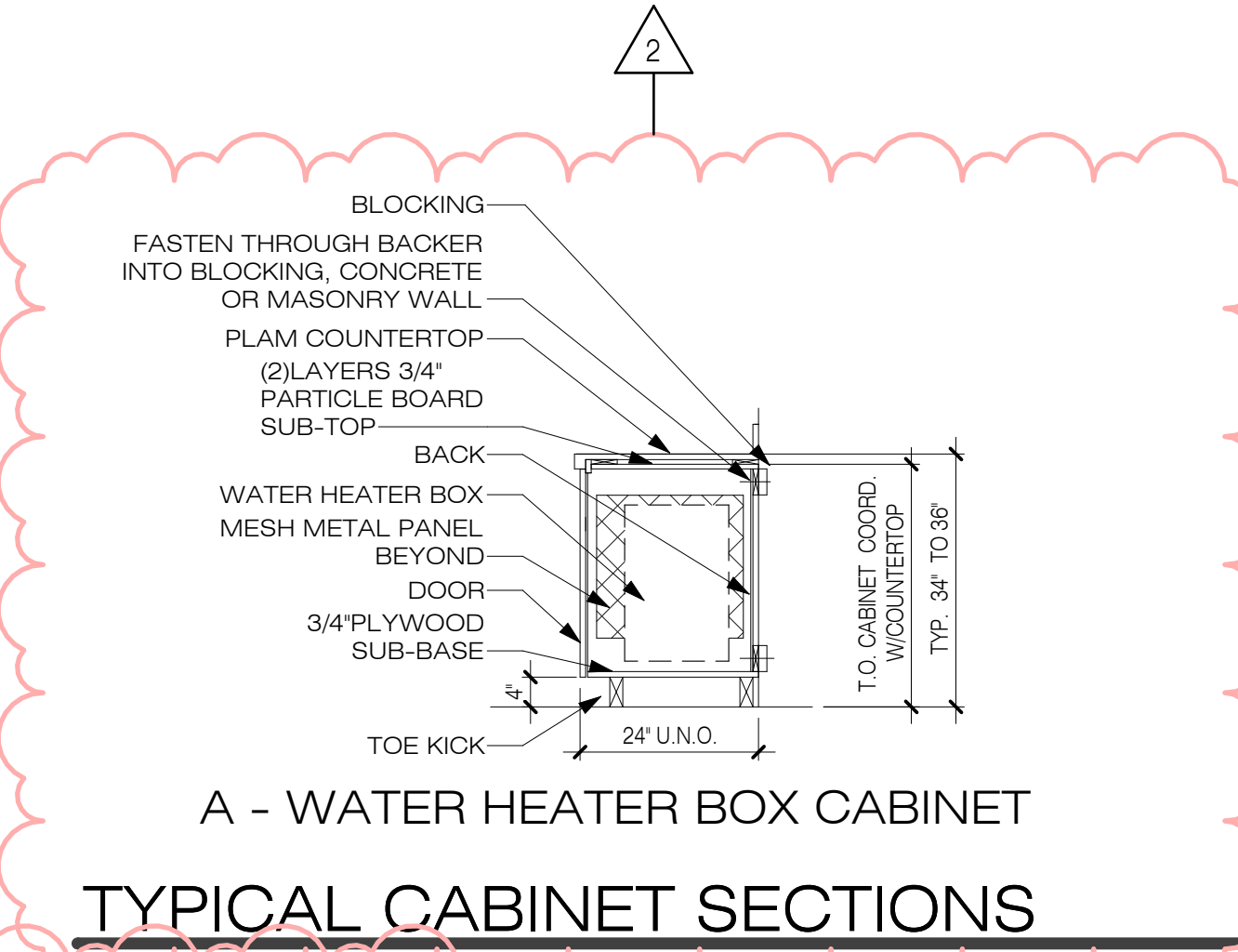
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
DC-1	DRESSING ROOM CURTAIN AND TRACK	-	-	C.F.C.I
OP-1	WALL MOUNTED OPHTHALMOSCOPE AND OTOSCOPE	-	-	C.F.C.I
SS-1	STAINLESS WALL HUNG DOUBLE STATION SURGEON SCRUB SINK KIT	Ekey Manufacturer Company	EWSF260262	C.F.C.I
TC-1	TEACHING CAMERA	-	-	O.F.O.I
TV-1	DISPLAY MONITORS WITH MONITOR MOUNT	CHEF	LTM1U	O.F.O.I (MONITOR C.F.C.I MOUNTS)
WB-1	WHITEBOARD	EXISTING	EXISTING	SALVAGED WHITEBOARDS TO BE RELOCATED

SHEET CASEWORK NOTES

- PROVIDE FILLER & FILLER PANELS WHERE SHOWN ON ELEVATIONS OR NECESSARY. SCRIBE TO WALL. FINISH TO MATCH EXPOSED CABINETS SURFACES.
- PROVIDE BLOCKING IN WALLS AND PARTITIONS AT ALL CABINETS LOCATIONS.
- CABINETS SHALL BE SECURED TO WALL WITH A MIN. 3"x10" DIAMETER SCREW WITH A SURFACE BEARING HEAD. AT EXPOSED INTERIOR SURFACES, COVER CAPS OF COMPATIBLE COLOR TO INTERIOR ARE REQUIRED. FASTENERS SHALL BE SPACED AT 16" O.C. MAX. EACH CABINET OR UNIT SHALL HAVE A MIN. OF FOUR (4) FASTENERS, TWO AT TOP AND TWO AT BOTTOM.
- ADJACENT CABINET UNITS TO BE FASTENED TOGETHER AT THE FRONT WITH A MINIMUM OF TWO (#8 X 1-1/4" (81.7 MM) FLAT, OVAL, OR PAN HEAD SCREWS, A MAXIMUM OF 30" (762 MM) ON CENTER, AND BINDER HEAD SEX BOLTS ARE PERMITTED, AT EXPOSED INTERIOR SURFACES, COVER CAPS OF COMPATIBLE COLOR TO INTERIOR ARE REQUIRED.
- PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER CABINETS TO CLOSE OFF ALL CONCEALED SPACES.
- CABINET HARDWARE SHALL CONFORM TO ANSIBHMA STANDARDS (LATEST EDITION), FOR QUALITY GRADE SPECIFIED.
- DOOR PULLS SHOULD BE PLACE 2-1/2" UP FROM THE BOTTOM OF THE DOOR FOR UPPER CABINETS.
- DOOR PULLS SHOULD BE PLACE 2-1/2" DOWN FROM THE TOP OF THE DOOR FOR LOWER CABINETS.
- DOOR PULLS FOR TALL DOORS OR MIDDLE CABINET DOORS SHOULD BE CENTERED VERTICALLY ON THE DOOR.
- DRAWER PULLS SHOULD BE CENTERED HORIZONTALLY AND VERTICALLY ON STANDARD DRAWERS.
- DRAWER PULLS SHOULD BE PLACED 2 1/2" DOWN FROM THE TOP OF THE DRAWER FOR DEEP OR FILE DRAWERS.
- DOOR HINGES SHALL BE 120 DEGREE OPENING.
- PROVIDE SELF-ADHESIVE RUBBER DISC DOOR AND DRAWER BUMPERS AT ALL DOOR AND DRAW LOCATIONS.
- CASEWORK FABRICATOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECT REVIEW AND APPROVAL, PRIOR TO FABRICATION.

PROJECT NOTES

- CASEWORK GRADING
- ALL CASEWORK SHALL BE CUSTOM GRADE IN ACCORDANCE WITH AWS SPECIFICATIONS, U.N.O.
- CABINET CONSTRUCTION TYPE & DOOR INTERFACE STYLES
- ALL CASEWORK SHALL BE FRAMELESS CONSTRUCTION TYPE WITH FLUSH OVERLAY DOOR INTERFACE STYLE, AND FLUSH DRAWER AND DOOR FRONTS, U.N.O.
- COUNTERTOPS, CONFIGURATIONS & COUNTERTOP EDGES
- ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE, BUILD UP EDGE AND BUTT SPLASH WITH SQUARE TOP, U.N.O.
 - PROVIDE MATCHING SIDE AND BACKSLASHES WHERE COUNTERTOPS ABUT A VERTICAL WALL SURFACE.
- DOOR & DRAWER STYLES
- ALL DOOR AND DRAWERS TO BE FLUSH STYLE, U.N.O.
- EDGE BANDING
- ALL EXPOSED DOOR, DRAWER, AND SHELF EDGES SHALL BE SQUARE HIGH PRESSURE DECORATIVE LAMINATE TO MATCH EXTERIOR CABINET SURFACES, U.N.O.
 - ALL TOE KICKS SHALL MATCH CABINET EXPOSED EXTERIOR SURFACE.
- CABINET HARDWARE
- PROVIDE VERTICAL DOOR & HORIZONTAL DRAWER PULLS, METAL WIRE PULL, U.N.O.
 - HINGES SHALL BE EUROPEAN STYLE (INSET), U.N.O.
- CABINET FINISHES
- ALL EXPOSED TO VIEW EXTERIOR CABINET SURFACES SHALL BE HIGH PRESSURE DECORATIVE PLASTIC LAMINATE, U.N.O., COLOR AS SELECTED BY OWNER FROM MANUF. FULL RANGE OF STANDARD COLORS.
 - ALL INTERIOR (SEMI-EXPOSED) SURFACES SHALL BE HIGH PRESSURE DECORATIVE LAMINATE, COLOR-WHITE, U.N.O.



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AR-986427

ERIC MATTHEW ROBERTS
STATE OF IDAHO

12/23/2025

INTERIOR ELEVATIONS

LCSC PA LAB

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Lewis Clark State College

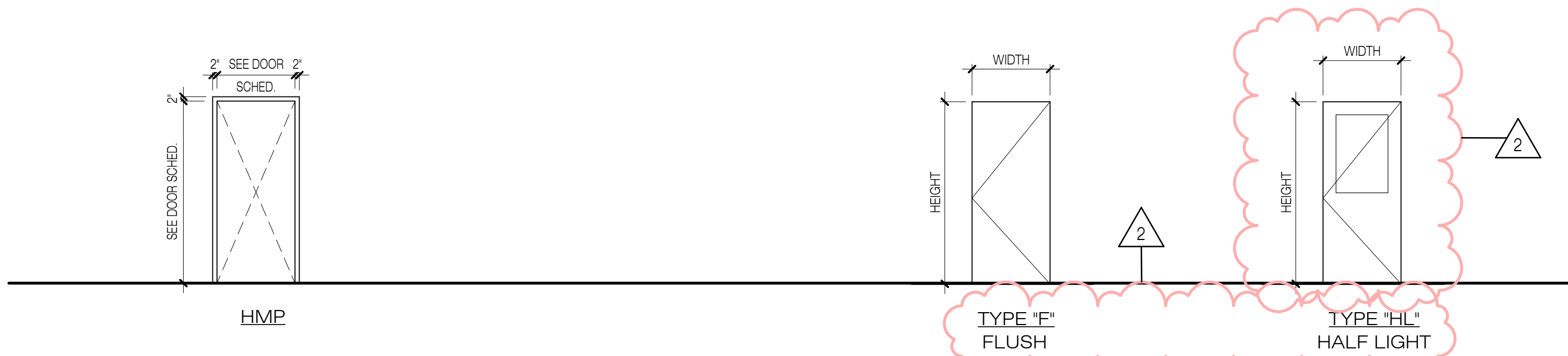
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DOOR SCHEDULE ABBREVIATIONS AND GENERAL NOTES

DOOR TYPES	DOOR MATERIALS	FRAME TYPES	GLAZING
AE = AUTOMATIC ENTRANCE DOOR AFD = ACCORDIAN FOLDING DOOR AFG = ACCORDIAN FOLDING GRILLE AFP = ACCORDIAN FOLDING PARTITION B = BUILD BO = BARN DOOR CS = COUNTER SHUTTER D = DUTCH DAT = DOUBLE ACTING TRAFFIC DOOR FFD = FOLDING FIRE DOOR FG = FOLDING GLASS DOOR FL = FULL LIGHT FPP = FOLDING PANEL PARTITION HL = HALF LIGHT IA = INTEGRATED DOOR OPENING ASSEMBLY ICU = INTENSIVE CARE UNIT DOOR MG = METAL GATE NL = NARROW LIGHT OOD = OVERHEAD COILING DOOR OSD = OVERHEAD SECTIONAL DOOR POD = POCKET DOOR PDE = REVOLVING DOOR ENTRANCE SG = SLIDING GLASS DOOR SMG = SLIDING METAL GRILLE VL = VISION LIGHT 2P = TWO PANEL 4P = FOUR PANEL 6P = SIX PANEL 8P = EIGHT PANEL (FU) = FULL LOUVER (L) = LOUVER, BOTTOM (LL) = LOUVER, TOP & BOTTOM	ALUM = ALUMINUM CWD = GLAD WOOD DOOR FG = FIBER GLASS GLD = LEADED GLASS GLF = FIRE RATED, SAFETY GLASS GLI = INSULATED UNIT, SAFETY GLASS GLL = 1/2" LAMINATED GLASS GLS = 1/4" SAFETY GLASS HM = HOLLOW METAL WD = WOOD WDSR = WOOD, STILE, & RAIL STL = STEEL (LE) = LEAD LINED DOOR FINISH AMV/AMV-1 = ACRYLIC MODIFIED VINYL CLA = CLEAR ANODIZED COAC/COA-1 = COLOR ANODIZED FFF-1 = FACTORY FINISHED FFFF-1 = FACTORY FINISH HDDL/HDL-1 = HIGH PRESSURE DECORATIVE LAMINATE LPDL/PLD-1 = LOW PRESSURE DECORATIVE LAMINATE PT/PT-1 = PAINT/PAINT COLOR WV/WWV-1 = WOOD VENEER FINISH	ALUM = ALUMINUM FRAME CW = CURTAIN WALL FL = FRAMELESS HMF = HOLLOW METAL FACTORY FINISHED HMFA = HOLLOW METAL FACTORY FINISHED, APPLIED CASINGS HMP = HOLLOW METAL PRIMED FOR PAINT MPS = MANUFACTURERS SPECIFICATIONS/DETAILS SF = STOREFRONT -- = NOT SPECIFIED/NON-SPECIFIC (LE) = LEAD LINED FRAME FINISH CLA = CLEAR ANODIZED COAC/COA-1 = COLOR ANODIZED FFF-1 = FACTORY FINISHED PT/PT-1 = PAINT/PAINT COLOR -- = NOT SPECIFIED/NON-SPECIFIC RATING 20 = 20 MINUTES 60 = 60 MINUTES 90 = 90 MINUTES S = SMOKE AND DRAFT CONTROL STC/STC-# = SOUND RETARDANT DOOR	MG = MONOLITHIC GLAZING, NOMINAL 1/4" THICKNESS, CLEAR, ANNEALED OR TEMPERED IGU = INSULATED GLAZING UNIT, 1" NOMINAL THICKNESS, MATCH EXTERIOR SYSTEM FPR = FIRE-PROTECTION-RATED GLAZING, NFPA 252/UL 10C, USE IN LISTED DOOR ASSEMBLIES ONLY (VISION PANELS) WHERE WALL CONTINUITY IS REQUIRED FPRR = FIRE-RESISTANCE-RATED GLAZING, ASTM E119, FOR USE WHERE WALL CONTINUITY IS REQUIRED SG = SECURITY GLAZING DG = DETENTION GLAZING HRG = HURRICANE IMPACT RESISTANT GLAZING, TESTED TO ASTM E1996/E1986 SCG = SOUND CONTROL GLAZING PSG = PLASTIC SHEET GLAZING SOM = SAFETY GLAZING MATERIAL, ALL GLAZING IN DOORS AND DOOR VISION PANELS SHALL BE SAFETY GLAZING COMPLYING WITH ANSI Z97.1 AND CPSC 16 CFR 1201, CATEGORY II
GENERAL NOTES A. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. B. DOOR OPERATING DEVICES SHALL BE LEVER OPERATED, PUSH TYPE OR U-SHAPED HANDLES PER ANSI A117.1 C. THE BOTTOM 1'0" OF ALL DOORS SHALL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST PER ANSI A117.1 D. EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED AS NOTED ON THE EXTERIOR ELEVATIONS AND ON THE INTERIOR SIDES AS NOTED PER THE DOOR SCHEDULE. E. HARDWARE: ALL HARDWARE SHALL COMPLY WITH APPLICABLE PROVISIONS OF ADA STANDARDS AND ICC A117.1. REFER TO HARDWARE SETS FOR FINISH, DESCRIPTIONS, REQUIREMENTS FOR DESIGN, FUNCTION SIZE, OPERATION, AND MOUNTING LOCATIONS. F. DOOR JAMB, HEAD AND SILL DETAILS AS INDICATED REFLECT DESIGN INTENT, LOCATIONS, AND PROFILES. DETAILS NOT SHOWN SHALL BE SIMILAR IN CHARACTER TO THOSE DETAILS. WHERE NOT CLEARLY DEFINED, CLARIFICATIONS SHALL BE REQUESTED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. G. ALL EXTERIOR DOORS SHALL BE WEATHER STRIPPED. H. ALL THRESHOLDS PROVIDED SHALL BE A MAXIMUM OF 1/2" HEIGHT ABOVE FINISH FLOOR. SEE 10/GO-10. I. ADJUST ALL DOORS NOT TO EXCEED TO THE MAXIMUM OPERATIONS EFFORT ALLOWED BY CODE. J. UNLESS NOTED OTHERWISE, DOOR OPENINGS IN RATED WALL SHALL BE PROTECTED BY A TIGHT FITTING SMOKE AND DRAFT CONTROL ASSEMBLY. THE LABELED ASSEMBLY SHALL BE SELF- CLOSING OR AUTOMATIC CLOSING AND SHALL BE PROVIDED WITH A CONTINUOUS GASKET ALONG THE STOP AT THE DOOR JAMB AND HEAD.			

FRAME TYPES

DOOR TYPES



DOOR SCHEDULE

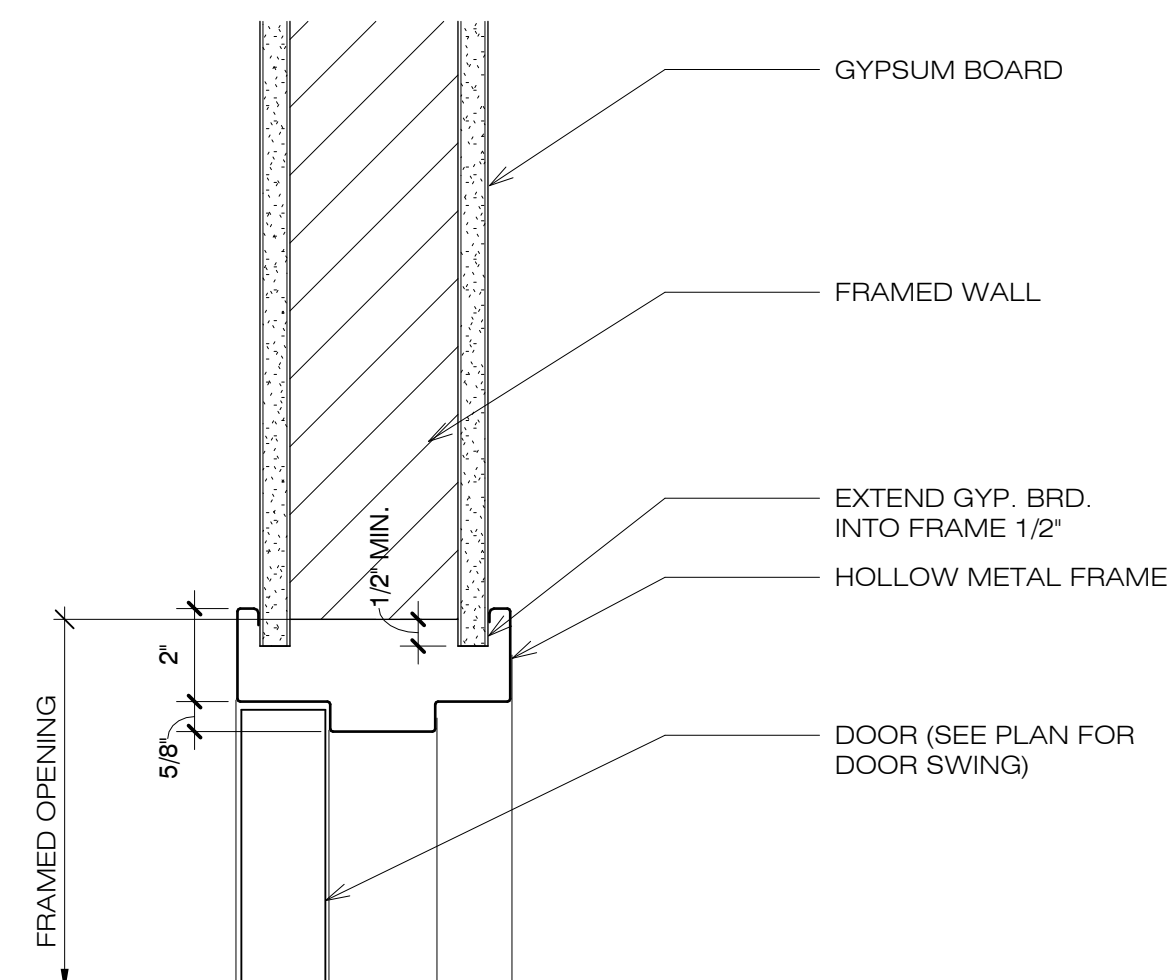
NO.	SIZE		TYPE	MATERIAL	FINISH	TYPE	FINISH	FRAME		RATING	HOWR SET	REMARKS
	WIDTH	HEIGHT						JAMB	HEAD			
224A	3'-0"	7'-0"	F	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	2/A11-10	1/A11-10	NO RATING	01 (MATCH EXISTING)	ALTERNATE BID NO. 1 OR EQUAL
224B	3'-0"	7'-0"	F	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	2/A11-10	1/A11-10	NO RATING	01 (MATCH EXISTING)	ALTERNATE BID NO. 1 OR EQUAL
224C	3'-0"	7'-0"	F	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	2/A11-10	1/A11-10	NO RATING	01 (MATCH EXISTING)	ALTERNATE BID NO. 1 OR EQUAL
224D	3'-0"	7'-0"	F	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	2/A11-10	1/A11-10	NO RATING	01 (MATCH EXISTING)	ALTERNATE BID NO. 1 OR EQUAL
224E	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
225	3'-0"	7'-0"	HL	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	MATCH EXISTING	MATCH EXISTING	NO RATING	01 (MATCH EXISTING)	OR EQUAL
225E	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
226	3'-0"	7'-0"	F	WD (MATCH EXISTING)	WVF (MATCH EXISTING)	HMP	PAINT (MATCH EXISTING)	MATCH EXISTING	MATCH EXISTING	NO RATING	01 (MATCH EXISTING)	OR EQUAL

HARDWARE SET 01:

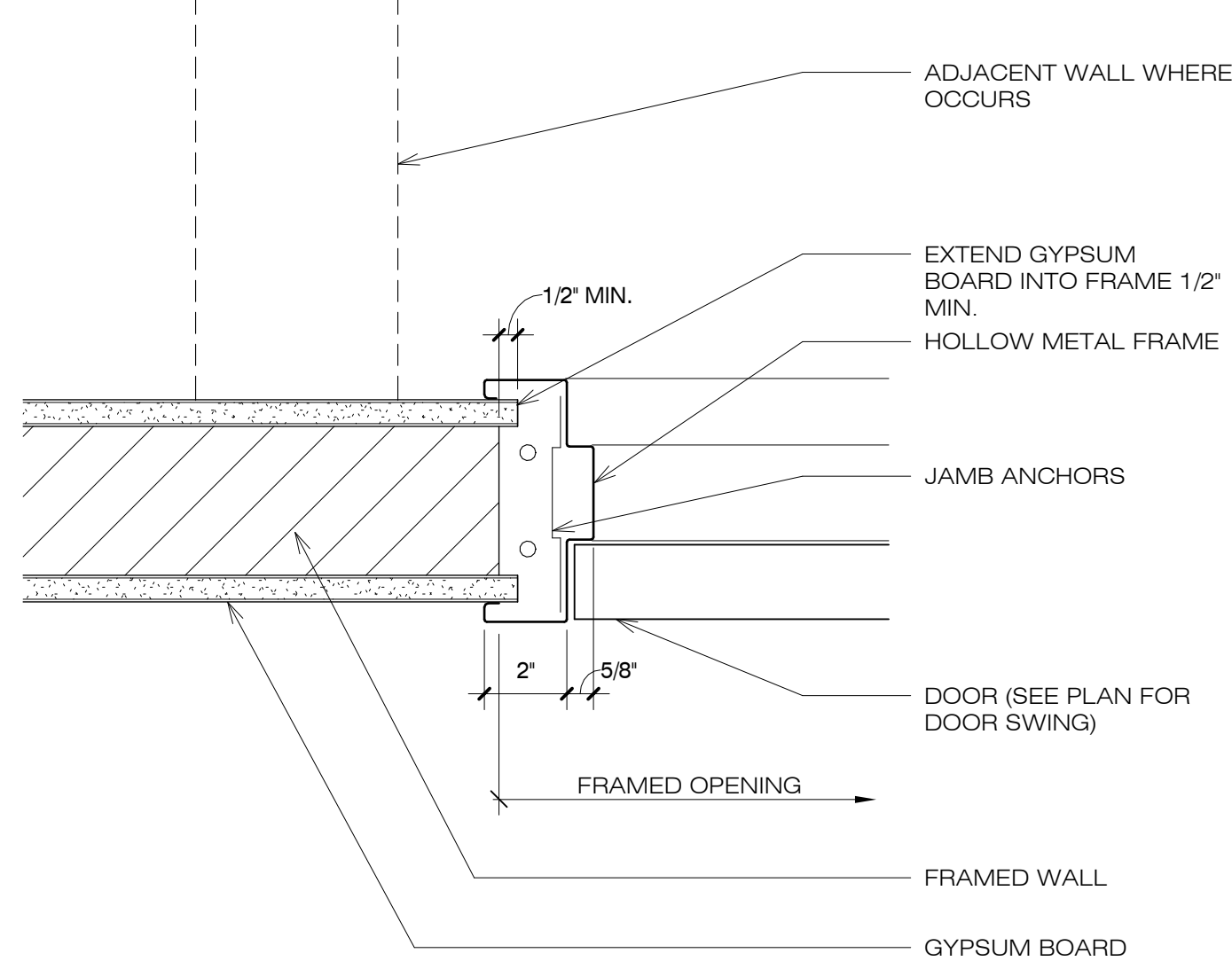
- | | | |
|-------------------------|---------------------------|--------------------------------|
| (1) CLASSROOM LEVEL | L8070 P | SCHLAGE |
| (1) HINGE, FULL MORTISE | FB8178NRP 4 1/2" X 4 1/2" | BEST HINGES (FORMERLY STANLEY) |
| (1) CYLINDRICAL LOCK | ND53 PD RHO | SCHLAGE |
| (1) DOOR STOP | 1270 CV | TRIMCO |
| (1) DOOR SILENCER | 1228A | TRIMCO |

ALL HARDWARE REQUIRES REVIEW AND APPROVAL OF LCSC. ALL HARDWARE MANUFACTURERS LISTED ARE BASIS OF DESIGN, SEE SPEC SECTION 08 71 00 FOR ADDITIONAL APPROVED MANUFACTURERS OR APPROVED EQUAL.

2



1 HEAD DETAIL
3" = 1'-0"



2 JAMB DETAIL
3" = 1'-0"

PARTITION NOTES

ABBREVIATIONS

CORE TYPE

- | | | | | | | | | |
|--------------|-------------|----------------|---------------|---------------------------|--------------------------|-----------|-------------------------------|------------------------------|
| 1 = CONCRETE | 2 = MASONRY | 3 = METAL STUD | 4 = WOOD STUD | 5 = FURRING (METAL STUDS) | 6 = FURRING (WOOD STUDS) | 7 = SHAFT | 8 = SINGLE SIDED(METAL STUDS) | 9 = SINGLE SIDED(WOOD STUDS) |
|--------------|-------------|----------------|---------------|---------------------------|--------------------------|-----------|-------------------------------|------------------------------|

CORE HEIGHT

- | | | | |
|----------------------------------------------------------|------------------------------------|----------------------------------------------------|---------------------------------------------|
| B = BRACED HEIGHT (1'-0" ABOVE HIGHEST ADJACENT CEILING) | C = WALL TERMINATION UNDER CEILING | F = FULL HEIGHT (TO ROOF OR FLOOR STRUCTURE ABOVE) | L = LOW WALL (HEIGHT AS INDICATED ON PLANS) |
|----------------------------------------------------------|------------------------------------|----------------------------------------------------|---------------------------------------------|

FIRE RATING

- | | | | | |
|---------------|------------|------------|------------|------------|
| 0 = NO RATING | 1 = 1-HOUR | 2 = 2-HOUR | 3 = 3-HOUR | 4 = 4-HOUR |
|---------------|------------|------------|------------|------------|

THICKNESSES:

CONCRETE	MASONRY	METAL STUDS	WOOD STUDS	SHAFT (H STUDS)
4 = 4"	4 = 3 5/8" (4" NOM.)	0 = 7/8"	1 = 3/4"	2 = 2 1/2"
6 = 6"	6 = 5 5/8" (6" NOM.)	1 = 1 1/2"	2 = 1 1/2"	4 = 4"
8 = 8"	8 = 7 5/8" (8" NOM.)	2 = 2 1/2"	3 = 3 1/2"	6 = 6"
10 = 10"	10 = 11 5/8" (12" NOM.)	3 = 3 5/8"	4 = 3 1/2"	
12 = 12"		4 = 4"	6 = 5 1/2"	
		6 = 6"	8 = 7 1/4"	
		8 = 8"	10 = 9 1/4"	
		10 = 10"	12 = 11 1/4"	
		12 = 12"		

GYPSUM BOARD SCHEDULE

TYPE OF BOARD	LOCATIONS
5/8" REGULAR PAPER FACED GYPSUM	THE DEFAULT GYPSUM BOARD FOR PARTITION TYPES IS 5/8" PAPER FACED GYPSUM WALL BOARD FOR USE ON ALL WALLS AND CEILINGS. NOTE: MOLD-RESISTANT BOARD IS REQUIRED WHENEVER THE BOARD IS INSTALLED BEFORE THE BUILDING IS ENCLOSED.

GENERAL NOTES

- TYPICAL NON-LOAD BEARING PARTITION TYPES REFLECT DESIGN INTENT, CONFIGURATIONS, TERMINATION AND PROFILES OF WALLS.
- WALL FINISHES ARE NOT SHOWN AND SPECIFIED ELSEWHERE.
- WALL FRAMING MEMBERS ARE MINIMUMS UNLESS LARGER MEMBERS ARE REQUIRED DUE TO HEIGHT AND SPAN LIMITATIONS. REFER TO TYPICAL NON-LOAD BEARING WALL DETAILS.
- WALL FRAMING SPACING ARE MINIMUMS UNLESS LARGER MEMBERS ARE REQUIRED DUE TO HEIGHT AND SPAN LIMITATION. REFER TO TYPICAL NON-LOAD BEARING WALL DETAILS.
- BLOCKING OR BACKING PLATES SHALL BE PROVIDED TO SUPPORT ALL PRODUCTS ATTACHED TO WALLS AFTER COMPLETION OF FINISH SURFACE, INCLUDING BUT NOT LIMITED TO TOILET AND BATH ACCESSORIES, PLUMBING AND ELECTRICAL FIXTURES, CASEWORK, HANDRAILS, EQUIPMENT AND FURNISHINGS.
- ALL TOP OF FULL HEIGHT WALLS SHALL ACCOMMODATE A MINIMUM OF 1/2" DEFLECTION.
- ALL SOUND RATED ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THEIR LISTED ASSEMBLIES.

ACOUSTICAL WALLS PARTITIONS

ACOUSTIC SILL - PROVIDE BEAD OF CONTINUOUS ACOUSTIC SEALANT UNDER BOTTOM TRACK / PLATE FOR ALL ACOUSTICALLY RATED WALLS. SEALANT SHALL BE FULLY BEDDED BETWEEN TRACK AND FLOOR SLAB PRIOR TO FASTENING. FASTENERS SHALL NOT COMPROMISE CONTINUOUS SEALANT BED. SEAL ALL FLOOR PENETRATIONS AND MAINTAIN SEAL CONTINUITY AT INTERSECTIONS AND CHANGES IN FLOOR PLANE.

FOR WALLS WITH STC >40, PROVIDE ADDITIONAL CONTINUOUS BEAD OF ACOUSTIC SEALANT OR BACKER ROD AND SEALANT BETWEEN GYPSUM BOARD AND FLOOR AT EACH LAYER.

ACOUSTIC HEAD OF WALL - PROVIDE CONTINUOUS BEAD OF ACOUSTIC SEALANT OR BACKER ROD AND SEALANT AT HEAD OF WALL BETWEEN GYPSUM BOARD AND STRUCTURE ABOVE. MAINTAIN CONTINUOUS SEAL ACROSS ENTIRE HEAD OF WALL JOINT ON BOTH SIDES OF PARTITION. FOR DEFLECTION CONDITIONS, USE COMPRESSIBLE BACKER MATERIAL AND FLEXIBLE ACOUSTIC SEALANT TO ACCOMMODATE MOVEMENT WHILE MAINTAINING SEAL.

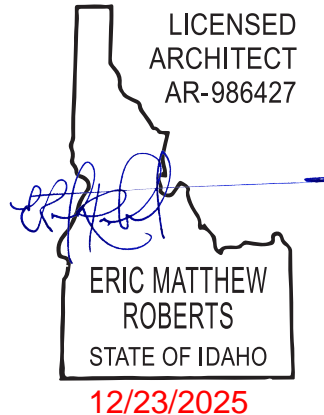
SEAL ALL ELECTRICAL, DATA, AND LOW-VOLTAGE BOXES IN ACOUSTICALLY RATED PARTITIONS WITH UL-LISTED PUTTY PADS OR ACOUSTIC BACK BOXES. PROVIDE CONTINUOUS SEAL AROUND BOX PERIMETER WITH ACOUSTIC SEALANT. STAGGER BOXES ON OPPOSITE SIDES OF WALL TO AVOID BACK-TO-BACK INSTALLATIONS. MAINTAIN MINIMUM 24" HORIZONTAL OFFSET BETWEEN BOXES ON OPPOSITE SIDES OF PARTITION. FOR MULTI-GANG BOXES OR CONDUIT BUNDLES, PROVIDE ADDITIONAL ACOUSTIC TREATMENT TO MAINTAIN ASSEMBLY STC RATING.

ALL ACOUSTICAL MATERIALS, INCLUDING SEALANTS AND INSULATION, SHALL BE COMPATIBLE WITH FIRE-RESISTANCE RATING REQUIREMENTS WHERE APPLICABLE. WHERE ACOUSTIC SEALANT OCCURS AT FIRE-RATED ASSEMBLIES, A TESTED FIRESTOP SYSTEM OR FIRE-RATED SEALANT MAY BE USED IN PLACE OF ACOUSTIC SEALANT TO MAINTAIN CONTINUOUS SOUND AND FIRE BARRIER INTEGRITY. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND UL OR GA-600 LISTINGS.



ISSUE DATE: 12.15.2025

REV	DATE	COMMENT
1	11.13.25	ADDENDUM #1
2	12.15.25	BID RFI CLARIFICATIONS



DOOR/FRAME ABBREVIATIONS, DOOR SCHEDULE, PARTITION SCHEDULE AND DETAILS

LCSC PA LAB

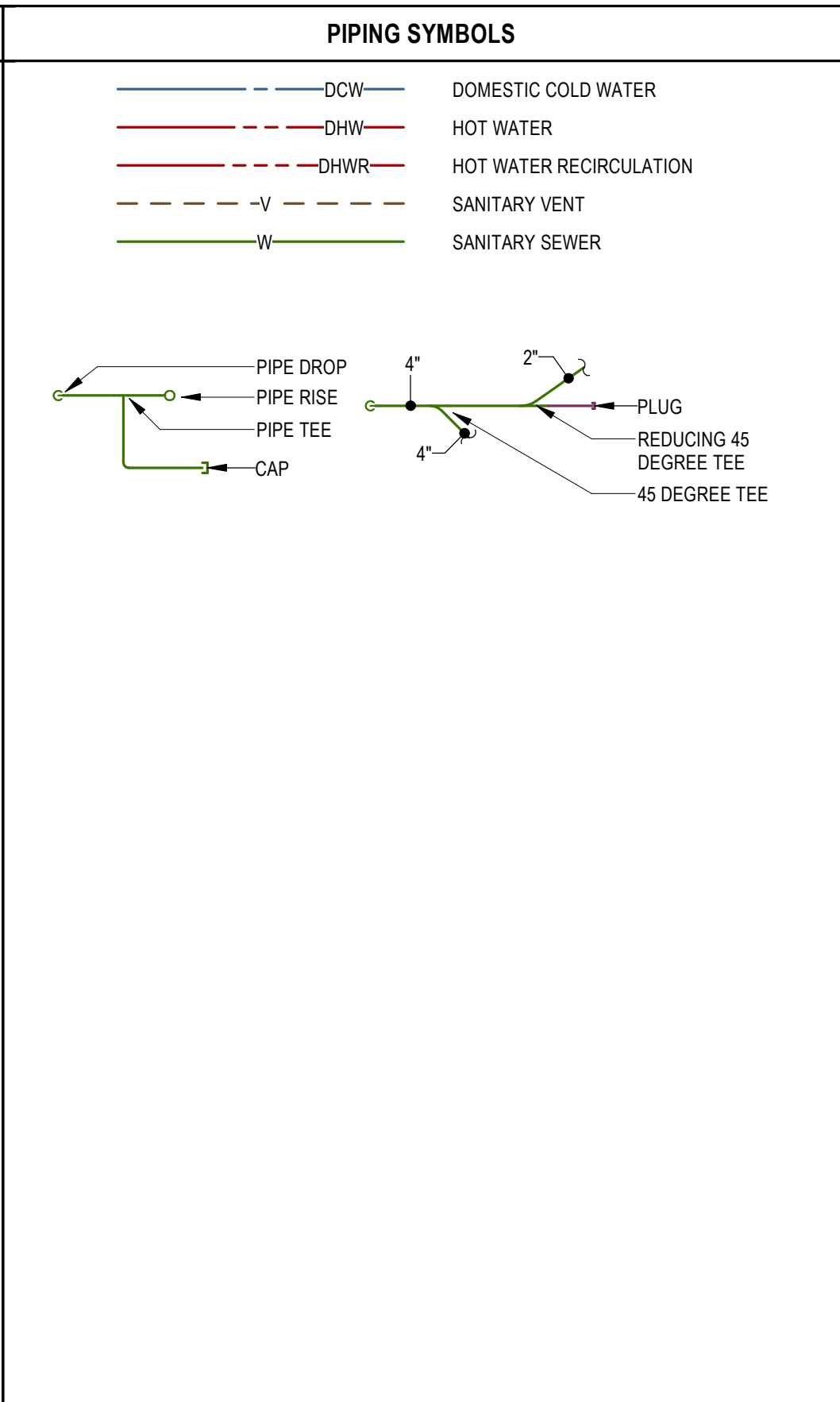
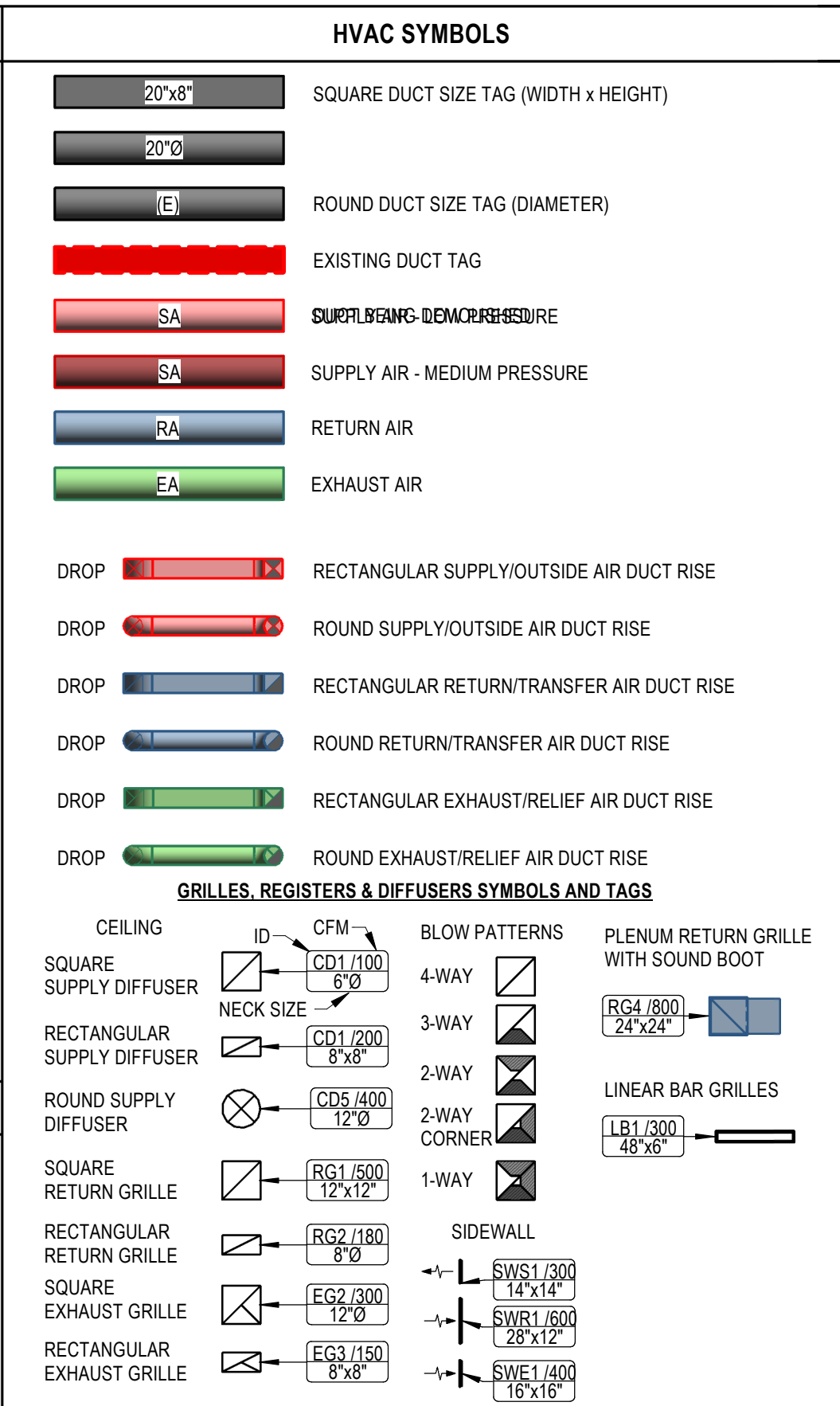
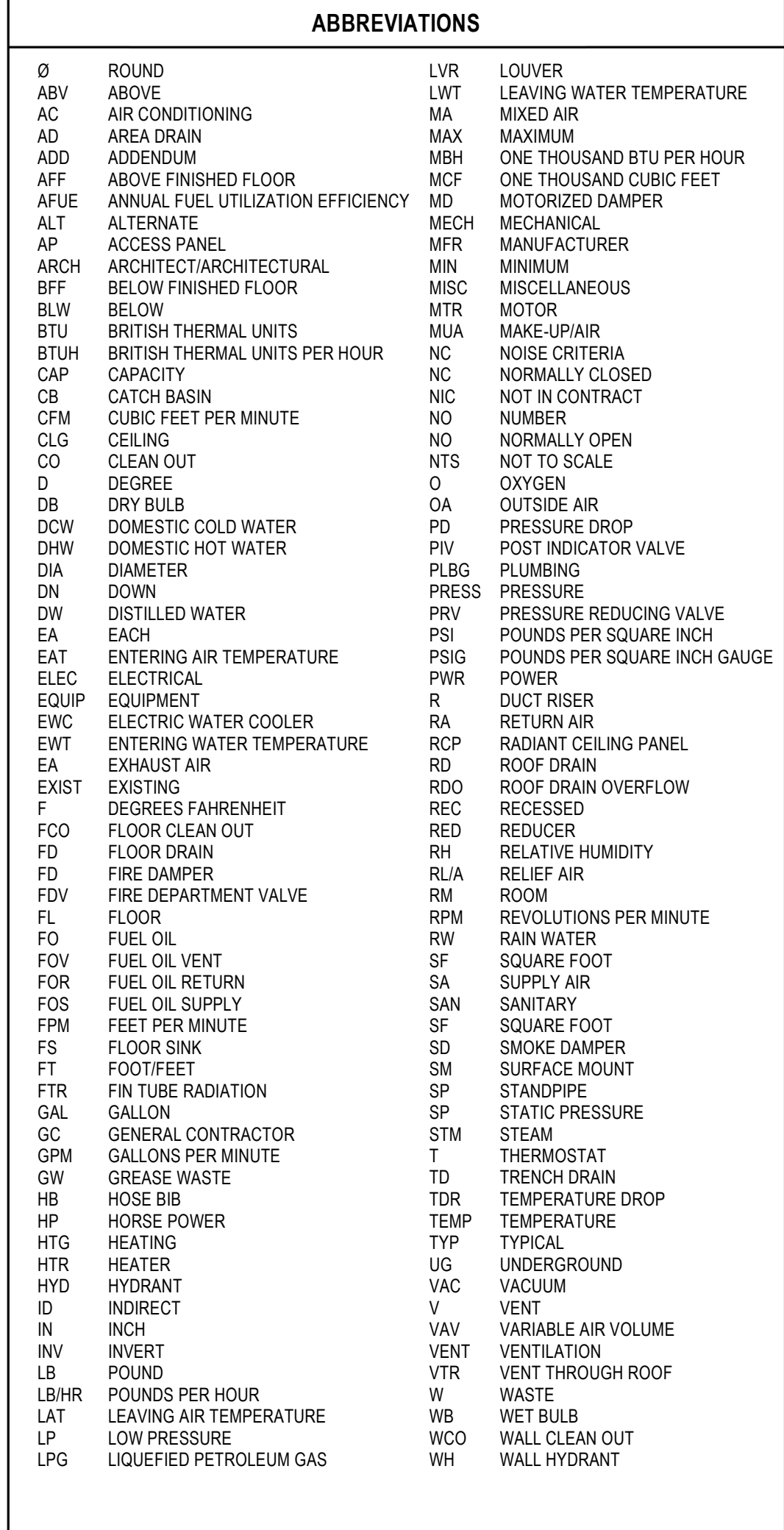
Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240216

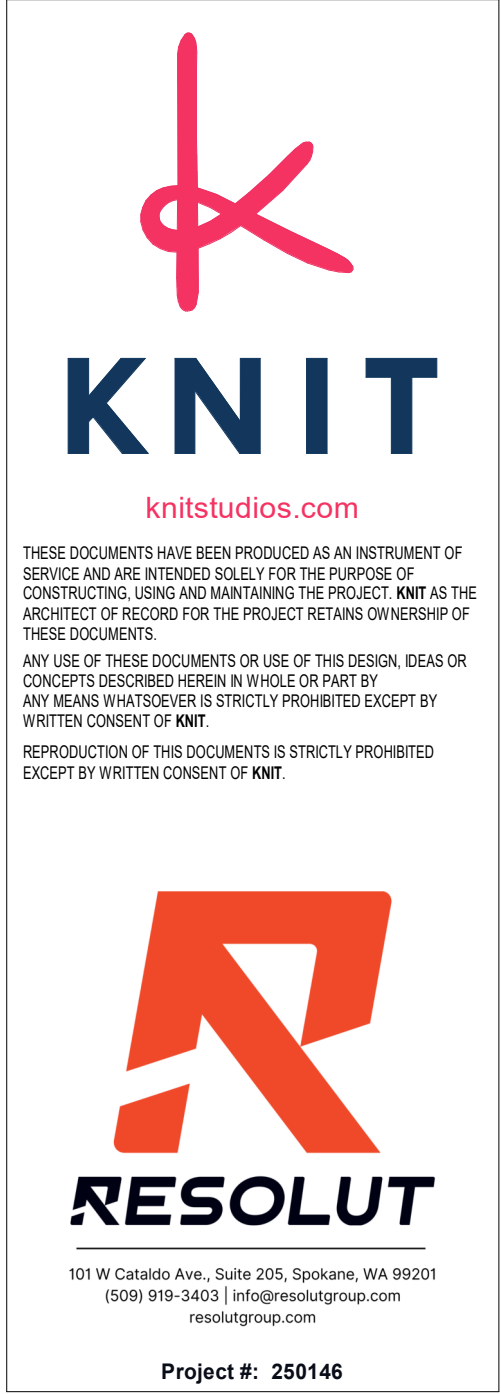
A11.10



*** NOTE ***
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN
THIS SET OF DRAWINGS.

MECHANICAL SHEET INDEX

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ISSUE DATE: 06.18.2025

REV	DATE	COMMENT
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MECHANICAL TITLE SHEET

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE	PROJECT	CLIENT
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JOB NO: **240128**

M0.01

FIRE PROTECTION GENERAL NOTES	
1.	NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2.	ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3.	COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
4.	FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED. IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
5.	PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
6.	THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
7.	THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8.	THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
9.	REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
10.	DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
11.	ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM. UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
12.	THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
13.	AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
14.	AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
15.	SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
16.	ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
17.	THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

PLUMBING GENERAL NOTES	
1.	UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT. VERIFY ALL SLOPING WITH LOCAL CODES.
2.	ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3.	PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4.	NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5.	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
6.	REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
7.	SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TOP/ROM SINGLE FIXTURE.
8.	FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
9.	FIELD VERIFY ALL NEW WATER, WASTE AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
10.	WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR TO BE 2" MINIMUM.
11.	INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING: <div><div>A.</div><div>SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.</div><div>B.</div><div>LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.</div><div>C.</div><div>LOCATE AT THE BASE OF EACH VERTICAL STACK.</div></div>

MECHANICAL GENERAL NOTES	
1.	COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2.	SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3.	BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4.	COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5.	DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
6.	PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
7.	THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.

PROJECT GENERAL NOTES	
1.	THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2.	REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4.	WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
5.	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
6.	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7.	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
8.	ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
9.	FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
10.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
11.	IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
12.	DETAILS REFERENCE ALL SHEETS.
13.	INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.

* NOTE *

ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.



ISSUE DATE: **06.18.2025**

REV DATE COMMENT



MECHANICAL GENERAL NOTES

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College


TITLE

PROJECT

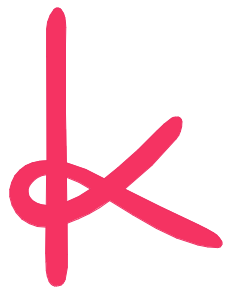
CLIENT

JOB NO: **240128**

M0.02

ISSUE DATE: 06.18.2025	
REV	DATE COMMENT
1	11-21-25 Addendum #1
	
MECHANICAL SPECIFICATIONS	
TITLE	
PROJECT	LCSC PA LAB Sam Glenn Complex 500 4th St Lewiston, ID 83501
CLIENT	Lewis Clark State College
JOB NO: 240128	
M0.03	

<div>SECTION 22 - PLUMBING PART 1 - GENERAL 1.01 GENERAL CONDITIONS THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND DIVISION 1 ARE A PART OF THIS SECTION AND THE CONTRACT FOR THIS WORK AND SHALL APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN. 1.02 SCOPE OF WORK FURNISH ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF ALL PLUMBING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. A. WORK SPECIFIED IN THIS SECTION 1. SANITARY SOIL, WASTE AND VENT SYSTEMS 2. DOMESTIC HOT AND COLD WATER SYSTEMS 3. FURNISH AND SET ALL SLEEVES FOR PIPES PASSING THROUGH WALLS AND FLOORS. 4. PIPE COVERING, INSULATION AND WRAPPING 5. EXCAVATION AND BACKFILL 6. ALL PLUMBING FIXTURES, VALVES, AND OTHER MISCELLANEOUS ITEMS OR EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION. 1.03 QUALITY ASSURANCE A. CODES AND STANDARDS 1. ALL ITEMS INDICATED ON SITE, ARCHITECTURAL, OR MECHANICAL DRAWINGS ARE TO BE PROVIDED COMPLETE FROM POINT OF CONNECTION TO FINISHED FIXTURE IN CONFORMANCE WITH ALL GOVERNING AUTHORITY REQUIREMENTS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK IN VIOLATION OF GOVERNING CODES. 2. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS: a. 2018 UNIFORM PLUMBING CODE b. 2018 INTERNATIONAL BUILDING CODE c. 2018 INTERNATIONAL MECHANICAL CODE d. 2018 INTERNATIONAL ENERGY CONSERVATION CODE 1.04 PRODUCT HANDLING A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION. B. REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER. 1.05 SUBMITTALS A. MANUFACTURER'S LITERATURE: WITHIN 35 DAYS AFTER AWARD OF CONTRACT AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE DELIVERED TO THE JOB SITE. SUBMIT SEVEN COMPLETE BROCHURES OF ALL MATERIALS AND EQUIPMENT, PER DIVISION 1 OF THE SPECIFICATIONS. B. OTHER SUBMITTALS: 1. SHOP DRAWINGS 2. STERILIZATION TEST REPORT 3. TEST DATA SETS IN BOUND BOOKLET FORM OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS AND BROCHURES FOR EQUIPMENT SPECIFIED IN THIS SECTION. FULLY INSTRUCT OWNER'S OPERATING PERSONNEL. C. RECORD DRAWINGS: KEEP AN ACCURATE DIMENSIONED RECORD OF AS-BUILT LOCATIONS AND ELEVATIONS, AS REFERRED TO APPROVED BASE DATUM, OF BURIED CONCEALED. D. OPERATION AND MAINTENANCE INSTRUCTION: DELIVER TO ARCHITECT TWO COMPLETE LINES, MANHOLE, CLEANOUTS, VALVES, PLUGGED TEES, CAPPED ENDS, AND OF WORK WHICH IS INSTALLED DIFFERENT FROM SHOWN IN THE PLANS. 1.06 MISCELLANEOUS A. EXAMINATION OF THE SITE: EXERCISE CARE IN EXAMINING THE SITE AND COORDINATE ALL WORK INDICATED IN THE DRAWINGS WITH EXISTING CONDITIONS. REPORT TO ARCHITECT IN WRITING CONDITIONS THAT WILL PREVENT PROPER PROVISIONS OF THIS WORK. VERIFY DEPTH AND LOCATION OF ALL SERVICE LINES WITH SERVICING COMPANIES HAVE IN JURISDICTION BEFORE EXCAVATING. BY SUBMISSION OF THE BID, THE CONTRACTOR WARRANTS THAT HE HAS FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS AND WILL PERFORM ALL WORK AS REQUIRED FOR HOOKUP AND AS REQUIRED BY THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST. B. PERMITS AND FEES: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND FEES REQUIRED BY ALL GOVERNING AGENCIES. C. SERVICE CONNECTIONS MAKE ALL NECESSARY ARRANGEMENTS WITH APPLICABLE UTILITY COMPANY FOR CONNECTION TO EXISTING SERVICE LINES. PAY ALL FEES ASSOCIATED WITH WORK INCLUDING METERS, HOOKUP CHARGE AND UTILITY ASSESSMENT FEES. D. DRAWINGS: COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT, AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE.</div>	<div>PART 2 - PRODUCTS 2.01 - GENERAL A. PIPE SLEEVES AND WRAPPING: PROVIDE POLISHED CHROMIUM PLATED AND BRASS SET SCREW FLANGES WHERE PLUMBING PIPING PASS THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS IN FINISHED PORTIONS OF BUILDING INCLUDING FLANGES ON PIPES AT FIXTURES. ALL SLEEVES IN CONCEALED AND EXTERIOR WALLS SHALL BE 20 GA. GALVANIZED IRON ONE INCH O.D. LARGER THAN THE PIPE, CALLED IF BELOW GRADE IN A MOISTUREPROOF MANNER. ALL PIPES PENETRATING THROUGH FIRE WALLS AND FLOORS SHALL BE PROPERLY SAFED WITH DOW CORNING 3-4548 SILICONE RTV FOAM OR EQUAL. INSTALL PER MANUFACTURER'S DIRECTION. B. PIPE IDENTIFICATION: 1. PIPING IDENTIFICATION PER ANSI AND OSHA STANDARDS: EACH INDIVIDUAL PIPELINE SHALL BE MARKED FOR QUICK AND EASY IDENTIFICATION AS TO CONTENTS AND CHARACTER OF MATERIAL CARRIED IN THE PIPES BY SET ON SNA OR STR MARKER. 2. MARKERS SHALL BE INSTALLED AND SPACED AT NOT MORE THAN 8 FT. INTERVALS AND SO LOCATED THAT MARKERS SHALL BE VISIBLE WHERE PIPING SYSTEM IS EXPOSED. 3. COLOR SCHEME SHALL BE APPROVED. BASE COLOR FOR MARKERS SHALL BE AS FOLLOWS: • DOMESTIC HOT WATER - YELLOW • DOMESTIC COLD WATER - GREEN • SANITARY SEWER - GREEN • SANITARY VENT - GREEN • CONDENSATE DRAIN - BLUE C. ONE MARKER SHALL BE INSTALLED AT EACH SIDE OF VALVES, SPECIAL FITTINGS AND AT BRANCH TAKE-OFF. IN FURRED SPACES INSTALL ONE BAND 2 FT. ABOVE FLOOR AND 19 IN. BELOW CEILING LINE. D. MATERIALS: MATERIALS WHEN NOT OTHERWISE DEFINITELY SPECIFIED SHALL CONFORM TO THE APPLICABLE ASTM, ASME, AGA, AND ASA STANDARDS. 2.02 - PIPE AND FITTING SCHEDULE PIPE AND FITTINGS A. NO PIPE OF A FOREIGN MANUFACTURER WILL BE ACCEPTABLE. B. ALL PIPING, FITTING, FLANGES, ETC. SHALL BE FREE FROM DEFECTS AND SHALL COMPLY WITH THE APPROPRIATE ASTM SPECIFICATIONS C. COPPER TUBING: ASTM B88, TYPE L FOR ABOVE GRADE PLUMBING, TYPE K BELOW GRADE PLUMBING. D. PVC PIPE AND FITTING: ASTM D1785 CLASS 150 WITH ASTM D 2863 SOLVENT CEMENT JOINTS UNLESS OTHERWISE SPECIFIED. SCHEDULE 40 PVC PLASTIC PIPE FITTINGS: ASTM F 628, SCHEDULE 40. PVC IS ONLY ALLOWED FOR BELOW GRADE PLUMBING. E. ACRYLONITRILE BUTADIENE STYRENE (ABS) PLASTIC PIPE: ASTM D 2661, SCHEDULE 40, ASTM F 628, SCHEDULE 40. ABS PLASTIC PIPE FITTINGS: ASTM F 409, ACCESSIBLE AND REPLACEABLE, SOLVENT CEMENT AND THREADED TYPES, DRAIN PATTERN, ONLY FOR BELOW GRADE PLUBING. F. CAST IRON SOIL PIPE AND FITTINGS ASTM A74 G. COPPER FITTINGS: WROUGHT COPPER, ANSI SPECIFICATION B16.22. H. BALL VALVES, DOMESTIC WATER: BRONZE, FULLPORT, CLASS 150, THREADED. a. GRINNELL 3150 OR 171N b. NIBCO T-585 c. JAMESBURY 300 I. PARTITION STOP VALVES: T&B B415, LOOSE KEY TYPE WITH WALL FLANGE. J. BALANCING COCKS 2 INCHES AND SMALLER SHALL BE CRANE NO 250 OR MILWAUKEE BUTTERBALL BB2-100 OR BB2-350 WITH MEMORY STOP. K. SOLDER a. JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE STAY SAFE 50 SOLDER OR 95-5 SOLDER SHALL BE SILFOS OR SILVERFLOW FOR ALL REFRIGERANT PIPING JOINTS. 2.04 PIPE SLEEVES AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING RISING THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSH WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2 IN. CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES. 2.05 CLEANOUTS A. FULL SIZE CLEANOUTS SHALL BE INSTALLED AT THE BASE OF EACH SOIL WASTE STACK. ALL OTHER CLEANOUTS SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY STATE, LOCAL OR NATIONAL PLUMBING CODES. B. ALL CLEANOUTS SHALL BE INSTALLED IN LOCATIONS EASILY ACCESSIBLE FOR RODDING. CLEANOUTS IN WALLS SHALL BE JR SMITH 4402, IN FLOORS JR SMITH 4023. CLEANOUTS SHALL BE JR SMITH, ZURK, WADE, OR JOSAM. 2.06 PIPE INSULATION A. ALL DOMESTIC HOT WATER AND COLD WATER PIPING SHALL BE COVERED WITH OWENS CORNING AS-16 FIBERGLASS PIPE INSULATION WITH VAPOR SEAL JACKET. INSULATION THICKNESS SHALL BE 1/2 INCH FOR COLD WATER AND 1 INCH FOR HOT WATER. B. INSULATE ALL PIPING UNDER LAVATORIES ACCESSIBLE TO THE PHYSICALLY HANDICAPPED WITH HOT WATER SUPPLY AND P-TRAP PREFABRICATED INSULATION, HAND LAY GUARD. 2.07 PIPE HANGERS HANGERS SHALL BE SUPPLIED WITH FACTORY INSTALLED ISOLATION AND DI-CHROMATE FINISH. PIPE 2 IN. AND SMALLER: GRINNELL F69, PIPE 2-1/2 IN. AND LARGER: GRINNELL F65. CONCRETE INSERTS: GRINNELL 261 ANAD 262. RISER CLAMPS FOR COPPER PIPING: GRINNELL 261P, PLASTIC COATED. RISER CLAMPS FOR OTHER PIPING: GRINNELL 261. HANGER RODS SHALL CONFORM TO THE FOLLOWING: PIPE SIZE 2 IN. AND SMALLER: 3/8 IN. RODS. PIPE SIZE 2-1/2 IN. AND 3 IN.: 1/2 IN. RODS. PIPE SIZE 3 IN. AND LARGER: 3/8 IN. RODS.</div>	<div>PART 3 - EXECUTION 3.01 SURFACE CONDITIONS A. INSPECTION: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS B. DISCREPANCIES 1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ARCHITECT. 2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED. 3. INTERFERENCES BETWEEN INSTALLED WORK OF VARIOUS TRADES DUE TO LACK OF COORDINATION SHALL BE RESOLVED BY ARCHOTED WHOSE DECISION IS FINAL. RELOCATE OR OFFSET ANY WORK AS REQUIRED TO ACCOMMODATE WORK OF THEIR TRADES AT NO EXTRA COST TO THE OWNER WHEN SO DIRECTED BY THE ARCHITECT. 3.02 LOCATIONS AND SPACE REQUIREMENTS A. CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK UNDER THIS DIVISION. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A SATISFACTORY MANNER, IN ANY CASE AND AT ANY TIME. A CHANGE IN LOCATION REQUIRED BY OBSTACLES OR THE INSTALLATION OF OTHER TRADES NOT SHOWN ON THE MECHANICAL PLANS SHALL BE MADE BY CONTRACTOR WITHOUT ADDITIONAL CHARGE PROVIDED THE CHANGE IS ORDERED BEFORE WORK IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED. B. VERIFY ALL SPACES, DIMENSIONS FOR ALL FIXTURE, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS. C. OBTAIN ALL NECESSARY ROUGH-IN DATA AND DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS. D. MAINTAIN AMPLE HEADROOM CLEARANCES AND ACCESSIBILITY. MAINTAIN CEILING HEIGHTS. E. CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION. 3.03 EXCAVATION AND BACKFILLING A. PERFORM EXCAVATION AND BACKFILLING REQUIRED WORK UNDER THIS SECTION UNLESS OTHER-WISE SPECIFIED. CONFORM TO REQUIREMENTS OF DIVISION 2, SOILS REPORT AND OF PUBLIC AUTHORITIES HAVING JURISDICTION. 3.04 SPECIALTY ITEMS A. INSTALL AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND AS RECOMMENDED BY MANUFACTURER. 3.05 STERILIZATION A. STERILIZE EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM WITH LIQUID CHLORIDE OR HYDROCHLORIDE BEFORE ACCEPTANCE FOR OPERATION IN ACCORDANCE WITH AWWA C801. "STANDARD FOR DISINFECTING WATER MAINS". WORK SHALL BE DONE BY CONTRACTOR AND, UNLESS OTHERWISE REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICTION, SHALL CONFORM TO THE FOLLOWING: B. METHOD: AMOUNT OF CHLORINE SHALL PROVIDE A DOSAGE OF 50 PPM MINIMUM. INTRODUCE CHLORINATING MATERIALS INTO LINES AND DISTRIBUTION SYSTEM IN APPROVED MANNER. AFTER A CONTACT PERIOD OF 24 HOURS MINIMUM DURING WHICH PERIOD CHLORINE RESIDUAL SHALL BE MAINTAINED AT 5 PPM MINIMUM. FLUSH OUT SYSTEMS WITH CLEAN WATER UNTIL RESIDUAL CONTENT IS NOT GREATER THAN 0.2 PPM. FLUSH ENTIRE SYSTEM OPEN AND CLOSE VALVES IN LINES BEING STERILIZED SEVERAL TIMES DURING CONTACT PERIOD. C. TEST REPORTS: FURNISH ONE COPY OF TEST REPORT OF COMPLETE AND ADEQUATE STERILIZATION TO ARCHITECT BEFORE FINAL ACCEPTANCE OF WORK. CERTIFICATES SHALL BEAR SIGNATURE OF AN OFFICIAL OF LABORATORY RESPONSIBLE FOR TEST. COST OF TESTING LABORATORY SERVICES SHALL BE INCLUDED IN THE SUBCONTRACT. 3.06 ADJUSTING A. UPON COMPLETION OF WORK AND AFTER CLEANING OF SYSTEM, FIXTURES AND EQUIPMENT, AND AUTOMATIC PARTS OF PLUMBING SYSTEM SHALL BE CAREFULLY ADJUSTED NORMAL OPERATION. ALL FLUSH VALVES AND FIXTURE STOPS SHALL BE CHECKED FOR PROPER OPERATION AND FINAL ADJUSTMENT. 3.07 HANGERS AND SUPPORTS A. HOLD HORIZONTAL PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FROM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID, EXCEPT FOR BURIED PIPING. HANG OR SUPPORT PIPE RUNS SO THAT THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT. 1. HORIZONTAL COPPER TUBING: FOR 2 IN. DIAMETER AND OVER, PROVIDE HANGERS EVERY 10 FT.; FOR 1-1/2 IN. DIAMETER AND SMALLER, EVERY 6 FT. 2. HORIZONTAL CAST-IRON HUB AND SPIGOT PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH HUB. 3. HORIZONTAL CAST-IRON NO-HUB PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH SIDE OF NO-HUB FITTINGS. PROVIDE ANTI-SEPARATION BRACING AT EACH 90 DEGREE CHANGE OF DIRECTION. 4. VERTICAL PIPING: SUPPORT AT FLOOR WITH IRON PIPE CLAMPS. 5. BRANCHES: PROVIDE SEPARATE HANGERS OR SUPPORTS FOR BRANCH LINES 6 FT. OR MORE IN LENGTH. 6. SOUND AND ELECTROLYSIS ISOLATORS: PROVIDE AT ALL HANGERS AND SUPPORTS FOR HOT AND COLD DOMESTIC WATER LINES. SECURELY ATTACH PIPE TO WALLS, STUDS, ETC. ALL SUCH PIPING ISOLATED FROM STRUCTURE BY "TRISOLATORS". - END -</div>	<div>3.08 TESTS A. PERFORM TESTS TO ARCHITECTS SATISFACTION. MAKE TESTS IN PRESENCE OF OWNER'S REP AND AT A TIME SUITABLE TO HIM IF REQUESTED. FURNISH NECESSARY LABOR AND EQUIPMENT AND BEAR COSTS FOR TESTING. COST OF REPLACING AND/OR REPAIRING DAMAGE RESULTING THEREFORE SHALL BE BORNE BY THIS CONTRACTOR. SHOULD THE CONTRACTOR REFUSE OR NEGLECT TO MAKE TESTS NECESSARY TO SATISFY THE ARCHITECT THAT REQUIREMENT OF SPECIFICATIONS AND DRAWINGS ARE MET SUCH TESTS MAY BE MADE BY AN INDEPENDENT TESTING COMPANY AND THE CONTRACTOR CHARGED FOR ALL EXPENSES. B. HYDROSTATIC TESTS: MAKE BY COMPLETELY FILLING PIPING SYSTEM WITH WATER AND ELIMINATING ACCUMULATIONS OF AIR SO THAT LEAKAGE, NO MATTER HOW SMALL, WILL BE APPARENT ON TESTING GAUGE IMMEDIATELY. MAINTAIN PRESSURE UNTIL PIPE UNDER TEST HAS BEEN EXAMINED, BUT IN NO CASE LESS THAN 24 HOURS. TEST SYSTEMS AT THE FOLLOWING PRESSURE: • SYSTEM TEST PRESSURE • DOMESTIC COLD WATER 150 PSIG • DOMESTIC HOT WATER 150 PSIG C. SANITARY SOIL, WASTE, VENT SYSTEM TESTS: BEFORE INSTALLATION OF FIXTURES, CAP END OF SYSTEM AND FILL LINES WITH WATER TO 10 FT. ABOVE THE SECTION BEING TESTED (INCLUDING VENTS) AND ALLOW TO STAND FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. MAKE TESTS IN SECTIONS IF NECESSARY OR CONVENIENT. HOWEVER, INCLUDE INTERCONNECTIONS BETWEEN NEW SECTIONS AND PREVIOUSLY TESTED SECTIONS IN THE NEW TEST. 3.09 CLEANOUTS A. PROVIDE CLEANOUTS WHERE INDICATED AND REQUIRED. UNLESS OTHERWISE INDICATED, CLEANOUTS SHALL BE ACCESSIBLE WITH EXTENSIONS TO GRADE, TO OUTSIDE OF BUILDINGS, OR TO FLOORS ABOVE AS INDICATED OR REQUIRED. DO NOT LOCATE CLEANOUTS IN PUBLIC LOBBIES AND PUBLIC CORRIDORS UNLESS APPROVED BY ARCHITECT. B. MEMBRANES: WHERE WATERPROOFING MEMBRANE OCCURES UNDER FLOOR, BRING MEMBRANE TO CLEANOUT WITHOUT PUNCTURING, AND PERMANENTLY ANCHOR TO INTEGRAL ANCHORING FLANGE WITH A HEAVY CAST-IRON CLAMPING COLLAR AND RUSTPROOFED BOLTS. C. COVERS: SET CLEANOUT COVERS WITH ALL FINISHED WALL, FLOOR OR GRADE. IN ALL CASES SECURELY ANCHOR BY MEANS OF INTEGRAL LUGS AND BOLTS. WHERE SURFACING MATERIAL SUCH AS RESILIENT COVERING IS SPECIFIED, ASCERTAIN THICKNESS BEING USED AND SET CLEANOUT TOP SO FINISHED FLOOR IS SMOOTH. D. USE ACORN 3500 THREAD COMPOUND. 3.10 PIPE INSTALLATION A. MAKE PIPE RUNS STRAIGHT AND TRUE. SPRINGING OR FORCING PIPING INTO PLACE IS NOT PERMITTED. INSTALL IN MANNER TO PREVENT ANY UNLUE STRAIN ON EQUIPMENT. MAKE JOINTS SMOOTH AND UNOBSTRUCTED INSIDE AND OUT, AND REAM PIPE ENDS THOROUGHLY TO REMOVE BURRS. CONCEAL PIPING IN FINISHED PORTIONS OF THE BUILDINGS EXCEPT AS OTHERWISE DIRECTED OR INDICATED. CAP OR FLUG ENDS AND OPENINGS IN PIPE AND FITTINGS IMMEDIATELY TO EXCLUDE DIRT UNTIL EQUIPMENT IS INSTALLED OR FINAL CONNECTIONS ARE MADE. B. INSTALL PIPING TO CLEAR BEAMS UNLESS SLEEVING IS INDICATED. CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION. OBTAIN APPROVAL FROM ARCHITECT IF CORING OR CUTTING OF CONCRETE WORK IS NECESSARY DUE TO FAILURE TO INSTALL REQUIRED SLEEVES PRIOR TO THE TIME OF CONCRETE POUR. COST OF CORING AND CUTTING WORK SHALL BE BORNE BY THE SUBCONTRACTOR. C. EXPOSED PLATED OR ENAMELED PIPE: MAKE CONNECTIONS TO EQUIPMENT WITH SPECIAL CARE. SHOW NO TOOL MARKS OR THREADS. D. DIELECTRIC UNIONS: MAKE CONNECTIONS BETWEEN TWO DISSIMILAR METAL PIPES WITH DIELECTRIC UNIONS. E. UNIONS: PROVIDE A UNION ON ONE SIDE OF EACH SHUTOFF VALVE. AT BOTH SIDES OF AUTOMATIC VALVES, AT EQUIPMENT CONNECTIONS AND ELSEWHERE INDICATED OR REQUIRED, UNLESS FLANGES ARE INDICATED. F. FLOOR, WALL AND CEILING PLATES: PROVIDE WHERE PIPES PIERCE FINISHED SURFACES. G. NOISE: INSTALL SOIL, WASTE, AND WATER PIPING IN A MANNER THAT PREVENTS ANY UNUSUAL NOISE FROM FLOW OF WATER UNDER NORMAL CONDITIONS. H. SHUTOFF VALVES: PROVIDE WHERE INDICATED AND REQUIRED FOR ADEQUATE CONTROL OF SYSTEMS AND FOR ISOLATION OF FIXTURE GROUPS AND EQUIPMENT. I. BURIED PIPING: INSTALL WITH MINIMUM 36 IN. COVERAGE UNLESS OTHERWISE INDICATED. LAY PIPING ACCURATELY TO GRADE WHERE INVERT ELEVATIONS ARE INDICATED. WHEN REQUIRED, PROVIDE THRUST BLOCKS PER MANUFACTURER'S RECOMMENDATIONS. J. EQUIPMENT AND MATERIALS: INSTALL PER MANUFACTURER'S RECOMMENDATIONS. K. ACCESSIBILITY: INSTALL WORK READILY ACCESSIBLE FOR NORMAL OPERATION, READING OF INSTRUMENTS, ADJUSTMENT, SERVICE, INSPECTION AND REPAIR. PROVIDE ACCESS PANELS WHERE INDICATED AND REQUIRED. L. PIPE JOINTS: MAKE SCREWED JOINTS WITH A MINIMUM AMOUNT OF COMPOUND APPLIED TO THE MALE THREAD ONLY. ALL JOINTS SHALL BE MADE PER CODE REQUIREMENTS. M. PROVIDE PIPE ISOLATION AT ALL HANGERS FOR NON-INSULATED MATERIALS. N. PIPING ROUGH-IN FOR FIXTURES: SUPPORT OR SECURE TO BUILDING CONSTRUCTION OF FIRMLY ANCHORED WASTE PIPING SO THAT PIPES CANNOT BE DISPLACED. DO NOT SECURE TO WALLS. USE OF MAKESHIFT DEVICES, SUCH AS ROPE, WIRE, TAPE, ETC. IS PROHIBITED. O. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL PIPE 4" OR LARGER IN DIAMETER MAY HAVE A SLOPE OF NOT LESS THAN 1% (1/8 INCH PER FOOT). THE MINIMUM SLOPE OF HORIZONTAL PIPE LESS THAN 4" MAY HAVE A SLOPE OF NOT LESS THAN 2% (1/4 INCH PER FOOT).</div>
PLUMBING SPECIFICATIONS	LCSC PA LAB	PROJECT	CLIENT
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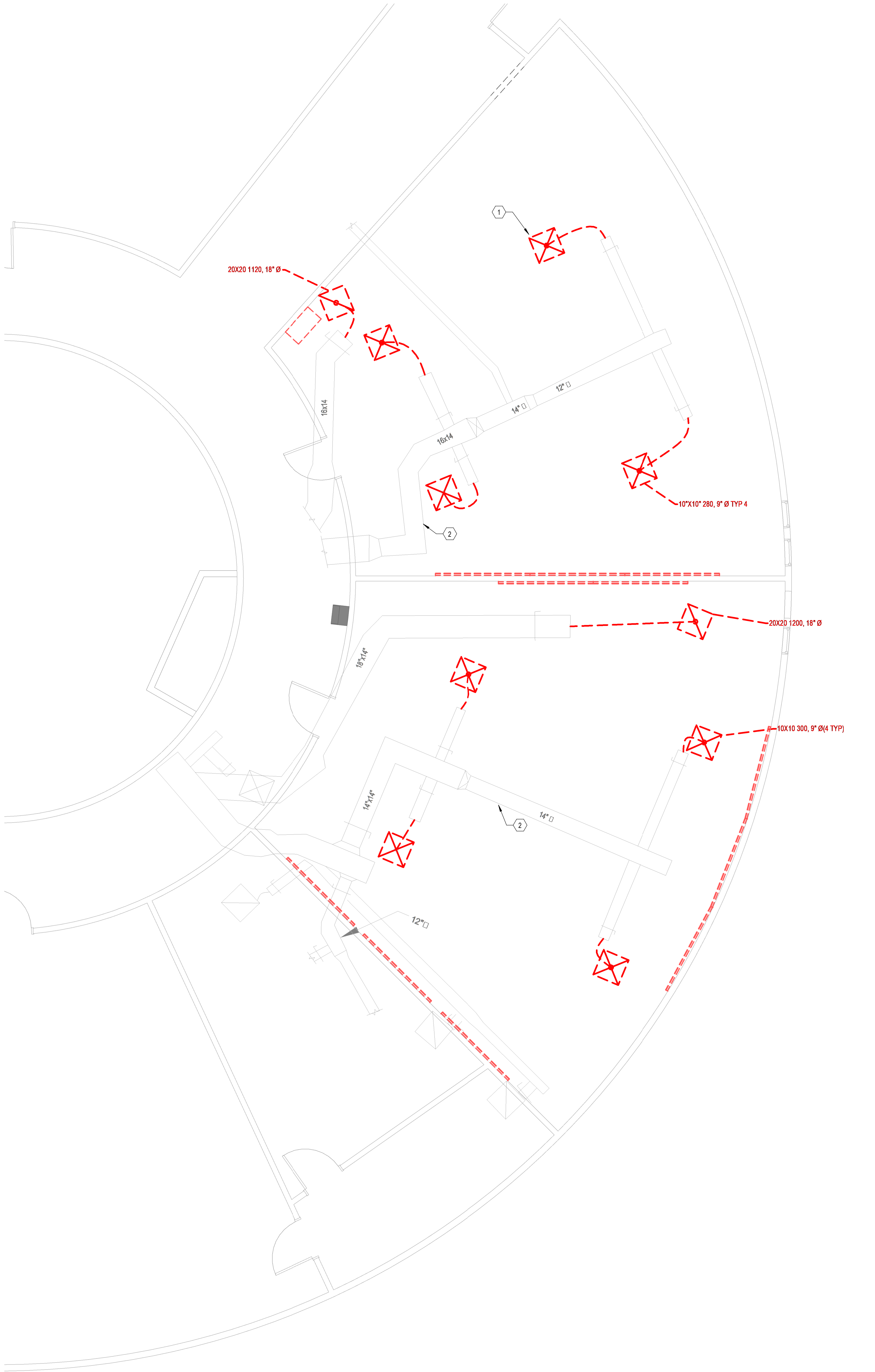
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PLUMBING SPECIFICATIONS

LCSC PA LAB

Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College




LEVEL 2 MECHANICAL HVAC DEMO PLAN

1/4" = 1'-0"



KEYNOTES	
1	EXISTING ELEMENTS SHOWN DARK AND DASHED TO BE DEMOLISHED. TYPICAL.
2	EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.




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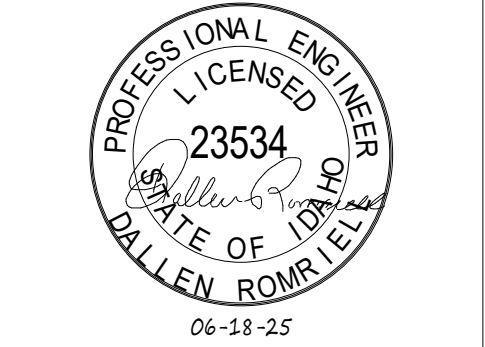
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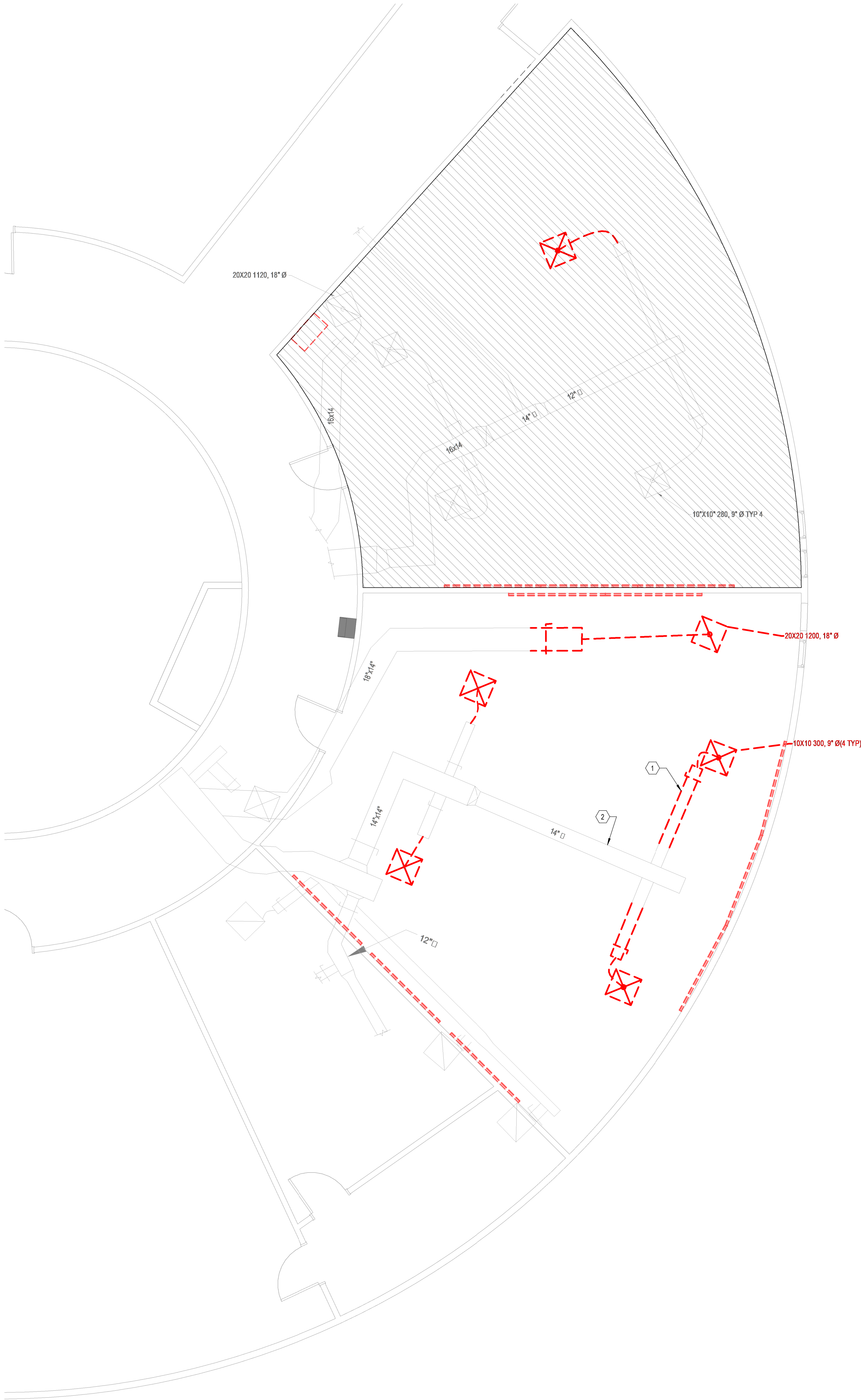


LEVEL 2 MECHANICAL DEMO PLAN
LCSC PA LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501
Lewis Clark State College

TITLE
PROJECT
CLIENT

JOB NO: 240128

MD1.01



ALTERNATE BID LEVEL 2 MECHANICAL HVAC DEMO PLAN

1/4" = 1'-0"



KEYNOTES

- 1 EXISTING ELEMENTS SHOWN DARK AND DASHED TO BE DEMOLISHED. TYPICAL.
- 2 EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.



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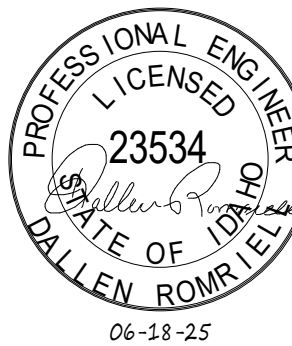


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ALTERNATE BID LEVEL 2 MECHANICAL DEMO PLAN

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: **240128**

MD1.02



LEVEL 2 MECHANICAL HVAC PLAN
1/4" = 1'-0"



KEYNOTES	
1	REPLACE EXISTING DIFFUSERS AND GRILLES WITH NEW. ALIGN ELEMENTS WITH NEW GRID.
2	RELOCATE EXISTING THERMOSTAT TO NEW ROOM.

GRILLE, REGISTER, AND DIFFUSER PA LAB SCHEDULE			
ID	MANUFACTURER AND MODEL	DESCRIPTION	IMAGE
CD1	TITUS CMNI	STYLE: SQUARE PLAQUE FACE CEILING DIFFUSER CONSTRUCTION: STEEL FINISH: POWDER COAT WITH COLOR SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 24"X24", 20"X20", OR 12"X12". VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. CORE: REMOVABLE MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: VARIABLE AIR VOLUME SUPPLY	
RG1	TITUS PAR	STYLE: SQUARE PERFORATED FACE CEILING GRILLE CONSTRUCTION: STEEL FINISH: SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 48"X24", 24"X24", 24"X12", 20"X20", 16"X16", OR 12"X12" AS SHOWN ON PLANS. VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: RETURN OR TRANSFER MINIMUM FREE AREA: 50%	
SHR1	TITUS 350	STYLE: LOUVERED FACE SIDEWALL GRILLE CONSTRUCTION: STEEL, HEAVY DUTY FINISH: POWDER COAT WITH COLOR SELECTED BY ARCHITECT MOUNTING: SURFACE MOUNT FACE SIZE: SEE PLANS. VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. CORE: REMOVABLE MAX NC: 25 DAMPER: NONE CONNECTION: RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: RETURN VANES/BLADES: 3/4" SPACING, 35 DEG DEFLECTION, SINGLE BLADE, BLADES PARALLEL TO FLOOR. MINIMUM FREE AREA: 50%	

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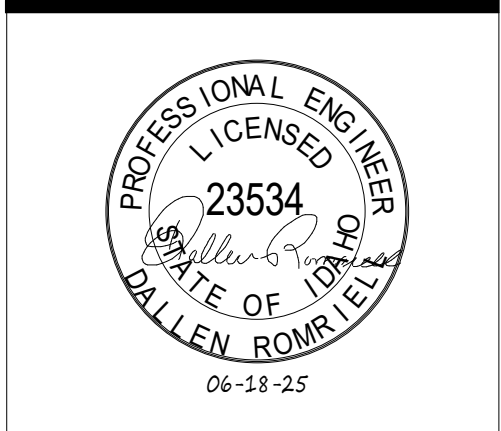
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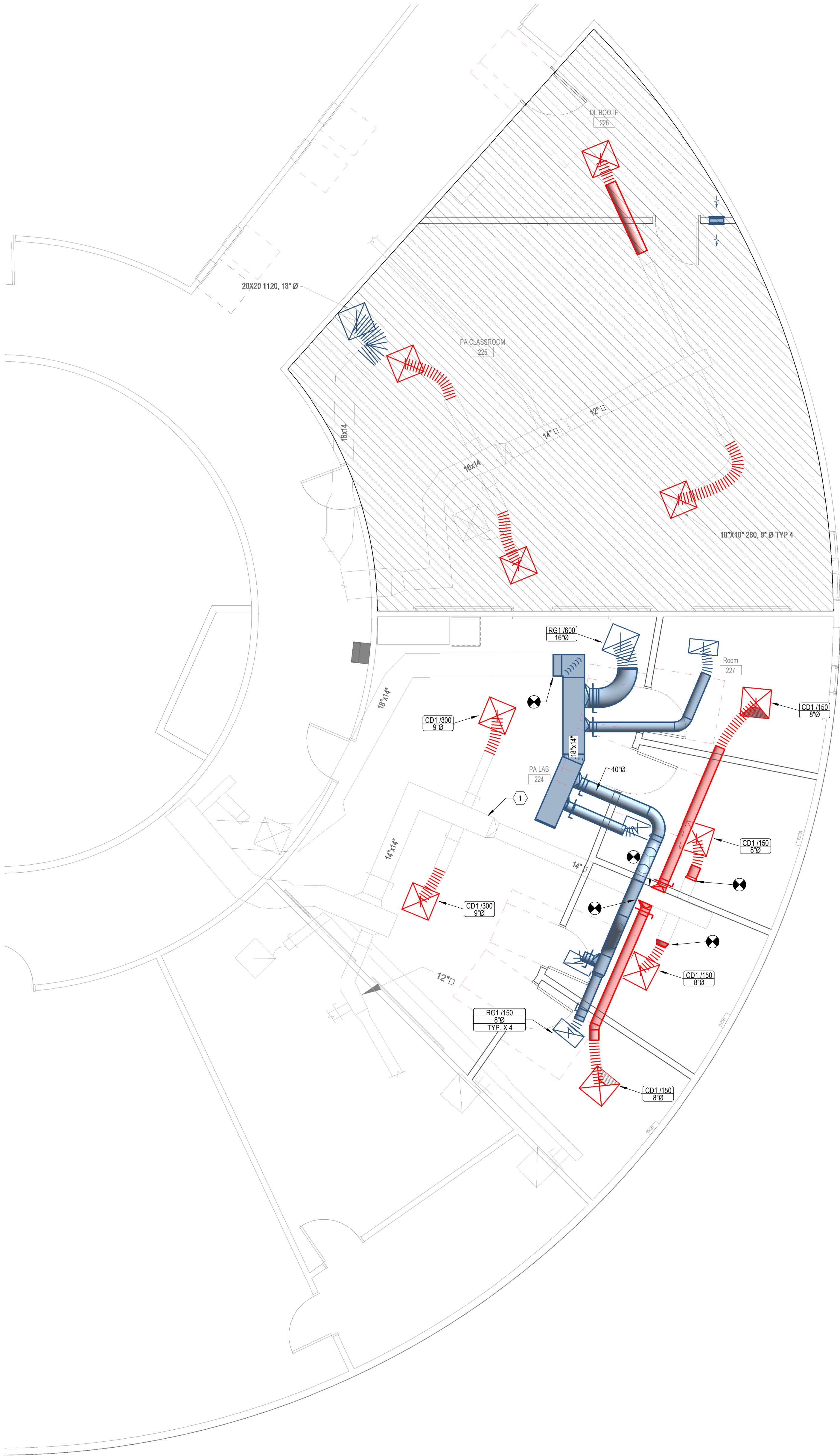
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1	11-21-25	Addendum #1
2	12-15-25	Bid RFI Clarifications



LEVEL 2 MECHANICAL HVAC PLAN		
LCSC PA LAB		
Sam Glenn Complex 500 4th St Lewiston, ID 83501		
Lewis Clark State College		
TITLE	PROJECT	CLIENT
JOB NO: 240128		
M1.01		



ALTERNATE BID LEVEL 2 MECHANICAL HVAC PLAN
1/4" = 1'-0"



KEYNOTES

- 1 EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.

GRILLE, REGISTER, AND DIFFUSER PA LAB ALTERNATE SCHEDULE			
ID	MANUFACTURER AND MODEL	DESCRIPTION	IMAGE
CD1	TITUS OMNI	STYLE: SQUARE PLAQUE FACE CEILING DIFFUSER CONSTRUCTION: STEEL FINISH: POWDER COAT WITH COLOR SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 24"X24", 20"X20", OR 12"X12". VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. CORE: REMOVABLE MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: VARIABLE AIR VOLUME SUPPLY	
RG1	TITUS PAR	STYLE: SQUARE PERFORATED FACE CEILING GRILLE CONSTRUCTION: STEEL FINISH: SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 48"X24", 24"X24", 24"X12", 20"X20", 16"X16", OR 12"X12" AS SHOWN ON PLANS. VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: RETURN OR TRANSFER MINIMUM FREE AREA: 50%	

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ALTERNATE BID LEVEL 2 MECHANICAL HVAC PLAN

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Sam Glenn Complex 500 4th St Lewiston, ID 83501

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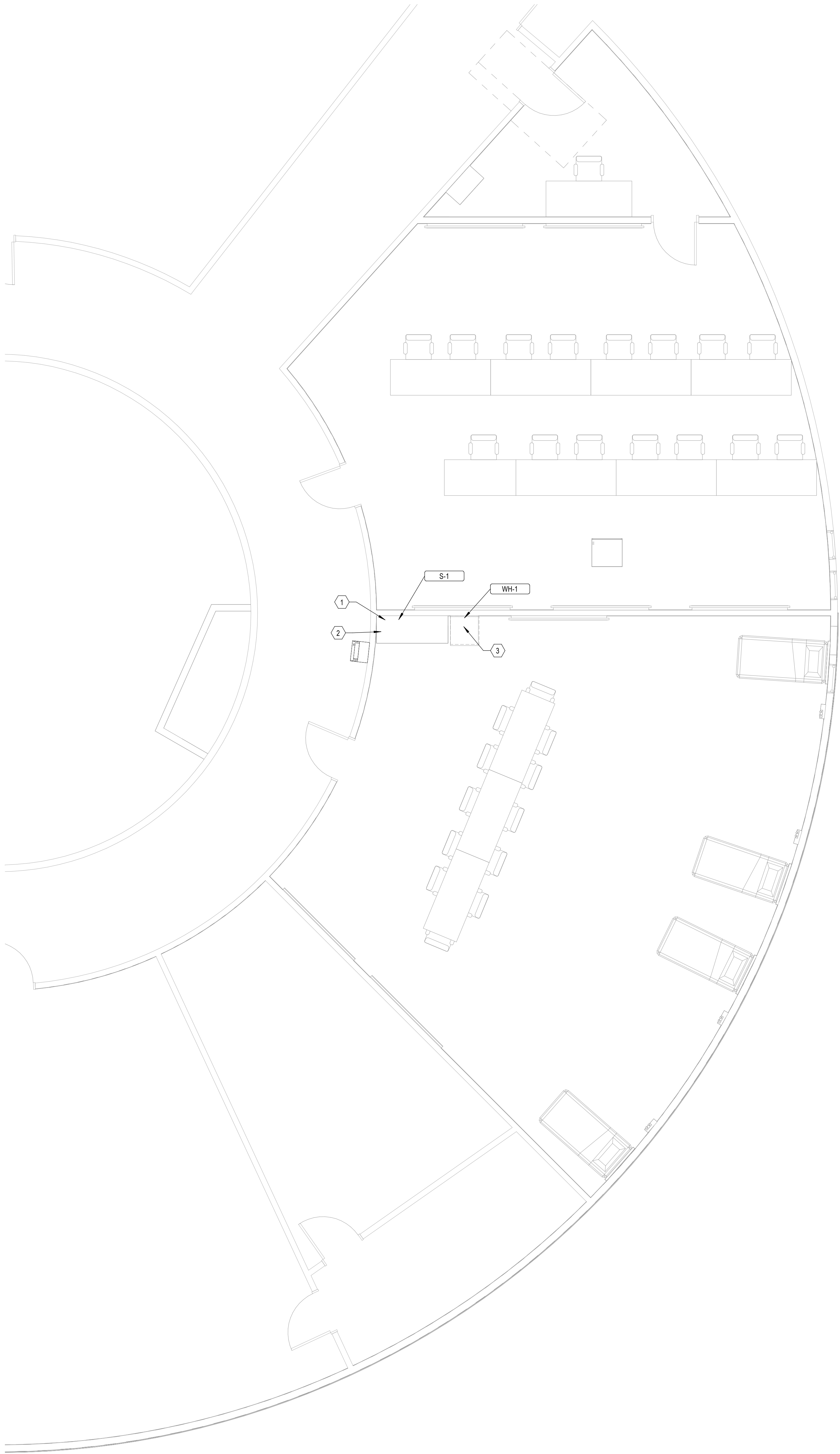
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M1.02



LEVEL 2 PLUMBING PLAN

1/4" = 1'-0"



KEYNOTES

- 1 CONNECT TO EXISTING DOW LINE FROM DRINKING FOUNTAIN.
- 2 SAW CUT TO EXISTING WASTE FROM DRINKING FOUNTAIN.
- 3 INSTALL EEMAX POINT OF USE WATER HEATER IN CABINET. INSTALL PER MANUFACTURER RECOMMENDATIONS.

ELECTRIC WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	ELECTRICAL			PHYSICAL		NOTES
				(WATTS)	V/PH	AMPS	TANK SIZE (GAL)	HEIGHT/ WIDTHXDEPTH (IN)	
WH-1	EEMAX EMT6	PA LAB	POU TANK	1440	120/1	12	6	20'14"14	

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	GW (IN)	HW (IN)	W (IN)	V (IN)	SPECIFICATION
S-1	SCRUB SINK	12	12	1 1/2	1 1/2	SCRUB SINK (STAINLESS STEEL, DUAL STATION) MAC MEDICAL MODEL 8864-PR, TYPE 304 STAINLESS STEEL WITH KNEE OPERATIONS. PROVIDE WITH EYEWASH, BRASS P-TRAP, AND LOOSE KEY ANGLE STOPS. ALTERNATE MANUFACTURERS AND CONFIGURATIONS WILL BE CONSIDERED UPON PRIOR APPROVAL.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.



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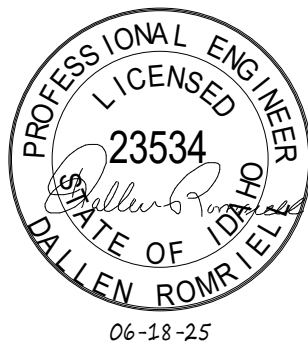


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LEVEL 2 PLUMBING PLAN

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

P1.01

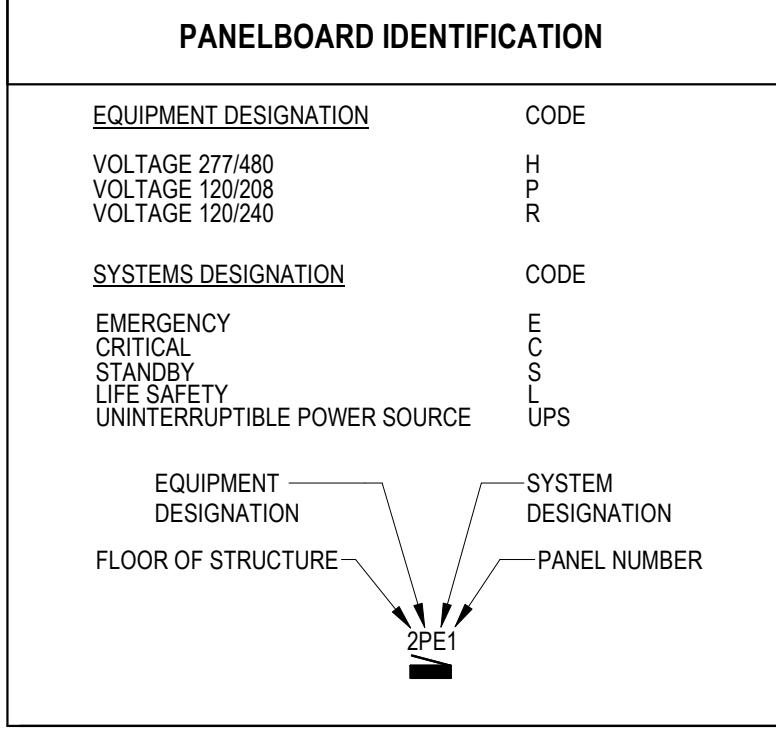
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
	KITCHEN EQUIP. CALLOUT		
	KITCHEN EQUIP. CALLOUT OR AS NOTED BY ARCH.		
	LUMINAIRE TYPE		
	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL/CEILING		
	CONDUIT RUN CONCEALED IN GROUND/FLOOR		
	SURFACE RACEWAY/WIREMOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	EQUIPMENT CONNECTION		
	HOME RUN TO PANEL		
	CONDUIT STUB		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
	CONDUIT BREAK/CONTINUATION		
	FUSE		
	GROUND/GROUND ROD		
	CIRCUIT BREAKER		
NOTES			
(1)	SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.		
(2)	SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.		
(3)	WIRE LIGHT FIXTURE FROM ADJACENT J-BOX		
(4)	CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST.		
(5)	DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.		
(6)	COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS AND APPROVED MILL WORK SHOP DRAWINGS.		
(7)	USE WITH POWER PACK.		
(8)	"X" IN SYMBOL, IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.		
(9)	PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL SYSTEM.		
(10)	MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.		
(11)	USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.		
(12)	PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICES/FIXTURE SERVED.		
(13)	USE HEAVY DUTY DEVICE FOR 480 VOLT.		
(14)	SIZE TO THE EQUIPMENT BEING CONTROLLED.		
(15)	FIRE ALARM PANEL S: FAC: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE CIRCUIT PANEL, ANNU: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL.		
(16)	LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.		

FIRE ALARM SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	SMOKE DETECTOR	CEILING	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)
	CARBON MONOXIDE DETECTOR	CEILING	(9) (11)
	DUCT SMOKE DETECTOR	SEE MECH.	(9)
	FIRE/SMOKE DAMPER	SEE MECH.	
	HEAT DETECTOR	CEILING	(9) (11)
	BEAM DETECTOR, RECEIVER		(9)
	BEAM DETECTOR, TRANSMITTER		(9)
	BEAM DETECTOR, RECEIVER/TRANSMITTER		(9)
	BEAM DETECTOR, REFLECTOR		(9)
	FLAME DETECTOR		(9)
	FIRE FIGHTER TELEPHONE OUTLET		(9) (11)
	FIRE ALARM MANUAL PULL STATION	4'-0"	(9) (11)
	FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	
	FIRE ALARM HORN	7'-6"	(9) (11)
	FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM SPEAKER	7'-6"	(9) (11)
	FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	CEILING MOUNT FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)
	CEILING MOUNT FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)
	CEILING MOUNT FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)
	CEILING MOUNT FIRE ALARM HORN	CEILING	(9) (11)
	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)
	FIRE ALARM CHIME	AS NOTED	(9)
	FIRE ALARM, LOW FREQUENCY, VISUAL	AS NOTED	(9)
	FIRE ALARM, LOW FREQUENCY, NON-VISUAL	AS NOTED	(9)
	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED	
	RELAY MODULE		(9)
	MONITOR MODULE		(9)
	CONTROL MODULE		(9)
	PRESSURE SWITCH		(9)
	TAMPER SWITCH		(9)
	FLOW SWITCH		(9)
	LOOP ISOLATION MODULE		(9)
	FIRE EXTINGUISHER MONITOR		(9)
	FIRE RISER	SEE PLANS	
	ANNUNCIATOR PANEL		(9)
	NOTIFICATION APPLIANCE CONTROL PANEL		(15)
	FIRE ALARM PANEL, SURFACE	AS NOTED	(15)
	FIRE ALARM PANEL, RECESSED	AS NOTED	(15)

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
	STANDARD CONVENIENCE OUTLET	18"	
	CONVENIENCE OUTLET, GFCl	18"	
	STANDARD CONVENIENCE OUTLET, HOSPITAL	18"	
	STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, GFCl, CUSTOM HEIGHT	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
	CONVENIENCE OUTLET, GFCl, CUSTOM HEIGHT, HOSPITAL	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, FLOOR	FLOOR	
	CONVENIENCE OUTLET, CEILING	CEILING	
	2 CIRCUITS TO EACH DEVICE	18"	
	COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
	DUPLICATE OUTLET, POP-UP	COUNTERTOP	
	SPECIAL PURPOSE OUTLET		
	DIRECT CONNECTION TO EQUIPMENT		
	CORD DROP OUTLET	SUSPENDED	
	CORD REEL OUTLET	SUSPENDED	
	POKE THRU, POWER	FLOOR	
	POKE THRU, POWER AND DATA	FLOOR	
	POKE THRU, POWER AND DATA W/AV	FLOOR	
	POWER/VOICE-DATA SERVICE POLE	AS NOTED	
	DISTRIBUTION JUNCTION UNIT		
	VARIABLE FREQUENCY DRIVE		
	SURGE PROTECTION DEVICE		
	JUNCTION BOX	AS NOTED	(12)
	JUNCTION BOX, WALL	AS NOTED	(12)
	JUNCTION BOX, FLOOR	FLOOR	(12)
	CLOCK OUTLET		(*)
	MANUAL MOTOR CONTROLLER SWITCH WITHOUT TERMINAL OVERLOAD PROTECTION		
	SWITCH WITH PILOT LIGHT		
	MANUAL SWITCH WITH THERMAL OVERLOAD		
	SINGLE POLE DOOR SWITCH		
	PUSH BUTTON SWITCH, SINGLE	AS NOTED	
	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
	BUSH BUTTON SWITCH, TRIPLE	AS NOTED	
	EMERGENCY POWER OFF (EPO) SWITCH		
	NON-FUSED DISCONNECT SWITCH		(13) (14)
	FUSED DISCONNECT SWITCH		(13) (14)
	MAGNETIC STARTER		(13) (14)
	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	POWER RELAY		(13) (14)
	MOTOR OUTLET		
	MOTOR OUTLET, ROOF MOUNTED	ROOF	
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	
	LIGHTNING PROTECTION BOND PLATE		
	LIGHTNING PROTECTION GROUND ROD	GROUND	
	POKE THRU		
	UTILITY POWER POLE	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	EMERGENCY GENERATOR	SEE PLANS	
	GENERATOR ANNUNCIATOR PANEL	SEE PLANS	
	AUTOMATIC TRANSFER SWITCH	SEE PLANS	
	CABLE TRAY		
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	
	PANEL BOARD, RECESSED	6'-6" TO TOP	

LIGHTING SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
	CEILING LIGHT FIXTURE	CEILING	(1) (2)
	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
	WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
	TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
	CEILING FAN	SUSPENDED	
	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
	AREA LIGHT FIXTURE	POLE	(1) (2)
	BOLLARD LIGHT	GROUND	
	BOLLARD LIGHT, POLE TOP AREA LIGHT	POLE	(1) (2)
	EXIT SIGN, WALL, ARROW INDICATES DIRECTION	7'-6"	(1) (2) (4) (5)
	EXIT SIGN, ARROW INDICATES DIRECTION	CEILING	(1) (4) (5)
	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
	PHOTO-ELECTRIC CELL	AS NOTED	
	POWER PACK	CEILING	
	SLAVE PACK	CEILING	
	MINI POWER PACK	CEILING	
	ROOM CONTROLLER	CEILING	
	EMERGENCY CONTROL UNIT	CEILING	
	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH WITH DIMMER, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 2-BUTTON	4'-0"	(7)
	DAYLIGHT SENSOR	CEILING	
	PASSIVE INFRARED SENSOR	CEILING	
	SINGLE POLE SWITCH	4'-0"	
	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
	THREE WAY SWITCH	4'-0"	
	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE SWITCHING	4'-0"	
	FOUR WAY SWITCH	4'-0"	
	DUAL LEVEL SWITCH BANK	4'-0"	
	DIMMER SWITCH	4'-0"	
	LOW VOLTAGE SWITCH	4'-0"	
	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
	TOUCH PANEL	4'-0"	
	TIME CLOCK	AS NOTED	
	LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	
	LIGHTING CONTROL PANEL, RECESSED	6'-6" TO TOP	

TELECOMMUNICATION SYMBOL SCHEDULE			
	TELEPHONE OUTLET, SINGLE PORT	18"	
	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)
	DATA OUTLET, DUAL PORT	18"	
	DATA OUTLET, CUSTOM HEIGHT		(6)
	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
	DUAL DATA AND SINGLE TELEPHONE PORT, CUSTOM HEIGHT		(6)
	DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
	CEILING WI-FI ACCESS POINT	CEILING	
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	MINIMUM DISTRIBUTION FRAME	6'-6" TO TOP	
	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	



GENERAL NOTES

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE. SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE ORDER IS COMPLETED. THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELEDATA ROOM FROM WHICH NEW TELEDATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELEDATA CABLING.
9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
14. MINIMUM SIZE CONDUIT SHALL BE 3/4" ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH 90° ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
20. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
21. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
22. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT SOLELY FROM THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBER.
23. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURE, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICIACY, LUMEN OUTPUT AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
24. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120/277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF #12(CU, THHN) FOR 120VAC EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU, THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
25. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.
26. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATION OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS, WIRES, AND OVERCURRENT PROTECTION PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
27. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UNNEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
28. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
30. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS, IN THE MECHANICAL ROOM MUST BE CONCEALED WITHIN WALLS/CEILINGS. COORDINATE WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
31. PROVIDE AN IDENTIFIED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT IDENTIFIED BY THE ROOM AND EQUIPMENT DIRECTORY WITH PROJECT COMPLETION DATE. MODIFIED CIRCUITS TO BE IN BOLD.
32. SUBMIT A SCALED LABEL (1/4" x 1" IF ALL ELECTRICAL ROOMS BASED ON THE ROOM AND EQUIPMENT IDENTIFIED BY THE ROOM AND EQUIPMENT DIRECTORY).
33. PROVIDE A CLEAR, TYPED LABEL ON THE FACEPLATE OF ALL RECEPTABLES AND LIGHT SWITCHES INDICATING THE CIRCUIT IT IS TIED TO. USE LABELING CONVENTION XX-XX, WHERE XX IS THE NAME OF THE CIRCUIT AND XX IS THE CIRCUIT NUMBER. CIRCUIT NUMBER, LABELS LENGTH SHALL NOT EXCEED 1/4" ON EITHER SIDE OF TEXT.
34. FUSED DISCONNECTS TO BE HEAVY DUTY.
35. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE STRUCTURED CABLING FROM EACH TELEDATA/CATV OUTLET TO THE TELEPHONE/DATA BOARD/RACK. THE CABLE SHALL BE LABELED ON EACH END FOR PROPER IDENTIFICATION BEFORE THE CABLE IS CONNECTED TO THE TELEPHONE/DATA BOARD/RACK. THE CABLE SHALL BE LABELED IN THE OUTLET AND IN THE PATCH PANEL OR BLOCK ON THE TELEPHONE TERMINAL BOARD AND/OR RACK. IN AREAS WHERE EXPOSED WIRING ABOVE CEILINGS IS REQUIRED, THE CABLE SHALL BE LABELED IN THE TELEPHONE/DATA BOARD/RACK AND IN THE PLENUM RATED ALL TELEDATA CABLING SHALL BE CATEGORY 6 RATED. ROUTE ALL CABLING FROM THE OUTLET TO THE TERMINAL BOARD/WALL MOUNTED RACK AND FROM THE TERMINAL BOARD/WALL MOUNTED RACK TO THE TELEPHONE/DATA BOARD/RACK. PROVIDE AND INSTALL BY THE OWNER.
36. ALL TELECOMMUNICATIONS WIRING SHALL BE INSTALLED WITHIN CONDUIT UNLESS OTHERWISE NOTED. PROVIDE A DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT. SHARED NEUTRALS ARE NOT ALLOWED.

ELECTRICAL SPECIFICATIONS

FIRE ALARM

3.1 EXAMINATION

A. EXAMINE AREAS AND CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR VENTILATION, TEMPERATURE, HUMIDITY, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.

1. VERIFY THAT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ENVIRONMENTAL CONDITIONS HAVE BEEN PERMANENTLY ESTABLISHED IN SPACES WHERE EQUIPMENT AND WIRING ARE INSTALLED, BEFORE INSTALLATION BEGINS.

B. EXAMINE ROUGH-IN FOR ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE INSTALLATION.

C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 EQUIPMENT INSTALLATION

A. COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR INSTALLATION AND TESTING OF FIRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE ALARM SYSTEMS."

1. DEVICES PLACED IN SERVICE BEFORE ALL OTHER TRADES HAVE COMPLETED CLEANUP SHALL BE REJECTED.

2. DEVICES INSTALLED BUT NOT YET PLACED IN SERVICE SHALL BE PROTECTED FROM CONSTRUCTION DUST, DEBRIS, DIRT, MOISTURE, AND DAMAGE ACCORDING TO MANUFACTURER'S WRITTEN STORAGE INSTRUCTIONS.

B. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE-ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS.

1. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF THE BUILDING.

2. CONNECT NEW EQUIPMENT TO EXISTING MONITORING EQUIPMENT AT THE SUPERVISING STATION.

3. EXPAND, MODIFY, AND SUPPLEMENT EXISTING [CONTROL] [MONITORING] EQUIPMENT AS NECESSARY TO EXTEND EXISTING [CONTROL] [MONITORING] FUNCTIONS TO THE NEW POINTS. NEW COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION WITHOUT DEGRADING THE PERFORMANCE OF EITHER SYSTEM.

C. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR.

1. COMPLY WITH REQUIREMENTS FOR SEISMIC-RESTRAINT DEVICES SPECIFIED IN SECTION 260548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS."

D. MANUAL FIRE-ALARM BOXES

1. INSTALL MANUAL FIRE-ALARM BOX IN THE NORMAL PATH OF EGRESS WITHIN 60 INCHES OF THE EXIT DOORWAY.

2. MOUNT MANUAL FIRE-ALARM BOX ON A BACKGROUND OF A CONTRASTING COLOR.

3. THE OPERABLE PART OF MANUAL FIRE-ALARM BOX SHALL BE BETWEEN 42 INCHES AND 48 INCHES ABOVE FLOOR LEVEL. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

E. SMOKE- OR HEAT-DETECTOR SPACING:

1. COMPLY WITH THE "SMOKE-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR SMOKE-DETECTOR SPACING.

2. COMPLY WITH THE "HEAT-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR HEAT-DETECTOR SPACING.

3. SMOOTH CEILING SPACING SHALL NOT EXCEED 30 FEET.

4. SPACING OF DETECTORS FOR IRREGULAR AREAS, FOR IRREGULAR CEILING CONSTRUCTION, AND FOR HIGH CEILING AREAS SHALL BE DETERMINED ACCORDING TO ANNEX A IN NFPA 72.

5. HVAC: LOCATE DETECTORS NOT CLOSER THAN 36 INCHES FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.

6. LIGHTING FIXTURES: LOCATE DETECTORS NOT CLOSER THAN 12 INCHES FROM ANY PART OF A LIGHTING FIXTURE AND NOT DIRECTLY ABOVE PENDANT MOUNTED OR INDIRECT LIGHTING.

F. INSTALL A COVER ON EACH SMOKE DETECTOR THAT IS NOT PLACED IN SERVICE DURING CONSTRUCTION. COVER SHALL REMAIN IN PLACE EXCEPT DURING SYSTEM TESTING. REMOVE COVER PRIOR TO SYSTEM TURNOVER.

G. DUCT SMOKE DETECTORS: COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING TUBES SO THEY EXTEND THE FULL WIDTH OF DUCT. TUBES MORE THAN 36 INCHES LONG SHALL BE SUPPORTED AT BOTH ENDS.

1. DO NOT INSTALL SMOKE DETECTOR IN DUCT SMOKE-DETECTOR HOUSING DURING CONSTRUCTION. INSTALL DETECTOR ONLY DURING SYSTEM TESTING AND PRIOR TO SYSTEM TURNOVER.

H. AIR-SAMPLE SMOKE DETECTORS: IF USING MULTIPLE PIPE RUNS, THE RUNS SHALL BE PNEUMATICALLY BALANCED.

I. ELEVATOR SHAFTS: COORDINATE TEMPERATURE RATING AND LOCATION WITH SPRINKLER RATING AND LOCATION.

J. SINGLE-STATION SMOKE DETECTORS: WHERE MORE THAN ONE SMOKE ALARM IS INSTALLED WITHIN A DWELLING OR SUITE, THEY SHALL BE CONNECTED SO THAT THE OPERATION OF ANY SMOKE ALARM CAUSES THE ALARM IN ALL SMOKE ALARMS TO SOUND.

K. REMOTE STATUS AND ALARM INDICATORS: INSTALL IN A VISIBLE LOCATION NEAR EACH SMOKE DETECTOR, SPRINKLER WATER-FLOW SWITCH, AND VALVE-TAMPER SWITCH THAT IS NOT READILY VISIBLE FROM NORMAL VIEWING POSITION.

L. AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT LESS THAN 6 INCHES BELOW THE CEILING. INSTALL BELL AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE OPERATING MECHANISM CONCEALED BEHIND A GRILLE. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

M. VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALARM HORN AND AT LEAST 6 INCHES BELOW THE CEILING. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.

N. DEVICE LOCATION-INDICATING LIGHTS: LOCATE IN PUBLIC SPACE NEAR THE DEVICE THEY MONITOR.

O. ANTENNA FOR RADIO ALARM TRANSMITTER: MOUNT TO BUILDING STRUCTURE WHERE INDICATED. USE MOUNTING ARRANGEMENT AND SUBSTRATE CONNECTION THAT RESISTS [100-MPH (160-KMH)]-INSET VALUE]- WIND LOAD WITH A GUST FACTOR OF 1.3 WITHOUT DAMAGE.

P. CONDUCTORS PROVIDE MINIMUM #14 AWG COPPER CONDUCTORS. SHIELDED AND/OR STRANDED CONDUCTORS SHALL BE PROVIDED PER THE MANUFACTURER'S INSTRUCTIONS.

Q. OVERCURRENT PROTECTION DEVICE: CIRCUIT BREAKERS FEEDING THE FIRE ALARM CONTROL PANEL OR OTHER FIRE ALARM SYSTEM DEVICES SHALL BE PAINTED RED AND SHALL BE LABELED "FIRE ALARM SYSTEM - DO NOT TURN OFF."

3.3 PATHWAYS

A. PATHWAYS SHALL BE INSTALLED IN EMT. MINIMUM SIZE SHALL BE 1/2".

B. EXPOSED EMT AND JUNCTION BOXES SHALL BE PAINTED RED ENAMEL.

3.4 CONNECTIONS

A. FOR FIRE-PROTECTION SYSTEMS RELATED TO DOORS IN FIRE-RATED WALLS AND PARTITIONS AND TO DOORS IN SMOKE PARTITIONS, COMPLY WITH REQUIREMENTS IN SECTION 087100 "DOOR HARDWARE." CONNECT HARDWARE AND DEVICES TO FIRE-ALARM SYSTEM.

1. VERIFY THAT HARDWARE AND DEVICES ARE LISTED FOR USE WITH INSTALLED FIRE-ALARM SYSTEM BEFORE MAKING CONNECTIONS.

B. MAKE ADDRESSABLE CONNECTIONS WITH A SUPERVISED INTERFACE DEVICE TO THE FOLLOWING DEVICES AND SYSTEMS. INSTALL THE INTERFACE DEVICE LESS THAN 36 INCHES FROM THE DEVICE CONTROLLED. MAKE AN ADDRESSABLE CONFIGURATION CONNECTION WHEN SUCH FEEDBACK IS AVAILABLE AT THE DEVICE SYSTEM BEING CONTROLLED.

1. ALARM-INITIATING CONNECTION TO SMOKE-CONTROL SYSTEM (SMOKE MANAGEMENT) AT FIREFIGHTERS' SMOKE-CONTROL SYSTEM PANEL.

2. ALARM-INITIATING CONNECTION TO STAIRWELL AND ELEVATOR-SHAFT PRESSURIZATION SYSTEMS.

3. SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED HVAC DUCT SYSTEMS.

4. MAGNETICALLY HELD-OPEN DOORS.

5. ELECTRONICALLY LOCKED DOORS AND ACCESS GATES.

6. ALARM-INITIATING CONNECTION TO ELEVATOR RECALL SYSTEM AND COMPONENTS.

7. ALARM-INITIATING CONNECTION TO ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES.

8. SUPERVISORY CONNECTIONS AT VALVE SUPERVISORY SWITCHES.

9. SUPERVISORY CONNECTIONS AT LOW-AIR-PRESSURE SWITCH OF EACH DRY-PIPE SPRINKLER SYSTEM.

10. SUPERVISORY CONNECTIONS AT ELEVATOR SHUNT-TRIP BREAKER.

11. DATA COMMUNICATION CIRCUITS FOR CONNECTION TO MASS NOTIFICATION SYSTEM.

12. SUPERVISORY CONNECTIONS AT FIRE-EXTINGUISHER LOCATIONS.

13. SUPERVISORY CONNECTIONS AT FIRE-PUMP POWER FAILURE INCLUDING A DEAD-PHASE OR PHASE-REVERSAL CONDITION.

14. SUPERVISORY CONNECTIONS AT FIRE-PUMP ENGINE CONTROL PANEL.

3.5 IDENTIFICATION

A. IDENTIFY SYSTEM COMPONENTS, WIRING, CABLEING, AND TERMINALS. COMPLY WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION 26 0553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."

B. INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE-ALARM CONTROL UNIT.

3.6 GROUNDING

A. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.

B. GROUND SHIELDED CABLES AT THE CONTROL PANEL LOCATION ONLY. INSULATE SHIELD AT DEVICE LOCATION.

	FIELD QUALITY CONTROL
A.	FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.
B.	MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TEST AND INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.
C.	PERFORM TESTS AND INSPECTIONS.
D.	PERFORM THE FOLLOWING TESTS AND INSPECTIONS:
1.	VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.
a.	INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY THE "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72.
b.	COMPLY WITH THE "INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72; RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.
2.	SYSTEM TESTING: COMPLY WITH THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
3.	TEST AUDIBLE SIGNALS FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. FOR THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.
4.	TEST AUDIBLE APPLIANCES FOR THE PRIVATE OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
5.	TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
6.	FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
E.	REACCEPTANCE TESTING: PERFORM REACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF ADDED OR REPLACED DEVICES AND APPLIANCES.
F.	FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
G.	PREPARE TEST AND INSPECTION REPORTS.
H.	MAINTENANCE TEST AND INSPECTION: PERFORM TESTS AND INSPECTIONS LISTED FOR WEEKLY, MONTHLY, QUARTERLY, AND SEMIANNUAL PERIODS. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.
I.	ANNUAL TEST AND INSPECTION: ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, TEST FIRE-ALARM SYSTEM COMPLYING WITH VISUAL AND TESTING INSPECTION REQUIREMENTS IN NFPA 72. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.
J.	MAINTENANCE SERVICE
A.	INITIAL MAINTENANCE SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, MAINTENANCE SERVICE SHALL INCLUDE 12 MONTHS FULL MAINTENANCE BY SKILLED EMPLOYEES OF MANUFACTURER'S DESIGNATED SERVICE ORGANIZATION. INCLUDE PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJUSTING AS REQUIRED FOR PROPER OPERATION. PARTS AND SUPPLIES SHALL BE MANUFACTURER'S AUTHORIZED REPLACEMENT PARTS AND SUPPLIES.
1.	INCLUDE VISUAL INSPECTIONS ACCORDING TO THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
2.	PERFORM TESTS IN THE "TEST METHODS" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
3.	PERFORM TESTS PER THE "TESTING FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
B.	SOFTWARE SERVICE AGREEMENT
A.	COMPLY WITH UL 864.
B.	TECHNICAL SUPPORT: BEGINNING AT SUBSTANTIAL COMPLETION, SERVICE AGREEMENT SHALL INCLUDE SOFTWARE SUPPORT FOR TWO YEARS.
C.	UPGRADE SERVICE: AT SUBSTANTIAL COMPLETION, UPDATE SOFTWARE TO LATEST VERSION. INSTALL AND PROGRAM SOFTWARE UPGRADES THAT BECOME AVAILABLE WITHIN TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION. MECHANISM OF UPGRADE SHALL INCLUDE OPERATING SYSTEM AND NEW OR REVISED LICENSES FOR USING SOFTWARE.
1.	UPGRADE NOTICE: AT LEAST 30 DAYS TO ALLOW OWNER TO SCHEDULE ACCESS TO SYSTEM AND TO UPGRADE COMPUTER EQUIPMENT IF NECESSARY.
D.	DEMONSTRATION
A.	TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

ELECTRICAL SPECIFICATIONS

MATERIALS

A.	GENERAL
1.	MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS EQUALLY QUALIFIED TO MANUFACTURE OF THE PRODUCT TO BE USED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.
B.	RACEWAY
1.	ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
2.	GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR CONDUIT ON OR BELOW FLOOR JUNCTION BOX, LUMINAIRES AND TRANSFORMERS AND AS INDICATED. LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.
3.	SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISERS) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.
4.	3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.
5.	OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.
C.	FITTINGS
1.	ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.
D.	OUTLET AND JUNCTION BOXES
1.	BOXES EXCEEDING 14 INCHES SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP; APPLETON, RACO, OR EQUAL.
2.	BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FUTURE STUDS AS REQUIRED.
3.	BOXES FOR FLOOR OUTLETS SHALL BE UL LISTED FOR USE IN APPLICATION:
a.	POURED IN PLACE IN CONCRETE BOXES SHALL BE LEGRAND RFP TYPE OR APPROVED EQUAL. BOXES SHALL CONTAIN POWER, DATA OR BOTH AS CALLED FOR ON THE PLANS. ACTIVATION COVER: 180 DEGREE COVER OPENING TO LAY FLAT TO REDUCE TRIPPING HAZARDS. SPRING-LOADED SELF-CLOSING SLIDE CABLE EGRESS DOORS TO REDUCE EGRESS OPENING WHEN CABLES ARE EXISTING TO REDUCE TRIP HAZARDS. FLANGELESS FOR TILE APPLICATION. COLOR SHALL BE BY ARCHITECT.
b.	POKE THRU/ASTM FLOOR DEVICES BOXES SHALL BE FACTORY-FABRICATED AND WIRED ASSEMBLY OF BELOW-FLOOR JUNCTION BOX WITH MULTICHANNELLED, THROUGH-FLOOR RACEWAY/FIRESTOP JUNT AND DETACHABLE MATCHING FLOOR SERVICE-OUTLET ASSEMBLY. SERVICE-OUTLET ASSEMBLY: RECESSED TYPE WITH TWO SIMPLEX RECEPTACLES AND SPACE FOR TWO RJ-45 JACKS COMPLYING WITH REQUIREMENTS IN SECTION 27.1500 "COMMUNICATIONS HORIZONTAL CABLING." SIZE: SELECTED TO FIT MINIMUM NOMINAL 4-INCH CORED HOLES IN FLOOR AND MATCHES TO FLOOR THICKNESS. UNIT IS LISTED AND LABELED FOR FIRE RATING OF FLOOR-CELING ASSEMBLY. WIRING RACEWAYS AND COMPARTMENTS: FOR A MINIMUM OF FOUR NO. 12 AWG CONDUCTORS AND A MINIMUM OF FOUR, FOUR-PAIR CABLES.
c.	FLUSH FLOORING FEED POKE-THRU ASSEMBLY SHALL BE FACTORY FABRICATED AND CONTAIN 1/314" CONDUIT AND (1) 1/5" CONDUIT FOR POWER AND DATA RESPECTIVELY. SIZE: SELECTED TO FIT MINIMUM NOMINAL 4-INCH CORED HOLES IN FLOOR AND MATCHES TO FLOOR THICKNESS. UNIT IS LISTED AND LABELED FOR FIRE RATING OF FLOOR-CELING ASSEMBLY. WIRING RACEWAYS AND COMPARTMENTS: FOR A MINIMUM OF FOUR NO. 12 AWG CONDUCTORS AND A MINIMUM OF FOUR, FOUR-PAIR CABLES. COVER: SHALL BE FLANGED OR FLANGELESS TO MATCH FLOORING TYPE. COVER COLOR SHALL BE BY ARCHITECT.
4.	PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
5.	BOXES FOR STRUCTURED CABLEING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8"; APPLETON, RAYCO OR EQUAL.
6.	ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WET MATERIAL.
7.	OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.

E.	CONDUCTORS
1.	ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.
2.	CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.

F.	WIRING CONNECTIONS
1.	MAKE ALL ELECTRICAL CONNECTIONS.
2.	MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPICE UNIT.
3.	DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.

ELECTRICAL SPECIFICATIONS

DEMOLITION

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND NECESSARY EQUIPMENT TO PERFORM ALL ELECTRICAL DEMOLITION AS SHOWN ON DRAWINGS. WHERE EQUIPMENT IS TO BE REMOVED IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DE-ENERGIZE AND DISCONNECT ALL POWER AND DISCONTINUATION OF SERVICE TO THE EQUIPMENT. A SAFE REMOVAL OF EQUIPMENT, ABANDONED WIRES/CABLES AND CONDUIT SHALL BE REMOVED BACK TO SOURCE OR TO NEAREST UPSTREAM ACTIVE DEVICE/EQUIPMENT TO REMAIN. REMOVE ABANDONED JUNCTION BOXES. PROVIDE ALL WORK REQUIRED TO MAINTAIN EXISTING CIRCUITS OUTSIDE OF REMODEL AREA IN SERVICE. IF CONDUIT IS INACCESSIBLE, CUT FLUSH WITH THE STRUCTURAL SURFACE AND PATCH TO MATCH EXISTING FINISHED SURFACE.
2. DEMOLITION WORK INDICATED IN DRAWINGS IS BASED ON CASUAL FIELD OBSERVATION AND AS-BUILT DRAWINGS. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING ANY EXISTING INSTALLATION. THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS OF PROJECT BY STARTING DEMOLITION WORK.
3. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP. SALVAGED ITEMS TO BE RETURNED TO THE OWNER SHALL BE CAREFULLY REMOVED, BOXED, AND DELIVERED TO THE OWNER'S DESIGNATED LOCATION.
4. ALL CIRCUITS THAT WILL BE INSIDE SCOPE OF PROJECT SHALL BE MADE SAFE FOR CONSTRUCTION AND POWER SHALL BE REESTABLISHED AND ESTABLISHED WHERE REQUIRED THROUGHOUT THE SCOPE OF THE PROJECT.
5. ANY WIRES AND CONDUITS TO BE REUSED IN NEW CONSTRUCTION SHALL BE INSPECTED AND REPLACED AS REQUIRED FOR NEW CONSTRUCTION.
6. WHERE THE NEED TO RESTORE WORK IN SERVICE IS DAMAGED, RESTORE TO ORIGINAL CONDITION USING NEW PRODUCTS OF EQUAL QUALITY AND CAPACITY.
 - A. EXISTING FIRE ALARM DEVICES SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION. DURING TIMES WHERE SYSTEM CANNOT REMAIN IN SERVICE, PROVIDE 24-HOUR FIRE WATCH.
 - B. TURN OFF UNUSED CIRCUIT BREAKERS AT THE PANEL AND LABEL AS "SPARE" ON CIRCUIT DIRECTORY.
 - C. PROVIDE KNOCK-OUT SEALS FOR PANELBOARDS, J-BOXES, ETC. WHERE KNOCK-OUTS HAVE BEEN REMOVED.
 - D. PROVIDE FILLER PLATES FOR EMPTY BREAKER SPACES IN PANELBOARDS.
 - E. WHERE EXISTING DEVICES OR EQUIPMENT OBSTRUCT THE NEW CONSTRUCTION, RELOCATE, REMOVE, AND RECONNECT AS REQUIRED.
 - F. WHERE EXISTING DEVICES/FIXTURES ARE TO REMAIN OR REUSED, BUT CEILINGS, FLOORS, OR WALLS ARE BEING REFINISHED, DISCONNECT THE EXISTING DEVICE/FIXTURE AND STORE IN A SECURE LOCATION FOR REINSTALL. CLEAN DEVICES/FIXTURES. RECONNECT DEVICES/FIXTURES AFTER SURFACE IS REFINISHED. PROVIDE BOX EXTENDERS, ETC. AS REQUIRED FOR A FLUSH INSTALLATION. WHERE EXISTING SUPPORTS DO NOT MEET CURRENT CODES, PROVIDE ADDITIONAL SUPPORTS AS REQUIRED.
7. PRIOR TO RUNNING NEW CIRCUITS TO EXISTING PANELS INDICATED, VERIFY EXISTING PANEL HAS ADEQUATE SPACE TO ACCOMMODATE NEW CIRCUITS. NOTIFY ENGINEER IF INDICATED EXISTING PANEL HAS INSUFFICIENT SPACE AND PROVIDE RECOMMENDATION FOR NEAREST PANEL WITH AVAILABLE SPACE THAT FEELS SIMILAR LOAD TYPES FOR APPROVAL.
8. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
 - I. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES. PROTECT ADJACENT AREAS OUTSIDE THE REMODEL AREA FROM DIRT AND DEBRIS.
 - J. CONTRACTOR SHALL CLEAN AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
 - K. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
 - L. CAP AND LABEL ALL EMPTY CONDUITS TO REMAIN.

ELECTRICAL SPECIFICATIONS

EXECUTION

A. GENERAL

1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.
2. ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED.
3. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTABLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO.
4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEXED FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED.

B. RACEWAYS

1. RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME.
2. RACEWAY ENDS SHALL BE REMOVED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.
3. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORT OF CONDUIT. PROVIDE THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. WALLS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.
4. PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTIONS.
5. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.

C. CONDUCTORS

1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:

PHASE A	240/120	208/120	480/277
PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	RED	ORANGE
PHASE C		BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GRAY
GROUND	GREEN	GREEN	GREEN

2. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.

D. JUNCTION AND PULL BOXES

PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.

E. GROUNDING

1. INST. A CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL BOXES TO THE RACEWAY SYSTEM. USE APPROVED BONDING MATERIALS.

F. BONDING

1. BOND ALL PIPING (GAS WATER, ETC) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC.

G. SEISMIC REQUIREMENTS

1. IF REQUIRED, RECESSED TYPE LIGHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND SUPPORT ON T-BAR GRID SYSTEM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF EACH SAFETY WIRE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6 INCHES LONGER THAN THE T-BAR GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF EACH LIGHTING FIXTURE.

H. CUTTING AND PATCHING

1. PERFORM DRILLING, CUTTING, AND PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING OR NEW, AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL SURROUNDING WORK. SUCH WORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE TRADE UNDER THE CONTRACTOR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE. COORDINATE WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING, DRILLING, OR CORING.

I. TESTING

1. DEMONSTRATE THAT ALL COMPONENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. TEST WIRING AND CONNECTORS FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH LIGHTING AND APPLIANCE PANEL WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, WALL SWITCHES CLOSED AND FIXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST EACH INDIVIDUAL POWER CIRCUIT WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION.
3. PROVIDE DETAILED DOCUMENTATION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE, WITH THE NAMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED AND WITNESSED EACH TEST.

ELECTRICAL SPECIFICATIONS

GENERAL

DESCRIPTION

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.

THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE SAME AS IF HEREIN WRITTEN OUT IN FULL. (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS THEREOF):

- a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL ELECTRICAL CODE"; PUB. NO. 72E "AUTOMATIC FIRE DETECTORS".
- b. UL (UNDERWRITERS LABORATORIES, INC.).
- c. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).
- d. UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.
- e. IBC (INTERNATIONAL BUILDING CODE)
- f. IFG (INTERNATIONAL FIRE CODE)
- g. IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
- h. IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND
- i. LOCAL BUILDING AUTHORITY AND CODES

NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.

PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.

1. EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.

WORKMANSHIP AND MATERIALS

1. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.
2. UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF ITS KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.
3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.
4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.
5. REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

MANUFACTURER'S RECOMMENDATIONS

1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.

GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR, SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP. THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.

DEFINITIONS

"PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.

"FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.

"INSTALL" MEANS TO PHYSICALLY INSTALL THE ITEMS IN PLACE.

"CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.


"OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.

SUBMITTALS

1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:
2. CATALOG CUTS
 - a. CIRCUIT BREAKERS (EACH SIZE AND TYPE)
 - b. SAFETY SWITCHES
 - c. MOTOR STARTERS
 - d. THERMAL SWITCHES
 - e. LIGHT FIXTURES
3. THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.

ELECTRICAL COMMUNICATIONS SYSTEMS RACEWAYS

1. PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERS, LATCHES, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED.
2. PROVIDE (1) 1" EMT CONDUIT FROM EACH TELEPHONE AND DATA DEVICE TO CABLE TRAY OR TELECOM RACK (WHICHEVER IS CLOSER). COMPLY WITH NEC, BICSI, AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY.




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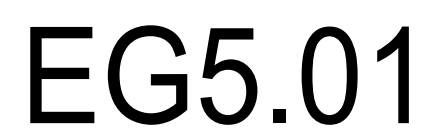
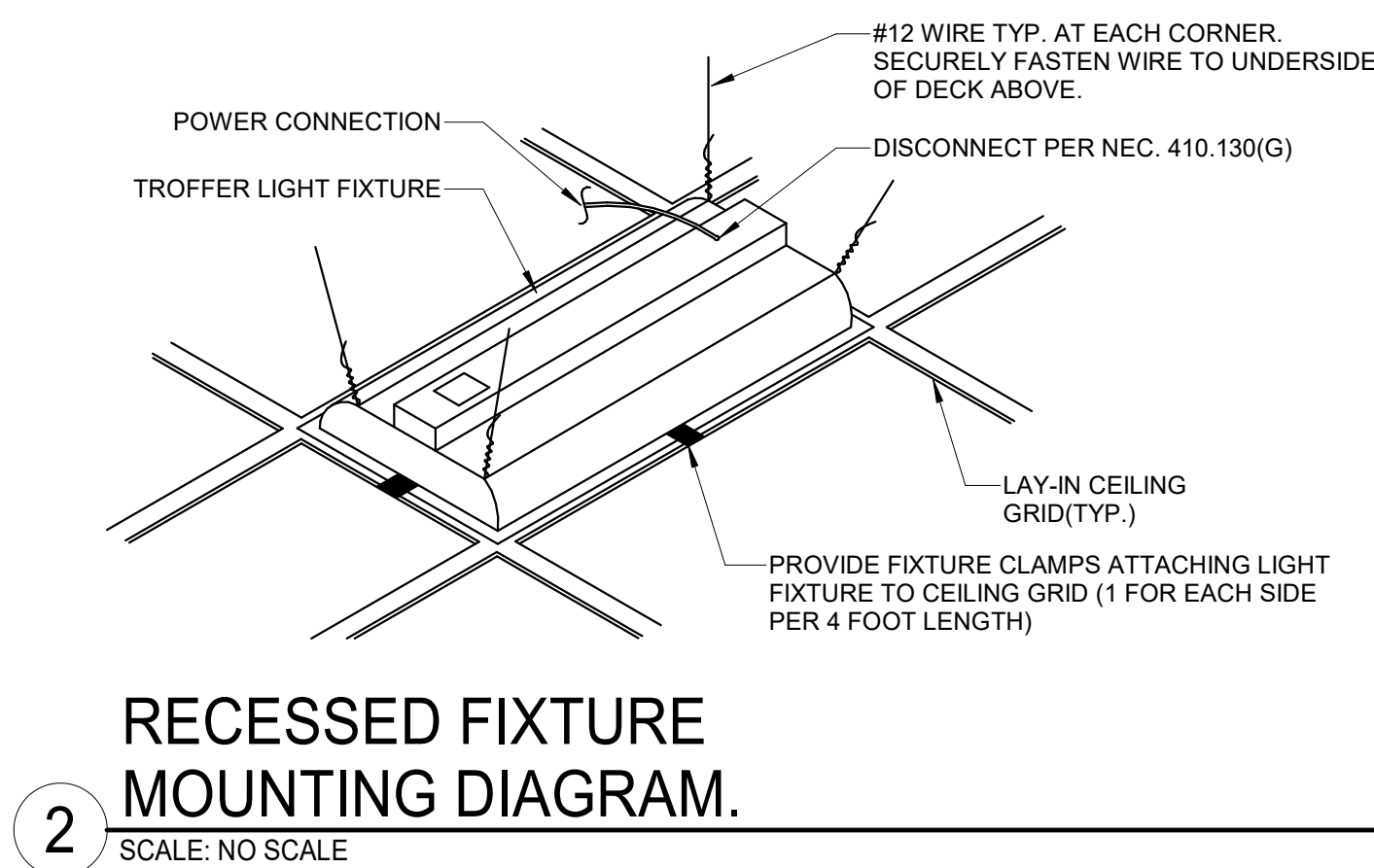
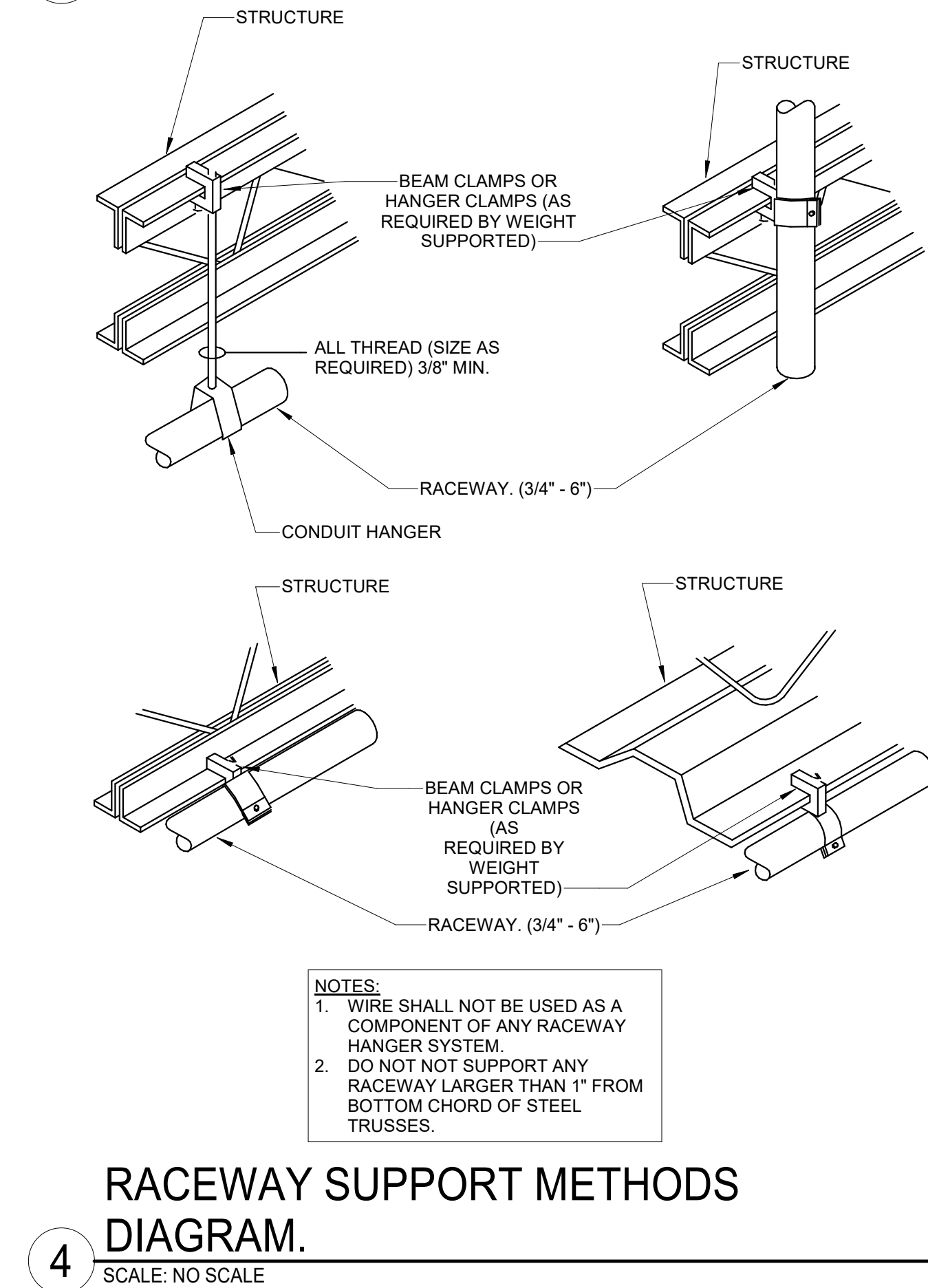
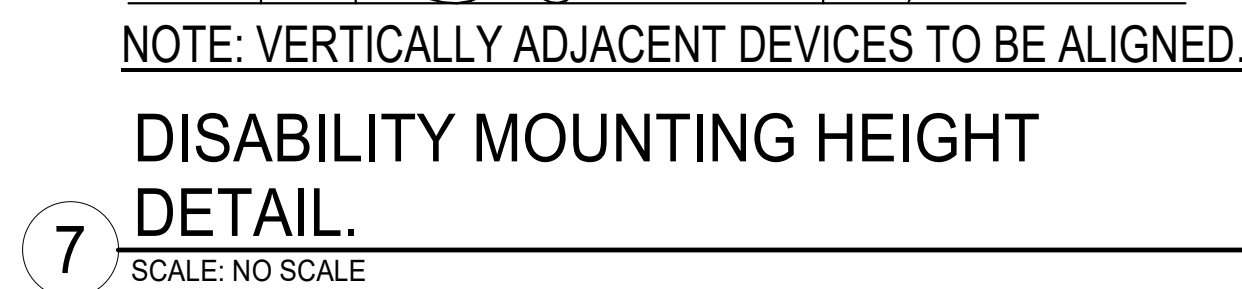
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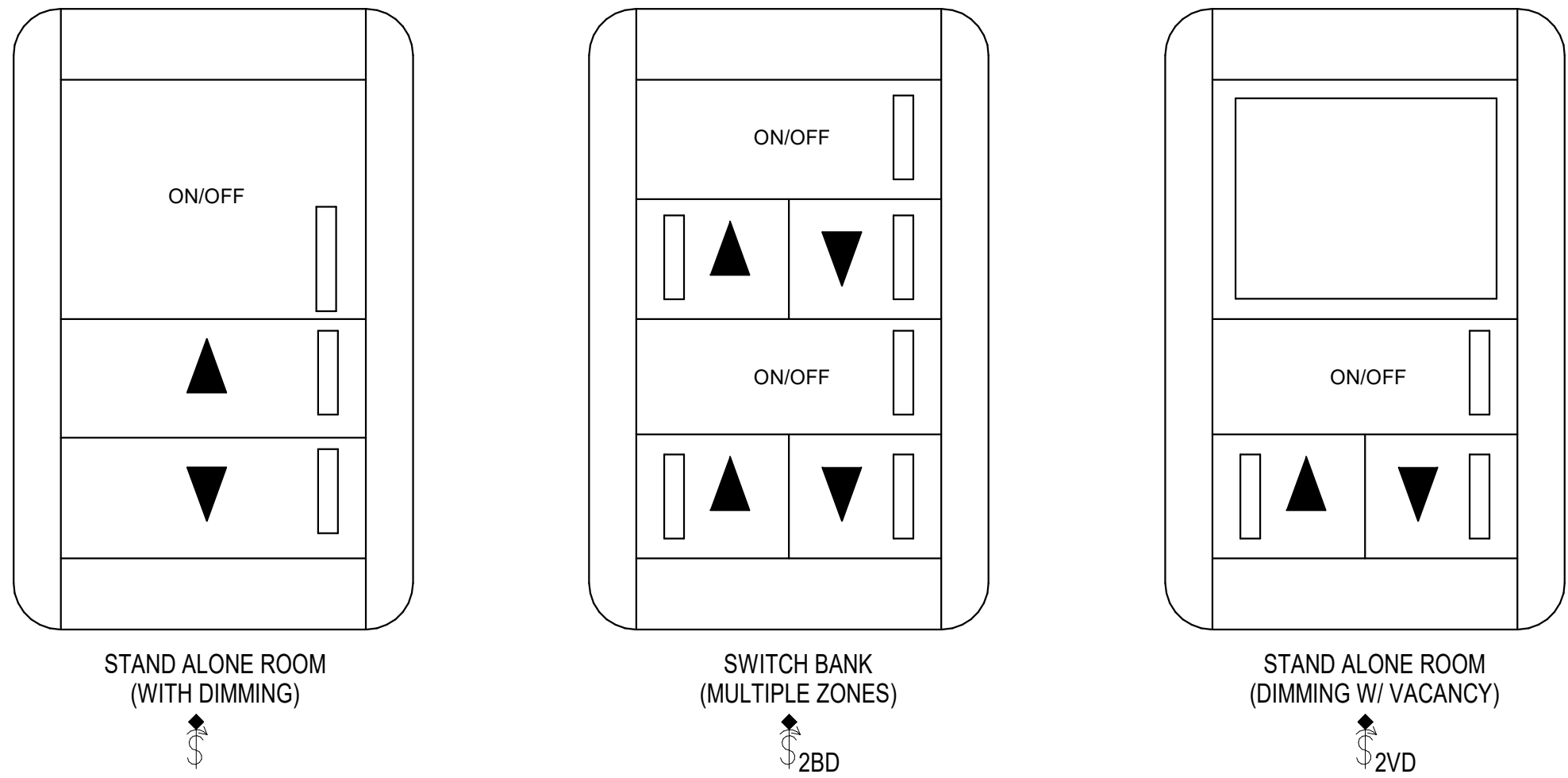


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PROJECT	LCSC PA LAB Sam Glenn Complex 500 4th St Lewis Clark State College
CLIENT	Lewis Clark State College

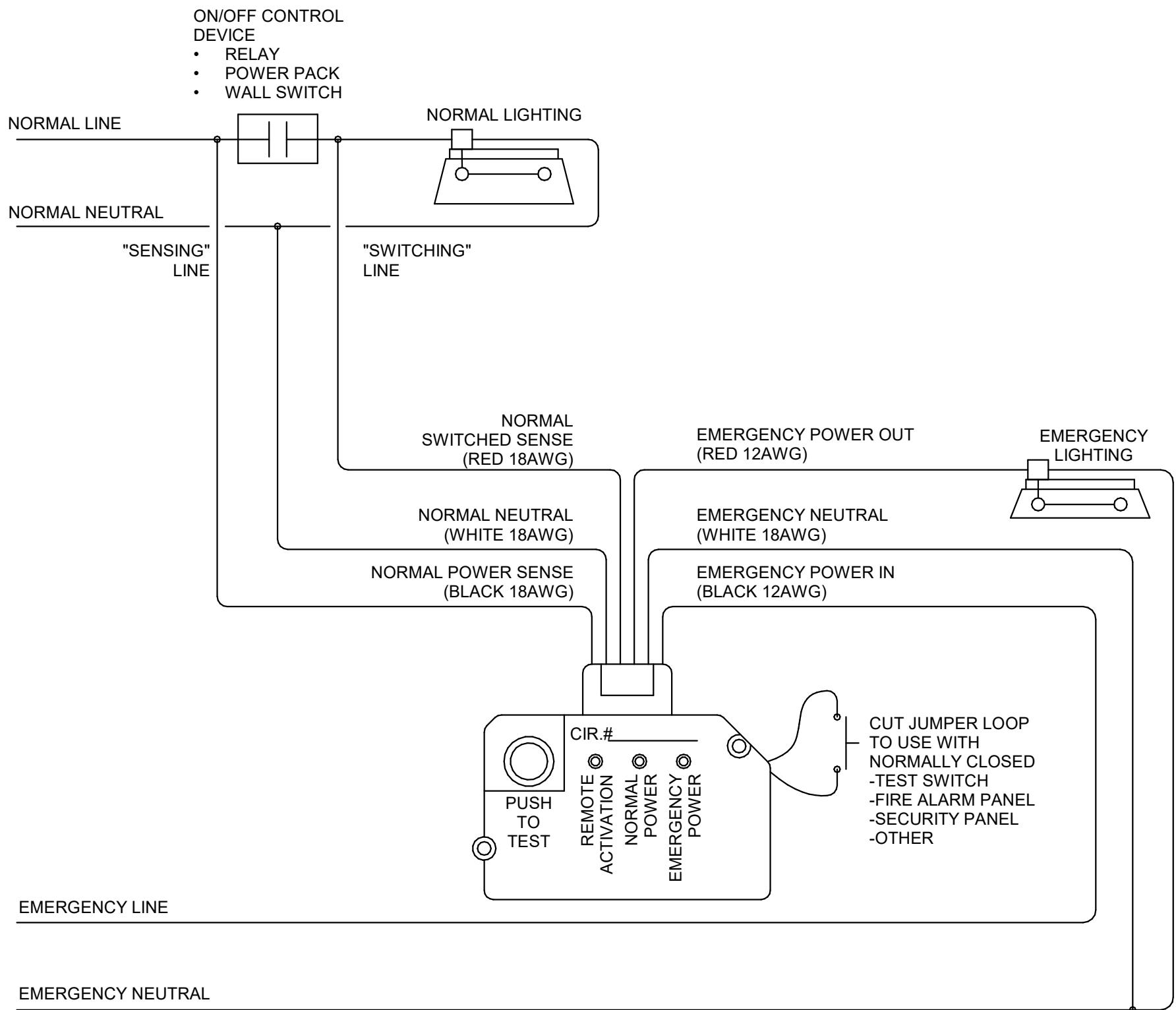
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EG0.02

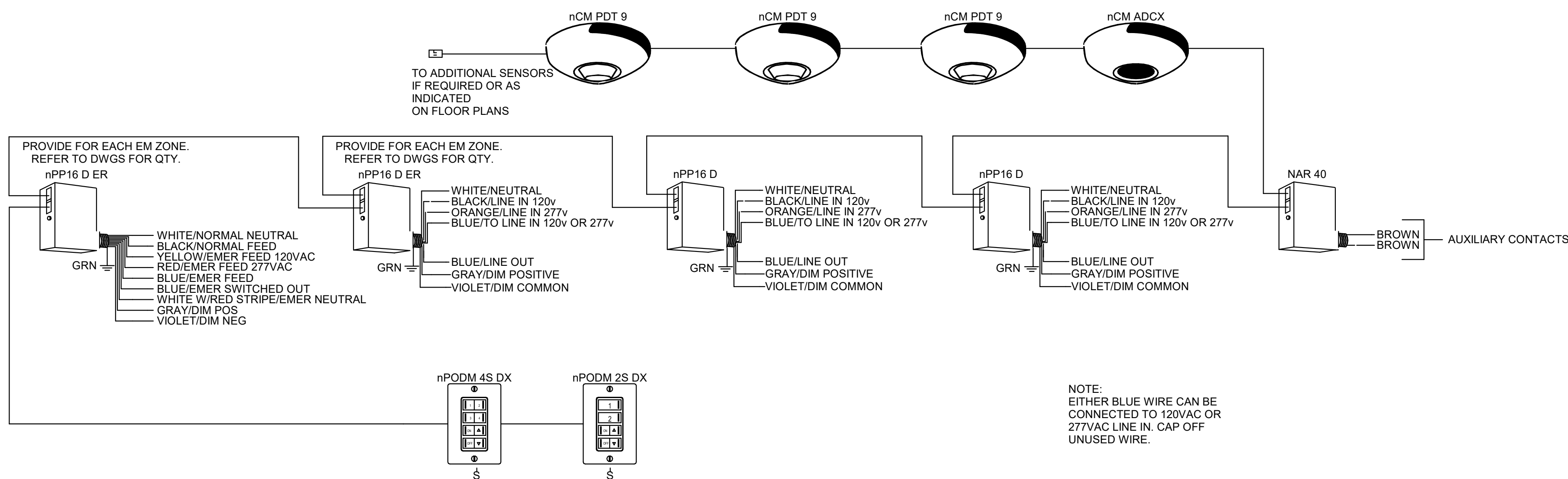




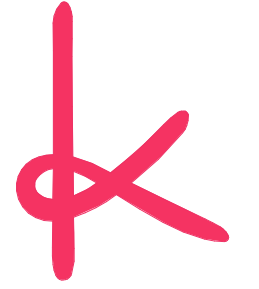
1 LOW VOLTAGE SWITCH DETAIL.
SCALE: NO SCALE



2 EMERGENCY LIGHTING CONTROL UNIT.
SCALE: NO SCALE



3 nLIGHT TYPICAL WIRING DIAGRAM.
SCALE: NO SCALE




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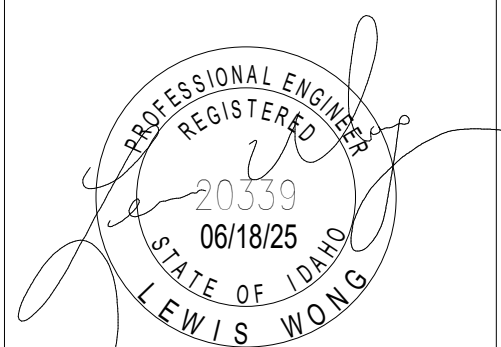


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ELECTRICAL DETAILS

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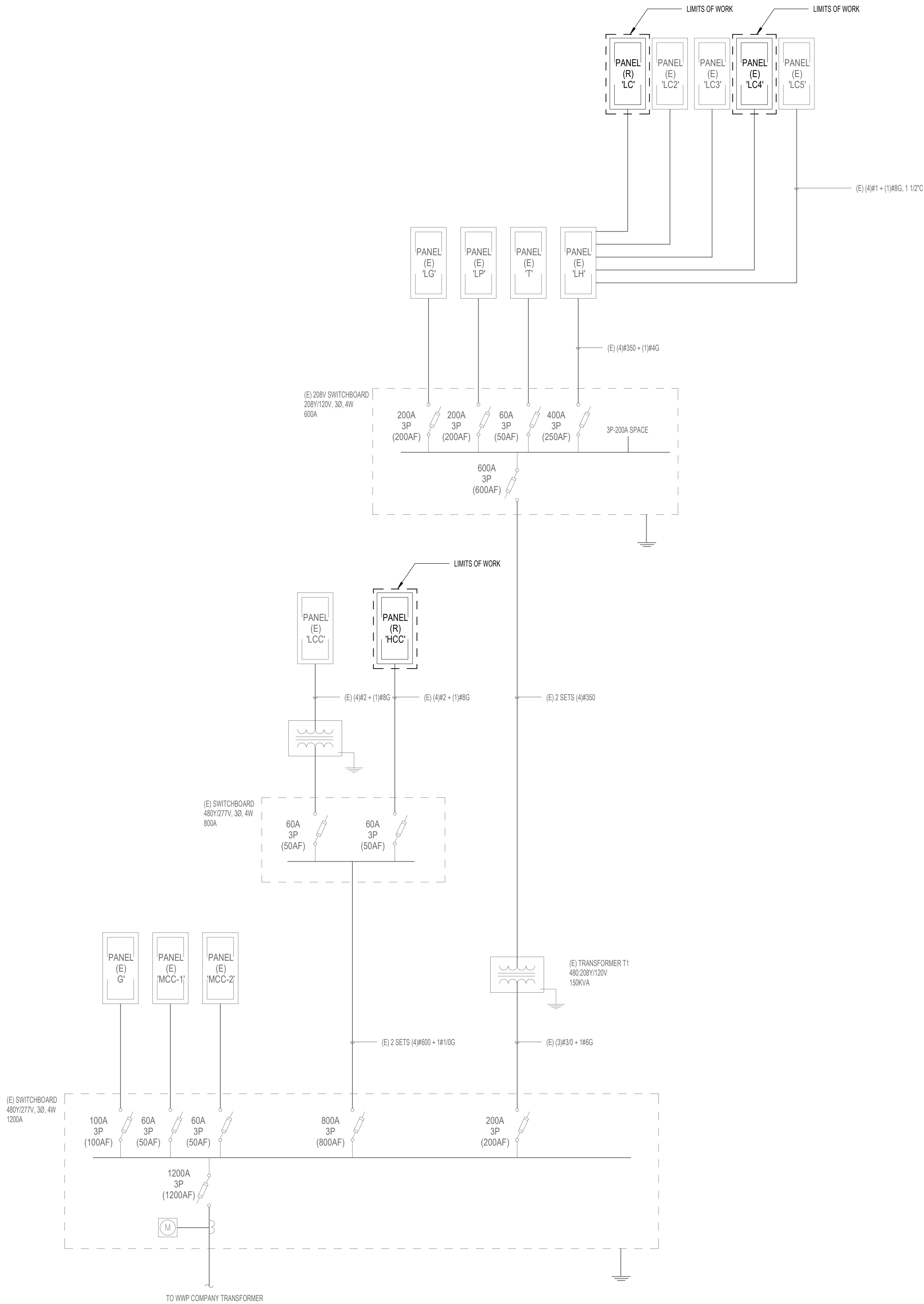
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Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128


EG5.02



1 ONLINE DIAGRAM
EG7.01 NOT TO SCALE

GENERAL NOTES

1. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT.
2. MAINTAIN EXISTING CIRCUIT INTEGRITY.
3. ONE LINE DIAGRAM IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES DURING WORK.




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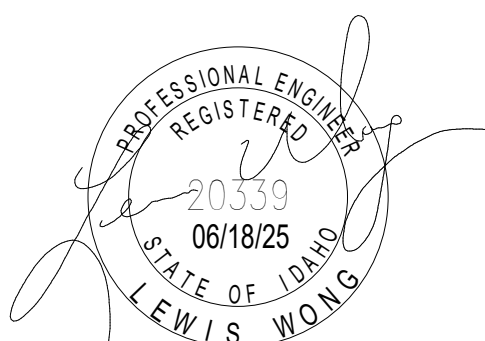


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ELECTRICAL DIAGRAMS

LCSC PA LAB

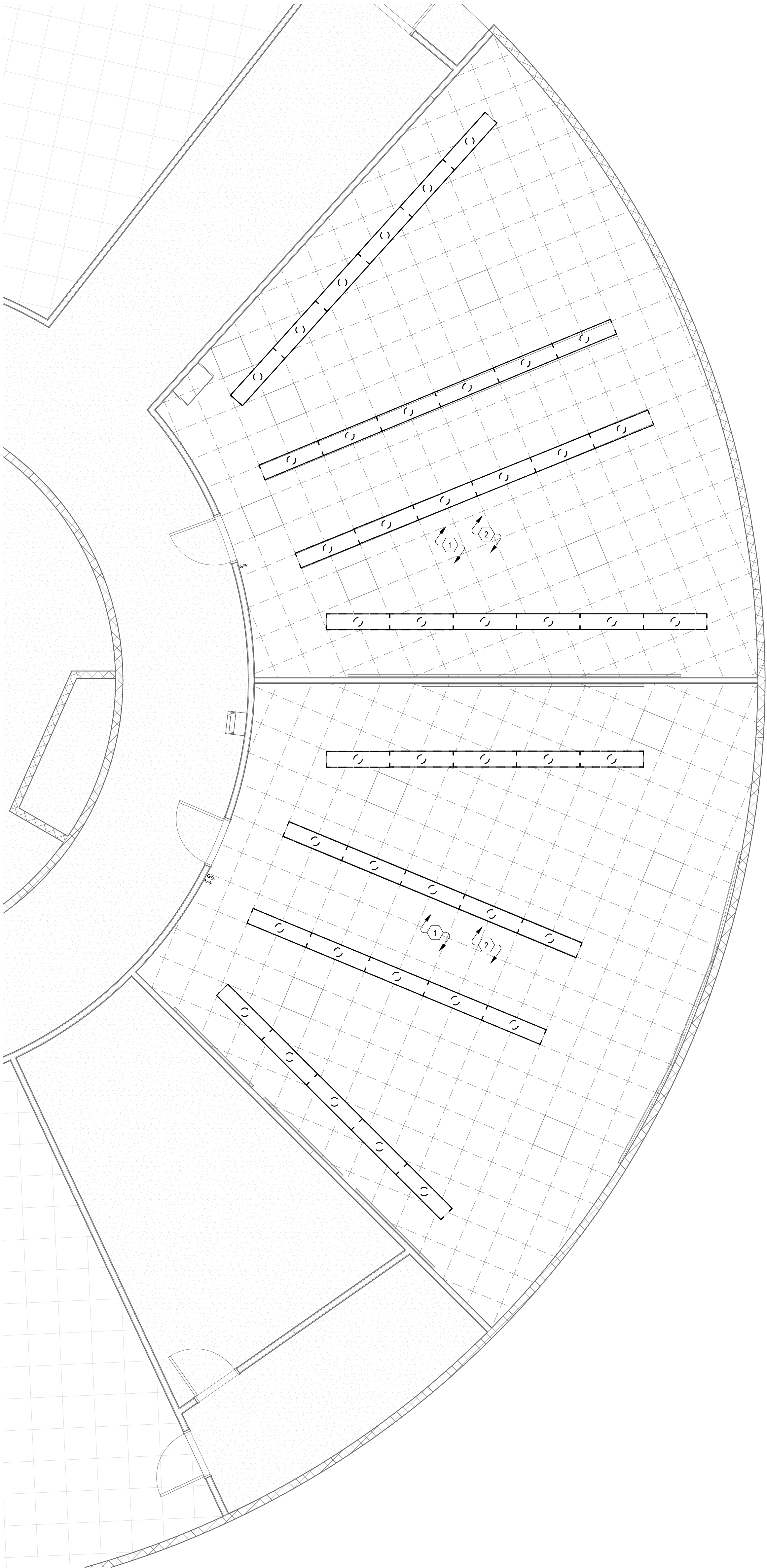
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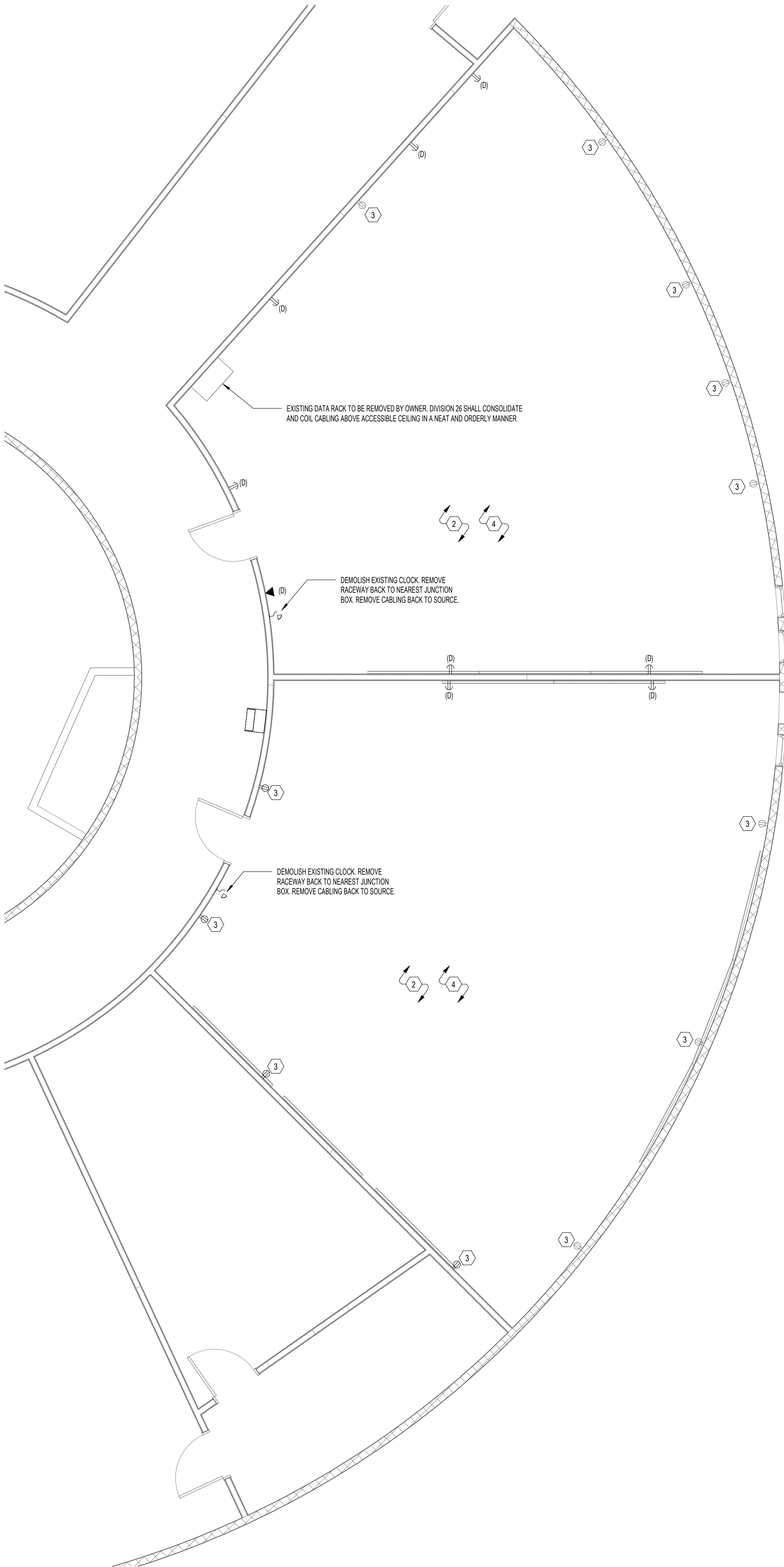
TITLE PROJECT CLIENT

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EG7.01



1
ED1.01
LEVEL 2 LIGHTING DEMOLITION PLAN
1/4" = 1'-0"



2
ED1.01
LEVEL 2 POWER DEMOLITION PLAN
1/4" = 1'-0"

- #KEYED NOTES
1.

EXISTING FIXTURES TO BE DEMOLISHED. PROTECT EXISTING CIRCUIT FOR NEW LIGHT FIXTURES.
2.

CONTRACTOR SHALL DEMOLISH ELECTRICAL DEVICES, LIGHTING CONTROL DEVICES, AND FIRE ALARM DEVICES IN THIS SPACE. CONTRACTOR MAY PROTECT EXISTING RACEWAYS AND CIRCUITS FOR USE WITH NEW DEVICES TO MEET NEW DESIGN INTENT UNLESS NOTED OTHERWISE.
3.

RECEPTACLE EXISTING TO REMAIN. REPLACE TRIM AND RECEPTACLE TO MATCH NEW DEVICES/CAMPUS STANDARD.
4.

DEMOLISH EXISTING DATA SURFACE MOUNTED RACEWAY AND DATA DEVICES. PRESERVE CABLING FOR NEW DEVICES.

- GENERAL NOTES
1.

EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
2.

ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DERRIS AT ALL TIMES.
3.

CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
4.


ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
5.

DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
6.

CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
7.

CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
8.

DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.




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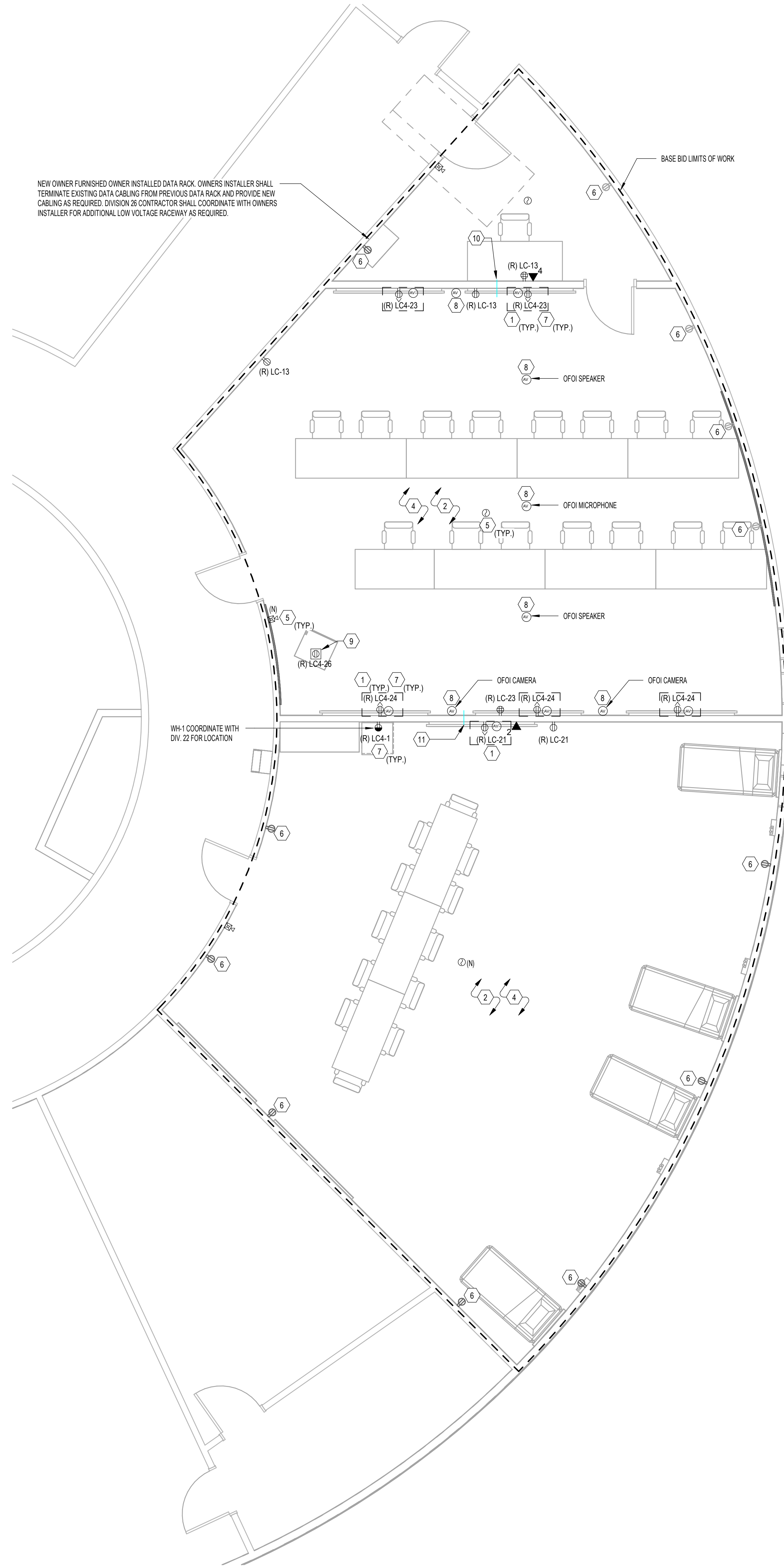
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ISSUE DATE: 06.18.2025		
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<div><div>PROFESSIONAL ENGINEER REGISTERED 20339 06/18/25 STATE OF IDAHO LEWIS WONG</div></div>		
LEVEL 2 ELECTRICAL DEMOLITION PLANS		
TITLE	PROJECT	CLIENT
LCSC PA LAB	Sam Glenn Complex 500 4th St Lewiston, ID 83501	Lewis Clark State College
JOB NO: 240128		
ED1.01		

12/23/2025 11:58:15 AM



1
E1.01
LEVEL 2 LIGHTING PLAN
1/4" = 1'-0"



2
E1.02
LEVEL 2 POWER PLAN
1/4" = 1'-0"

KEYED NOTES

- SEE E03.01 FOR TV DISPLAY REQUIREMENTS.
- CONTRACTOR SHALL UTILIZE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. PROVIDE NEW CIRCUITS TO NEAREST PANEL AS REQUIRED TO MEET DESIGN INTENT. WHERE NEW CIRCUITS ARE REQUIRED, EC SHALL PROVIDE BREAKERS THAT MATCH THE EXISTING PANEL AIC RATING.
- 1 FOR 1 REPLACEMENT OF EXISTING LIGHT FIXTURES. UTILIZE EXISTING LIGHTING CIRCUIT ON PANEL HOC FOR NEW LIGHT FIXTURES.
- CONTRACTOR SHALL UTILIZE ABOVE THE CEILING SPACE AS MUCH AS POSSIBLE TO REDUCE SURFACE CONDUIT RUNS. EXISTING DEVICES THAT MATCH THE DESIGN INTENT MAY BE REUSED BUT SHALL BE REPLACED WITH NEW TO MATCH NEW DEVICES IN SPACE.
- FURNISH AND INSTALL ADDRESSABLE FIRE ALARM DEVICE AS SHOWN. TIE TO EXISTING FIRE ALARM INITIATION LOOP.
- RECEPTACLE EXISTING TO REMAIN. REPLACE TRIM AND RECEPTACLE TO MATCH NEW DEVICES/CAMPUS STANDARD.
- CIRCUIT TO EXISTING PANEL LCA IN ROOM 124 ON THE LEVEL BELOW.
- PROVIDE JUNCTION BOX AND 1 1/2" CONDUIT ONLY TO ACCESSIBLE CEILING SPACE FOR ANY DEVICE REQUIRING 2 AV CONNECTIONS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 8" POKE THROUGH FLOOR BOX LEGRAND BATC208K. COORDINATE FINAL LOCATION WITH OWNER.
A. (1) COMPARTMENT POWER - DUPLEX RECEPTACLE
B. (1) COMPARTMENT DATA JACK - 8607A
C. (1) COMPARTMENT AV (4 AV DEVICE CONNECTIONS) - 88A4P
D. (2) COMPARTMENTS SPARE (BLANKS)
- 4" CONDUIT SLEEVE FOR DATA AND AV.
- 2" CONDUIT SLEEVE FOR DATA AND AV.

GENERAL NOTES

- POWER**
- EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
 - ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
 - CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS.
 - ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT IN FINISHED SPACES SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS UNLESS OTHERWISE INDICATED ON THE PLANS.
 - BRANCH CIRCUITS SHALL NOT EXCEED 7% VOLTAGE DROP.
 - PROVIDE UPDATED TYPED CIRCUIT DIRECTORY WITH UNIQUE CIRCUIT DESCRIPTIONS PER NEC 408.4 FOR PANELS AFFECTED BY THIS PROJECT.
 - WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
 - CIRCUIT NUMBERS AT DEVICES CORRESPOND TO BREAKERS. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
 - DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.

- LIGHTING**
- CIRCUIT EXIT AND EMERGENCY LIGHTS TO THE SAME CIRCUIT FEEDING THE LIGHTING IN THE AREA. RUN AN UNSWITCHED HOT CONDUCTOR UPS/REAM OF THE RELAY, POWER PACK, OR SWITCH TO EXIT AND EMERGENCY LIGHT FIXTURES.
 - AREAS SHOWING OCCUPANCY/VACANCY SENSORS IDENTIFY SPACES WHERE THE LIGHTS IN THE SPACE ARE TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS AND DO NOT NECESSARILY INDICATE EXACT QUANTITIES AND PLACEMENT. THE CONTRACTOR IS TO COORDINATE WITH THE LOCAL MANUFACTURERS REPRESENTATIVE FOR EXACT LOCATIONS AND QUANTITIES FOR A 90% MINIMUM COVERAGE OF THE SPACE. PROVIDE APPROPRIATE TYPE TO MATCH CEILING HEIGHT APPLICATION. PROVIDE RELAYS, POWER PACKS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL SENSORS (S) A MINIMUM OF 5 FEET FROM OUTFUSERS. ALL OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY.
 - LIGHTING CALLOUTS ARE TYPICAL FOR OTHER LIGHTS IN THE ROOM OF THE SAME LUMINAIRE SYMBOL, UNLESS INDICATED OTHERWISE.
 - EMERGENCY CESSUS LIGHTS SHALL BE WIRED SUCH THAT WHEN COMMERCIAL POWER FAILS, EACH LIGHT WILL DELIVER A MINIMUM OF 160 LUMENS OR ITS MAXIMUM LUMEN OUTPUT REGARDLESS OF THE POSITION OF THE CONTROL DEVICE. RUN AN UNSWITCHED HOT CONDUCTOR AHEAD OF THE SWITCHING DEVICE TO THE BATTERY PACK/GENERATOR TRANSFER DEVICE FROM THE SAME CIRCUIT AS NORMAL FIXTURE OPERATION. LIGHTS TO BE SWITCHED AS SHOWN DURING NORMAL OPERATION.
 - PROVIDE DIMMING WIRING FOR SPACES WHERE DIMMERS ARE SHOWN TO CONTROL LIGHTING FOR THAT SPACE.

- FIRE ALARM**
- CONTRACTOR TO MAKE PROVISIONS TO MEET THE INTELLIGIBILITY REQUIREMENTS OF NFPA 72 AND TEST AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - PROVIDE A COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM APPROVED BY THE AUTHORITY HAVING JURISDICTION. DEVICES SHOWN INDICATE DESIGN INTENT FOR THE SPACE. CONTRACTOR IS RESPONSIBLE FOR A CODE COMPLIANT SYSTEM FOR THE SPACE WHETHER OR NOT EXACT QUANTITY OF DEVICES ARE SHOWN OR NOT.
 - THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
 - INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
 - POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
 - POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS. WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY. WHEN UTILIZING SHIELDED CABLE, THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TIE BACK AT ESD.
 - ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
 - SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
 - LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL OFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
 - PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
 - VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
 - UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
 - PROVIDE FIRE ALARM DEVICES COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL.



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PM: Nikko Bowers

ISSUE DATE: 06.18.2025

REV DATE COMMENT



LEVEL 2 ELECTRICAL PLANS

LCSC PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

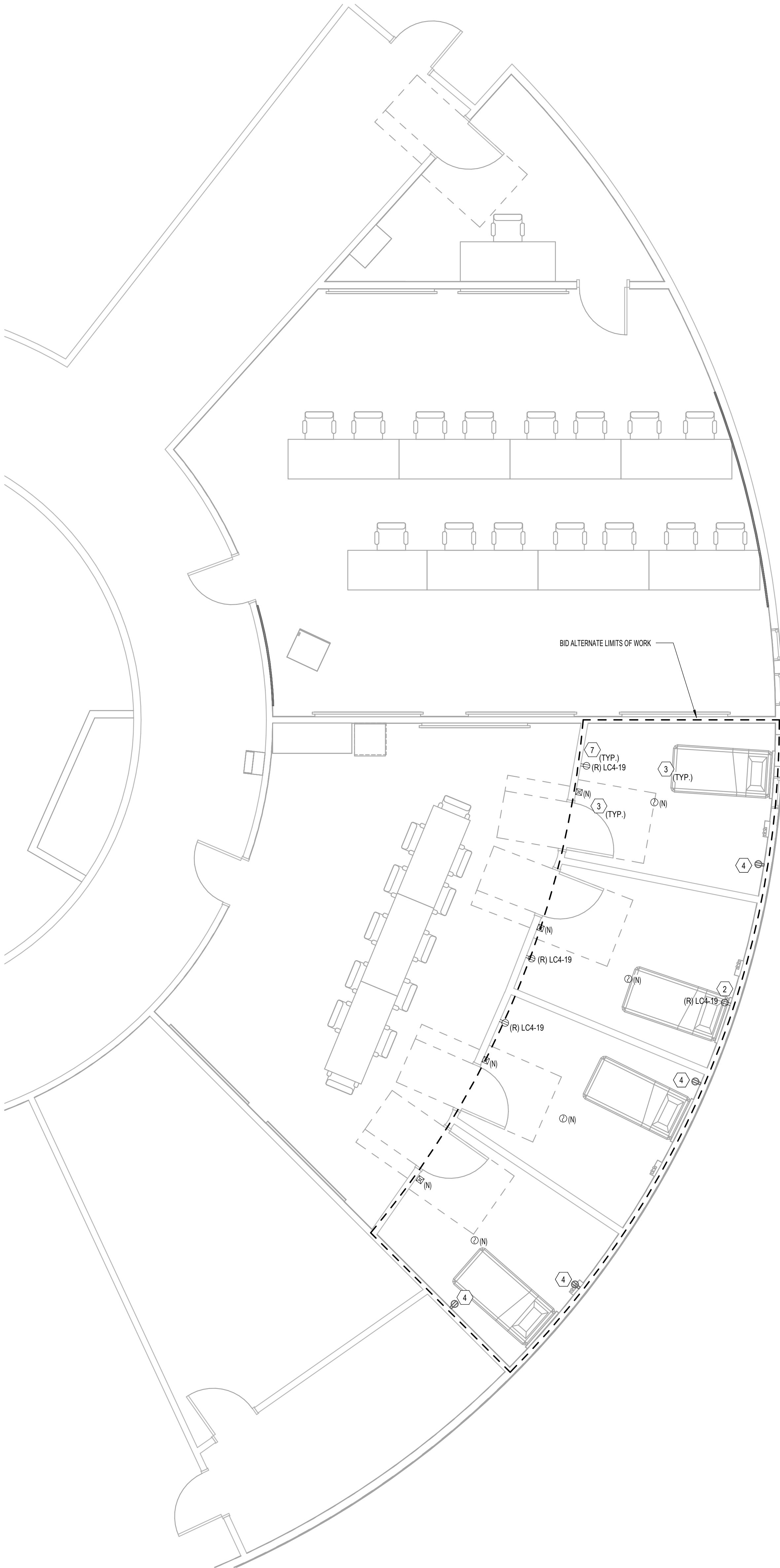
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JOB NO: 240128

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1 ALTERNATE BID LEVEL 2 LIGHTING PLAN
1/4" = 1'-0"



2 ALTERNATE BID LEVEL 2 POWER PLAN
1/4" = 1'-0"

KEYED NOTES

- UTILIZE EXISTING LIGHTING CIRCUIT ON PANEL 400 FOR NEW LIGHT FIXTURES.
- CONTRACTOR SHALL UTILIZE ABOVE THE CEILING SPACE AS MUCH AS POSSIBLE TO REDUCE SURFACE CONDUIT RUNS. EXISTING DEVICES THAT MATCH THE DESIGN INTENT MAY BE REPLACED BUT SHALL BE REPLACED WITH NEW TO MATCH NEW DEVICES IN SPACE.
- FURNISH AND INSTALL ADDRESSABLE FIRE ALARM DEVICE AS SHOWN. TIE TO EXISTING FIRE ALARM INITIATION LOOP.
- RECEPTACLE EXISTING TO REMAIN. REPLACE TRIM AND RECEPTACLE TO MATCH NEW DEVICES/CAMPUS STANDARD.

GENERAL NOTES

POWER

- EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS.
- ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT IN FINISHED SPACES SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS UNLESS OTHERWISE INDICATED ON THE PLANS.
- BRANCH CIRCUITS SHALL NOT EXCEED 75 VOLTAGE DROP.
- PROVIDE UPDATED TYPED CIRCUIT DIRECTORY WITH UNIQUE CIRCUIT DESCRIPTIONS PER NEC 408.4 FOR PANELS AFFECTED BY THIS PROJECT.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO BREAKERS. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.

LIGHTING

- CIRCUIT EXIT AND EMERGENCY LIGHTS TO THE SAME CIRCUIT FEEDING THE LIGHTING IN THE AREA. RUN AN UNSWITCHED HOT CONDUCTOR UPSTREAM OF THE RELAY, POWER PACK, OR SWITCH TO EXIT AND EMERGENCY LIGHT FIXTURES.
- AREAS SHOWING OCCUPANCY/VACANCY SENSORS IDENTIFY SPACES WHERE THE LIGHTS IN THE SPACE ARE TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS AND DO NOT NECESSARILY INDICATE EXACT QUANTITIES AND PLACEMENT. THE CONTRACTOR IS TO COORDINATE WITH THE LOCAL MANUFACTURERS REPRESENTATIVE FOR EXACT LOCATIONS AND QUANTITIES FOR A 90% MINIMUM COVERAGE OF THE SPACE. PROVIDE APPROPRIATE TYPE TO MATCH CEILING HEIGHT APPLICATION. PROVIDE RELAYS, POWER PACKS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL SENSORS A MINIMUM OF 5 FEET FROM DIFFUSERS. ALL OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY.
- LIGHTING CALLOUTS ARE TYPICAL FOR OTHER LIGHTS IN THE ROOM OF THE SAME LUMINAIRE SYMBOL, UNLESS INDICATED OTHERWISE.
- EMERGENCY EGRESS LIGHTS SHALL BE WIRED SUCH THAT WHEN COMMERCIAL POWER FAILS, EACH LIGHT WILL DELIVER A MINIMUM OF 1400 LUMENS OR ITS MAXIMUM LUMEN OUTPUT REGARDLESS OF THE POSITION OF THE CONTROL DEVICE. RUN AN UNSWITCHED HOT CONDUCTOR AHEAD OF THE SWITCHING DEVICES TO THE BATTERY PACK/GENERATOR TRANSFER DEVICE FROM THE SAME CIRCUIT AS NORMAL FUTURE OPERATION. LIGHTS TO BE SWITCHED AS SHOWN DURING NORMAL OPERATION.
- PROVIDE DIMMING WIRING FOR SPACES WHERE DIMMERS ARE SHOWN TO CONTROL LIGHTING FOR THAT SPACE.

FIRE ALARM

- CONTRACTOR TO MAKE PROVISIONS TO MEET THE INTELLIGIBILITY REQUIREMENTS OF NFPA 72 AND TEST AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE A COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM APPROVED BY THE AUTHORITY HAVING JURISDICTION. DEVICES SHOWN INDICATE DESIGN INTENT FOR THE SPACE. CONTRACTOR IS RESPONSIBLE FOR A CODE COMPLIANT SYSTEM FOR THE SPACE WHETHER OR NOT EXACT QUANTITY OF DEVICES ARE SHOWN OR NOT.
- THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK-OUTS AND/OR SEPARATE CONDUITS. WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY. WHEN UTILIZING SHIELDED CABLE, THE SHIELDS SHOULD THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- VERIFY ALL FIELD-SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
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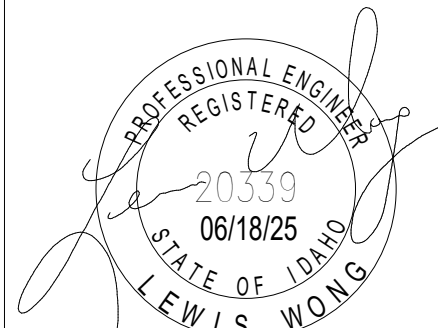


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ALTERNATE BID LEVEL 2 ELECTRICAL PLANS

LCSC PA LAB
Sam Glenn Complex 500 4th St
Lewisston, ID 83501

Lewis Clark State College

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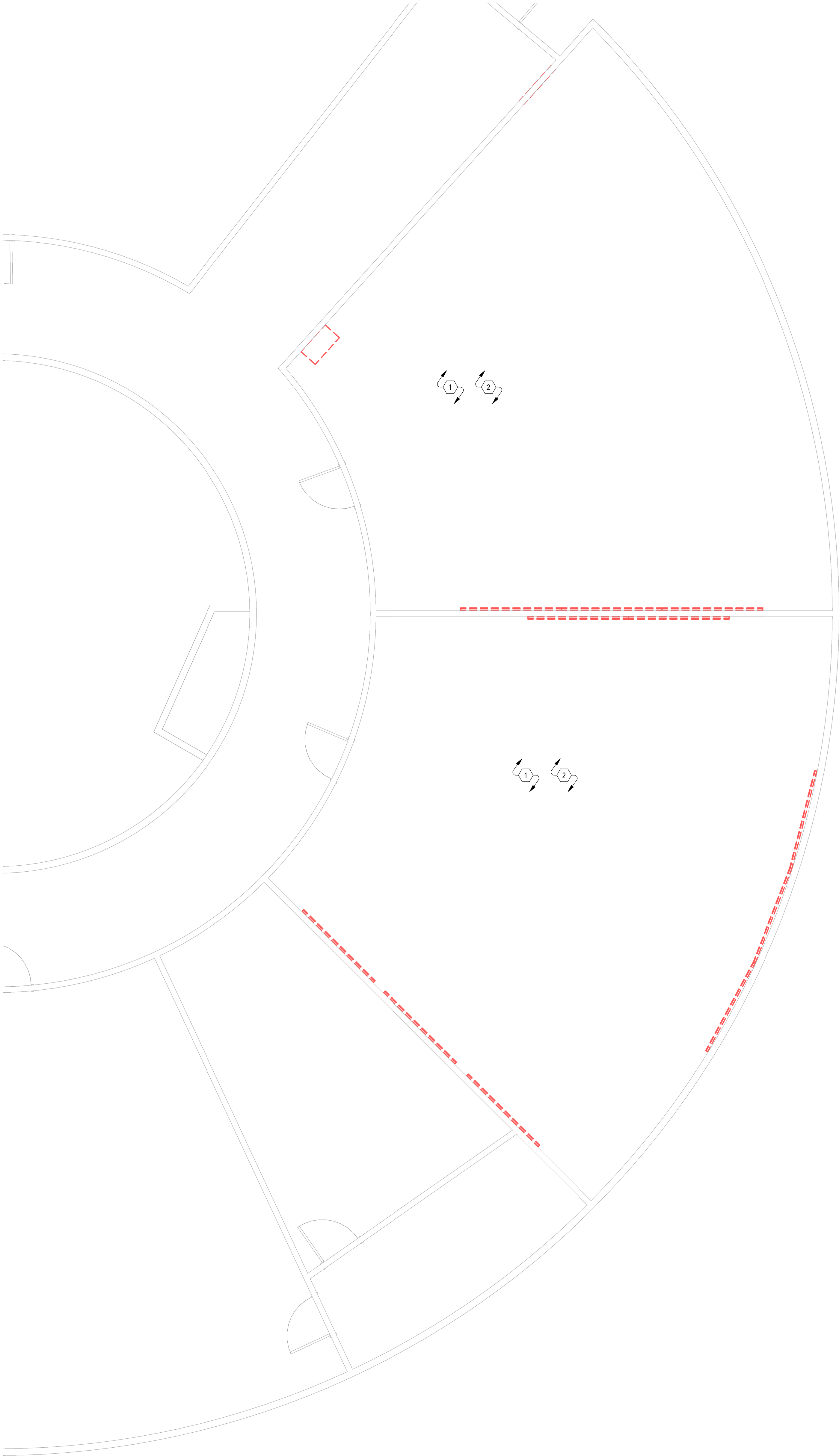
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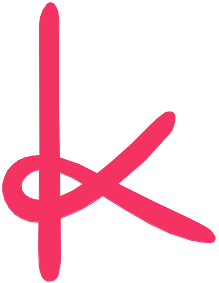
LEVEL 2 FIRE PROTECTION DEMO PLAN

1/4" = 1'-0"



KEYNOTES

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- 2 EXISTING HEADS TO REMAIN IN PLACE AS MUCH AS POSSIBLE.



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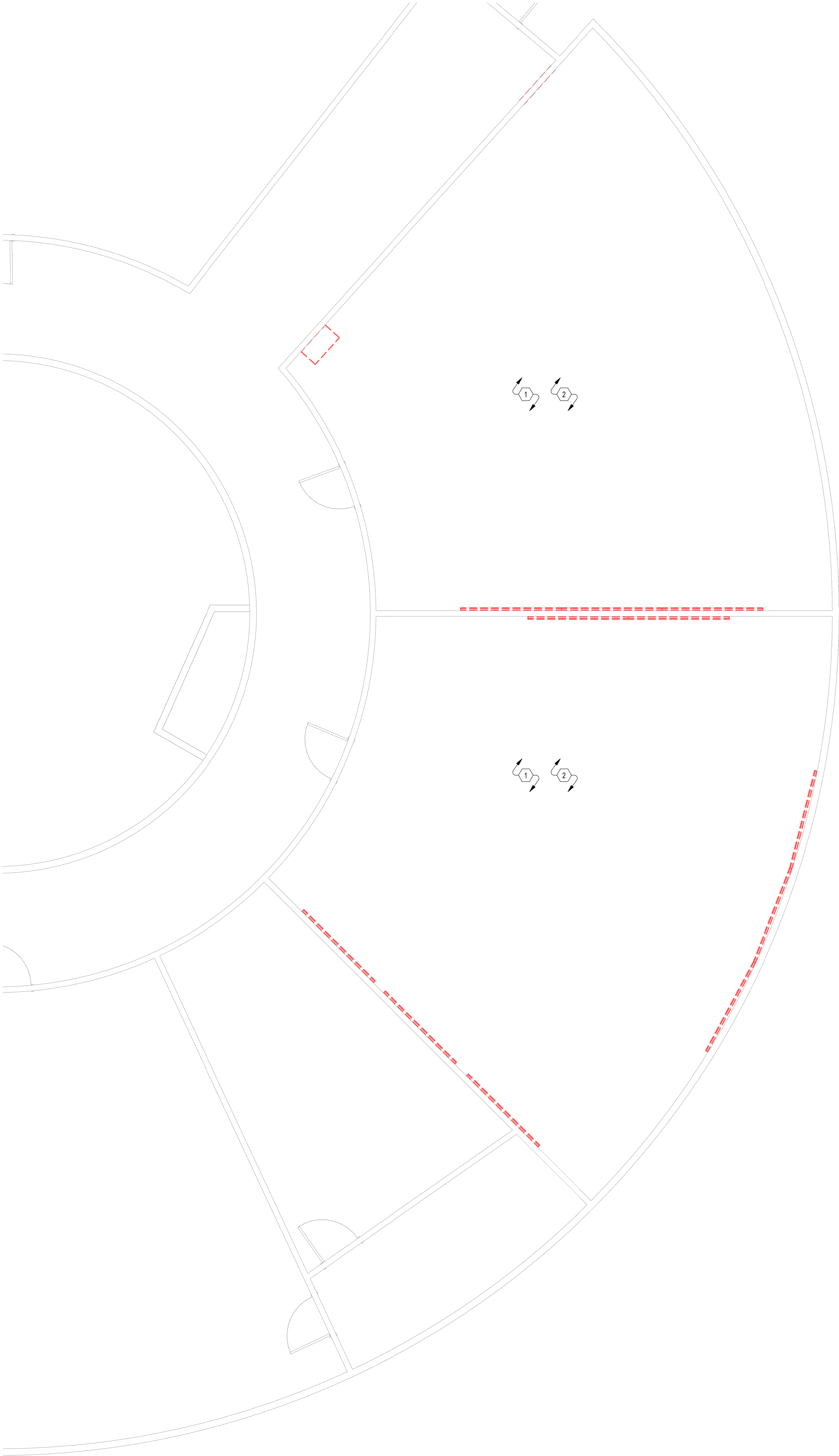
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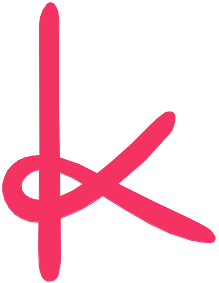
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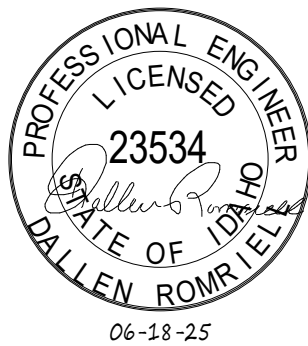
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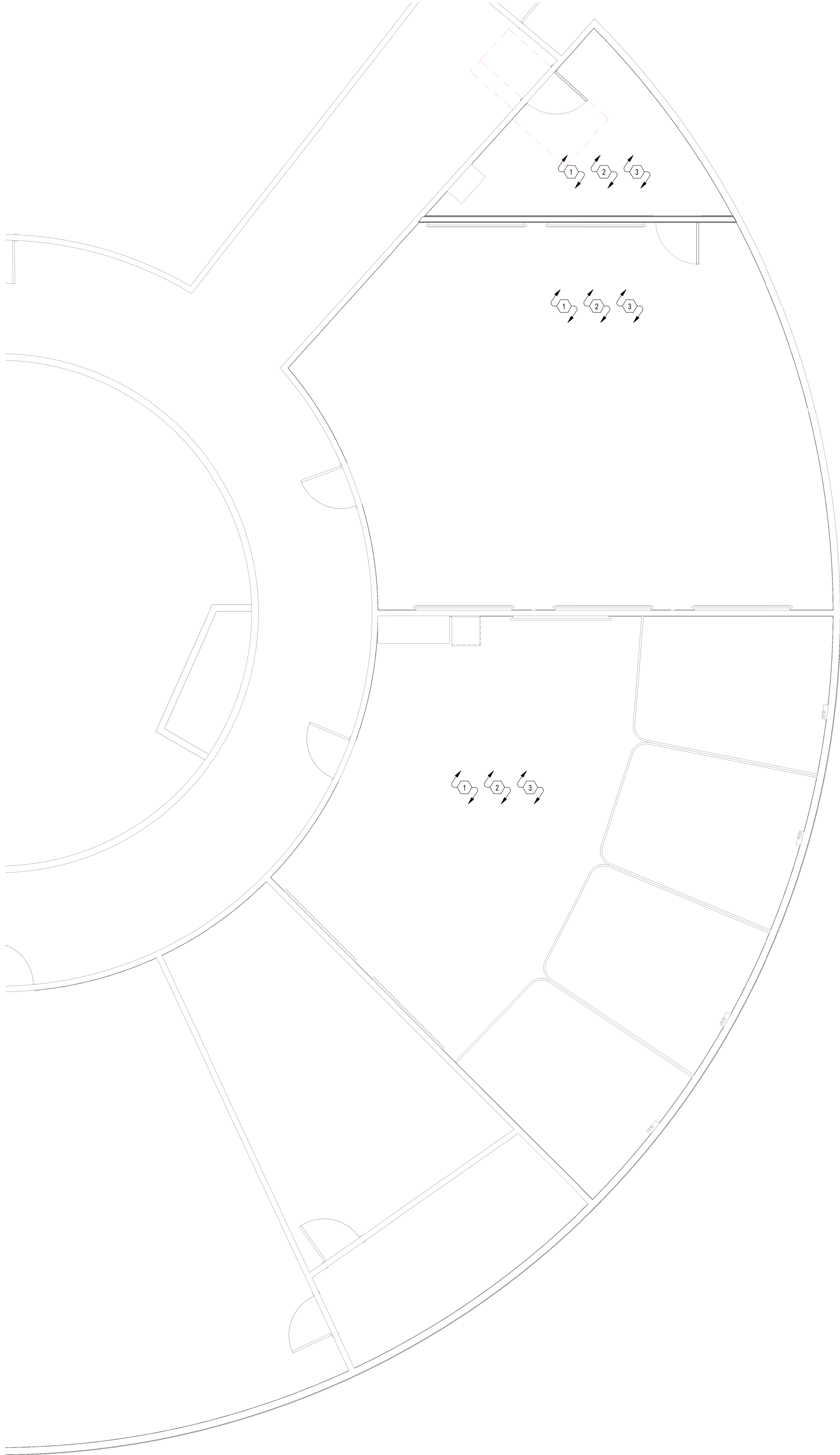
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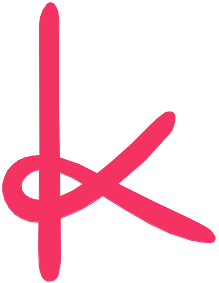


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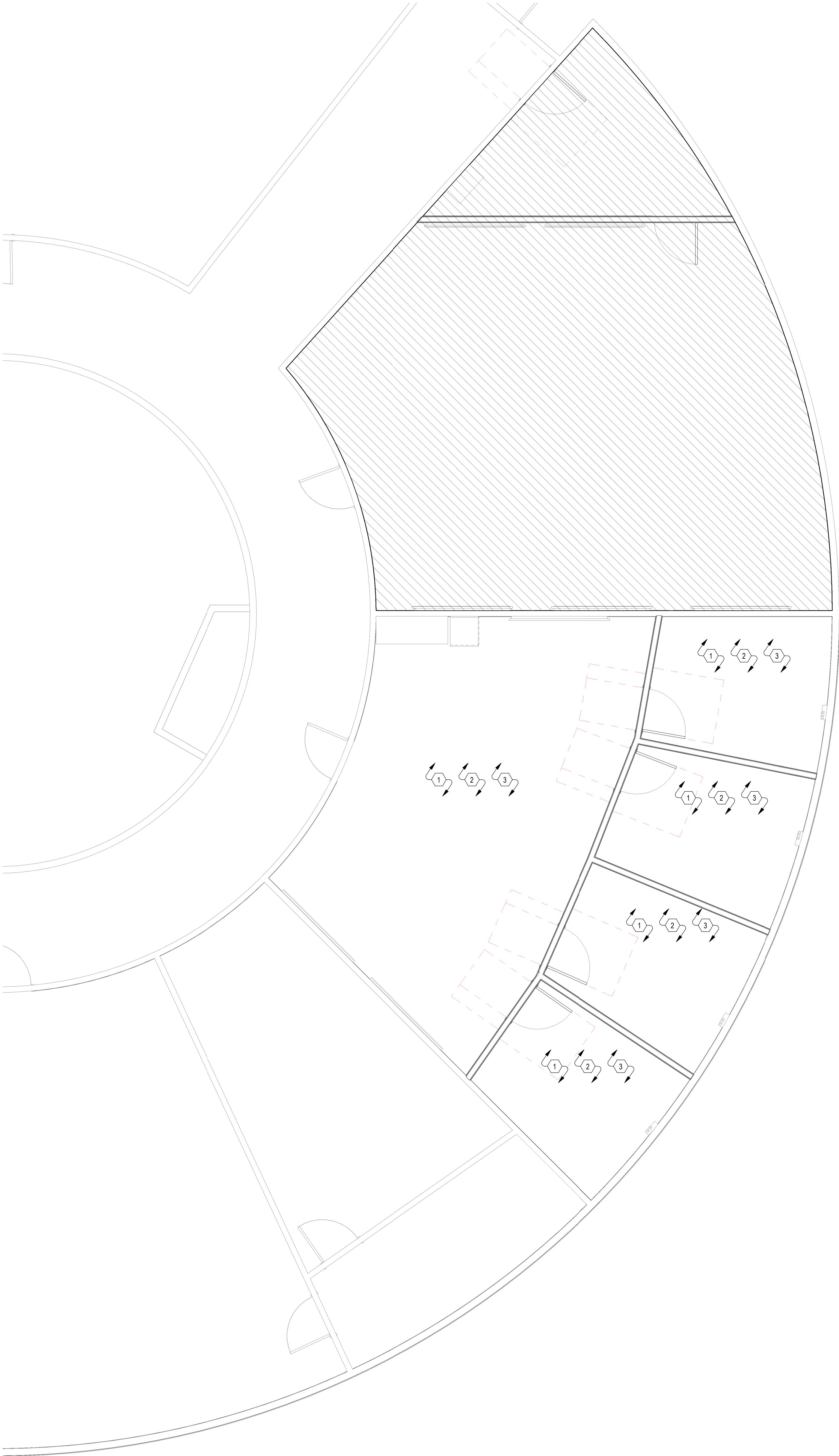
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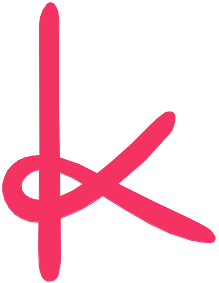
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