

PROJECT:

LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

CLIENT:

TWIN FALLS SCHOOL DISTRICT

201 MAIN AVE.
 TWIN FALLS, IDAHO 83301

HUMMEL
 ARCHITECTS

205 N. 10th Street Suite 300 Boise, Idaho 83702 208.343.7523 hummelarch.com
 482 Constitution Way, Suite 111 Idaho Falls, ID 83402 208.343.7523

CONSULTANTS:

STRUCTURAL ENGINEER
 KPFF

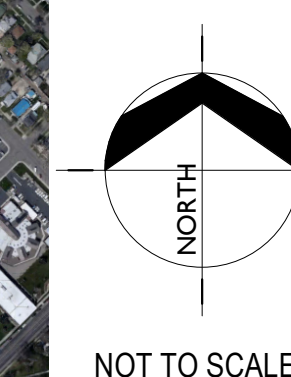
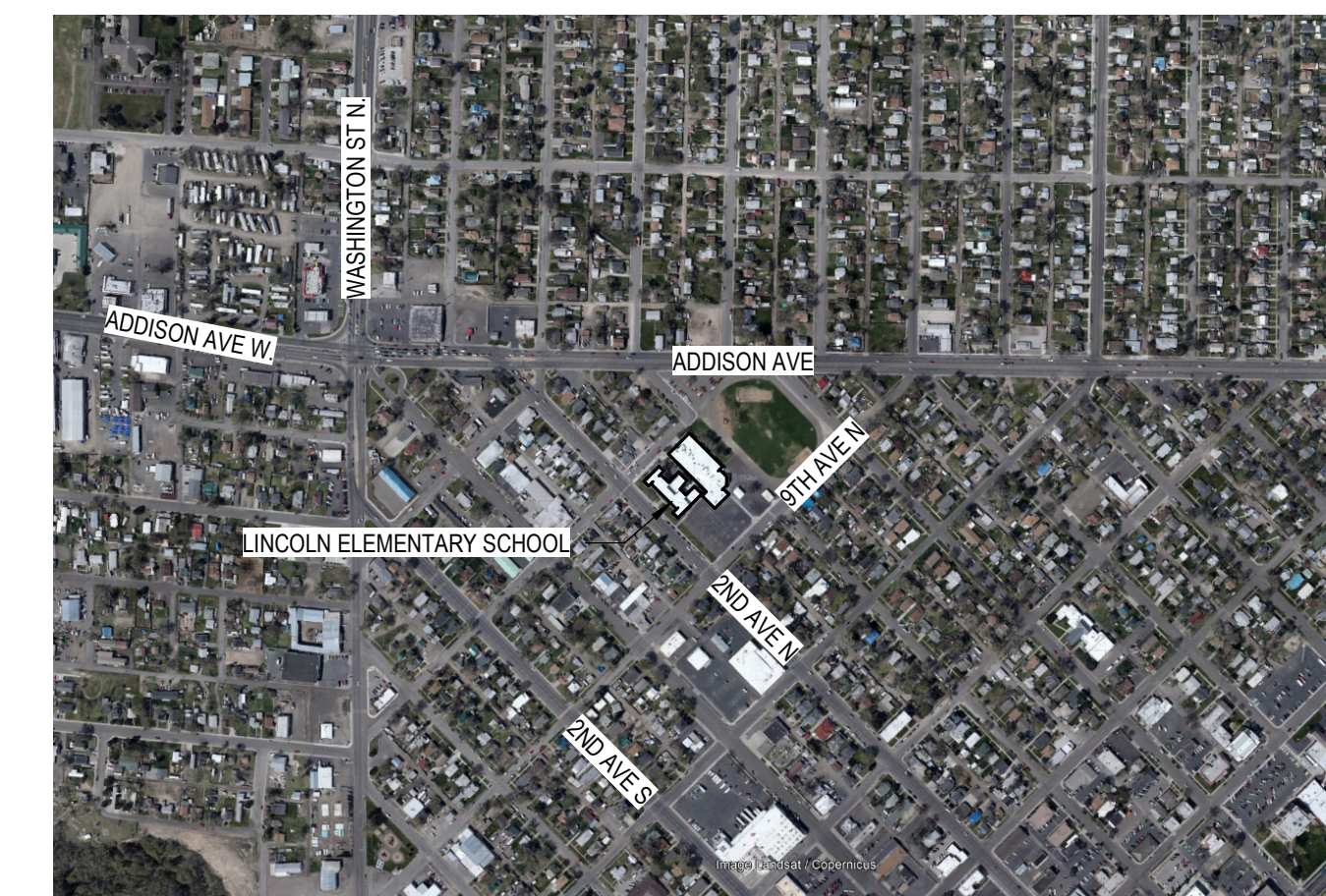
MECHANICAL AND ELECTRICAL ENGINEER
 CATOR RUMA & ASSOCIATES CO

DRAWING SET:

ARCHITECTURAL
 STRUCTURAL
 MECHANICAL
 ELECTRICAL

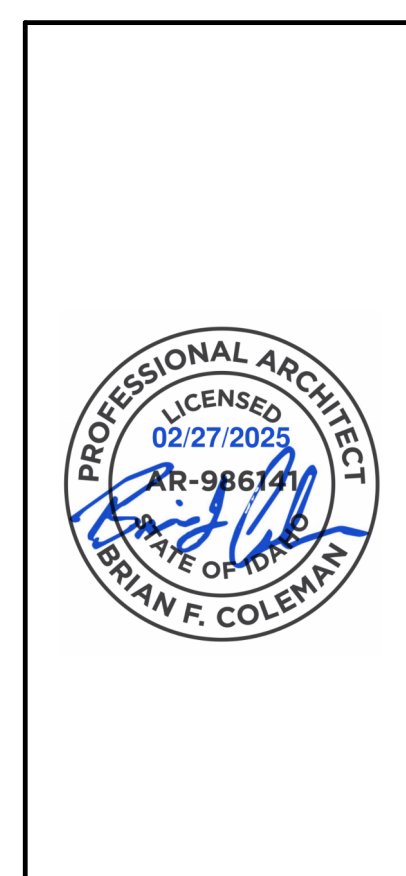
VICINITY MAP:

H.A. - JOB # 24076



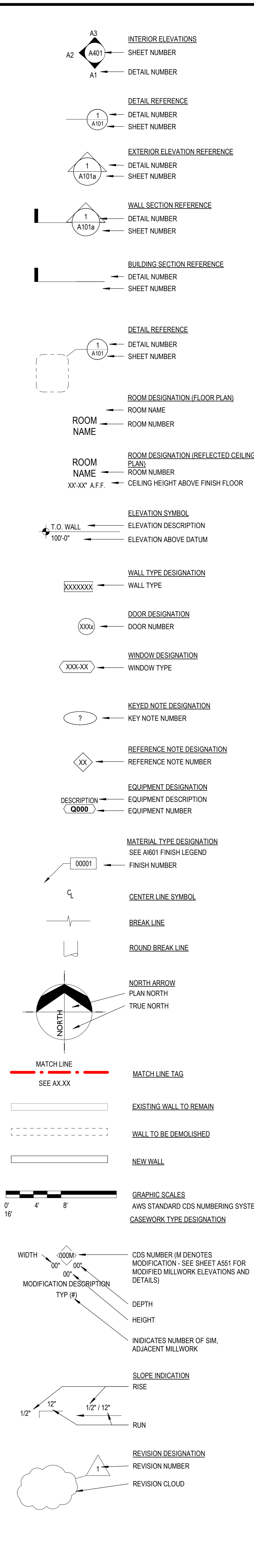
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SYMBOLS:



ABBREVIATIONS:

#	NUMBER OR POUND	JAN	JANITOR
o	DIAMETER	JST	JOIST
@	ANGLE	JT	JOINT
AT	AND	LAB	LABORATORY
&	CENTERLINE	LAV	LAVATORY
CL	CENTERLINE	LAM	LAMINATE
AB	ANCHOR BOLT	LAV	LAVATORY
ACP	ACOUSTICAL CEILING PANEL	MAT	MATERIAL
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
AF	ABOVE FINISH FLOOR	MET	METAL
ALUM	ALUMINUM	MFR	MANUFACTURER
ANOD	ANODIZED	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
ASSOC	ASSOCIATED	ML	MEASURING LINE
AWS	ACOUSTICAL WALL PANEL	MO	MASONRY OPENING
	ACOUSTICAL WALL SYSTEM	MTD	MOUNTED
		MTG	MOUNTING
BD	BOARD	NA	NOT APPLICABLE
BFC	BROOM FINISH CONCRETE	NB	NO BASE (EXPOSED WALL OR FOUNDATION)
BLDG	BUILDING	NC	NEW CONCRETE
BLKG	BLOCKING	NIC	NOT IN CONTRACT
BM	BEAM	NM	NEW MASONRY
BO	BOTTOM OF	NO	NUMBER
BOT	BOTTOM	NOM	NOMINAL
BRG	BEARING	NTS	NOT TO SCALE
BSMT	BASEMENT	OC	ON CENTER
BTWN	BETWEEN	OD	OUTSIDE DIAMETER
CAB	CABINET	OFF	OFFICE
CPT	CARPET	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
C.I.P.	CAST-IN-PLACE	OFR	OWNER FURNISHED/OWNER INSTALLED
CJ	CONTROL JOINT	OPNG	OPENING
CL	CENTERLINE	OTA	OPEN TO ABOVE
CLG	CEILING	OTS	OPEN TO STRUCTURE
CMU	CONCRETE MASONRY UNITS	OVF	OVERFLOW
CO	CLEAN OUT	PC	PAINT COLOR
COL	COLUMN	P.I.V.	POST INDICATOR VALVE
CONC	CONCRETE	PLAST	PLASTIC
CONST	CONSTRUCT	PLYWD	PLYWOOD
CONT	CONTINUOUS	PR	PAIR
CSK	COUNTERSINK	R	THERMAL RESISTANCE
CMT	CERAMIC MOSAIC TILE	RCP	REFLECTED CEILING PLAN
CQT	CERAMIC QUARRY TILE	RD	ROOF DRAIN
CWB	CERAMIC WALL BASE	RE	RAIN DRAIN LEADER
		REFRIG	REFRIGERATOR
DBL	DOUBLE	REIN	REINFORCING
DEPT	DEPARTMENT	REQ	REQUIRED
DET	DETAIL	RF	EPOXY FLOOR SYSTEM
DF	DRINKING FOUNTAIN	RM	ROOM
DIA	DIAMETER	RO	ROUGH OPENING
DM	DIMENSION	RST	RUBBER STAIR TREADS
DN	DOWN	RW	REDWOOD
DS	DOWNSPOUT	RWB	RUBBER WALL BASE
		RWC	RAIN WATER CONDUCTOR
EA	EACH	SC	SEALED CONCRETE
EBS	EXPANSION BASE TRIM	SCHED	SCHEDULE
EJ	EXPANSION JOINT	SCW	SOLID CORE WOOD
ELEC	ELECTRICAL	SGW	SUSPENDED GYPSUM WALL BOARD
ELEV	ELEVATION	SH	SHEET
EP	EPOXY PAINT	SHG	SHIELDING
EQ	EQUAL	SIM	SIMILAR SPECIFICATIONS
EQUIP	EQUIPMENT	SO	SQUARE
ESTR	EXPOSED STRUCTURE (NEW OR EXISTING)	SS	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		STOR	STORAGE
		STRUCT	STRUCTURAL
		SUSP	SUSPENDED
		SV	SHEET VINYL
		TAG	TONGUE AND GROOVE
		TEMP	TEMPORARY
		TO	TOP OF
		TOM	TOP OF MASONRY
		TS	TUBE STEEL
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
		VAR	VARIABLE
		VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
		VEST	VESTIBULE
		W	WITH
		WC	WATER CLOSET
		WD	WOOD
		WF	WALL FABRIC
		WH	WATER HEATER
		WM	WALK-OFF MAT
		W/O	WITH OUT
		WP	WATERPROOF
		WRGB	WATER RESISTANT GYPSUM BOARD
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

MASTER KEYNOTES:

Keynote #	Keynote Text
05500 C	STEEL ANGLE
05523 A	STEEL GALVANNEAL
06100 A	DIMENSIONAL LUMBER
06100 C	SHEATHING
06100 D	SHIM AS REQUIRED
06155 A	WOOD BLOCKING/VALUER
06203 A	WOOD TRIM PAINT TO MATCH EXISTING
06203 B	PAINTED GROWN MOLDING TO MATCH EXISTING
07200 C	MINERAL WOOL
07250 A	WEATHER RESISTIVE BARRIER
07423 A	THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
07423 B	TPO SHEET FLASHING
07423 E	ROOF INSULATION
07423 G	VAPOR BARRIER
07423 J	FASTENER AND PLATE
07423 L	ROOFING MANUFACTURERS RECOMMENDED SEALANT
07423 Q	MANUFACTURED ROOF PAD
07423 Q	ROOFING MANUFACTURERS RECOMMENDED BONDING ADHESIVE
07620 A	PARAPET CORING
07620 C	METAL FLASHING & TRIM
07620 E	FLASHING AND DRIP EDGE
07620 J	DOWNSPOUT
07620 K	OVERFLOW SCUPPER
07620 N	ROOF EDGE FLASHING
07620 D	SHEET METAL COVER TO INFILL OPENING
07620 Q	MASONRY-TYPE REGLET & COUNTERFLASHING
07620 Z	CLEAT
07720 B	ROOF HATCH
07813 A	FIRE RESISTIVE JOINT SEALANT
07920 B	JOINT SEALANT
07951 16 A	ROOF TO WALL EXPANSION JOINT
07951 16 B	ROOF TO ROOF EXPANSION JOINT
08620 A	FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY
08800 A	GLASS INFILL PANEL
08800 B	INFILL PANEL
09290 A	GYPSUM WALL BOARD
09290 D	GYPSUM BOARD TYPE X
09290 G	CEMENT BOARD
09513 A	RESILIENT BASE
09613 B	CARPET INFILL TO MATCH EXISTING
09900 C	COVER SHEET
09900 D	DRAWING INFORMATION
02.00	DEMO CONCRETE
02.01	DEMO BASEMENT - FLOOR & CEILING PLAN
02.02	DEMO LEVEL 01 - COMPOSITE FLOOR PLAN
02.03	DEMO FLOOR PLAN - LEVEL 01 - AREA 'B'
02.04	DEMO FLOOR PLAN - LEVEL 02 - AREA 'B'
02.05	DEMO DEMO REFLECTED CEILING PLAN
02.06	DEMO REFLECTED CEILING PLAN
A2.00	BASEMENT - COMPOSITE PLANS
A2.01	LEVEL 01 - COMPOSITE FLOOR PLAN
A2.01a	LEVEL 01 - FLOOR PLAN - AREA 'A'
A2.01b	LEVEL 01 - FLOOR PLAN - AREA 'B'
A2.02	LEVEL 02 - FLOOR PLAN - AREA 'B'
A2.03	ROOF - COMPOSITE PLAN
A2.03a	ROOF - AREA 'A'
A2.03b	ROOF - AREA 'B'
A2.91	ROOF DETAILS
A2.92	ROOF DETAILS
A3.01	BUILDING ELEVATIONS
A3.02	BUILDING ELEVATIONS
A3.10	BUILDING SECTIONS
A4.11	EXTERIOR WALL SECTIONS
A4.91	EXTERIOR & INTERIOR DETAILS
A5.01	ENLARGED PLANS
A9.01	LEVEL 01 - COMPOSITE CEILING PLAN
A9.02	LEVEL 02 - CEILING PLAN
A9.11a	LEVEL 01 - CEILING PLAN AREA 'A'
A9.11b	LEVEL 01 - CEILING PLAN AREA 'B'
A9.91	CEILING DETAILS
S0.00	ABBREVIATIONS, SYMBOLS AND SHEET INDEX
S1.00	GENERAL STRUCTURAL NOTES
S1.01	GENERAL STRUCTURAL NOTES
S1.02	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
S1.03	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
S2.01	LOWER ROOF - LOWER TIER FRAMING PLAN
S2.02	CLASSROOM ADDITION BUILDING ROOF FRAMING PLAN, ORIGINAL BUILDING LOWER ROOF - UPPER TIER & LEVEL 02 FLOOR FRAMING PLAN
S2.03	HIGHER ROOF - LOWER TIER FRAMING PLAN
S2.04	HIGHER ROOF - UPPER TIER FRAMING PLAN
S3.00	RETROFIT DETAILS
S3.01	RETROFIT DETAILS
S3.02	RETROFIT DETAILS
M0.01	FIRE PROTECTION LEGENDS & NOTES
F1.01	LEVEL 01 - FIRE PROTECTION PLAN
F1.02	LEVEL 02 - FIRE PROTECTION PLAN
M0.01	MECHANICAL LEGENDS & NOTES
M0.02	MECHANICAL SCHEDULES
M0.03	MECHANICAL SCHEDULES
M0.04	MECHANICAL SCHEDULES
M2.01	BASEMENT - MECHANICAL PLAN
M2.02	LEVEL 01 - HVAC PLAN
M2.03	LEVEL 02 - HVAC PLAN
M2.05	ROOF - MECHANICAL PLAN
M2.11	LEVEL 01 - HVAC PIPING PLAN
M2.12	LEVEL 02 - HVAC PIPING PLAN
M4.01	MECHANICAL CONTROLS
M5.01	MECHANICAL DETAILS
MD2.01	LEVEL 01 - HVAC DEMOLITION PLAN
MD2.02	LEVEL 02 - HVAC DEMOLITION PLAN
MD2.03	ROOF - MECHANICAL DEMOLITION PLAN
MD2.13	LEVEL 01 - HVAC PIPING DEMOLITION PLAN
MD2.14	LEVEL 02 - HVAC PIPING DEMOLITION PLAN
P0.01	PLUMBING LEGENDS, NOTES & SCHEDULES
P2.01	LEVEL 01 - WASTE & VENT PLAN
P2.02	LEVEL 02 - WASTE & VENT PLAN
E0.01	ELECTRICAL LEGENDS & NOTES
E0.11	ELECTRICAL ONE-LINE DIAGRAM
E2.10	BASEMENT - COMPOSITE POWER PLAN
E2.11	LEVEL 01 - COMPOSITE POWER PLAN
E2.12	LEVEL 02 - COMPOSITE POWER PLAN
E2.13	ROOF - COMPOSITE ELECTRICAL PLAN
ED2.10	BASEMENT - COMPOSITE POWER DEMOLITION PLAN
ED2.11	LEVEL 01 - COMPOSITE POWER DEMOLITION PLAN
ED2.12	LEVEL 02 - COMPOSITE POWER DEMOLITION PLAN
ED2.13	ROOF - COMPOSITE POWER DEMOLITION PLAN

CODE INFORMATION:

APPLICABLE CODES

- 2017 NATIONAL ELECTRICAL CODE
- 2017 IDAHO STATE PLUMBING CODE
- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2009 ICC A117-1.2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS

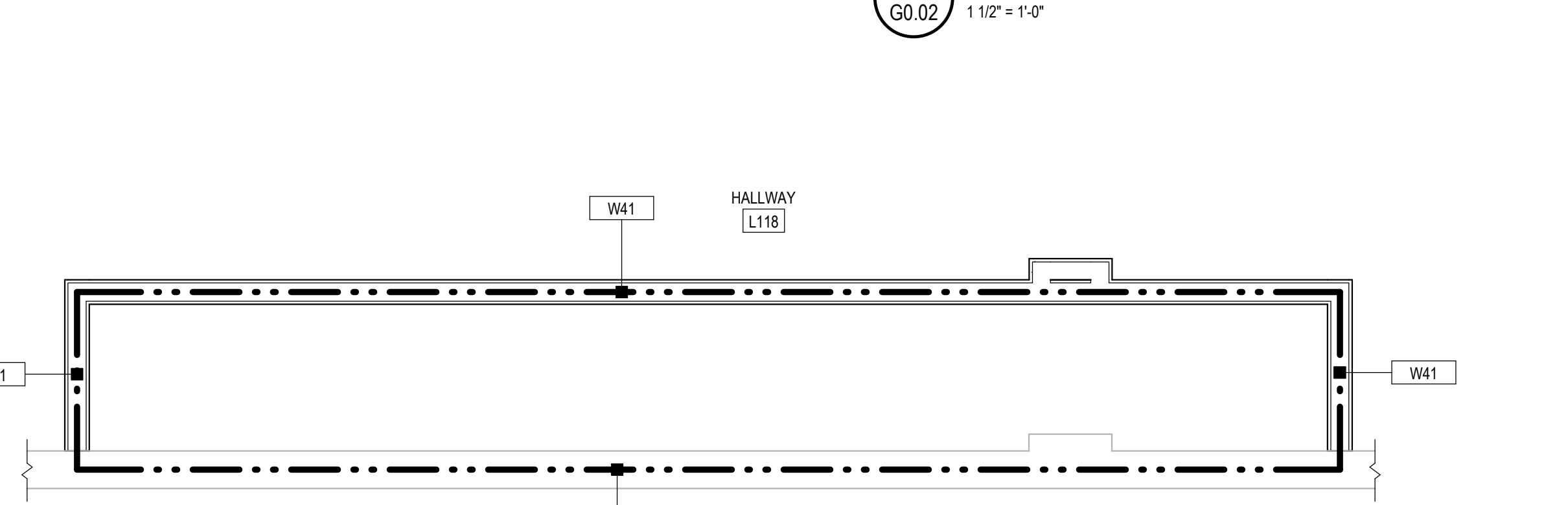
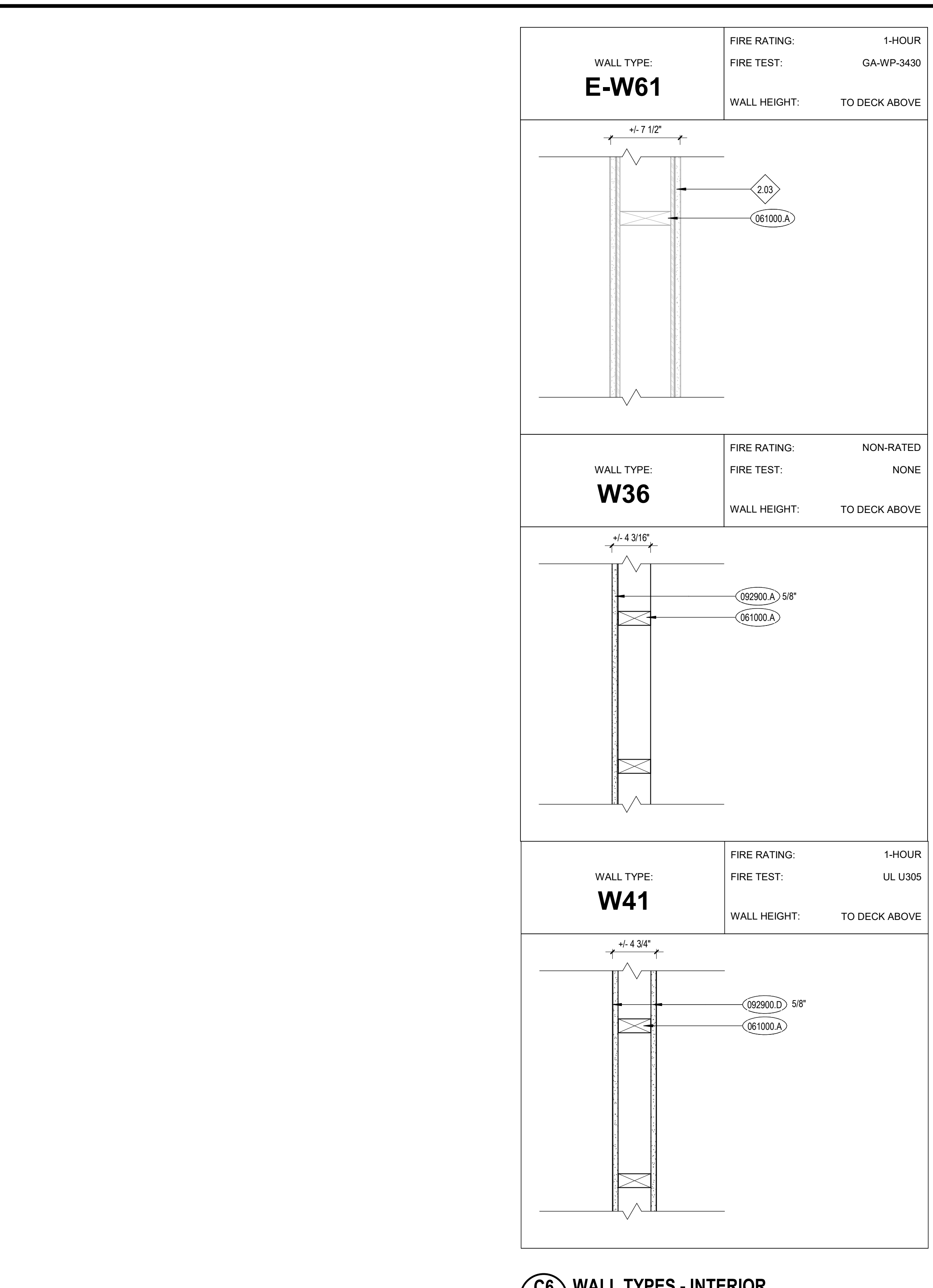
LINCOLN ELEMENTARY SCHOOL

EXISTING SCHOOL

OCCUPANCY TYPE: E FULLY SPRINKLERED

PROJECT DESCRIPTION: REROOFING, HVAC & ELEC UPGRADES AND RENOVATION OF THE EXISTING CLASSROOM AND HALLWAY CEILING. NO FLOOR PLAN OR EGRESS MODIFICATIONS.

OCCUPANT LOAD: UNCHANGED



KEYNOTES

- 06100 A DIMENSIONAL LUMBER
- 06290 A GYPSUM WALL BOARD
- 06290 D GYPSUM BOARD TYPE X

REFERENCE NOTES

- 2.03 EXISTING PLASTER WALL FINISH ON 3/8" ROCKLATH

LEGEND

- FIRE SHAFT - 1-HOUR FIRE-RESISTIVE RATING PER IBC SECTION 713 SHAFT ENCLOSURES.

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Project: LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT
 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet: DRAWING INFORMATION

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PROFESSIONAL ARCHITECT
 LICENSED 02/27/2025
 TR-98674
 STATE OF IDAHO
 BRIAN F. COLEMAN

Revisions: Δ

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 02/27/2025

Sheet No: G0.02

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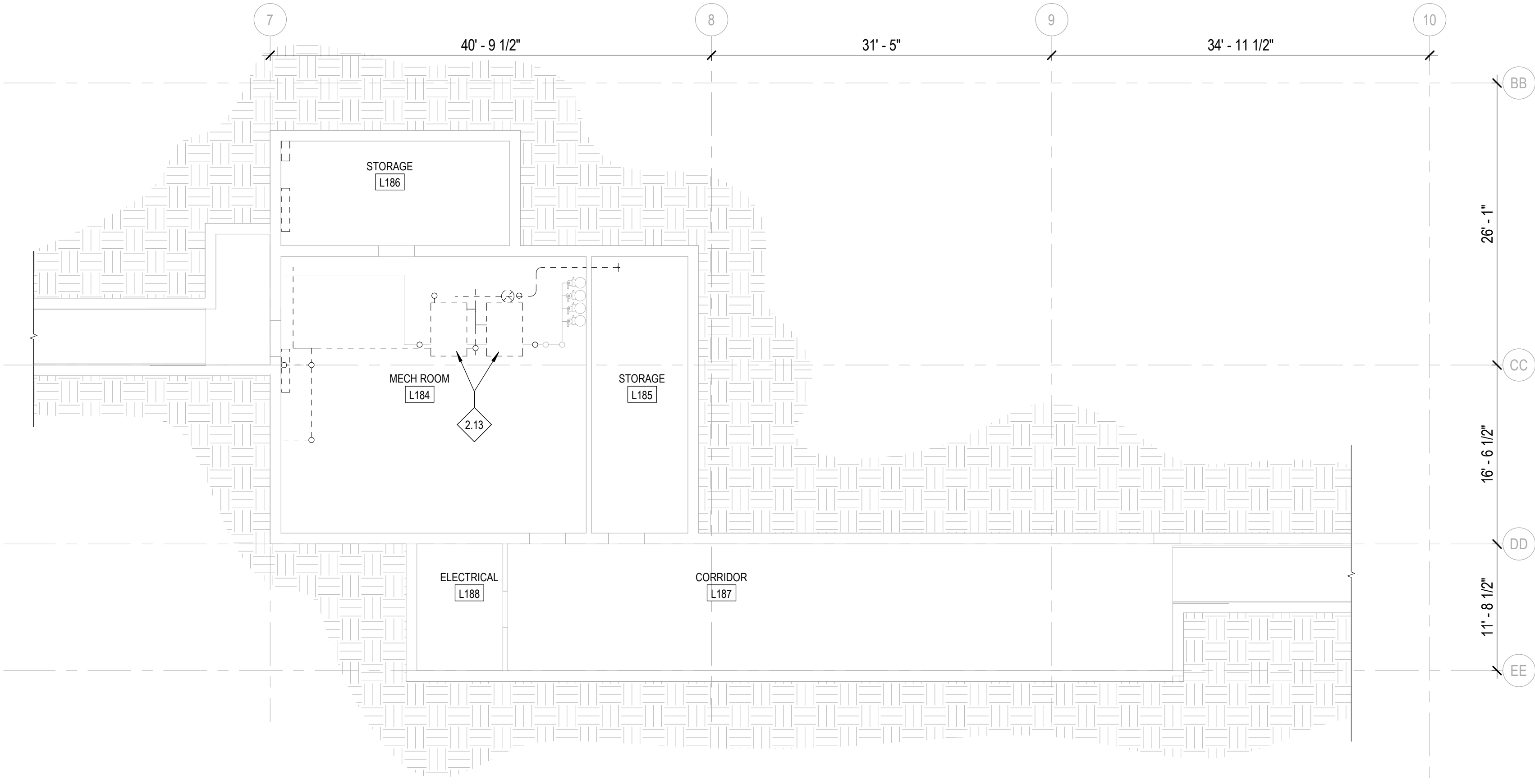
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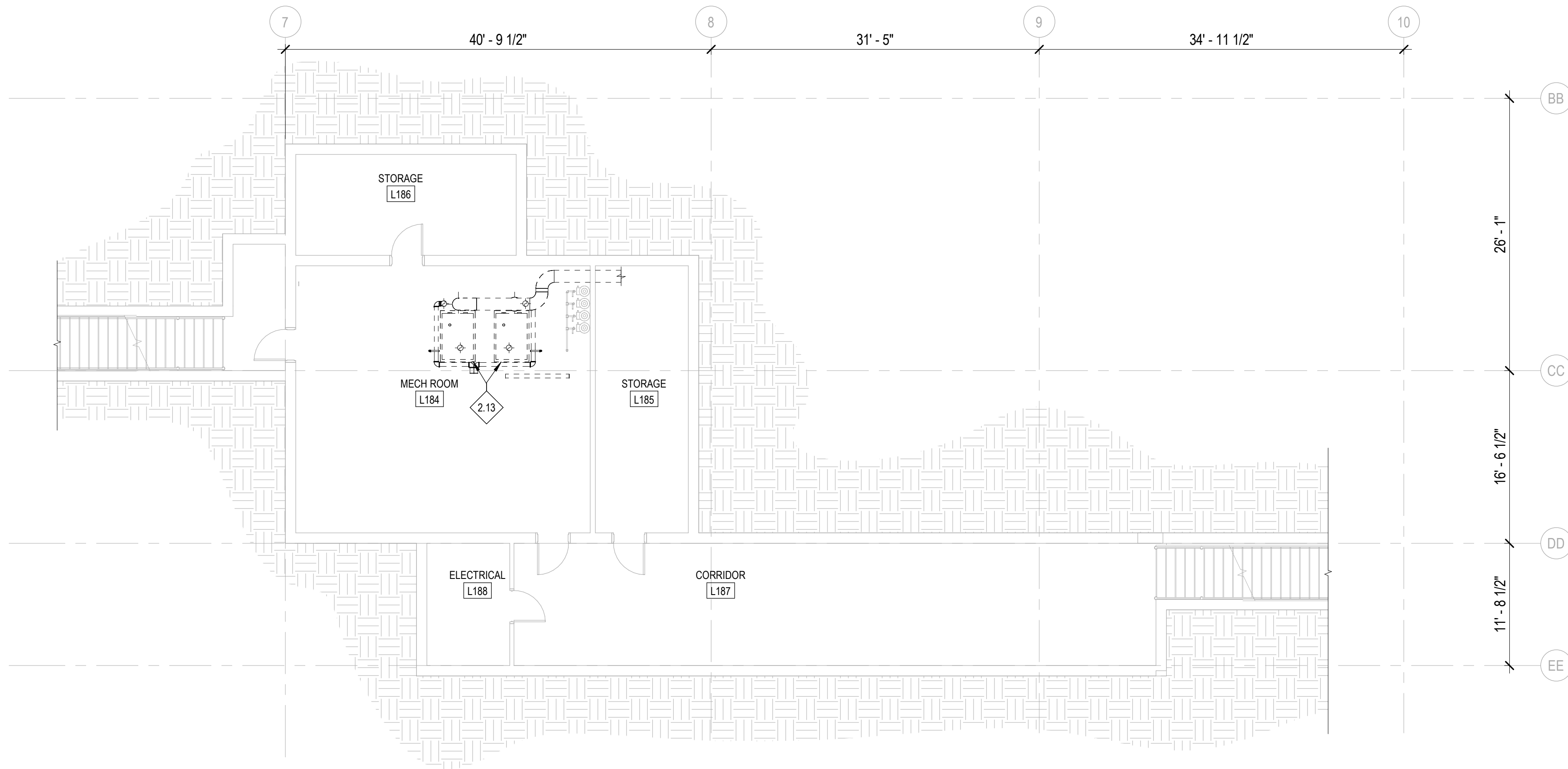
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B1 BASEMENT - DEMO CEILING PLAN
D2.00 1/8" = 1'-0"



D1 BASEMENT- DEMO FLOOR PLAN
D2.00 1/8" = 1'-0"

GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GIB WALL PARTITIONS.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
- SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- FOR DIMENSIONAL EXTENTS OF EXISTING WALL DEMOLITION, CUTTING AND PATCHING, SEE NEW FLOOR PLANS.
- PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
- PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE AND ARTWORK THAT IS TO BE RE-USED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE.
- WHERE EXISTING CARPET/CARPET TILE ARE TO REMAIN, CUT AND PATCH CARPET AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

KEYNOTES

REFERENCE NOTES

- 2.13 REMOVE EXISTING BOILER AND ALL ASSOCIATED ITEMS. COORDINATE WITH MECHANICAL.

LEGEND

- EXISTING WALL SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXISTING THERMOSTAT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXTENT OF DAMAGED CARPET TO BE REMOVED.
- EXISTING DOOR SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING DOOR SYSTEM TO BE REMOVED.

HUMMEL ARCHITECTS

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LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT
LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
DEMO BASEMENT - FLOOR & CEILING PLAN

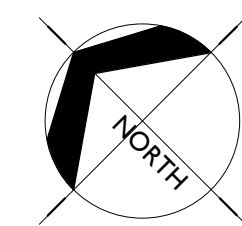
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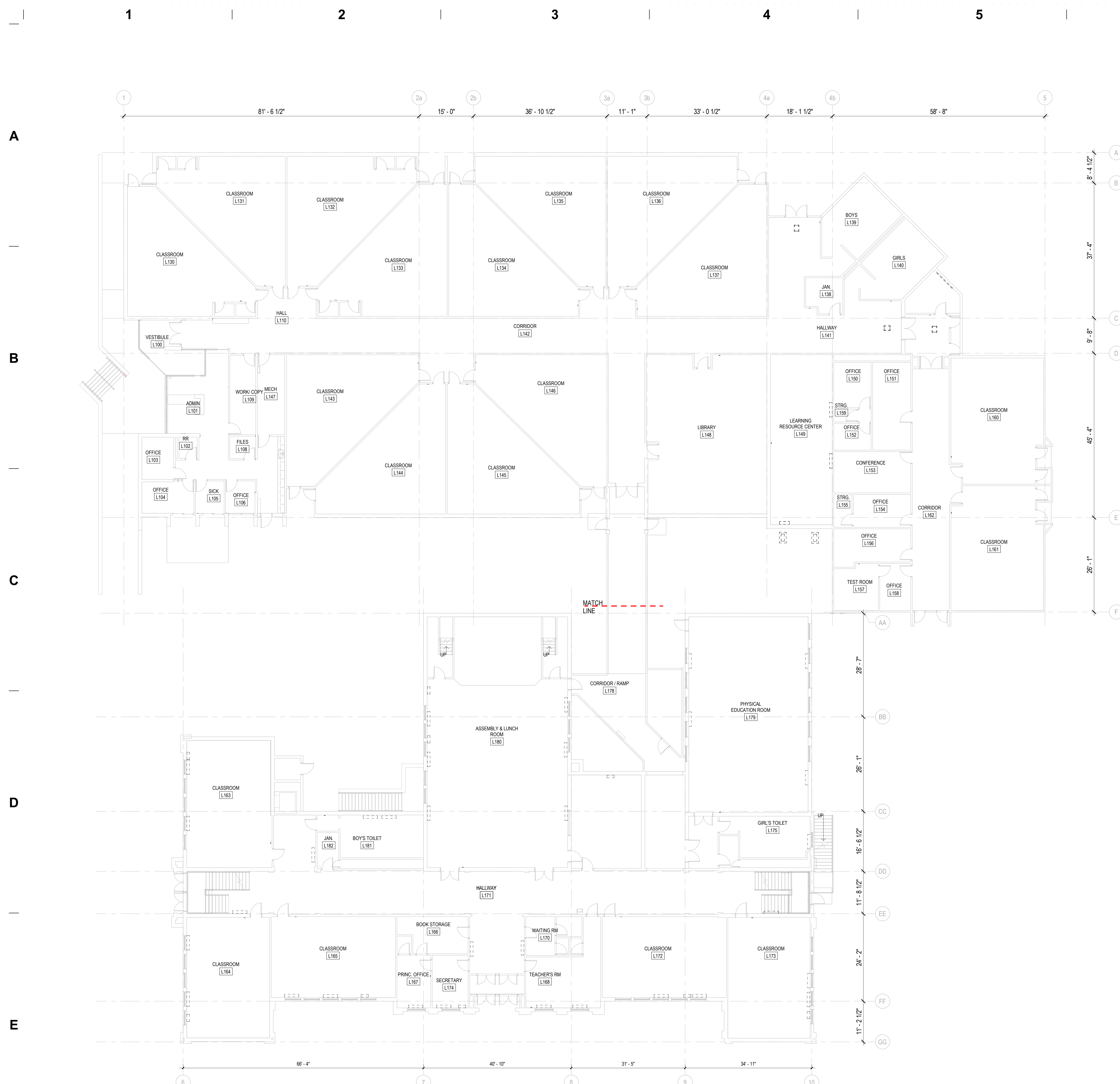


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Project No: 24076
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Checked By: PR
Date: 02/27/2025

Sheet No: **D2.00**





- GENERAL NOTES**
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWS WALLPARTITIONS
 - UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU
 - SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES
 - FOR DIMENSIONAL EXTENTS OF EXISTING WALL DEMOLITION, CUTTING AND PATCHING, SEE NEW FLOOR PLANS
 - PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION
 - PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE AND ARTWORK THAT IS TO BE RE-USED
 - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK
 - COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE
 - WHERE EXISTING CARPET/CARPET TILE ARE TO REMAIN, CUT AND PATCH CARPET AS REQUIRED TO FACILITATE NEW CONSTRUCTION

KEYNOTES

REFERENCE NOTES

- LEGEND**
- EXISTING WALL SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
 - EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
 - EXISTING THERMOSTAT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
 - EXTENT OF DAMAGED CARPET TO BE REMOVED.
 - EXISTING DOOR SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
 - EXISTING DOOR SYSTEM TO BE REMOVED.

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238 BUHL ST N
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Sheet:
DEMO LEVEL 01 - COMPOSITE
FLOOR PLAN

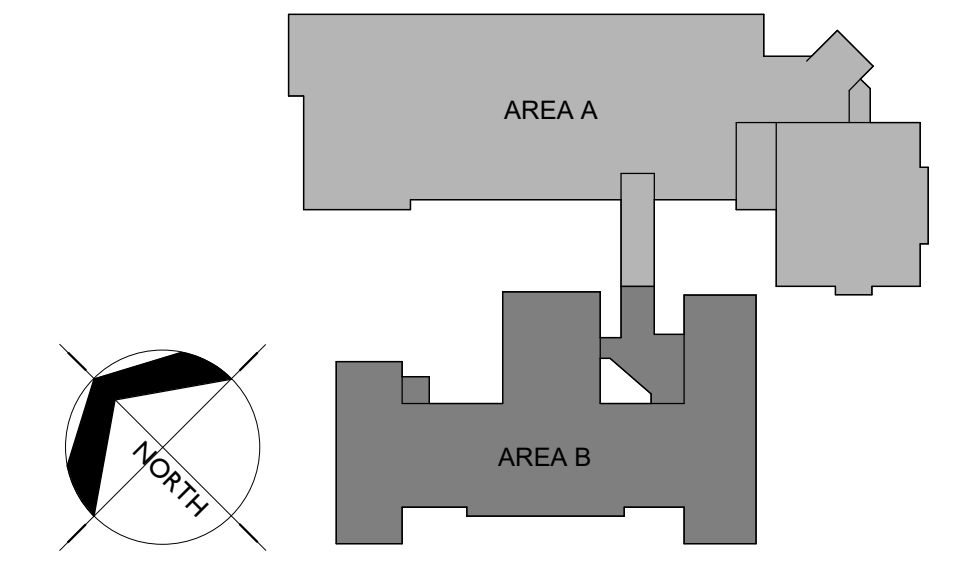
Revisions:

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LICENSED
02/27/2025
TR-98674
STATE OF IDAHO
BRYAN F. COLEMAN

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Sheet No: D2.01

E1 DEMO FLOOR PLAN
D2.01 3/32" = 1'-0"



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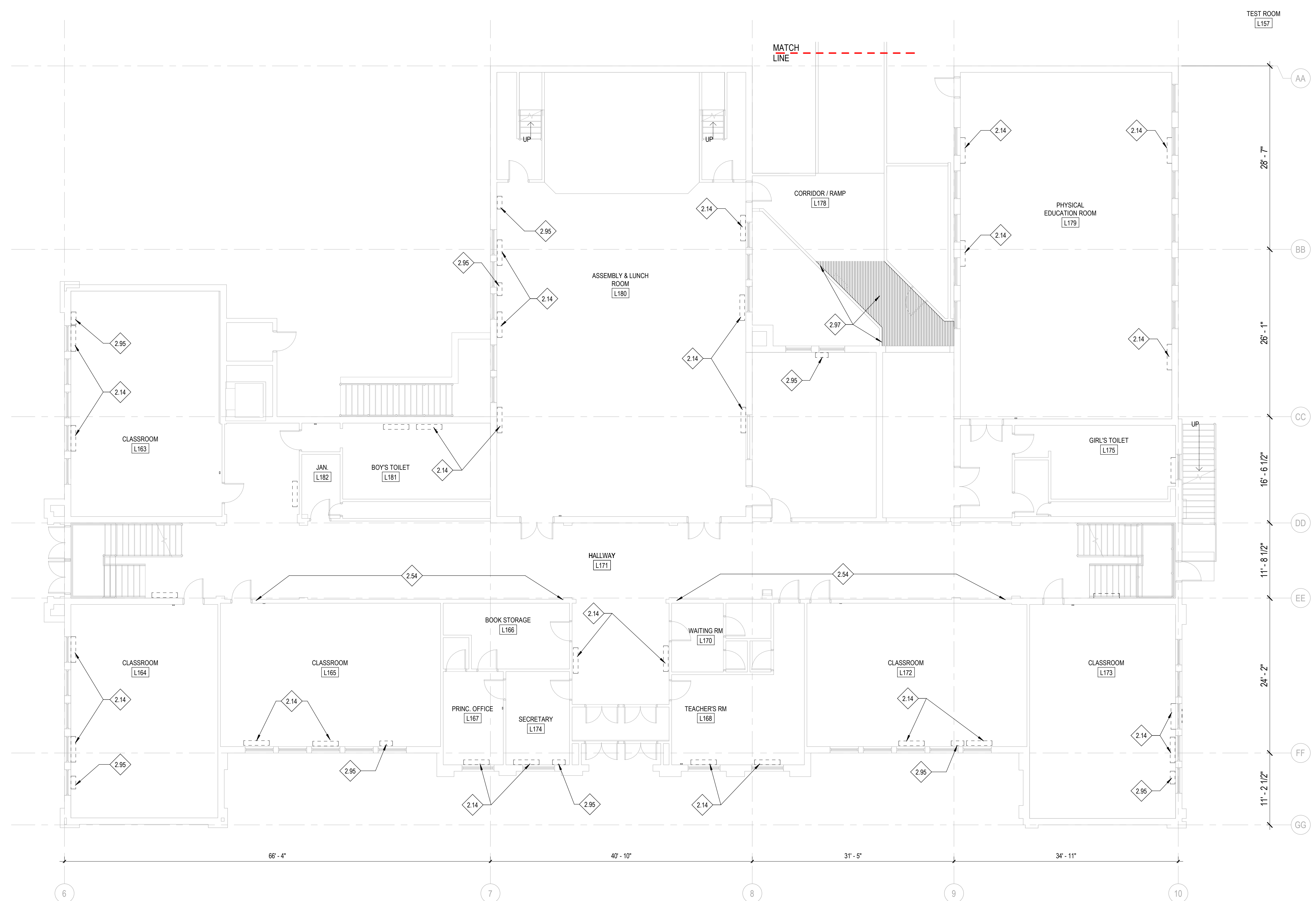
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E1 DEMO FLOOR PLAN - LEVEL 01 - AREA 'B'
D2.02 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWS WALL PARTITIONS.
2. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
3. SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
4. FOR DIMENSIONAL EXTENTS OF EXISTING WALL DEMOLITION, CUTTING AND PATCHING, SEE NEW FLOOR PLANS.
5. PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
6. PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE AND ARTWORK THAT IS TO BE RE-USED.
7. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
8. COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE.
9. WHERE EXISTING CARPET/CARPET TILE ARE TO REMAIN, CUT AND PATCH CARPET AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

KEYNOTES

REFERENCE NOTES

- 2.14 REMOVE EXISTING MECHANICAL UNIT AND ALL ASSOCIATED ITEMS. COORDINATE WITH MECHANICAL DRAWINGS. REMOVE DAMAGED FLOOR AND/OR WALL IN PREPARATION FOR NEW WORK.
- 2.54 EXISTING WALL SHEATHING TO BE REMOVED ON HALLWAY SIDE. IN PREPARATION FOR NEW STRUCTURE. SEE STRUCTURAL DRAWINGS FOR LOCATION OF WORK.
- 2.95 REMOVE EXISTING WINDOW MOUNTED MECHANICAL UNIT AND ASSOCIATED WINDOW PANEL. PREPARE AREA FOR NEW SCOPE OF WORK.
- 2.97 REMOVE DAMAGED CARPET, SHEETROCK AND WALL BASE. PREPARE AREA TO BE PATCHED TO MATCH EXISTING.

LEGEND

- EXISTING WALL SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXISTING THERMOSTAT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXTENT OF DAMAGED CARPET TO BE REMOVED.
- EXISTING DOOR SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING DOOR SYSTEM TO BE REMOVED.

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 LINCOLN ELEMENTARY SCHOOL
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 TWIN FALLS, ID 83301

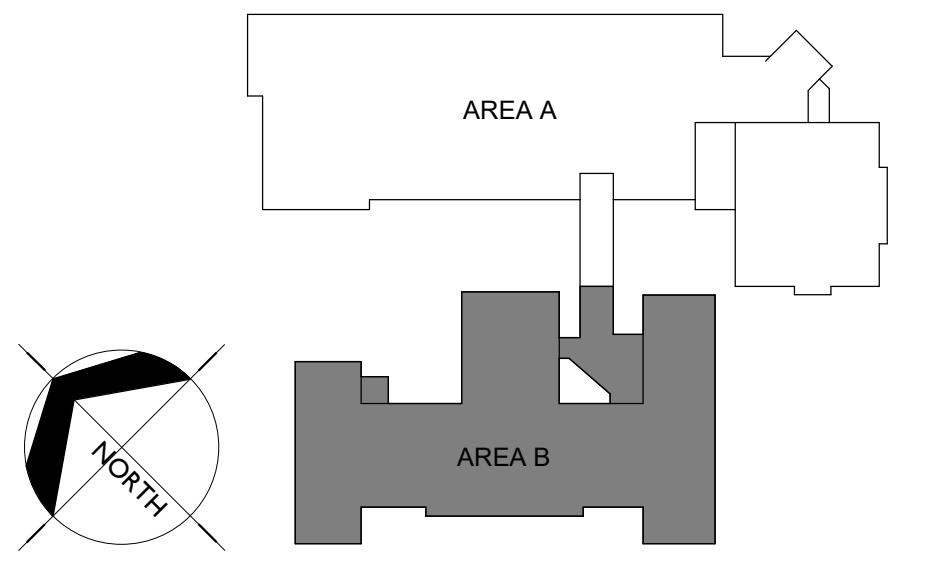
Sheet:
DEMO FLOOR PLAN - LEVEL 01 - AREA 'B'

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Revisions:

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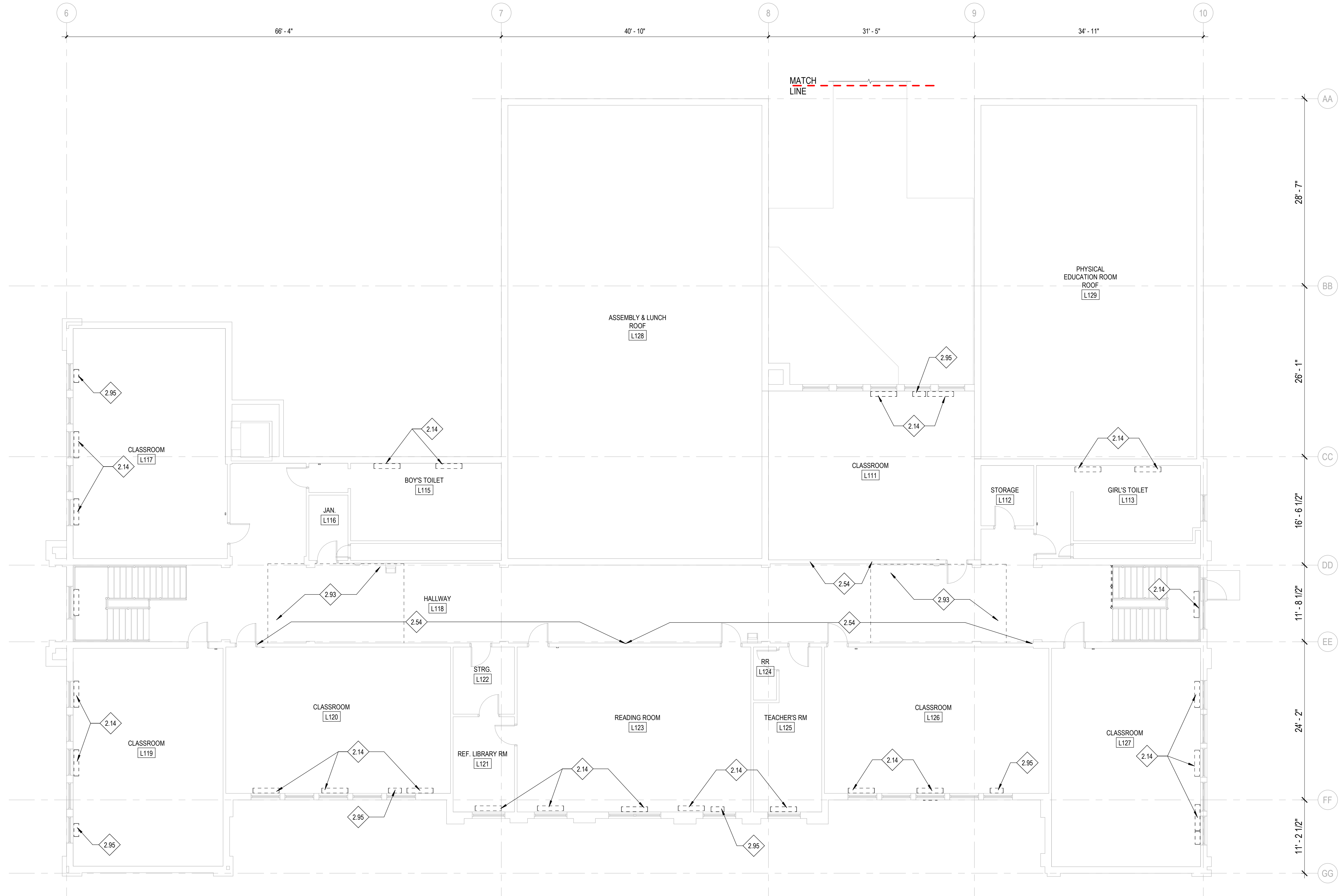
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E1 DEMO FLOOR PLAN - LEVEL 02 - AREA 'B'
D2.03 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GIB WALL SPARTITIONS.
2. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
3. SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
4. FOR DIMENSIONAL EXTENTS OF EXISTING WALL DEMOLITION, CUTTING AND PATCHING, SEE NEW FLOOR PLANS.
5. PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
6. PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE AND ARTWORK THAT IS TO BE RE-USED.
7. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
8. COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE.
9. WHERE EXISTING CARPET/CARPET TILE ARE TO REMAIN, CUT AND PATCH CARPET AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

KEYNOTES

REFERENCE NOTES

- | | |
|------|--|
| 2.14 | REMOVE EXISTING MECHANICAL UNIT AND ALL ASSOCIATED ITEMS. COORDINATE WITH MECHANICAL DRAWINGS. REMOVE DAMAGED FLOOR AND/OR WALL IN PREPARATION FOR NEW WORK. |
| 2.54 | EXISTING WALL SHEATHING TO BE REMOVED ON HALLWAY SIDE. IN PREPARATION FOR NEW STRUCTURE. SEE STRUCTURAL DRAWINGS FOR LOCATION OF WORK. |
| 2.93 | REMOVE EXISTING CARPET AND SUB FLOOR TO PREPARE FOR NEW STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS. |
| 2.95 | REMOVE EXISTING WINDOW MOUNTED MECHANICAL UNIT AND ASSOCIATED WINDOW PANEL. PREPARE AREA FOR NEW SCOPE OF WORK. |

LEGEND

- EXISTING WALL SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXISTING THERMOSTAT TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMO.
- EXTENT OF DAMAGED CARPET TO BE REMOVED.
- EXISTING DOOR SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING DOOR SYSTEM TO BE REMOVED.

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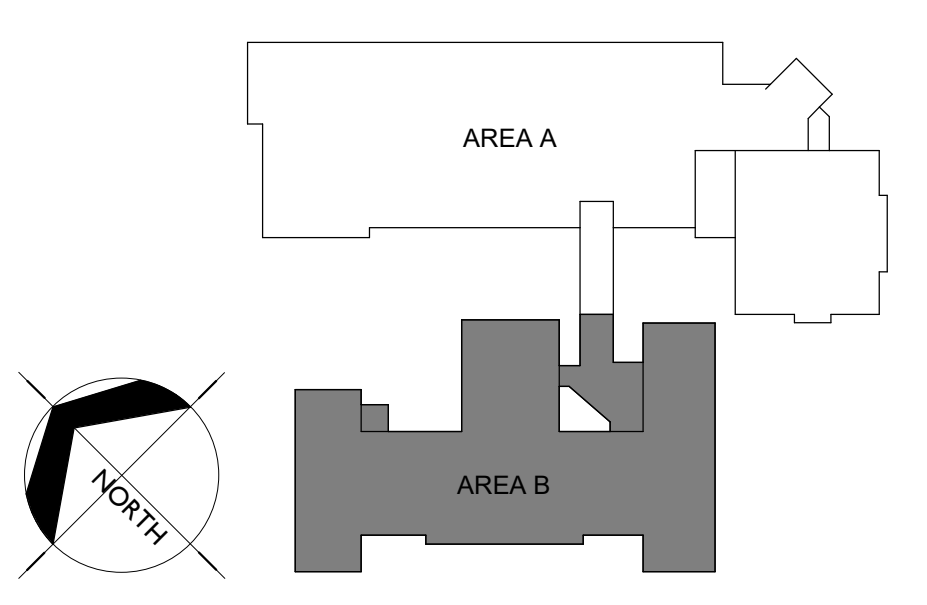
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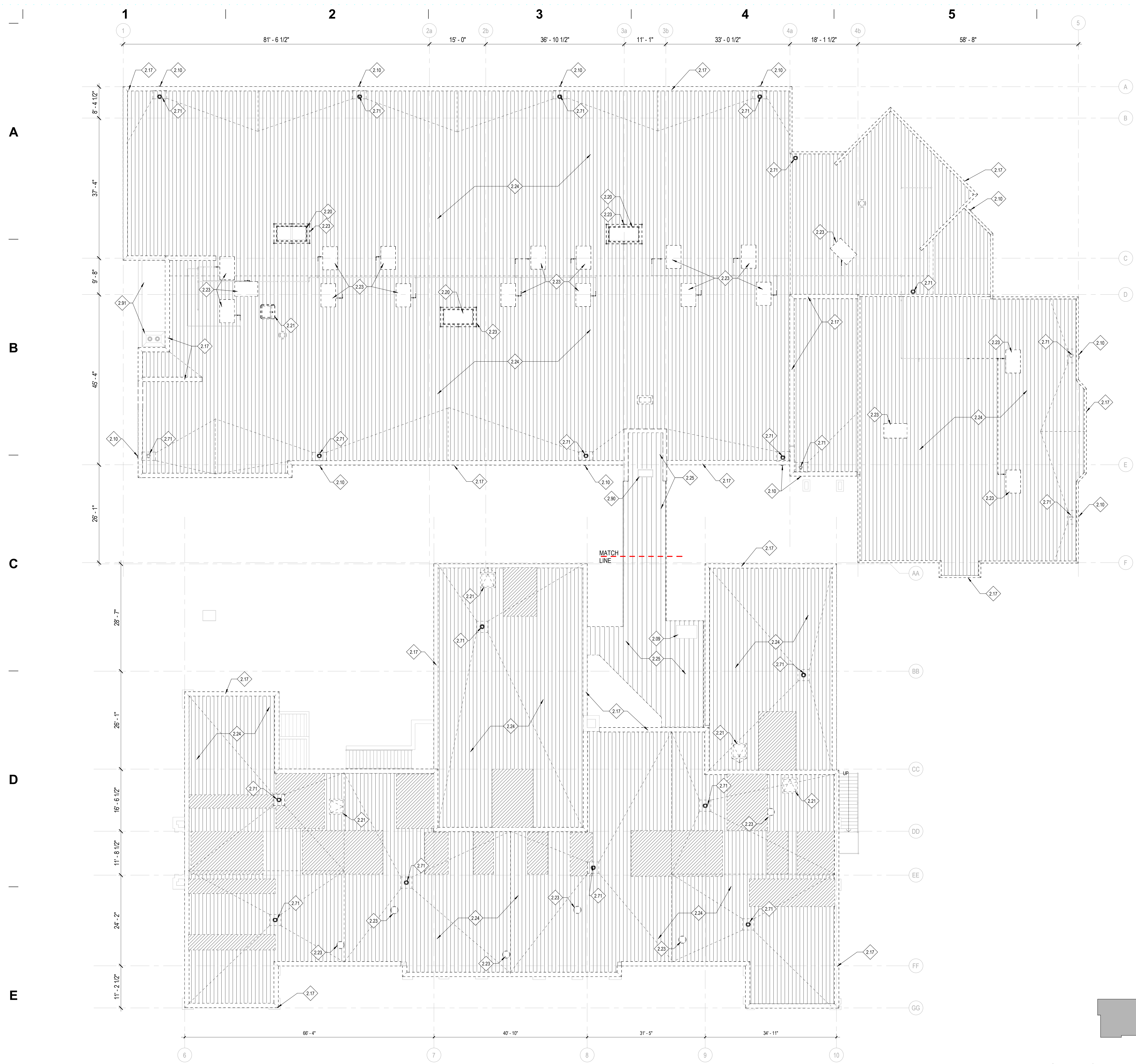
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Sheet No: **D2.03**





GENERAL NOTES

- CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BID. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS.
- DIMENSIONS ARE FOR REFERENCE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS.
- PROVIDE COMPLETE TEAR-OFF OF EXISTING ROOFING SYSTEMS DOWN TO INSULATION.
- DISCONNECT AND RE-ATTACH EXISTING GAS PIPING, ELECTRICAL CONDUITS AND ALL ASSOCIATE ITEMS TO ACCOMPLISH RE-ROOF WORK. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.

KEYNOTES

REFERENCE NOTES

- 2.09 EXISTING MECHANICAL UNIT TO REMAIN. PRESERVE AND PROTECT.
- 2.10 EXISTING OVERFLOW SCUPPER TO BE REMOVED. PREPARE FOR NEW SCUPPER IN THE SAME LOCATION.
- 2.17 REMOVE EXISTING COPING. PREPARE FOR NEW COPING.
- 2.20 DEMO EXISTING SKYLIGHT. PREPARE FOR NEW SKYLIGHT.
- 2.21 DEMO EXISTING ROOF HATCH. PREPARE FOR NEW HATCH.
- 2.23 EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL.
- 2.24 EXISTING METAL ROOFING SYSTEM TO BE REMOVED COMPLETELY. DOWN TO RIGID INSULATION. INCLUDING ANY ASSOCIATED METAL TRIMS. PREPARE FOR NEW TPO ROOF MEMBRANE.
- 2.25 EXISTING ASPHALT ROOFING SYSTEM TO BE REMOVED, INCLUDING ANY ASSOCIATED METAL TRIMS. PREPARE FOR NEW INSULATION AND TPO ROOF MEMBRANE.
- 2.71 EXISTING ROOF DRAIN TO BE REMOVED AND PREPARED FOR NEW ROOF DRAIN. SEE PLUMBING DRAWINGS.
- 2.90 EXISTING SKYLIGHT TO REMAIN AND BE PROTECTED.
- 2.91 EXISTING TPO ROOF AND DRAIN TO REMAIN AND BE PROTECTED.

LEGEND

- IN AREAS INDICATED EXISTING METAL ROOFING. INSULATION AND ASPHALT SHINGLES SHALL BE REMOVED DOWN TO SHEATHING.
- IN AREAS INDICATED EXISTING ROOF SHEATHING SHALL BE REMOVED AS REQUIRED TO ACCOMMODATE STRUCTURAL MODIFICATIONS - SEE STRUCTURAL DRAWINGS.
- EXISTING MECHANICAL UNITS, METAL PARAPET CAP, GUTTERS, FLASHINGS, AND TRIM PIECES SHALL BE REMOVED.

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Sheet:
DEMO ROOF PLAN

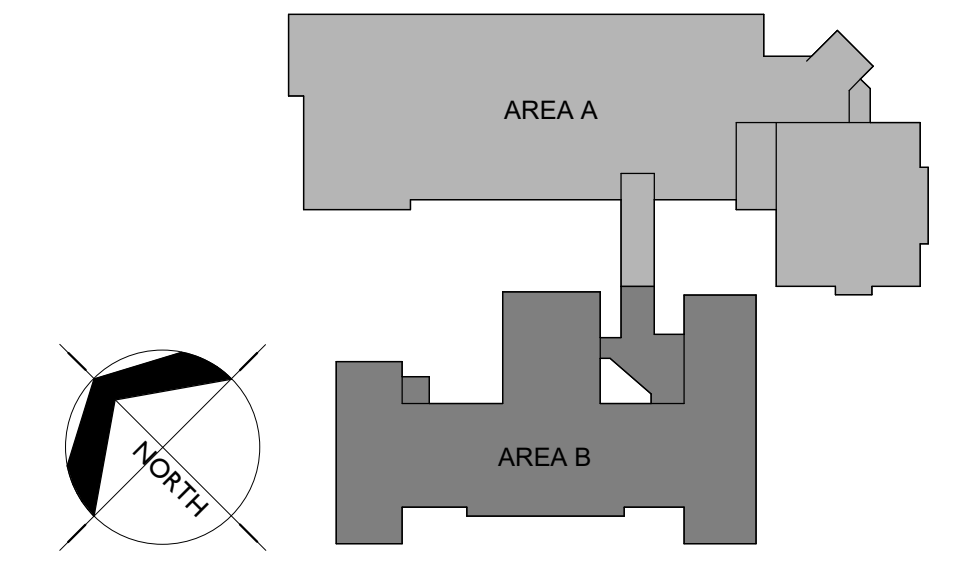
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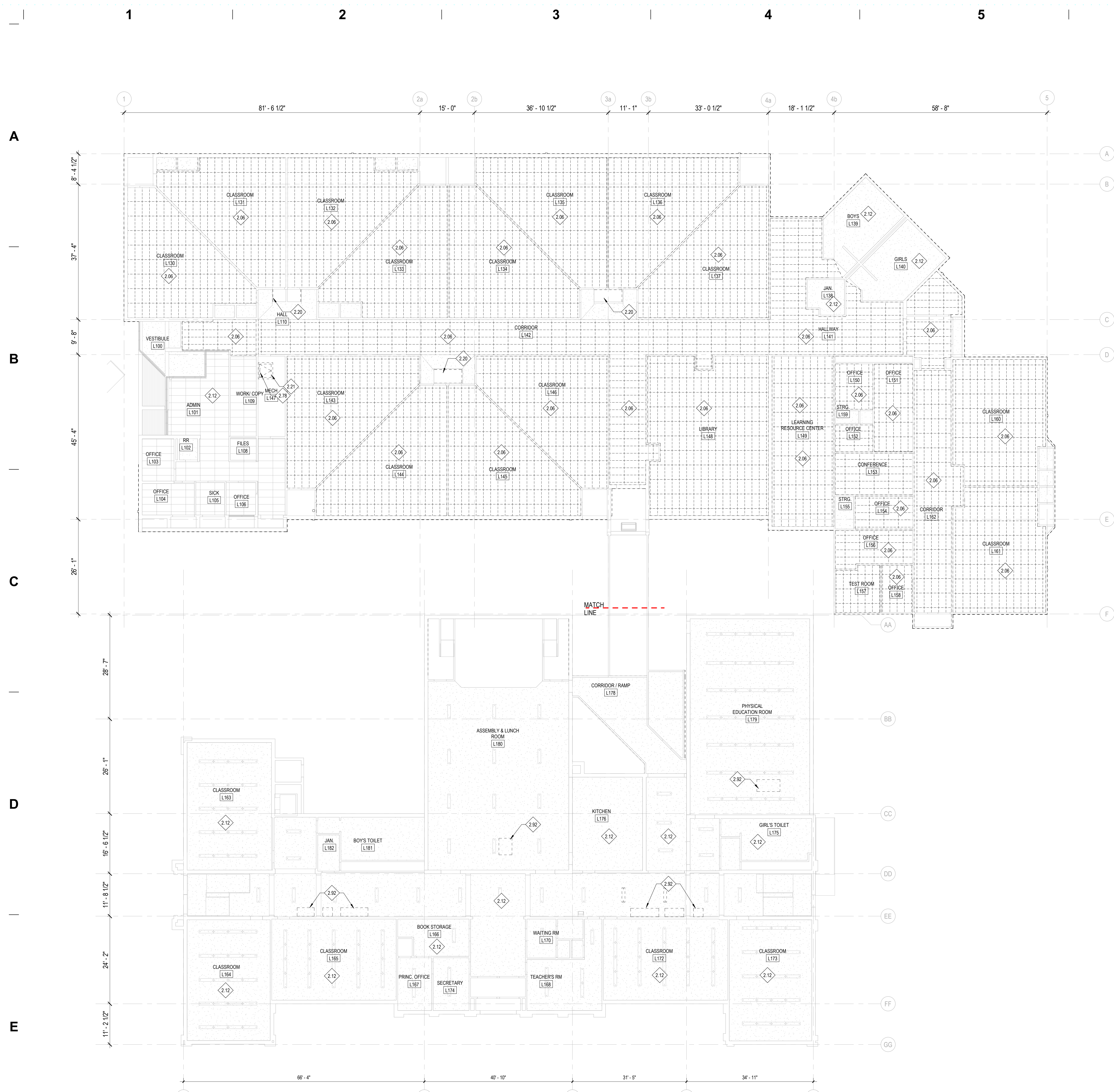
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Sheet No: **D2.04**

E1 DEMO ROOF PLAN
 D2.04 1" = 10'-0"



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GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALLPARTITIONS.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
- SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, CEILING, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
- PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE THE DEMOLITION OF EXISTING CEILING WITH REFLECTED CEILING PLANS.
- FIELD VERIFY ALL EXISTING STRUCTURAL WALLS AND BEAMS.

KEYNOTES

REFERENCE NOTES

- 2.06 EXISTING CEILING TILES AND CHANNELS TO BE REMOVED. PREPARE FOR NEW CEILING. REMOVE EXISTING ELECTRICAL FIXTURES. SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK. EXISTING DUCTING AND DIFFUSERS TO BE REMOVED. SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK.
- 2.12 CEILING AND LIGHTS EXISTING TO REMAIN
- 2.20 DEMO EXISTING SKYLIGHT. PREPARE FOR NEW SKYLIGHT.
- 2.21 DEMO EXISTING ROOF HATCH. PREPARE FOR NEW HATCH.
- 2.78 EXISTING ROOF LADDER TO REMAIN
- 2.92 DEMO EXISTING CEILING IN INDICATED AREA TO PREPARE FOR NEW MECHANICAL CHASE AND DUCTING. SEE MECHANICAL FOR SIZES AND LOCATIONS.

LEGEND

- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING GYPSUM BOARD CEILING TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO BE REMOVED.
- EXISTING PORTION OF CEILING TO BE REMOVED. SEE MECHANICAL DRAWING.

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Sheet:
 LEVEL 01 - COMPOSITE DEMO REFLECTED CEILING PLAN

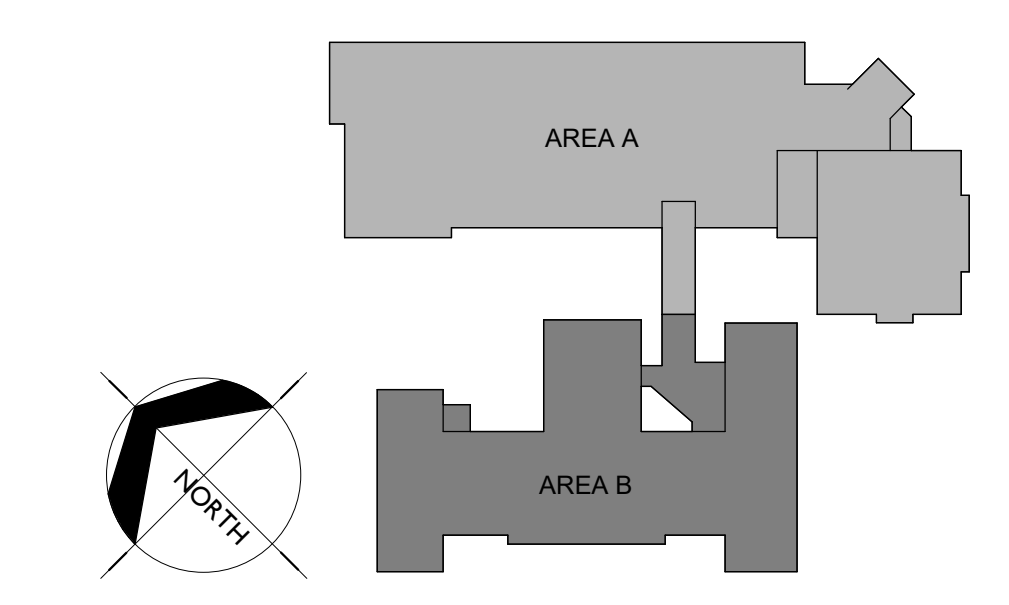
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Sheet No: **D2.05**

E1 LEVEL 01 - DEMO CEILING PLAN
 D2.05 3/32" = 1'-0"



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GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALLS/PARTITIONS.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
- SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, CEILINGS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
- PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE THE DEMOLITION OF EXISTING CEILING WITH REFLECTED CEILING PLANS.
- FIELD VERIFY ALL EXISTING STRUCTURAL WALLS AND BEAMS.

KEYNOTES

REFERENCE NOTES

- 2.12 CEILING AND LIGHTS EXISTING TO REMAIN
 2.92 DEMO EXISTING CEILING IN INDICATED AREA TO PREPARE FOR NEW MECHANICAL CHASE AND DUCTING. SEE MECHANICAL FOR SIZES AND LOCATIONS.

LEGEND

- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING GYPSUM BOARD CEILING TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO BE REMOVED.
- EXISTING PORTION OF CEILING TO BE REMOVED. SEE MECHANICAL DRAWING.

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LEVEL 02 - DEMO REFLECTED CEILING PLAN

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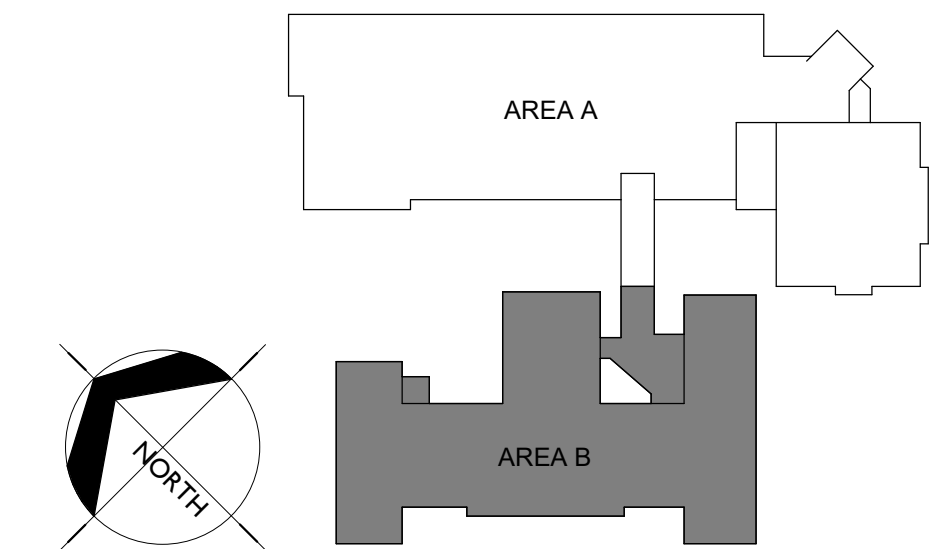
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D2.06

E1 LEVEL 2- DEMO CEILING PLAN
 D2.06 1/8" = 1'-0"



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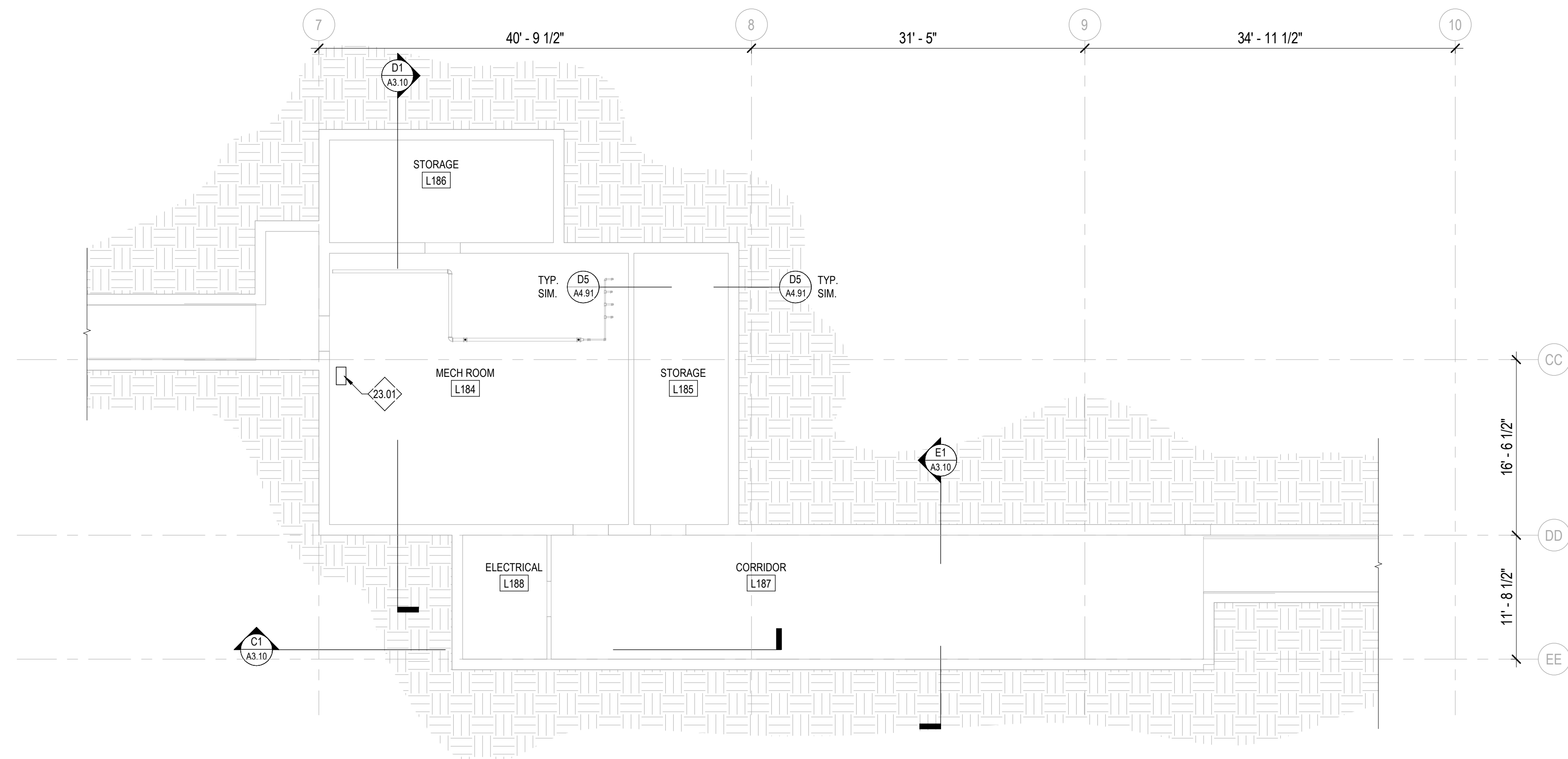
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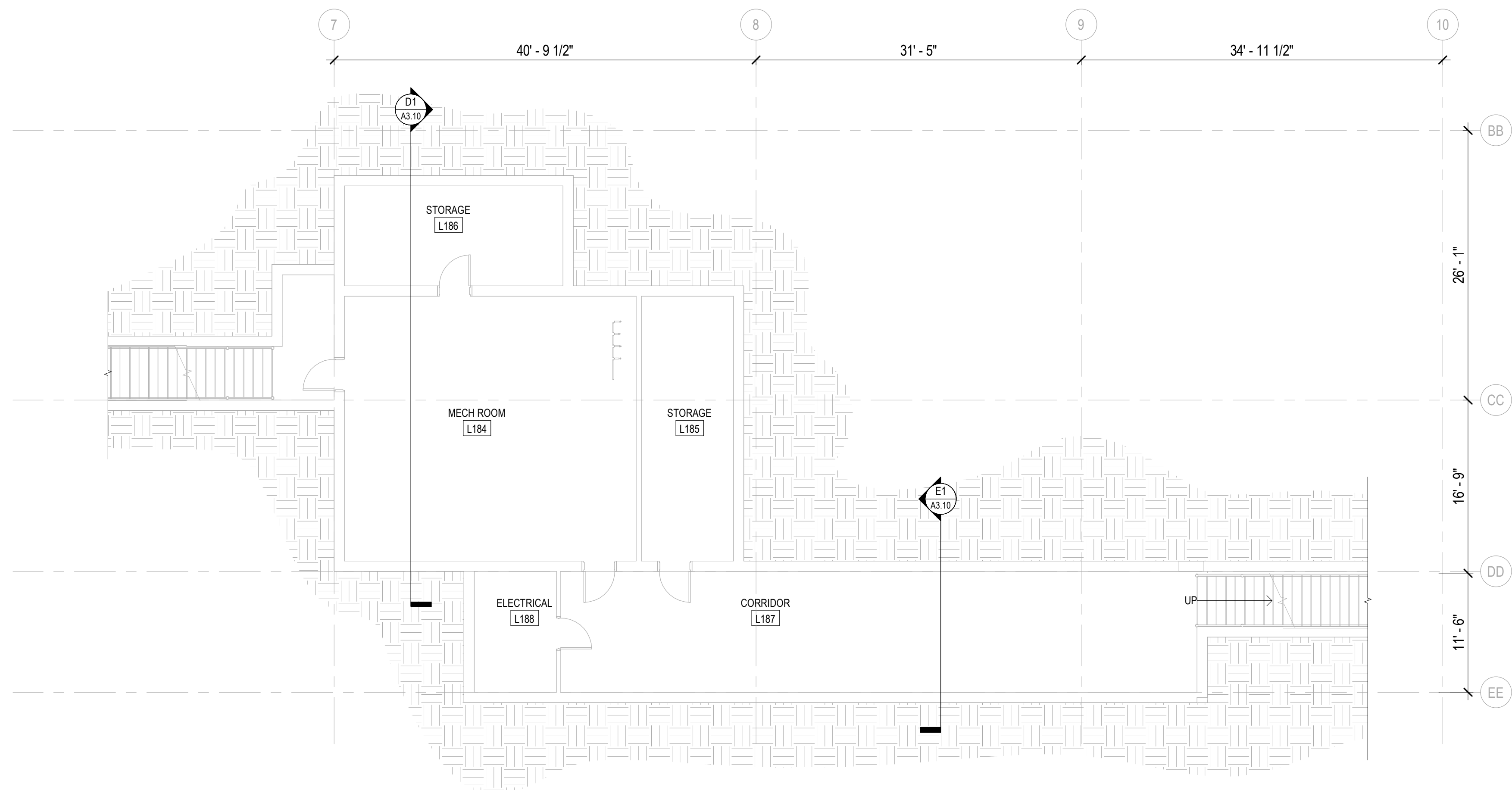
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B1 BASEMENT - CEILING PLAN
A2.00 1/8" = 1'-0"



D1 BASEMENT - FLOOR PLAN
A2.00 1/8" = 1'-0"

GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT.
- B. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- D. DO NOT SCALE DRAWINGS.
- E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- F. WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

KEYNOTES

REFERENCE NOTES

23.01 COORDINATE WITH MECHANICAL DRAWINGS.

LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- EXISTING DOOR
- AREA OF FLOOR INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- CARPET INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- MATCH LINE

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BASEMENT - COMPOSITE PLANS

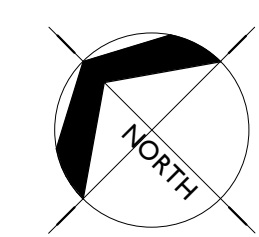
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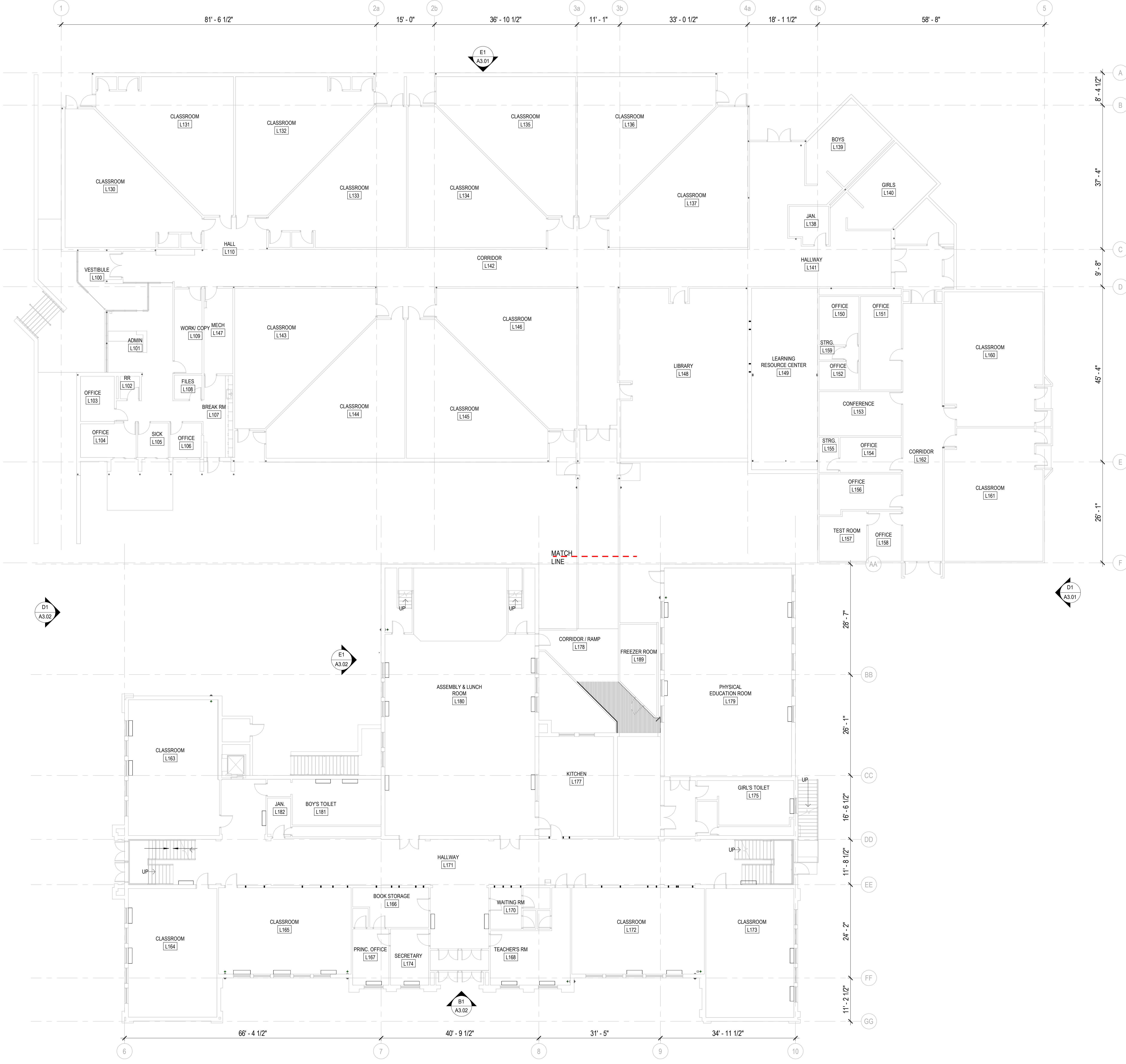
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- GENERAL NOTES**
- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
 - B. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
 - C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
 - D. DO NOT SCALE DRAWINGS.
 - E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - F. WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

LEGEND

	NEW CONSTRUCTION
	EXISTING WALL
	EXISTING WINDOW
	EXISTING DOOR
	AREA OF FLOOR INFILL
	CARPET INFILL
	MATCH LINE

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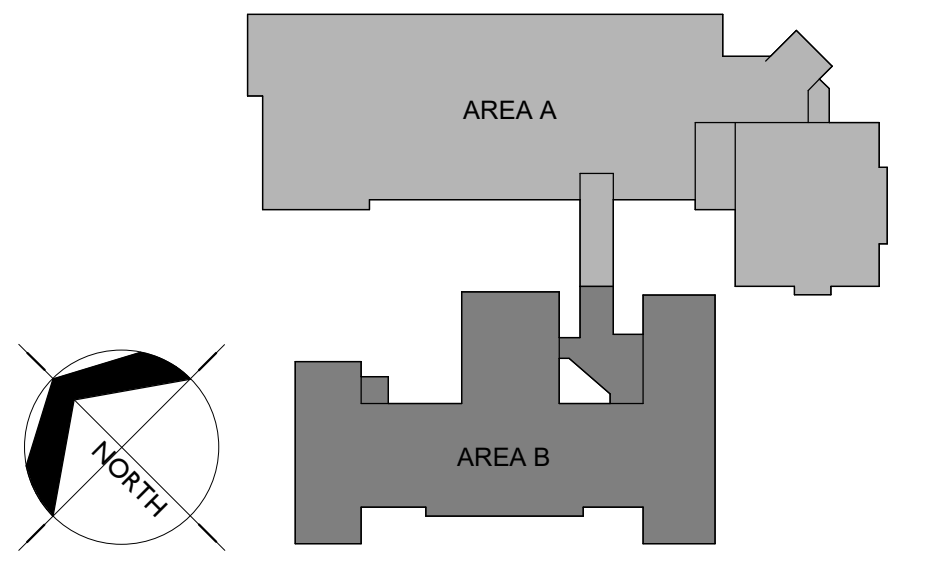
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 LEVEL 01 - COMPOSITE FLOOR PLAN

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E1 LEVEL 01 - COMPOSITE FLOOR PLAN
 A2.01 3/32" = 1'-0"

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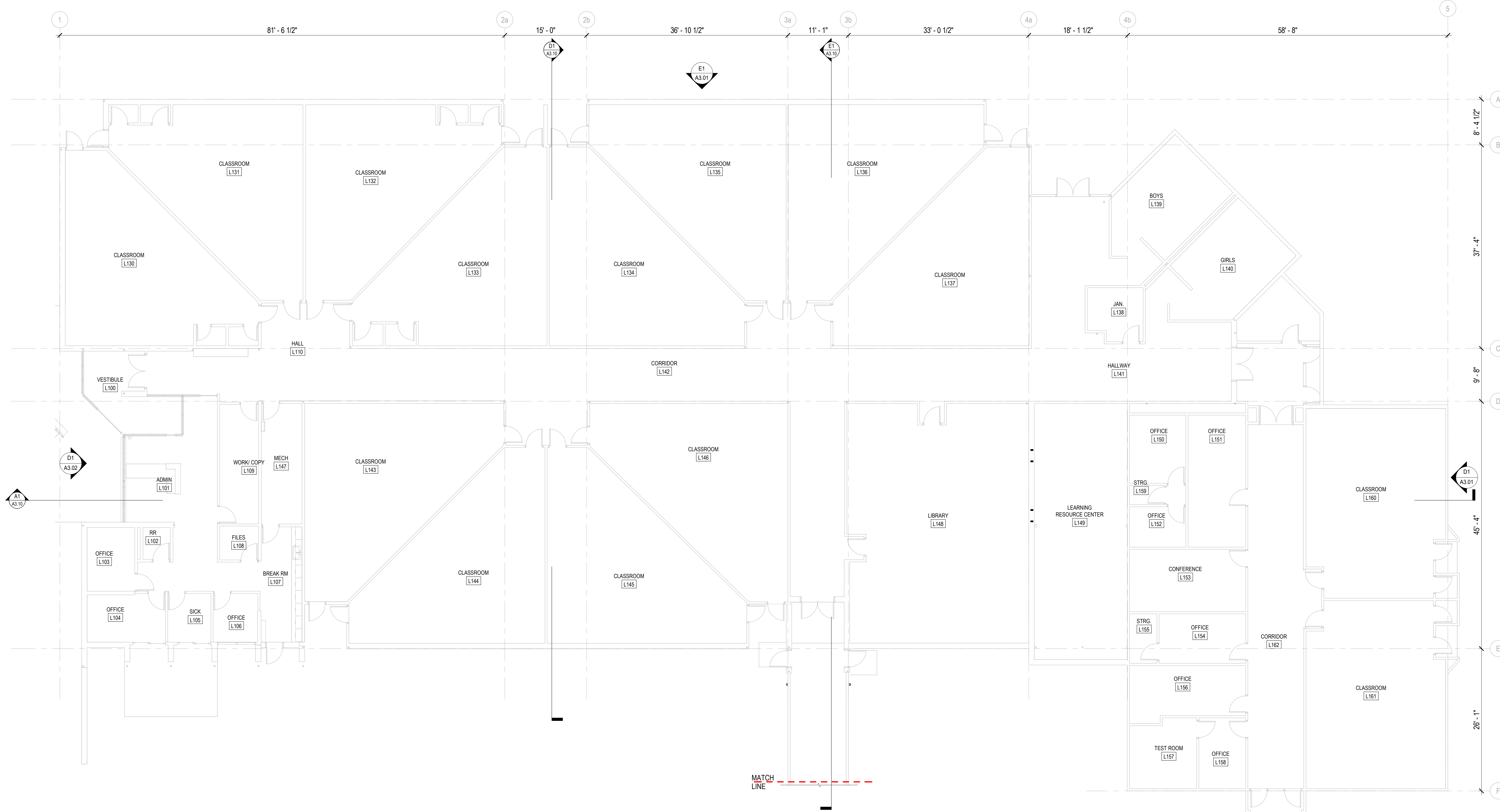
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E1 LEVEL 01 - FLOOR PLAN - AREA 'A'
 A2.01a 1/8" = 1'-0"

GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- B. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. 'CLEAR' DIMENSIONS ARE TO FACE OF WALL FINISH.
- C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- D. DO NOT SCALE DRAWINGS.
- E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- F. WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

KEYNOTES

REFERENCE NOTES

LEGEND

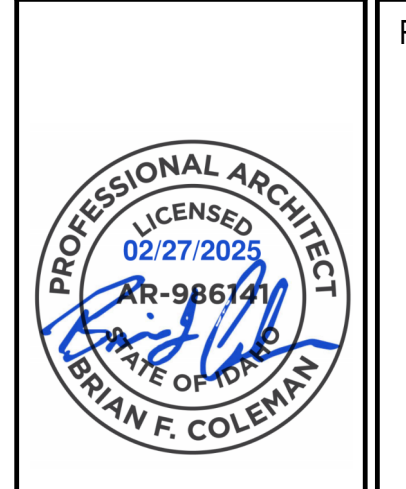
- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- EXISTING DOOR
- AREA OF FLOOR INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- CARPET INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- MATCH LINE

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 LEVEL 01 - FLOOR PLAN - AREA 'A'

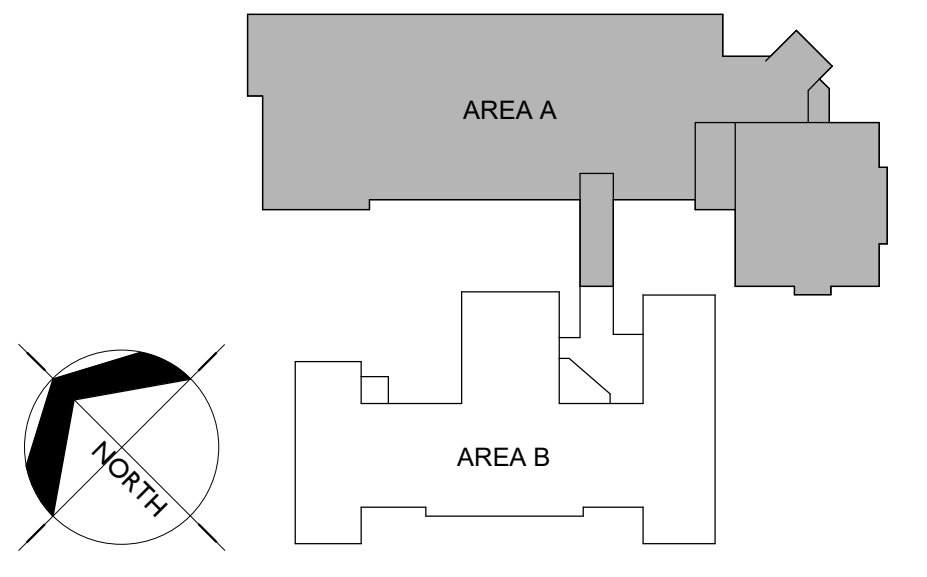
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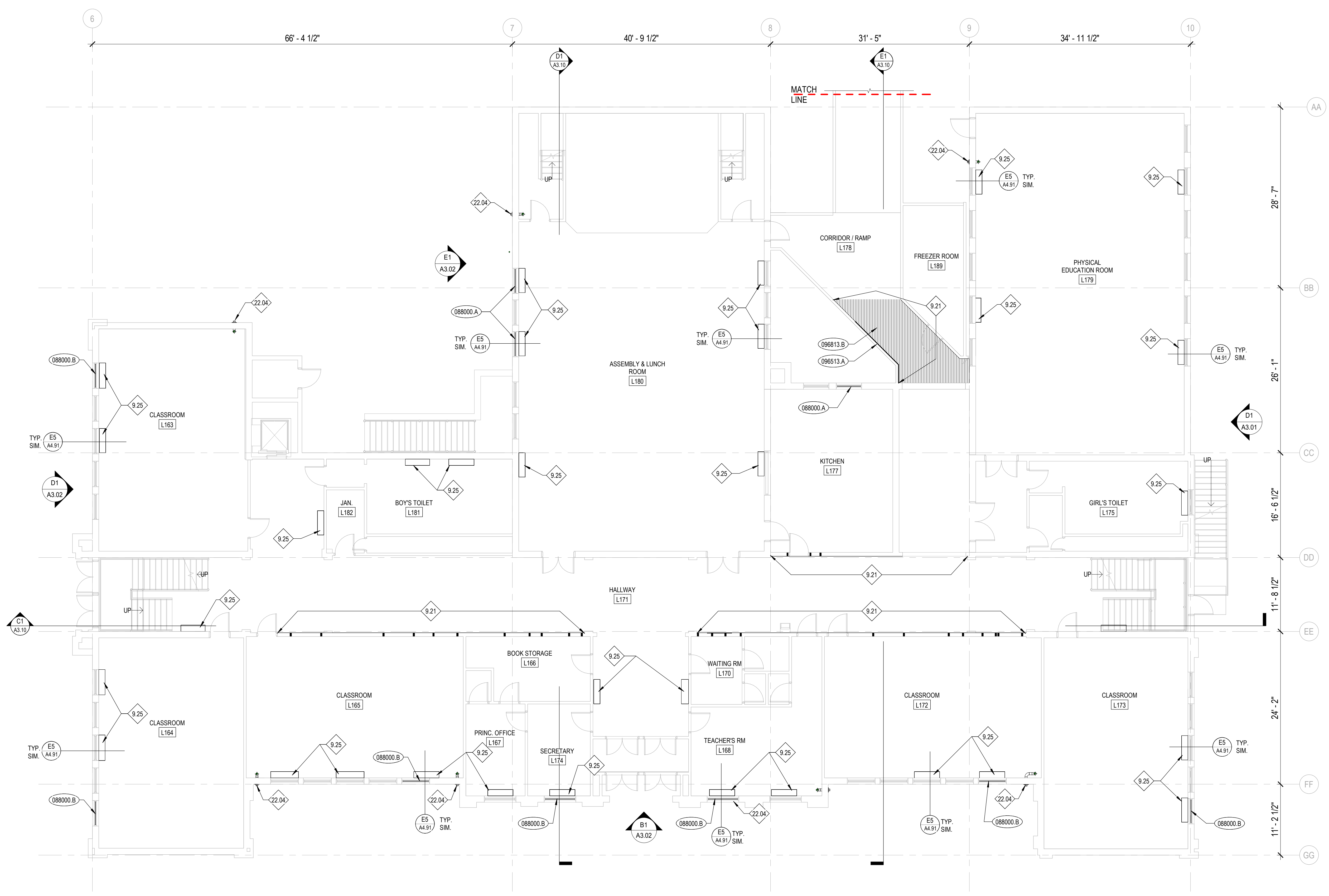


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A2.01a





E1 LEVEL 01 - FLOOR PLAN - AREA 'B'
 A2.01b 1/8" = 1'-0"

GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- B. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- D. DO NOT SCALE DRAWINGS.
- E. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- F. WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

KEYNOTES

- 088000.A GLASS INFILL PANEL.
- 088000.B INFILL PANEL.
- 096513.A RESILIENT BASE
- 096813.B CARPET INFILL TO MATCH EXISTING

REFERENCE NOTES

- 9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER. FLOOR TO CEILING TO MATCH EXISTING.
- 9.25 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL TO MATCH EXISTING. NEW CONTINUOUS BASE AND FLOOR INFILL AS REQUIRED TO MATCH EXISTING.
- 22.04 OVERFLOW ROOF DRAIN. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS.

LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- EXISTING DOOR
- AREA OF FLOOR INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- CARPET INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- MATCH LINE

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 LEVEL 01 - FLOOR PLAN - AREA 'B'

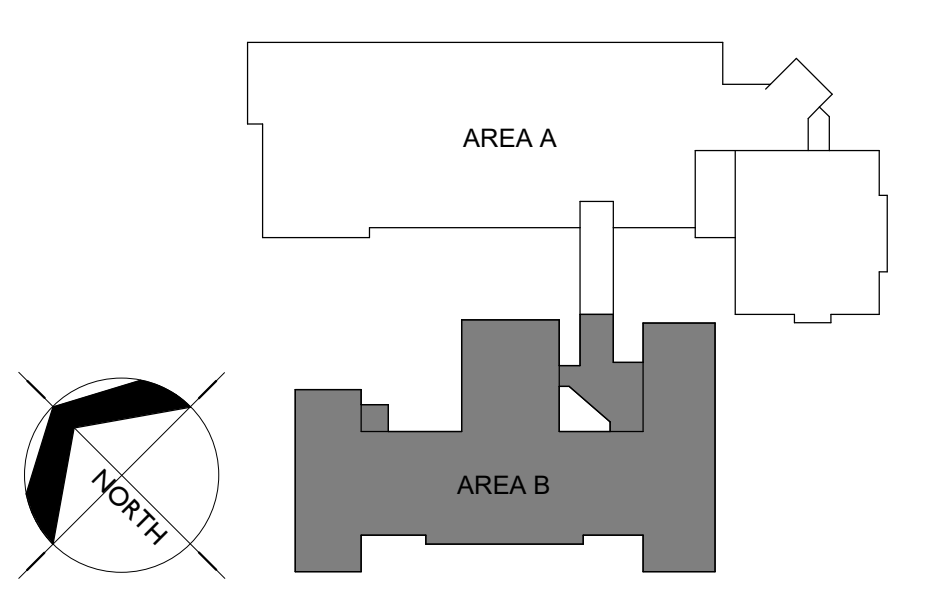
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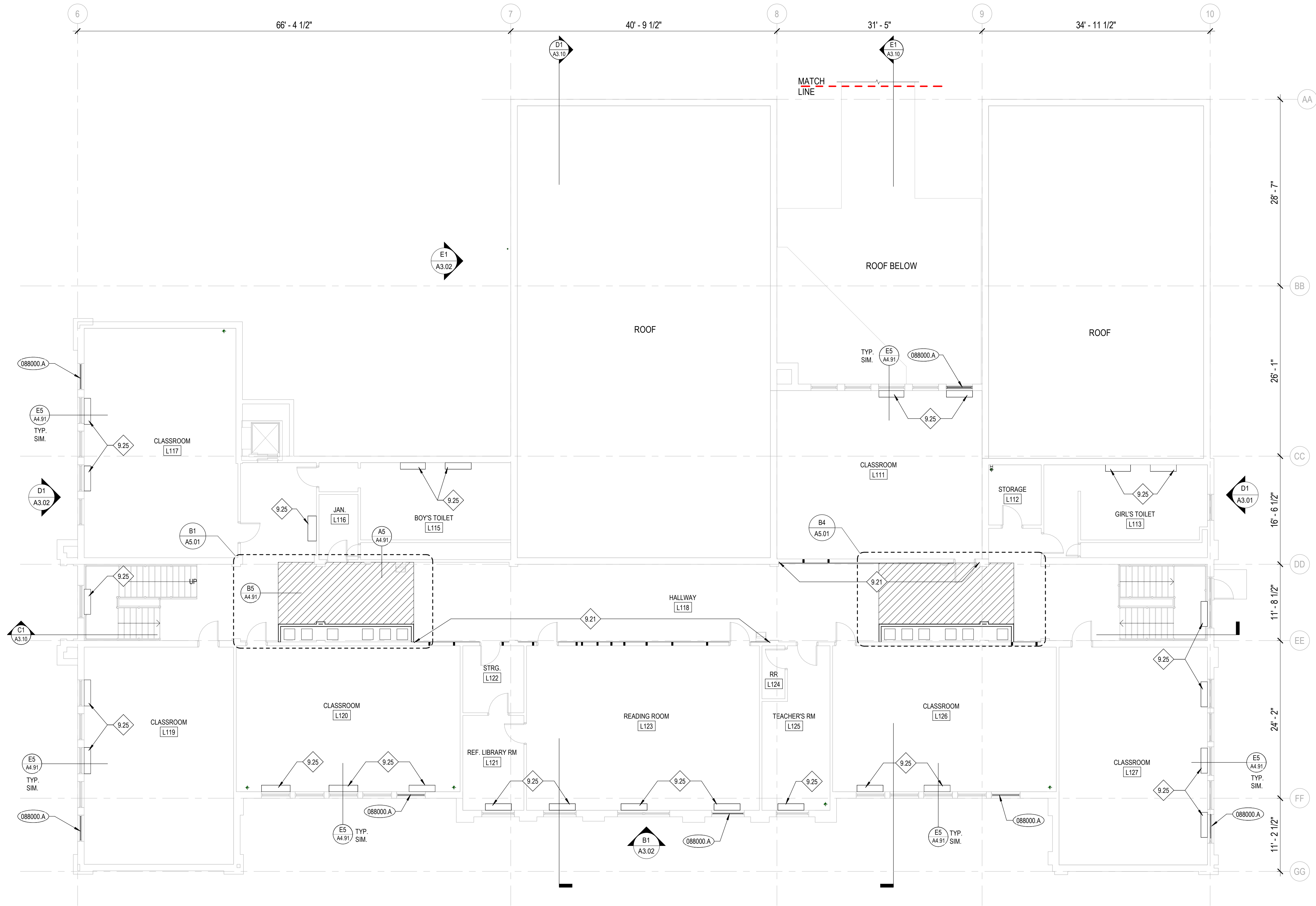
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A2.01b





E1 LEVEL 02 - FLOOR PLAN - AREA 'B'
 A2.02 1/8" = 1'-0"

GENERAL NOTES

- THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- DO NOT SCALE DRAWINGS.
- SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

KEYNOTES

088000.A GLASS INFILL PANEL.

REFERENCE NOTES

9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER. FLOOR TO CEILING TO MATCH EXISTING.

9.25 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL TO MATCH EXISTING. NEW CONTINUOUS BASE AND FLOOR INFILL AS REQUIRED TO MATCH EXISTING.

LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- EXISTING DOOR
- AREA OF FLOOR INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- CARPET INFILL RE: DIVISION 09 IN THE SPECIFICATIONS
- MATCH LINE

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Sheet:
 LEVEL 02 - FLOOR PLAN - AREA 'B'

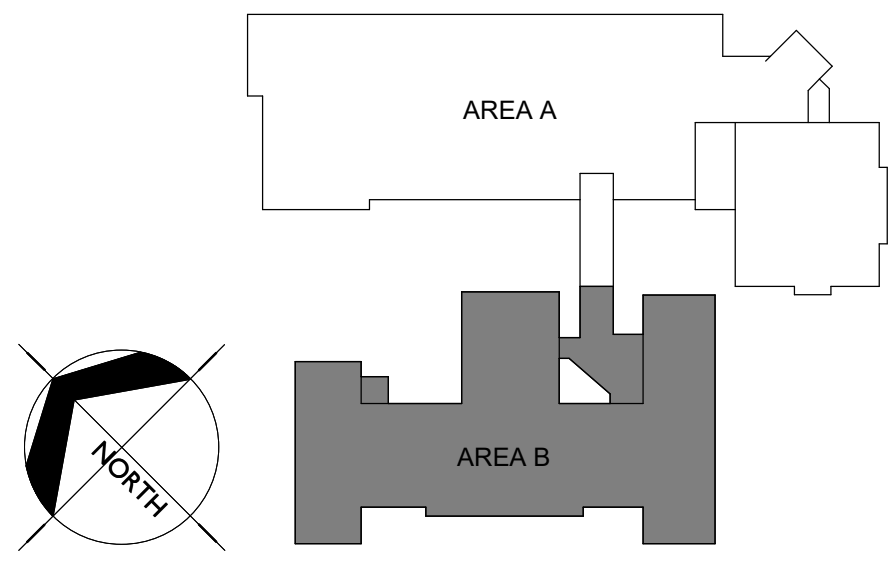
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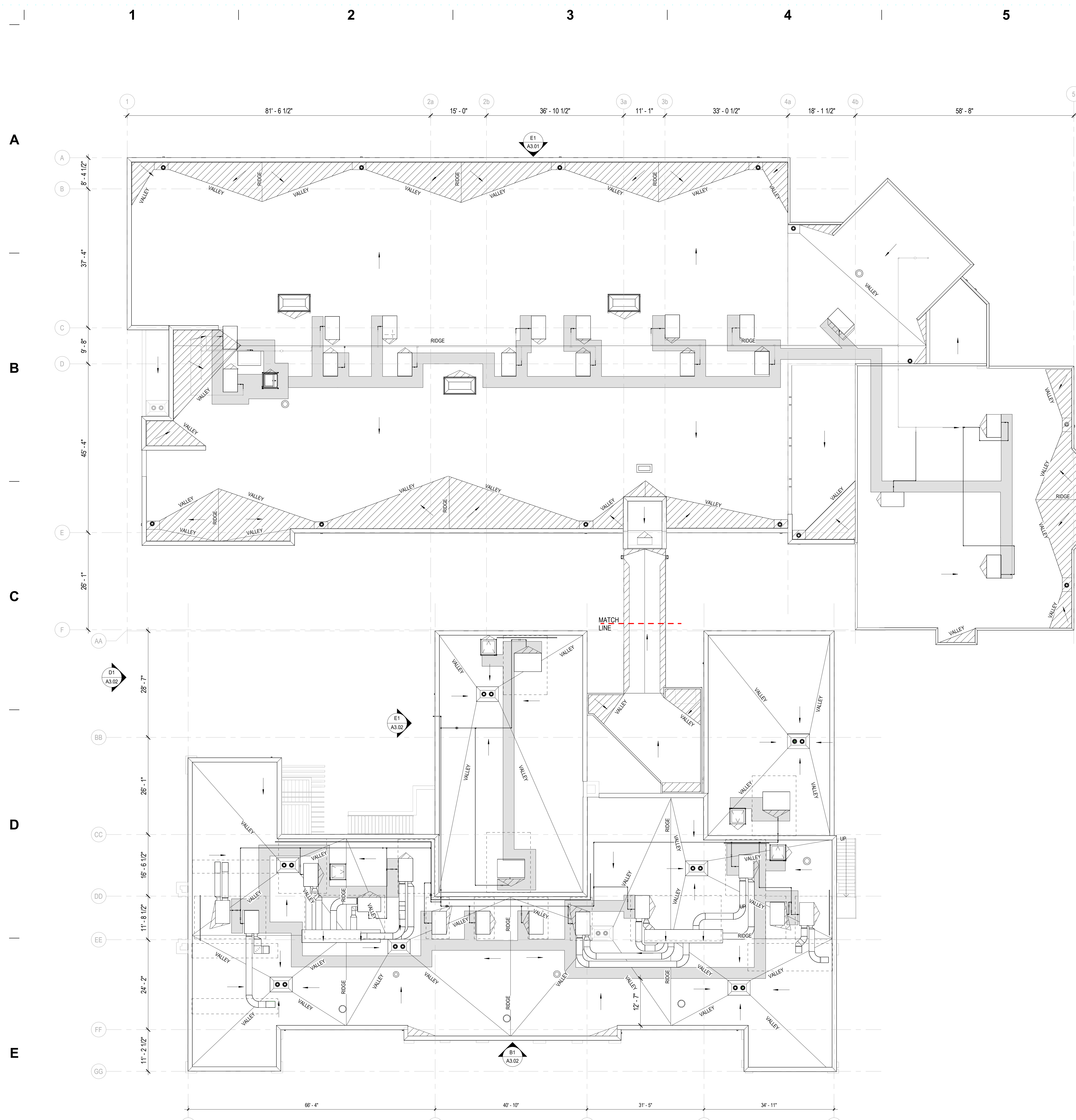
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PROFESSIONAL ARCHITECT
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 STATE OF IDAHO
 BRIAN F. COLEMAN

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Sheet No: A2.02





E1 ROOF - COMPOSITE PLAN
 A2.03 3/32" = 1'-0"

GENERAL NOTES

- A. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND NUMBER OF OTHER ROOF PENETRATIONS (I.E. VENT STACKS, VENT PIPES, CONDUIT PENETRATIONS, ETC.). FLASH ALL PENETRATIONS WEATHER TIGHT. COORDINATE WITH ROOF DETAILS.
- B. SLOPE ALL CRICKETS AS SHOWN AT A SLOPE OF 1/2" PER FOOT, EXCEPT WHERE NOTED.
- C. PROVIDE BUILT-UP TAPERED INSULATION ROOF CRICKETS AT ALL CURB LOCATIONS TO ALLOW POSITIVE DRAINAGE AND PREVENT PONDING.
- D. COORDINATE ROOF DRAIN SUMP LOCATION AND REQUIRED PENETRATION WITH PLUMBING DRAWINGS.
- E. ALL ROOF MEMBRANE ACCESSORIES SHALL COME FROM THE SAME MANUFACTURER OR FROM A SUPPLIER APPROVED BY THE MEMBRANE MANUFACTURER. ALL ROOF COVERING, MATERIAL AND ACCESSORIES SHALL BE COMPATIBLE.
- F. PREFABRICATED CURBS SHALL BE INSTALLED AND SET LEVEL.
- G. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT AND LOCATION ONLY. ACTUAL REQUIREMENTS AND DIMENSIONS ARE TO BE VERIFIED AND COORDINATED WITH EQUIPMENT, OTHER CONSTRUCTION TRADES, SHOP DRAWINGS AND STRUCTURAL FRAMING.
- H. CONSTRUCTION SHALL BE IN FULL COMPLIANCE WITH ALL CURRENT LOCAL CODES AND REGULATIONS IN EFFECT AT THE TIME OF AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- I. AT AREAS WHERE STRUCTURAL ROOF DECK IS LEVEL, PROVIDE SLOPED INSULATION TO ACHIEVE REQUIRED SLOPE.
- J. DETAILS IN THE PROJECT DRAWING ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT.
- K. REMOVE DAMAGED EXISTING ROOF INSULATION. REPLACE WITH NEW INSULATION, LEVEL WITH EXISTING INSULATION.

LEGEND

- AREA OF TAPERED INSULATION
- RE: ROOF DETAILS FOR ROOF ASSEMBLY
- AREA OF STRUCTURAL ROOF FRAMING MODIFICATIONS - SEE STRUCTURAL
- FLEXIBLE WALKWAY, RE: SPECIFICATION 075423
- ROOF DRAIN SUMP
- ROOF HATCH

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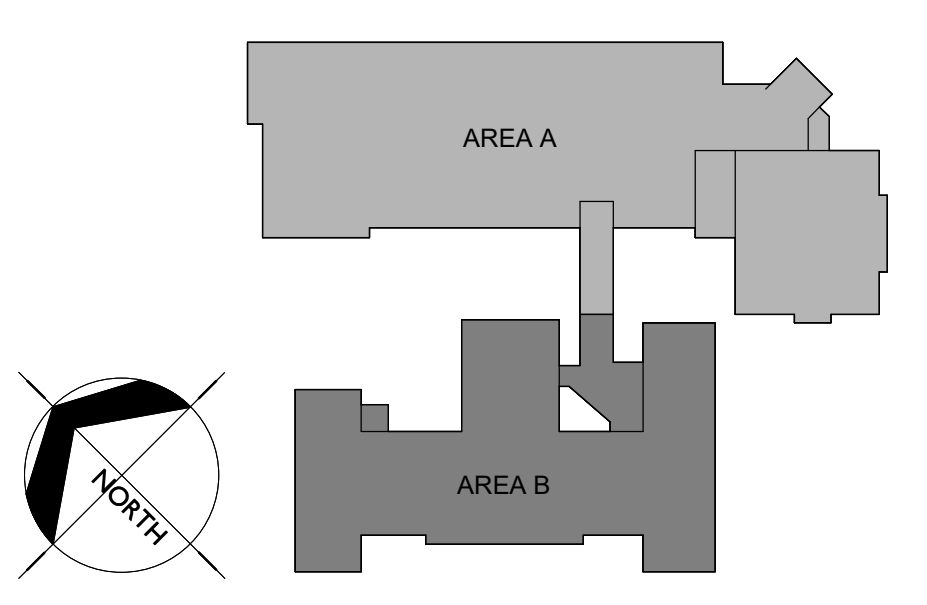
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 ROOF - COMPOSITE PLAN

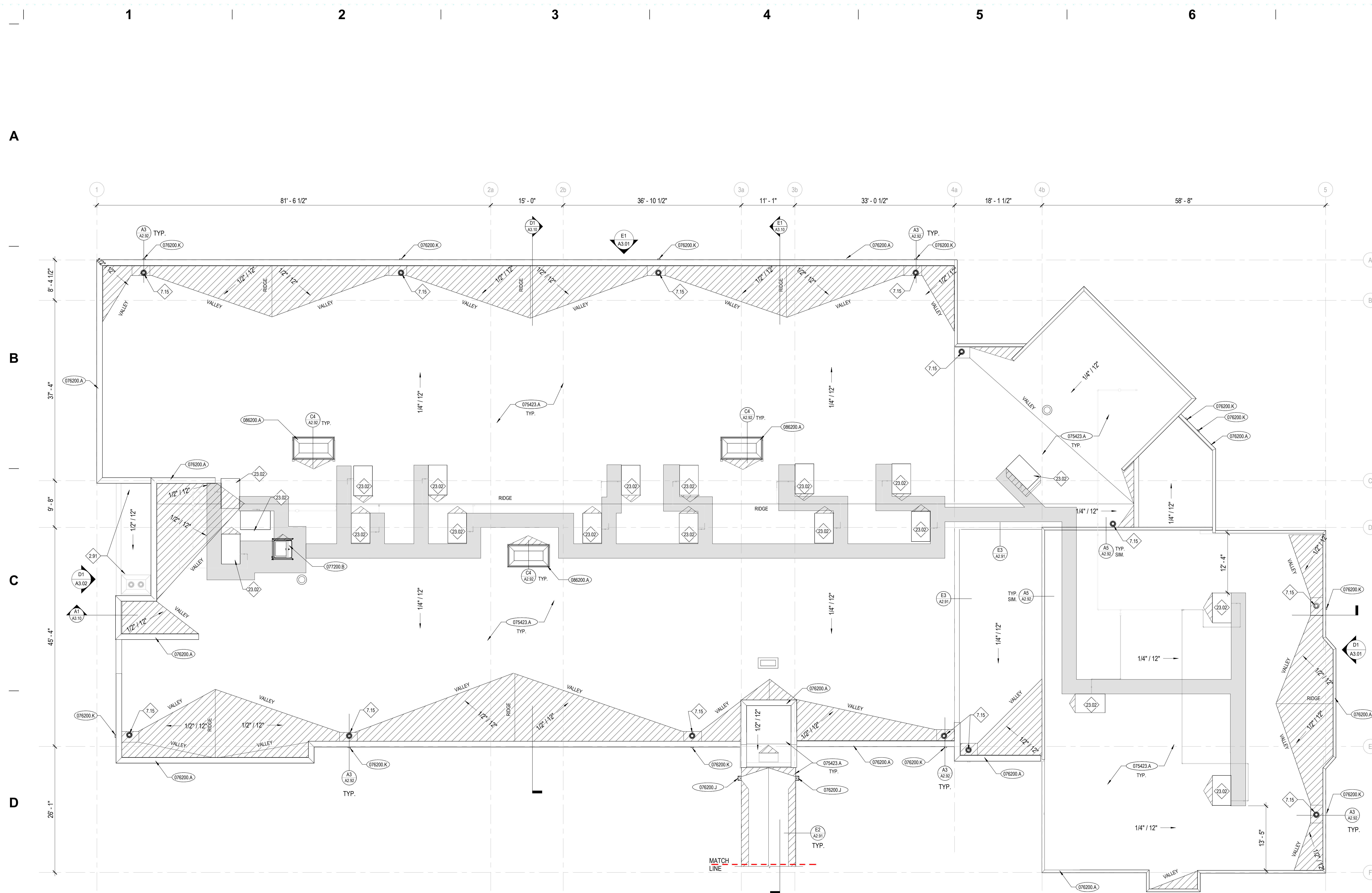
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- GENERAL NOTES**
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND NUMBER OF OTHER ROOF PENETRATIONS (I.E. VENT STACKS, VENT PIPES, CONDUIT PENETRATIONS, ETC.). FLASH ALL PENETRATIONS WEATHER TIGHT. COORDINATE WITH ROOF DETAILS.
 - SLOPE ALL CRICKETS AS SHOWN AT A SLOPE OF 1/2" PER FOOT, EXCEPT WHERE NOTED.
 - PROVIDE BUILT-UP TAPERED INSULATION ROOF CRICKETS AT ALL CURB LOCATIONS TO ALLOW POSITIVE DRAINAGE AND PREVENT PONDING.
 - COORDINATE ROOF DRAIN SUMP LOCATION AND REQUIRED PENETRATION WITH PLUMBING DRAWINGS.
 - ALL ROOF MEMBRANE ACCESSORIES SHALL COME FROM THE SAME MANUFACTURER OR FROM A SUPPLIER APPROVED BY THE MEMBRANE MANUFACTURER. ALL ROOF COVERING MATERIAL AND ACCESSORIES SHALL BE COMPATIBLE.
 - PREFABRICATED CURBS SHALL BE INSTALLED AND SET LEVEL.
 - ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT AND LOCATION ONLY. ACTUAL REQUIREMENTS AND DIMENSIONS ARE TO BE VERIFIED AND COORDINATED WITH EQUIPMENT, OTHER CONSTRUCTION TRADES, SHOP DRAWINGS AND STRUCTURAL FRAMING.
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 - AT AREAS WHERE STRUCTURAL ROOF DECK IS LEVEL, PROVIDE SLOPED INSULATION TO ACHIEVE REQUIRED SLOPE.
 - DETAILS IN THE PROJECT DRAWING ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT.
 - REMOVE DAMAGED EXISTING ROOF INSULATION. REPLACE WITH NEW INSULATION, LEVEL WITH EXISTING INSULATION.

- KEYNOTES**
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
 - 076200.A PARAPET COPING
 - 076200.J DOWNSPOUT
 - 076200.K OVERFLOW SCUPPER
 - 077200.B ROOF HATCH
 - 086200.A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY

- REFERENCE NOTES**
- 2.91 EXISTING TPO ROOF AND DRAIN TO REMAIN AND BE PROTECTED.
 - 7.15 ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
 - 23.02 MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

- LEGEND**
- AREA OF TAPERED INSULATION
 - RE: ROOF DETAILS FOR ROOF ASSEMBLY
 - AREA OF STRUCTURAL ROOF FRAMING MODIFICATIONS - SEE STRUCTURAL. REPLACE RIGID INSULATION BOARD TO PROVIDE A MINIMUM 5" THICKNESS AND SLOPES INDICATED.
 - FLEXIBLE WALKWAY. RE: SPECIFICATION 075423
 - ROOF DRAIN SUMP
 - ROOF HATCH

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ROOF - AREA 'A'

E1 ROOF - AREA 'A'
 A2.03a 1/8" = 1'-0"

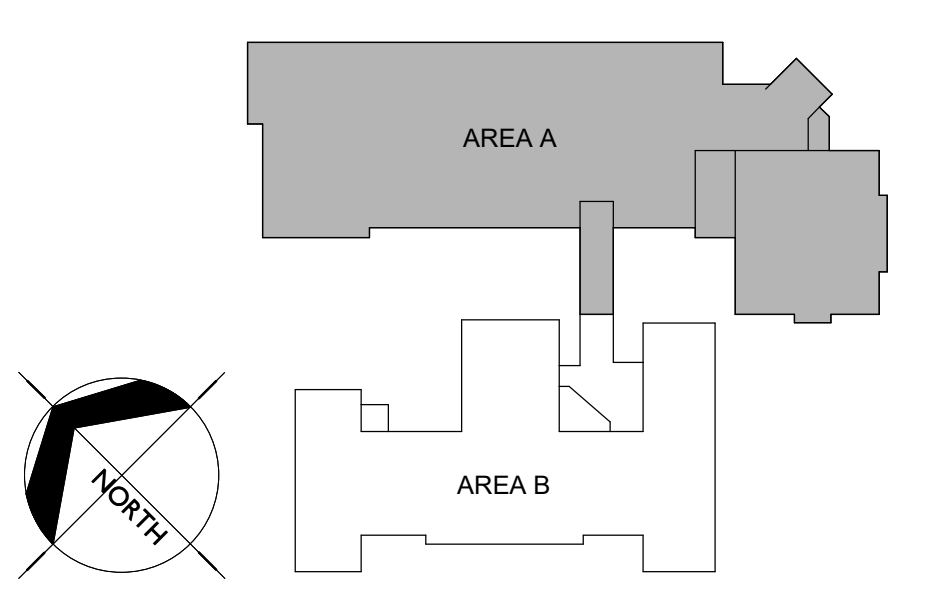
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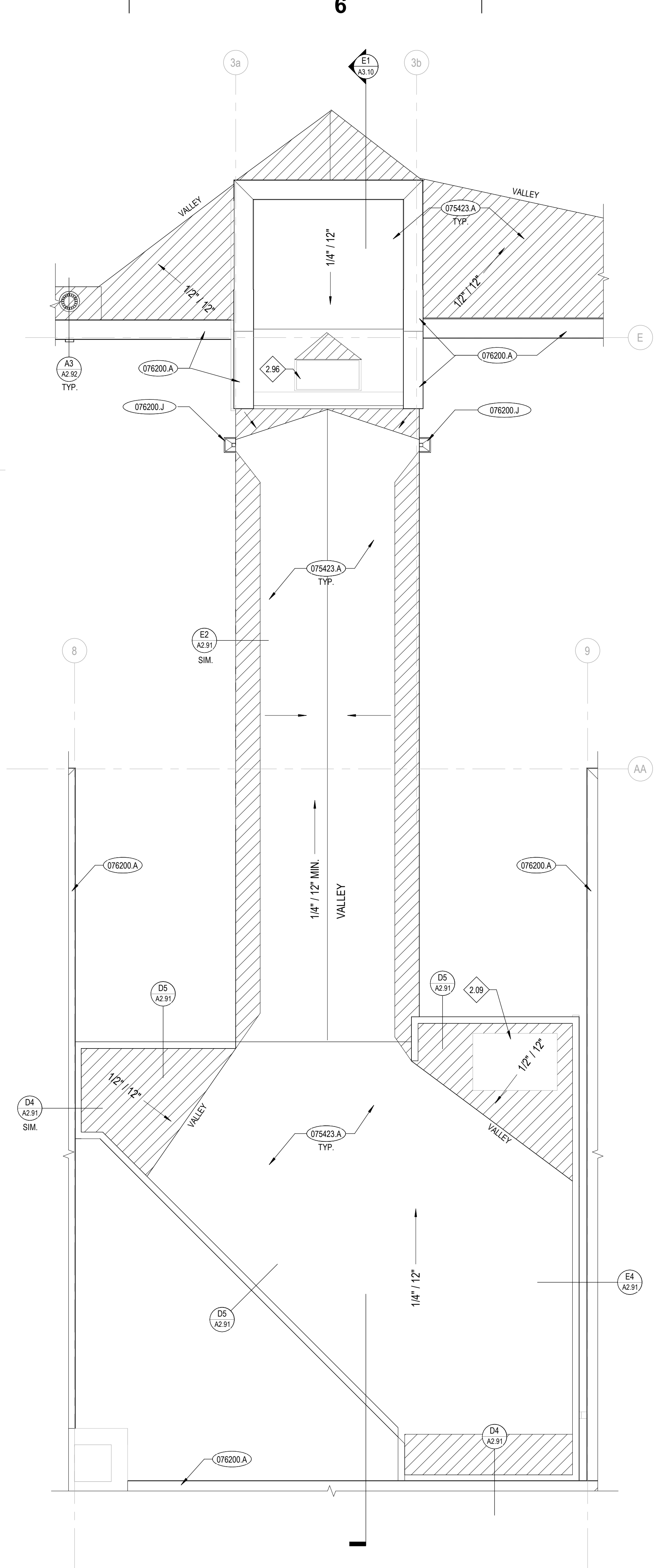
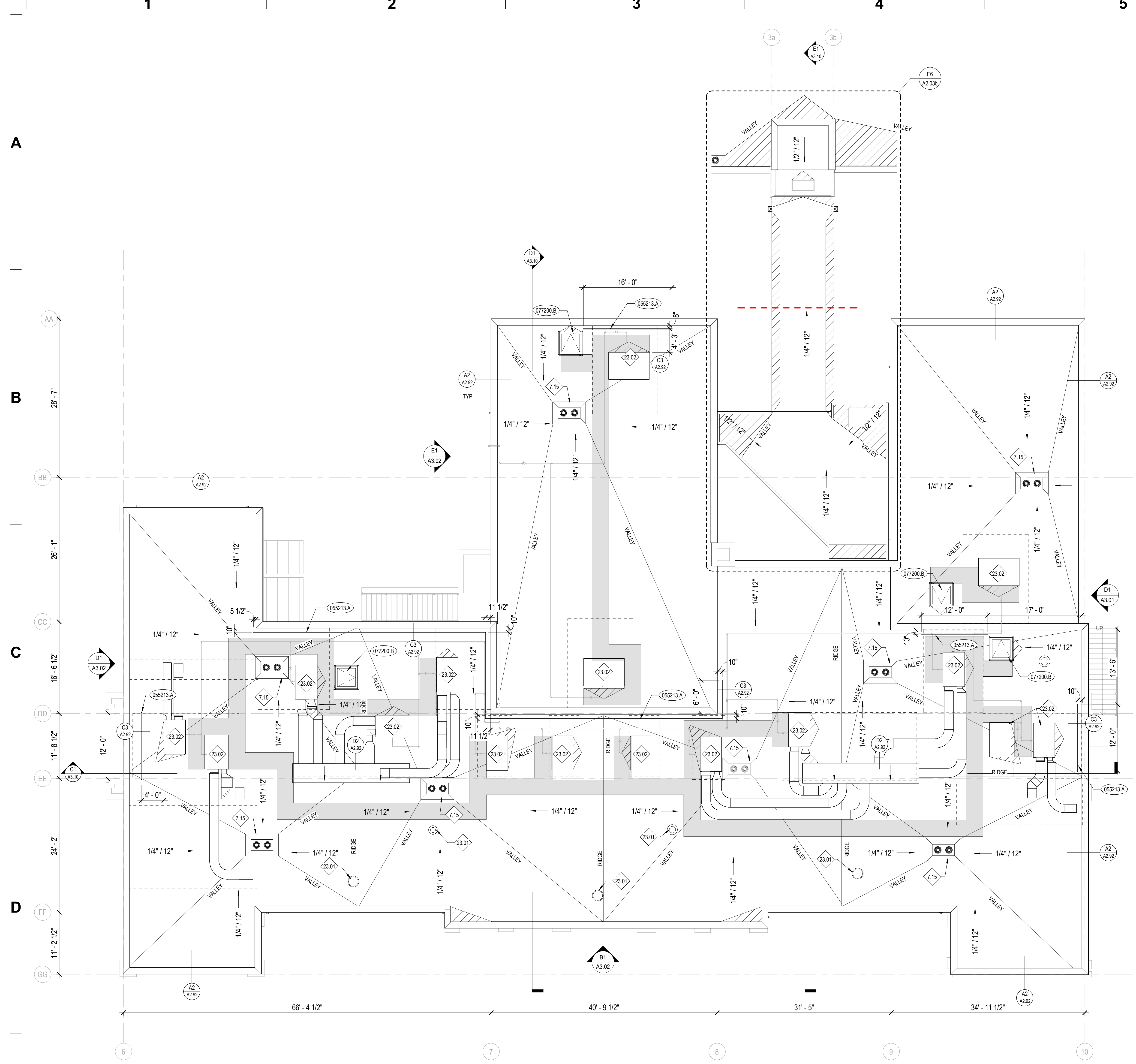
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A2.03a





- GENERAL NOTES**
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND NUMBER OF OTHER ROOF PENETRATIONS (E.G. VENT STACKS, VENT PIPES, CONDUIT PENETRATIONS, ETC.). FLASH ALL PENETRATIONS WEATHER TIGHT. COORDINATE WITH ROOF DETAILS.
 - SLOPE ALL CRICKETS AS SHOWN AT A SLOPE OF 1/2" PER FOOT, EXCEPT WHERE NOTED.
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 - DETAILS IN THE PROJECT DRAWING ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT.
 - REMOVE DAMAGED EXISTING ROOF INSULATION. REPLACE WITH NEW INSULATION, LEVEL WITH EXISTING INSULATION.

- KEYNOTES**
- 05213.A STEEL GAUDDRAL
 - 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
 - 076200.A PARAPET CORNING
 - 076200.J DOWNSPOLT
 - 077200.B ROOF HATCH

- REFERENCE NOTES**
- 2.09 EXISTING MECHANICAL UNIT TO REMAIN. PRESERVE AND PROTECT.
 - 2.96 EXISTING SKYLIGHT TO REMAIN AND BE PROTECTED.
 - 7.15 ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
 - 23.01 COORDINATE WITH MECHANICAL DRAWINGS.
 - 23.02 MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

- LEGEND**
- AREA OF TAPERED INSULATION
 - RE: ROOF DETAILS FOR ROOF ASSEMBLY
 - AREA OF STRUCTURAL ROOF FRAMING MODIFICATIONS - SEE STRUCTURAL. REPLACE RIGID INSULATION BOARD TO PROVIDE A MINIMUM 5" THICKNESS AND SLOPES INDICATED.
 - FLEXIBLE WALKWAY, RE: SPECIFICATION 075423
 - ROOF DRAIN SUMP
 - ROOF HATCH

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ROOF - AREA 'B'

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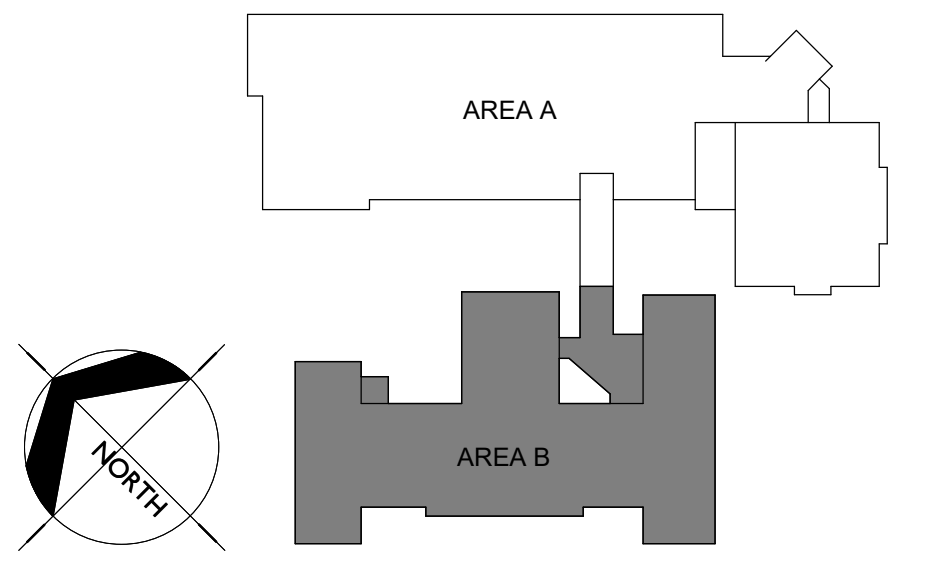
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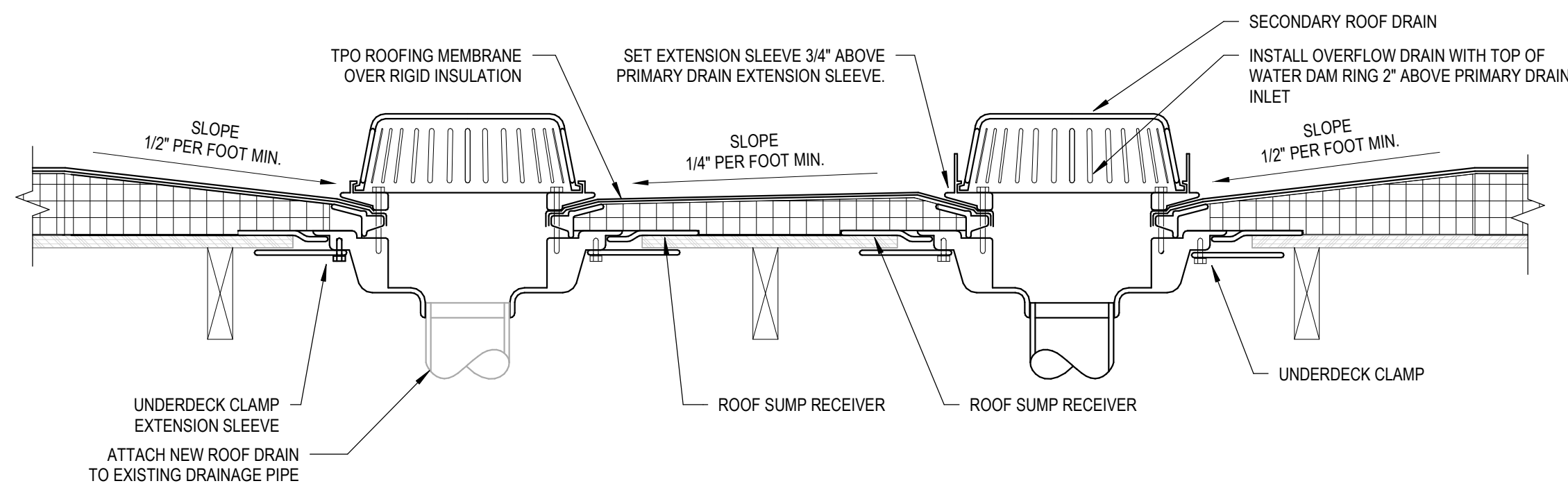
A1 ROOF - AREA 'B'
 A2.03b 1/8" = 1'-0"

E6 ENLARGED ROOF PLAN
 A2.03b 1/4" = 1'-0"



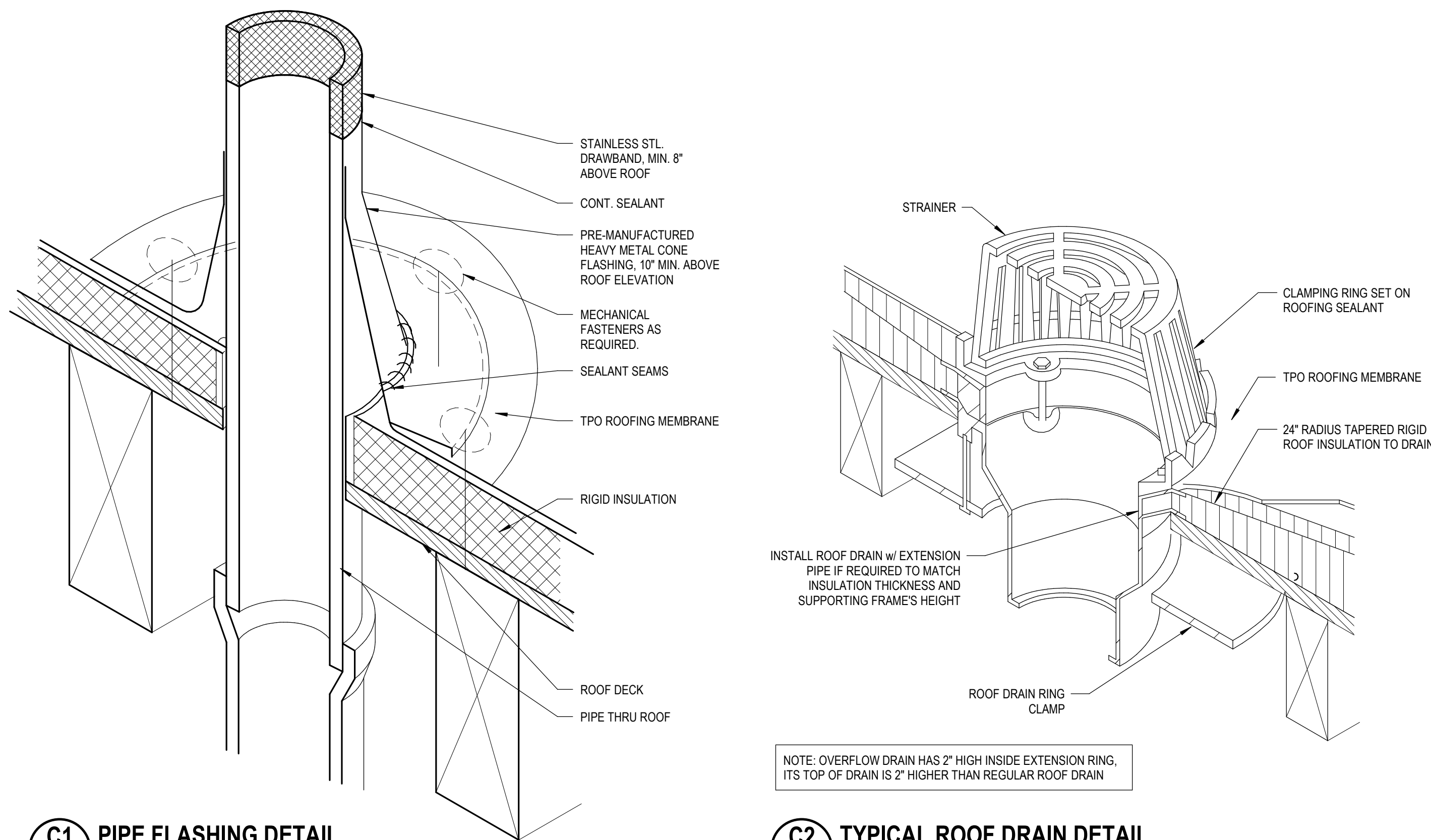
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A1 ROOF DRAIN DETAIL (BASIC)
A2.91 1 1/2" = 1'-0"

B

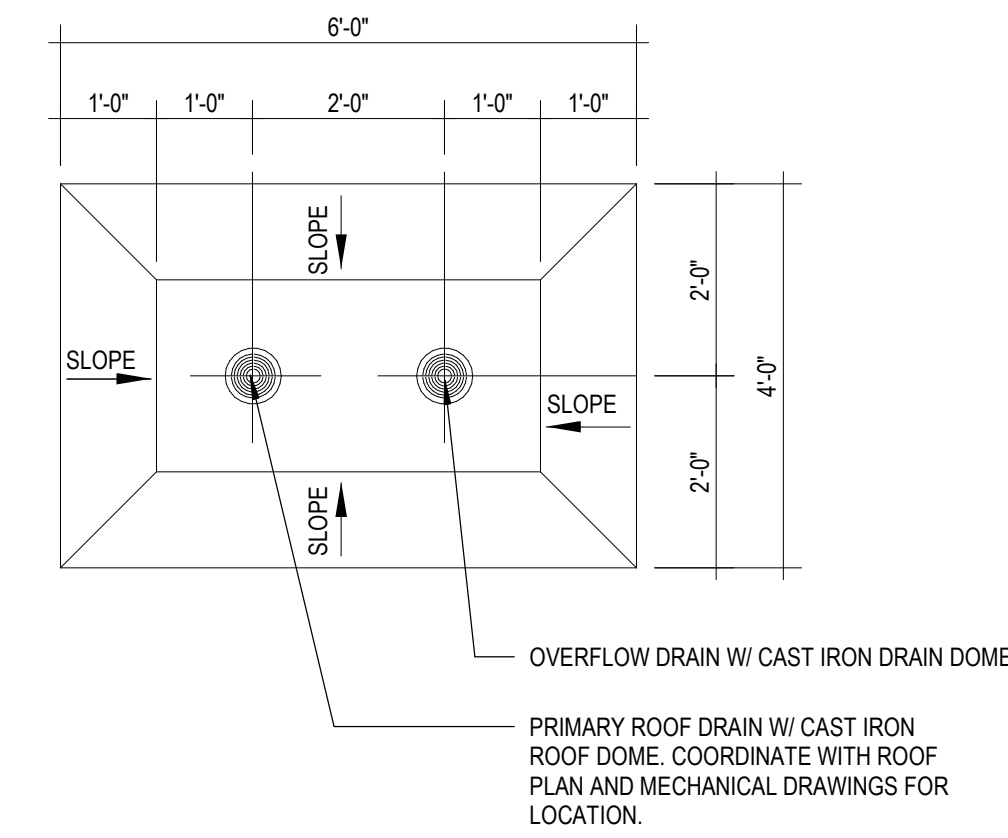


C1 PIPE FLASHING DETAIL
A2.91 6\"/>

C2 TYPICAL ROOF DRAIN DETAIL
A2.91 3\"/>

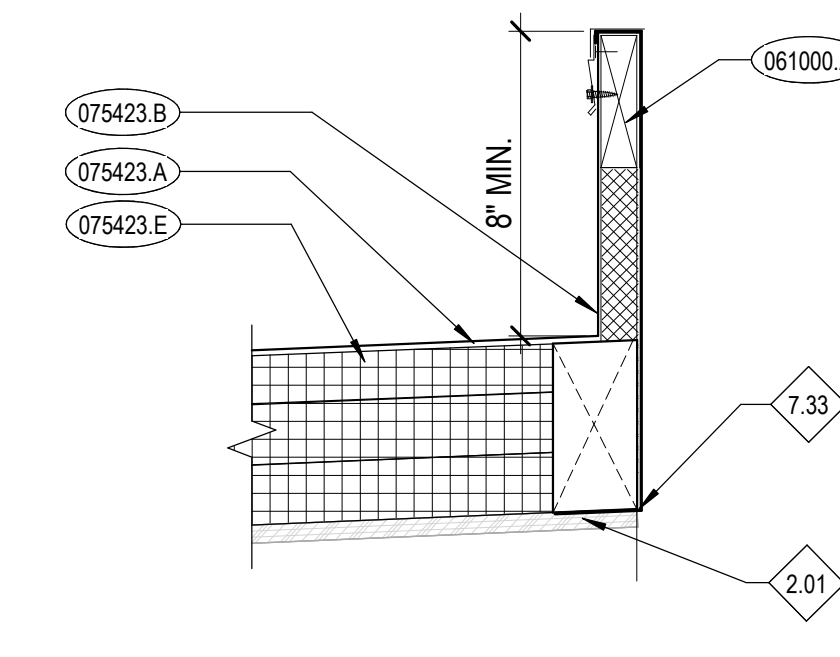
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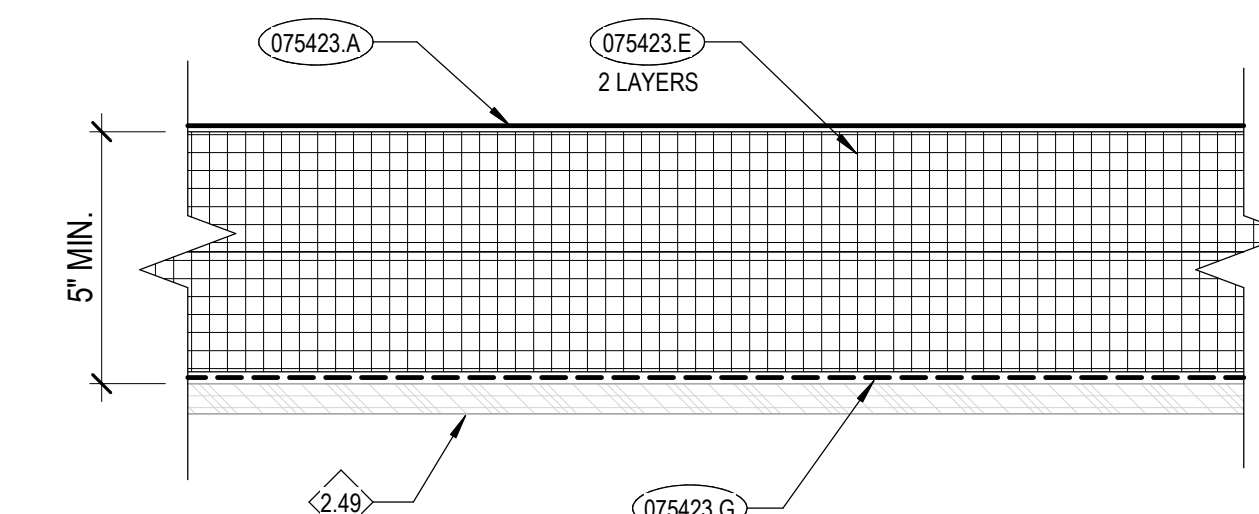
A3 ROOF SUMP PLAN
A2.91 1/2" = 1'-0"

4



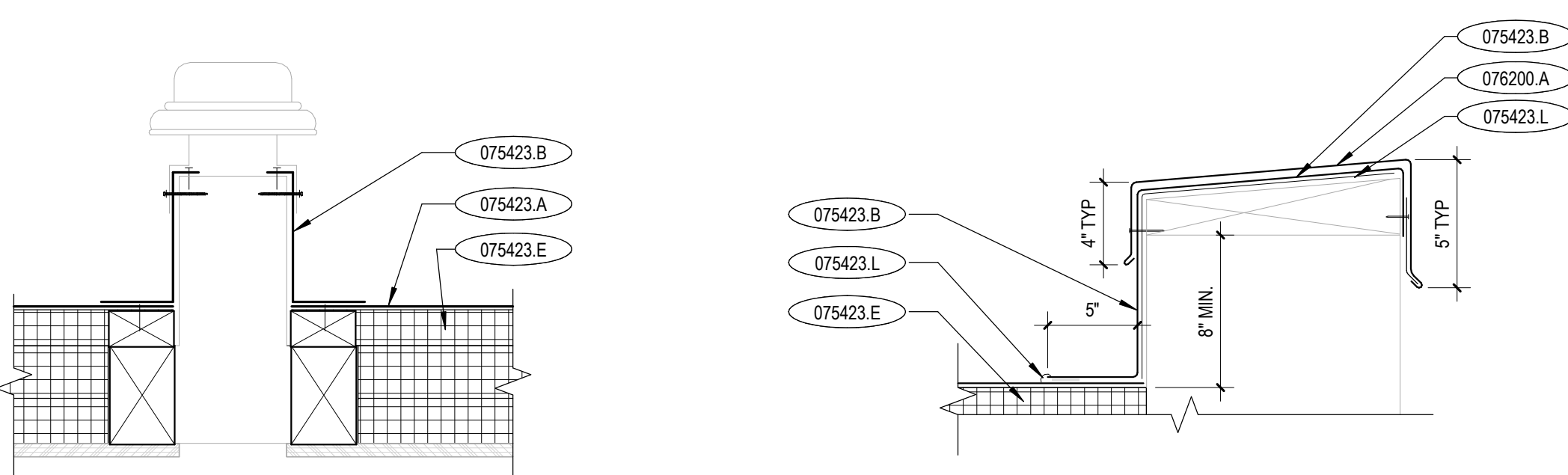
A4 TYPICAL CURB DETAIL
A2.91 1 1/2" = 1'-0"

6



A6 ROOF ASSEMBLY - NEW INSULATION
A2.91 3\"/>

D



D1 EXHAUST FAN DETAIL
A2.91 1 1/2" = 1'-0"

D2 TYPICAL PARAPET COPING
A2.91 1 1/2" = 1'-0"

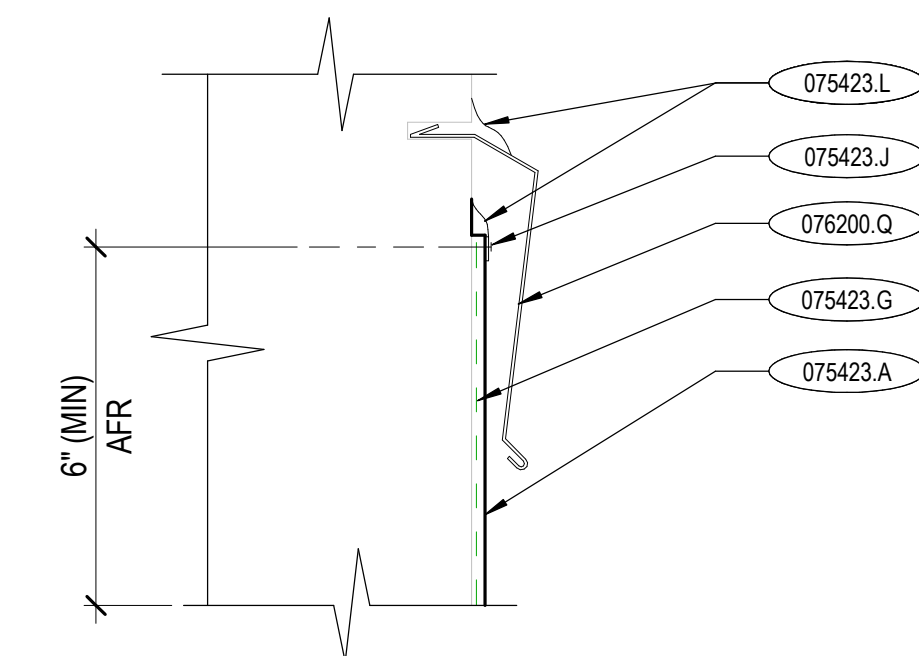
D3 PIPE SUPPORT DETAIL
A2.91 1 1/2" = 1'-0"

D4 ROOF PARAPET @ WALL
A2.91 1 1/2" = 1'-0"

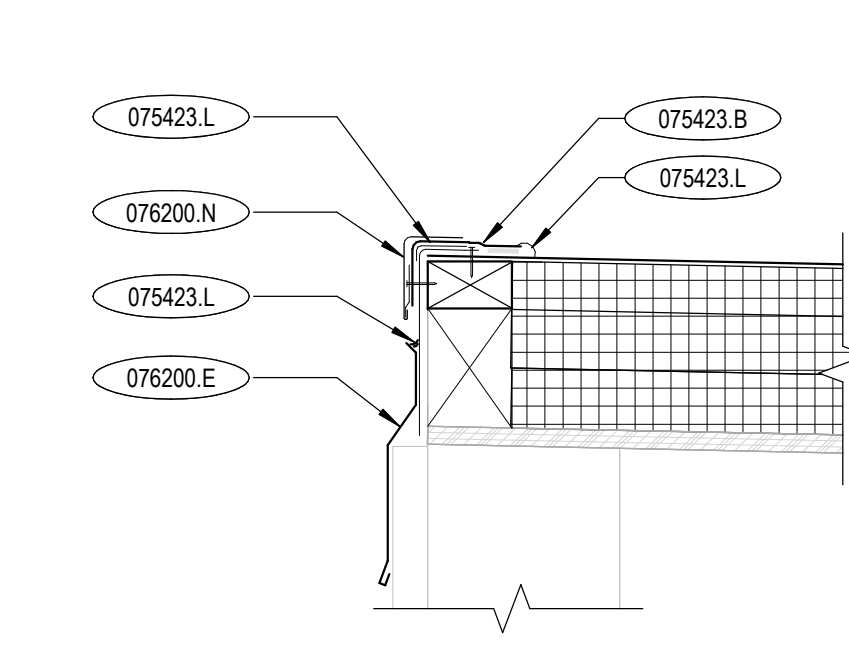
D5 ROOF PARAPET
A2.91 1 1/2" = 1'-0"

D6 TYP. COPING SEAM DETAIL
A2.91 6\"/>

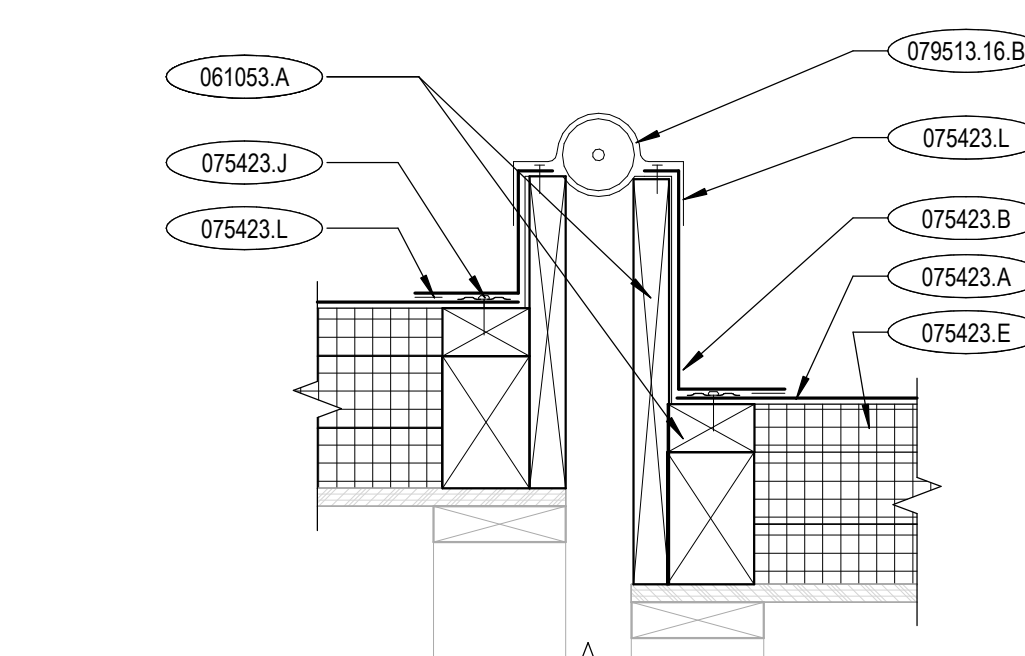
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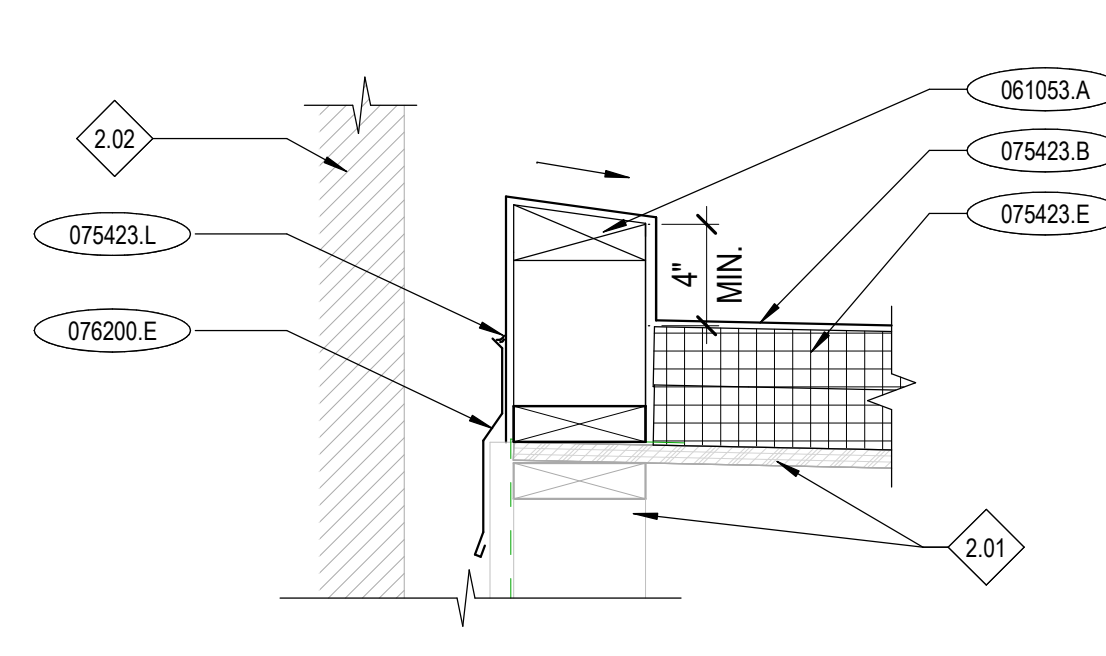
E1 ROOF VERTICAL TERM @ MASONRY
A2.91 3\"/>



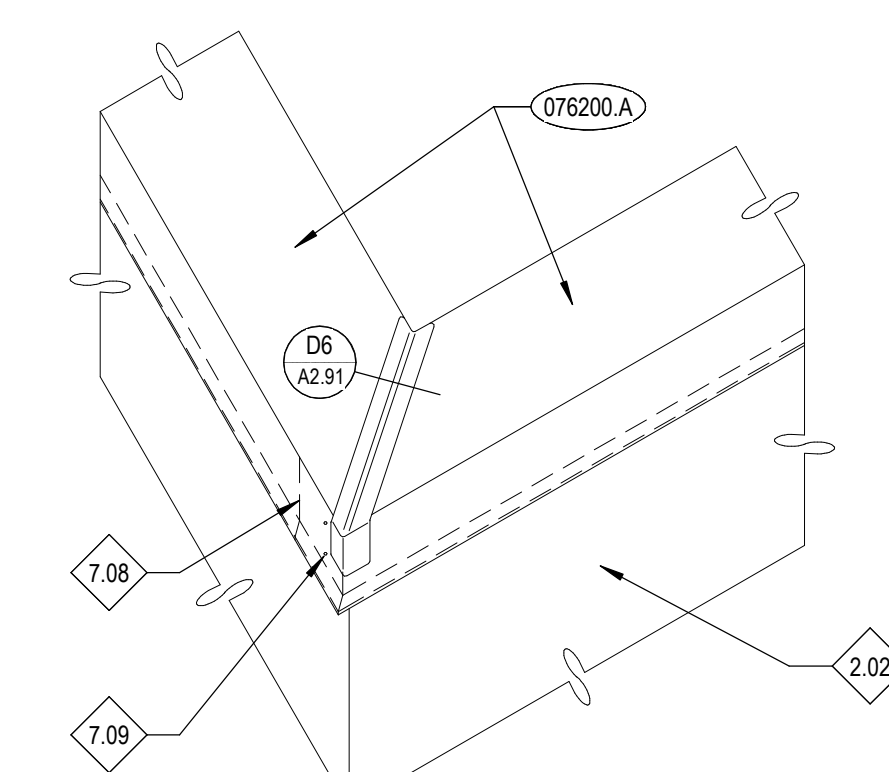
E2 ROOF EDGE DETAIL @ TPO
A2.91 1 1/2" = 1'-0"



E3 ROOF EXPANSION JOINT
A2.91 1 1/2" = 1'-0"



E4 ROOF PARAPET NEXT TO WALL
A2.91 1 1/2" = 1'-0"



E5 TYPICAL CORNER COPING DETAIL
A2.91 1 1/2" = 1'-0"

GENERAL NOTES

- A. ALL ROOF PENETRATIONS SHALL BE FLASHED AND SEALED PER ROOF MANUFACTURER'S RECOMMENDATION.
- B. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR ALL ROOF PENETRATION SIZES AND LOCATIONS.
- C. ALL METAL ROOF FLASHING DETAILS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND REVIEWED BY THE ARCHITECT FOR DESIGN INTENT.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. DO NOT SCALE DRAWINGS.

KEYNOTES

061000.A	DIMENSIONAL LUMBER
061053.A	WOOD BLOCKING/NAILER
075423.A	THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
075423.B	TPO SHEET FLASHING
075423.E	ROOF INSULATION
075423.G	VAPOR BARRIER
075423.J	FASTENER AND PLATE
075423.L	ROOFING MANUFACTURER'S RECOMMENDED SEALANT
075423.O	MANUFACTURED ROOF PAD
075423.Q	ROOFING MANUFACTURER'S RECOMMENDED BONDING ADHESIVE
076200.A	PARAPET COPING
076200.C	METAL FLASHING & TRIM
076200.E	FLASHING AND DRIP EDGE
076200.N	ROOF EDGE FLASHING
076200.Q	MASONRY-TYPE REGLET & COUNTERFLASHING
076200.Z	CLEAT
077200.B	ROOF HATCH
078613.16.B	ROOF TO ROOF EXPANSION JOINT

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.02 PRESERVE & PROTECT EXISTING BRICK WALL.
- 2.49 EXISTING SHEATHING AND UNDERLAYMENT.
- 7.08 COPING END CLOSURE. PROVIDE FOLDED TAB UNDER COPING FACE AS SHOWN
- 7.09 LINE OF FLASHING UNDERLAP BELOW
- 7.33 PREFABRICATED OR FIELD INSTALLED & INSULATED METAL CURB ANCHORED TO STRUCTURE
- 7.34 PIPE CLAMP. FASTEN SECURELY TO WOOD BLOCK.
- 7.35 PIPE. COORDINATE WITH MECHANICAL DRAWINGS.

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Sheet:
ROOF DETAILS

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BRIAN F. COLEMAN

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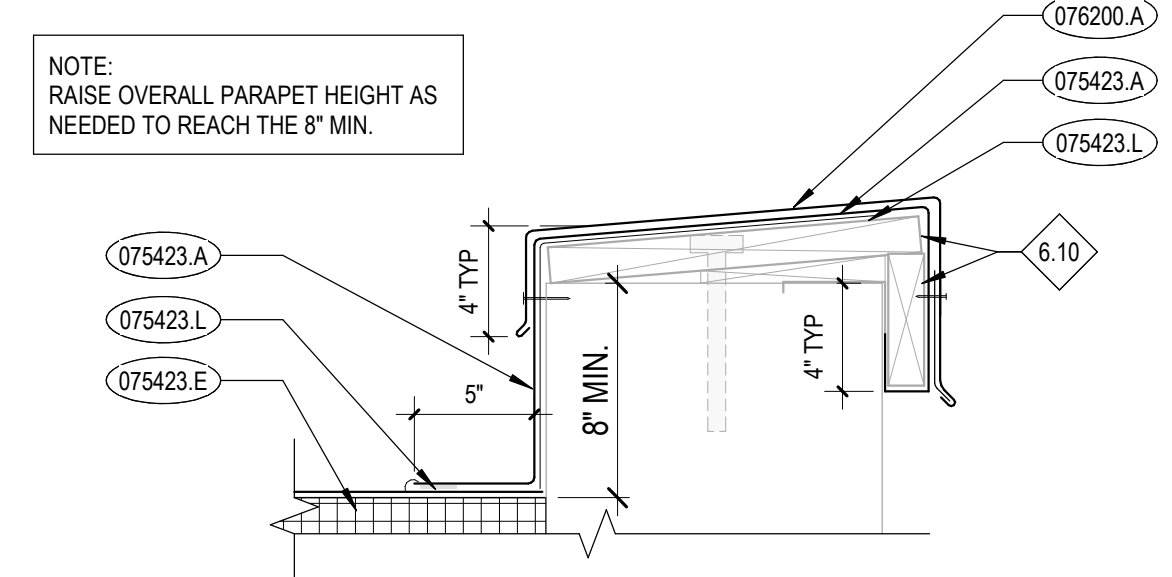
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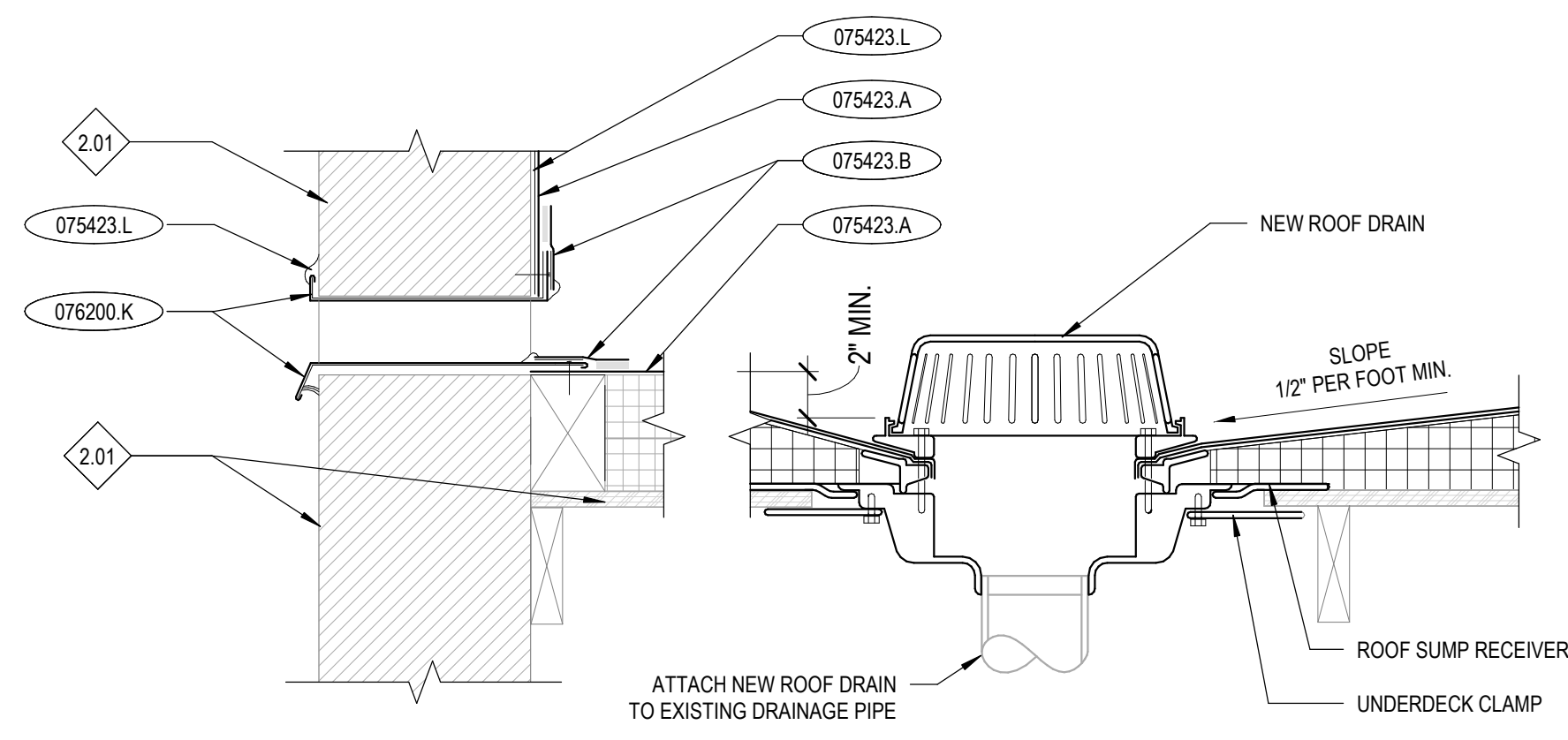
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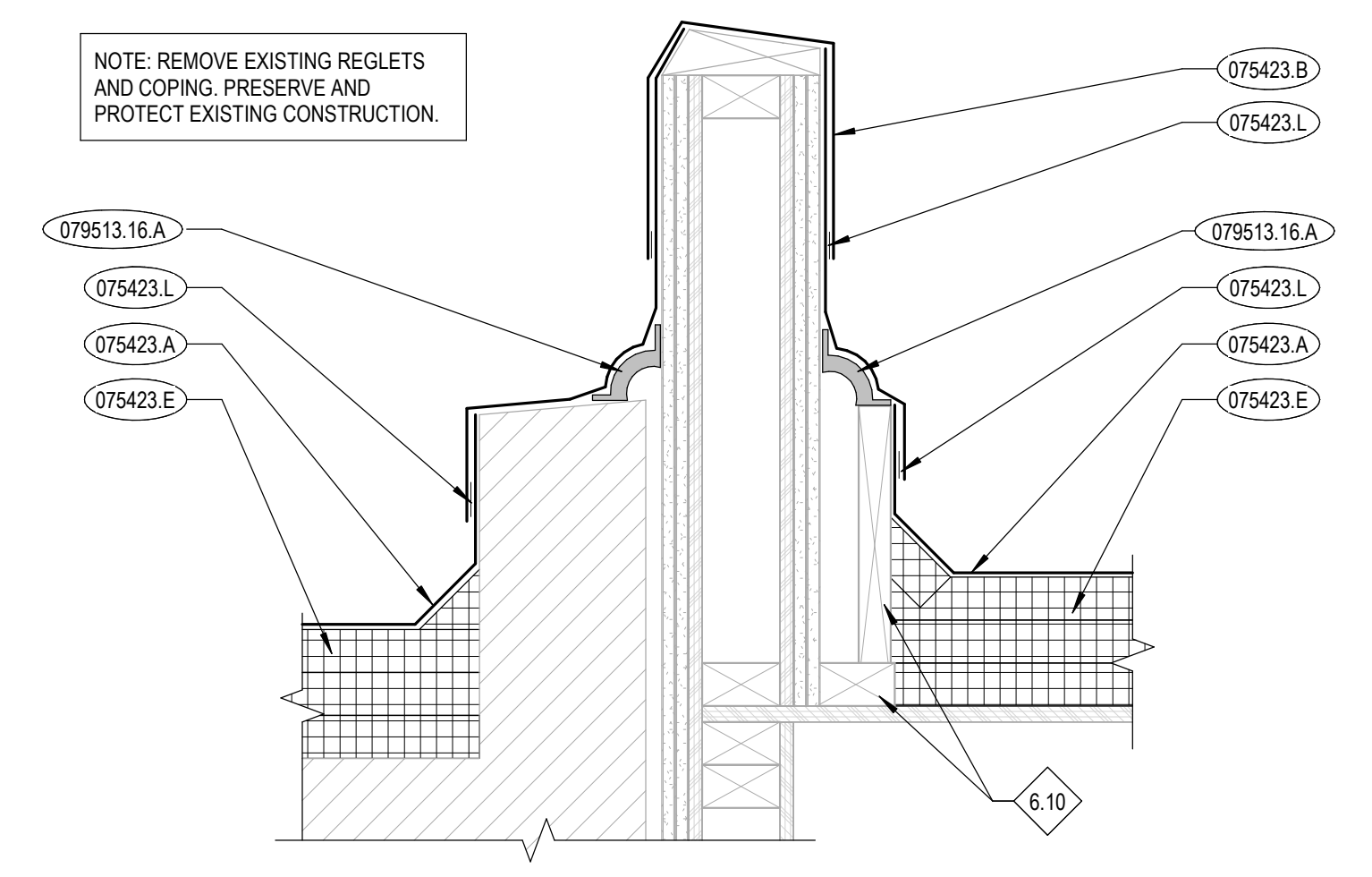
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A2 PARAPET COPING W/ EDGE
A2.92 1 1/2" = 1'-0"

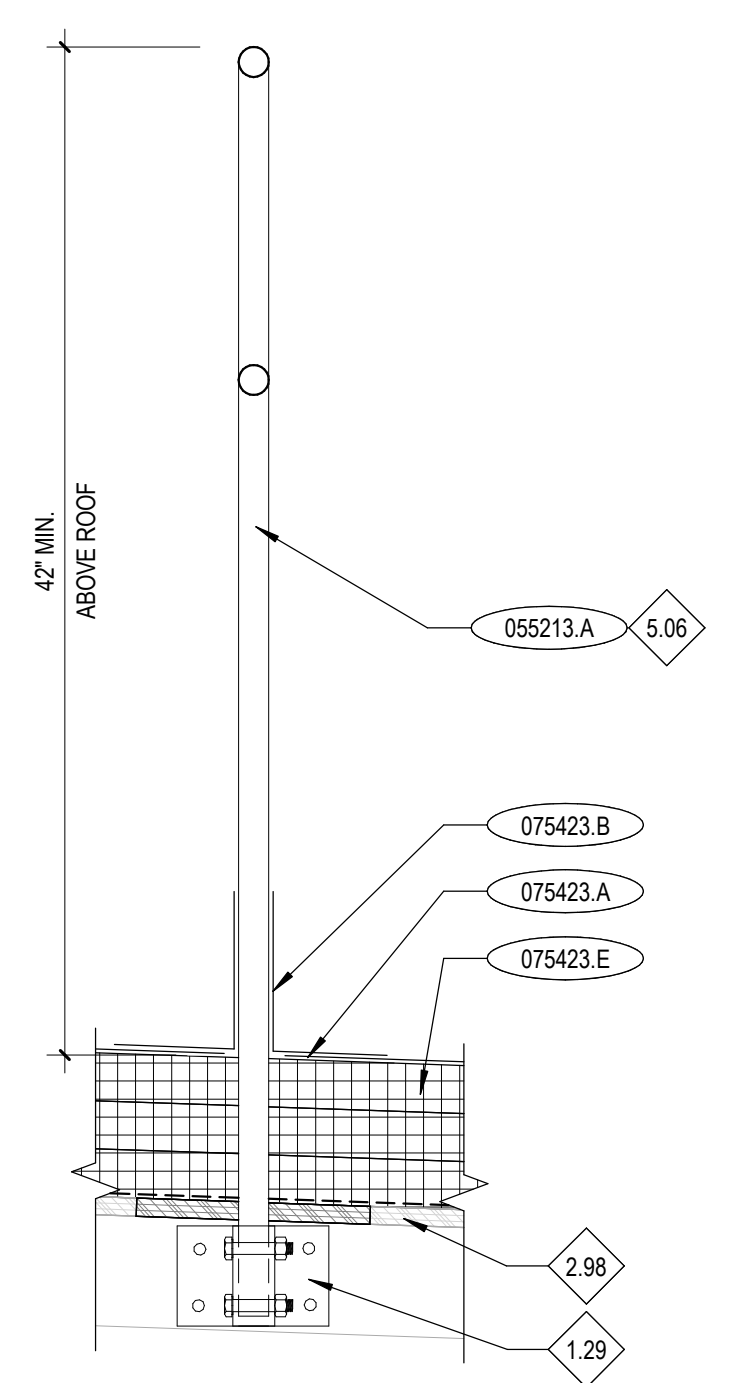
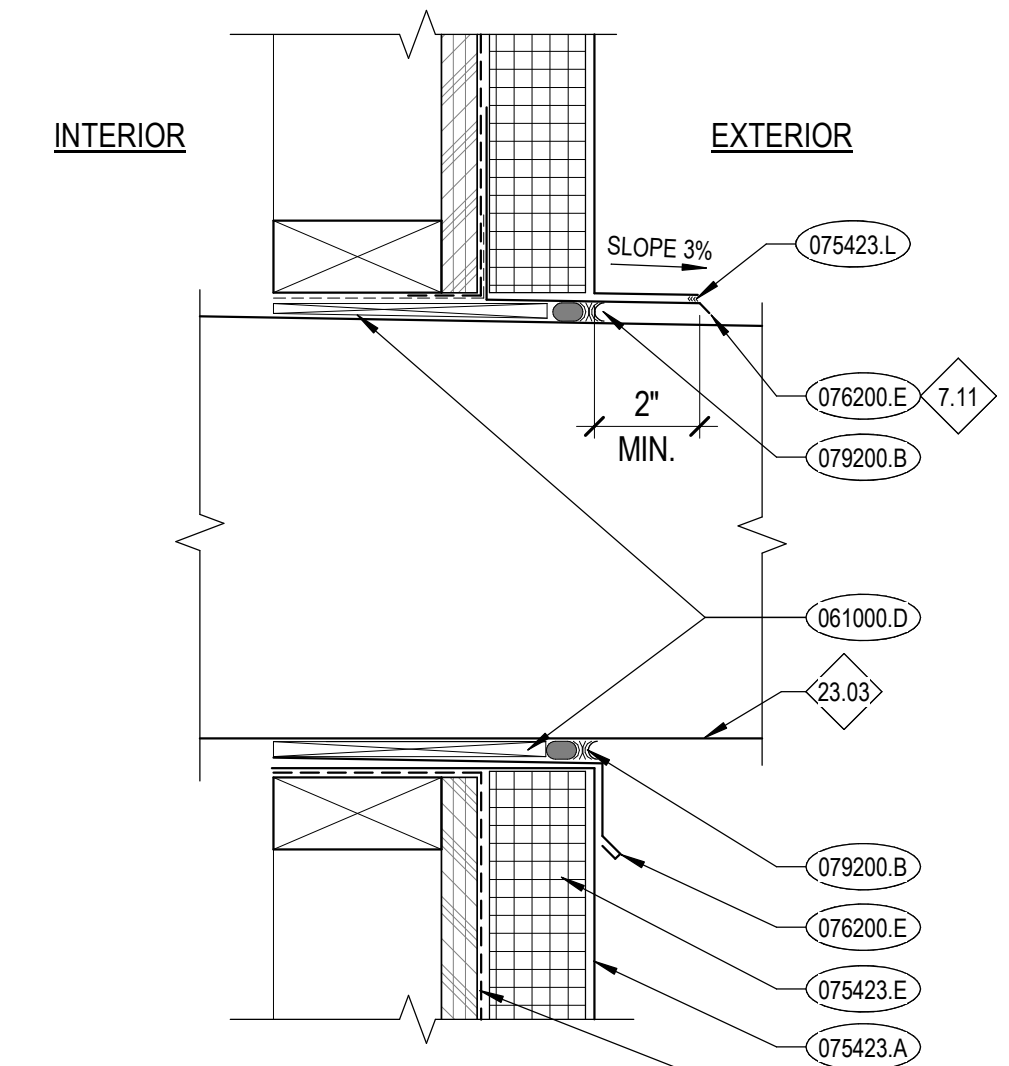
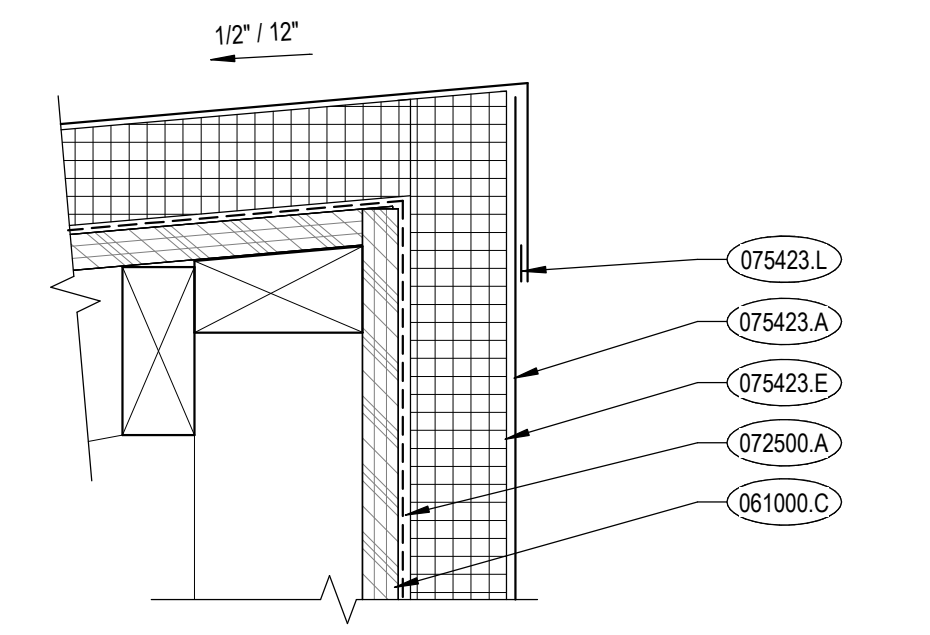


A3 THROUGH WALL SCUPPER
A2.92 1 1/2" = 1'-0"

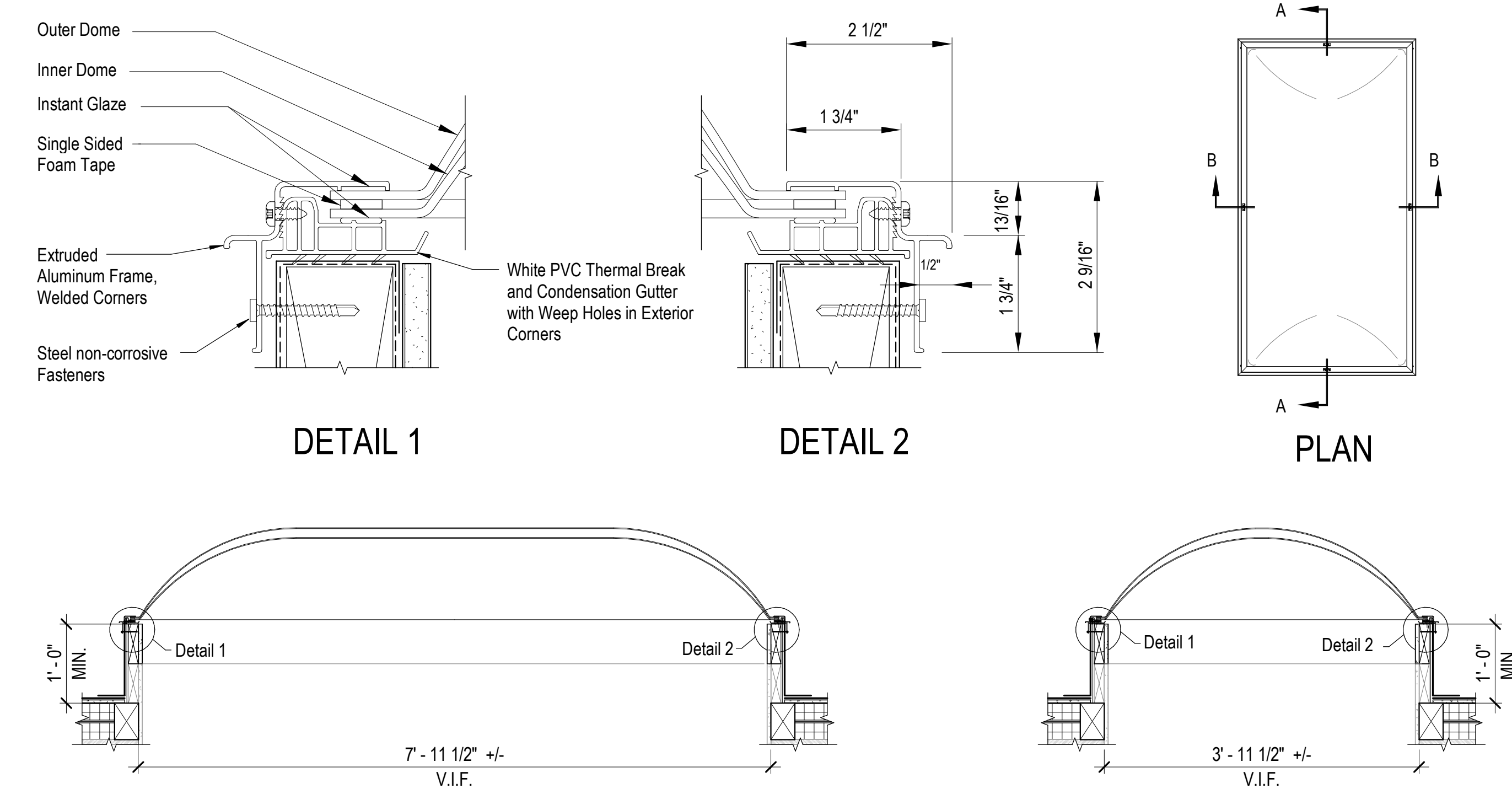


A5 ROOF PARAPET @ FIRE WALL
A2.92 1 1/2" = 1'-0"

B

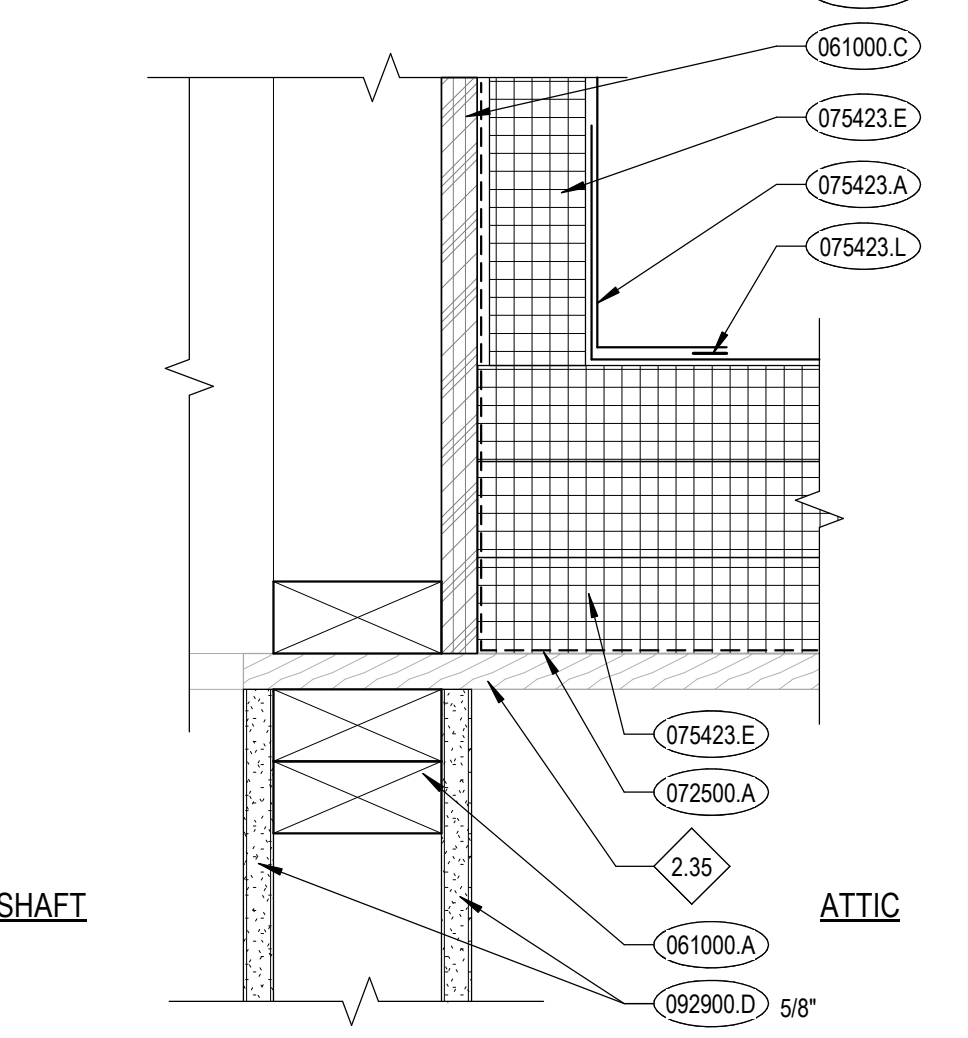


C3 ROOFTOP GAURDRAIL
A2.92 1 1/2" = 1'-0"



C4 TYPICAL SKYLIGHT DETAIL
A2.92 3/4" = 1'-0"

C



D2 MECH DOGHOUSE @ ROOF
A2.92 3" = 1'-0"

D

E

GENERAL NOTES

- A. ALL ROOF PENETRATIONS SHALL BE FLASHED AND SEALED PER ROOF MANUFACTURER'S RECOMMENDATION.
- B. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR ALL ROOF PENETRATION SIZES AND LOCATIONS.
- C. ALL METAL ROOF FLASHING DETAILS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND REVIEWED BY THE ARCHITECT FOR DESIGN INTENT.
- D. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- E. DO NOT SCALE DRAWINGS.

KEYNOTES

- 055213.A STEEL GAURDRAIL
- 061000.A DIMENSIONAL LUMBER
- 061000.C SHEATHING
- 061000.D SHIM AS REQUIRED
- 072500.A WEATHER RESISTIVE BARRIER
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 075423.B TPO SHEET FLASHING
- 075423.E ROOF INSULATION
- 075423.L ROOFING MANUFACTURER'S RECOMMENDED SEALANT
- 076200.A PARAPET COPING
- 076200.E FLASHING AND DRIP EDGE
- 076200.K OVERFLOW SCUPPER
- 076200.B JOINT SEALANT
- 07613.16.A ROOF TO WALL EXPANSION JOINT
- 082900.D GYPSUM BOARD TYPE X.

REFERENCE NOTES

- 1.29 SEE STRUCTURAL DRAWINGS FOR MOUNTING DETAIL.
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.35 EXISTING ROOF DECK
- 2.98 EXISTING ROOF FRAMING
- 5.06 1-1/2" XS PIPE TOP AND MID RAILS. GALVANIZED AND PAINTED GRAY.
- 6.10 EXISTING BLOCKING. REPLACE AS REQUIRED.
- 7.11 22 GA GALV STEEL FLASHING. EXTEND FLASHING MINIMUM 1" HORIZONTALLY PAST METAL DUCT.
- 23.03 DUCT. COORDINATE WITH MECHANICAL DRAWINGS.

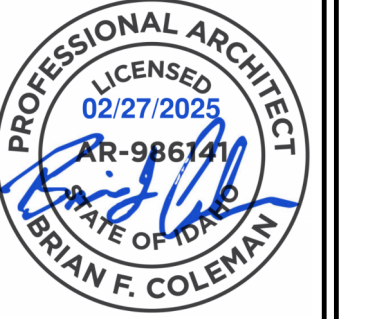
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Sheet:
ROOF DETAILS

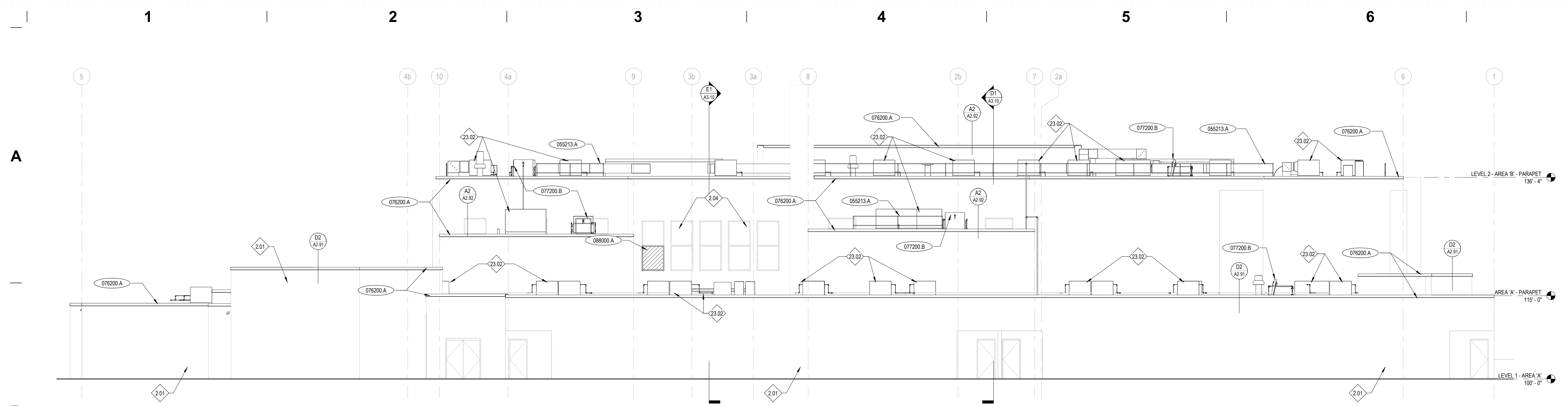
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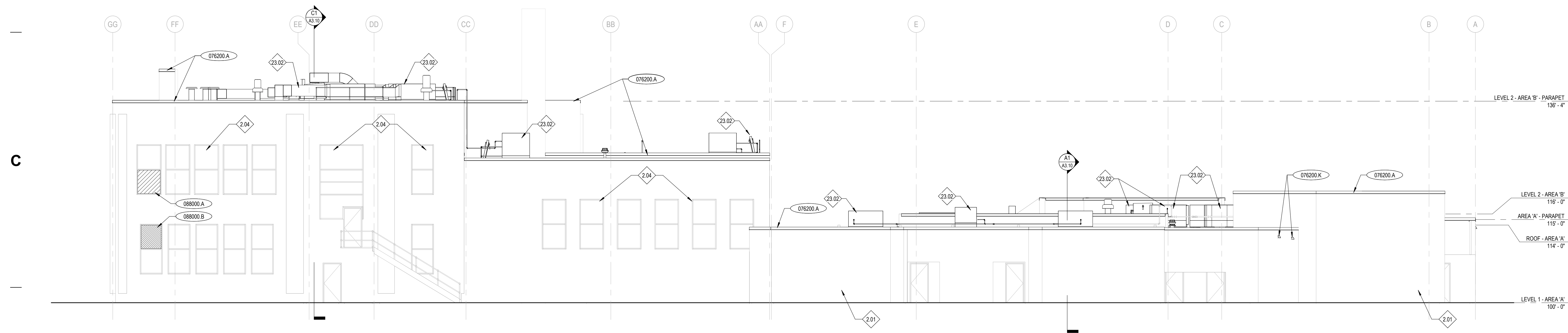
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Sheet No:
A2.92



E1 BUILDING ELEVATION - NORTH
A3.01 1/8" = 1'-0"



D1 BUILDING ELEVATION - EAST
A3.01 1/8" = 1'-0"

GENERAL NOTES

- A. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- B. DO NOT SCALE DRAWINGS.
- C. FOR ROOF FRAMING COORDINATE WITH STRUCTURAL DRAWINGS.
- D. ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE AT A MINIMUM OF 7'-6" ABOVE FINISH FLOOR, AND 8'-0" MINIMUM IN HALLWAYS.

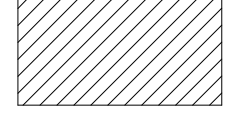
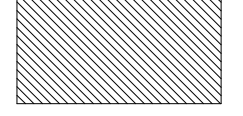
KEYNOTES

- 055213.A STEEL GAUDDRAIL
- 076200.A PARAPET COPING
- 076200.K OVERFLOW SCUPPER
- 077200.B ROOF HATCH
- 088000.A GLASS INFILL PANEL
- 088000.B INFILL PANEL

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.04 PRESERVE AND PROTECT EXISTING WINDOW SYSTEM
- 23.02 MECHANICAL EQUIPMENT COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

LEGEND

-  HATCH PATTERN INDICATES GLASS PANEL INFILL
-  HATCH PATTERN INDICATES SPANDREL PANEL INFILL

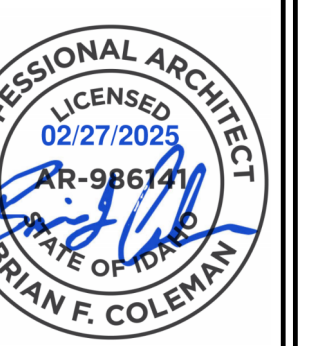
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Sheet:
BUILDING ELEVATIONS

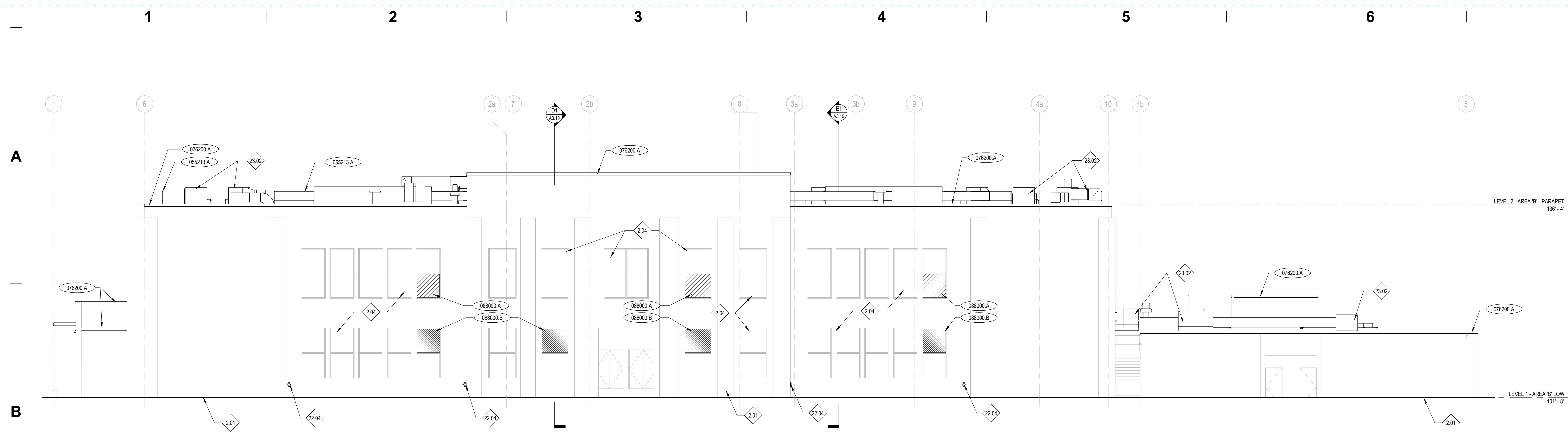
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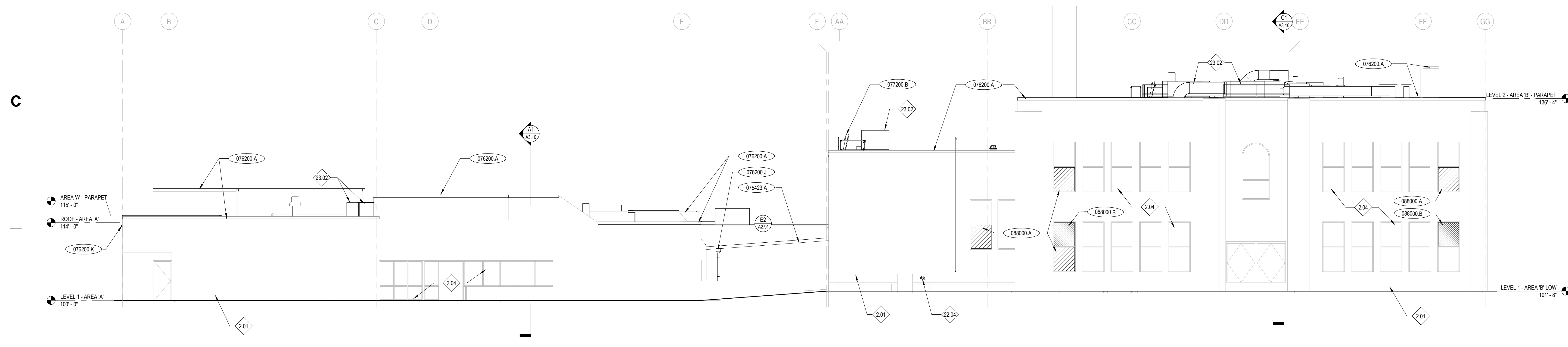
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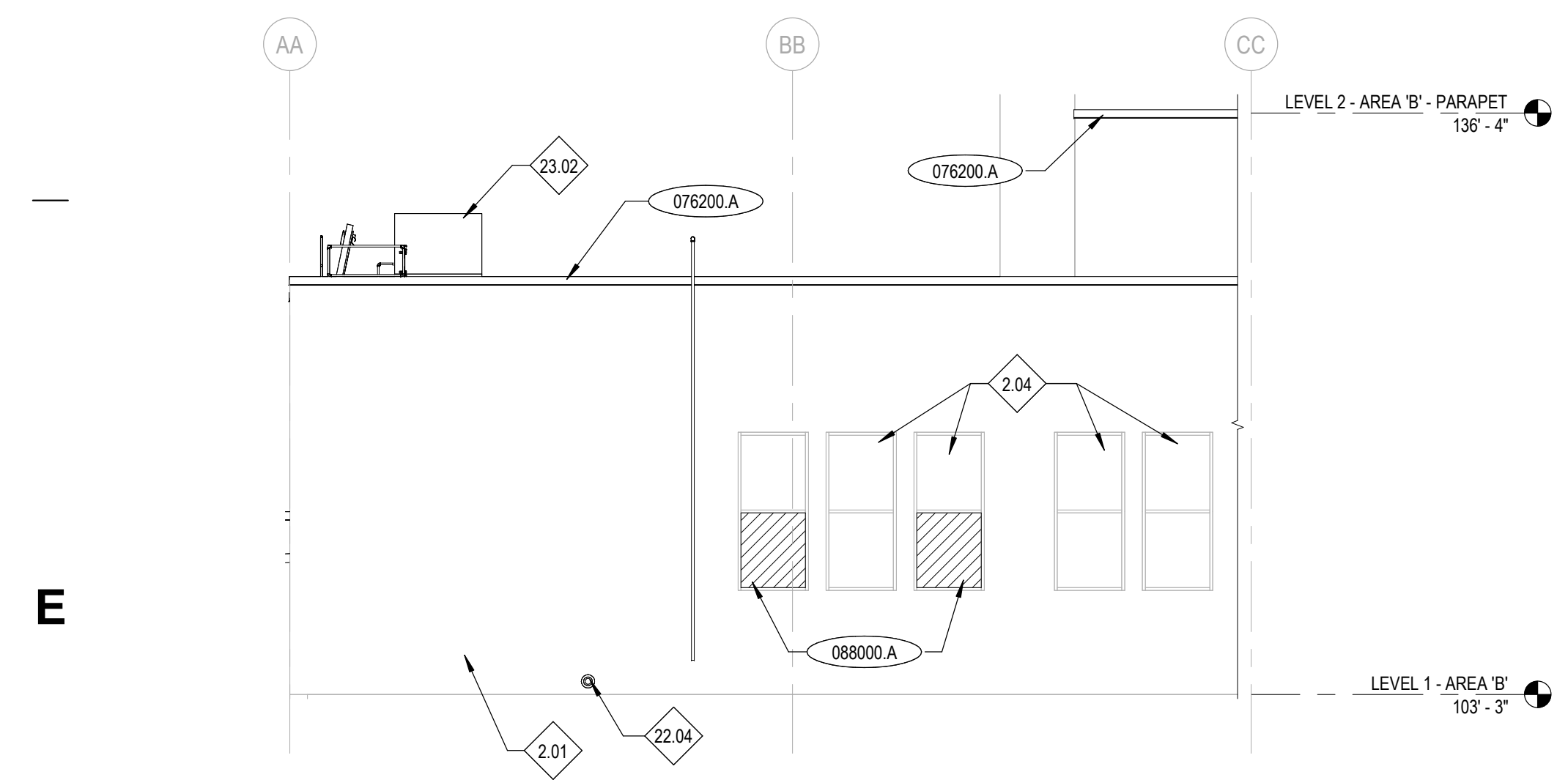
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A3.01



B1 BUILDING ELEVATION - SOUTH
 A3.02 1/8" = 1'-0"



D1 BUILDING ELEVATION - WEST 1A
 A3.02 1/8" = 1'-0"



E1 BUILDING ELEVATION - WEST 1B
 A3.02 1/8" = 1'-0"

GENERAL NOTES

- A. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- B. DO NOT SCALE DRAWINGS.
- C. FOR ROOF FRAMING COORDINATE WITH STRUCTURAL DRAWINGS.
- D. ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE AT A MINIMUM OF 7'-6" ABOVE FINISH FLOOR, AND 8'-0" MINIMUM IN HALLWAYS.

KEYNOTES

- 055213.A STEEL GAUDDRAIL
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 076200.A PARAPET CORING
- 076200.J DOWNSPOUT
- 076200.K OVERFLOW SCUPPER
- 077200.B ROOF HATCH
- 088000.A GLASS INFILL PANEL
- 088000.B INFILL PANEL

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.04 PRESERVE AND PROTECT EXISTING WINDOW SYSTEM OVERFLOW ROOF DRAIN. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS.
- 23.02 MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

LEGEND

- HATCH PATTERN INDICATES GLASS PANEL INFILL
- HATCH PATTERN INDICATES SPANDREL PANEL INFILL

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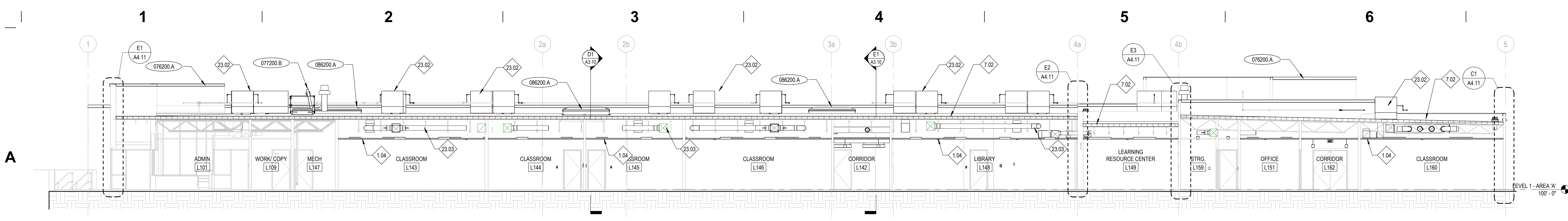
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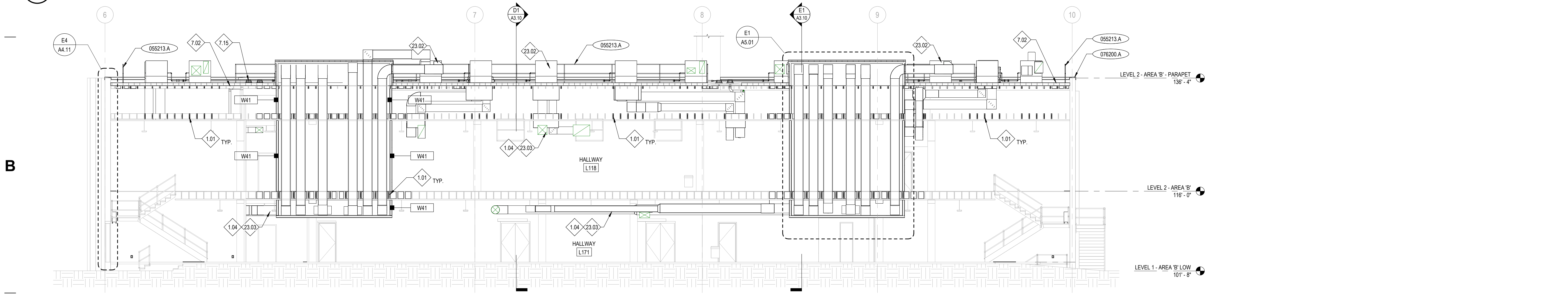
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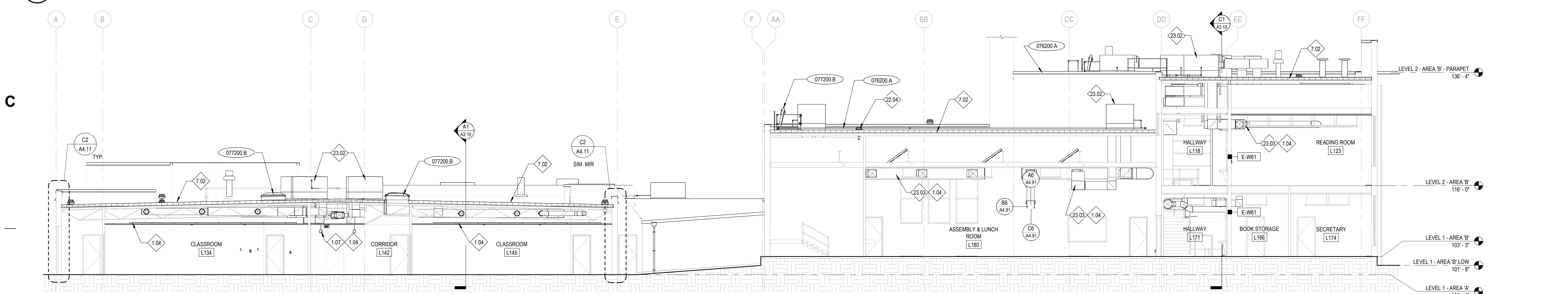
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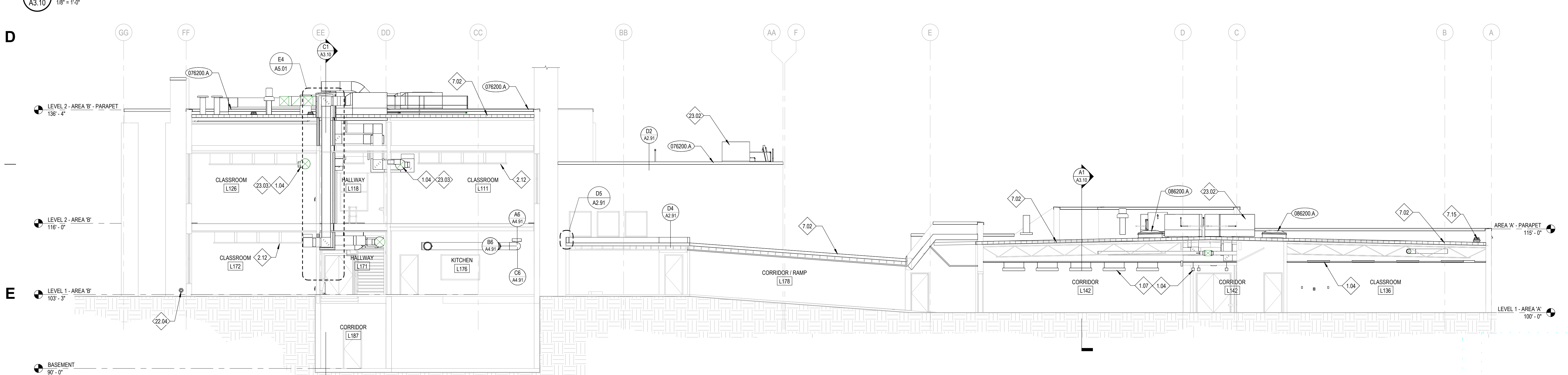
A1 BUILDING SECTION 1
A3.10 1/8" = 1'-0"



C1 BUILDING SECTION 2
A3.10 1/8" = 1'-0"



D1 BUILDING SECTION 3
A3.10 1/8" = 1'-0"



E1 BUILDING SECTION 4
A3.10 1/8" = 1'-0"

GENERAL NOTES

- A. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- B. DO NOT SCALE DRAWINGS.
- C. FOR ROOF FRAMING COORDINATE WITH STRUCTURAL DRAWINGS.
- D. ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE AT A MINIMUM OF 7'-8" ABOVE FINISH FLOOR, AND 8'-0" MINIMUM IN HALLWAYS.

KEYNOTES

- 05213.A STEEL GAUDDRAIL
- 076200.A PARAPET COPING
- 077200.B ROOF HATCH
- 086200.A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 1.04 COORDINATE WITH REFLECTED CEILING PLAN.
- 1.07 LIGHTING FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
- 2.12 CEILING AND LIGHTS EXISTING TO REMAIN
- 7.02 NEW TPO ROOFING AND INSULATION, COORDINATE WITH ROOF PLANS.
- 7.15 ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
- 22.04 OVERFLOW ROOF DRAIN. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS.
- 23.02 MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.
- 23.03 DUCT, COORDINATE WITH MECHANICAL DRAWINGS.

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BUILDING SECTIONS

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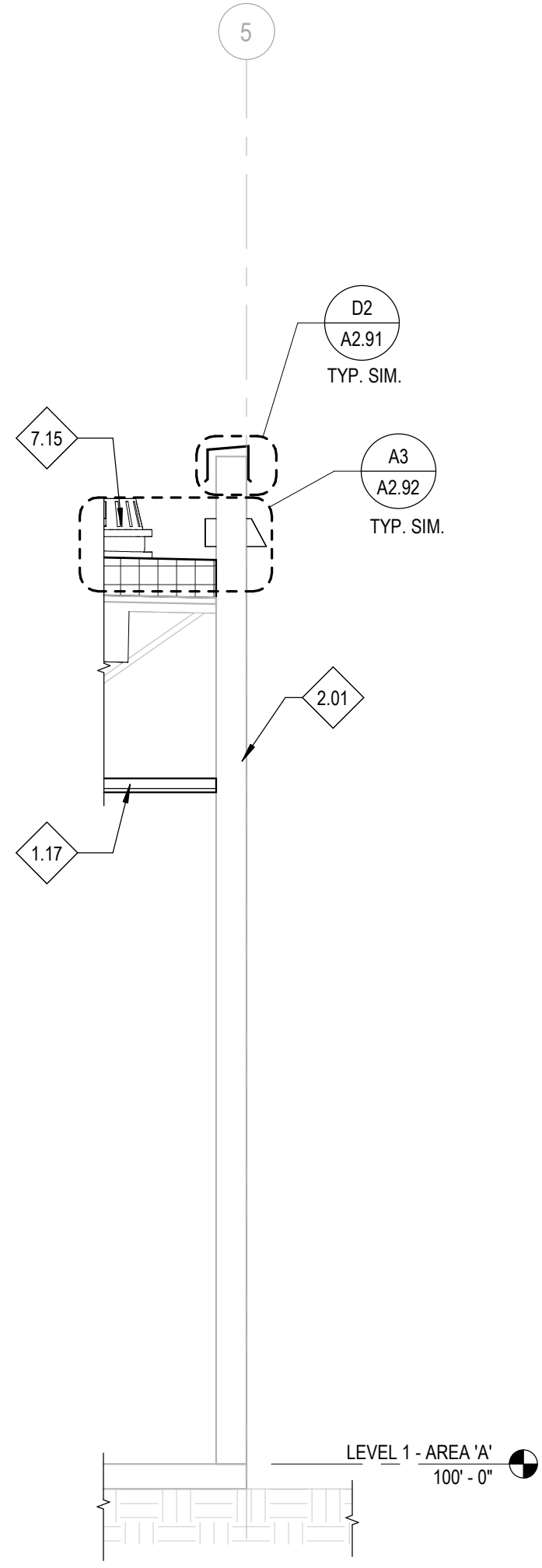
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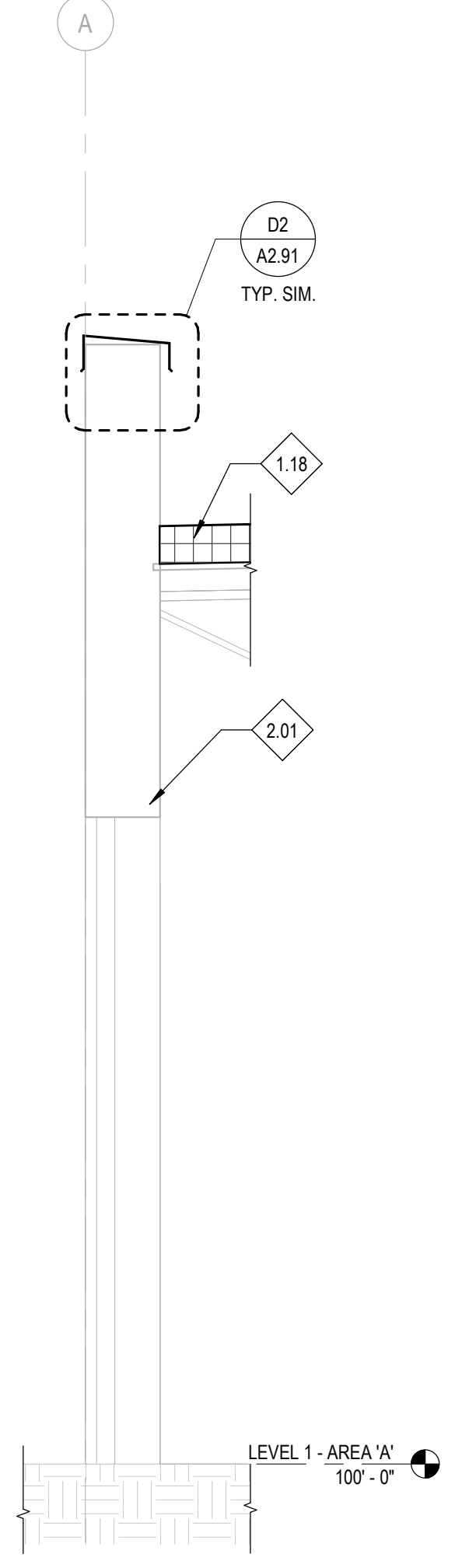
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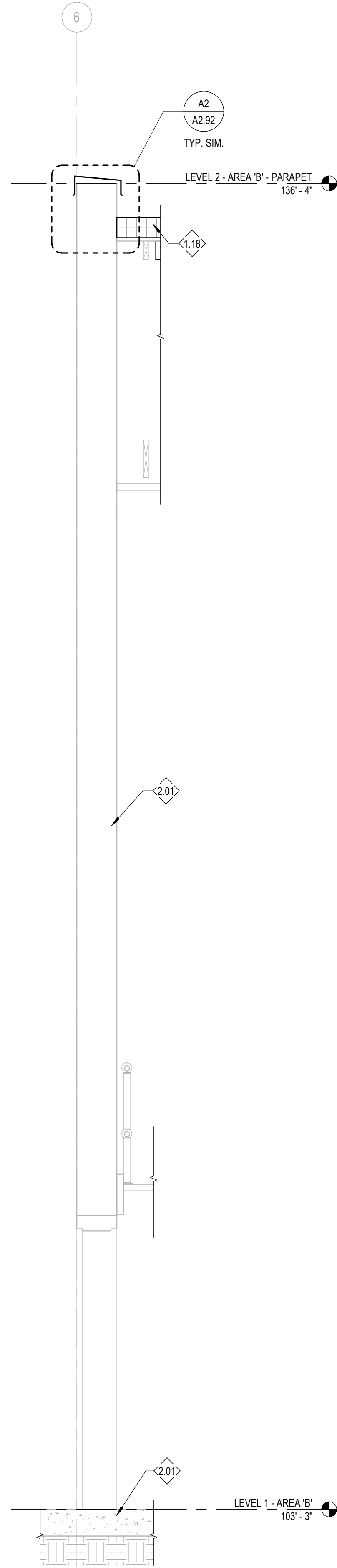
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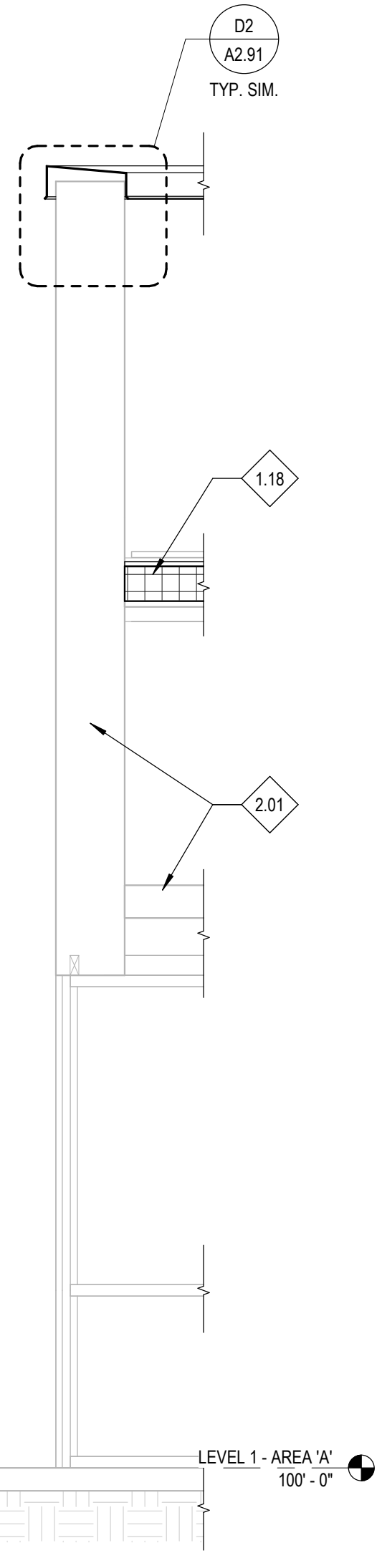
C1 WALL SECTION 04
A4.11 1/2" = 1'-0"



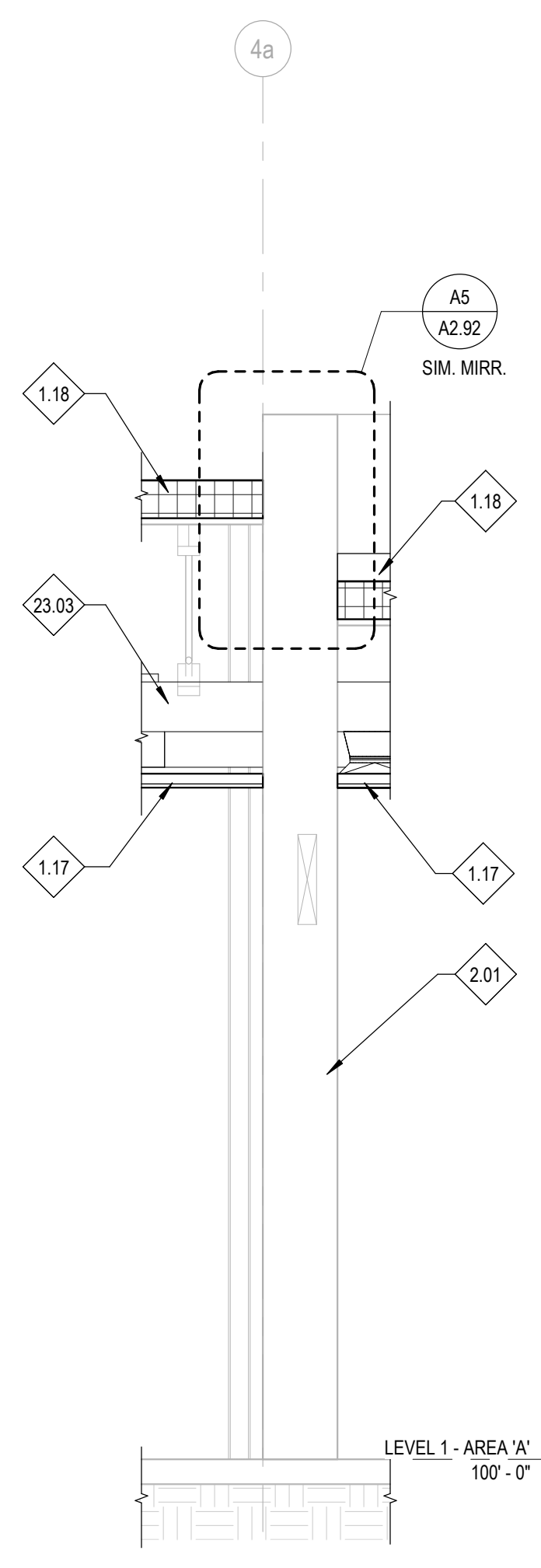
C2 WALL SECTION 05
A4.11 1/2" = 1'-0"



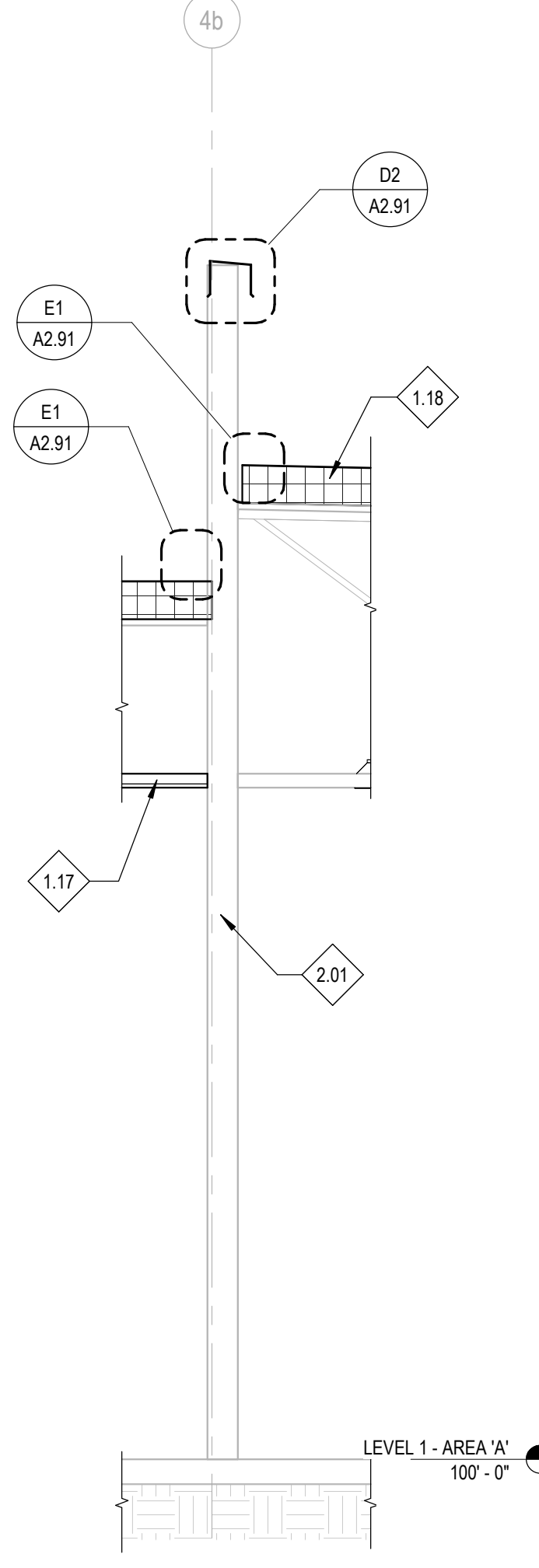
E4 WALL SECTION -06
A4.11 1/2" = 1'-0"



E1 WALL SECTION 01
A4.11 1/2" = 1'-0"



E2 WALL SECTION 02
A4.11 1/2" = 1'-0"



E3 WALL SECTION 03
A4.11 1/2" = 1'-0"

KEYNOTES

REFERENCE NOTES

- 1.17 RE. CEILING PLAN FOR CEILING TYPES
- 1.18 RE ROOF PLAN AND DETAILS FOR ROOF COMPOSITION
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 7.15 ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
- 23.03 DUCT, COORDINATE WITH MECHANICAL DRAWINGS.

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REPLACEMENT**
LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
EXTERIOR WALL SECTIONS

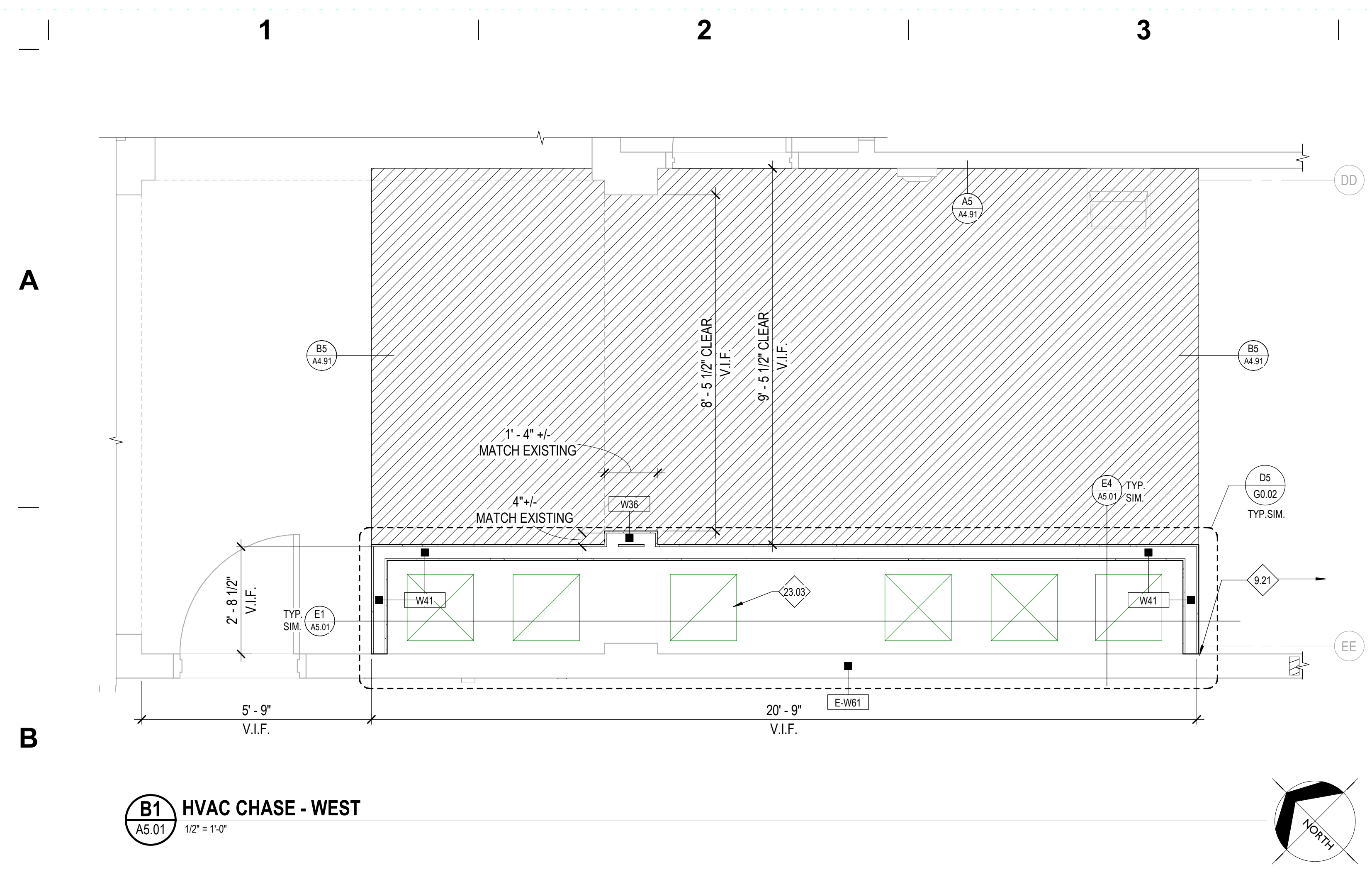
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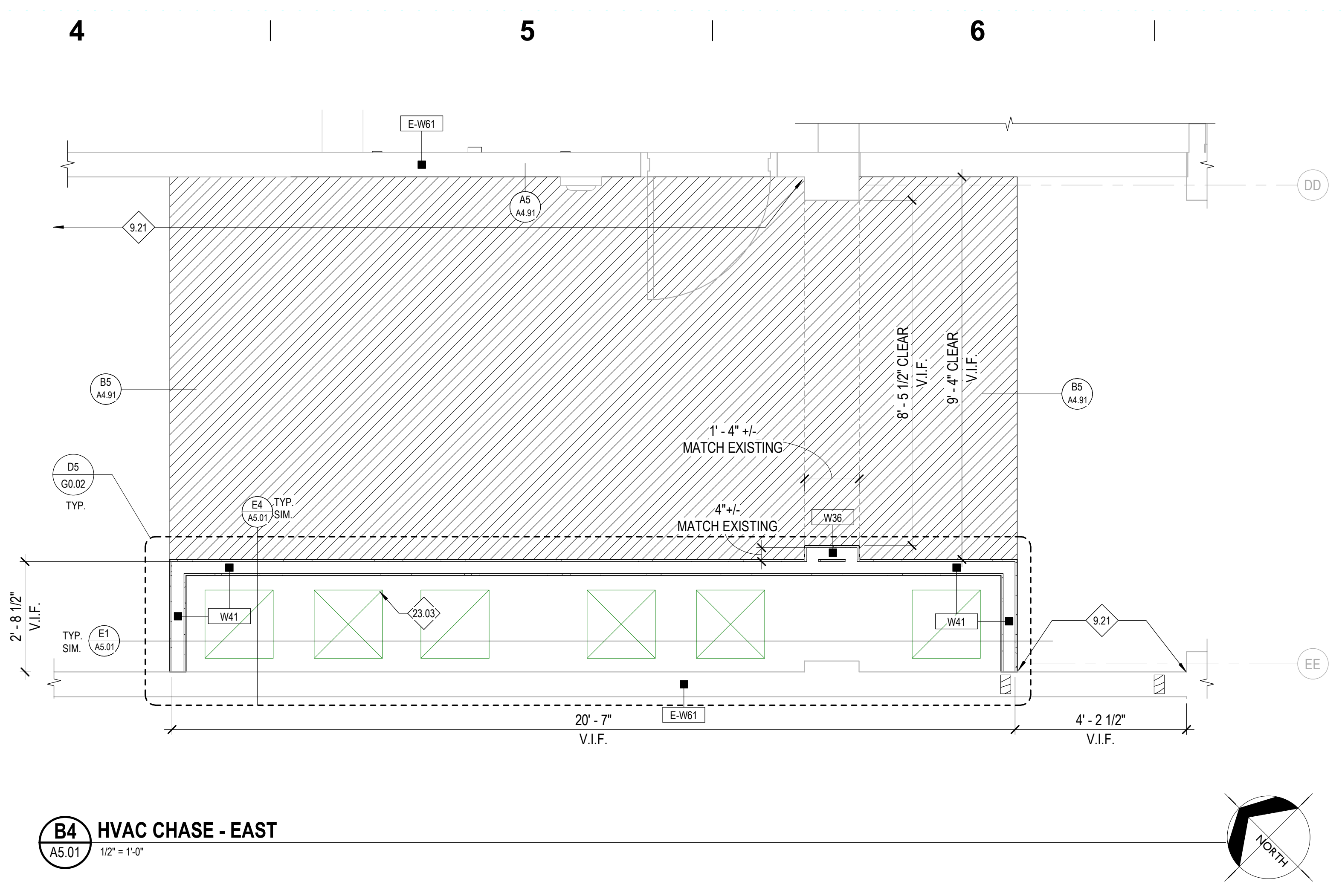
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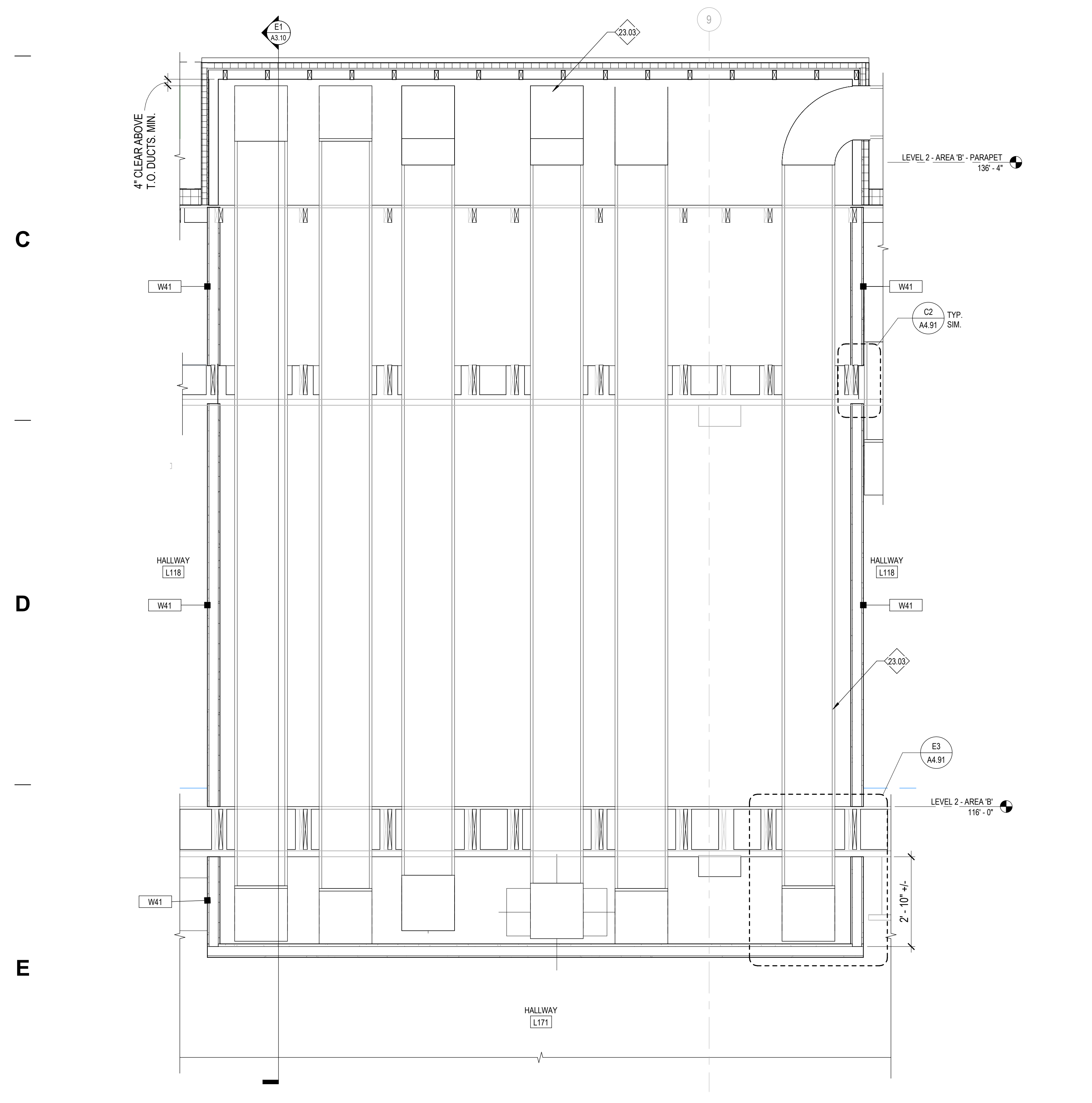
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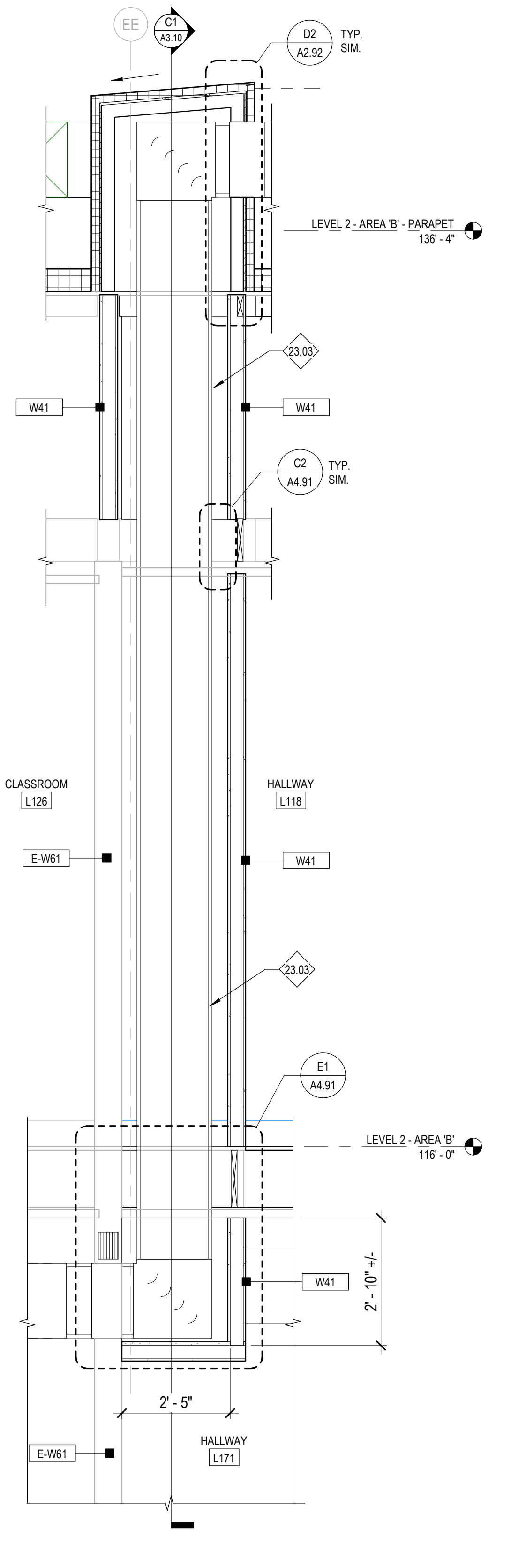
B1 HVAC CHASE - WEST
A5.01 1/2" = 1'-0"



B4 HVAC CHASE - EAST
A5.01 1/2" = 1'-0"



E1 FIRE SHAFT - SECTION 01
A5.01 1/2" = 1'-0"



E4 FIRE SHAFT - SECTION 02
A5.01 1/2" = 1'-0"

GENERAL NOTES

- THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- DO NOT SCALE DRAWINGS.
- SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- WHERE WALL IS PATCHED, PAINT WALL CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING.

KEYNOTES

REFERENCE NOTES

9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER. FLOOR TO CEILING TO MATCH EXISTING.

23.03 DUCT, COORDINATE WITH MECHANICAL DRAWINGS.

LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- AREA OF FLOOR INFILL. RE: DIVISION 09 IN THE SPECIFICATIONS

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ENLARGED PLANS

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CHRISTIAN F. COLEMAN

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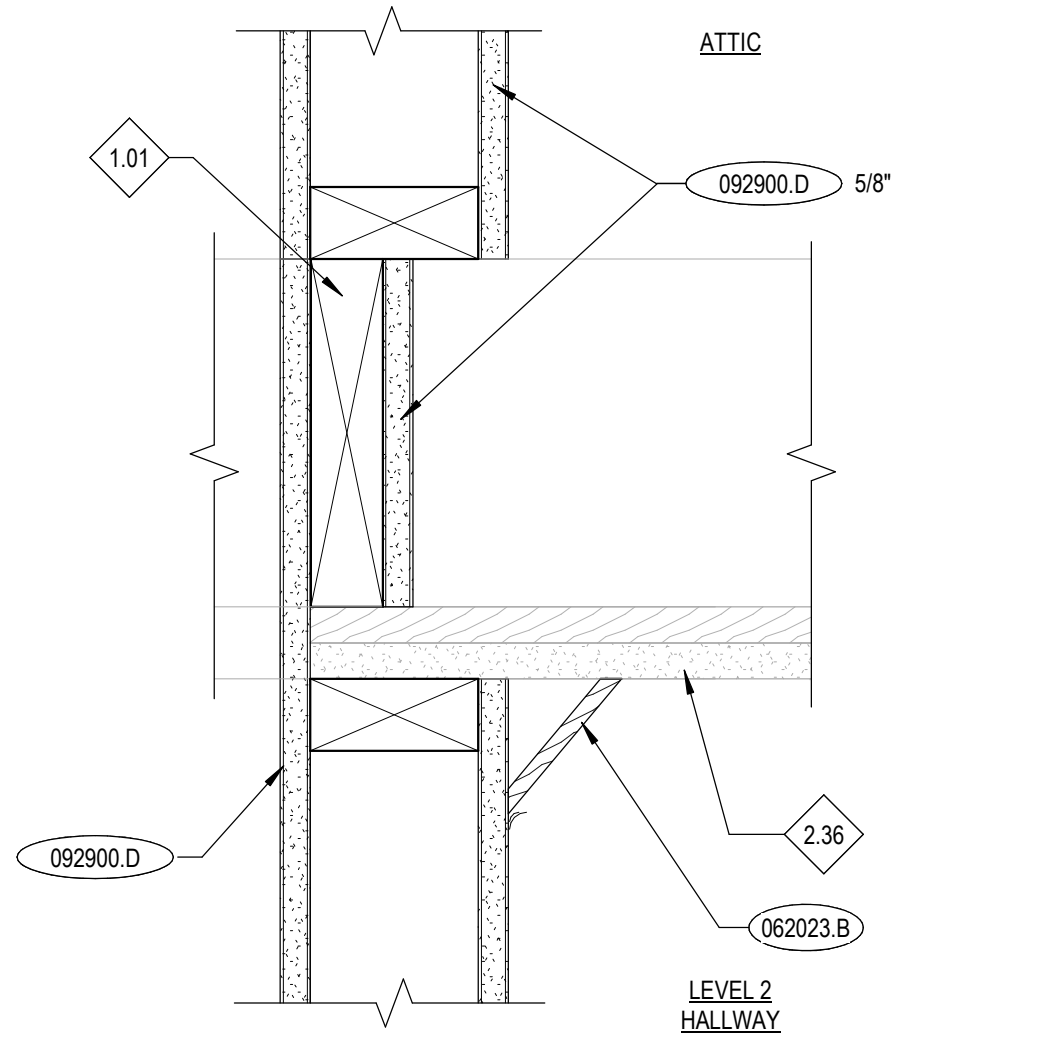
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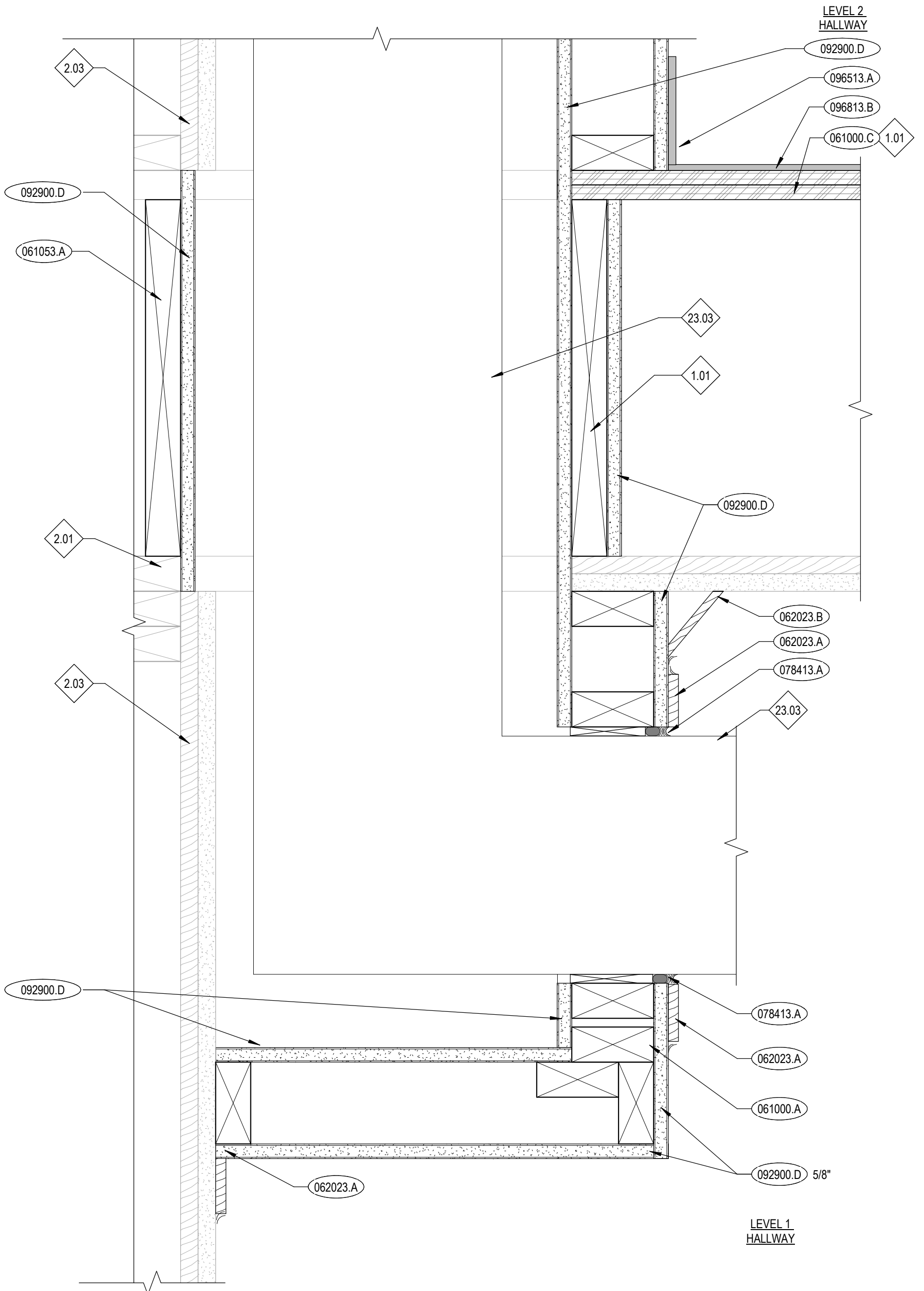
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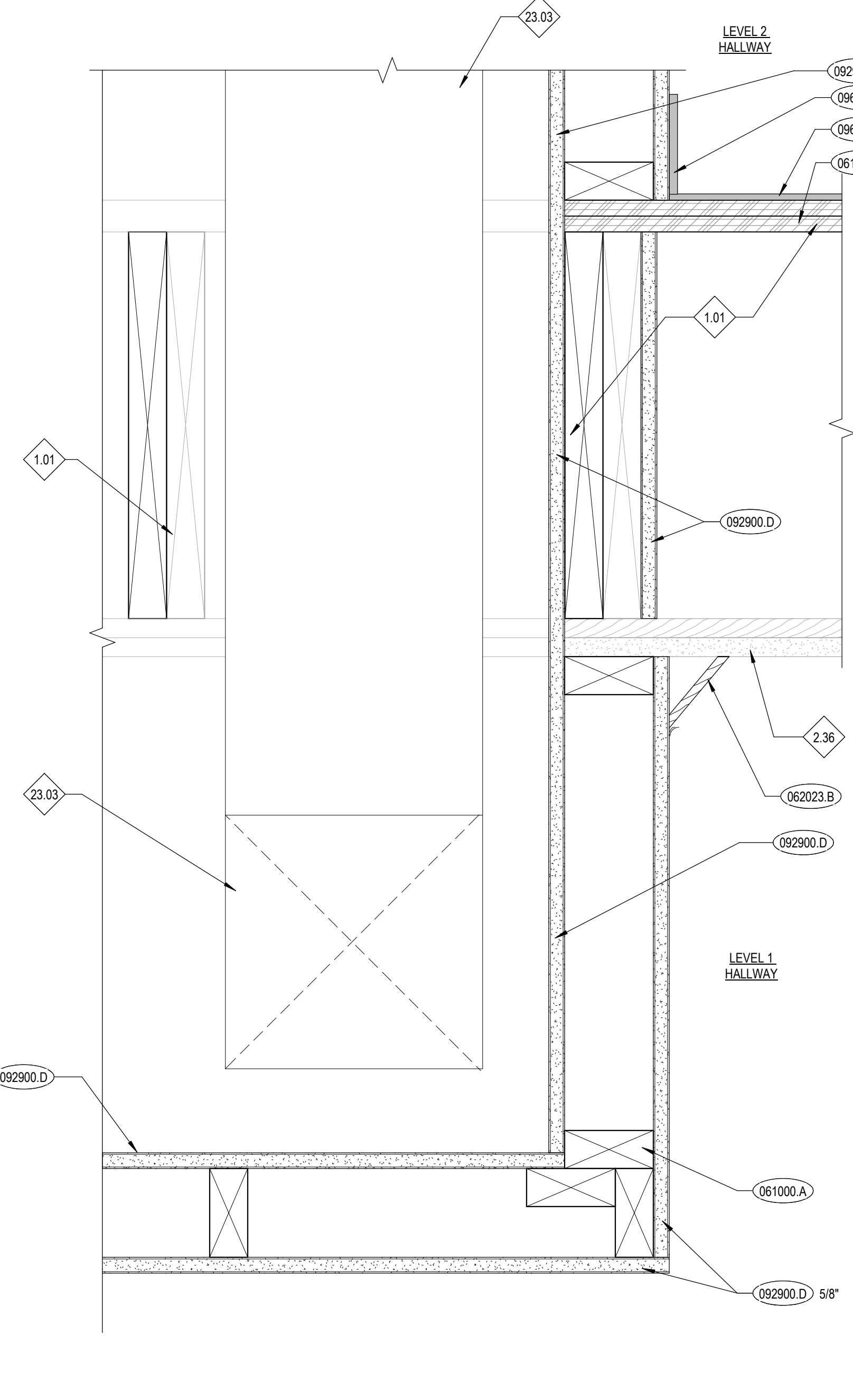
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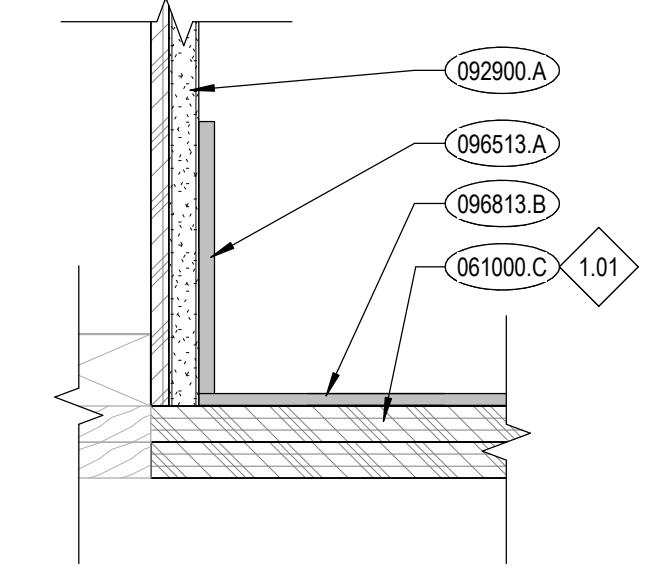
C2 FIRE SHAFT - CEILING @ ATTIC PENETRATION
A4.91 3" = 1'-0"



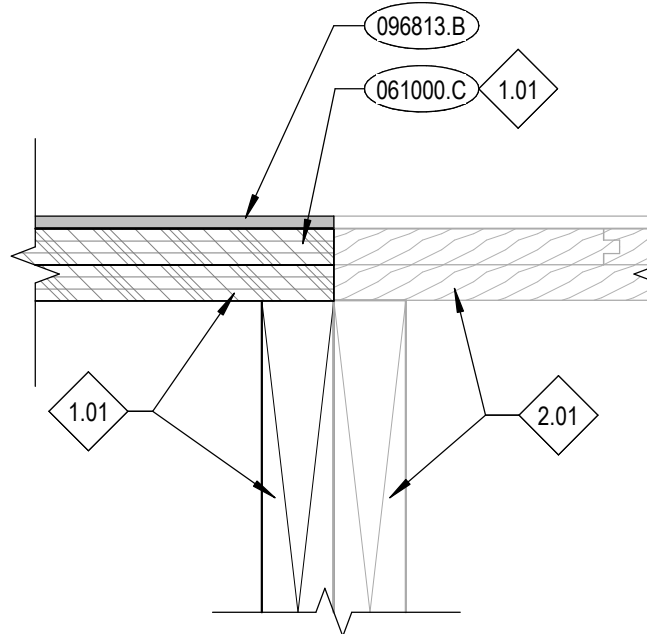
E1 FIRE SHAFT - FLOOR PENETRATION & SOFFIT - A2
A4.91 3" = 1'-0"



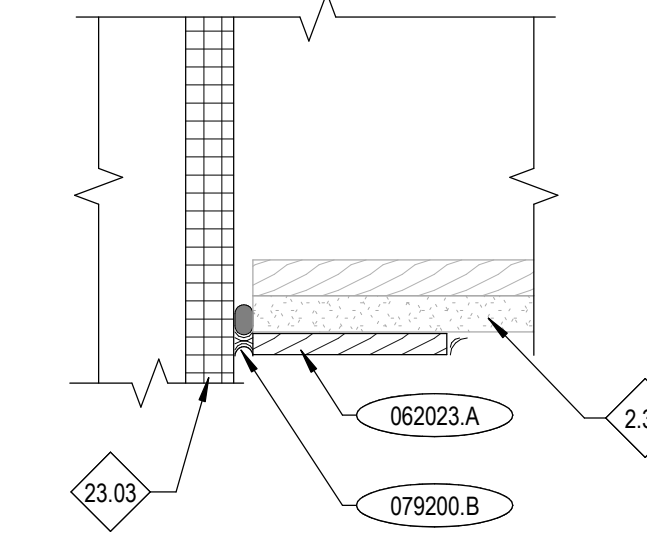
E3 FIRE SHAFT - FLOOR PENETRATION & SOFFIT - A1
A4.91 3" = 1'-0"



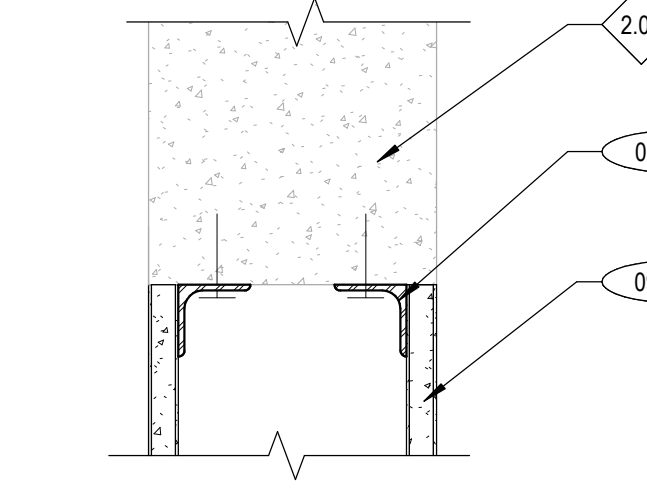
A5 WALL & FLOOR INFILL
A4.91 3" = 1'-0"



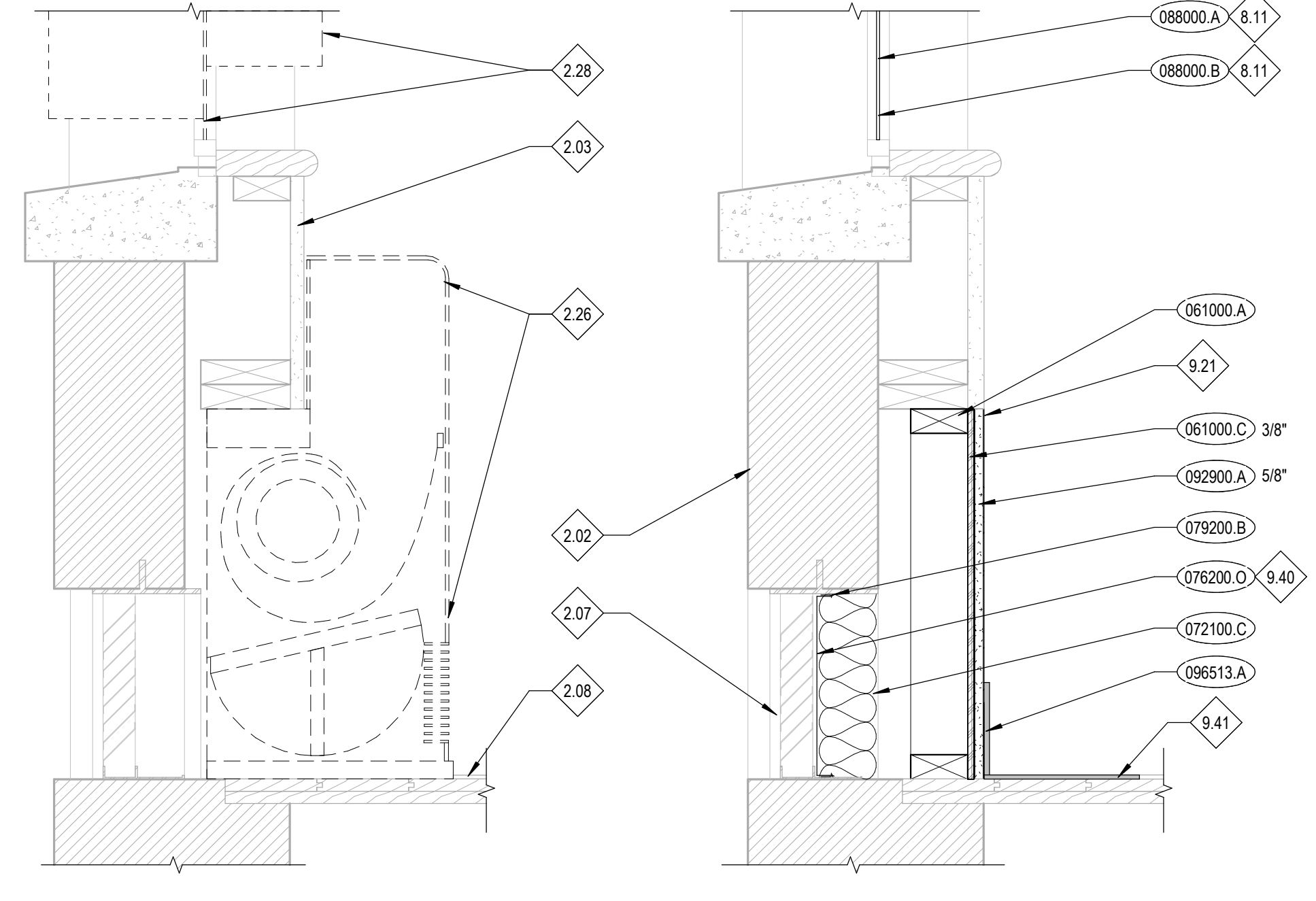
B5 FLOOR INFILL
A4.91 3" = 1'-0"



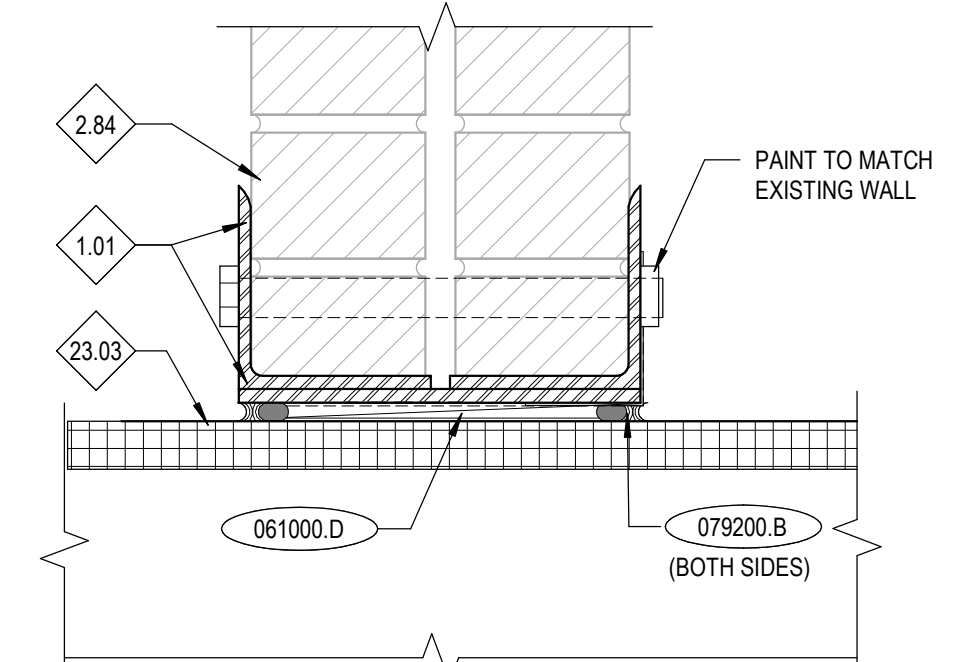
C5 DUCT @ CEILING
A4.91 3" = 1'-0"



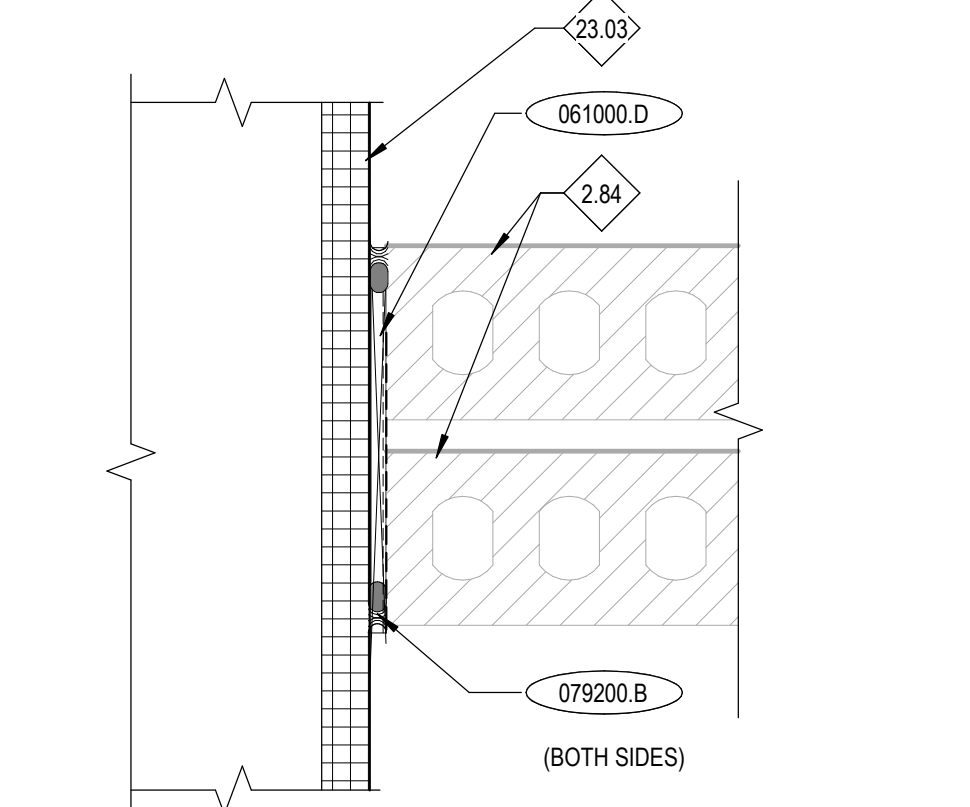
D5 WALL INFILL
A4.91 3" = 1'-0"



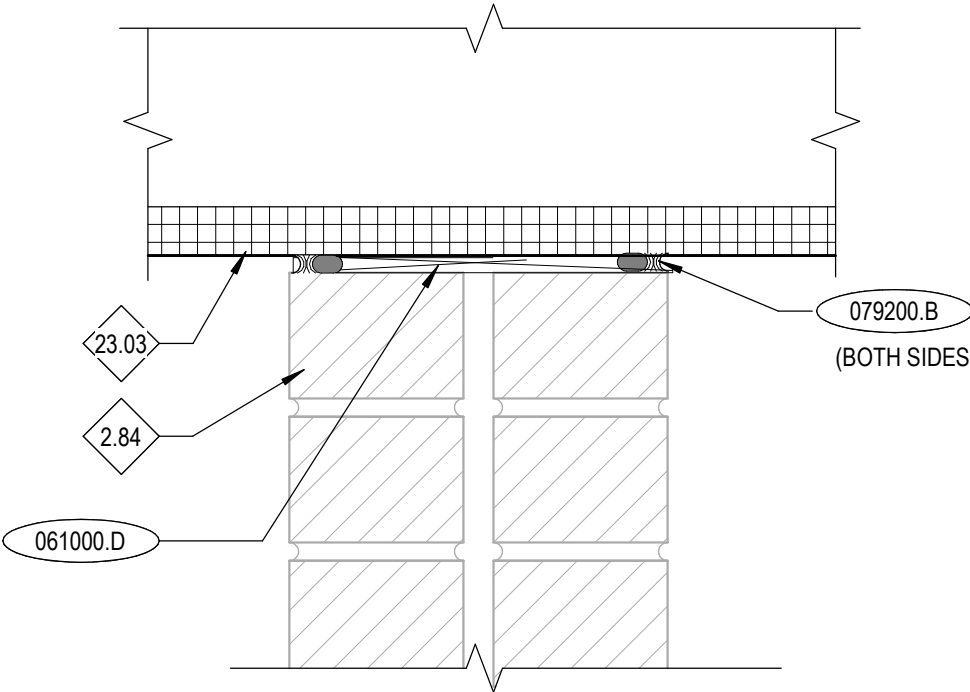
E5 UNIT VENTILATOR INFILL
A4.91 1 1/2" = 1'-0"



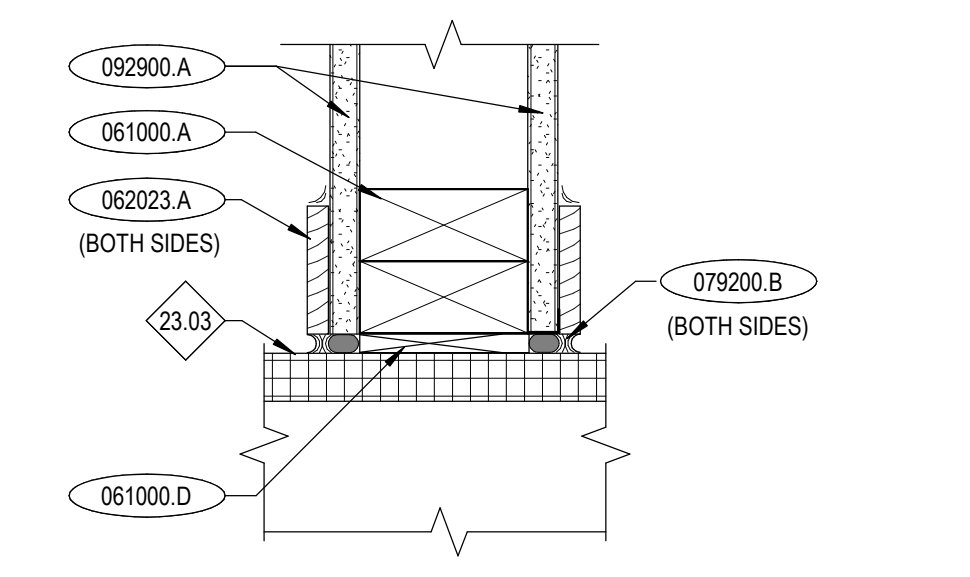
A6 DUCT HEAD @ MASONRY
A4.91 3" = 1'-0"



B6 DUCT JAMB @ MASONRY
A4.91 3" = 1'-0"



C6 DUCT SILL @ MASONRY
A4.91 3" = 1'-0"



D6 DUCT HEAD/SILL/JAMB @ GYP
A4.91 3" = 1'-0"

KEYNOTES

055000.C	STEEL ANGLE
061000.A	DIMENSIONAL LUMBER
061000.C	SHEATHING
061000.D	SHIM AS REQUIRED
061053.A	WOOD BLOCKING/NAILER
062023.A	WOOD TRIM. PAINT TO MATCH EXISTING.
062023.B	PAINTED CROWN MOLDING TO MATCH EXISTING.
072100.C	MINERAL WOOL
076200.O	SHEET METAL COVER TO INFILL OPENING.
078413.A	FIRE RESISTIVE JOINT SEALANT
079200.B	JOINT SEALANT
086000.A	GLASS INFILL PANEL.
086000.B	INFILL PANEL.
092900.A	GYPSUM WALL BOARD
092900.D	GYPSUM BOARD TYPE X.
092900.G	CEMENT BOARD
096513.A	RESILIENT BASE
096813.B	CARPET INFILL TO MATCH EXISTING

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.02 PRESERVE & PROTECT EXISTING BRICK WALL
- 2.03 EXISTING PLASTER WALL FINISH ON 3/8" ROCKLATH
- 2.07 EXISTING AIR INTAKE GRILLE TO REMAIN
- 2.08 DEMO DAMAGED FLOORING AS REQUIRED. VERIFY WITH CM/C PRIOR TO DEMO
- 2.26 EXISTING FAN COIL UNIT TO BE REMOVED - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.28 EXISTING SWAMP COOLER AND WINDOW PANEL TO BE REMOVED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE EXTENT OF WORK.
- 2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.
- 2.84 PRESERVE AND PROTECT EXISTING MASONRY WALL SYSTEM TO REMAIN. REPAIR DAMAGED AREAS TO MATCH ADJACENT WALL FINISH. 20 GA. 1 1/2" X 1 1/2" X 1 1/2"
- 8.11 INFILL OR GLAZING PANEL TO BE INSTALLED WHERE MECHANICAL UNITS ARE REMOVED. FIELD VERIFY EACH WINDOW INDIVIDUALLY FOR DIMENSIONS. MATCH EXISTING. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
- 9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER. FLOOR TO CEILING TO MATCH EXISTING.
- 9.40 PAINT BLACK ON EXTERIOR SIDE.
- 9.41 PATCH FLOOR. INFILL AS REQUIRED TO MATCH EXISTING.
- 23.03 DUCT, COORDINATE WITH MECHANICAL DRAWINGS.

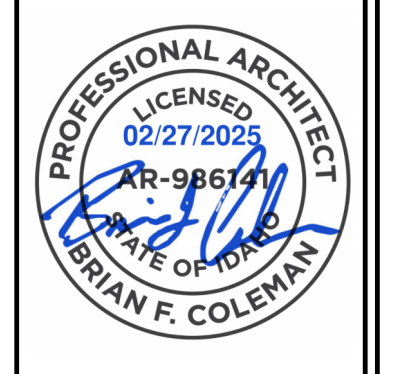
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EXTERIOR & INTERIOR DETAILS

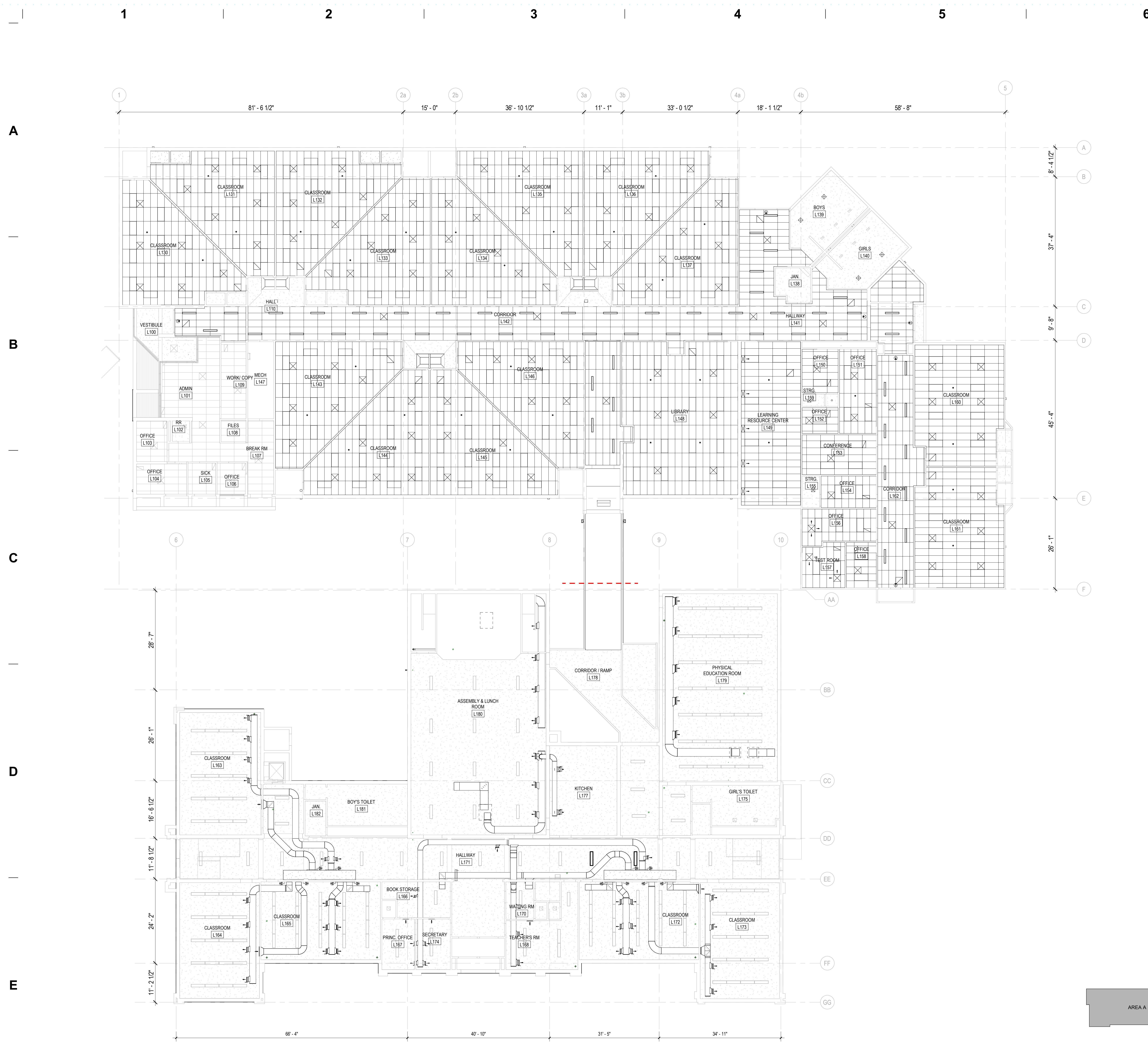
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- GENERAL NOTES**
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE PROVIDED AT THE CEILING PLANE AND IN THE WORK.
 - CENTER ALL LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL.
 - INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILINGS PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
 - ALL SOFFIT DIMENSIONS SHOWN ARE TO FACE OF FINISH.
 - COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
 - PAIN ALL EXPOSED-TO-VIEW STRUCTURAL STEEL DECK, AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE. DIVISION 9 SECTION "INTERIOR PAINTING".
 - PAIN ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT AND ASSOCIATED ITEMS, PLUMBING AND FIRE PROTECTION LINES AND ALL ASSOCIATED ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE. DIVISION 9 SECTION "INTERIOR PAINTING".
 - SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGS SHALL BE INSTALLED PER THE SPECIFICATIONS AND ASTM C754.
 - PATCH AND PAINT WALL AROUND ALL MECHANICAL PENETRATIONS. PAINT TO MATCH EXISTING WALL.
 - ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE. AT A MINIMUM OF 7'-6" ABOVE FINISH FLOOR, AND 8'-0" MINIMUM IN HALLWAYS.
 - EXISTING CEILING, LIGHTS AND SURROUNDING CONSTRUCTION TO BE PROTECTED. REPAIR OR REPLACE DAMAGED ITEMS.
- KEYNOTES**
- REFERENCE NOTES**
- LEGEND**
- 2" x 4" ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS. APC-1, U.O.N. RE. DIVISION 09 - FINISHES IN THE SPECIFICATIONS.
 - GYPSUM BOARD CEILING ON STEEL FRAMING AND SUPPORT SYSTEM. PAINT - P-9, U.O.N. RE. DIVISION 09 - FINISHES IN THE SPECIFICATION.
 - AREA OF CEILING INFILL
 - O.T.S. OPEN TO STRUCTURE
 - VERTICAL SERVICE DROP/CHASE. COORDINATE WITH MECHANICAL DRAWINGS.
 - LIGHTING FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
 - MECHANICAL FIXTURES. COORDINATE WITH MECHANICAL DRAWINGS.
 - X' - X' CEILING HEIGHT ABOVE FINISH FLOOR

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Project:
 LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT
 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 01 - COMPOSITE CEILING PLAN

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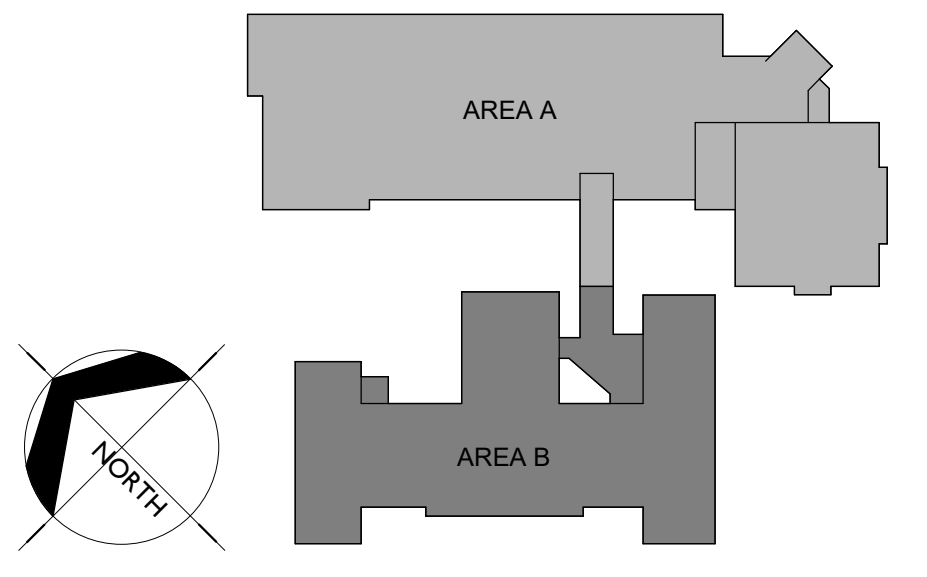
PROFESSIONAL ARCHITECT
 LICENSED 02/27/2025
 TR-98674
 STATE OF IDAHO
 BRIAN F. COLEMAN

Revisions: △

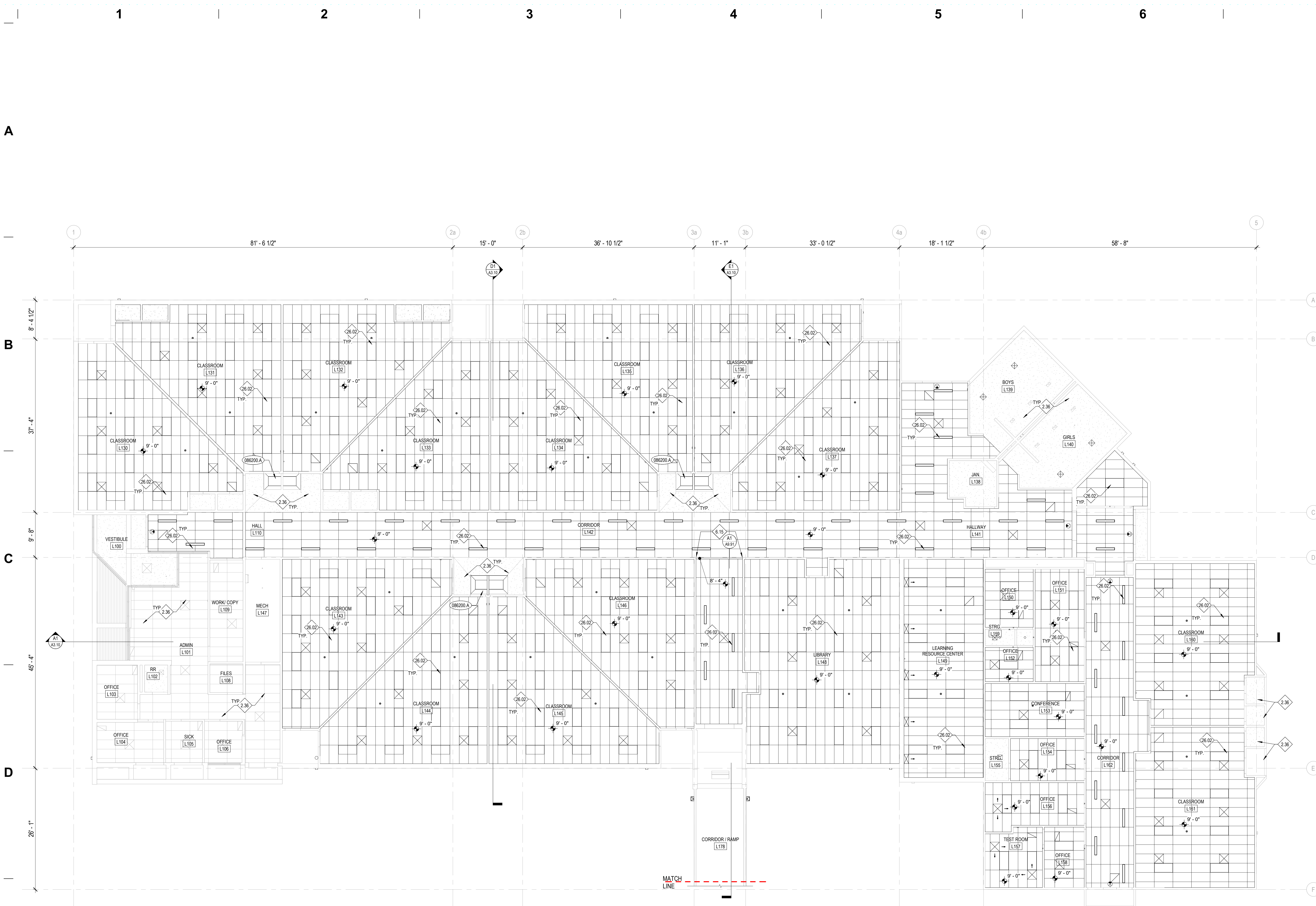
Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 02/27/2025

Sheet No: **A9.01**

A2 CEILING PLAN
 A9.01 332' x 140'



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E1 LEVEL 1 - CEILING PLAN AREA 'A'
 A9.11a 1/8" = 1'-0"

GENERAL NOTES

- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE PROVIDED AT THE CEILING PLANE AND IN THE WORK.
- CENTER ALL LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL.
- INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILINGS PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
- ALL SOFFIT DIMENSIONS SHOWN ARE TO FACE OF FINISH.
- COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
- PAIN ALL EXPOSED-TO-VIEW STRUCTURAL STEEL DECK, AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION 'INTERIOR PAINTING'.
- PAIN ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT AND ASSOCIATED ITEMS, PLUMBING AND FIRE PROTECTION LINES AND ALL ASSOCIATED ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION 'INTERIOR PAINTING'.
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- ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE. AT A MINIMUM OF 7'-6" ABOVE FINISH FLOOR, AND 8'-0" MINIMUM IN HALLWAYS.
- EXISTING CEILING, LIGHTS AND SURROUNDING CONSTRUCTION TO BE PROTECTED. REPAIR OR REPLACE DAMAGED ITEMS.

KEYNOTES

086200 A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY

REFERENCE NOTES

2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.
 6.15 NEW INTERIOR SOFFIT. PAINT TO MATCH EXISTING WALL COLOR.
 26.02 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

LEGEND

- 2" x 4" ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL. CEILING UNITS: APC-1, L10.N. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS.
- GYPSUM BOARD CEILING ON STEEL FRAMING AND SUPPORT SYSTEM. PAINT: P-9, L10.N. RE: DIVISION 09 - FINISHES IN THE SPECIFICATION.
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- LIGHTING FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
- MECHANICAL FIXTURES. COORDINATE WITH MECHANICAL DRAWINGS.
- X'-X" CEILING HEIGHT ABOVE FINISH FLOOR

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 LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT
 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 01 - CEILING PLAN AREA 'A'

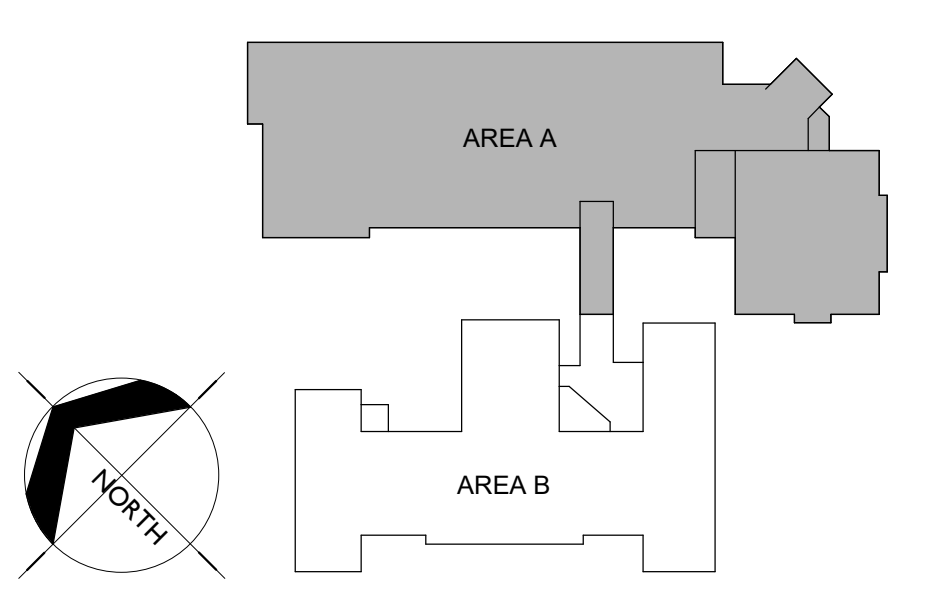
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Project No: 24076
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 Date: 02/27/2025

Sheet No:
A9.11a



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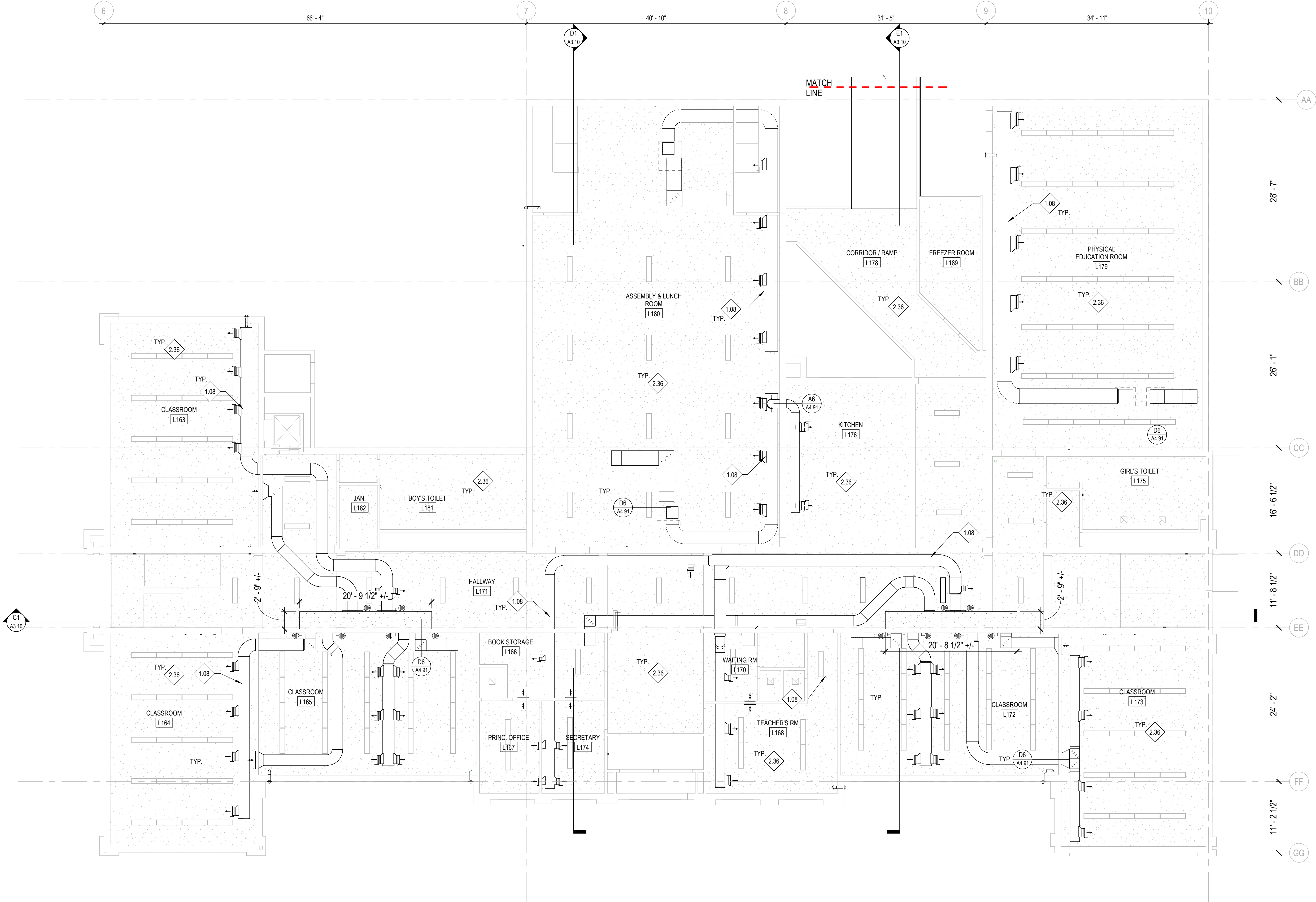
A

B

C

D

E



GENERAL NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE PROVIDED AT THE CEILING PLANE AND IN THE WORK.
2. CENTER ALL LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL.
3. INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILINGS PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
4. ALL SOFFIT DIMENSIONS SHOWN ARE TO FACE OF FINISH.
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7. PAINT ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT AND ASSOCIATED ITEMS, PLUMBING AND FIRE PROTECTION LINES AND ALL ASSOCIATED ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION 'INTERIOR PAINTING'.
8. SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGS SHALL BE INSTALLED PER THE SPECIFICATIONS AND ASTM C754.
9. PATCH AND PAINT WALL AROUND ALL MECHANICAL PENETRATIONS. PAINT TO MATCH EXISTING WALL.
10. ALL DUCTS TO BE INSTALLED AS TIGHT TO THE CEILING AS POSSIBLE. AT A MINIMUM OF 7'-6" ABOVE FINISH FLOOR, AND 8" OF MINIMUM IN HALLWAYS.
11. EXISTING CEILING, LIGHTS AND SURROUNDING CONSTRUCTION TO BE PROTECTED. REPAIR OR REPLACE DAMAGED ITEMS.

KEYNOTES

REFERENCE NOTES

- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- 2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.

LEGEND

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- MECHANICAL FIXTURES. COORDINATE WITH MECHANICAL DRAWINGS.
- 'X' - 'X' CEILING HEIGHT ABOVE FINISH FLOOR

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 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
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Sheet:
 LEVEL 01 - CEILING PLAN AREA 'B'

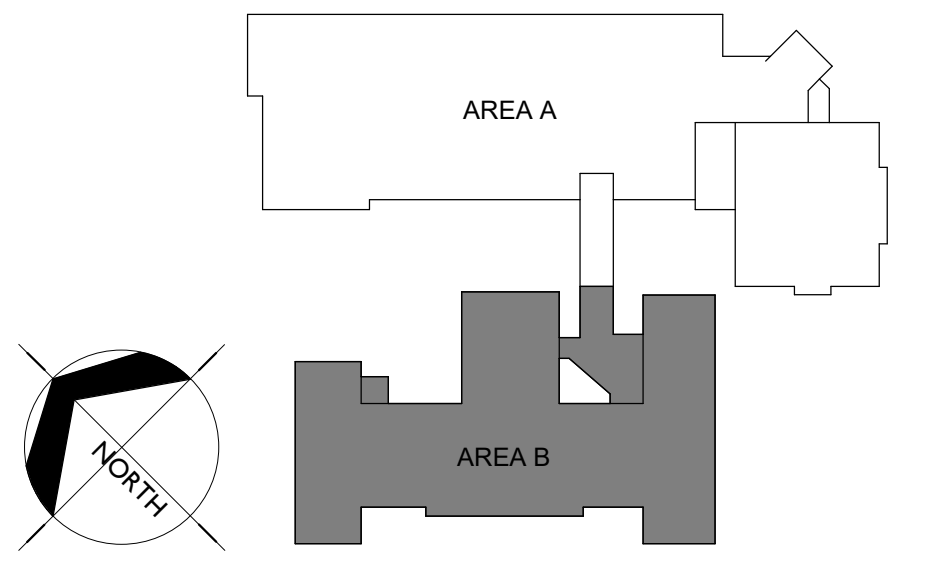
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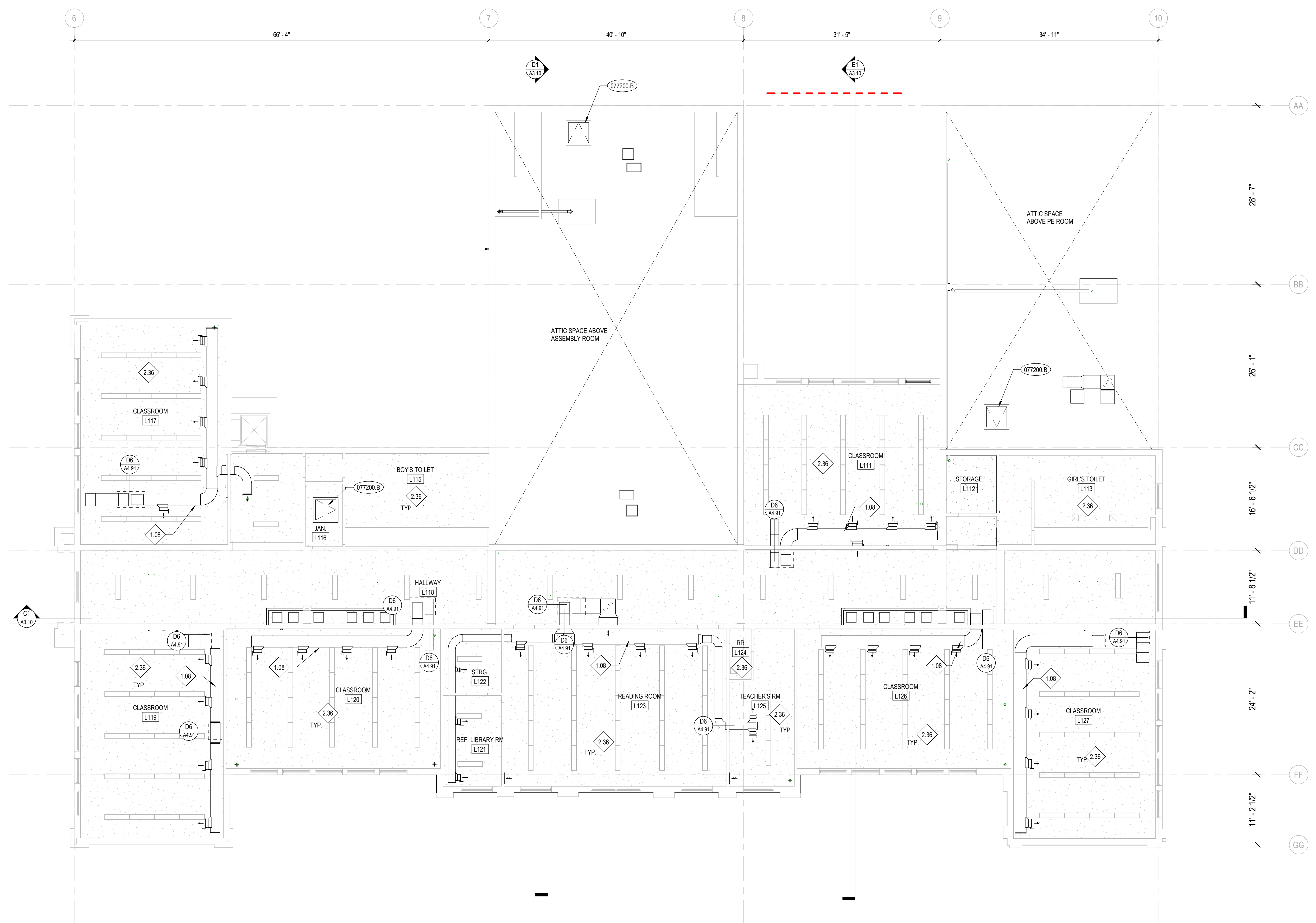
Sheet No: **A9.11b**

E1 LEVEL 1 - CEILING PLAN AREA 'B'
 A9.11b 1/8" = 1'-0"



1 2 3 4 5 6

A
B
C
D
E



E1 LEVEL 2 - REFLECTED CEILING PLAN
AG.02 1/8" = 1'-0"

GENERAL NOTES

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KEYNOTES

077200.B ROOF HATCH

REFERENCE NOTES

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2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.

LEGEND

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LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
LEVEL 02 - CEILING PLAN

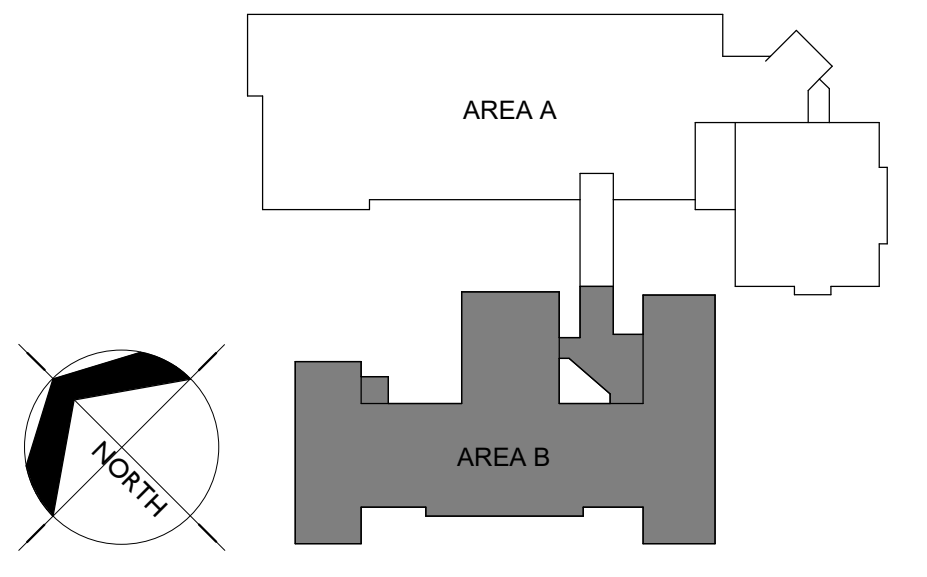
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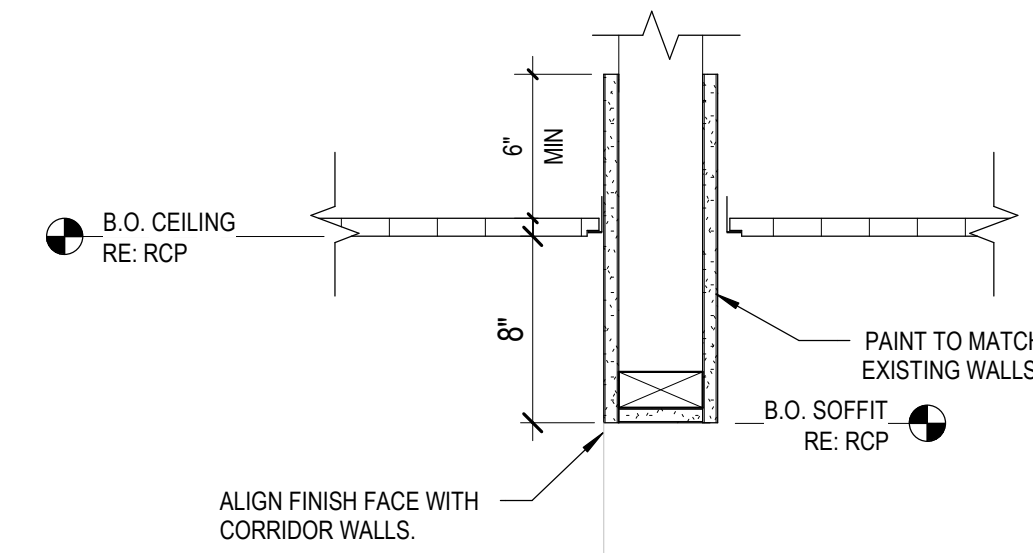
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Sheet No: **A9.02**

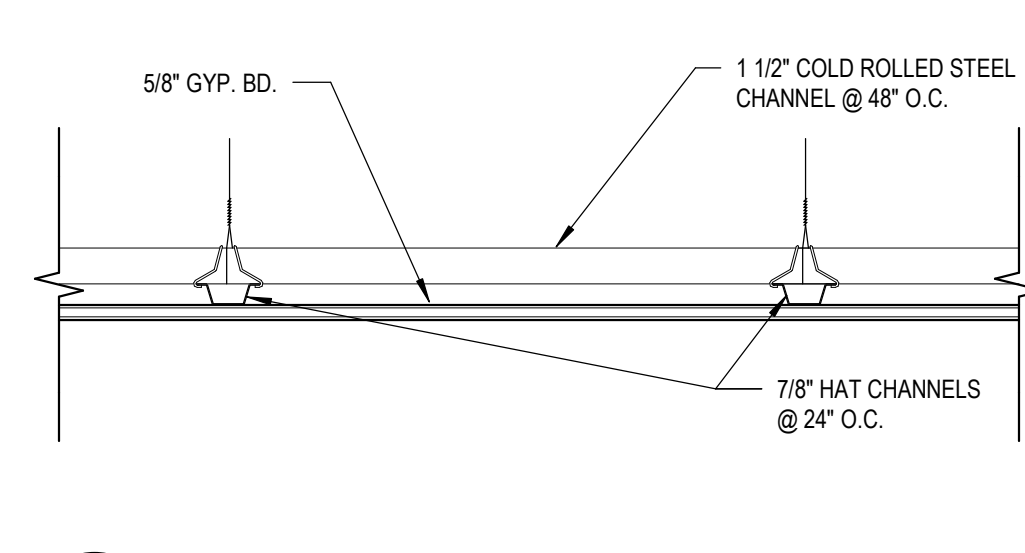


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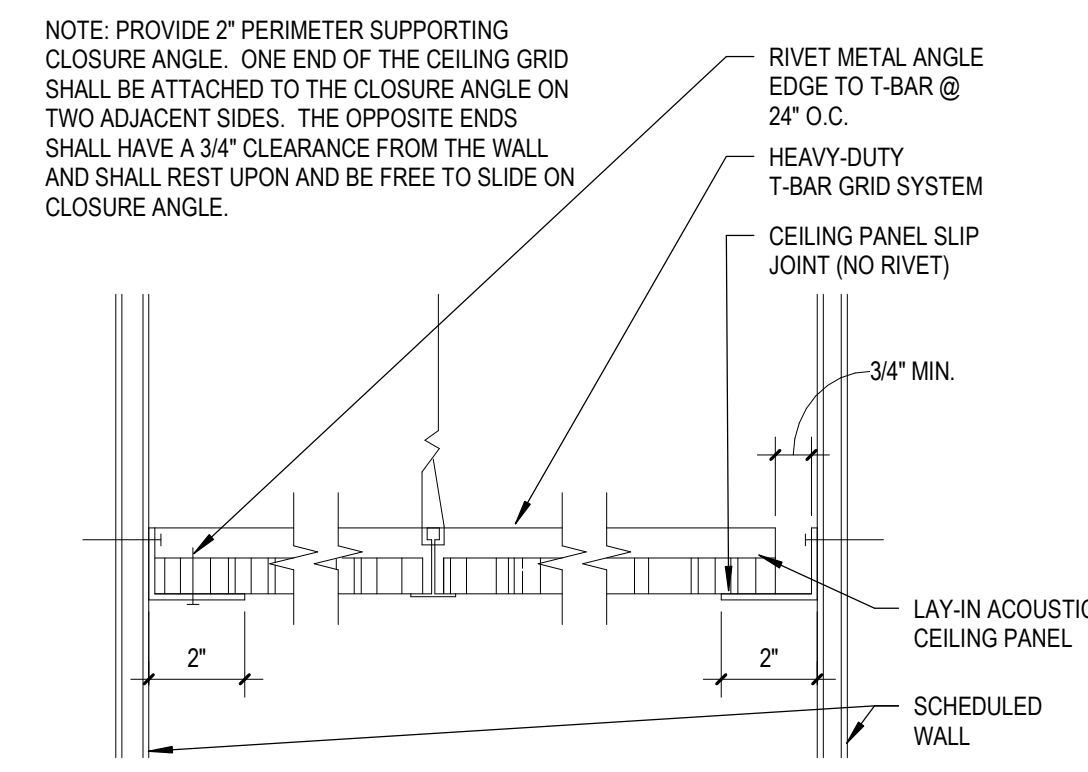
A1
A9.91
SOFFIT DETAIL
1/12" = 1'-0"

2



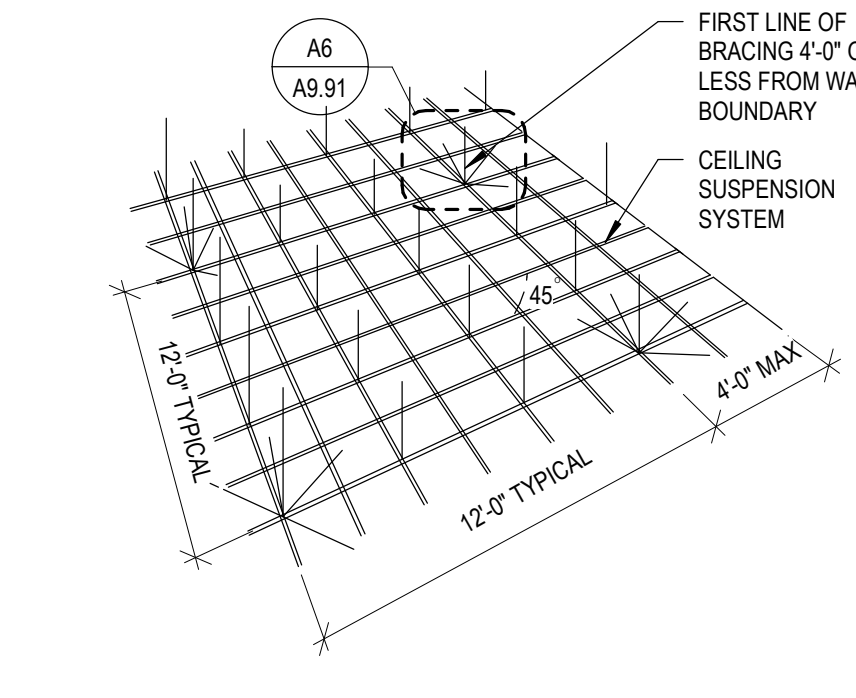
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A9.91
SUSPENDED CEILING DETAIL
3\"/>

3



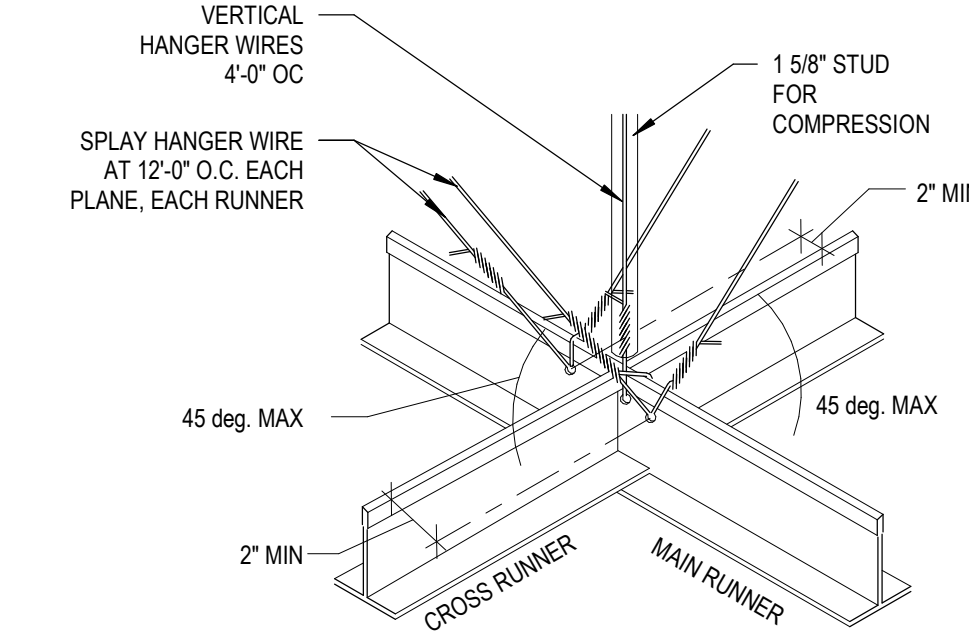
A3
A9.91
TYPICAL LAY-IN CEILING TILE EDGE DETAIL
3\"/>

4



A5
A9.91
TYPICAL SEISMIC BRACING DETAIL-01
NOT TO SCALE

6



A6
A9.91
TYPICAL SEISMIC BRACING DETAIL-02
1/2\"/>

B

C

D

E

GENERAL NOTES

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KEYNOTES

REFERENCE NOTES

HUMMEL ARCHITECTS

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Project:
LINCOLN ELEMENTARY SCHOOL HVAC REPLACEMENT
 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
CEILING DETAILS

100% CD



Revisions: Δ

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 02/27/2025

Sheet No:
A9.91

1 STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE LOG	
		100% DD	BID SET
S0.00	ABBREVIATIONS, SYMBOLS AND SHEET INDEX	X	X
S1.00	GENERAL STRUCTURAL NOTES	X	X
S1.01	GENERAL STRUCTURAL NOTES	X	X
S1.02	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING	X	X
S1.03	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING	X	X
S2.01	LOWER ROOF - LOWER TIER FRAMING PLAN	X	X
S2.02	CLASSROOM ADDITION BUILDING ROOF FRAMING PLAN, ORIGINAL BUILDING LOWER ROOF - UPPER TIER & LEVEL 02 FLOOR FRAMING PLAN	X	X
S2.03	HIGHER ROOF - LOWER TIER FRAMING PLAN	X	X
S2.04	HIGHER ROOF - UPPER TIER FRAMING PLAN	X	X
S3.00	RETROFIT DETAILS	X	X
S3.01	RETROFIT DETAILS	X	X
S3.02	RETROFIT DETAILS	X	X
S3.03	RETROFIT DETAILS	X	X

ISSUE LOG KEY:
 X ISSUED AS PART OF A SET
 - NOT AS PART OF ISSUED SET
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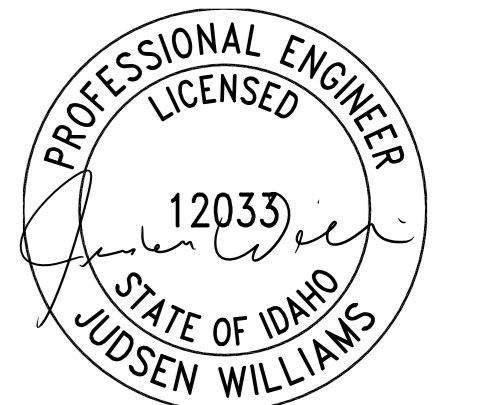
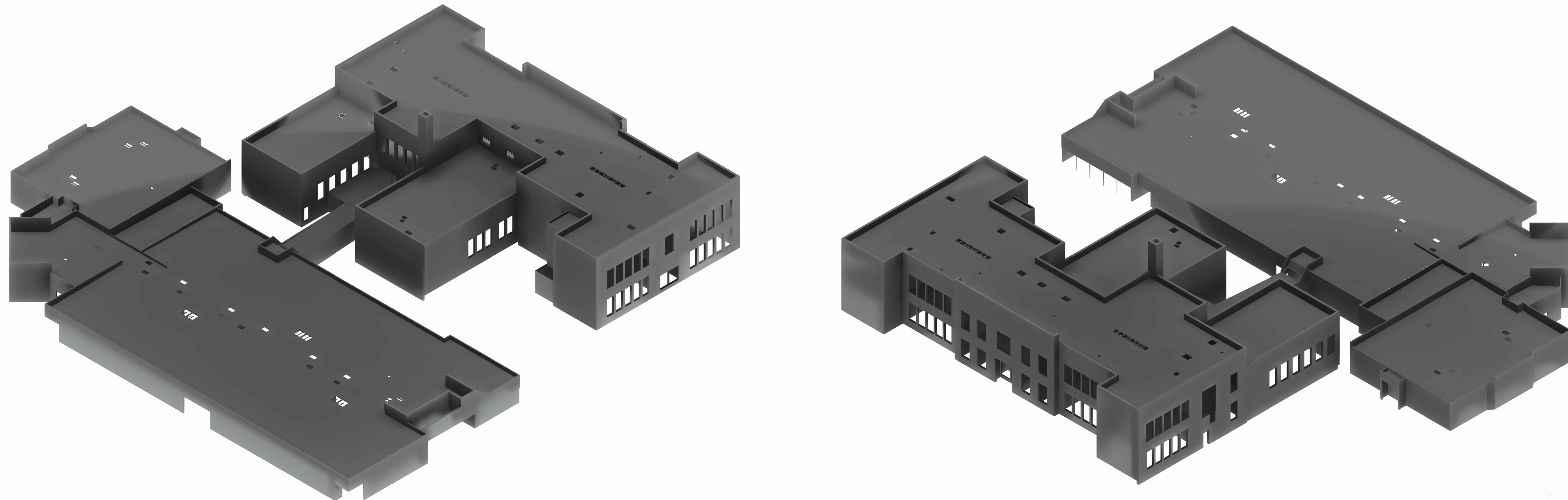
3 STRUCTURAL ABBREVIATIONS

(E) EXISTING	EW EACH WAY	OF OUTSIDE FACE
AB ANCHOR BOLT	EXP EXPANSION	OPNG OPENING
ADD'L ADDITIONAL	EXT EXTERIOR	OPP OPPOSITE
ADJ ADJUSTABLE	F EXTERIOR FINISH	PAF POWER ACTUATED FASTENER
AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FD FLOOR DRAIN	PC PIECE
AFF ABOVE FINISH FLOOR	FDN FOUNDATION	PC PILE CAP
ANCH ANCHOR	FF FINISH FLOOR	PEN PENETRATION
ARCH ARCHITECTURAL	FLR FLOOR	PJP PARTIAL JOINT PENETRATION PLATE
B.O. BOTTOM OF BUILDING	FOB FACE OF BUILDING	PLW PLYWOOD
BLDG BLOCKING	FS FAR SIDE	PSF POUNDS PER SQUARE FOOT
BM BEAM	FT FEET	PSI POUNDS PER SQUARE INCH
BN DIAPHRAGM BOUNDARY NAILING	FTG FOOTING	PT POST-TENSIONED
BOT BOTTOM	GA GAUGE	PT PRESERVATIVE-TREATED
BRG BEARING	GALV GALVANIZED	PWF PREFABRICATED WOOD TRUSS
BSMT BASEMENT	GB GRADE BEAM	R RADIUS
BSMT BETWEEN	GEN GENERAL	RD ROOF DRAIN
C CAMBER	GL GLUED LAMINATED TIMBER	REINF REINFORCING
CAP CAPACITY	GOV GOVERNMENT	REQD REQUIRED
CC CENTER TO CENTER	GR GRADE	RND ROUND
CDF CONTROLLED DENSITY FILL	GWB GYPSUM WALL BOARD	RO ROUGH OPENING
CIP CAST-IN-PLACE	HF HEM-FIR	RTN RETURN
CJ CONSTRUCTION OR CONTROL JOINT	HGR HANGER	SC SLIP CRITICAL
CJP COMPLETE JOINT PENETRATION	HK HOOK	SCHED SCHEDULE
CL CENTERLINE	HORIZ HORIZONTAL	SECT SECTION
CLG CEILING	HPS HOLLOW STRUCTURAL SECTION	SFRS SEISMIC FORCE-RESISTING SYSTEM
CLR CLEAR	IBC INTERNATIONAL BUILDING CODE	SHT SHEET
CMU CONCRETE MASONRY UNIT	ID INSIDE DIAMETER	SHTG SHEATHING
COL COLUMN	IE INVERT ELEVATION	SIM SIMILAR
CONC CONCRETE	IF INSIDE FACE	SOG SLAB-ON-GRADE
CONN CONNECTION	IN INCH	SPEC SPECIFICATION
CONST CONSTRUCTION	INFO INFORMATION	SQ SQUARE
CONT CONTINUOUS	INT INTERIOR	SS STAINLESS STEEL
COORD COORDINATE	JST JOIST	STD STANDARD
CTR CENTER	JT JOINT	STIFF STIFFENER
CY CUBIC YARD	K KIP (1,000 LBS.)	STIRR STIRRUP
DBA DEFORMED BAR ANCHOR	KSF KIPS PER SQUARE FOOT	STL STEEL
DBL DOUBLE	LF LINEAL FOOT	STRUCT STRUCTURAL
DCW DEMAND CRITICAL WELD	LH LONG FACE HORIZONTAL	SUPP SUPPORT
DEMO DEMOLISH	LLH LONG LEG HORIZONTAL	SYM SYMMETRICAL
DET DETAIL	LLV LONG LEG VERTICAL	T&B TOP AND BOTTOM
DF DOUGLAS FIR	LNGT LONGITUDINAL	T&G TONGUE AND GROOVE
DIA DIAMETER	LP LOW POINT	T.O. TOP OF THICK(NESS)
DIAG DIAGONAL	LSL LAMINATED STRAND LUMBER	THRU THROUGH
DKG DECKING	LVL LAMINATED VENEER LUMBER	TRANS TRANSVERSE
DN DOWN	MAX MAXIMUM	TYP TYPICAL
DWF DEFORMED WIRE FABRIC	MECH MECHANICAL	UNO UNLESS NOTED OTHERWISE
DWG DRAWING	MFR MANUFACTURER	UT ULTRASONIC TESTING
DWL DOWEL	MIN MINIMUM	VERT VERTICAL
EA EACH	MISC MISCELLANEOUS	VIF VERIFY IN FIELD
EF EACH FACE	NIC NOT IN CONTRACT	W WITH
EL ELEVATION	NO NUMBER	W/O WITHOUT
ELECT ELECTRICAL	NOM NOMINAL	WD WOOD
ELEV ELEVATOR	NS NEAR SIDE	WF WIDE FLANGE
EN PANEL EDGE NAILING	NS NONSHRINK	WHS WELDED HEADED STUD
EQ EQUAL OR EQUIPMENT	NTS NOT TO SCALE	WP WORK POINT
ES EACH SIDE	OC ON CENTER	
	OD OUTSIDE DIAMETER	

6 STRUCTURAL DRAWING SYMBOLS

10	GRIDLINE		CONCRETE WALL
	SURFACE - SLOPE UP		CMU WALL
	SURFACE - STEPPED		WALL ABOVE
	SURFACE - SLOPE DOWN		WALL BELOW
	SURFACE - SLOPE TWO WAYS		
	UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE.		
	NORTH ARROW		
	DETAIL SYMBOL		
	BUILDING SECTION CUTS		
	ELEVATION OF WALL OR FRAME		
	DETAIL SECTION		
	SPOT ELEVATION AS INDICATED T.O. DECK T.O. CONG. T.O. STEEL T.O. PLY DECK BRG		
	ELEVATION OF LEVEL		
	WORKPOINT		
	DIRECTION OF DOWNWARD SLOPE		

ISOMETRIC VIEWS



Project:
TFSD DISTRICT WIDE HVAC
REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
ABBREVIATIONS, SYMBOLS AND SHEET
INDEX

Revisions:

Project No: 1021240011
Drawn By: DC79K
Checked By: JW
Date: 02/27/2025

Sheet No:
S0.00

BID SET

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:**ROOF LIVE LOADS:**

ROOF 20 PSF (REDUCIBLE)

ROOF SNOW LOADS: (SECTION 1603.1.3 OF THE CODE):

GROUND SNOW LOAD: $P_g = 15$ PSF
 FLAT ROOF SNOW LOAD: $P_f = 12$ PSF
 MINIMUM SNOW LOAD: $P_m = 25$ PSF
 SNOW EXPOSURE FACTOR: $C_e = 1.0$
 SNOW LOAD IMPORTANCE FACTOR: $I_s = 1.1$
 SLOPE FACTOR: $C_d = 1.0$
 THERMAL FACTOR: $C_t = 1.0$

RAIN LOADS:

RAIN INTENSITY: $i = 1.0$ in/hr

WIND DESIGN DATA:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.
 RISK CATEGORY: III
 BASIC WIND SPEED: $V = 110$ MPH (3-SECOND GUST)
 WIND EXPOSURE: C
 INTERNAL PRESSURE COEFFICIENT: $G_q = \pm 0.18$

COMPONENTS & CLADDING WIND PRESSURES (ORIGINAL)				
LOCATION	ZONE	COMPONENT TRIBUTARY AREA (SQ FT)		
		10	50	100
ROOF	ZONE 1	12.2/-47.6	10.4/-40.4	9.6/-37.2
	ZONE 2	12.2/-62.7	10.4/-53.4	9.6/-49.4
	ZONE 3	12.2/-85.5	10.4/-66.9	9.6/-58.8
WALLS	ZONE 4	29.9/-32.4	26.8/-29.2	25.4/-28.0
	ZONE 5	29.9/-40.0	26.8/-33.8	25.4/-31.0
PARAPETS	ZONE 4	92.7/-62.3	80.2/-56.0	74.8/-53.4
	ZONE 5	115.5/-69.9	93.6/-60.5	84.2/-56.4

COMPONENTS & CLADDING WIND PRESSURES (ADDITION)				
LOCATION	ZONE	COMPONENT TRIBUTARY AREA (SQ FT)		
		10	50	100
ROOF	ZONE 1	10.8/-42.0	9.2/-35.6	8.5/-32.8
	ZONE 2	10.8/-55.3	9.2/-47.1	8.5/-43.6
	ZONE 3	10.8/-75.4	9.2/-58.9	8.5/-51.8
WALLS	ZONE 4	26.4/-28.6	23.6/-25.8	22.4/-24.7
	ZONE 5	26.4/-35.2	23.6/-29.8	22.4/-27.3
PARAPETS	ZONE 4	81.7/-54.9	70.7/-49.4	65.9/-47.1
	ZONE 5	101.8/-61.6	82.5/-53.4	74.2/-49.7

EARTHQUAKE DESIGN DATA:

SITE AND OCCUPANCY PARAMETERS	
SEISMIC IMPORTANCE FACTOR	$I_e = 1.25$
RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	$S_s = 0.192$ $S_1 = 0.082$
SITE CLASS	D-DEFAULT
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	$S_{DS} = 0.205$ $S_{D1} = 0.131$
SEISMIC DESIGN CATEGORY	B

BUILDING PARAMETERS (ORIGINAL)	
SEISMIC FORCE RESISTING SYSTEM	ORDINARY PLAIN MASONRY SHEAR WALLS (BEARING)
SEISMIC RESPONSE COEFFICIENTS	$C_s = 0.171$
RESPONSE MODIFICATION FACTOR	$R = 1.5$
SYSTEM OVERSTRENGTH FACTOR	$O_b = 2.5$
DEFLECTION AMPLIFICATION FACTOR	$C_d = 1.25$
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR	$V = 424.4$ KIPS

BUILDING PARAMETERS (ADDITION)	
SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAME (WOOD) WALLS WITH SHEAR PANELS OF ALL MATERIALS
SEISMIC RESPONSE COEFFICIENTS	$C_s = 0.128$
RESPONSE MODIFICATION FACTOR	$R = 2.0$
SYSTEM OVERSTRENGTH FACTOR	$O_b = 2.5$
DEFLECTION AMPLIFICATION FACTOR	$C_d = 2.0$
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR	$V = 93.9$ Kips

GENERAL:**STRUCTURAL DRAWINGS:**

- STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH OTHER DRAWINGS, SPECIFICATIONS, AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT.
- REVIEW AND COORDINATE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS AND REFERENCED STANDARDS:

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

2018 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL EXISTING BUILDING CODE (IEBC) WITH LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

- ASTM SPECIFICATIONS AND REFERENCED STANDARDS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

EXISTING CONDITIONS:

- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.
- INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.

TEMPORARY CONDITIONS:

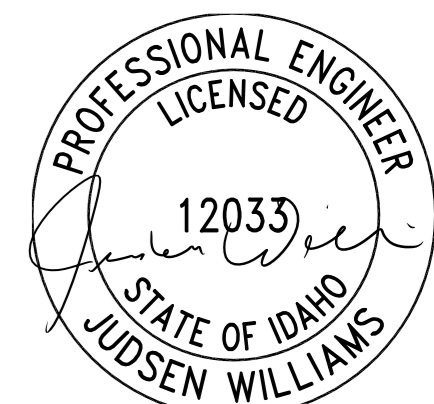
- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
- SPREAD OUT CONSTRUCTION MATERIALS IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OTHER DRAWINGS:

- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
 - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
 - SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
 - SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
 - FLOOR AND ROOF FINISHES
 - MISCELLANEOUS DRAINAGE AND WATERPROOFING
 - ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
 - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
 - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

SPECIAL INSPECTION AND TESTING:

- SPECIAL INSPECTION WILL BE PROVIDED BY A THIRD-PARTY TESTING AGENCY, RETAINED BY THE OWNER TO VERIFY COMPLIANCE WITH ITEMS SUMMERIZED IN THE STATEMENT OF SPECIAL INSPECTION.
- CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.



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Project:
TFSD DISTRICT WIDE HVAC
REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
GENERAL STRUCTURAL NOTES

Revisions:

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Sheet No: **S1.00**

BID SET

GENERAL STRUCTURAL NOTES

ROUGH CARPENTRY:

GENERAL:

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED

PRODUCTS:

2. DIMENSIONAL LUMBER FRAMING:
 - A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

DIMENSIONAL LUMBER			
USE	SPECIES	GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)

3. FIRE-RETARDANT-TREATED MATERIALS

- A. APPLICATION: TREAT ALL LUMBER IN 3 HOUR FIRE RATED WALLS AND EXTERIOR WALLS IN TYPE III CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.

4. ENGINEERED WOOD PRODUCTS:

- A. STRUCTURAL COMPOSITE LUMBER MADE FROM WOOD VENEERS WITH GRAIN PRIMARILY PARALLEL TO MEMBER LENGTHS, EVALUATED AND MONITORED ACCORDING TO ASTM D 5458 AND MANUFACTURED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559. PROVIDE PRODUCTS THAT CONFORM TO THE FOLLOWING MINIMUM DESIGN STRESS:

STRUCTURAL COMPOSITE LUMBER			
PRODUCT TYPE & USE	FLEXURAL STRESS, F_b	SHEAR STRESS, F_v	MODULUS OF ELASTICITY
LAMINATED STRAND LUMBER (LSL)			
BEAM	2,325 psi	310 psi	1.55 x 10 ⁶ psi
COLUMN	1,700 psi	425 psi	1.3 x 10 ⁶ psi

5. FASTENERS:

1. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153.

2. NAILS: ASTM F 1667, COMMON TYPE.

6. WOOD CONNECTORS:

- A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC. AS INDICATED ON THE DRAWINGS.
- B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.

EXECUTION:

1. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL U.N.O.

2. JOIST BLOCKING AND BRIDGING:

- A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS.
- B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX, NOT MORE THAN 8'-0" FROM SUPPORT.

3. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.

4. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

5. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH TABLE 2304.10.1 OF THE CODE AND THE ICC-ES REPORT FOR THE FASTENER.

6. INSTALL WOOD CONNECTORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE ICC-ES REPORT.

STRUCTURAL STEEL:

GENERAL:

1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING PROVISIONS:

- A. AISC 303 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
- B. AISC 360 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
- C. AISC 341 - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
- D. RCSC's - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"

2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS:

- A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"

3. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360 SECTION J2.2b.

PRODUCTS:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

TYPE	ASTM SPECIFICATION
W SHAPES AND WT SHAPES	A992 OR A913, GR 50 (S75)
ANGLES & CHANNELS	A36
PLATES & BARS	A36 A572, GR 50 (WHERE INDICATED)
PIPE SECTIONS	A53, GR B
HSS SECTIONS	A500 GR B A1085 (WHERE INDICATED)
CORROSION RESISTANT STEEL (WHERE INDICATED)	A588 GR 50 (FOR ROLLED SHAPES) A847 (FOR HSS)
HIGH STRENGTH BOLTS (AS INDICATED IN DETAILS)	A325 OR F1862 (TWIST-OFF TYPE) A490 OR F2280 (TWIST-OFF TYPE)
ANCHOR RODS	F1554 GR 55 F1554 GR 36/105 (WHERE INDICATED)
COMMON MACHINE BOLTS	A307, GR A
SHEAR CONNECTORS	A108, GRADES 1015 TROUGH 1020 AWS D1.1, TYPE B

EXECUTION:

1. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTIBILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.

2. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED IN DRAWINGS. OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.

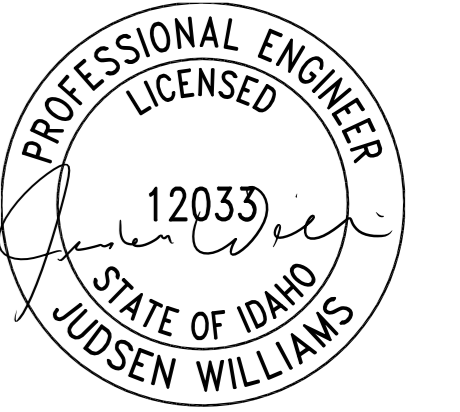
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Project:
TFSD DISTRICT WIDE HVAC
REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
GENERAL STRUCTURAL NOTES

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S1.01

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

Table with columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, INSPECTION CODE OR STANDARD REFERENCE, FREQUENCY (NOTE 8) OBSERVE PERFORM, REMARKS. Includes sections for STEEL, INSPECTION TASKS PRIOR TO WELDING, INSPECTION TASKS DURING WELDING, INSPECTION TASKS AFTER WELDING, INSPECTION TASKS PRIOR TO BOLTING, INSPECTION TASKS DURING BOLTING, INSPECTION TASKS AFTER BOLTING, and INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION.

TABLE 3 - REQUIRED STRUCTURAL TESTING

Table with columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, TESTING CODE OR STANDARD REFERENCE, FREQUENCY CONTINUOUS PERIODIC, REMARKS. Includes sections for STEEL and ARCHITECTURAL.

TABLE N2 - REQUIRED NONSTRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

Table with columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, TESTING CODE OR STANDARD REFERENCE, FREQUENCY CONTINUOUS PERIODIC, REMARKS. Includes sections for ARCHITECTURAL, ELECTRICAL, PROCESS MECHANICAL AND PLUMBING, and BUILDING MECHANICAL AND PLUMBING.

TABLE N4 - REQUIRED NONSTRUCTURAL TESTING FOR SEISMIC RESISTANCE

Table with columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, TESTING CODE OR STANDARD REFERENCE, FREQUENCY CONTINUOUS PERIODIC, REMARKS. Includes section for MECHANICAL AND ELECTRICAL.

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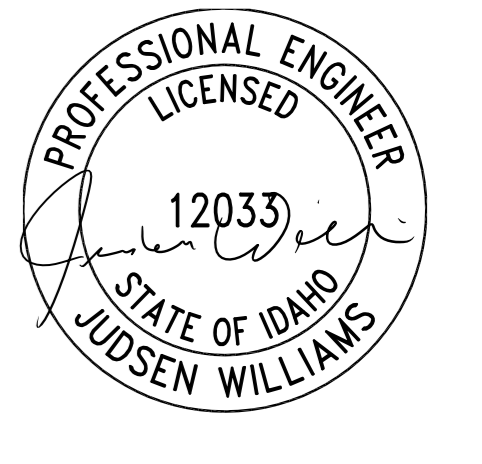
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Project: TFSO DISTRICT WIDE HVAC REPLACEMENT; LINCOLN ELEMENTARY SCHOOL, 238 BUHL ST N, TWIN FALLS, ID 83301

Sheet: STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

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Sheet No: S1.02

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING - CONTINUED

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE IBC AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
2. REFERENCE CODES AND STANDARDS ARE THOSE REFERENCED IN CHAPTER 35 OF THE CODE.
3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 929 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), AND ASTM E 543 (NON-DESTRUCTIVE). SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL. "STRUCTURAL" "ENGINEER" "ARCHITECT", CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/ACI/EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS:
 - FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE.
 - FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/ACI/EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURERS' INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.
 - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
 - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
8. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.
9. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.

* CASTELLATED BEAM POST TESTING REQUIREMENTS:

1. PROVIDE ULTRASONIC TESTING ON THE GREATER OF 20% OF ALL WELDS OR FOUR WEB POST WELDS AT EACH CASTELLATED BEAM. THIS SHALL INCLUDE THE FIRST WEB POST AT EACH END OF THE BEAM AS WELL AS A MINIMUM OF TWO ADDITIONAL WEB POST WELDS SELECTED AT RANDOM FROM THE INTERIOR OF EACH BEAM SPAN. ULTRASONIC TESTING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 CRITERIA AND SHALL BE EVALUATED AGAINST ACCEPTANCE CRITERIA FOR STATICALLY LOADED STRUCTURES.
2. FREQUENCY OF ULTRASONIC TESTING MAY BE REDUCED TO TWO MINIMUM WEB POSTS AT EACH BEAM ONCE A MINIMUM OF TEN BEAMS HAVE BEEN TESTED WITH OUT REJECTABLE FLAWS. TESTS SHALL INCLUDE ONE OF THE END WEB POSTS AND ONE POST SELECTED AT RANDOM ON EACH SUBSEQUENT BEAM.
3. WHERE REJECTABLE FLAWS ARE ENCOUNTERED, THEY SHALL BE EVALUATED BY THE CELLULAR BEAM DESIGNER FOR DETERMINATION OF ANY NECESSARY REPAIRS, SUBJECT TO REVIEW AND APPROVAL BY STRUCTURAL ENGINEER.
4. WHERE REJECTABLE FLAWS ARE DETECTED AND REPAIRS ARE REQUIRED PER ITEM 3 ABOVE, 100% OF ALL WEB POST WELDS FOR THAT PARTICULAR BEAM SHALL BE TESTED, AND SAMPLING FREQUENCY FOR SUBSEQUENT BEAMS SHALL REVERT TO THE REQUIREMENTS STATED IN ITEM 1 UNTIL AN ACCEPTABLE PASS RATE CAN AGAIN BE ESTABLISHED AS NOTED IN ITEM 2.

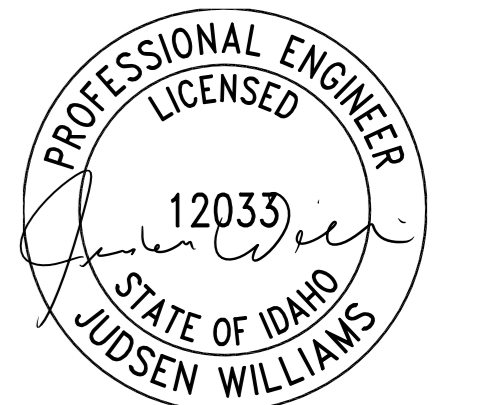
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

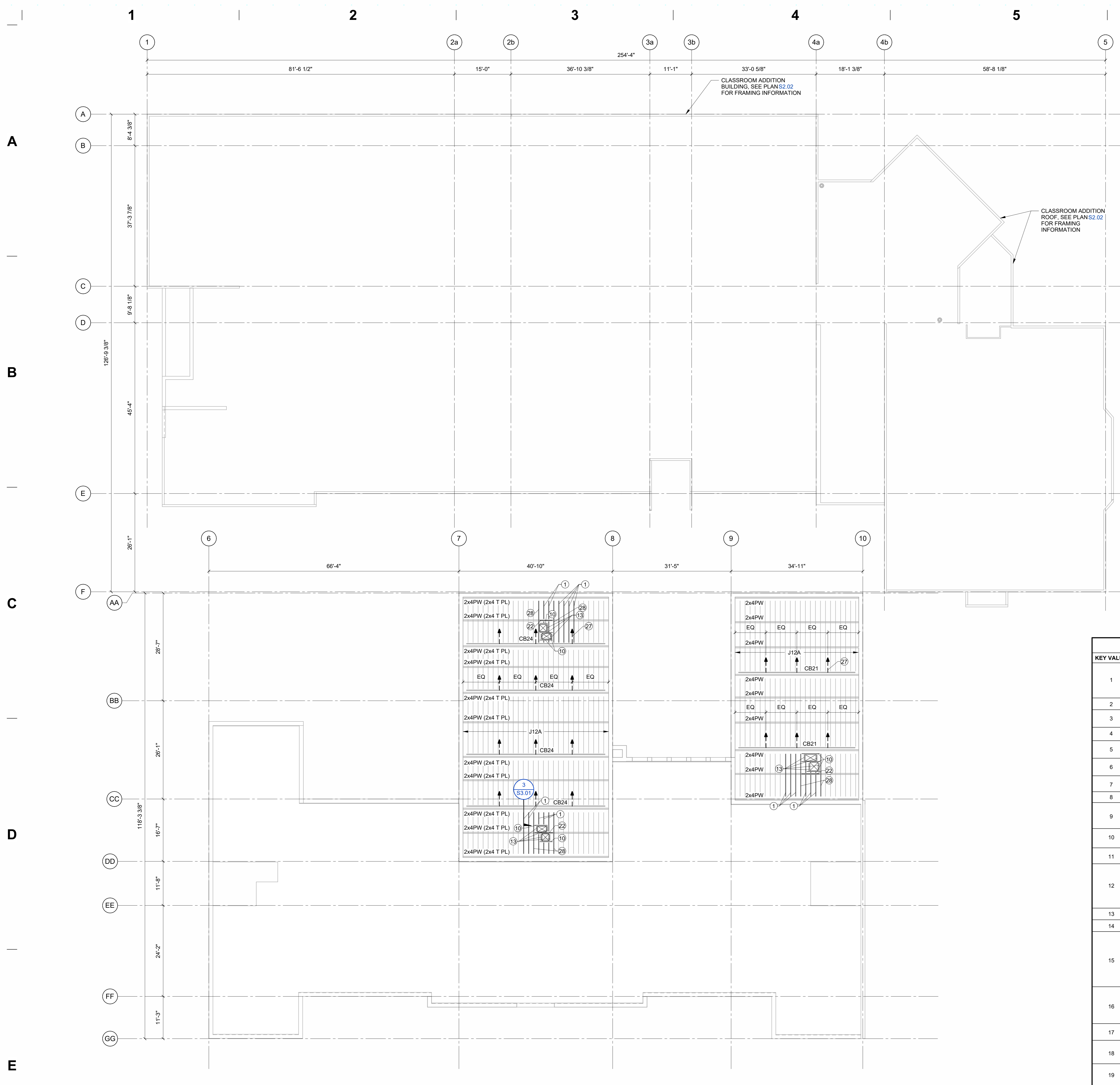
Sheet:
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

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GENERAL PLAN NOTES:

G1 REFERENCE DRAWINGS:
 S0.0X - ABBREVIATIONS, SYMBOLS AND SHEET INDEX
 S1.0X - GENERAL STRUCTURAL NOTES & STATEMENT OF WORK
 S2.0X - ROOF FRAMING PLANS
 S3.0X - RETROFIT DETAILS

G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS

G3 CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY STRUCTURAL ELEMENTS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.

PLAN NOTES:

S1 [Symbol] INDICATES AREA WHERE RETROFITS TO (E) FLOOR/ROOF FRAMING IS REQUIRED. (E) SHEATHING TO BE REMOVED FOR JOIST RETROFITS IN SHADED AREA. REPLACE WITH (N) 3/4" THICK OSB (FOR FLOOR SHEATHING) AND (N) 5/8" THICK OSB (FOR ROOF SHEATHING) UNO ON PLAN. PROVIDE 0.148" DIA WITH 1 1/2" MINIMUM PENETRATION @ 8" OC (EDGE NAILING) AND 12" OC (FIELD NAILING). TYP. UNO FOR (N) SHEATHING TO STRUCTURE ATTACHMENT.

S2 [Symbol] (E) BEAM/JOIST, SEE SCHEDULE.

S3 [Symbol] (E) POST, SEE SCHEDULE.

S4 [Symbol] (N) BEAM/JOIST.

S5 [Symbol] (N) POST/COLUMN.

S6 [Symbol] (N) DUCTWORK ON ROOF PER MECHANICAL DRAWINGS.

S7 [Symbol] INDICATES HOLD-DOWN AND END STUDS PER S3.03

(E) PONY WALL SCHEDULE

TYPE	TOP PL	BOT PL	POSTS
2x4PW	2x4	2x4	2x4 @ 16" O.C.
2x4PW (4x4 T PL)	4x4	2x4	2x4 @ 16" O.C.

(E) BEAM SCHEDULE

TYPE	DESCRIPTION
G16	GL 5-1/8"x16-1/2"
G12	GL 5-1/8"x12"
G12.3	GL 3-1/8"x12"
CB24	C.B. 24"-76# I (STEEL BEAM)
CB21	C.B. 21"-68# I (STEEL BEAM)
W12	W12x22
W14	W14x26

(E) JOISTS SCHEDULE

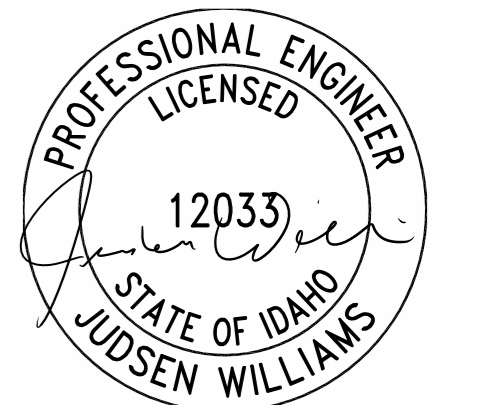
TYPE	DESCRIPTION
J4	2x4 @ 24" OC
J10	2x10 @ 24" OC
J12A	2x12 JOISTS @ 16" OC
J12B	2x12 JOISTS @ 12" OC
J14	2x14 JOISTS @ 16" OC
J16A	2x16 JOISTS @ 16" OC
J16B	2x16 JOISTS @ 12" OC
R6	2x6 RAFTERS @ 16" OC OVER PONY WALL
R7	2x6 RAFTERS @ 12" OC OVER PONY WALL
T24	24" T.J.H @ 48" OC
T20	20" T.J.L @ 32" OC
T22	22" T.J.L @ 32" OC
T16	16" T.J.I @ 32" OC
T10	10" T.J.I @ 24" OC
T14	14" T.J.I @ 24" OC
T24L	24" T.J.L @ 32" OC

(E) POST/COLUMN SCHEDULE

TYPE	DESCRIPTION
P3	3" PIPE
P2	2 1/2" PIPE
S2	(2) 2x6 STUDS
S4	(4) 2x6 STUDS
S5	(2) 2x4 STUDS
S6	(4) 2x4 STUDS

KEY NOTES

KEY VALUE	KEYNOTE TEXT	KEY VALUE	KEYNOTE TEXT
1	SISTER (E) 2x JOIST WITH (N) 2x PER 1/S3.00, TYP. BELOW (N) RTU UNITS. (E) CROSS-BRIDGING WILL NEED TO BE RE-ATTACHED TO SISTERED JOISTS. MATCH (E) CROSS-BRIDGING SPACING.	21	CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED DURING FRAMING INSTALLATION AROUND NEW OPENING.
2	(N) RTU, MAX WEIGHT = 1000 LBS	22	(N) 4x12 ATTACH TO SISTERED 2x W/ SIMPSON FACE MOUNT HANGERS.
3	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (3) 2x4 @ EA JOIST BEARING	23	(E) PONY WALL W/OVER (E) BRICK WALL TO SHEATHED WITH 3/4" OSB SHEATHING, TYP. ENTIRE LENGTH. SEE DETAIL 3/S3.03
4	(E) 13" BRICK WALL	24	(N) GUARD RAIL PER ARCH. SEE DETAILS 4/S3.02 & 5/S3.02
5	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (4) 2x4 @ EA JOIST BEARING	25	LOCATE RTU SUCH THAT IT IS SUPPORTED BY MINIMUM OF 3 TRUSSES BELOW. PROVIDE 2x6 BLOCKING ALIGNED BELOW ROOF CURB. BLOCKING TO ATTACH TO (E) TRUSS WITH SIMPSON LB26 TOP MOUNT HANGERS. SEE DETAIL 2/S3.02 FOR ADDL INFO.
6	(E) WOOD WALL WITH 2x6 STUDS @ 16" OC WITH 5/8" GYPSUM BOARD ON EA SIDE	26	(E) ROOF OPENING BELOW (E) MECH UNIT OPENING TO BE INFILLED AND COVERED. SEE DETAIL 1/S3.02
7	(E) WOOD WALL WITH 2x6 @ 12" OC WITH PLASTER	27	SEE DETAIL 5/S3.01 FOR CARNEGIE BEAM BRACE
8	(N) RTU, MAX WEIGHT = 1300 LBS	28	(3) 2x JOIST, SISTER (E) JOIST W/ (2) ADDITIONAL 2x MEMBERS. (1) EA SIDE OF (E) JOIST.
9	(N) RTU, MAX WEIGHT = 950 LBS. SEE DETAIL 3/S3.02 FOR INFORMATION ON MECH OPENING IN (E) ROOF.	29	(N) OPENING IN (E) BEARING WALL, FRAME (N) OPENING PER 4/S3.00 & 5/S3.00
10	(N) (2) 2x JOIST, MATCH (E) RAFTER/JOIST SIZE	30	(E) DOUBLE T.J.I, CONTRACTOR TO FIELD VERIFY IF T.J.I IS NOT DOUBLED UP. SISTER (N) 10" T.J.I TO (E) 10" T.J.I.
11	(E) SKYLIGHT OPENING TO REMAIN	31	(N) (2) 2x6 WOOD STUD IN (E) WALL BELOW (3) 2x12 JOIST BEARING LOCATION.
12	CONTRACTOR TO FIELD VERIFY ROUTING OF (E) DUCTWORK AND ROUTE (N) DUCTWORK THROUGH EXISTING WALL OPENINGS. CONTACT SEOR IF THERE ARE ANY DISCREPANCIES FOUND DURING CONSTRUCTION.	32	(N) MECH OPENING IN (E) BRICK WALL, INSTALL (N) STEEL LINTEL PER 6/S3.01
13	(N) 2x, MATCH (E) RAFTER/JOIST SIZE	33	RIGID DUCT SUPPORT AT 30'-0" OC MAX PER 7/S3.03
14	(E) NON-BEARING WOOD WALL ABOVE	34	CONTRACTOR TO REMOVE THE (E) SHEATHING AROUND OPENING ONLY AND PROVIDE ADDITIONAL FRAMING TO MATCH EXISTING AS NEEDED TO SUPPORT FAN PER MECH DRAWINGS. FAN TO BE PLACED BETWEEN RAFTERS/JOISTS. DO NOT DAMAGE (E) FRAMING.
15	(N) OPENING IN (E) ROOF FOR RTU DUCT PENETRATIONS PER 2/S3.02. (N) OPENING TO BE LOCATED BETWEEN (E) ROOF TRUSSES. DO NOT DAMAGE (E) ROOF TRUSSES. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.		
16	(N) ROOF DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS. LOCATE BETWEEN (E) JOISTS/BEAMS. DO NOT DAMAGE (E) JOIST/BEAMS DURING PLACEMENT		
17	(E) 6x6 HEADER MIN OVER (E) DOOR OPENING, CONTRACTOR TO FIELD VERIFY.		
18	(E) STEEL LINTEL HEADER ABOVE (E) DOOR OPENING TO SUPPORT (E) BRICK WALL ABOVE. CONTRACTOR TO FIELD VERIFY.		
19	(E) DOUBLE T.J.I.S TO SUPPORT (N) EQUIPMENT. CONTRACTOR TO VERIFY IN FIELD.		
20	(N) RTU, MAX WEIGHT = 1550 LBS		



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HUMMEL ARCHITECTS
 205 N. 10th Street, Suite 305, Boise, Idaho 83702, 208.443.7923
 482 Constitution Way, Suite 19, Idaho Falls, ID 83402, 208.843.7923, hummelarch.com

Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LOWER ROOF - LOWER TIER FRAMING PLAN

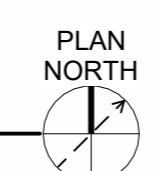
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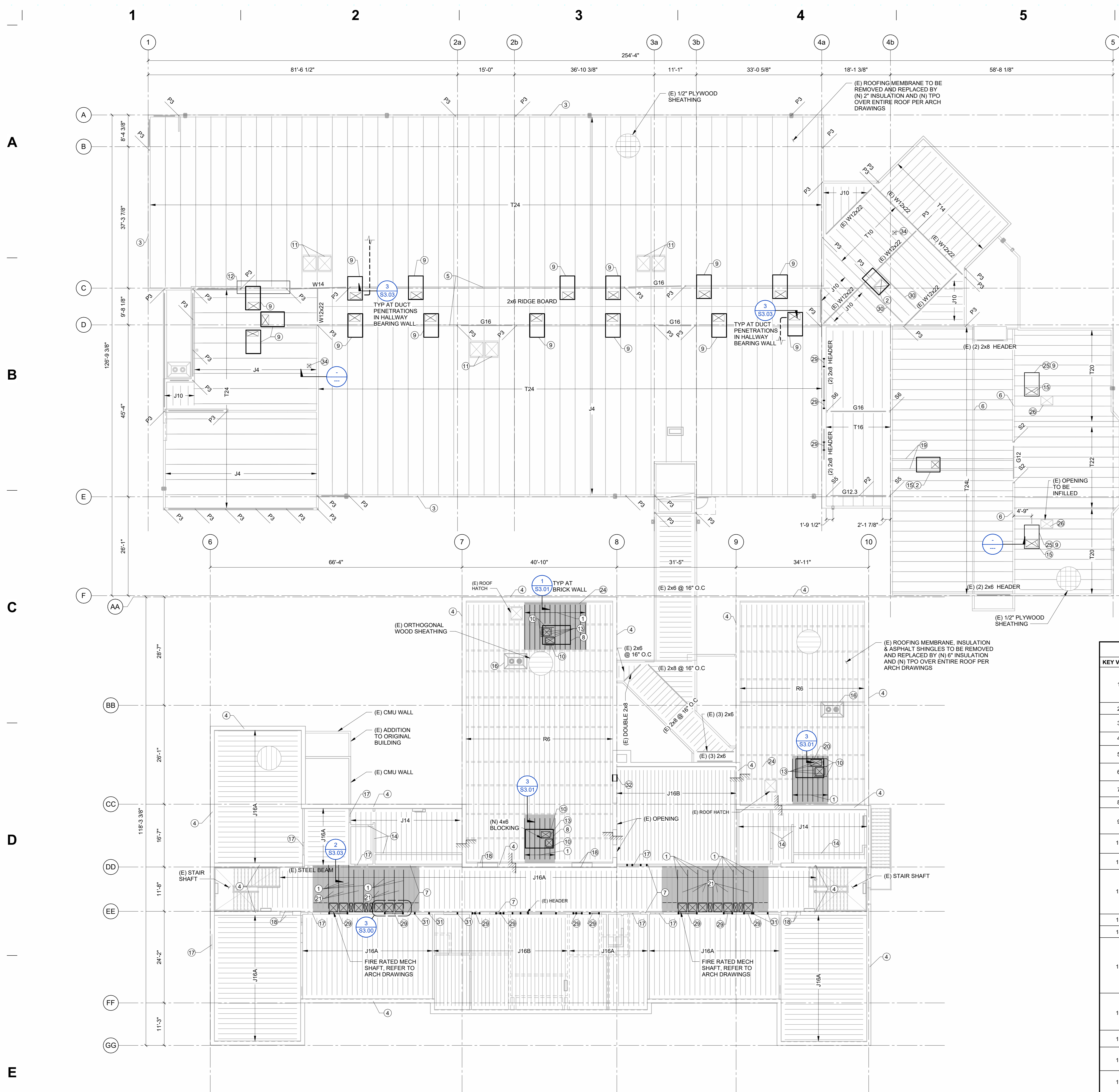
Revisions: Δ

Project No: 1021240011
 Drawn By: DC79K
 Checked By: JW
 Date: 02/27/2025

Sheet No: **S2.01**

1 LOWER ROOF - LOWER TIER FRAMING PLAN
 S2.01 3/32" = 1'-0"





- GENERAL PLAN NOTES:**
- G1 REFERENCE DRAWINGS:
 - S0.0X - ABBREVIATIONS, SYMBOLS AND SHEET INDEX
 - S1.0X - GENERAL STRUCTURAL NOTES & STATEMENT OF WORK
 - S2.0X - ROOF FRAMING PLANS
 - S3.0X - RETROFIT DETAILS
 - G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS
 - G3 CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY STRUCTURAL ELEMENTS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.

- PLAN NOTES:**
- S1 [Hatched Area] INDICATES AREA WHERE RETROFITS TO (E) FLOOR/ROOF FRAMING IS REQUIRED. (E) SHEATHING TO BE REMOVED FOR JOIST RETROFITS IN SHADED AREA. REPLACE WITH (N) 3/4" THICK OSB (FOR FLOOR SHEATHING) AND (N) 5/8" THICK OSB (FOR ROOF SHEATHING) UNO ON PLAN. PROVIDE 0.148" DIA WITH 1 1/2" MINIMUM PENETRATION @ 8" OC (EDGE NAILING) AND 12" OC (FIELD NAILING). TYP. UNO FOR (N) SHEATHING TO STRUCTURE ATTACHMENT.
 - S2 [Line with Dash] (E) BEAM/JOIST, SEE SCHEDULE.
 - S3 [Line with Dash] (E) POST, SEE SCHEDULE.
 - S4 [Line] (N) BEAM/JOIST.
 - S5 [Line] (N) POST/COLUMN.
 - S6 [Dashed Line] (N) DUCTWORK ON ROOF PER MECHANICAL DRAWINGS.
 - S7 [X] INDICATES HOLD-DOWN AND END STUDS PER S3.03

(E) PONY WALL SCHEDULE

TYPE	TOP PL	BOT PL	POSTS
2x4PW	2x4	2x4	2x4 @ 16" O.C
2x4PW (4x4 T PL)	4x4	2x4	2x4 @ 16" O.C

(E) BEAM SCHEDULE

TYPE	DESCRIPTION
G16	GL 5-1/8"x16-1/2"
G12	GL 5-1/8"x12"
G12.3	GL 3-1/8"x12"
CB24	C.B. 24"-76#1 (STEEL BEAM)
CB21	C.B. 21"-68#1 (STEEL BEAM)
W12	W12x22
W14	W14x26

(E) JOISTS SCHEDULE

TYPE	DESCRIPTION
J4	2x4 @ 24" OC
J10	2x10 @ 24" OC
J12A	2x12 JOISTS @ 16" OC
J12B	2x12 JOISTS @ 12" OC
J14	2x14 JOISTS @ 16" OC
J16A	2x16 JOISTS @ 16" OC
J16B	2x16 JOISTS @ 12" OC
R6	2x6 RAFTERS @ 16" OC OVER PONY WALL
R7	2x6 RAFTERS @ 12" OC OVER PONY WALL
T24	24" T.J. @ 48" OC
T20	20" T.J. @ 32" OC
T22	22" T.J. @ 32" OC
T16	16" T.J. @ 32" OC
T10	10" T.J. @ 24" OC
T14	14" T.J. @ 24" OC
T24L	24" T.J. @ 32" OC

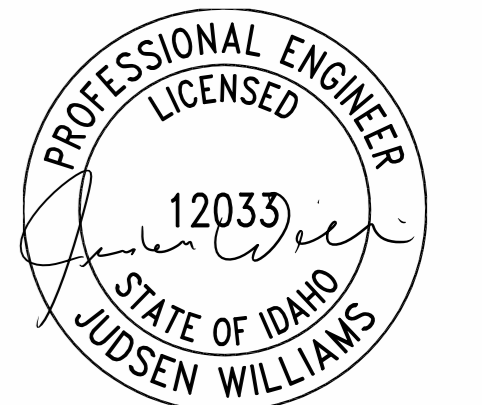
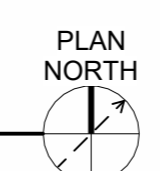
(E) POST/COLUMN SCHEDULE

TYPE	DESCRIPTION
P3	3" PIPE
P2	2 1/2" PIPE
S2	(2) 2x6 STUDS
S4	(4) 2x6 STUDS
S5	(2) 2x4 STUDS
S6	(4) 2x4 STUDS

KEY NOTES

KEY VALUE	KEYNOTE TEXT	KEY VALUE	KEYNOTE TEXT
1	SISTER (E) 2x JOIST WITH (N) 2x PER 1/S3.00. TYP. BELOW (N) RTU UNITS. (E) CROSS-BRIDGING WILL NEED TO BE RE-ATTACHED TO SISTERED JOISTS. MATCH (E) CROSS-BRIDGING SPACING.	21	CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED DURING FRAMING INSTALLATION AROUND NEW OPENING.
2	(N) RTU, MAX WEIGHT = 1000 LBS	22	(N) 4x12 ATTACH TO SISTERED 2x W/ SIMPSON FACE MOUNT HANGERS.
3	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (3) 2x4 @ EA JOIST BEARING	23	(E) PONY WALL ABOVE (E) BRICK WALL TO SHEATHED WITH 3/4" OSB SHEATHING, TYP. ENTIRE LENGTH. SEE DETAIL 3/S3.03
4	(E) 13" BRICK WALL	24	(N) GUARD RAIL PER ARCH. SEE DETAILS 4/S3.02 & 5/S3.02
5	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (4) 2x4 @ EA JOIST BEARING	25	LOCATE RTU SUCH THAT IT IS SUPPORTED BY MINIMUM OF 3 TRUSSES BELOW. PROVIDE 2x6 BLOCKING ALIGNED BELOW ROOF CURB. BLOCKING TO ATTACH TO (E) TRUSS WITH SIMPSON LB26 TOP MOUNT HANGERS. SEE DETAIL 2/S3.02 FOR ADDL INFO.
6	(E) WOOD WALL WITH 2x6 STUDS @ 16" OC WITH 5/8" GYPSUM BOARD ON EA SIDE	26	(E) ROOF OPENING BELOW (E) MECH UNIT OPENING TO BE IN-FILLED AND COVERED. SEE DETAIL 1/S3.02
7	(E) WOOD WALL WITH 2x6 @ 12" OC WITH PLASTER	27	SEE DETAIL 5/S3.01 FOR CARNEGIE BEAM BRACE
8	(N) RTU, MAX WEIGHT = 1300 LBS	28	(3) 2x JOIST, SISTER (E) JOIST W/ (2) ADDITIONAL 2x MEMBERS.
9	(N) RTU, MAX WEIGHT = 950 LBS. SEE DETAIL 3/S3.02 FOR INFORMATION ON MECH OPENING IN (E) ROOF.	29	(N) OPENING IN (E) BEARING WALL. FRAME (N) OPENING PER 4/S3.00 & 5/S3.00
10	(N) (2) 2x JOIST, MATCH (E) RAFTER/JOIST SIZE	30	(E) DOUBLE T.J. CONTRACTOR TO FIELD VERIFY IF T.J. IS NOT DOUBLED UP. SISTER (N) 10" T.J. TO (E) 10" T.J.
11	(E) SKYLIGHT OPENING TO REMAIN	31	(N) (2) 2x6 WOOD STUD IN (E) WALL BELOW (3) 2x12 JOIST BEARING LOCATION.
12	CONTRACTOR TO FIELD VERIFY ROUTING OF (E) DUCTWORK AND ROUTE (N) DUCTWORK THROUGH EXISTING WALL OPENINGS. CONTACT SEOR IF THERE ARE ANY DISCREPANCIES FOUND DURING CONSTRUCTION.	32	(N) MECH OPENING IN (E) BRICK WALL. INSTALL (N) STEEL LINTEL PER 6/S3.01
13	(N) 2x. MATCH (E) RAFTER/JOIST SIZE	33	RIGID DUCT SUPPORT AT 30'-0" OC MAX PER 7/S3.03
14	(E) NON-BEARING WOOD WALL ABOVE	34	CONTRACTOR TO REMOVE THE (E) SHEATHING AROUND OPENING ONLY AND PROVIDE ADDITIONAL FRAMING TO MATCH EXISTING AS NEEDED TO SUPPORT FAN PER MECH DRAWINGS. FAN TO BE PLACED BETWEEN RAFTERS/JOISTS. DO NOT DAMAGE (E) FRAMING.
15	(N) OPENING IN (E) ROOF FOR RTU DUCT PENETRATIONS PER 2/S3.02. (N) OPENING TO BE LOCATED BETWEEN (E) ROOF TRUSSES. DO NOT DAMAGE (E) ROOF TRUSSES. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.		
16	(N) ROOF DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS. LOCATE BETWEEN (E) JOISTS/BEAMS. DO NOT DAMAGE (E) JOIST/BEAMS DURING PLACEMENT		
17	(E) 6x6 HEADER MIN OVER (E) DOOR OPENING. CONTRACTOR TO FIELD VERIFY.		
18	(E) STEEL LINTEL HEADER ABOVE (E) DOOR OPENING TO SUPPORT (E) BRICK WALL ABOVE. CONTRACTOR TO FIELD VERIFY.		
19	(E) DOUBLE T.J.'S TO SUPPORT (N) EQUIPMENT. CONTRACTOR TO VERIFY IN FIELD.		
20	(N) RTU, MAX WEIGHT = 1550 LBS		

CLASSROOM ADDITION BUILDING ROOF FRAMING PLAN, ORIGINAL BUILDING LOWER ROOF - UPPER TIER & LEVEL 02 FLOOR FRAMING PLAN



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

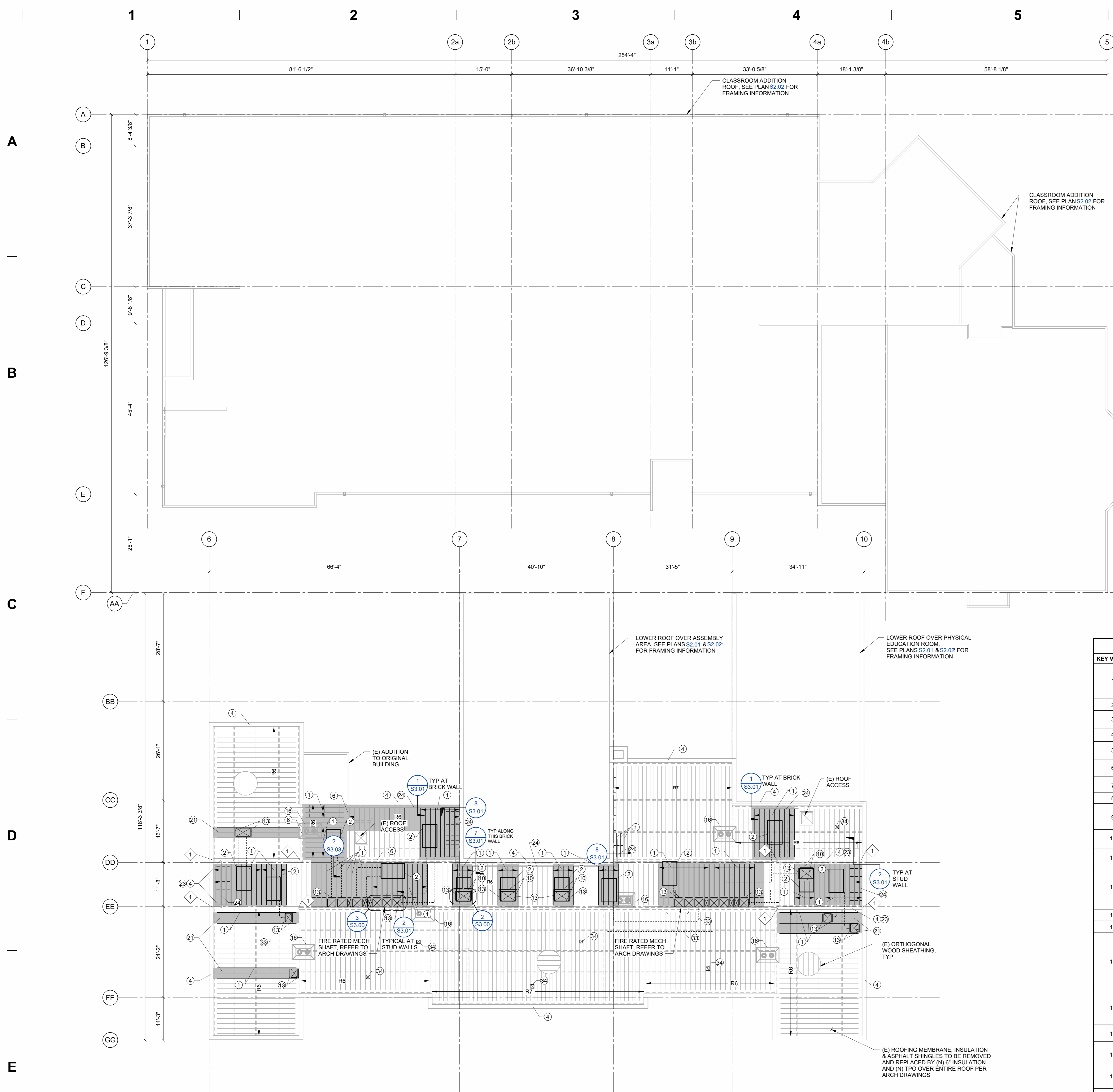
LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
CLASSROOM ADDITION BUILDING ROOF FRAMING PLAN, ORIGINAL BUILDING LOWER ROOF - UPPER TIER & LEVEL 02 FLOOR FRAMING PLAN

BID SET

Revisions:

Project No:	1021240011
Drawn By:	DC79K
Checked By:	JW
Date:	02/27/2025
Sheet No:	S2.02

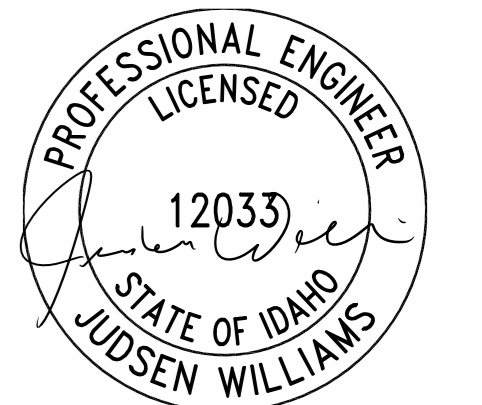


- GENERAL PLAN NOTES:**
- G1 REFERENCE DRAWINGS:
 - S0.0X - ABBREVIATIONS, SYMBOLS AND SHEET INDEX
 - S1.0X - GENERAL STRUCTURAL NOTES & STATEMENT OF WORK
 - S2.0X - ROOF FRAMING PLANS
 - S3.0X - RETROFIT DETAILS
 - G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS
 - G3 CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY STRUCTURAL ELEMENTS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
- PLAN NOTES:**
- S1 [Symbol] INDICATES AREA WHERE RETROFITS TO (E) FLOOR/ROOF FRAMING IS REQUIRED. (E) SHEATHING TO BE REMOVED FOR JOIST RETROFITS IN SHADED AREA REPLACE WITH (N) 3/4" THICK OSB (FOR FLOOR SHEATHING) AND (N) 5/8" THICK OSB (FOR ROOF SHEATHING) UNO ON PLAN. PROVIDE 0.148" DA WITH 1 1/2" MINIMUM PENETRATION @ 6" OC (EDGE NAILING) AND 12" OC (FIELD NAILING). TYP. UNO FOR (N) SHEATHING TO STRUCTURE ATTACHMENT.
 - S2 [Symbol] (E) BEAM/JOIST. SEE SCHEDULE.
 - S3 [Symbol] (E) POST. SEE SCHEDULE.
 - S4 [Symbol] (N) BEAM/JOIST.
 - S5 [Symbol] (N) POST/COLUMN.
 - S6 [Symbol] (N) DUCTWORK ON ROOF PER MECHANICAL DRAWINGS.
 - S7 [Symbol] INDICATES HOLD-DOWN AND END STUDS PER 5/53.03

(E) BEAM SCHEDULE		(E) JOISTS SCHEDULE	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
G16	GL 5-1/8"x16-1/2"	J4	2x4 @ 24" OC
G12	GL 5-1/8"x12"	J10	2x10 @ 24" OC
G12.3	GL 3-1/8"x12"	J12A	2x12 JOISTS @ 16" OC
CB24	C.B. 24"-76# I (STEEL BEAM)	J12B	2x12 JOISTS @ 12" OC
CB21	C.B. 21"-68# I (STEEL BEAM)	J14	2x14 JOISTS @ 16" OC
W12	W12x22	J16A	2x16 JOISTS @ 16" OC
W14	W14x26	J16B	2x16 JOISTS @ 12" OC
		R6	2x6 RAFTERS @ 16" OC OVER PONY WALL
		R7	2x6 RAFTERS @ 12" OC OVER PONY WALL
		T24	24" TJH @ 48" OC
		T20	20" TJL @ 32" OC
		T22	22" TJL @ 32" OC
		T16	16" TJL @ 32" OC
		T10	10" TJL @ 24" OC
		T14	14" TJL @ 24" OC
		T24L	24" TJL @ 32" OC

(E) POST/COLUMN SCHEDULE	
TYPE	DESCRIPTION
P3	3" PIPE
P2	2 1/2" PIPE
S2	(2) 2x6 STUDS
S4	(4) 2x6 STUDS
S5	(2) 2x4 STUDS
S6	(4) 2x4 STUDS

KEY NOTES			
KEY VALUE	KEYNOTE TEXT	KEY VALUE	KEYNOTE TEXT
1	SISTER (E) 2x JOIST WITH (N) 2x PER 1/53.00. TYP. BELOW (N) RTU UNITS. (E) CROSS-BRIDGING WILL NEED TO BE RE-ATTACHED TO SISTERED JOISTS. MATCH (E) CROSS-BRIDGING SPACING.	21	CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED DURING FRAMING INSTALLATION AROUND NEW OPENING.
2	(N) RTU, MAX WEIGHT = 1000 LBS	22	(N) 4x12 ATTACH TO SISTERED 2x W/ SIMPSON FACE MOUNT HANGERS.
3	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (3) 2x4 @ EA JOIST BEARING	23	(E) PONY WALL W/OVER (E) BRICK WALL TO SHEATHED WITH 3/4" OSB SHEATHING, TYP. ENTIRE LENGTH. SEE DETAIL 3/53.03
4	(E) 13" BRICK WALL	24	(N) GUARD RAIL PER ARCH. SEE DETAILS 4/53.02 & 5/53.02
5	(E) WOOD WALL WITH 2x4 STUDS @ 16" OC AND (4) 2x4 @ EA JOIST BEARING	25	LOCATE RTU SUCH THAT IT IS SUPPORTED BY MINIMUM OF 3 TRUSSES BELOW. PROVIDE 2x6 BLOCKING ALIGNED BELOW ROOF CURB. BLOCKING TO ATTACH TO (E) TRUSS WITH SIMPSON LB26 TOP MOUNT HANGERS. SEE DETAIL 2/53.02 FOR ADD'L INFO.
6	(E) WOOD WALL WITH 2x6 STUDS @ 16" OC WITH 5/8" GYPSUM BOARD ON EA SIDE	26	(E) ROOF OPENING BELOW (E) MECH UNIT OPENING TO BE IN-FILLED AND COVERED. SEE DETAIL 1/53.02
7	(E) WOOD WALL WITH 2x6 @ 12" OC WITH PLASTER	27	SEE DETAIL 5/53.01 FOR CARNEGIE BEAM BRACE
8	(N) RTU, MAX WEIGHT = 1300 LBS	28	(3) 2x JOIST, SISTER (E) JOIST W/ (2) ADDITIONAL 2x MEMBERS. (1) EA SIDE OF (E) JOIST.
9	(N) RTU, MAX WEIGHT = 950 LBS. SEE DETAIL 3/53.02 FOR INFORMATION ON MECH OPENING IN (E) ROOF.	29	(N) OPENING IN (E) BEARING WALL. FRAME (N) OPENING PER 4/53.00 & 5/53.00
10	(N) (2) 2x JOIST, MATCH (E) RAFTER/JOIST SIZE	30	(E) DOUBLE TJI, CONTRACTOR TO FIELD VERIFY IF TJI IS NOT DOUBLED UP. SISTER (N) 10" TJI TO (E) 10" TJI.
11	(E) SKYLIGHT OPENING TO REMAIN	31	(N) (2) 2x6 WOOD STUD IN (E) WALL BELOW (3) 2x12 JOIST BEARING LOCATION.
12	CONTRACTOR TO FIELD VERIFY ROUTING OF (E) DUCTWORK AND ROUTE (N) DUCTWORK THROUGH EXISTING WALL OPENINGS. CONTACT SEOR IF THERE ARE ANY DISCREPANCIES FOUND DURING CONSTRUCTION.	32	(N) MECH OPENING IN (E) BRICK WALL. INSTALL (N) STEEL LINTEL PER 6/53.01
13	(N) 2x. MATCH (E) RAFTER/JOIST SIZE	33	RIGID DUCT SUPPORT AT 30'-0" OC MAX PER 7/53.03
14	(E) NON-BEARING WOOD WALL ABOVE	34	CONTRACTOR TO REMOVE THE (E) SHEATHING AROUND OPENING ONLY AND PROVIDE ADDITIONAL FRAMING TO MATCH EXISTING AS NEEDED TO SUPPORT FAN PER MECH DRAWINGS. FAN TO BE PLACED BETWEEN RAFTERS/JOISTS. DO NOT DAMAGE (E) FRAMING.
15	(N) OPENING IN (E) ROOF FOR RTU DUCT PENETRATIONS PER 2/53.02. (N) OPENING TO BE LOCATED BETWEEN (E) ROOF TRUSSES. DO NOT DAMAGE (E) ROOF TRUSSES. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.		
16	(N) ROOF DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS. LOCATE BETWEEN (E) JOISTS/BEAMS. DO NOT DAMAGE (E) JOIST/BEAMS DURING PLACEMENT		
17	(E) 6x6 HEADER MIN OVER (E) DOOR OPENING. CONTRACTOR TO FIELD VERIFY.		
18	(E) STEEL LINTEL HEADER ABOVE (E) DOOR OPENING TO SUPPORT (E) BRICK WALL ABOVE. CONTRACTOR TO FIELD VERIFY.		
19	(E) DOUBLE TJI'S TO SUPPORT (N) EQUIPMENT. CONTRACTOR TO VERIFY IN FIELD.		
20	(N) RTU, MAX WEIGHT = 1550 LBS		



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

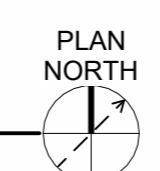
Sheet:
HIGHER ROOF - UPPER TIER FRAMING PLAN

Revisions:

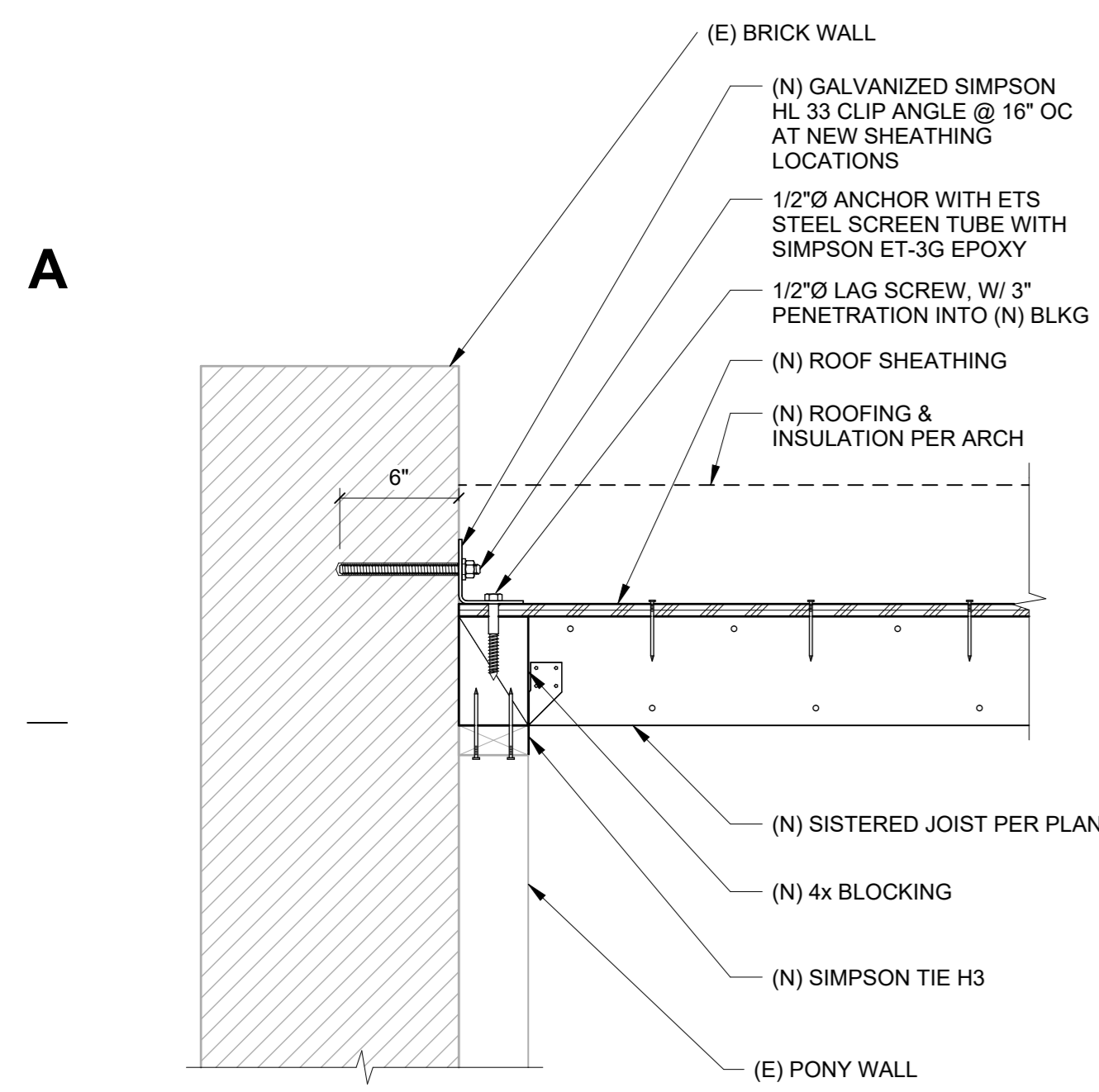
Project No: 1021240111
Drawn By: DC79K
Checked By: JW
Date: 02/27/2025

Sheet No: **S2.04**

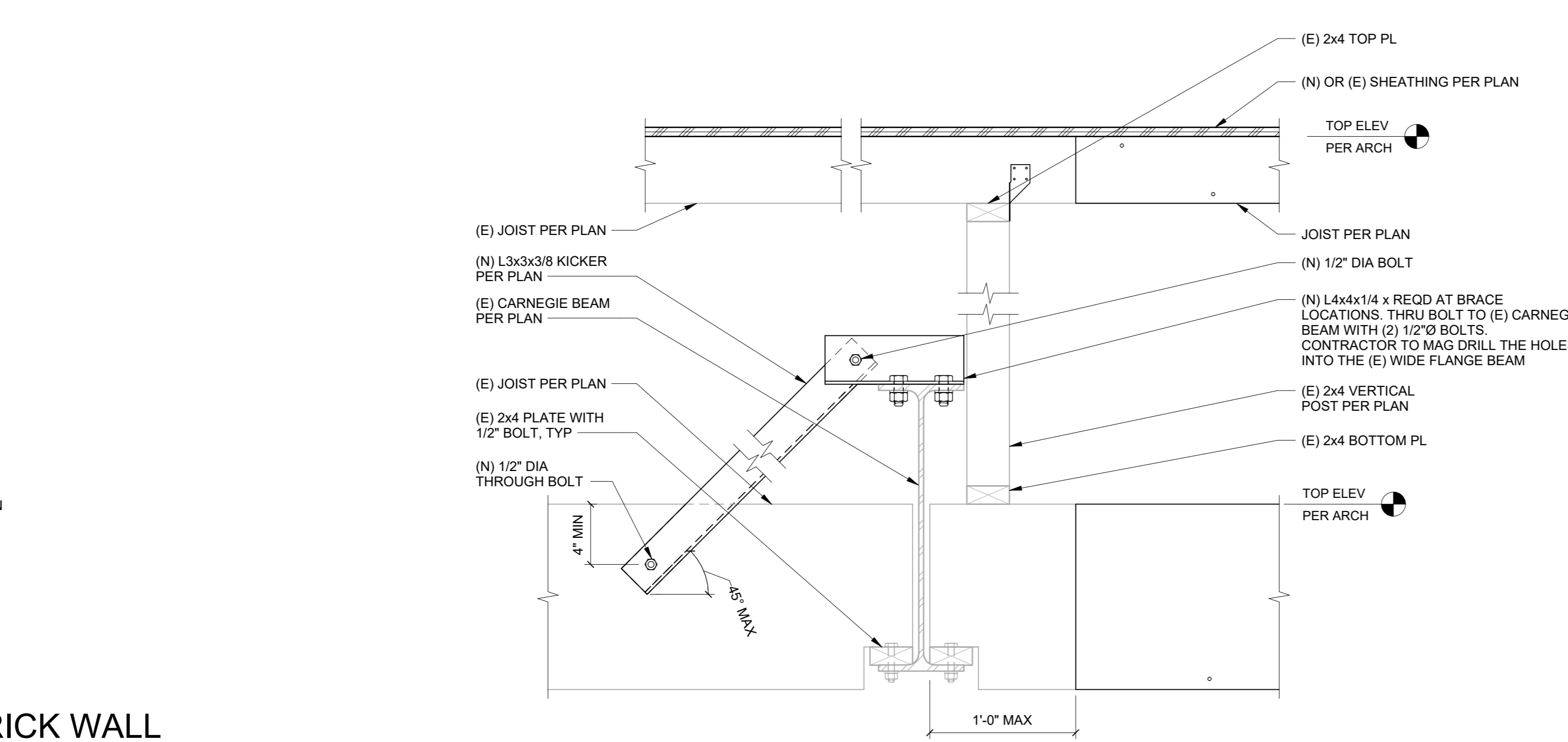
1 HIGHER ROOF - UPPER TIER FRAMING PLAN
S2.04 3/32" = 1'-0"



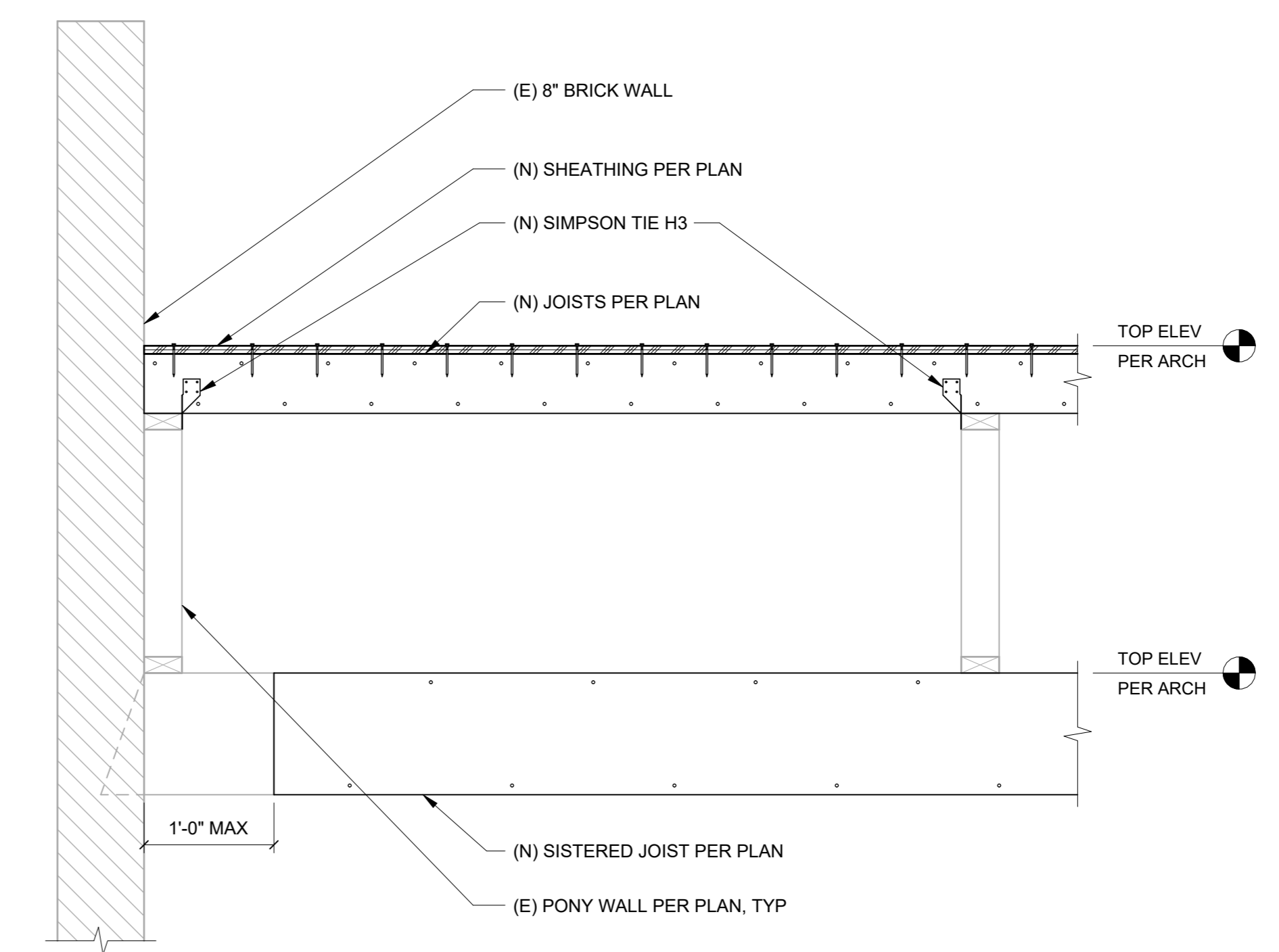
BID SET



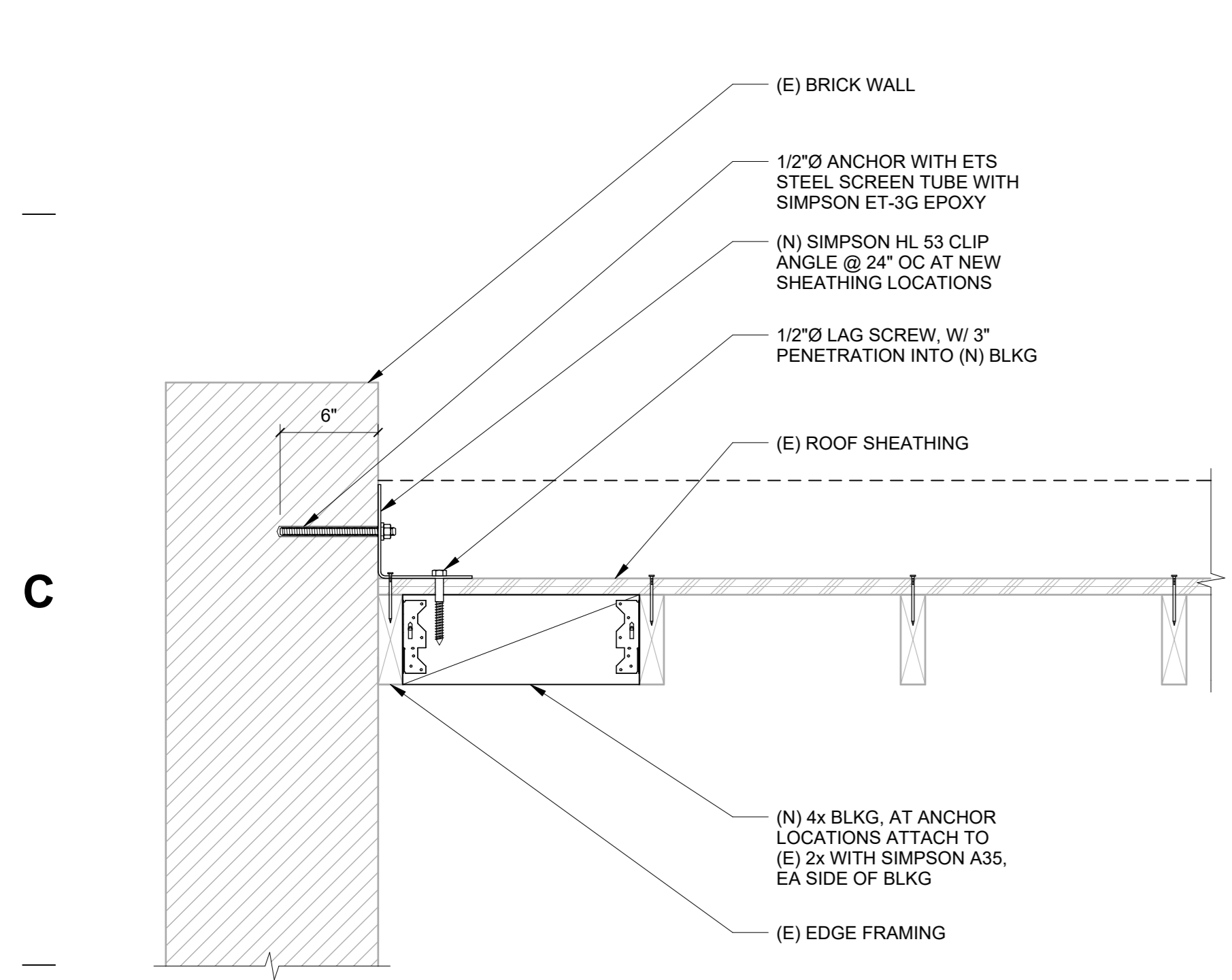
7 (E) OR (N) SHEATHING TO (E) BRICK WALL ATTACHMENT - FRAMING PERPENDICULAR TO WALL
1 1/2" = 1'-0"



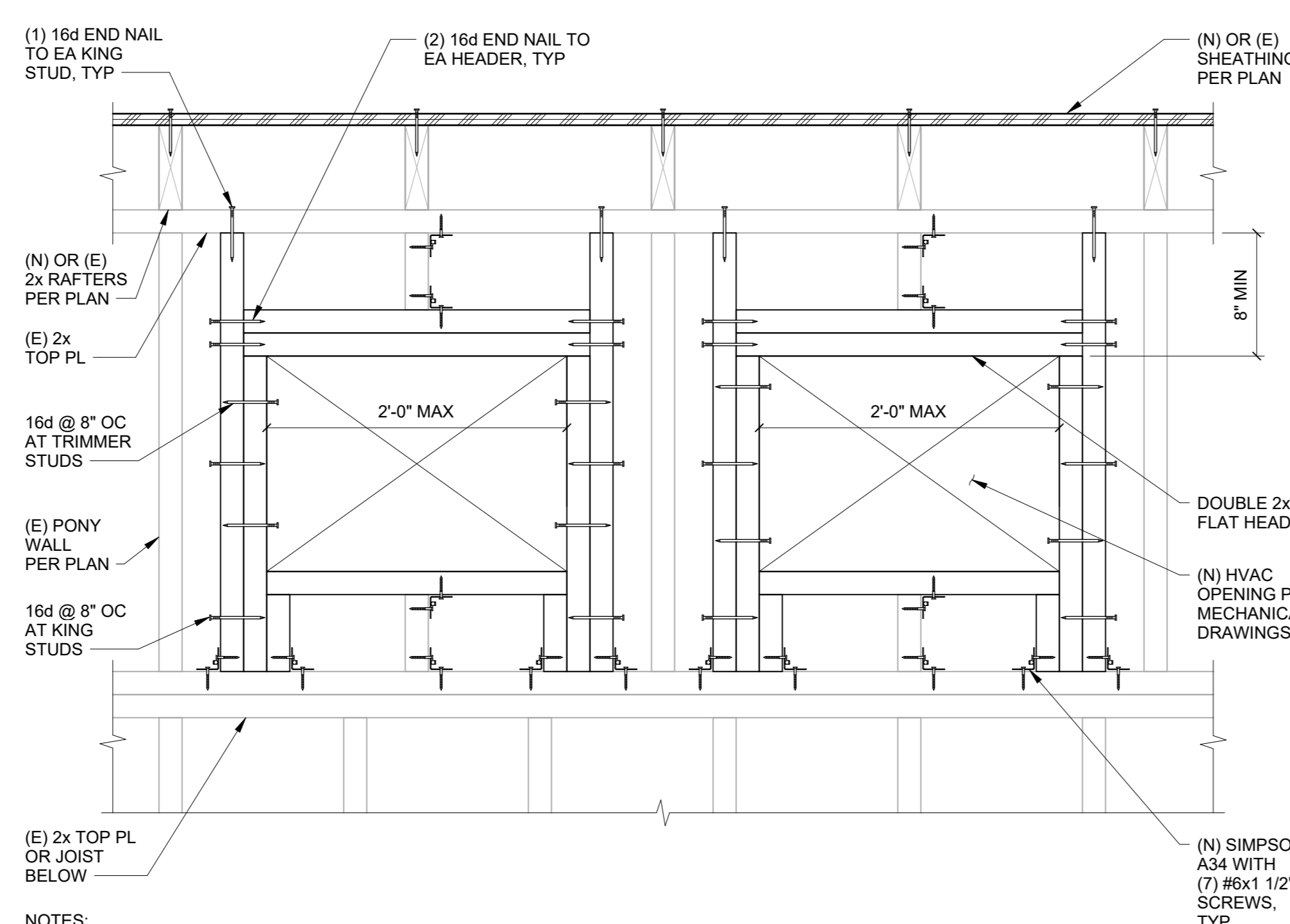
4 (E) CARNEGIE BEAM - TOP FLANGE BRACING
1 1/2" = 1'-0"



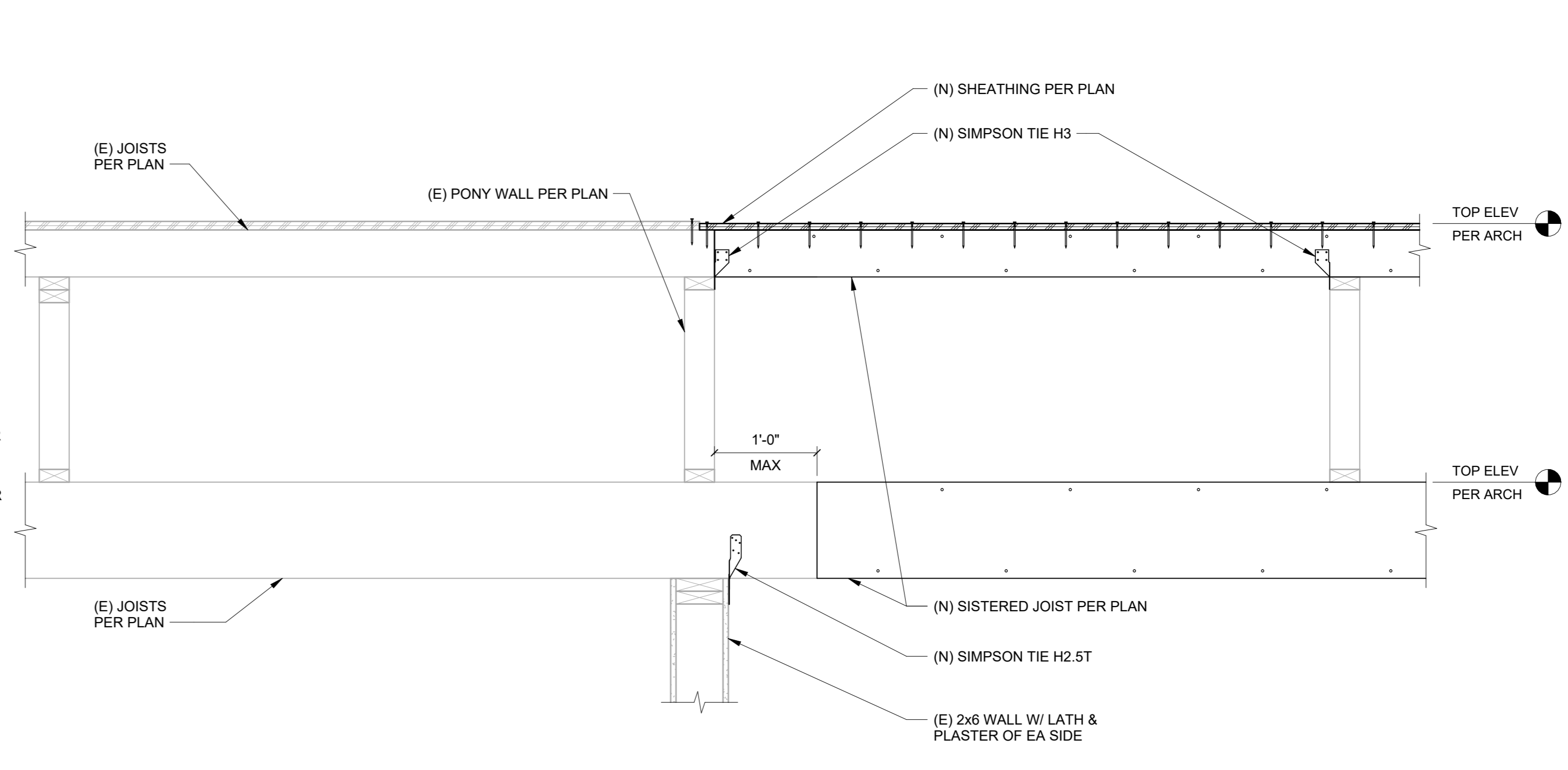
1 PONY WALL AT EXTERIOR BRICK WALL
1" = 1'-0"



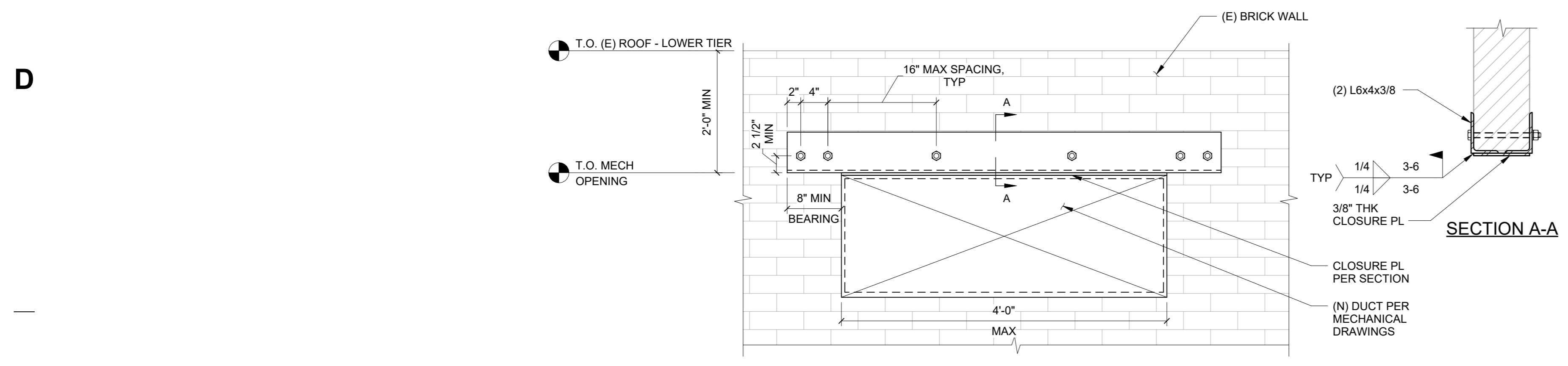
8 (E) OR (N) SHEATHING TO (E) BRICK WALL ATTACHMENT - FRAMING PARALLEL TO WALL
1 1/2" = 1'-0"



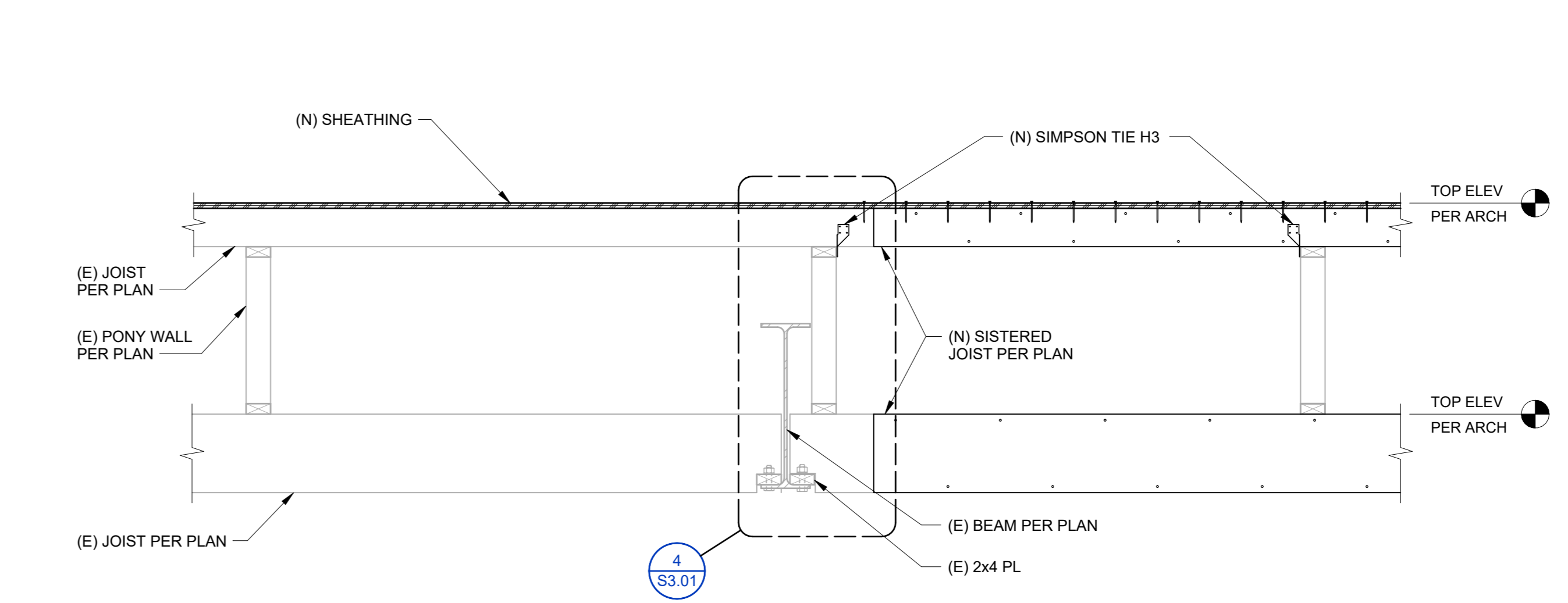
5 HVAC DUCT OPENING IN PONY WALL
1 1/2" = 1'-0"



2 PONY WALL AT INTERIOR STUD WALL
1" = 1'-0"

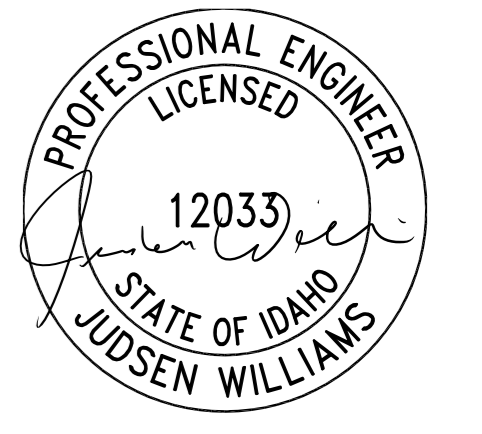


6 MECHANICAL OPENING IN (E) BRICK WALL
1" = 1'-0"



3 PONY WALL OVER CARNEGIE BEAM (CB)
3/4" = 1'-0"

NOTES:
1. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO ANY DEMOLISHING WORK AND/OR FABRICATION OF DUCTWORK. PLEASE CONTACT ARCHITECT AND SEOR IF THERE ARE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND PROPOSED MODIFICATIONS.
2. STEEL LINTEL & PLATES EXPOSED TO WEATHER TO BE HOT-DIP GALVANIZED.
3. CONTRACTOR TO INSTALL LINTEL SUPPORT PRIOR TO DEMOLISHING THE MECHANICAL OPENING BELOW.



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
RETROFIT DETAILS

Revisions: Δ

Project No: 1021240111
Drawn By: DC7YK
Checked By: JW
Date: 02/27/2025

Sheet No: **S3.01**

BID SET

1

2

3

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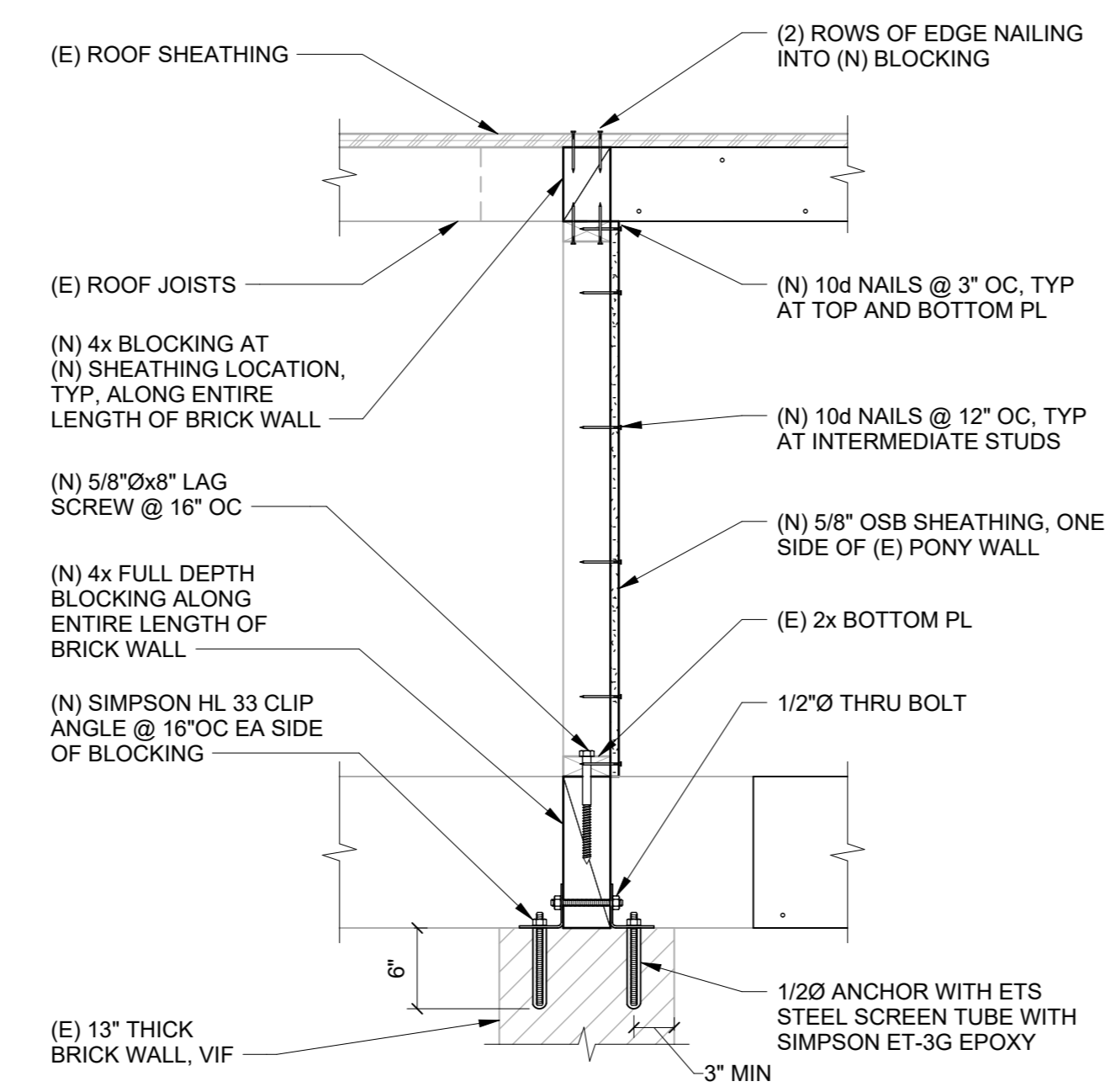
A

B

C

D

E



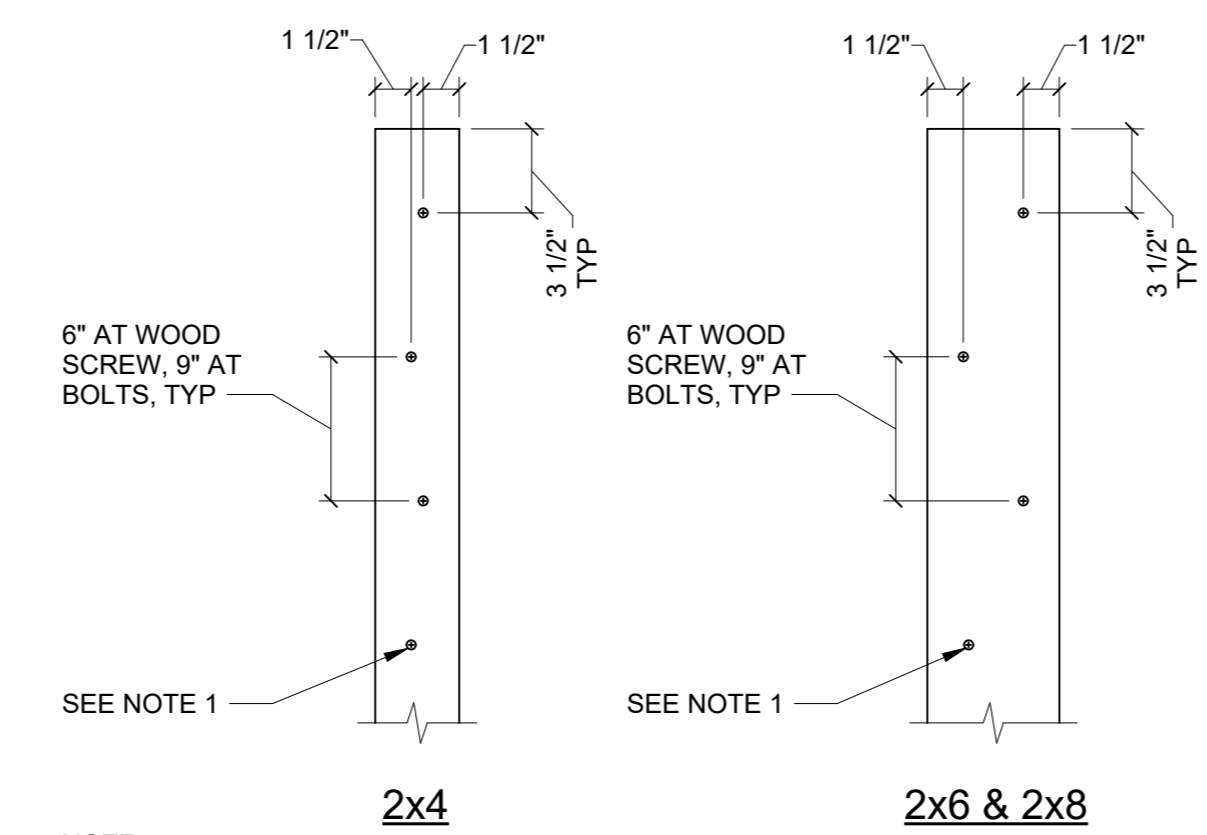
4 (N) SHEATHING AT (E) PONY WALL ABOVE (E) BRICK WALL
S3.03 1" = 1'-0"

HOLD-DOWN AND COMPRESSION STUD SCHEDULE					
TYPE MARK	HOLD-DOWN	THREADED ROD SIZE	WASHER PL SIZE	MIN ROD EMBEDMENT INTO (E) BRICK WALL, NOTE 2	COMPRESSION STUDS, SEE NOTE 1
1	HDU8-SDS2.5	5/8"Ø	3/8"x2"x0'-2"	8"	(2) 2x4 OR 4x4

NOTES:
1. FASTEN COMPRESSION STUDS TOGETHER PER 6/S3.03.
2. POST-INSTALLED ADHESIVE ANCHORS, USE SIMPSON ET-3G EPOXY SYSTEM OR EQUIVALENT.

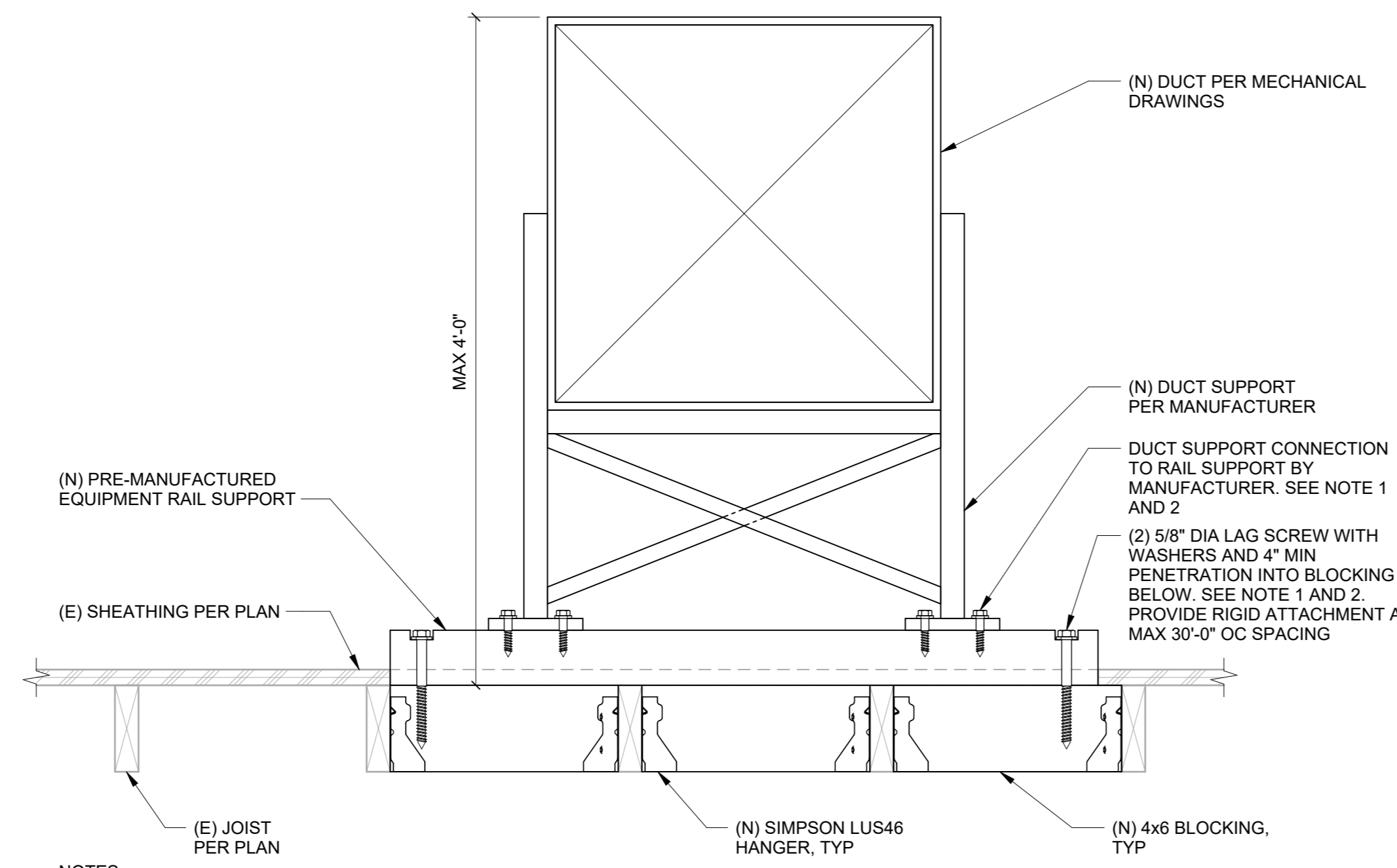
5 HOLD-DOWN AND COMPRESSION STUD SCHEDULE
S3.03 NO SCALE

BUILT-UP COLUMN SCHEDULE	
TYPE MARK	STUD SIZE AND QUANTITY
1	(2) 2x4



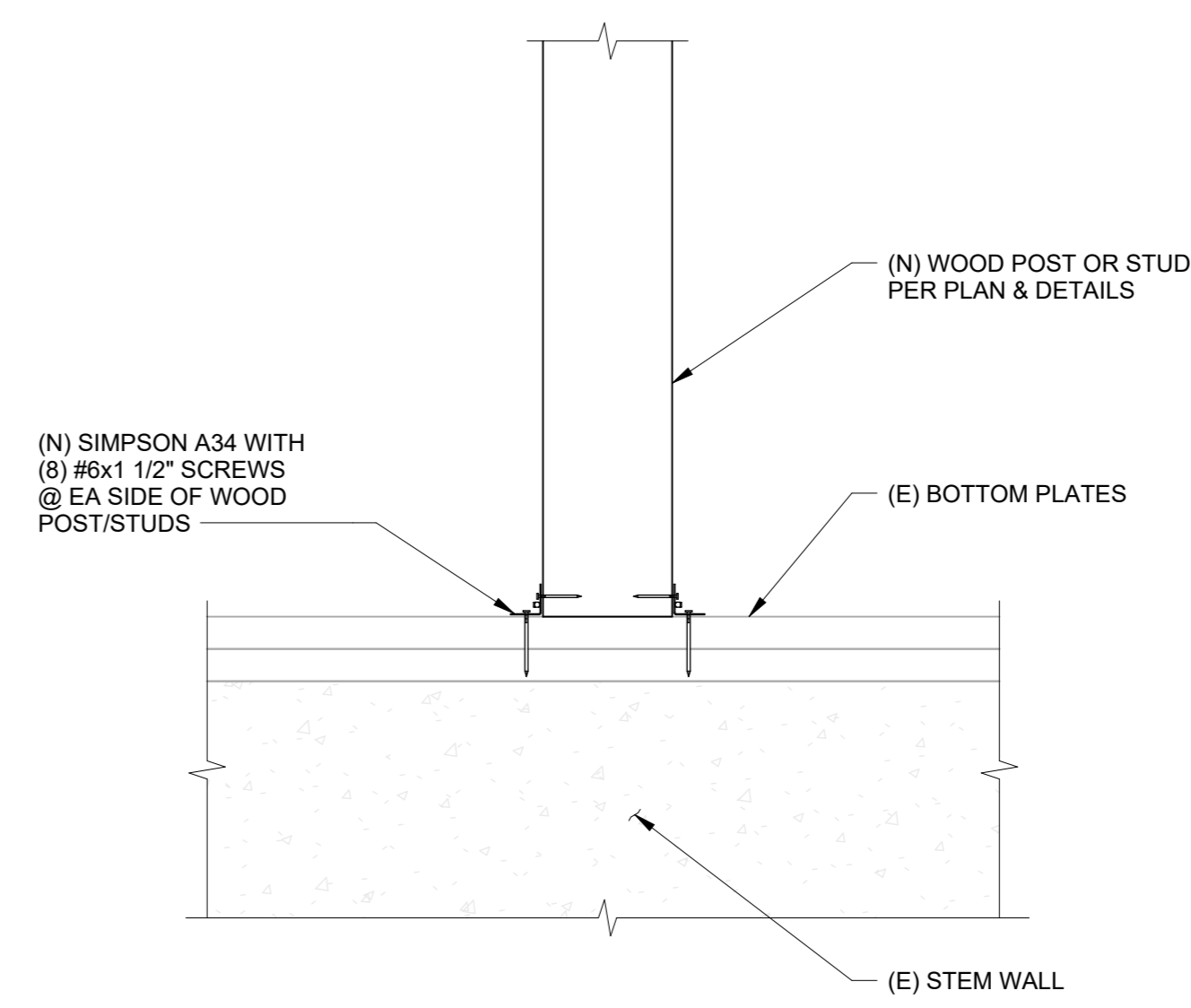
NOTE:
1. FASTENERS FOR:
2 PLY = SDW22300
3 PLY = SDW22438
4 PLY = SDW22800
5 PLY = 1/2"Ø BOLT

6 BUILT-UP COLUMN SCHEDULE
S3.03 NO SCALE

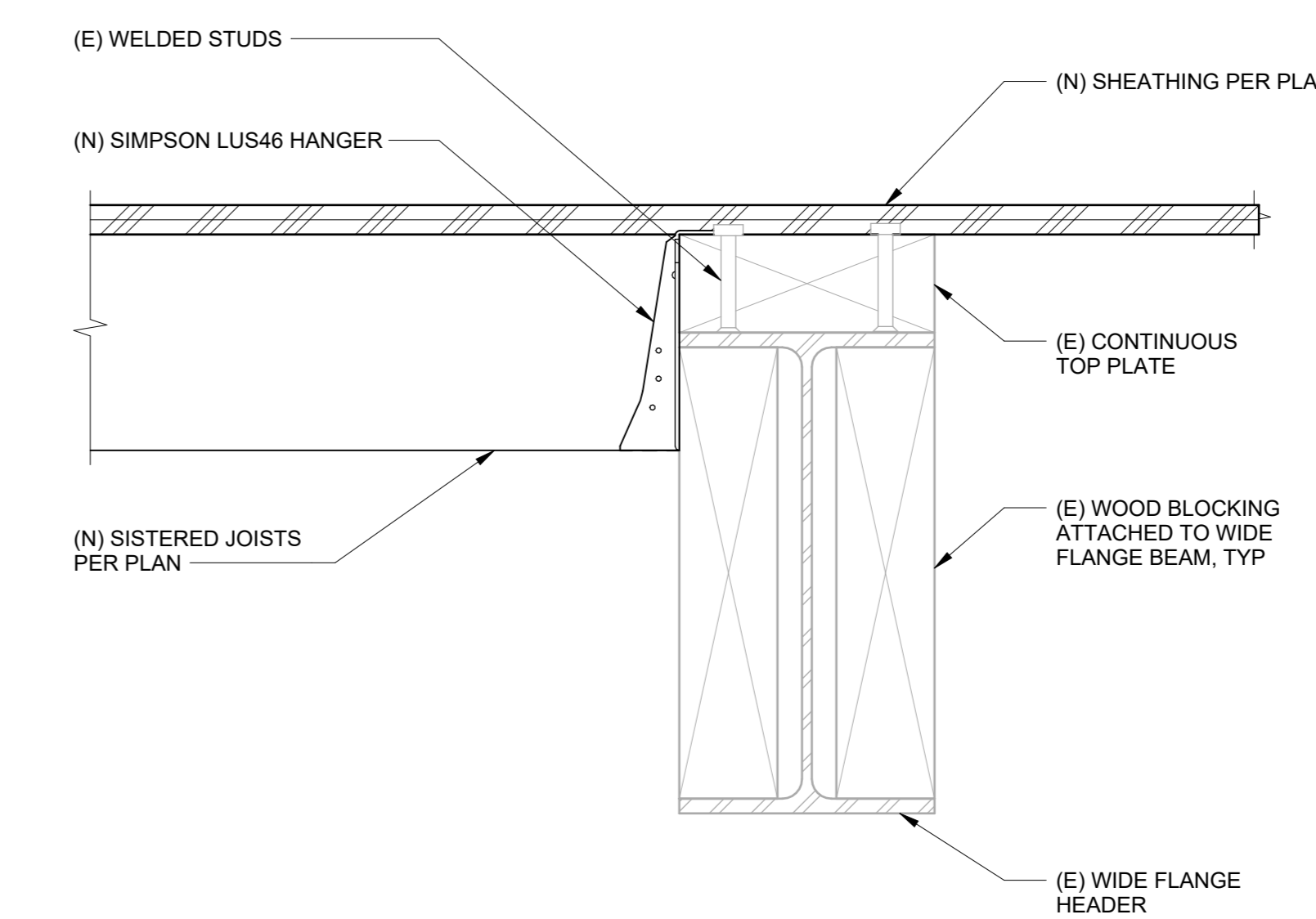


7 RIGID DUCT SUPPORT AT ROOF
S3.03 1 1/2" = 1'-0"

NOTES:
1. ALL STEEL ELEMENTS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED.
2. PROTECT STEEL WASHERS WITH NEOPRENE OR NYLON BETWEEN WASHER AND ALUMINUM ELEMENT.

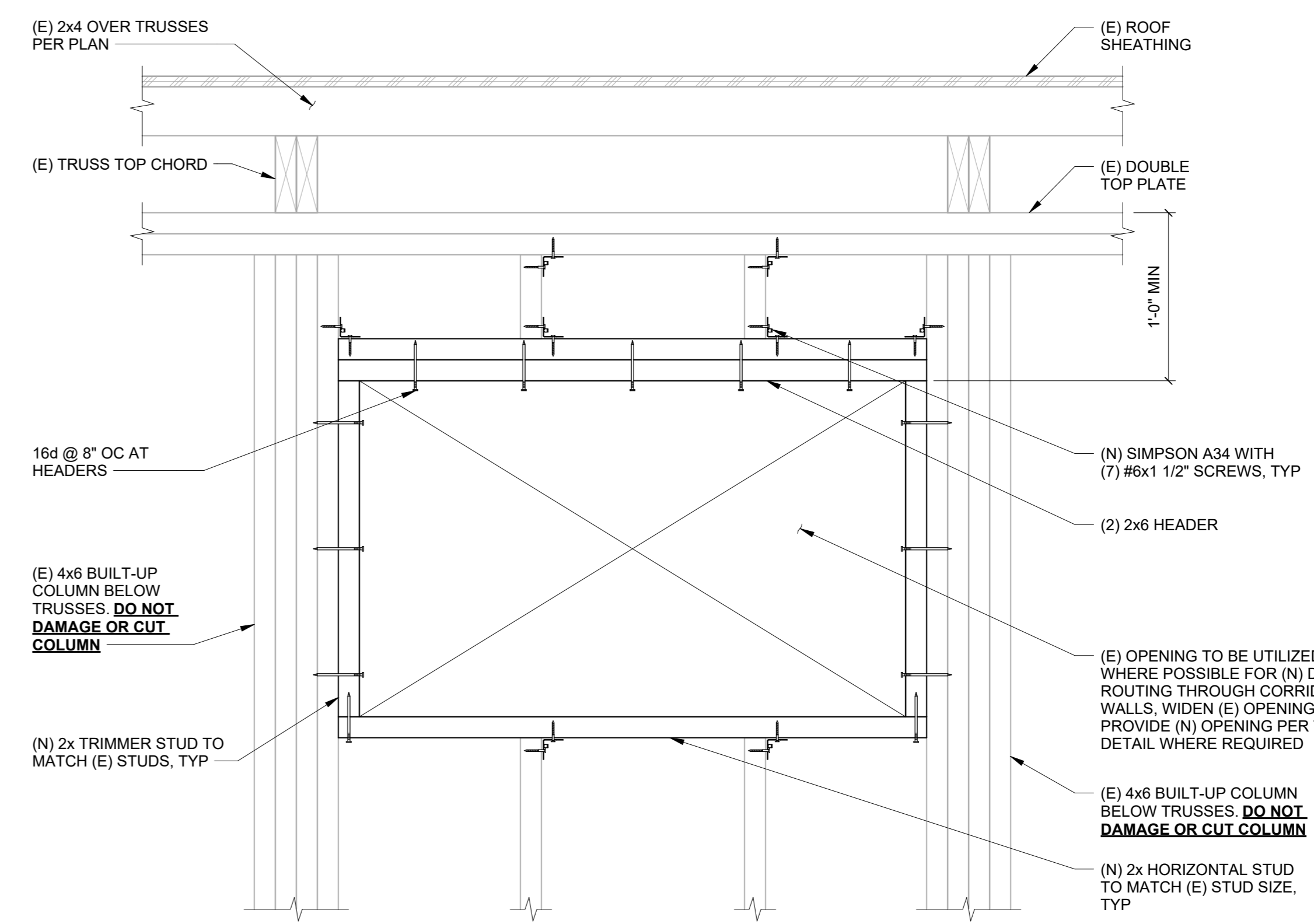


1 WOOD POST CONNECTION
S3.03 1 1/2" = 1'-0"



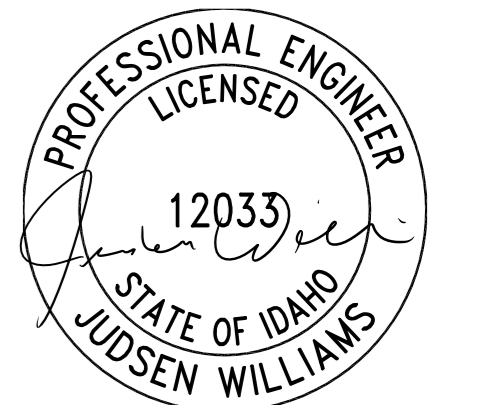
NOTE:
1. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AND NOTIFY SEOR IF THERE ARE ANY DISCREPANCIES WITH THIS DETAIL.

2 SISTERED JOISTS TO WIDE FLANGE CONNECTION
S3.03 3" = 1'-0"



3 HVAC DUCT OPENINGS IN HALLWAY BEARING WALL - ELEVATION VIEW
S3.03 1 1/2" = 1'-0"

NOTES:
1. CONTRACTOR TO FIELD VERIFY IF THE EXISTING CONDITIONS MATCH THE EXISTING CONDITIONS IN THIS DETAIL ABOVE. NOTIFY SEOR IF THERE ARE ANY DISCREPANCIES.
2. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO ALLOW FOR HEADER INSTALLATION.



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
RETROFIT DETAILS

BID SET

Revisions: △

Project No: 1021240011
Drawn By: DC79K
Checked By: JW
Date: 02/27/2025

Sheet No:
S3.03

GENERAL LEGEND (Not all symbols listed below are used on these drawings)			
ABBR.	SYMBOL	DESCRIPTION	
		SECTION DESIGNATION	
		SECTION CUT ON THIS SHEET	
		VIEW REFERENCE DESIGNATION	
		VIEW REFERENCE ON THIS SHEET	
		EQUIPMENT UNIT IDENTIFICATION	
		EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)	
		DIFFUSER IDENTIFICATION	
		DIFFUSER NECK DIAMETER	
		DIFFUSER LENGTH	
		DIFFUSER CFM	
		LINEAR DIFFUSER IDENTIFICATION	
		LINEAR DIFFUSER NECK DIAMETER	
		LINEAR DIFFUSER LENGTH	
		LINEAR DIFFUSER CFM	
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH	
		EQUIPMENT UNIT IDENTIFICATION	
		EQUIPMENT UNIT NUMBER	
		RADIATOR ENCLOSURE LENGTH (OR W-W/H-WALL-TO-WALL)	
		KEY NOTE REFERENCE	
		KITCHEN/MEDICAL EQUIPMENT REFERENCE	
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	
		POINT OF CONNECTION, NEW TO EXISTING	
		POINT OF DISCONNECTION, DEMO	
		DIRECTION OF FLOW IN PIPE	
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED	
(E)		EXISTING	
(N)		NEW	
(R)		RELOCATED	
(F)		FUTURE	
DA		DIAMETER	
WAD		WALL ACCESS DOOR	
NIC		NOT IN CONTRACT	
GF		ABOVE FINISHED FLOOR	
GC		GENERAL CONTRACTOR	
MC		MECHANICAL CONTRACTOR	
EC		ELECTRICAL CONTRACTOR	
UNO		UNLESS NOTED OTHERWISE	
C		COMMON	
NC		NORMALLY CLOSED	
NO		NORMALLY OPEN	

DOUBLE/SINGLE LINE DUCT LEGEND (Not all symbols listed below are used on these drawings)							
SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE

C

D

E

HVAC LEGEND (Not all symbols listed below are used on these drawings)			
ABBR.	SYMBOL	DESCRIPTION	
HWS		HEATING WATER SUPPLY PIPING	
HWR		HEATING WATER RETURN PIPING	
HTWS		HIGH TEMPERATURE HEATING WATER SUPPLY PIPING	
HTWR		HIGH TEMPERATURE HEATING WATER RETURN PIPING	
CHWS		CHILLED WATER SUPPLY PIPING	
CHWR		CHILLED WATER RETURN PIPING	
D		COOLING COIL DRAIN PAN PIPING	
CWS		CONDENSER WATER SUPPLY PIPING	
CWR		CONDENSER WATER RETURN PIPING	
GHW		GLYCOL HEATING WATER SUPPLY PIPING	
GHR		GLYCOL HEATING WATER RETURN PIPING	
PCWS		PROCESS CHILLED WATER SUPPLY PIPING	
PCWR		PROCESS CHILLED WATER RETURN PIPING	
LPS		LOW PRESSURE STEAM SUPPLY PIPING (0 - 15#)	
LPC		LOW PRESSURE CONDENSATE RETURN PIPING	
MPS		MEDIUM PRESSURE STEAM SUPPLY PIPING (16# - 60#)	
MPC		MEDIUM PRESSURE CONDENSATE RETURN PIPING	
HPS		HIGH PRESSURE STEAM SUPPLY PIPING (61# - 125#)	
HPC		HIGH PRESSURE CONDENSATE RETURN PIPING	
PC		PUMPED CONDENSATE PIPING	
BB		BOILER BLOWDOWN PIPING	
BF		BOILER FEED WATER PIPING	
RL		REFRIGERANT LIQUID PIPING	
RS		REFRIGERANT SUCTION PIPING	
RHG		REFRIGERANT HOT GAS PIPING	
TT		THERMOSTATIC STEAM TRAP	
FAT		FLOAT AND THERMOSTATIC STEAM TRAP	
IBT		INVERTED BUCKET STEAM TRAP	
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE	
BV		VENTURI METER	
AVF		AUTO FLOW VALVE	
RSV		REFRIGERANT SERVICE VALVE	
DPS		DIFFERENTIAL PRESSURE SWITCH	
FS		FLOW SWITCH	
EJ		EXPANSION JOINT	
BJ		BALL JOINT EXPANSION COMPENSATOR	
SA		SUPPLY AIR	
RA		RETURN AIR	
EA		EXHAUST AIR	
OA		OUTSIDE AIR	
SD		SUPPLY AIR DEVICE	
RG		RETURN AIR DEVICE	
RD		RETURN AIR DEVICE WITH SOUND BOOT	
EG		EXHAUST AIR DEVICE	

BAS CONTROL LEGEND & NOTES (Not all symbols listed below are used on these drawings)		
ABBR.	SYMBOL	DESCRIPTION
D.I.		DIGITAL INPUT
D.O.		DIGITAL OUTPUT
A.I.		ANALOG INPUT
A.O.		ANALOG OUTPUT

GENERAL NOTES:

- THE TEMPERATURE CONTROL MATRIX, CONTROL DIAGRAMS, AND THE SEQUENCE OF OPERATIONS ARE ALL BINDING AND COMPLEMENTARY. IF THERE IS A DISCREPANCY BETWEEN THEM, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE DRAWINGS.
- IN ADDITION TO THE DDC POINTS LISTED, THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DRAWINGS, ALL SPECIFICATIONS, AND ALL SEQUENCES OF OPERATION. THE DOCUMENTS ARE ALL INCLUSIVE AND COMPLEMENTARY TO EACH OTHER. THE PROJECT SHALL INCLUDE ANY AND ALL NECESSARY DDC POINTS TO SUPPORT THE REQUIREMENTS OF ALL THE DOCUMENTS.
- ALWAYS REFER TO DRAWINGS FOR QUANTITY.
- PROVIDE OPEN PROTOCOL COMMUNICATION WITH FACTORY SUPPLIED CONTROLLER.
- BAS CONTRACTOR SHALL COORDINATE STATUS LEVEL FOR EACH ALARM POINT WITH THE OWNER TO DETERMINE WHICH ONES REQUIRE IMMEDIATE ATTENTION.
- IF THERE IS A DISCREPANCY BETWEEN ANY DOCUMENTATION, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND DRAWINGS.

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: TFSD Lincoln Elementary
 Location: Twin Falls, Idaho
 Climate Zone: 5b
 Project Type: New Construction

Construction Site: 238 BUHL ST N, TWIN FALLS, IDAHO 83301
 Owner/Agent: TWIN FALLS SCHOOL DISTRICT
 Designer/Contractor: LILLY JOHNSON, CATOR RUMA AND ASSOCIATES

Quantity System Type & Description

- HVAC System (Single Zone w/ Perimeter System):
 Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h
 Proposed Efficiency = 82.00% Et, Required Efficiency = 80.00 % Et or 80% AFUE
 Cooling: 1 each - Packaged Terminal Unit, Capacity = 66 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 11.95 EER, Required Efficiency = 9.50 EER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: FAN SYSTEM 4 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
- Fans:
 FAN 7 Supply, Constant Volume, 2400 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
 FAN 8 Relief, Single-Zone VAV, 2400 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
- HVAC System (Single Zone w/ Perimeter System):
 Heating: 1 each - Duct Furnace, Gas, Capacity = 250 kBtu/h
 Proposed Efficiency = 82.00% Et, Required Efficiency = 80.00 % Et or 80% AFUE
 Cooling: 1 each - Packaged Terminal Unit, Capacity = 107 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 10.32 EER, Required Efficiency = 9.50 EER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: FAN SYSTEM 4 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
- Fans:
 FAN 9 Supply, Constant Volume, 4000 CFM, 5.0 motor nameplate hp, 1.9 design brake hp (5.0 max. BHP), 1.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
 FAN 10 Relief, Single-Zone VAV, 4000 CFM, 2.0 motor nameplate hp, 2.0 design brake hp (2.0 max. BHP), 1.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Lilly Johnson
 Name - Title: _____ Signature: _____ Date: 2/27/25

Additional Efficiency Package(s)
 Credits: 1.0 Required 0.0 Proposed

Mechanical Systems Lists

Quantity System Type & Description

- HVAC System (Single Zone w/ Perimeter System):
 Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00 % Et or 80% AFUE
 Cooling: 1 each - Packaged Terminal Unit, Capacity = 44 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 11.36 EER, Required Efficiency = 9.50 EER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
- Fans:
 FAN 1 Supply, Constant Volume, 1380 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
 FAN 2 Relief, Single-Zone VAV, 1380 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
- HVAC System (Single Zone w/ Perimeter System):
 Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00 % Et or 80% AFUE
 Cooling: 1 each - Packaged Terminal Unit, Capacity = 44 kBtu/h, Air-Cooled Condenser, Unknown Economizer
 Proposed Efficiency = 10.63 EER, Required Efficiency = 9.50 EER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: FAN SYSTEM 2 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
- Fans:
 FAN 3 Supply, Constant Volume, 1600 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
 FAN 4 Relief, Single-Zone VAV, 1600 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
- HVAC System (Single Zone w/ Perimeter System):
 Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00 % Et or 80% AFUE
 Cooling: 1 each - Packaged Terminal Unit, Capacity = 54 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 11.36 EER, Required Efficiency = 9.50 EER
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
 Fan System: FAN SYSTEM 3 - Compliance (Motor nameplate HP and fan efficiency method) - Passes
- Fans:
 FAN 5 Supply, Constant Volume, 2000 CFM, 2.4 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP
 FAN 6 Relief, Single-Zone VAV, 2000 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Fan array <= 5 total HP

Project Title: TFSD Lincoln Elementary
 Data filename: _____ Report date: 02/13/25
 Page 1 of 11

Project Title: TFSD Lincoln Elementary
 Data filename: _____ Report date: 02/13/25
 Page 2 of 11

UNLESS NOTED OTHERWISE ALL SCHEDULED DATA IS LISTED AT ELEVATION 3700 FT

HVAC PLAN NOTES:

- SUPPLY AIR DUCTWORK SHALL EXTEND FROM EACH ROOFTOP UNIT TO THE SPACE SERVED, WHERE CEILING PLENUM SPACE IS LIMITED OR BLOCKED BY STRUCTURE, EXTERIOR ROOF-MOUNTED DUCTWORK MAY BE REQUIRED.
- WHERE ROOFTOP UNITS SERVE A SINGLE ZONE, THE RETURN AIR DUCTWORK SHALL BE ROUTED FROM THE ROOFTOP UNIT TO THE SPACE SERVED. IF THE UNIT SERVES MULTIPLE ZONES, THE DUCTWORK SHALL EXTEND TO A COMMON LOCATION AMONGST THE SPACES SERVED.
 - UNLESS EXISTING CONSTRUCTION PROHIBITS PLENUM RETURN (I.E. CONSISTS OF COMBUSTIBLE MATERIALS), THE CEILING PLENUMS SHALL BE UTILIZED FOR RETURN WITH TRANSFER AIR DUCTS FROM THE OCCUPIED SPACE OR FROM SPACE TO SPACE.
 - IF THE CEILING PLENUM IS EXPOSED TO COMBUSTIBLE MATERIALS THEN THE RETURN SHALL BE FULLY DUCTED TO THE OCCUPIED SPACE AND CONTRACTOR TO NOTIFY ENGINEER.
- UNLESS OTHERWISE NOTED, ALL SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY WRAPPED TO MEET THE MINIMUM IECC INSULATION VALUES BASED UPON LOCATION (EXTERIOR, ATTIC, AND/OR INTERIOR) OF DUCTWORK. SUPPLY AIR DUCTWORK EXPOSED TO THE OCCUPIED SPACE DOES NOT REQUIRE INSULATION UNLESS INDICATED OTHERWISE. INTERIOR RETURN AIR DUCTWORK SHALL NOT BE WRAPPED BUT EXTERIOR AND ATTIC RETURN DUCTWORK SHALL MEET MINIMUM INSULATION VALUES PER IECC. INTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE LINED WHERE INDICATED. EXHAUST DUCTWORK DOES NOT REQUIRE INSULATION.
- ALL EXPOSED DUCTWORK SHALL BE SPIRAL OR FLAT OVAL, WITH LABELS REMOVED, FREE OF IMPERFECTIONS, AND PREPARED FOR PAINTING.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS.
- DUCT SIZES INDICATED ARE SHEET METAL SIZES, WHERE INTERNAL DUCT LINING IS PROVIDED, SHEET METAL SIZE NOT BE INCREASED IN SIZE.
- ALL SUPPLY AIR DIFFUSERS ARE 4-WAY AIR PATTERN UNLESS SHOWN OTHERWISE.
- DUCT SIZE OF BRANCH DUCT TO AIR DEVICE SHALL BE THE SAME SIZE AS NECK SIZE OF AIR DEVICE UNLESS NOTED OTHERWISE.

GENERAL NOTES:

- WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNERS EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS, OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- COORDINATE WORK WITH ALL TRADES.
- CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
- COORDINATE ALL DUCTWORK AND PIPING WITH EQUIPMENT, STRUCTURE, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEACTIVATION OF ROOF-MOUNTED EQUIPMENT AND ASSOCIATED INDOOR EQUIPMENT. ONLY ONE UNIT SHALL BE TAKEN OUT OF SERVICE AT ANY TIME, WITH REMAINDER OF UNITS LEFT OPERATIONAL.
- CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

DEMOLITION GENERAL NOTES:

- THE SCOPE OF WORK SHALL INCLUDE REMOVAL OF THE EXISTING STEAM BOILERS, CONDENSATE PUMPS, WATER TREATMENT, STEAM PIPING DISTRIBUTION, AND CONDENSATE RETURN. THE STEAM AND CONDENSATE PIPING SHALL BE DEMOLISHED AND REMOVED TO THE GREATEST EXTENT POSSIBLE. THE EXISTING PIPING IS GENERALLY ROUTED THROUGHOUT THE BUILDING(S) VIA AN UNDERGROUND TUNNEL SYSTEM, WHERE PIPING PASSES BETWEEN BUILDINGS AND IS DIRECT BURIED, THE PIPING MAY BE ABANDONED IN PLACE.
- THE EXISTING UNIT VENTILATORS SHALL BE DEMOLISHED ENTIRELY AND ALL LOUVERS OR CONNECTIONS TO OUTDOORS SHALL BE INSULATED AND FILLED (RE-ARCH).
- EXISTING DX SPLIT SYSTEMS SHALL BE DEMOLISHED INCLUDING ALL PIPING, HANGERS, SUPPORTS, EQUIPMENT PADS AND ENCLOSURES, WHERE PIPING PASSES THROUGH EXTERIOR WALLS, THE WALL SHALL BE REPAIRED.
- EXISTING ITEMS TO REMAIN ARE DENOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMOVAL WORK REQUIRED PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENT.
- CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONCEPTUAL DESIGN FOR BUDGETING.
- PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- WHERE EXISTING PIPING, T.C. TUBING/WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
- WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.
- ALL EQUIPMENT SERVED BY STEAM IS TO BE DEMOLISHED. NOTIFY ENGINEER IF ANY STEAM EQUIPMENT IS NOT SHOWN ON DEMO PLANS.

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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT
 LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet: MECHANICAL LEGENDS & NOTES

Revisions:

Project No: 23029
 Drawn By: AK
 Checked By: MG
 Date: 02/27/2025

Sheet No: M0.01

AIR DEVICE SCHEDULE

Table with columns: DESIG., FUNCTION, STYLE, MFR., MODEL, FRAME STYLE, MODULE SIZE, MATERIAL, FINISH, REMARKS. Includes remarks: GENERAL - APPLIES TO ALL AIR DEVICES...

CABINET UNIT HEATER SCHEDULE (ELECTRIC)

Table with columns: DESIG., NAME, NO., INSTALLATION STYLE, AIR OPENINGS (INLET, OUTLET), MFR., MODEL, ELECTRIC HEAT (KW, MBH, STAGES), FAN MOTOR (CFM, NO., EAT, LAT), AIR TEMP (EAT, LAT), ELECTRICAL (VOLTAGE, PHASE), SIZE (INCHES) (L, D, H), OPER WEIGHT (LBS), REMARKS.

ELECTRIC BASEBOARD SCHEDULE

Table with columns: DESIG., NAME, NO., MFR., MODEL, HEATING CAPACITY (BTUH, WATTS, WATTS / FT), MATERIAL (FIN MATERIAL), ENCLOSURE (HEIGHT, DEPTH), ELECTRICAL (VOLTAGE, PHASE), CONTROL, REMARKS.

UNIT HEATER SCHEDULE (ELECTRIC)

Table with columns: DESIG., NAME, NO., MFR., MODEL, HEATING CAPACITY (KW, MBH, STAGES), FAN MOTOR (AIRFLOW, NO., EAT, LAT), AIR TEMP (EAT, LAT), SIZE (INCHES) (L, D, H), OPER WEIGHT (LBS), ELECTRICAL (VOLTAGE, PHASE), MAX MTG. HEIGHT TO BOTTOM (FT), CONTROL, REMARKS.

EQUIPMENT SOUND DATA SCHEDULE

Table with columns: DESIG., NAME, NO., INLET NC (Hz), RADIATED NC (Hz), DISCHARGE NC (Hz), REMARKS. Includes remarks: GENERAL - APPLIES TO ALL AIR DEVICES...

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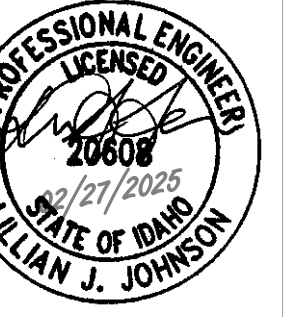
Project: TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL, 238 BUHL ST N, TWIN FALLS, ID 83301

Sheet: MECHANICAL SCHEDULES

BID SET

Revisions: [triangle icon]



Project No: 23029, Drawn By: AK, Checked By: MG, Date: 02/27/2025

Sheet No: M0.02

FAN SCHEDULE

- GENERAL REMARKS:**
- A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
 - REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
 - B. PROVIDE SHAFT GROUNDING RINGS FOR EACH BEARING ON MOTORS POWERED THROUGH VARIABLE FREQUENCY DRIVES.
 - C. FEI = FAN ENERGY INDEX IN ACCORDANCE WITH AMCA 208.
 - D. FAN E.S.P. INCLUDES DAMPER PRESSURE DROP. INCLUDE DAMPER PRESSURE DROP IN SUBMITTAL.
 - E. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
 - F. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.
- SPECIFIC REMARKS:**
- 1.

DESIG.	MOTOR													BACKDRAFT DAMPER (BDD)																				
	NAME NO.	MFR	MODEL	FAN TYPE	SERVICE	FAN CLASS	WHEEL DIA (INCHES)	CFM AT ELEV.	E.S.P. (IN. W.C.)	APPROX. RPM	TIP SPEED (FPM)	OUTLET VELOCITY (FPS)	REG'D BHP	HP	VOLTAGE	PHASE	ECM (YES/NO)	VFD (YES/NO)	RELAY (YES/NO)	STARTER (YES/NO)	VFD BYPASS (YES/NO)	DRIVE TYPE	VIBRATION ISOLATOR TYPE	TYPE & LOCATION	AIR PRESS DROP (IN WC)	THROAT HEIGHT (INCHES)	THROAT WIDTH (INCHES)	ARRANGE & MOUNTING	SIZE (INCHES)	OPER. WEIGHT (LBS.)	CONTROL	REMARKS		
EF 1	1	GREENHECK	G-120-VG	CENTRIFUGAL DOWNBLAST	RESTROOMS	I	13.0	700	0.50	1057	3597	753	0.09	0.25	115	1	No	No	No	No	No	DIRECT	SEE SPEC	GRAVITY, ROOF PENETRATION	0.05	12	12	CURB	24	24	36	60	TIME CLOCK	
EF 2	2	GREENHECK	G-080-VG	CENTRIFUGAL DOWNBLAST	RESTROOMS	I	10.9	210	0.50	1597	4557	525	0.05	0.1	115	1	No	No	No	No	No	DIRECT	SEE SPEC	GRAVITY, ROOF PENETRATION	0.05	10	10	CURB	22	22	27	40	TIME CLOCK	
EF 3	3	GREENHECK	G-060-VG	CENTRIFUGAL DOWNBLAST	RESTROOMS	I	8.1	70	0.30	1562	3312	368	0.01	0.07	115	1	No	No	No	No	No	DIRECT	SEE SPEC	GRAVITY, ROOF PENETRATION	0.05	12	12	CURB	19	19	24	35	OCC SENSOR, BAS	

ROOF TOP UNIT SCHEDULE (PACKAGED)

- COMMON NOTES (APPLIES TO ALL UNITS):**
- A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES.
 - REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
 - B. UNIT HEIGHT DOES NOT INCLUDE HEIGHT OF CURB.
 - C. PROVIDE BASE RAIL OR CURBS HEIGHT TO ACCOMMODATE CONDENSATE DRAIN P-TRAP.
 - D. PROVIDE SHAFT GROUNDING RINGS FOR EACH BEARING ON MOTORS POWERED THROUGH VARIABLE FREQUENCY DRIVES.
 - E. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
 - F. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.
 - G. COOLING COIL AND HEAT EXCHANGER PRESSURE DROP INCLUDED IN SIZING OF FAN.
 - H. POWER EXHAUST REQUIRES SEPARATE POINT OF CONNECTION.
 - I. PROVIDE WITH CONDENSATE OVERFLOW SWITCH.
- UNIT SPECIFIC REMARKS:**
- 1.

DESIG.	NAME NO.	AREA SERVED	MFR	MODEL NO.	SUPPLY FAN SECTION													POWER EXHAUST FAN SECTION													SUPPLY AIR COOLING COIL SECTION				DESIG.					
					OPERATION				WHEEL		MOTORS			OPERATION				WHEEL		MOTORS			AT ELEV.		EAT		LAT													
					OUTSIDE AIR CFM	AT ELEV. CFM	ESP (IN WC)	NO. OF FANS	DIA. (IN)	TYPE (AF/BI/FC)	DRIVE (DIRECT)	RPM APPROX.	REG'D BHP	EACH FAN MAX HP	SUM OF ALL FANS	NO. OF VFD'S	VFD (YES/NO)	VIBRATION ISOLATOR TYPE	AT ELEV. CFM	ESP (IN WC)	NO. OF FANS	DIA. (IN)	TYPE (AF/BI/FC)	DRIVE (DIRECT)	EACH FAN MAX HP	SUM OF ALL FANS	VOLTAGE	PHASE	NO. OF VFD'S	VFD (YES/NO)	VIBRATION ISOLATOR TYPE	NET FACE AREA (SF)	CFM	MBH SENS		MBH TOTAL	F DB	F WB	F DB	F WB
RTU 1	1	CLASSROOMS	CARRIER	48GEM05	480	1,800	0.60	1	19	FC	DIRECT	1872	0.6	1.96	1.96	0	No	SEE SPEC	1,800	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 1
RTU 2	2	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 2
RTU 3	3	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 3
RTU 4	4	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 4
RTU 5	5	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 5
RTU 6	6	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 6
RTU 7	7	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 7
RTU 8	8	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 8
RTU 9	9	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 9
RTU 10	10	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 10
RTU 11	11	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 11
RTU 12	12	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 12
RTU 13	13	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 13
RTU 14	14	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 14
RTU 15	15	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 15
RTU 16	16	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 16
RTU 17	17	CLASSROOMS	CARRIER	48GEM05	420	1,380	0.60	1	19	FC	DIRECT	1729	0.5	1.96	1.96	0	No	SEE SPEC	1,380	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	6	1,380	38	44	82	63	53	51	RTU 17
RTU 18	18	CORRIDOR	CARRIER	48GEM05	480	1,600	0.60	1	19	FC	DIRECT	1872	0.6	1.96	1.96	0	No	SEE SPEC	1,600	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	53	53	RTU 18
RTU 19	19	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 19
RTU 20	20	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 20
RTU 21	21	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 21
RTU 22	22	CLASSROOMS	CARRIER	48GEM06	600	2,000	1.00	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 22
RTU 23	23	CLASSROOMS	CARRIER	48GEM06	600	2,000	1.00	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 23
RTU 24	24	CLASSROOMS	CARRIER	48GEM06	600	2,000	1.00	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 24
RTU 25	25	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 25
RTU 26	26	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 26
RTU 27	27	CLASSROOMS	CARRIER	48GEM06	600	2,000	0.60	1	19	FC	DIRECT	1998	0.7	2.43	2.43	0	No	SEE SPEC	2,000	0.50	1	10	FC	DIRECT	0.5	0.5	208	3	1	No	SEE SPEC	7	2,000	48	54	82	63	56	53	RTU 27
RTU 28	28	CLASSROOMS	CARRIER																																					

A

RTU-1 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L100	VESTIBULE	PUBLIC SPACES	CORRIDORS	193	150	0.0	0.06	0	0	12	14	0.07	0	12			
L101	ADMIN	OFFICES	RECEPTION	491	600	5.0	0.06	30	15	103	129	0.215	74	29			
L102	RR	PUBLIC SPACES	TOILET ROOMS	29	50	0.0	0.06	0	0	0	0	0.000	0	0			
L103	OFFICE	OFFICES	OFFICE SPACES	102	150	5.0	0.06	5	1	9	11	0.072	3	6			
L104	OFFICE	OFFICES	OFFICE SPACES	125	100	5.0	0.06	5	1	11	13	0.089	3	5			
L105	BACK	OFFICES	OFFICE SPACES	71	150	5.0	0.06	5	1	9	12	0.077	5	4			
L106	OFFICE	OFFICES	OFFICE SPACES	73	150	5.0	0.06	5	1	9	12	0.078	5	4			
L107	BREAK RM	OFFICES	OFFICE SPACES	155	100	5.0	0.06	5	1	13	16	0.165	4	9			
L109	WORK/COPY	WORKROOMS	COPY PRINTING ROOMS	156	100	5.0	0.06	4	1	12	16	0.156	3	9			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,600				Uncorrected Outside Air Intake, CFM (Vou) = 178		<<<< CA Sum		236		96		82	
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.215				System Ventilation Efficiency (Ev) = 0.887		Corrected Outside Air Intake, CFM (Voc) = 199		Corrected Outside Air as % of Supply Air = 12.4%					

B

RTU 2-13 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L130-L137, L143-L142	CLASSROOM	EDUCATION	CLASSROOMS (AGES 9-8)	912	1,300	10.0	0.12	25	23	337	422	0.366	228	109			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,350				Uncorrected Outside Air Intake, CFM (Vou) = 337		<<<< CA Sum		228		109			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.306				System Ventilation Efficiency (Ev) = 0.939		Corrected Outside Air Intake, CFM (Voc) = 359		Corrected Outside Air as % of Supply Air = 26.0%					

C

RTU 14 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L148	LIBRARY	PUBLIC SPACES	LIBRARIES	1,417	1,300	5.0	0.12	10	14	241	301	0.218	71	170			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,350				Uncorrected Outside Air Intake, CFM (Vou) = 341		<<<< CA Sum		241		71			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.218				System Ventilation Efficiency (Ev) = 0.956		Corrected Outside Air Intake, CFM (Voc) = 252		Corrected Outside Air as % of Supply Air = 18.3%					

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RTU 15 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L149	LEARNING RESOURCE CENTER	EDUCATION	CLASSROOMS (AGES 8-8)	803	1,300	10.0	0.12	25	20	297	371	0.269	201	96			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,300				Uncorrected Outside Air Intake, CFM (Vou) = 297		<<<< CA Sum		201		96			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.269				System Ventilation Efficiency (Ev) = 0.946		Corrected Outside Air Intake, CFM (Voc) = 314		Corrected Outside Air as % of Supply Air = 22.8%					

RTU 16,17 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L160	CLASSROOM	EDUCATION	CLASSROOMS (AGES 9-8)	842	1,300	10.0	0.12	25	21	312	389	0.282	211	101			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,350				Uncorrected Outside Air Intake, CFM (Vou) = 312		<<<< CA Sum		211		101			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.282				System Ventilation Efficiency (Ev) = 0.844		Corrected Outside Air Intake, CFM (Voc) = 330		Corrected Outside Air as % of Supply Air = 23.9%					

RTU-18 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L110	HALL	PUBLIC SPACES	CORRIDORS	523	150	0.0	0.06	0	0	31	39	0.262	0	31			
L139	BOYS	PUBLIC SPACES	TOILET ROOMS	323	200	0.0	0.00	0	0	0	0	0.000	0	0			
L140	GIRLS	PUBLIC SPACES	TOILET ROOMS	331	200	0.0	0.00	0	0	0	0	0.000	0	0			
L141	COAT	PUBLIC SPACES	CORRIDORS	820	345	0.0	0.06	0	0	49	62	0.178	0	49			
L142	CORRIDOR	PUBLIC SPACES	CORRIDORS	1,797	585	0.0	0.06	0	0	108	135	0.230	0	108			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,600				Uncorrected Outside Air Intake, CFM (Vou) = 188		<<<< CA Sum		188		0			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.262				System Ventilation Efficiency (Ev) = 0.858		Corrected Outside Air Intake, CFM (Voc) = 220		Corrected Outside Air as % of Supply Air = 13.8%					

RTU-19 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L150	OFFICE	OFFICES	OFFICE SPACES	128	80	5.0	0.06	5	1	11	14	0.170	3	8			
L151	OFFICE	OFFICES	OFFICE SPACES	255	150	5.0	0.06	5	1	22	27	0.181	6	15			
L152	OFFICE	OFFICES	OFFICE SPACES	76	80	5.0	0.06	5	1	10	12	0.139	5	5			
L153	CONFERENCE	OFFICES	CONFERENCE ROOMS	243	280	5.0	0.06	50	12	75	94	0.338	61	15			
L154	OFFICE	OFFICES	OFFICE SPACES	144	120	5.0	0.06	5	1	12	15	0.128	4	9			
L155	STORAGE	RETAIL STORES, SALES FLOORS AND SHOWROOMS	STORAGE ROOMS	45	20	0.0	0.12	0	0	5	7	0.338	0	5			
L156	OFFICE	OFFICES	OFFICE SPACES	203	150	5.0	0.06	5	1	17	22	0.144	5	12			
L157	TEST ROOM	OFFICES	OFFICE SPACES	151	200	5.0	0.06	5	1	13	16	0.080	4	9			
L158	OFFICE	OFFICES	OFFICE SPACES	111	150	5.0	0.06	5	1	9	12	0.079	3	7			
L159	STORAGE	RETAIL STORES, SALES FLOORS AND SHOWROOMS	STORAGE ROOMS	22	20	0.0	0.12	0	0	3	3	0.165	0	3			
L162	CORRIDOR	PUBLIC SPACES	CORRIDORS	717	770	0.0	0.06	0	0	43	54	0.070	0	43			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 2,000				Uncorrected Outside Air Intake, CFM (Vou) = 220		<<<< CA Sum		220		91			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.338				System Ventilation Efficiency (Ev) = 0.773		Corrected Outside Air Intake, CFM (Voc) = 285		Corrected Outside Air as % of Supply Air = 14.3%					

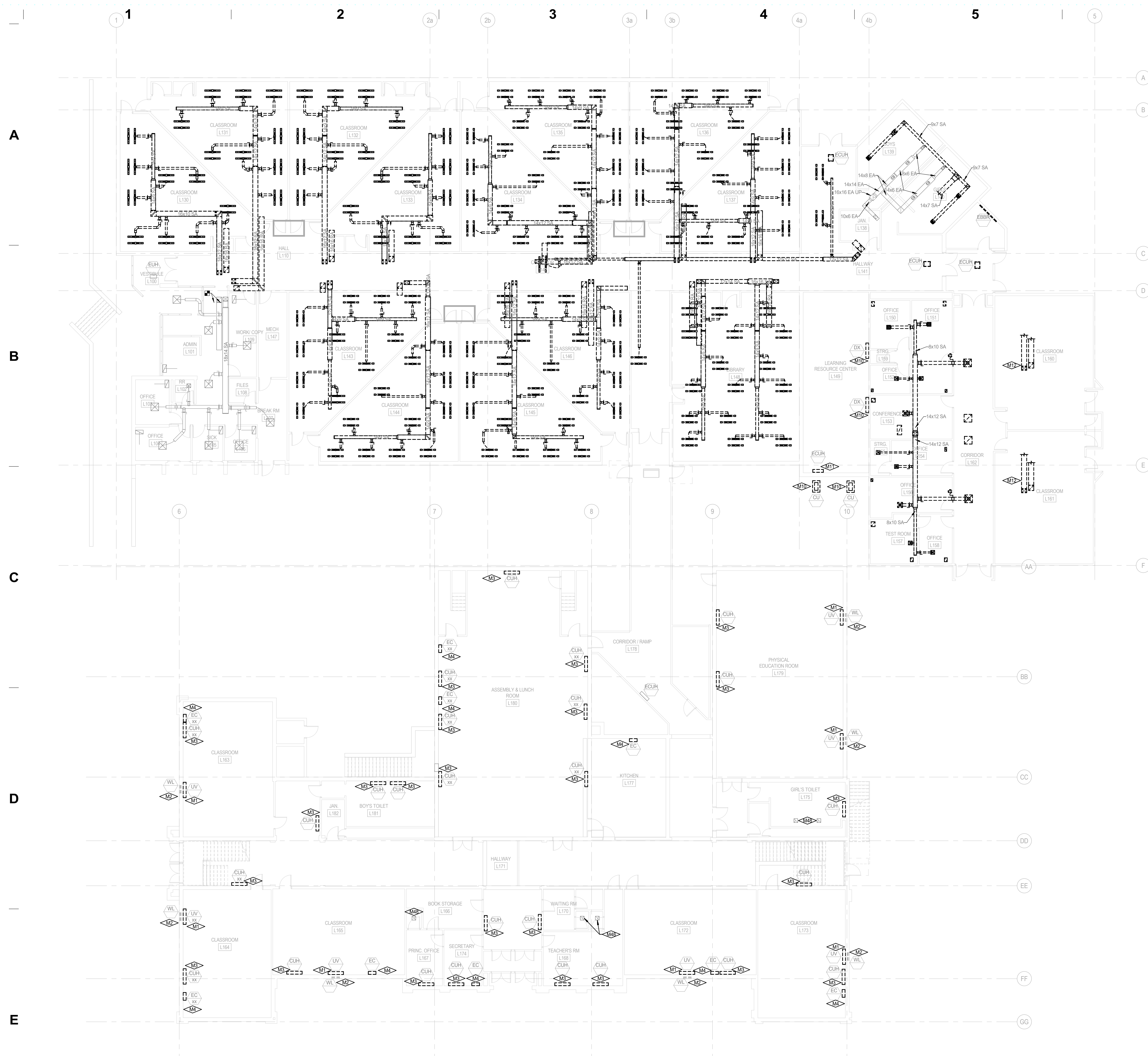
RTU-20 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L117	CLASSROOM	EDUCATION	CLASSROOMS (AGES 1-8)	842	1,800	10.0	0.12	25	24	349	436	0.242	236	113			
L118	HALLWAY	PUBLIC SPACES	CORRIDORS	713	200	0.0	0.06	0	0	43	53	0.267	0	43			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 2,000				Uncorrected Outside Air Intake, CFM (Vou) = 391		<<<< CA Sum		236		156			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.267				System Ventilation Efficiency (Ev) = 0.928		Corrected Outside Air Intake, CFM (Voc) = 422		Corrected Outside Air as % of Supply Air = 21.1%					

RTU-21 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L119	CLASSROOM	EDUCATION	CLASSROOMS (AGES 9-8)	782	1,800	10.0	0.12	25	19	282	352	0.196	191	91			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,800				Uncorrected Outside Air Intake, CFM (Vou) = 282		<<<< CA Sum		191		91			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.196				System Ventilation Efficiency (Ev) = 0.961		Corrected Outside Air Intake, CFM (Voc) = 293		Corrected Outside Air as % of Supply Air = 16.3%					

RTU-22 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L164	CLASSROOM	EDUCATION	CLASSROOMS (AGES 9-8)	782	1,800	10.0	0.12	25	19	282	352	0.196	191	91			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 1,800				Uncorrected Outside Air Intake, CFM (Vou) = 282		<<<< CA Sum		191		91			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.196				System Ventilation Efficiency (Ev) = 0.961		Corrected Outside Air Intake, CFM (Voc) = 293		Corrected Outside Air as % of Supply Air = 16.3%					

RTU-23 OUTSIDE AIR VENTILATION CALCULATIONS (OA)																	
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%		OUTSIDE AIR SUMMARY					
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM/PSF)	AREA OUTSIDE AIR RATE (CFM/PSF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM			
L163	CLASSROOM	EDUCATION	CLASSROOMS (AGES 9-8)	842	1,800	10.0	0.12	25	24	349	436	0.242	236	113			
L171	HALLWAY	PUBLIC SPACES	CORRIDORS	1,020	200	0.0	0.06	0	0	61	77	0.383	0	61			
Project: TFSD Lincoln Elementary HVAC Upgrade				Total Supply Air CFM = 2,000				Uncorrected Outside Air Intake, CFM (Vou) = 410		<<<< CA Sum		236		174			
Location: Twin Falls, Idaho				Critical Zone Outside Air Fraction (MAX Zg) = 0.383				System Ventilation Efficiency (Ev) = 0.822		Corrected Outside Air Intake, CFM (Voc) = 498		Corrected Outside Air as % of Supply Air = 24.9%					

RTU-24 OUTSIDE AIR VENTILATION CALCULATIONS (OA)													
AIR SYSTEM TAG		ROOM OCCUPANCY CLASSIFICATION		Code Basis: IMC 2018				ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8		SYSTEM OCCUPANT DIVERSITY (D) = 100%			



KEYNOTES	
M1	DEMOLISH EXISTING UNIT VENTILATOR. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.) DEMO ASSOCIATED TSTAT AND CONTROLS.
M2	DEMO LOUVER AND INSTALL SHEET METAL COVER WITH INSULATION. RE ARCHITECTURAL (TYP.)
M3	DEMOLISH CABINET UNIT HEATER. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.) DEMO ASSOCIATED TSTAT AND CONTROLS.
M4	DEMO SWAMP COOLER IN WINDOW. DEMO ASSOCIATED WATER PIPING AND CONTROLS. SEE ARCH. PLANS.
M10	DEMOLISH DX SPLIT SYSTEM, CONDENSING UNIT AND ALL ASSOCIATED PIPING.
M11	DEMOLISH ELECTRIC CABINET UNIT HEATER.
M12	DEMOLISH ALL DUCTWORK AND AIR DEVICES IN AREA. FULL EXTENT OF DUCTWORK NOT SHOWN DUE TO UNKNOWN CONDITIONS.
M48	EXISTING 12X12 GRILLE AND DUCTWORK TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN. VERIFY CONDITION FOR REUSE.

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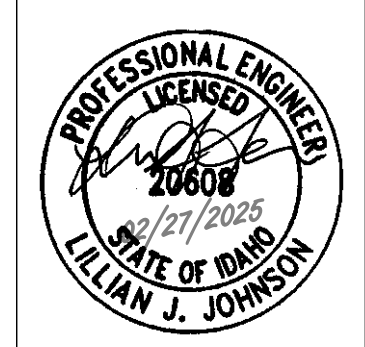
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Project:
 TFS DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

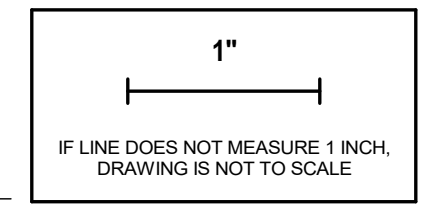
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 LEVEL 01 - HVAC DEMOLITION PLAN

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LEVEL 01 - COMPOSITE HVAC DEMOLITION PLAN
 SCALE: 1" = 10'-0"

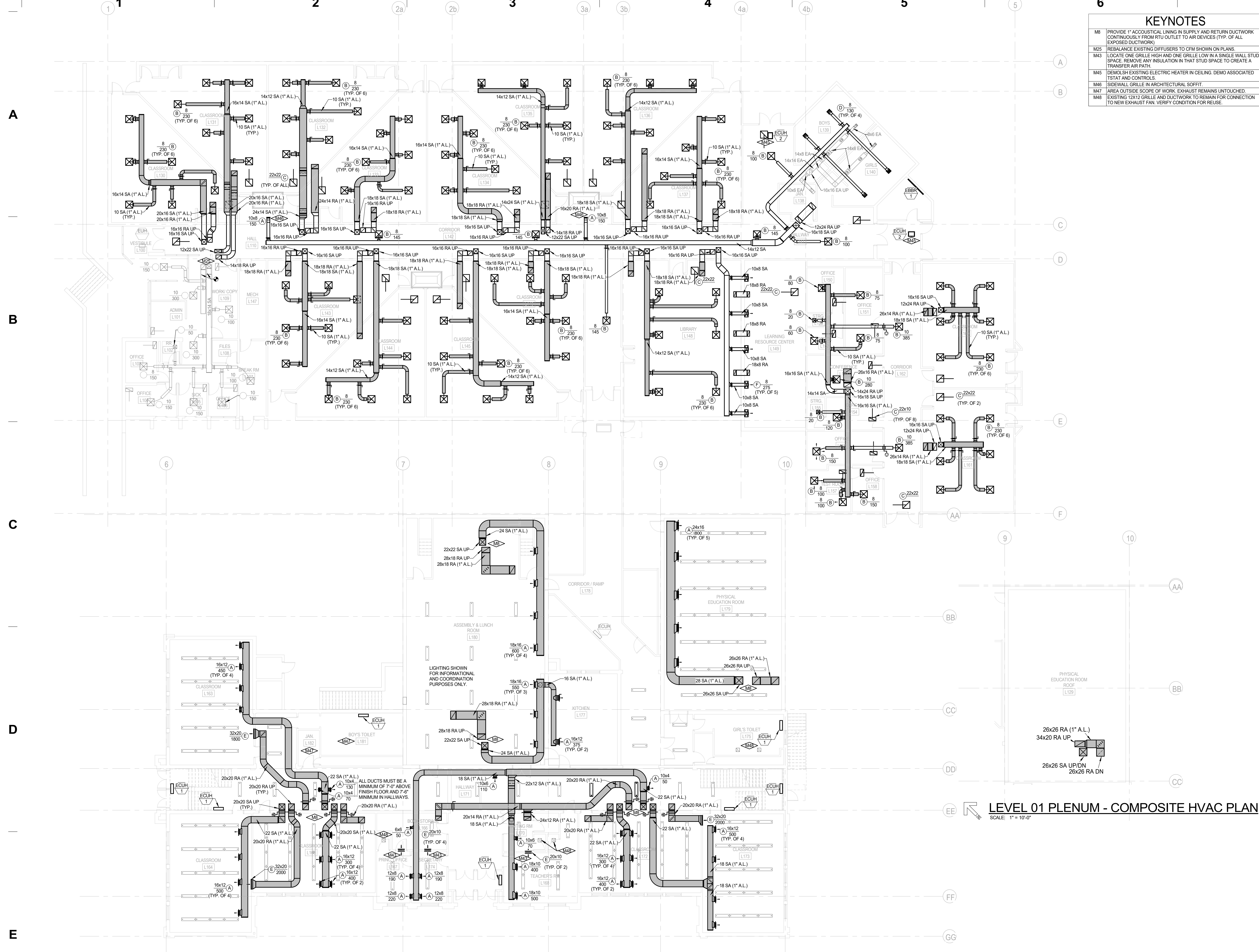


Project No: 23029
 Drawn By: AK
 Checked By: MG
 Date: 02/27/2025

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MD2.01

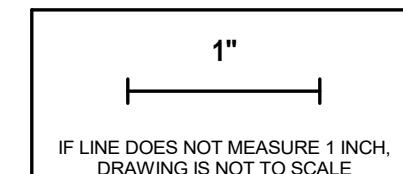
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KEYNOTES	
M8	PROVIDE 1" ACCOUSTICAL LINING IN SUPPLY AND RETURN DUCTWORK CONTINUOUSLY FROM RTU OUTLET TO AIR DEVICES (TYP. OF ALL EXPOSED DUCTWORK)
M25	REBALANCE EXISTING DIFFUSERS TO CFM SHOWN ON PLANS
M43	LOCATE ONE GRILLE HIGH AND ONE GRILLE LOW IN A SINGLE WALL STUD SPACE. REMOVE ANY INSULATION IN THAT STUD SPACE TO CREATE A TRANSFER AIR PATH.
M45	DEMOLISH EXISTING ELECTRIC HEATER IN CEILING. DEMO ASSOCIATED TRSTAT AND CONTROLS.
M46	SIDEWALL GRILLE IN ARCHITECTURAL SOFFIT.
M47	AREA OUTSIDE SCOPE OF WORK. EXHAUST REMAINS UNTOUCHED.
M48	EXISTING 12X12 GRILLE AND DUCTWORK TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN. VERIFY CONDITION FOR REUSE.



LEVEL 01 - COMPOSITE HVAC PLAN
SCALE: 1" = 10'-0"

LEVEL 01 PLENUM - COMPOSITE HVAC PLAN
SCALE: 1" = 10'-0"



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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
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TWIN FALLS, ID 83301

Sheet:
LEVEL 01 - HVAC PLAN

Revisions:

Project No: 23029
Drawn By: AK
Checked By: MG
Date: 02/27/2025

Sheet No: **M2.02**

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KEYNOTES

M1	DEMOLISH EXISTING UNIT VENTILATOR. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.) DEMO ASSOCIATED TSTAT AND CONTROLS.
M2	DEMO LOUVER AND INSTALL SHEET METAL COVER WITH INSULATION. RE ARCHITECTURAL (TYP.)
M3	DEMOLISH CABINET UNIT HEATER. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.) DEMO ASSOCIATED TSTAT AND CONTROLS.
M4	DEMO SWAMP COOLER IN WINDOW. DEMO ASSOCIATED WATER PIPING AND CONTROLS. SEE ARCH. PLANS.
M7	DEMOLISH EXISTING CEILING FAN.
M48	EXISTING 12X12 GRILLE AND DUCTWORK TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN. VERIFY CONDITION FOR REUSE.

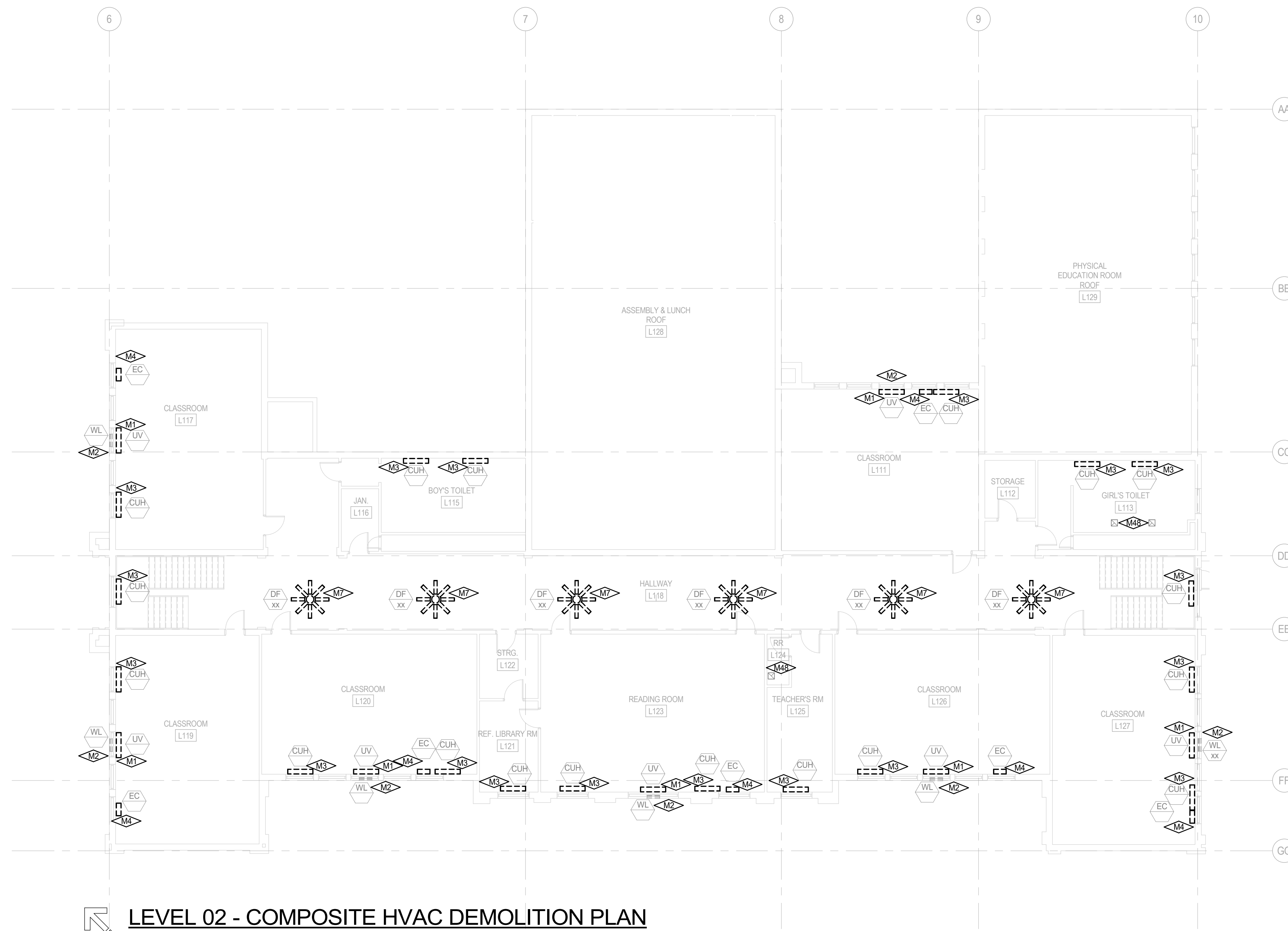
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LEVEL 02 - COMPOSITE HVAC DEMOLITION PLAN
 SCALE: 1" = 10'-0"

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Sheet:
 LEVEL 02 - HVAC DEMOLITION PLAN

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Project No: 23028
 Drawn By: AK
 Checked By: MG
 Date: 02/27/2025

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1"
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KEYNOTES

M23	ROUTE DUCTWORK ABOVE CEILING. FIELD COORDINATE TO AVOID PIPING IN SPACE.
M24	DROP DUCTWORK THROUGH CEILING INTO CORRIDOR BELOW. FIELD COORDINATE TO AVOID LIGHTS/PIPING BELOW.
M43	LOCATE ONE GRILLE HIGH AND ONE GRILLE LOW IN A SINGLE WALL STUD SPACE. REMOVE ANY INSULATION IN THAT STUD SPACE TO CREATE A TRANSFER AIR PATH.
M47	AREA OUTSIDE SCOPE OF WORK. EXHAUST REMAINS UNTOUCHED.
M48	EXISTING 12X12 GRILLE AND DUCTWORK TO REMAIN FOR CONNECTION TO NEW EXHAUST FAN. VERIFY CONDITION FOR REUSE.

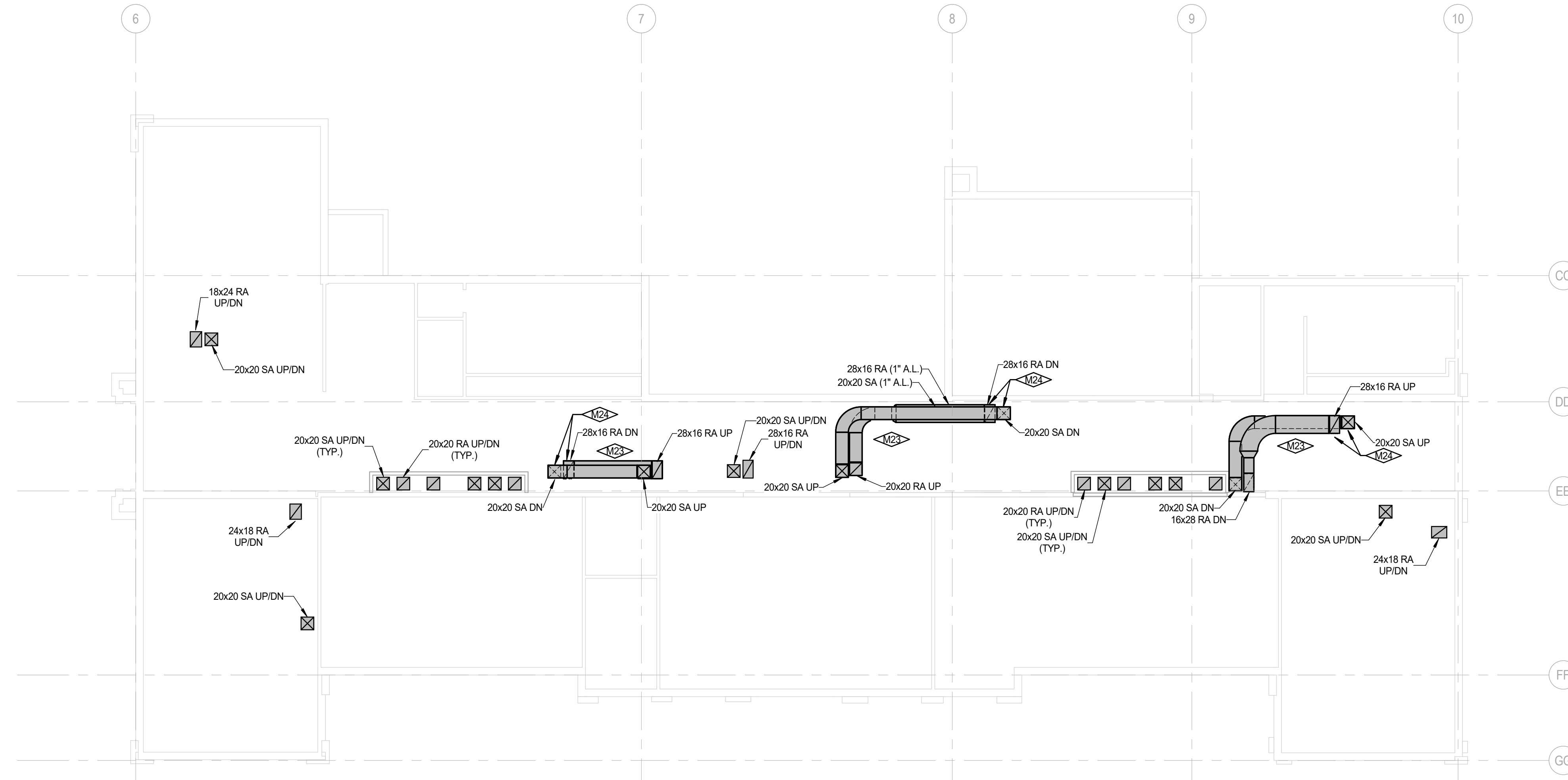
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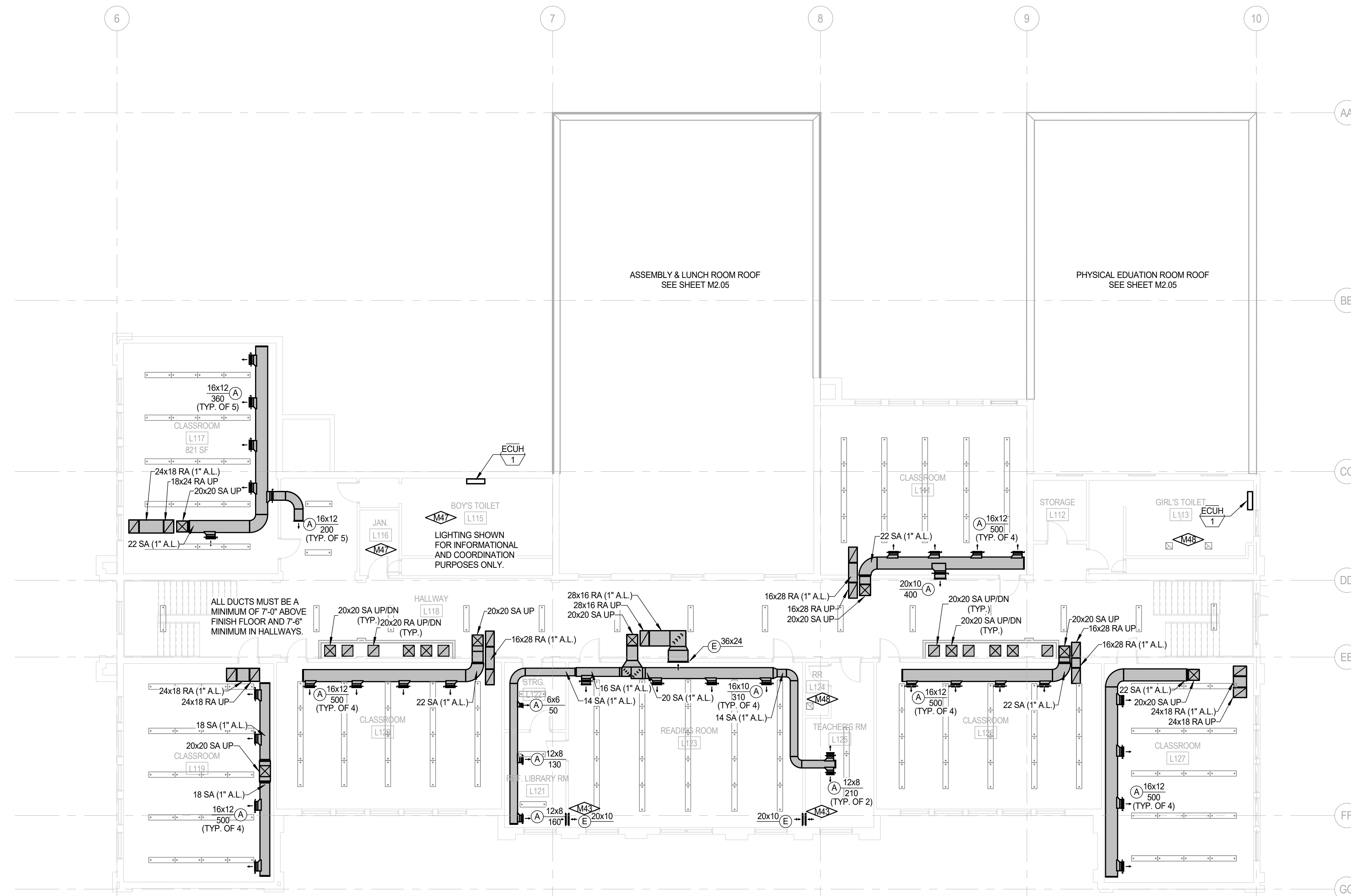
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LEVEL 02 PLENUM- HVAC PLAN
SCALE: 1" = 10'-0"



LEVEL 02 - COMPOSITE HVAC PLAN
SCALE: 1" = 10'-0"

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

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Sheet:
LEVEL 02 - HVAC PLAN

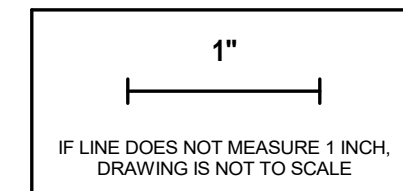
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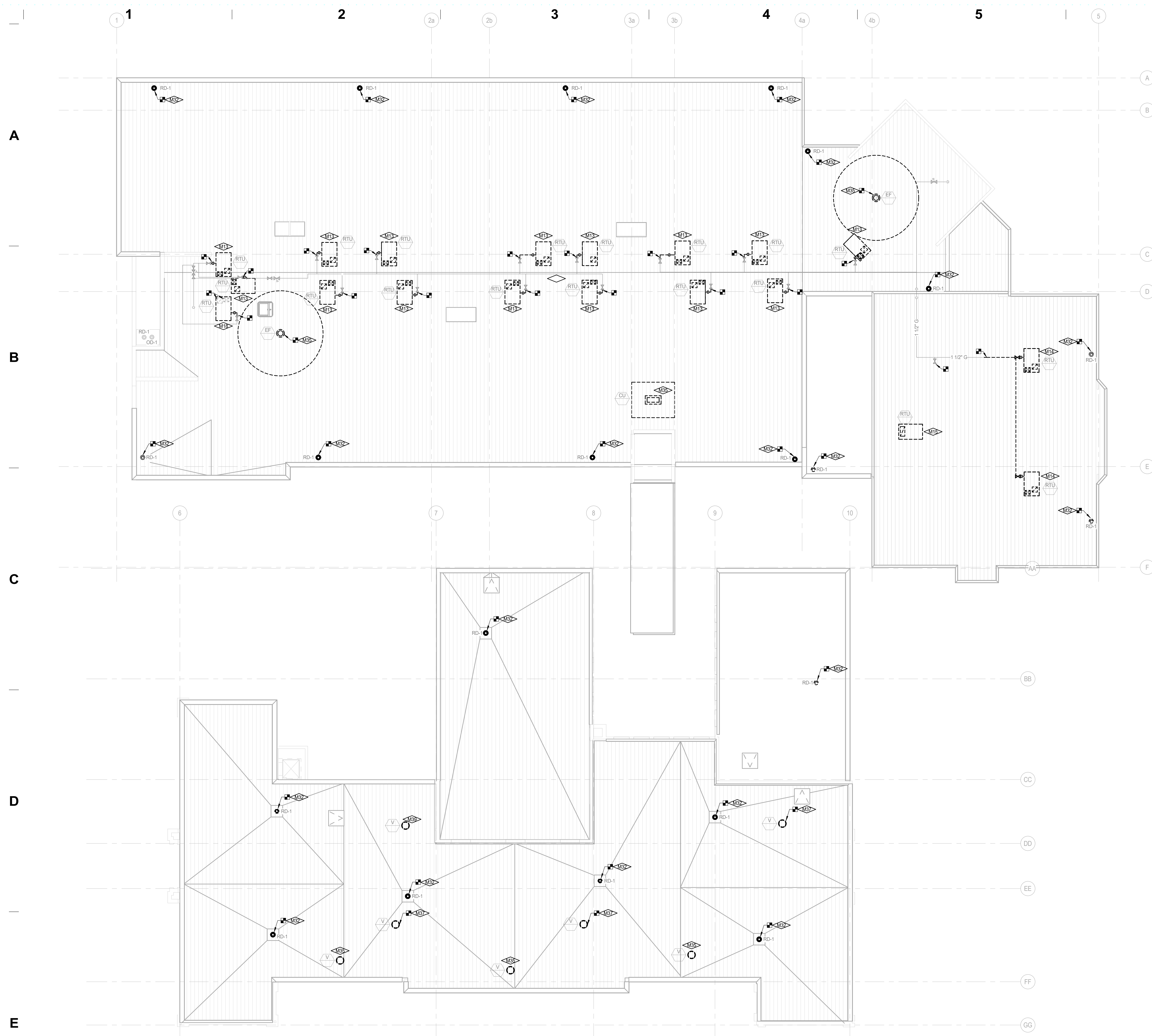
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KEYNOTES	
M13	DEMOLISH EXISTING ROOFTOP UNIT, ROOF CURB AND DUCTWORK. DISCONNECT GAS LINE AND PREPARE FOR CONNECTION TO NEW UNIT. ROOF OPENING TO REMAIN FOR REUSE.
M14	DEMOLISH ROOFTOP UNIT, ROOF CURB AND DUCTWORK. DISCONNECT GAS LINE AND PREPARE FOR CONNECTION TO NEW UNIT NEARBY. PATCH AND REPAIR ROOF.
M15	DEMOLISH EXISTING ROOFTOP UNIT, ROOF CURB AND DUCTWORK. ROOF OPENING TO REMAIN FOR REUSE.
M18	DEMOLISH ROOFTOP UNIT AND ROOF CURB. DUCTWORK TO REMAIN FOR CONNECTION TO NEW UNIT. DISCONNECT GAS LINE AND PREPARE FOR CONNECTION TO NEW UNIT. ROOF OPENING TO REMAIN FOR REUSE.
M32	DEMOLISH EXISTING ROOF DRAIN. PIPING TO REMAIN AND RECONNECT TO NEW ROOF DRAIN.
M35	MECHANICAL EQUIPMENT TO BE REMOVED AND REINSTALLED FOR ROOF REPLACEMENT.
M37	DEMOLISH EXISTING VENTILATOR. DUCTWORK TO REMAIN FOR CONNECTION TO NEW FAN. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK FOR REUSE.
M39	DEMOLISH EXISTING VENTILATOR ABANDONED IN PLACE. CONTRACTOR TO VERIFY VENTILATOR IS NO LONGER IN USE.

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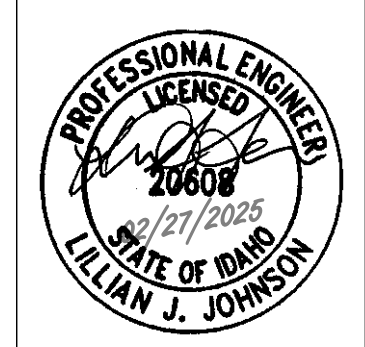
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Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 ROOF - MECHANICAL DEMOLITION PLAN

BID SET

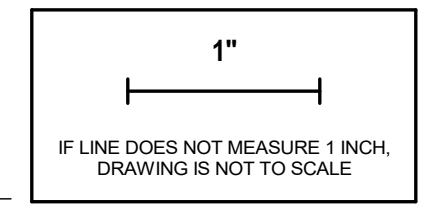


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Project No: 23029
 Drawn By: AK
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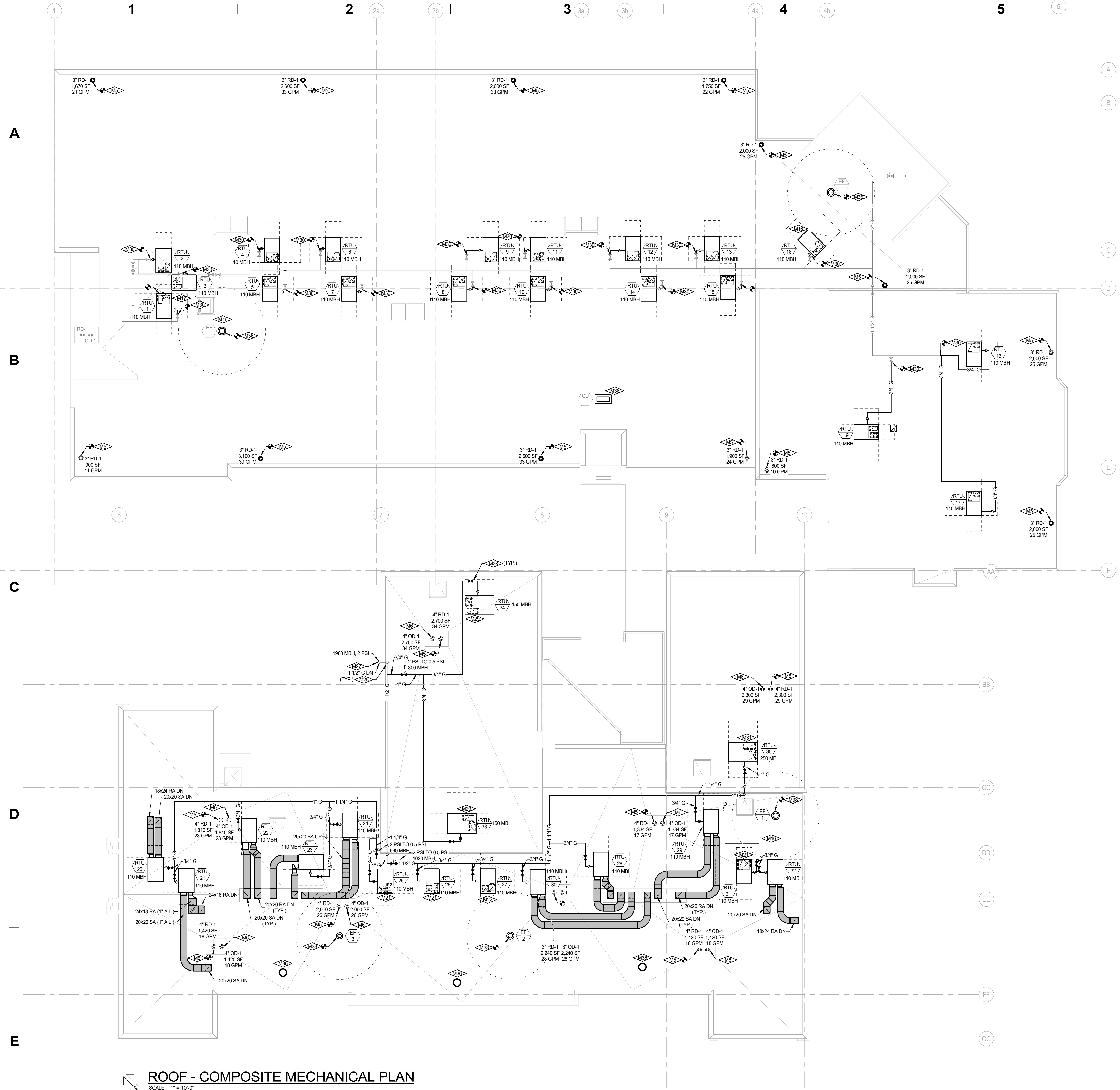
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MD2.03

ROOF - COMPOSITE MECHANICAL DEMOLITION PLAN
 SCALE: 1" = 10'-0"

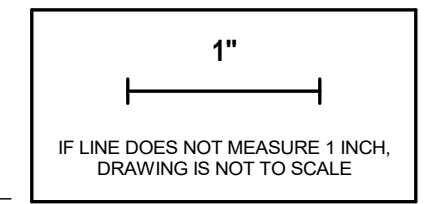


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KEYNOTES	
M5	INSTALL NEW ROOF DRAIN IN PLACE OF EXISTING. MODIFY EXISTING PIPING AS REQUIRED TO MAKE A PROPER CONNECTION.
M6	INSTALL NEW OVERFLOW DRAIN IN EXISTING ROOF. REFER TO ARCHITECTURAL PLANS FOR ROOFING INFORMATION. FIELD VERIFY LOCATION.
M16	RTU VENTILATION INLET SHALL BE A MINIMUM OF 10' FROM ALL EXHAUST FAN DISCHARGES (TYP.)
M17	CONNECT NEW RTU DUCTS TO EXISTING DUCTWORK.
M21	TRANSITION FROM RTU OPENING TO LINED 20X20 SUPPLY AIR DUCT AND LINED 28X18 RETURN AIR DUCT DOWN.
M22	TRANSITION FROM RTU OPENING TO LINED 20X20 SUPPLY AIR DUCT AND LINED 20X20 RETURN AIR DUCT DOWN.
M26	SUPPORT PIPING OFF ROOF WITH DURA BLOCK RUBBER PIPE SUPPORTS WITH PIPE CLAMPS, OR SIMILAR. INSTALL SUPPORTS A MINIMUM OF 8 FOOT ON CENTERS AND AT ALL JOINTS, UNIONS, ELBOWS, AND VALVES.
M27	DROP 1 1/2" 2 PSI GAS DOWN THE SIDE OF THE BUILDING AND CONNECT TO THE EXISTING MAIN OUT OF THE METER BELOW. MODIFY EXISTING PIPING AS REQUIRED TO MAKE A PROPER CONNECTION. FIELD VERIFY LOCATION AND CONFIRM PRESSURE.
M28	PROVIDE GAS SHUT-OFF AND DIRT LEG FOR EACH UNIT PER CODE.
M29	TRANSITION FROM RTU OPENING TO LINED 22X22 SUPPLY AIR DUCT AND LINED 28X18 RETURN AIR DUCT DOWN.
M30	RECONNECT WITH NEW GAS PIPING SAME SIZE AS EXISTING (TYP.)
M31	TRANSITION FROM RTU OPENING TO LINED 26X26 SUPPLY AIR DUCT AND LINED 34X20 RETURN AIR DUCT DOWN.
M36	REINSTALL EXISTING MECHANICAL EQUIPMENT REMOVED FOR ROOF REPLACEMENT.
M38	CONNECT NEW FAN TO EXISTING DUCTWORK. MODIFY AS NEEDED. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK FOR REUSE.



ROOF - COMPOSITE MECHANICAL PLAN
SCALE: 1" = 10'-0"



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TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
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Sheet:
ROOF - MECHANICAL PLAN

BID SET



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Project No: 23029
Drawn By: AK
Checked By: MG
Date: 02/27/2025

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KEYNOTES

M9 DEMOLISH STEAM BOILERS, CONDENSATE PUMPS, PNEUMATIC CONTROLS AIR COMPRESSOR, CONDENSATE RECEIVER AND WATER TREATMENT. DEMOLISH ALL ASSOCIATED STEAM AND CONDENSATE PIPING TO THE GREATEST EXTENT POSSIBLE.

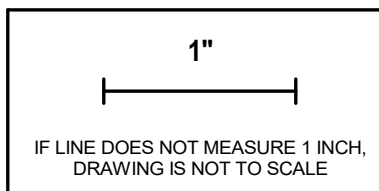
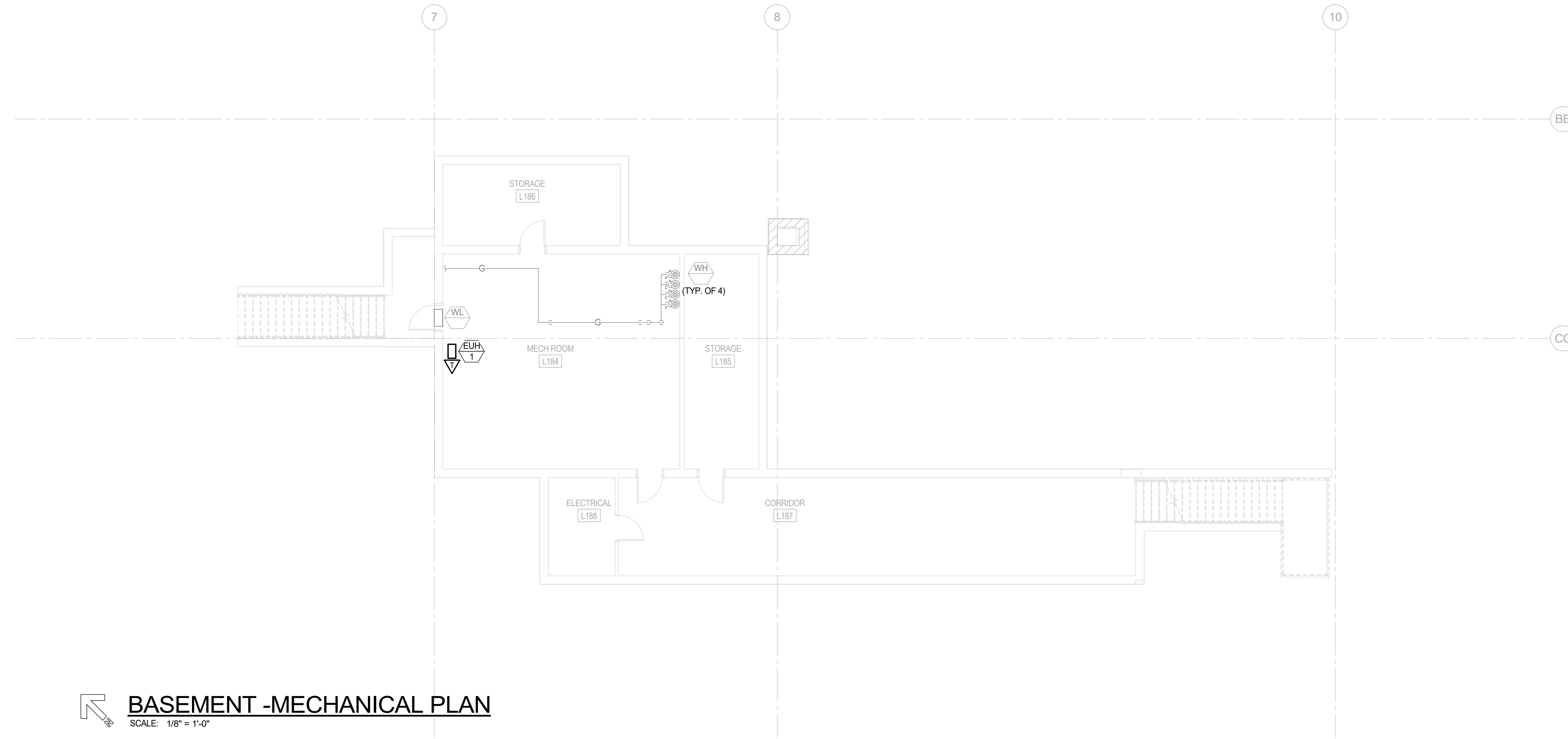
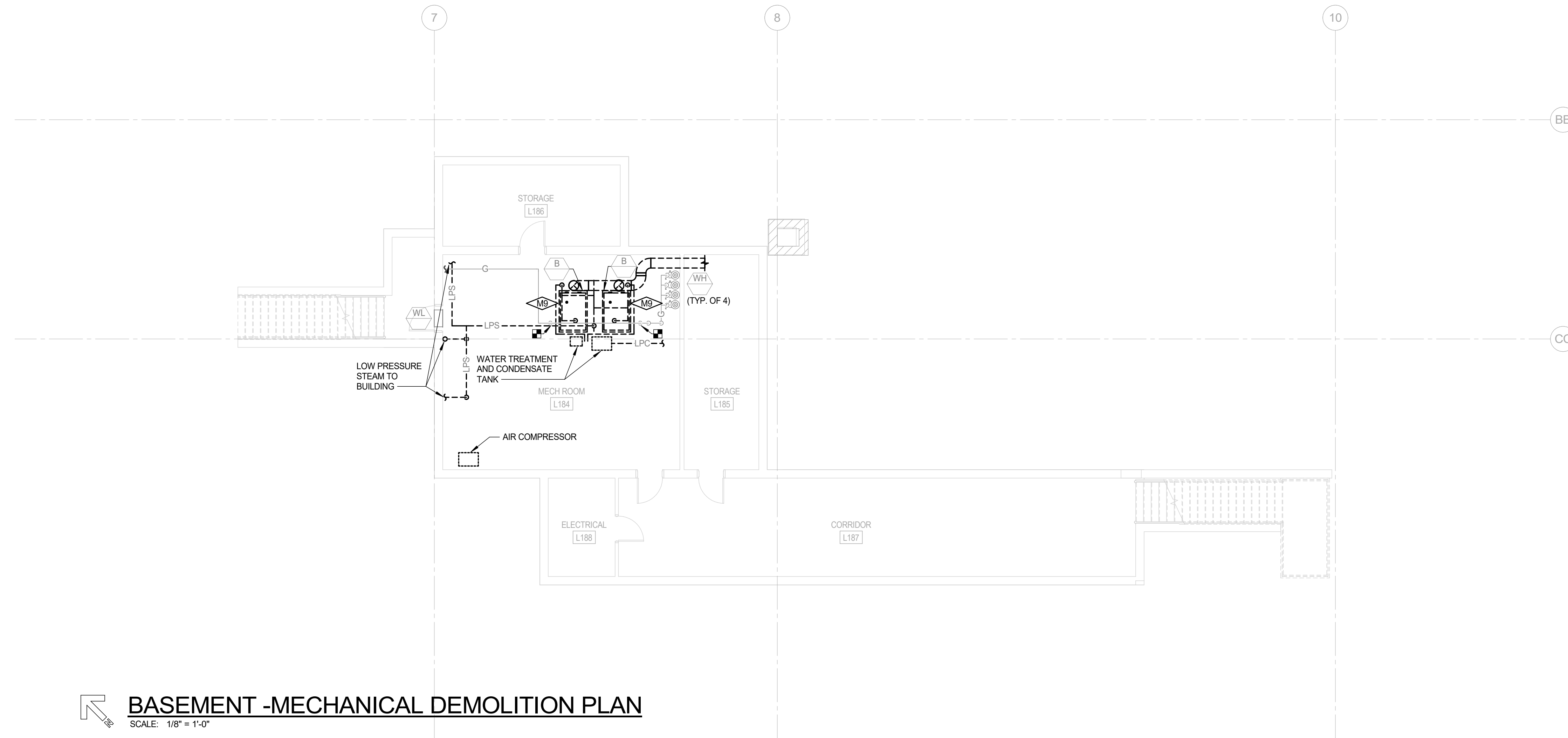
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LINCOLN ELEMENTARY SCHOOL
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 TWIN FALLS, ID 83301

Sheet:
 BASEMENT - MECHANICAL PLAN

BID SET

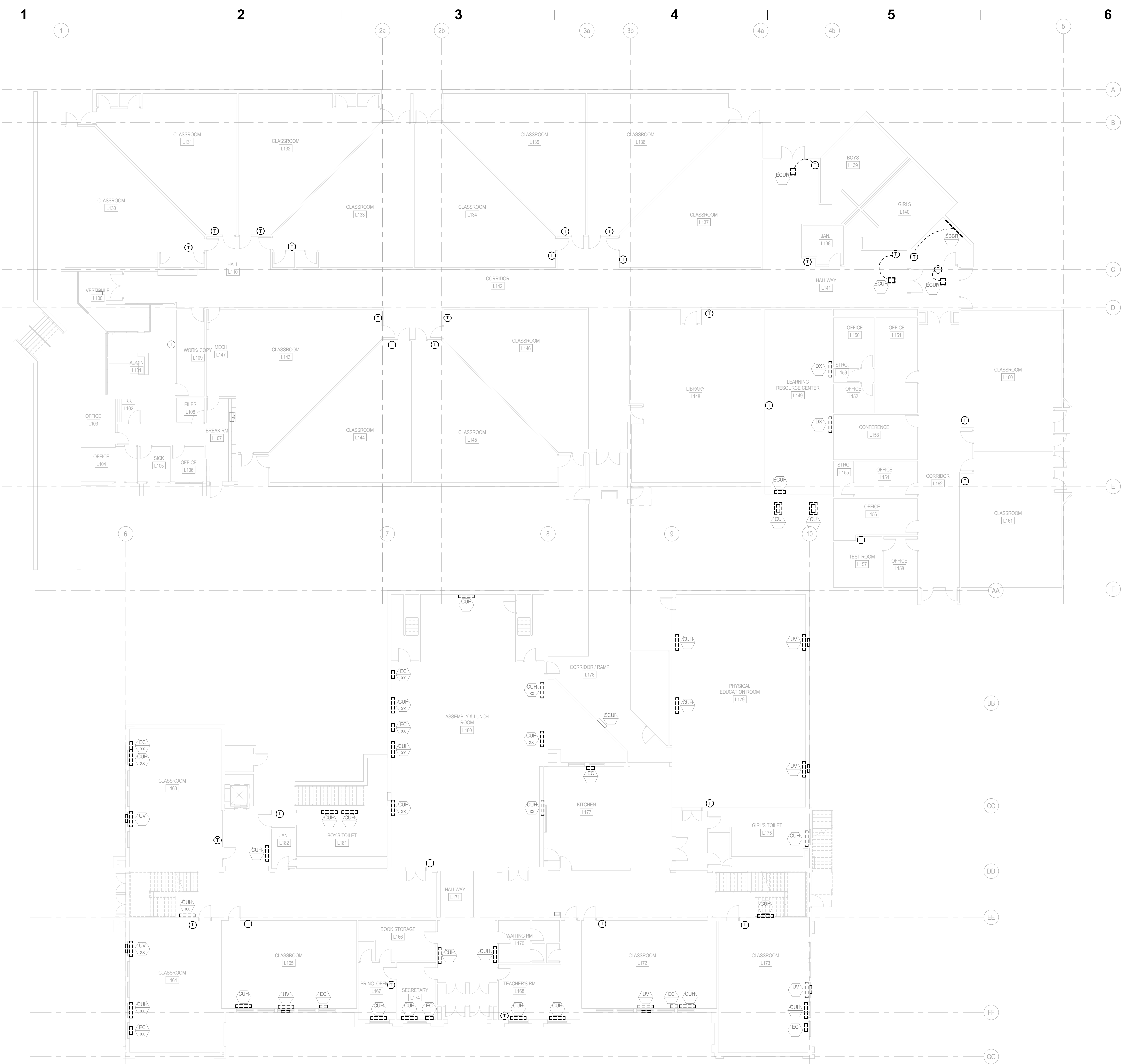


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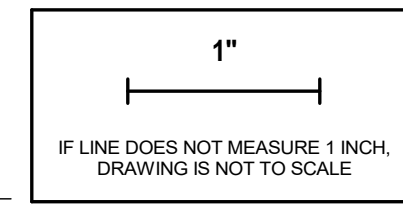
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Sheet No:
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LEVEL 1 HVAC PIPING DEMOLITION PLAN
 SCALE: 1" = 10'-0"



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 TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 01 - HVAC PIPING DEMOLITION PLAN

BID SET



Revisions: △

Project No: 23028
 Drawn By: AK
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 Date: 02/27/2025

Sheet No:
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KEYNOTES

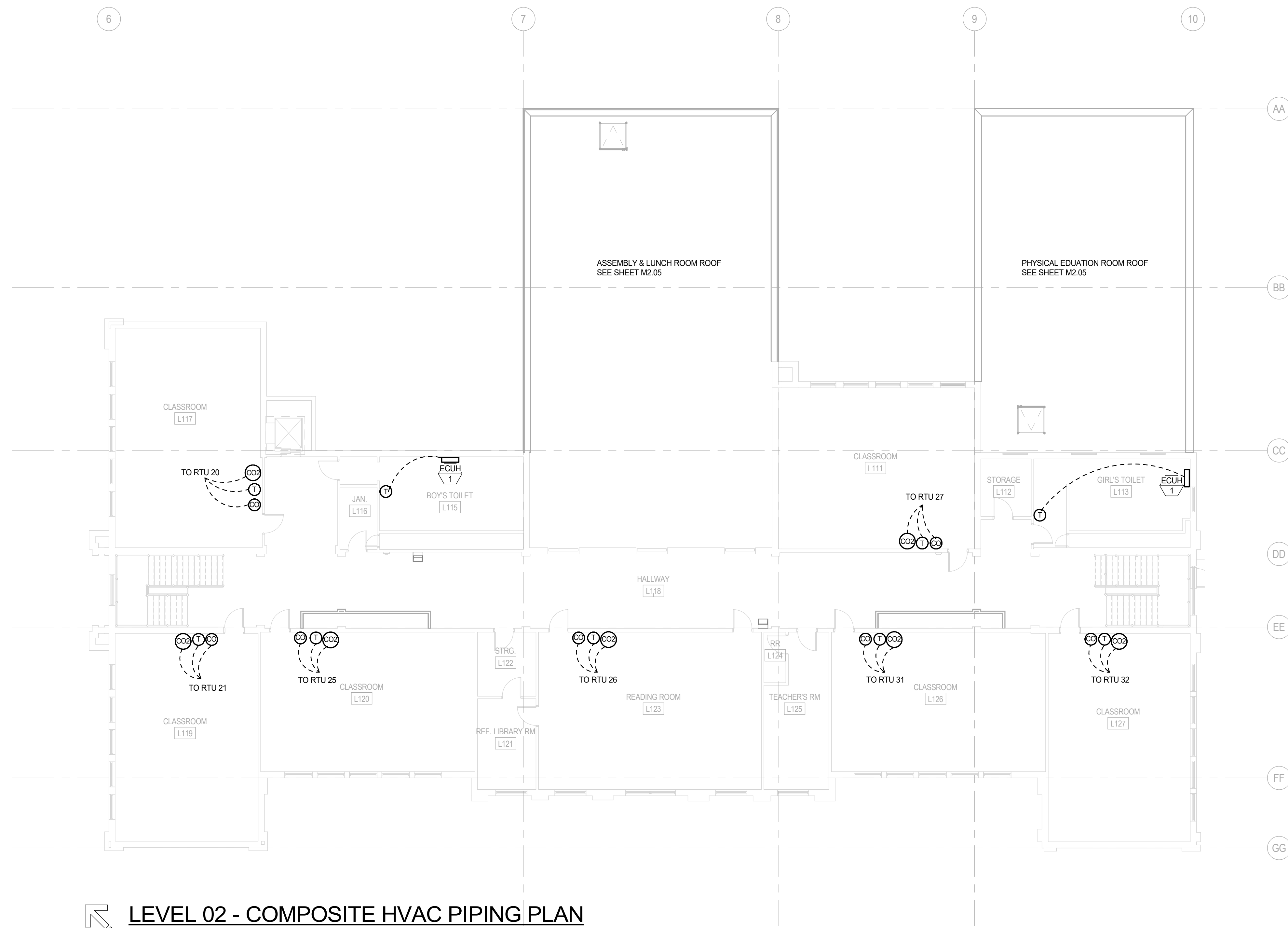
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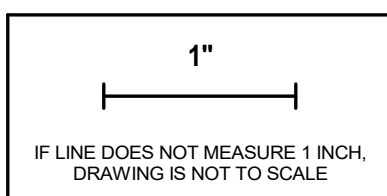
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LEVEL 02 - COMPOSITE HVAC PIPING PLAN
 SCALE: 1" = 10'-0"



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Project:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 02 - HVAC PIPING PLAN

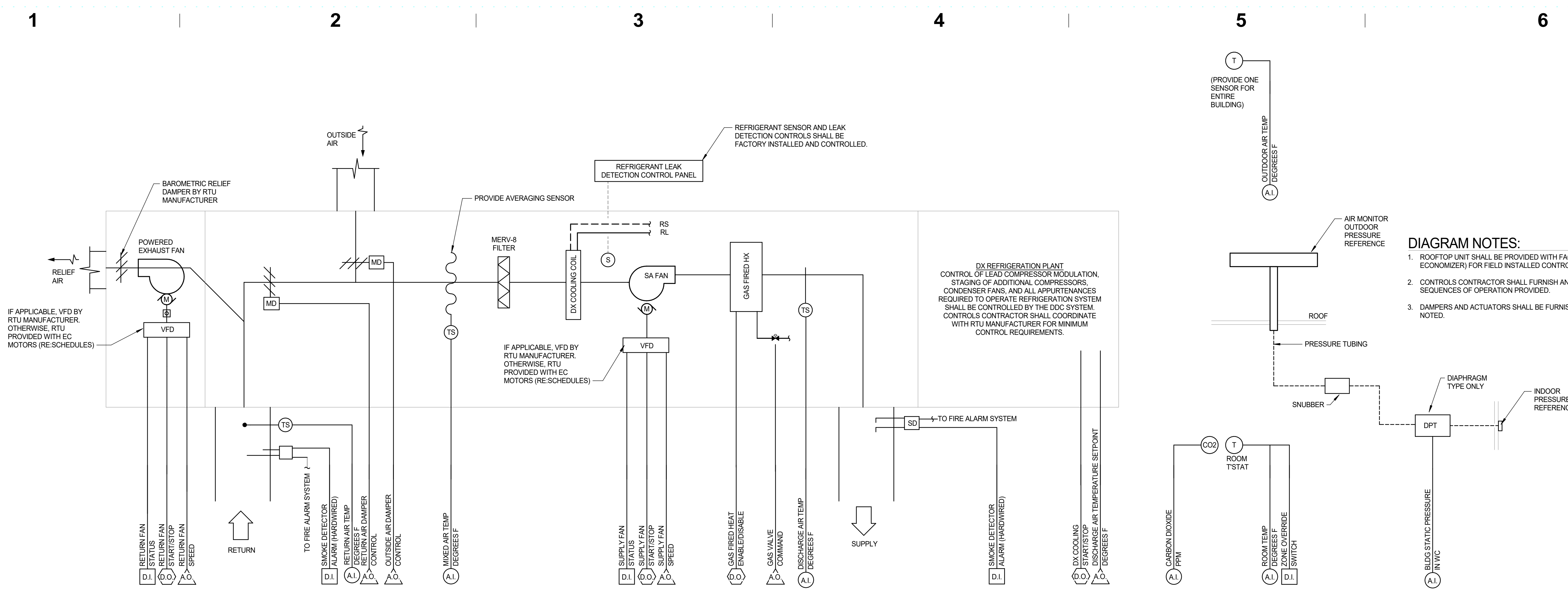
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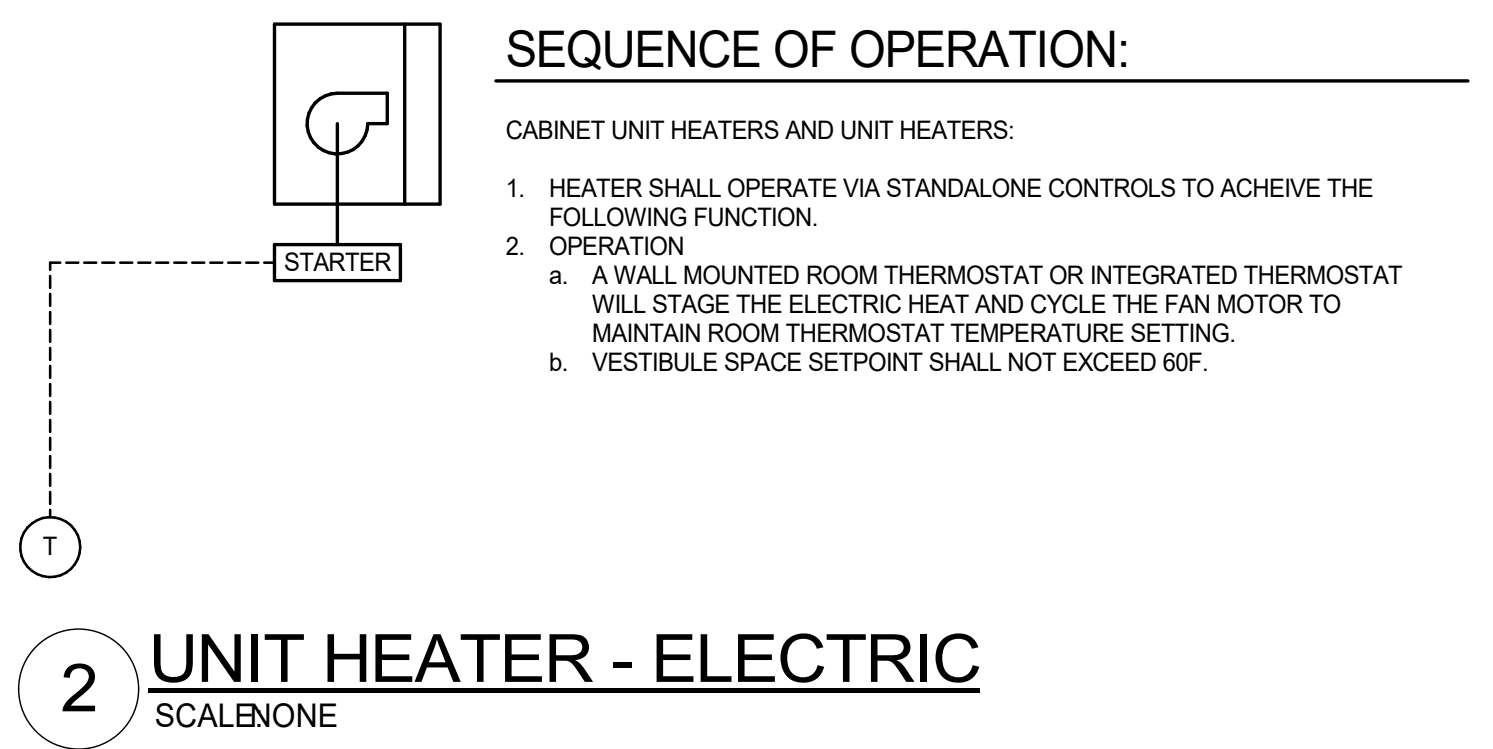


SEQUENCE OF OPERATION:
SINGLE-ZONE VARIABLE AIR VOLUME ROOF TOP UNITS:

- A. Supply Fan Control and Supply Air Temperature Setpoint Reset**
- The supply fan shall run whenever the unit is in any mode other than Unoccupied Mode.
 - Provide a ramp function to prevent changes in fan speed of more than 10% per minute.
 - If the unit is equipped with a VFD, Fan speeds shall be as follows:
 - Fan speed shall be reset linearly based on space temperature.
 - When space is satisfied operate at Min-speed. As the heating or cooling load increases increase fan speed correspondingly to max speed (heating or cooling).
 - Max Heating speed shall be 75% (adj)
 - Max Cooling Speed shall be 100% (adj)
- B. Minimum and maximum supply air temperature setpoints shall be as follows:**
- The Deadband values of SATsp shall be the average of the zone heating setpoint and the zone cooling setpoint, but shall be no lower than 70°F and no higher than 75°F.
 - When the supply fan is proven on, fan speed and supply air temperature setpoints are controlled as shown in the following diagrams and text. The points of transition along the x-axis shown and described below are representative. Contractor shall adjust the precise value of the x-axis thresholds shown in the figure to provide stable control.
-
- a. Fan Speed Control (As applicable):**
- For a Heating Loop signal of 100% - 0%, fan speed is reset from MaxHeatSpeed to MinSpeed.
 - In Deadband, fan speed setpoint is MinSpeed.
 - For a Cooling Loop signal of 0% - 100%, fan speed is reset from MinSpeed to MedSpeed.
- b. Supply Air Temperature Setpoint**
- For a Heating Loop signal of 100% - 50%, SATsp is 100 deg F (adj).
 - For a Heating Loop signal of 50% - 0%, SATsp is reset from 100 deg F (adj) to the Deadband value (~70 deg F as described above).
 - In Deadband, SATsp is the Deadband value.
 - For a Cooling Loop signal of 0% - 75%, SATsp is reset from the Deadband value to 55 deg F.
 - For a Cooling Loop signal above 75%, SATsp is unchanged at 55deg F, the supply fan speed continues to increase to additional cooling capacity.
- C. Outdoor Air Damper Control**
- Modulate the air damper shall be modulated to the greater of the economizer command or the ventilation command.
 - An economizer control loop shall modulate the outdoor air damper open to meet the supply air temperature setpoint anytime the unit is in cooling mode and the outdoor air temperature is less than the return air temperature.
 - Ventilation command is determined based on zone level CO2 feedback. The ventilation rate is reset linearly between MinVent and MaxVent based on the number of zones that have a high CO2 concentration.
 - Minimum Outdoor airflow shall be controlled by **modulating the mixed air temperature** and modulating the outdoor air damper to achieve the ventilation setpoint. The volume of outdoor air is determined by a weighted ratio of the return and outdoor air temperatures. The BAS shall evaluate the actual temperatures and calculate the appropriate ratio every 15min (minimum) and modulate the outdoor air damper to achieve the required volume of outdoor air (based on the calculated mixed air temperature).
 - The Outdoor Air Volume is calculated as follows:
 - $\% \text{ OUTSIDE AIR} = (\text{TEMP}_{\text{mix}} - \text{TEMP}_{\text{return}}) / (\text{TEMP}_{\text{outdoor air}} - \text{TEMP}_{\text{return}})$
 - $\text{OUTDOOR AIR VOLUME} = \% \text{OA} * \text{UNIT CAPACITY} * (\text{SUPPLY FAN SPEED} / 100)$
 - The outdoor air volume setpoint shall be reset between the absolute minimum and the ventilation maximum (see mechanical schedule for setpoints).
 - When zones are calling for additional ventilation air (CO2 control loop >50% as defined in the VAV sequence of operation) then utilize a trim and response reset algorithm to adjust the minimum ventilation setpoint between the absolute minimum and the ventilation maximum.
- | VARIABLE | VALUE |
|-----------------------|---------------------------|
| SP _{min} | SP _{min} |
| SP _{max} | ABSOLUTE MIN OA |
| SP _{vent} | VENTILATION MAX OA |
| T _{vent} | 10 MINUTES |
| T _{resp} | 2 MINUTES |
| R | ZONE VENTILATION REQUESTS |
| SP _{trim} | +300 CFM |
| SP _{res} | -300 CFM |
| SP _{res-max} | -300 CFM |
- D. Economizer Lockout**
- The outside will be utilized for free cooling anytime the supply air temperature setpoint is less than return temperature and the return temperature is greater than the outside air temperature by at least 2 deg F. If the outside air temperature is greater than the return air temperature disable the economizer.
 - Modulate the outside air damper to maintain a mixed air temperature 2 deg F below the supply air temperature setpoint when the economizer is enabled.
 - Once the economizer is disabled, it shall not be re-enabled within 10 minutes and vice versa.
- E. Relief Fan and Building Static Pressure Control**
- Relief Fan Control - Building Pressure Control**
- Relief fan operates whenever associated supply fan is proven on.
 - Relief fan speed shall be controlled to maintain building static pressure at setpoint. The setpoint shall be determined during balancing (utilize +0.04 inw as the base condition). This setpoint should be determined in 100% economizer mode and should result in a slightly positive building in that mode.

SEQUENCE OF OPERATION (CONT.):

- F. Night Setback and Warmup Mode:**
- Warm Up: The BAS shall calculate the required warm up time based on the zone's occupied heating setpoint, the current zone temperature, the outdoor air temperature, and a mass/capacity factor for each zone. The mass factor shall be manually adjusted or self-tuned by the BAS. If automatic, the tuning process shall be turned on or off by a software switch, to allow tuning to be stopped after the system has been trained. Warmup Mode shall start based on the zone with the longest calculated warm up time requirement, but no earlier than 3 hours before the start of the scheduled occupied period and shall end at the scheduled Occupied start hour.
 - Night Setback Mode: During Unoccupied Mode operate the air handling unit to maintain zone temperatures.
 - NSB Heating: If the zone falls below the unoccupied heating setpoints, the AHU shall enter Setback Mode until the zone is 5°F above their unoccupied setpoints.
 - The OA damper shall be closed in NSB mode that unit shall operate in 100% return air mode
 - Supply air setpoint shall by 55 deg F
 - NSB cooling: If the zone temperature rises above their unoccupied cooling setpoints the AHU shall enter Night Setback Mode until the zone is 5°F below the unoccupied setpoint.
 - The OA damper shall be closed in NSB mode that unit shall operate in 100% return air mode unless outside air temperature is below the supply air temperature setpoint. Then outside air shall be utilized for cooling
 - Supply air setpoint is 55 deg F
- G. Fault Detection and Diagnostics (FDD)**
- Economizer Fault Detection and Diagnostics (FDD)
 - Economizer Temperature Sensor Failure.
 - Not Economizing when it Should.
 - Economizing when it Should Not.
 - Damper Not Modulating.
 - Excess Outdoor Air.
- H. Alarms and Safeties**
- Generate a fan failure alarm if the status being different from the command for a period of 15 seconds.
 - Commanded on, status off: Level 2
 - Commanded off, status on: Level 4
 - Generate a high building pressure alarm if the building static pressure is more than 0.10". Level 3
 - Generate a low building pressure alarm if the building is negative (less than 0.07)". Level 4
 - Generate a heating failure alarm if the supply air temperature is 15 deg F below the setpoint: Level 2. If the supply air temperature is less than 40 deg F, shut the unit down until the low temp alarm is reset by an operator.
 - Generate a cooling failure alarm if the supply air temperature is 15 deg F above the setpoint: Level 2
 - Refrigeration Leak Detection (Factory Controls)
 - Upon leak detection by the refrigerant sensor the supply fan shall be enabled (if not already enabled) and run until refrigerant is diluted below permissible levels.
 - The factory control panel shall display that a leak has occurred and be visible until alarm is acknowledged.



ROOFTOP UNIT - VAV, RETURN FANS, GAS HEAT, SINGLE ZONE
SCALBNONE

- DIAGRAM NOTES:**
- ROOFTOP UNIT SHALL BE PROVIDED WITH FACTORY TERMINAL STRIP (BASIS OF DESIGN: MICROMETL DRY BULB ECONOMIZER) FOR FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR.
 - CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL DDC HARDWARE TO MEET THE REQUIREMENTS OF THE SEQUENCES OF OPERATION PROVIDED.
 - DAMPERS AND ACTUATORS SHALL BE FURNISHED BY THE ROOFTOP UNIT MANUFACTURER UNLESS OTHERWISE NOTED.

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT
LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
MECHANICAL CONTROLS

Revisions: △

Project No: 23029
Drawn By: AK
Checked By: MG
Date: 02/27/2025

Sheet No: **M4.01**

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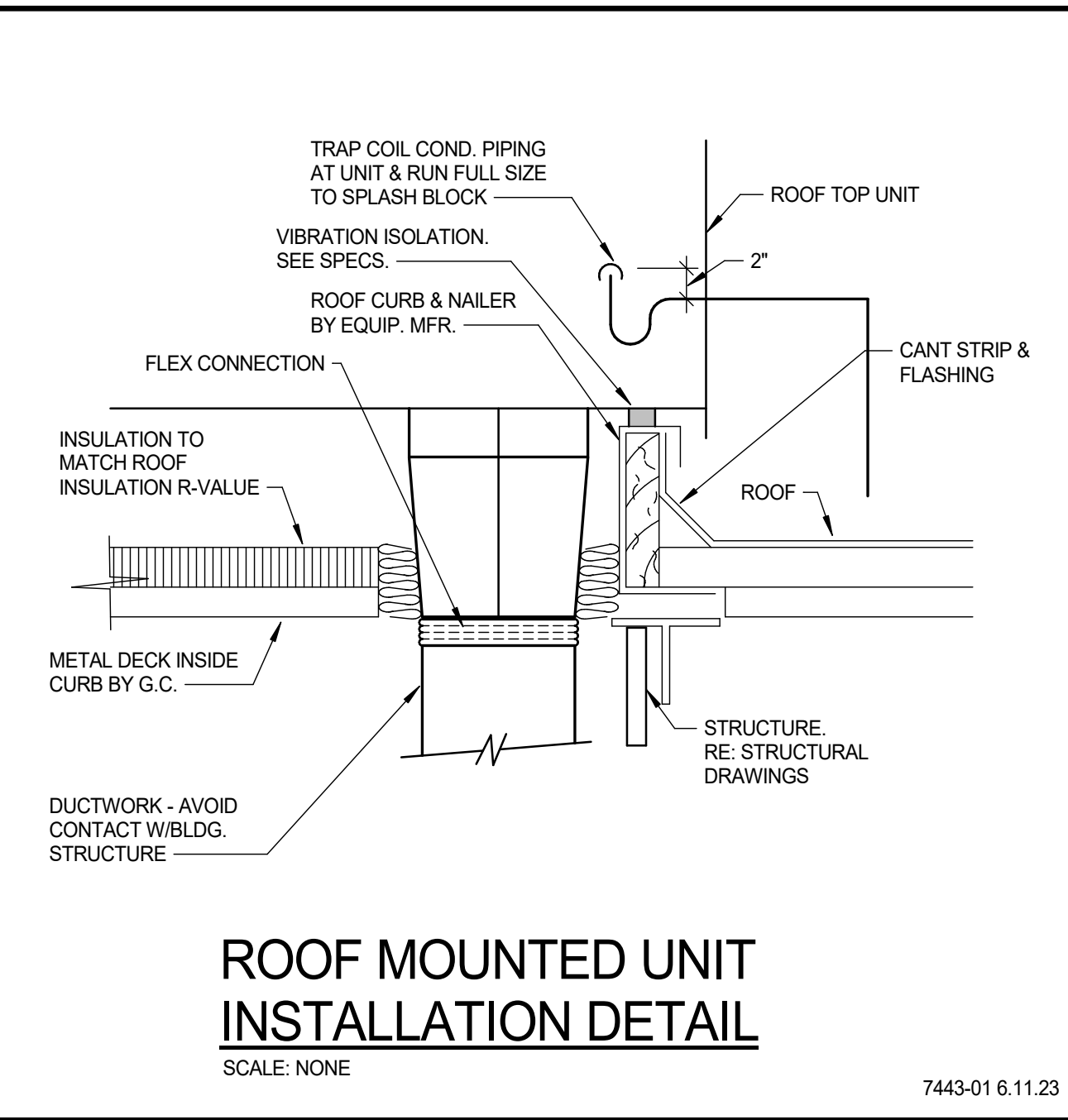
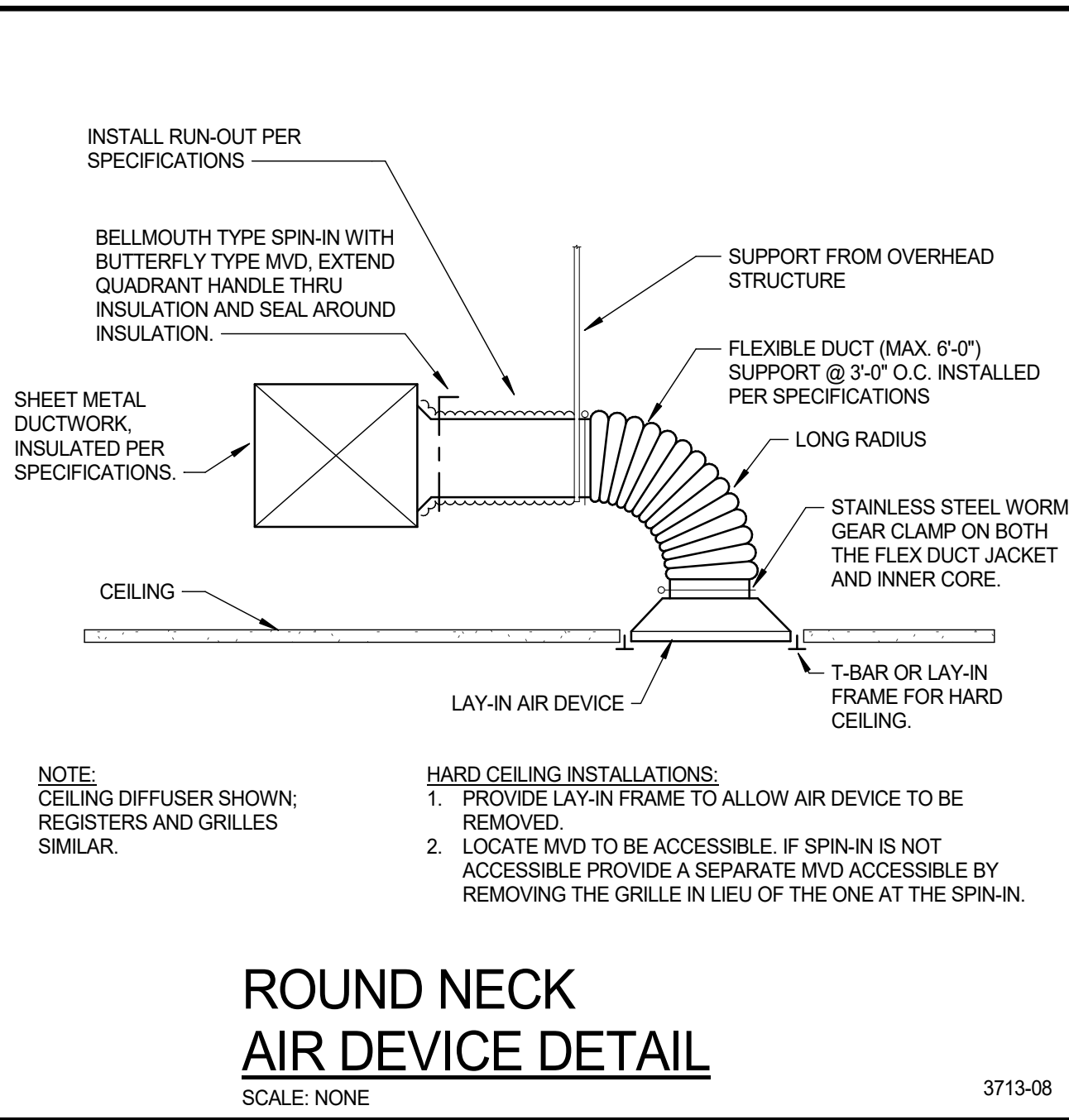
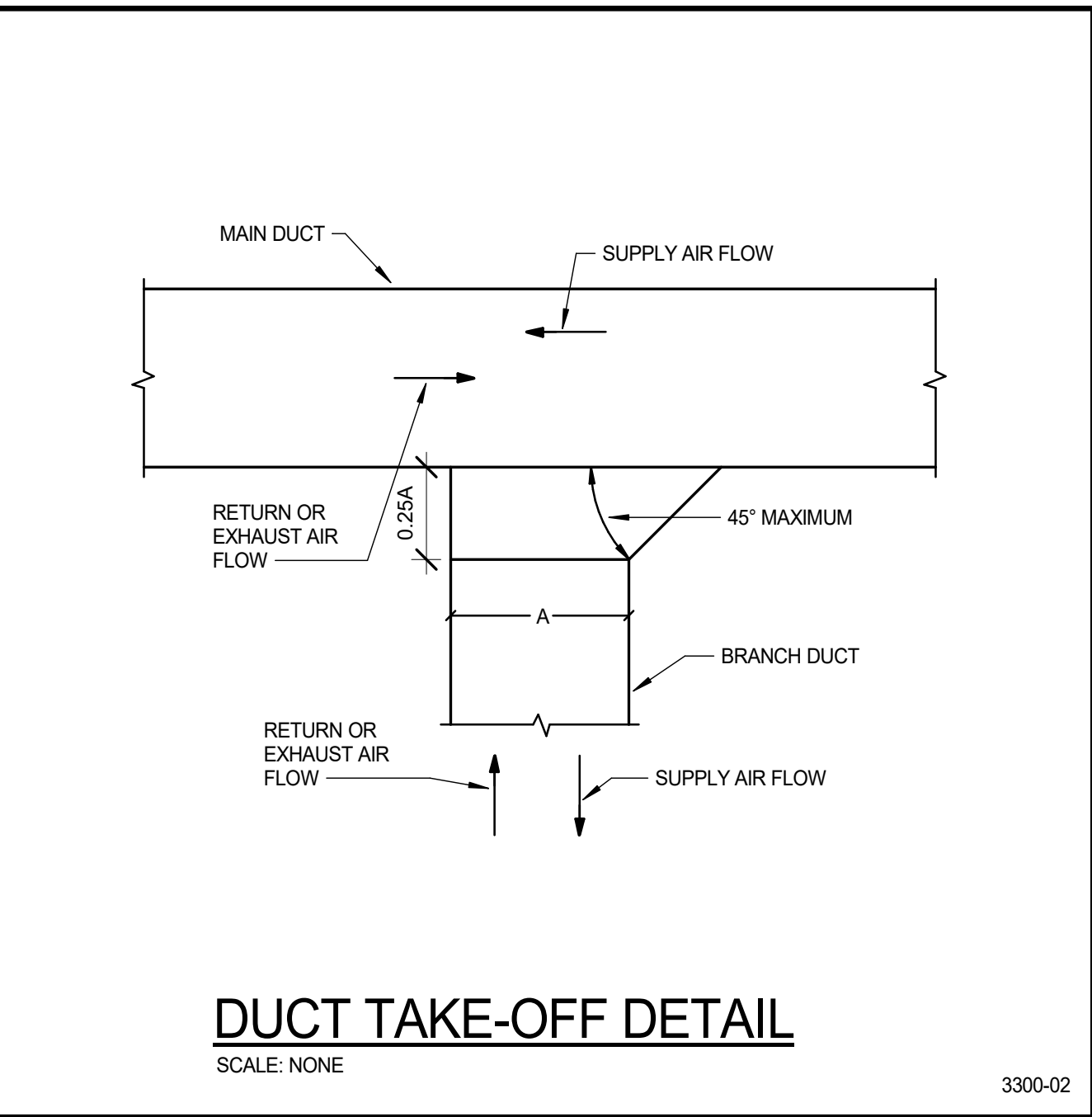
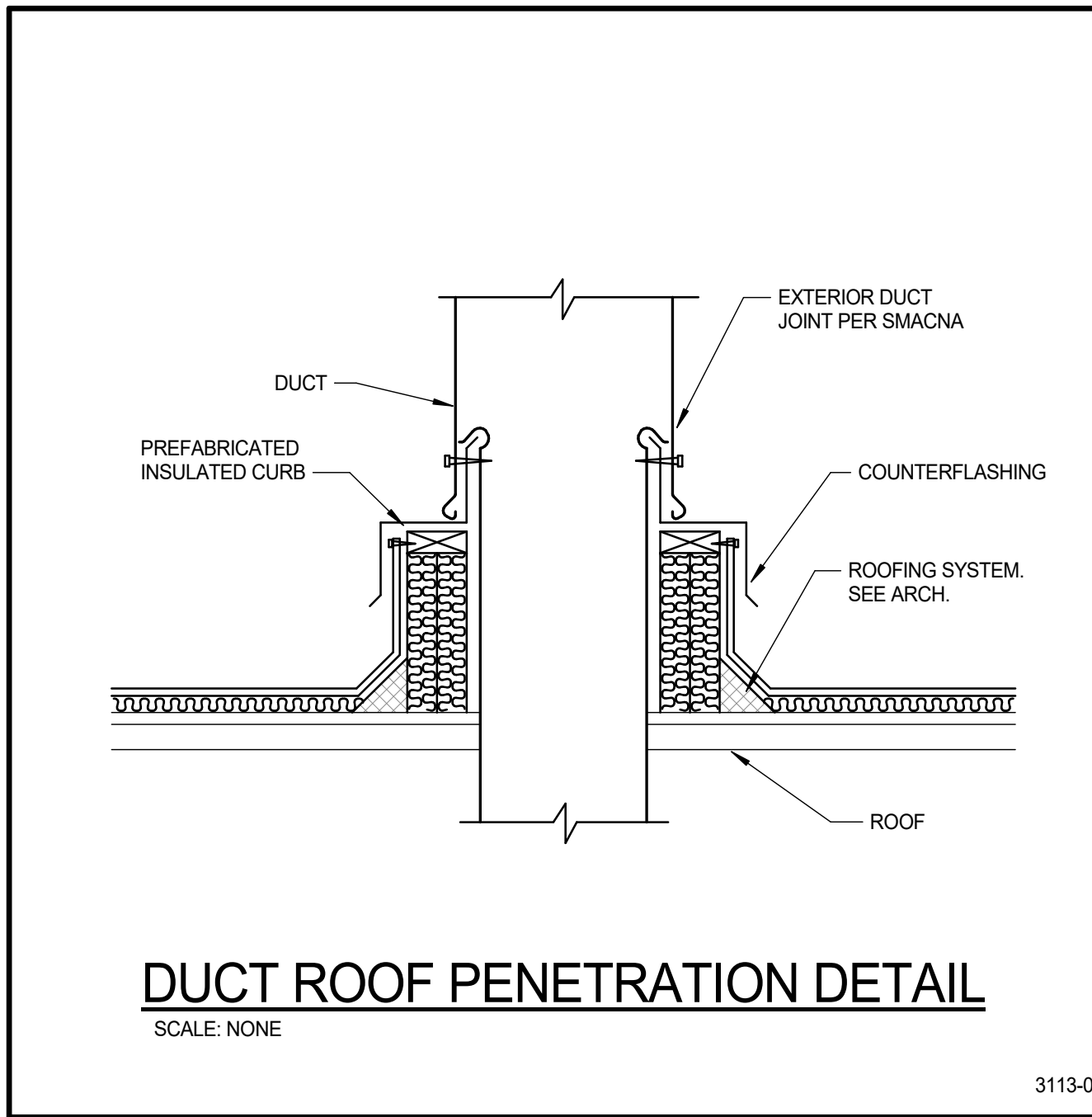
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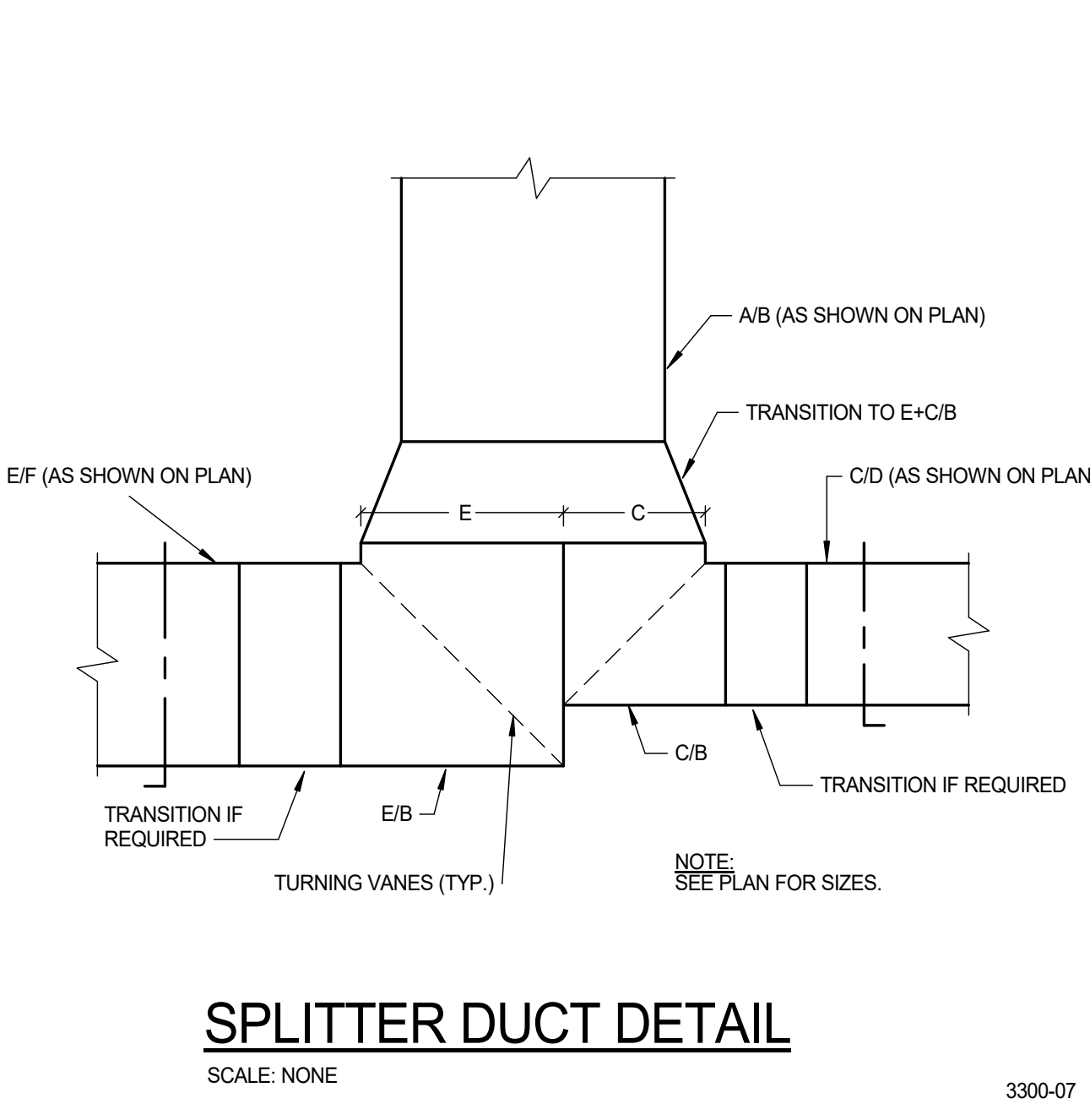
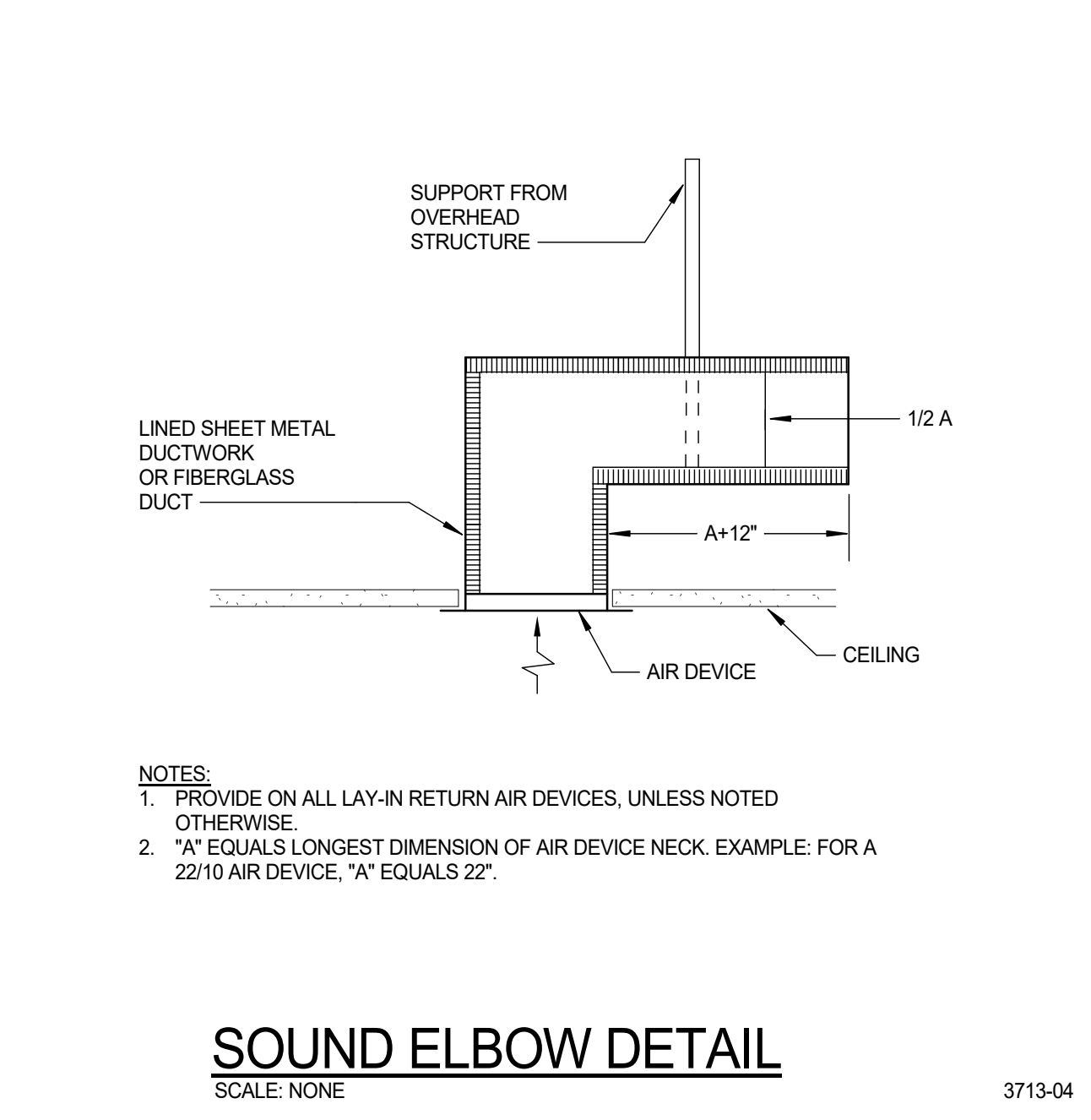
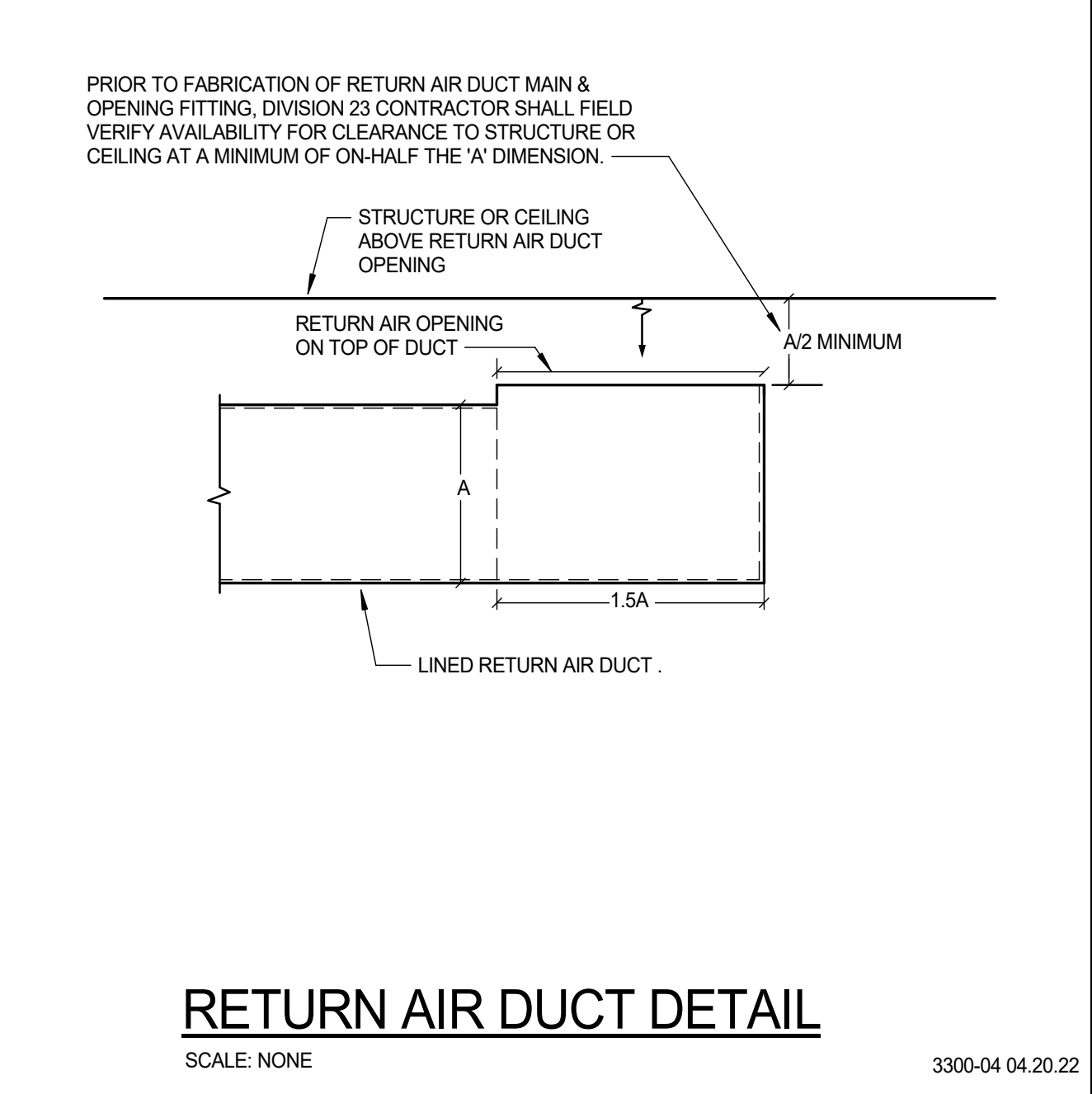
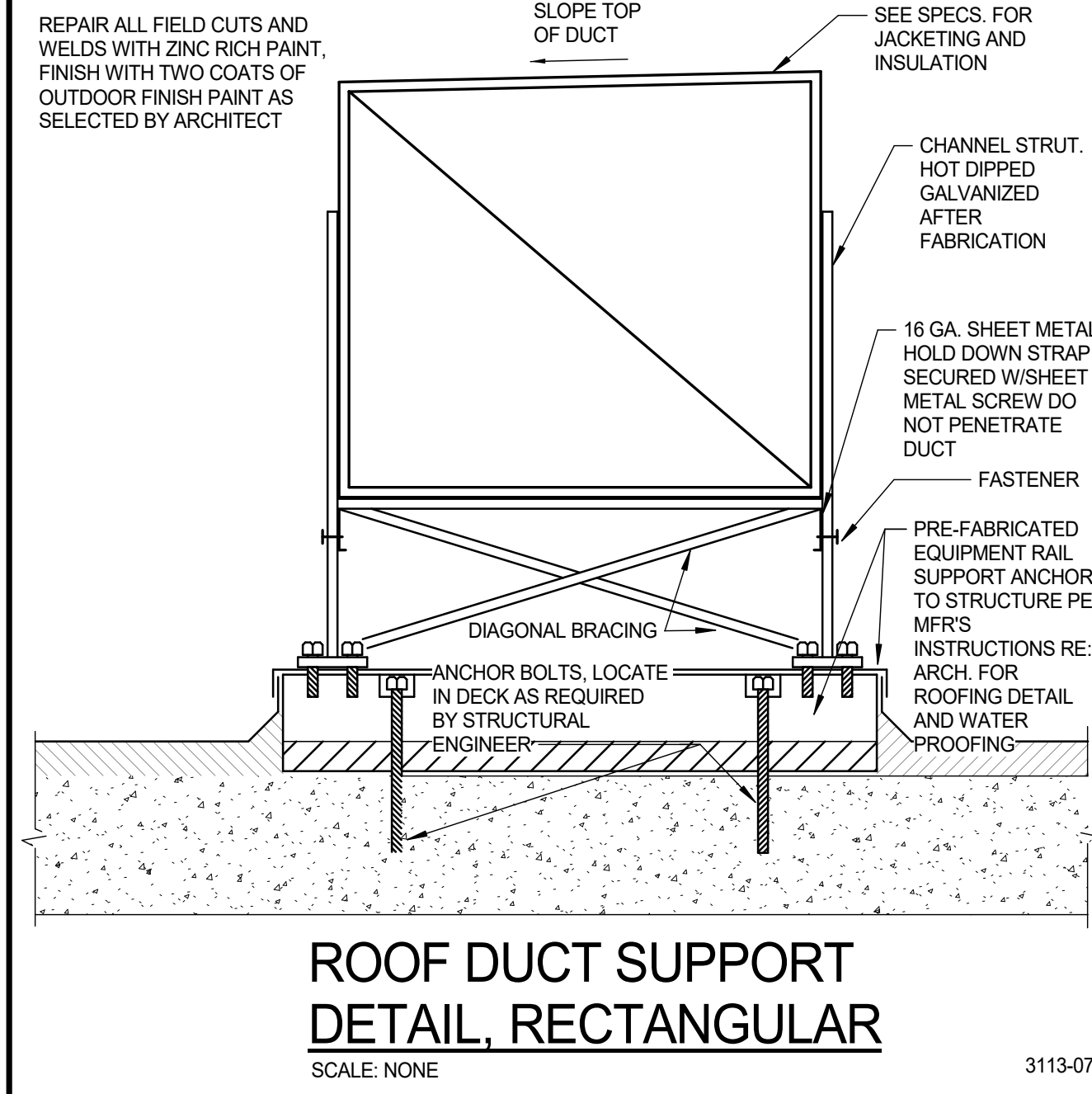
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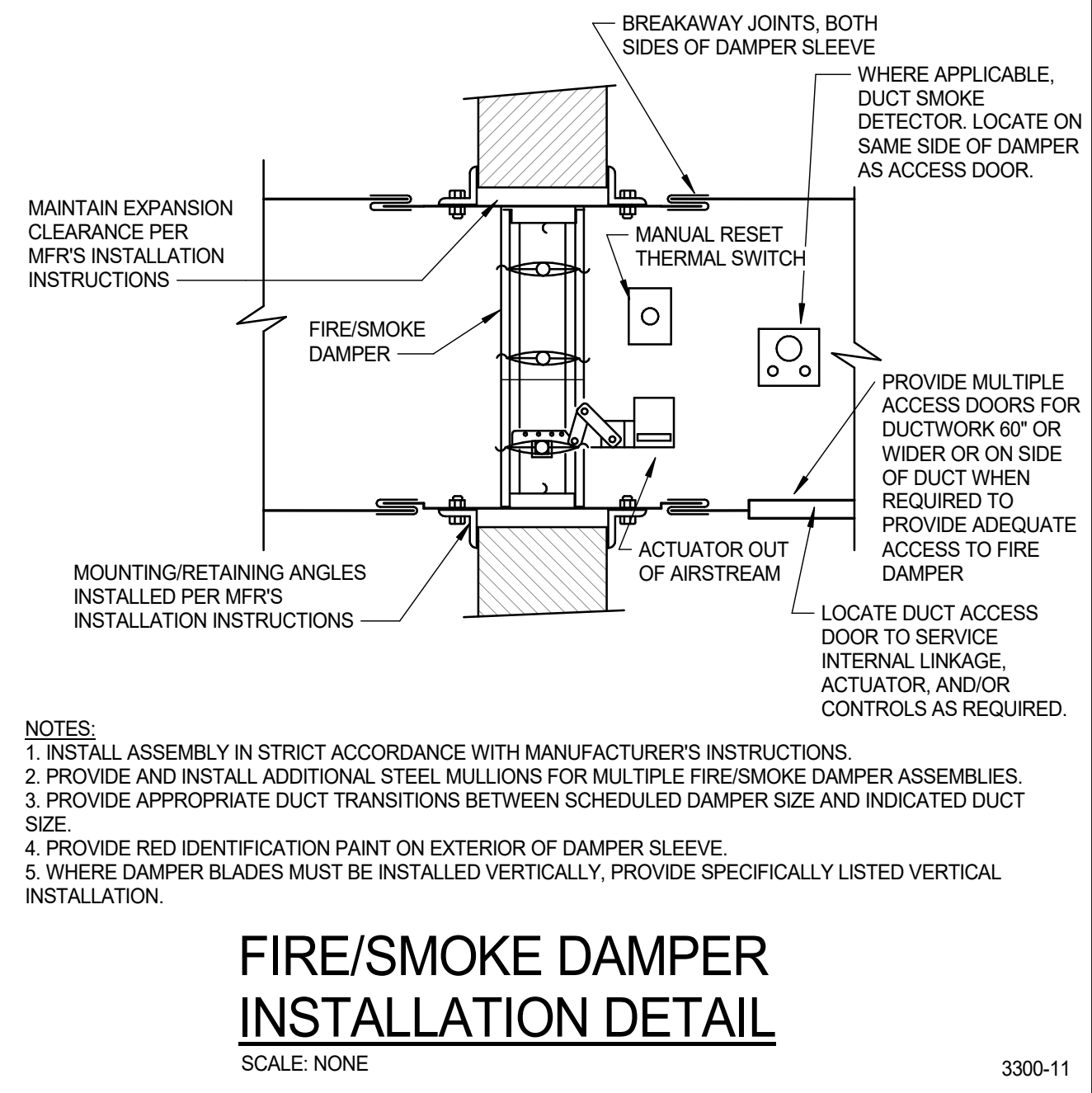
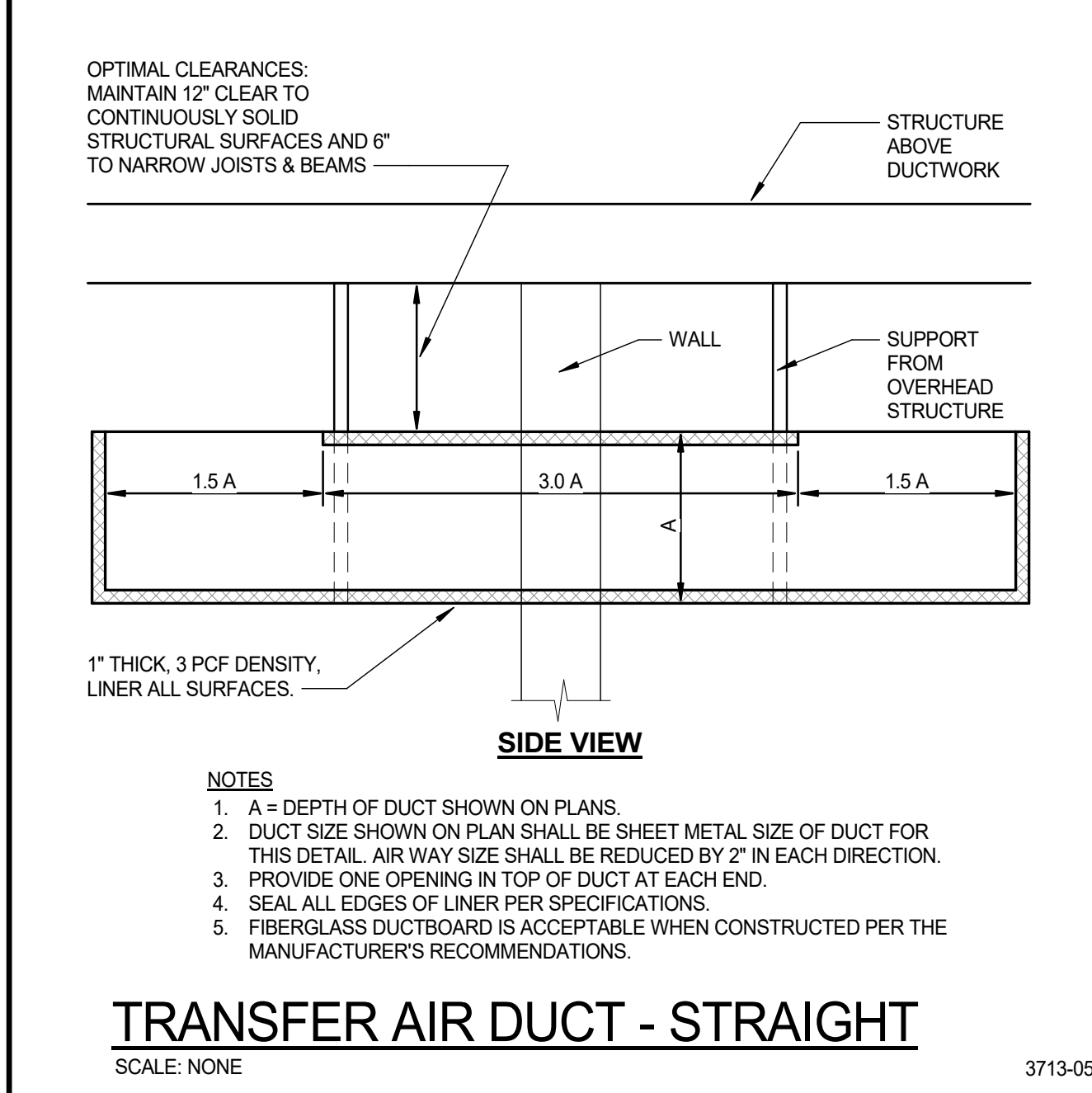
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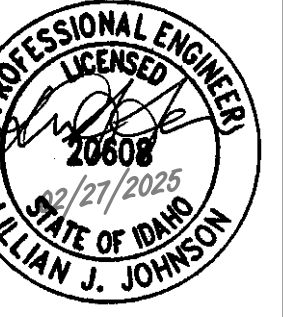
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
MECHANICAL DETAILS

Revisions: △



Project No: 23029
Drawn By: AK
Checked By: MG
Date: 02/27/2025

Sheet No: M5.01

BID SET

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GENERAL LEGEND
(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		SECTION DESIGNATION			CAP END OF PIPE
		SECTION CUT ON THIS SHEET			PITCH DOWN IN DIRECTION OF ARROW
		VIEW REFERENCE DESIGNATION			PIPE ANCHOR
		VIEW REFERENCE ON THIS SHEET			PIPE ALIGNMENT GUIDE
		EQUIPMENT UNIT IDENTIFICATION			UNION OR FLANGE
		EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)			CONCENTRIC PIPE REDUCER
		DIFFUSER IDENTIFICATION			ECCENTRIC PIPE REDUCER
		DIFFUSER NECK DIAMETER	PRV		PRESSURE REDUCING VALVE
		DIFFUSER CFM	PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		LINEAR DIFFUSER IDENTIFICATION			ISOLATION VALVE (RE: SPEC FOR TYPE)
		LINEAR DIFFUSER NECK DIAMETER			VERTICAL PIPE VALVE
		LINEAR DIFFUSER LENGTH			CHECK VALVE
		LINEAR DIFFUSER CFM	CV		CHECK VALVE
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH			SOLENOID / MOTORIZED VALVE
		EQUIPMENT UNIT IDENTIFICATION			SOLENOID VALVE
		RADIATOR ENCLOSURE LENGTH (OR W-W-WALL-TO-WALL)			HOSE END DRAIN VALVE
		KEY NOTE REFERENCE	PIT		PRESSURE / TEMPERATURE TAP
		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE			STRAINER
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN
		POINT OF CONNECTION, NEW TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR
		POINT OF DISCONNECTION, DEMO			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		DIRECTION OF FLOW IN PIPE			THERMOMETER
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED			PRESSURE GAUGE
(E)		EXISTING			SIGHT GLASS
(N)		NEW	C.A.P.		CEILING ACCESS PANEL
(R)		RELOCATED			PUMP
(F)		FUTURE	TB		THRUST BLOCK
DIA	Ø	DIAMETER	MAV		MANUAL AIR VENT
WAD		WALL ACCESS DOOR	AAV		AUTOMATIC AIR VENT
NC		NOT IN CONTRACT			
AFF		ABOVE FINISHED FLOOR			
GC		GENERAL CONTRACTOR			
MC		MECHANICAL CONTRACTOR			
EC		ELECTRICAL CONTRACTOR			
UNO		UNLESS NOTED OTHERWISE			
C		COMMON			
NC		NORMALLY CLOSED			
NO		NORMALLY OPEN			

DEMOLITION GENERAL NOTES:

- EXISTING ITEMS TO REMAIN ARE DEMOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL WORK REQUIRED PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENT.
- CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENT.
- PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- WHERE EXISTING PIPING, WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
- WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.

GENERAL NOTES:

- WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNERS EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS, OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- COORDINATE WORK WITH ALL TRADES.
- CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
- COORDINATE ALL PIPING WITH EQUIPMENT, STRUCTURE, ETC.
- CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

PLUMBING NOTES:

- CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
- THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS. VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS.
- ALL EXISTING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING CONTROLS, HANGERS, SUPPORTS AND ANY MISCELLANEOUS ASSOCIATED SERVICE OR PART REMOVED COMPLETELY.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE ELEVATIONS AND LOCATIONS.
- SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR DIMENSIONED LOCATION OF PLUMBING FIXTURES AND WALLS.
- PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS PER THE PROJECT SPECIFICATIONS AND LOCAL PLUMBING CODES.

PLUMBING SPECIALTY SCHEDULE

NOTES:
1.

DESIG.	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL #	REMARKS
DSN-1	DOWNSPOUT NOZZLE	EXTERIOR WALL	J.R. SMITH	1775-CP	CHROME PLATED BRASS FINISH WITH WALL FLANGE
OD-1	OVERFLOW ROOF DRAIN	ROOF	J.R. SMITH	1070	CAST IRON DRAIN WITH CAST IRON DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVER ASSEMBLY AS REQUIRED
RD-1	ROOF DRAIN	ROOF	J.R. SMITH	1010	CAST IRON DRAIN WITH CAST IRON DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVER ASSEMBLY AS REQUIRED

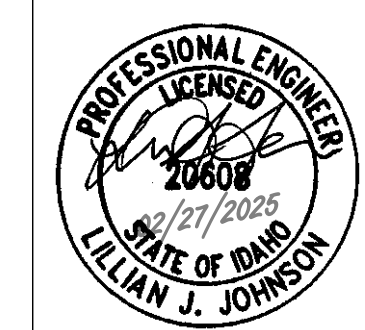


Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
PLUMBING LEGENDS, NOTES & SCHEDULES

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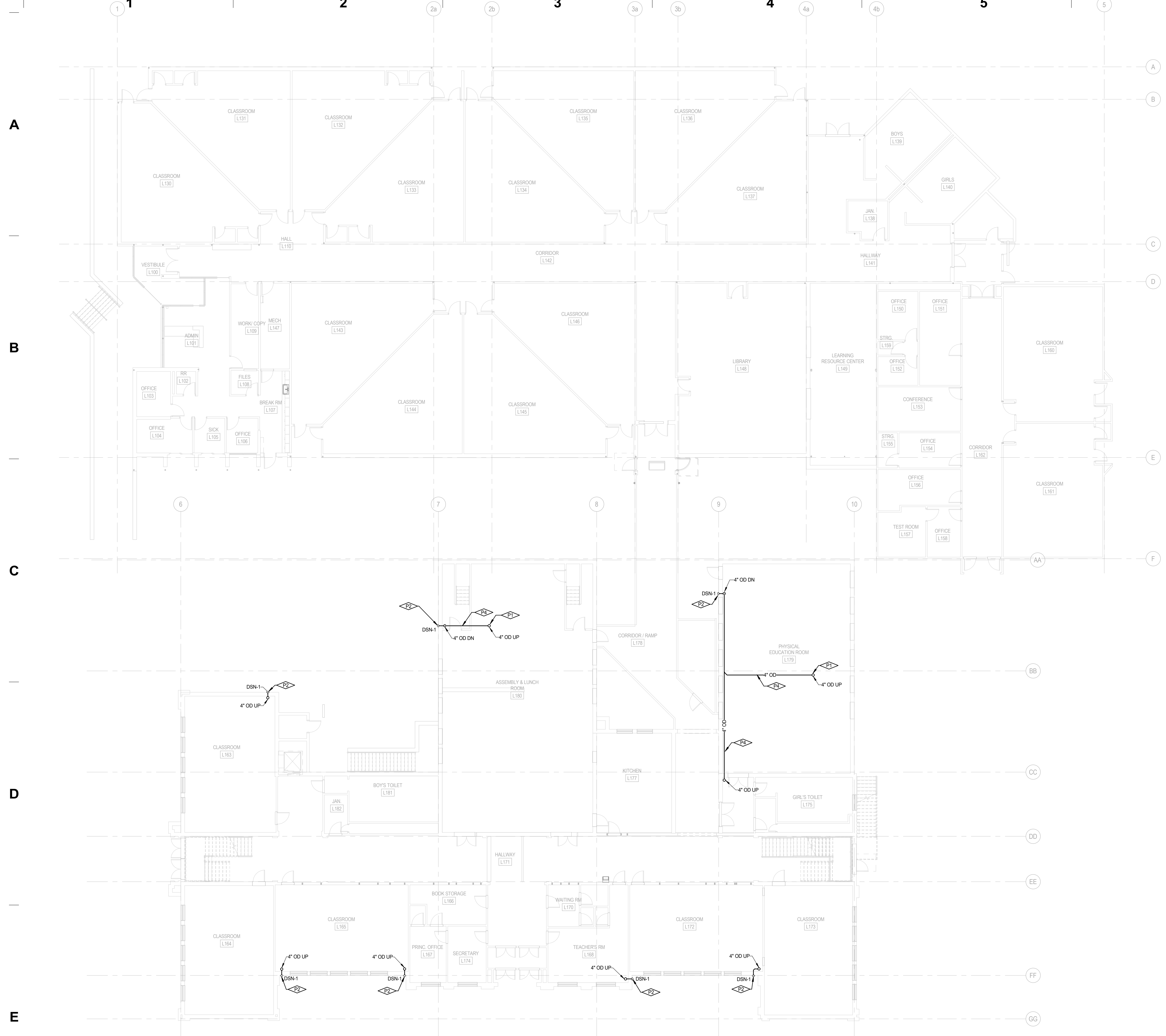


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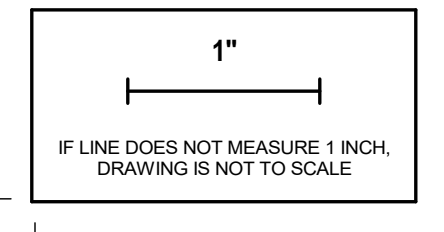
Project No: 23029
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 Checked By: MG
 Date: 02/27/2025

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6 KEYNOTES	
P1	EXTEND NEW OVERFLOW DRAIN PIPING UP TO NEW OVERFLOW DRAIN ABOVE. REFER TO SHEET M2.03
P2	INSTALL NEW DOWNSPOUT NOZZLE INTO EXISTING EXTERIOR WALL DISCHARGE APPROXIMATELY 18" ABOVE FINISHED GRADE. REFER TO ARCHITECTURAL DRAWINGS
P4	KEEP PIPING AS HIGH AS POSSIBLE. FIELD VERIFY LOCATION FOR PIPING.



LEVEL 01 - WASTE & VENT PLAN
SCALE: 1" = 10'-0"



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LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
LEVEL 01 - WASTE & VENT PLAN

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Sheet No: **P2.01**

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KEYNOTES

P1	EXTEND NEW OVERFLOW DRAIN PIPING UP TO NEW OVERFLOW DRAIN ABOVE. REFER TO SHEET M2.05
P3	DROP OVERFLOW DRAIN PIPING DOWN TO THE FIRST FLOOR BELOW.
P4	KEEP PIPING AS HIGH AS POSSIBLE. FIELD VERIFY LOCATION FOR PIPING.

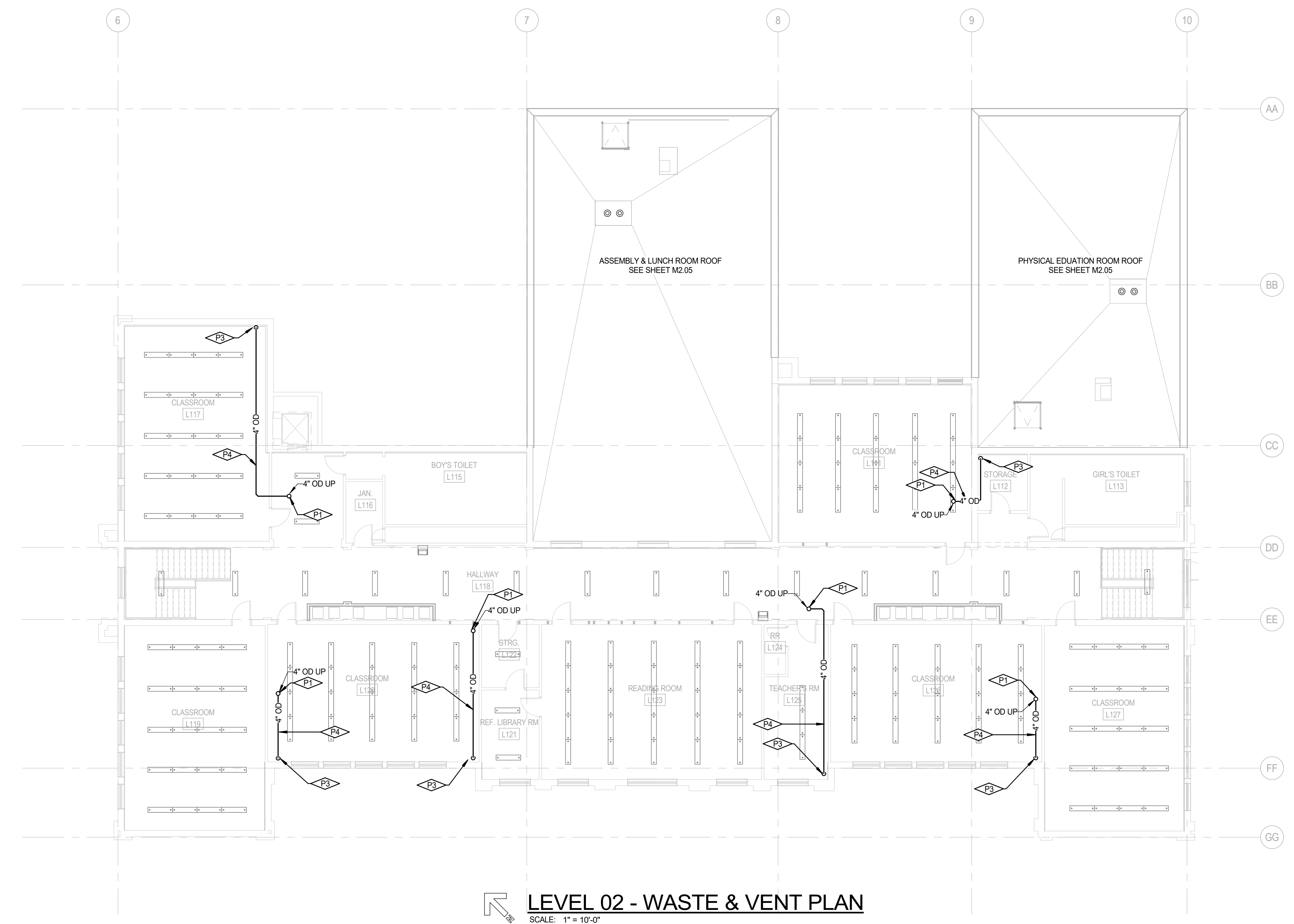
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LEVEL 02 - WASTE & VENT PLAN
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TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
LEVEL 02 - WASTE & VENT PLAN

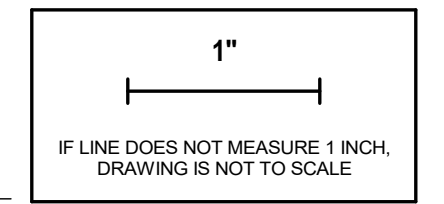
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GENERAL LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		SECTION DESIGNATION			CAP END OF PIPE
		SECTION CUT ON THIS SHEET			PITCH DOWN IN DIRECTION OF ARROW
		VIEW REFERENCE DESIGNATION			PIPE ANCHOR
		VIEW REFERENCE ON THIS SHEET			PIPE ALIGNMENT GUIDE
		EQUIPMENT UNIT IDENTIFICATION			UNION OR FLANGE
		EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)			CONCENTRIC PIPE REDUCER
		DIFFUSER IDENTIFICATION			ECCENTRIC PIPE REDUCER
		DIFFUSER NECK DIAMETER	PRV		PRESSURE REDUCING VALVE
		DIFFUSER CFM	PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		LINEAR DIFFUSER IDENTIFICATION			ISOLATION VALVE (RE: SPEC FOR TYPE)
		LINEAR DIFFUSER NECK DIAMETER			VERTICAL PIPE VALVE
		LINEAR DIFFUSER LENGTH			CHECK VALVE
		LINEAR DIFFUSER CFM	CV		SOLENOID / MOTORIZED VALVE
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH			SOLENOID VALVE
		EQUIPMENT UNIT IDENTIFICATION			HOSE END DRAIN VALVE
		EQUIPMENT UNIT NUMBER			PRESSURE / TEMPERATURE TAP
		RADIATOR ENCLOSURE LENGTH (OR W-W/WALL-TO-WALL)	PIT		STRAINER
		KEY NOTE REFERENCE			STRAINER W/ BLOWDOWN
		KITCHENOWNER/MEDICAL EQUIPMENT REFERENCE			BRAIDED FLEXIBLE PIPE CONNECTOR
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		POINT OF CONNECTION, NEW TO EXISTING			THERMOMETER
		POINT OF DISCONNECTION, DEMO			PRESSURE GAUGE
		DIRECTION OF FLOW IN PIPE			SIGHT GLASS
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED			CEILING ACCESS PANEL
(E)		EXISTING	C.A.P.		PLUMP
(N)		NEW	TB		THRUST BLOCK
(R)		RELOCATED	MAV		MANUAL AIR VENT
(F)		FUTURE	AAV		AUTOMATIC AIR VENT
DIA	\varnothing	DIAMETER			
WAD		WALL ACCESS DOOR			
NIC		NOT IN CONTRACT			
AFF		ABOVE FINISHED FLOOR			
GC		GENERAL CONTRACTOR			
MC		MECHANICAL CONTRACTOR			
EC		ELECTRICAL CONTRACTOR			
UNO		UNLESS NOTED OTHERWISE			
C		COMMON			
NC		NORMALLY CLOSED			
NO		NORMALLY OPEN			

FIRE PROTECTION LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
F		FIRE SERVICE PIPING			NEW SPRINKLER HEAD
O.S.&V.		O.S.&V. GATE VALVE W/ TAMPER SWITCH			EXISTING SPRINKLER HEAD
FS		FLOW SWITCH			RELOCATED SPRINKLER HEAD
PIV		POST INDICATOR VALVE			SIDEWALL SPRINKLER HEAD
FDC		FIRE DEPARTMENT CONNECTION			DRY SPRINKLER HEAD (SHAFT LENGTH)
			FHC		FIRE HOSE CABINET
			FVC		FIRE VALVE CABINET
			AS		AUTOMATIC FIRE SPRINKLER

FIRE PROTECTION NOTES:

- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
- THE FIRE PROTECTION WORK INVOLVES ENGINEERING AND DESIGN BY THE CONTRACTOR TO DETERMINE THE EXTENT OF NEW WORK AND THE MODIFICATION AND EXTENSION OF EXISTING SYSTEMS TO PROVIDE FULL COVERAGE TO THE PROJECT AREA SHOWN ON THESE AND THE ARCHITECTURAL PLANS.
- THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC. IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC., REQUIRED FOR A COMPLETE WORKING SYSTEM.
- ALL FIRE PROTECTION SYSTEMS INSTALLED SHALL BE IN ACCORDANCE WITH NFPA-13, 14, 20, ETC. AND LOCAL BUILDING CODES AND ORDINANCES.
- FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW FIRE PROTECTION EQUIPMENT AND PIPING WITH ALL OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND SYSTEM INSTALLATION, SO AS NOT TO INTERFERE WITH THE ROUTING OF NEW DUCTWORK, PLUMBING PIPING, ETC.
- PROVIDE ALL FITTINGS, RISER NIPPLES, ARM-OVERS, HANGERS, ETC. TO MAINTAIN CONFORMANCE WITH APPLICABLE STANDARDS AND TO POSITION THE SPRINKLERS IN THE PROPER LOCATIONS.
- SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE STOPPING MATERIALS AS REQUIRED.
- FOR REMODEL AREAS NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLERS.
- PROVIDE WORKING DRAWINGS AND HYDRAULICALLY CALCULATE THIS FIRE SPRINKLER SYSTEM PER NFPA-13 WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE FIELD COORDINATION OF PIPING AND SPRINKLER INSTALLATIONS WITH DUCTWORK, LIGHTS, SMOKE DETECTORS, DIFFUSERS, ETC.

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
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Sheet:
FIRE PROTECTION LEGENDS & NOTES

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Project No: 23029
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 Checked By: MG
 Date: 02/27/2025

Sheet No:
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KEYNOTES

F1 REVISE EXISTING SPRINKLER SYSTEM LAYOUT TO MATCH NEW WALLS, CEILING LAYOUT, ETC. IN AREA HATCHED. MATCH EXISTING HEADS. REFER TO ARCHITECTURAL PLANS FOR ACTUAL AREAS REMODELED.

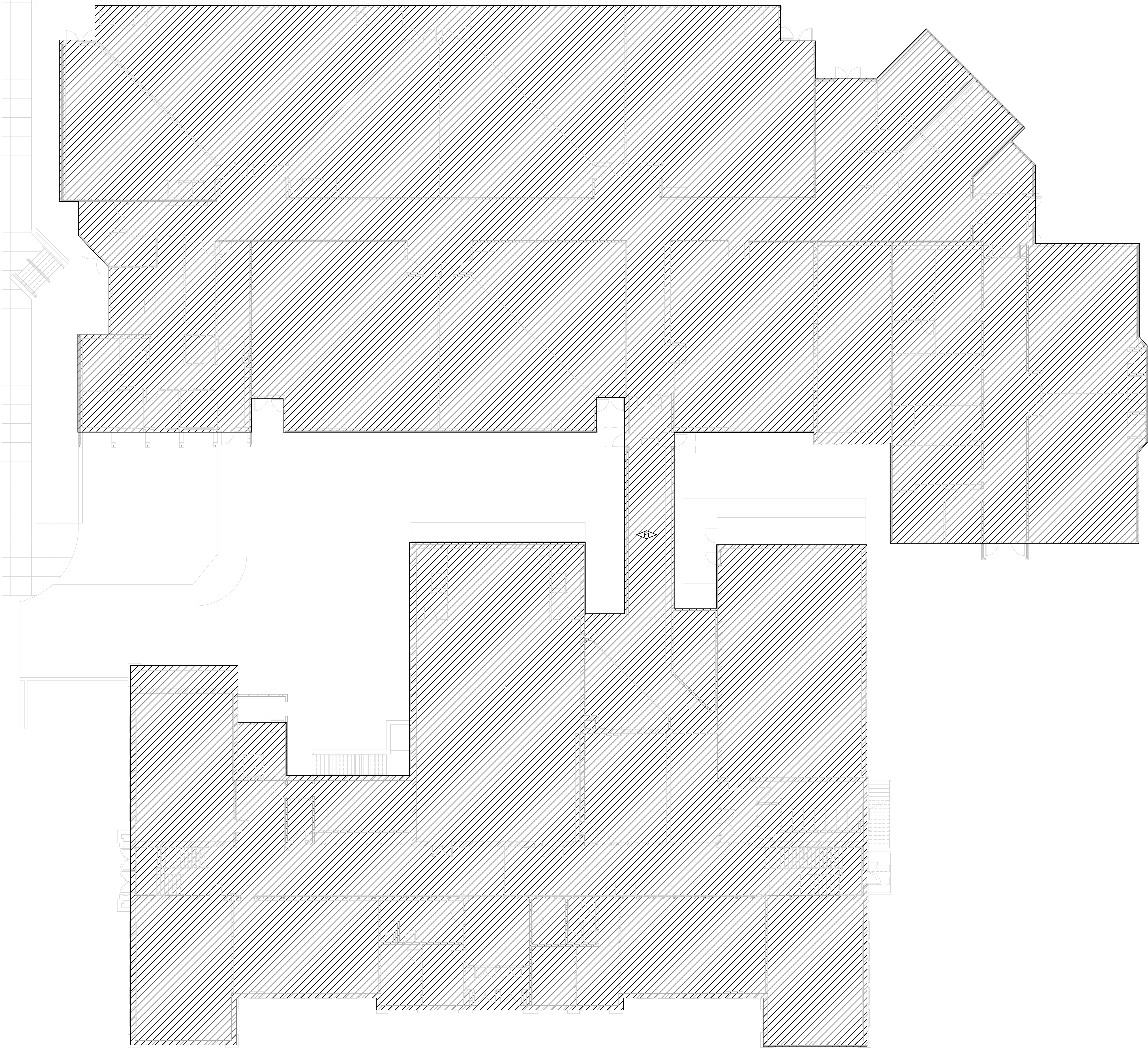
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Project:
 TFS DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
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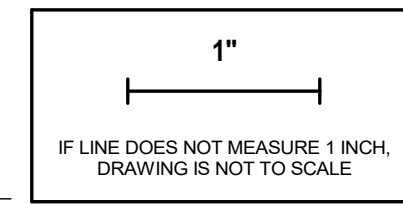
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 LEVEL 01 - FIRE PROTECTION
 PLAN

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LEVEL 1 FIRE PROTECTION PLAN
 SCALE: 1" = 10'-0"



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KEYNOTES

F1 REVISE EXISTING SPRINKLER SYSTEM LAYOUT TO MATCH NEW WALLS, CEILING LAYOUT, ETC. IN AREA HATCHED. MATCH EXISTING HEADS. REFER TO ARCHITECTURAL PLANS FOR ACTUAL AREAS REMODELED.

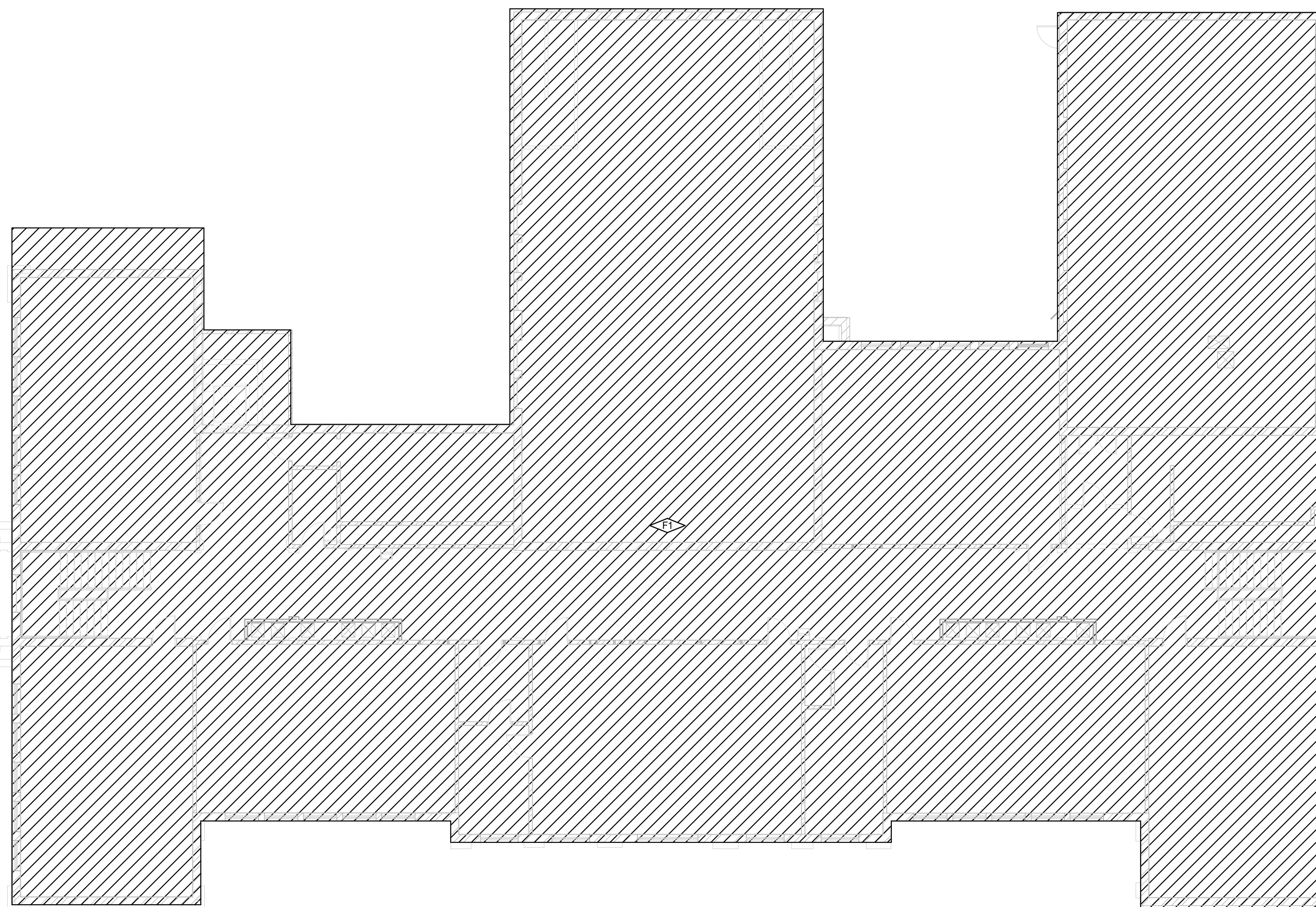
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LEVEL 2 FIRE PROTECTION PLAN
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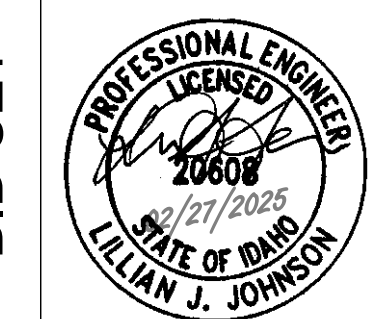
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TFSD DISTRICT WIDE HVAC REPLACEMENT

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Sheet:
LEVEL 02 - FIRE PROTECTION PLAN

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1"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE.

POWER LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	SINGLE RECEPTACLE	⊕	ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED
⊕	DUPLEX RECEPTACLE, WALL, CEILING, FLOOR MOUNTED	⊕	PLUG MOLD (MULTI-OUTLET ASSEMBLY)
⊕	DOUBLE DUPLEX RECEPTACLE, WALL, CEILING, FLOOR MOUNTED	⊕	WIREMOLD (SURFACE RACEWAY)
⊕	SPECIAL RECEPTACLE, WALL, CEILING, FLOOR MOUNTED	⊕	CONDUIT CONCEALED
⊕	JUNCTION BOX, WALL, CEILING, FLOOR MOUNTED	⊕	CONDUIT UNDERGROUND OR CONCEALED IN FLOOR AS ALLOWED PER SPECIFICATIONS
⊕	DUPLEX RECEPTACLE, HALF CONTROLLED	⊕	CONDUIT TURNING DOWN
⊕	DUPLEX RECEPTACLE, FULL CONTROLLED	⊕	CONDUIT TURNING UP
⊕	DOUBLE DUPLEX RECEPTACLE, HALF CONTROLLED	⊕	CONDUIT CAPPED
⊕	DOUBLE DUPLEX RECEPTACLE, FULL CONTROLLED	⊕	GROUND BAR
⊕	SHADING INDICATES EMERGENCY SYSTEM TEXT INDICATES PANEL AND CIRCUIT DESIGNATION	⊕	MAIN SWITCHBOARD/DISTRIBUTION CENTER
⊕	DISCONNECT SWITCH (NON-FUSED)	⊕	TRANSFORMER
⊕	DISCONNECT SWITCH (FUSED)	⊕	CURRENT TRANSFORMER
⊕	VARIABLE SPEED DRIVE WITH DISCONNECT	⊕	THERMISTAT
⊕	ENCLOSED CIRCUIT BREAKER	⊕	GENERATOR ANNUNCIATOR PANEL
⊕	TOGGLE SWITCH	⊕	UTILITY METER
		⊕	POWER POLE

CONTROLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S ₁	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S _{VS}	VARIABLE SPEEDSPEED CONTROLLER SWITCH
S ₂	TWO POLE SWITCH	S _{EP}	EXPLOSION PROOF SWITCH
S ₃	THREE-WAY SWITCH	S _{TO}	THERMAL OVERLOAD SWITCH
S ₄	FOUR-WAY SWITCH	S _{MC}	MOMENTARY CONTACT SWITCH
S _k	KEY OPERATED SWITCH	S _{CS}	COMBINATION SWITCH AND DUPLEX RECEPTACLE
S _M	MANUAL SWITCH, HORSEPOWER RATE	S _{PH}	PHOTOCELL
S _D	DIMMER SWITCH	S _{PB}	PUSH BUTTON
S _{PL}	SWITCH WITH PILOT LIGHT (PILOT LIGHT IS ON WHEN SWITCH IS ON)	S _{TC}	TIME CLOCK
S _{PL}	SWITCH WITH PILOT LIGHT LOCATOR (CONTINUOUSLY LIGHTED HANDLE)	S _{IS}	OCCUPANCY SENSOR - WALL MOUNTED (IR-INFRARED, US-ULTRASONIC, DT-DUAL TECHNOLOGY)
S _{LV}	LOW VOLTAGE SWITCH		

FIRE ALARM SYSTEM LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	MS	MANUAL PULL STATION
MAC	FIRE ALARM (NAC) POWER SUPPLY	AM	ADDRESSABLE INPUT MODULE
LCD	FIRE ALARM REMOTE ANNUNCIATOR PANEL (LCD)	AM	ADDRESSABLE OUTPUT MODULE
MAP	FIRE ALARM ANNUNCIATOR PANEL (LED)	AS	FIRE ALARM STROBE (60- CANDELA RATING 15, 30, 75, 95, 110, 177)
TRC	FIRE ALARM TRANSDUCER PANEL	AS	MASS NOTIFICATION STROBE (60- CANDELA RATING 15, 30, 75, 95, 110, 177)
RASB	RESCUE ASSISTANCE SYSTEM BASE UNIT	AS	FIRE ALARM HORN/VISIBLE (C = CEILING MOUNT)
RAM	AREA OF REFUGES COMMUNICATION MASTER UNIT	AS	FIRE ALARM SPEAKER/VISIBLE (C = CEILING MOUNT)
RRM	AREA OF REFUGES COMMUNICATION REMOTE UNIT	AS	MASS NOTIFICATION SPEAKER/VISIBLE (C = CEILING MOUNT)
MAP	GRAPHIC ZONE MAP	AS	FIRE ALARM HORN (C = CEILING MOUNT)
TRC	FIRE FIGHTER SMOKE CONTROL PANEL	AS	FIRE ALARM SPEAKER (C = CEILING MOUNT)
H	SMOKE DETECTOR (P-IR/PHOTOELECTRIC, SB-WITH SOUNDER BASE, BIRHEAM RECEIVERS, BIRHEAM TRANSMITTER)	AS	MASS NOTIFICATION SPEAKER (C = CEILING MOUNT)
H	SMOKE ALARM (120 VAC SINGLE STATION)	AS	RESCUE ASSISTANCE TELEPHONE STATION
H	HEAT DETECTOR (F = FIXED TEMPERATURE, R = RATE OF RISE)	AS	FIRE FIGHTER TELEPHONE (J = JACK, H = HANDSET)
H	DUCT SMOKE DETECTOR S-SUPPLY, R-RETURN	H	MAGNETIC DOOR HOLD
H	DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST	H	TAMPER SWITCH
H	REMOTE INDICATOR LIGHT	H	FLOW DETECTOR SWITCH
H	FIRE/SMOKE DAMPER	H	PRESSURE SWITCH
H	SMOKE DAMPER	H	SURGE SUPPRESSOR
H	CARBON MONOXIDE ALARM/DETECTOR	H	FLAME DETECTOR (UV-ULTRAVIOLET, IR-INFRARED)

REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	KEY NOTE REFERENCE	⊕	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
⊕	TYPICAL CIRCUIT NUMBER	⊕	EXISTING TO REMAIN
⊕	TYPICAL LUMINAIRE TYPE	⊕	EXISTING TO BE REMOVED
⊕	TYPICAL ROOM REFERENCE (TOP + RM #, BOTTOM + FLR)	⊕	EXISTING TO BE RELOCATED
⊕	MECHANICAL EQUIPMENT REFERENCE	⊕	EXISTING TO REMAIN - REPLACE DEVICE
⊕	LIGHTING CONTROL / EQUIPMENT REFERENCE	⊕	EXISTING TO BE REMOVED AND REPLACED
⊕	ELECTRICAL ACCESSORIES REFERENCE		

ABBREVIATIONS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, 1/4" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASSD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	OC	ON CENTER
CB	CIRCUIT BREAKER	OCFI	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFDI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	PB	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EWG	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UN	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XFRM	TRANSFORMER

ONE-LINE DIAGRAM LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	DISCONNECT SWITCH	⊕	PANELBOARD "A"
⊕	DISCONNECT SWITCH, FUSED	⊕	EM-ENERGY METER, PM-POWER METER, CM-CIRCUIT MONITOR
⊕	CIRCUIT BREAKER	⊕	VOLTMETER TEST SWITCH
⊕	FUSE	⊕	AMMETER TEST SWITCH
⊕	GROUND	⊕	VOLTMETER
⊕	STEP DOWN TRANSFORMER, ## INDICATES KVA	⊕	AMMETER
⊕	KRATED STEP DOWN TRANSFORMER, ## INDICATES KVA, # INDICATES K RATING	⊕	SEE FEEDER/MECH/TRANSFORMER SCHEDULES FOR FEEDER SIZE
⊕	CURRENT TRANSFORMER	⊕	ENGINE GENERATOR
⊕	POTENTIAL TRANSFORMER	⊕	CONTACTOR/RELAY/CAPACITOR (AS NOTED)
⊕	SERVICE ENTRANCE TRANSFORMER	⊕	TRANSFER SWITCH - ATS-AUTOMATIC, MTS-MANUAL
⊕	METER	⊕	GROUND FAULT INTERRUPTER
⊕	EQUIPMENT ENCLOSURE	⊕	SURGE PROTECTIVE DEVICE
⊕	SERVICE WEATHERHEAD	⊕	SHUNT TRIP
⊕	SHORT CIRCUIT CURRENT AVAILABLE	⊕	TERMINATIONS LB-LOAD BREAK, NLB-NO LOAD BREAK
⊕	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	⊕	DRAW-OUT DEVICE
⊕	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	⊕	PLUG-IN DEVICE
⊕	MECHANICAL INTERLOCK	⊕	ELECTRICALLY OPERATED

POWER PLAN NOTES:

- MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
- COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR TO RUGH-IN.
- PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3" MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
- NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, SHOWER ROOMS, LOCKER ROOMS, GARAGES, SERVICE BAYS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, AT ELECTRIC WATER COOLERS, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210 AND NEC SECTION 422.5. PROVIDE GFCI RECEPTACLES IN ELEVATOR PITTS, HOISTWAYS, MACHINE ROOMS, CONTROL SPACES, AND CONTROL ROOMS PER NEC SECTION 620.85. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED. WHERE GFCI DEVICES ARE REQUIRED AND/OR SHOWN BUT ARE NOT ACCESSIBLE WHEN EQUIPMENT IS INSTALLED, I.E. VENDING MACHINES, ETC., PROVIDE BLANK FACE GFCI DEVICE AND COVERPLATE AHEAD OF INACCESSIBLE RECEPTACLES. MOUNT ADJACENT TO EQUIPMENT AT SWITCH HEIGHT UNLESS OTHERWISE SHOWN.
- 120V POWER HAS BEEN SHOWN ON DRAWINGS TO J-BOXES IDENTIFIED FOR BAS CONTROLS, DAMPER ACTUATORS AND OTHER MISCELLANEOUS POWER TO OPERATE MECHANICAL CONTROLS AND DEVICES. COORDINATE ALL 120V REQUIREMENTS WITH MECHANICAL CONTROLS AND EQUIPMENT AND MAKE ALL CONNECTIONS REQUIRED TO THESE OR OTHER 120V MECHANICAL CIRCUITS AS REQUIRED. DO NOT CONNECT THESE LOADS TO OTHER CIRCUITS WITH LOADS OTHER THAN THOSE IDENTIFIED HERE.
- ALL OUTDOOR AND ROOFTOP RECEPTACLES SHALL BE OUTDOOR RATED AND SHALL HAVE A WEATHERPROOF IN USE COVER.

GENERAL NOTES:

- FOR REMODELING, WORK INCLUDED IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR TO ORIGINAL CONDITION. DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
- INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
- DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
- COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO RUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
- EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
- PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

DEMOLITION NOTES:

- UNLESS NOTED OTHERWISE, BOLD ITEMS INDICATE EQUIPMENT, DEVICES, ETC. TO BE REMOVED. SEE SPECIFICATION SECTION 260500 FOR DEMOLITION DETAILED REQUIREMENTS.
- DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. CONTRACTOR SHALL VISIT SITE TO DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENTS PRIOR TO QUOTATION. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS. REWORK EXISTING TERMINATIONS, CONNECTIONS, CONDUIT, WIRING, ETC. TO ACCEPT NEW WORK. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND DEVICES TO REMAIN OR REMODEL/DEMOLITION DETAILED REQUIREMENTS TO BE RELOCATED PRIOR TO COMMENCEMENT OF ANY DEMO WORK. CONFIRM EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL WIRING AND EXPOSED CONDUIT AND CONDUIT SUPPORTS BACK TO POINT OF ORIGIN OR NEXT DEVICE TO REMAIN. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER, UNLESS NOTED OTHERWISE, AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- WHERE EXISTING CONDUITS ARE SHOWN TO BE REMOVED AND HAVE BEEN ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILING, THEY SHALL BE CUT BACK FLUSH WITH CONCRETE, FILL WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
- REUSE EXISTING CONDUIT WHERE CURRENT NEC AND LOCAL CODE REQUIREMENTS ARE MAINTAINED. PROVIDE NEW CONDUIT AND WIRE FOR NEW INSTALLATIONS AND EXTENSION OF EXISTING INSTALLATIONS. REUSE EXISTING CONDUIT IN PLACE, DO NOT REINSTALL EXISTING CONDUIT. PROVIDE LABELING PER SPECIFICATIONS FOR REUSED CONDUIT.
- WHERE EXISTING DEVICES, SWITCHES, MOTOR CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE, UNLESS NOTED OTHERWISE.

ONE-LINE DIAGRAM NOTES:

- PANELBOARDS INDICATED ON ONE-LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULE(S).
- PROVIDE CONTINUOUS #10 AWG INSULATED COPPER CONDUCTOR FOR BONDING THE EQUIPMENT GROUNDING TERMINAL BUSSES OF THE NORMAL AND ESSENTIAL BRANCH CIRCUIT PANELBOARDS SERVING THE SAME INDIVIDUAL PATIENT WING.
- EXISTING ONE-LINE DIAGRAM TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. EXISTING INFORMATION SHOWN OTHER THAN LOCATIONS IDENTIFIED BY NEW WORK HAS NOT BEEN VERIFIED.
- COORDINATE MOUNTING, CONDUIT, WIRE, AND OCPD SIZE FOR SPD'S WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FIRE ALARM PLAN NOTES:

- FIRE ALARM EQUIPMENT AND DEVICES SHOWN ON THESE DRAWING INDICATE THE INTENT, PERFORMANCE, AND SCOPE OF THE SYSTEM. THE FULL DESIGN OF THE FIRE ALARM SYSTEM SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMITTAL FOR APPROVAL BY THE LOCAL FIRE DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL ARRANGE TO HAVE THE FIRE ALARM SYSTEM SUBMITTAL SEALED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER WHO WILL ASSUME THE DUTY OF ENGINEER OF RECORD FOR THE FIRE ALARM SYSTEM DESIGN. THE ELECTRICAL ENGINEER OF RECORD AT CATOR, RUMA & ASSOCIATES, CO. WILL NOT BE RESPONSIBLE FOR SEALING AND SIGNING THE FIRE ALARM SYSTEM SHOP DRAWING SUBMITTAL.
- WALL OR CEILING MOUNT FIRE ALARM REMOTE INDICATORS ABOVE THE DOOR OF ASSOCIATED ROOMS AS SHOWN.
- LOCATE SMOKE DETECTORS PER NFPA 72 AND MANUFACTURER'S REQUIREMENTS. THE LOCATIONS OF SMOKE DETECTORS ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. DETECTORS SHALL NOT BE PLACED WITHIN 3'-0" OF ANY CEILING MOUNTED HVAC SUPPLY AIR DEVICE.
- PROVIDE GRAPHIC ZONE MAP/ANNUNCIATOR(S) AND FIRE ALARM CONTROL UNITS AS SHOWN AND REQUIRED. SUBMIT SHOP DRAWINGS AND LOCATIONS TO ENGINEER AND BUILDING/FIRE DEPARTMENT(S) FOR REVIEW PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, UNLESS NOTED OTHERWISE. PROVIDE RE-PROGRAMMING OF SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. REVISE EXISTING ANNUNCIATOR(S) AND GRAPHIC ZONE MAP(S) TO REFLECT PROJECT FIRE ALARM AND ARCHITECTURAL MODIFICATIONS. UPDATE GRAPHIC ZONE MAPS IN BOTH THE FIRE COMMAND CENTER AND ON THIS FLOOR AS REQUIRED. SUBMIT TO ENGINEER AND BUILDING/FIRE DEPARTMENTS FOR REVIEW PRIOR TO INSTALLATION.

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHL ST N
TWIN FALLS, ID 83301

Sheet:
ELECTRICAL LEGENDS & NOTES

Revisions: △

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No: **E0.01**

BID SET

LUMINAIRE SCHEDULE

Table with columns: TYPE, DESCRIPTION, COLOR, LUMENS, TYPE, DIM LEVEL, VOLTAGE, APPARENT LOAD, MANUFACTURER, CATALOG SERIES, FINISH, MOUNTING, REMARKS. Includes common notes and specific remarks.

LIGHTING CONTROL MATRIX

Table with columns: TYPE, SPACE, ON, OFF, CONTROL, TECH, MOUNT, DELAY (MIN.), DAYLIGHT SENSOR TARGET LEVEL (FC), DAYLIGHT SENSOR MEASURED HEIGHT (IN.), RPT CONTROL, INTERFACE, NETWORK, EMERGENCY, REMARKS. Includes common notes and specific remarks.

ELECTRICAL ACCESSORIES SCHEDULE

Table with columns: KEY, ITEM, DESCRIPTION, MANUFACTURER, CATALOG SERIES, FINISH, REMARKS. Includes common notes.

MECHANICAL EQUIPMENT SCHEDULE

Table with columns: KEY, #, ITEM, HP, FLA, LOAD, EQ LOAD (VA), VOLTAGE, FEEDERS, WIRE, GROUND, CONDUIT, BREAKER, DISCONNECT, FUSE, REMARKS. Includes common notes and specific remarks.



Project Information: 2018 IECC, TFSD Lincoln, Alteration. Construction Site: 238 Buhl St N, Twin Falls, Idaho 83301. Owner/Agent: Hummel Architects, 205 N 10th Street, Suite 300, Boise, Idaho 83702. Designer/Contractor: Kyle Olson, Cator Ruma, 420 S Orchard St, Boise, Idaho 83705, 208.343.3663. KOlson@catorruma.com

Table with columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, Lamps / Fixture, # of Fixture (C X D), Watt. Includes summary: Total Proposed Watts = 6740.

Interior Lighting PASSES Interior Lighting Compliance Statement. Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application...

John Schindele - Electrical Designer. Signature: [Signature]. Date: 02/26/2025.

Table: Allowed Interior Lighting Power. Columns: Area Category, Floor Area (ft2), Allowed Watts / ft2, Allowed Watts. Includes total allowed watts: 17823.

Table: Proposed Interior Lighting Power. Columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, Lamps / Fixture, # of Fixture (C X D), Watt. Includes total proposed watts: 6740.

Project Title: TFSD Lincoln. Report date: 02/26/25. Data filename: Page 1 of 6.

Project Title: TFSD Lincoln. Report date: 02/26/25. Data filename: Page 2 of 6.

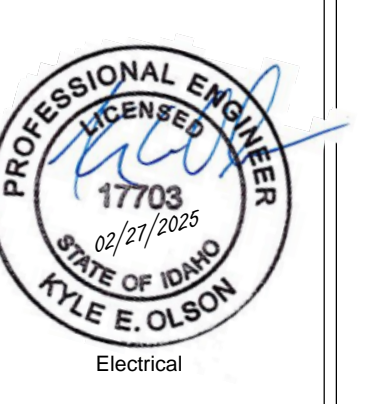


Project: TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL, 238 BUHL ST N, TWIN FALLS, ID 83301

Sheet: ELECTRICAL SCHEDULES

BID SET



Revisions: [Symbol]. Project No: 23028. Drawn By: JS. Checked By: KO. Date: 02/27/2025. Sheet No: E0.02

FEEDER SCHEDULE

NOTE: CONDUCTORS WITH 'AL' DESIGNATION ARE ALUMINUM TYPE XHHW-2 COMPACT 600V.

KEY	CONDUCTORS	C"
60.3G	3 # 4, 1 # 10 G 1	
100.4G	4 # 1, 1 # 6 G 1 1/2	
200.4G	4 # 30, 1 # 6 G 2 1/2	
400.4G	2 [4 # 30, 1 # 3 G 2 1/2]	
800.3G	3 [3 # 300, 1 # 10 G 3]	
2000.4	6 [4 # 500, 1 # 10 G 3 1/2]	
2000.4G	6 [4 # 500, 1 # 250 G 3 1/2]	

LINCOLN LOAD SUMMARY - 1200A SWBD

MAIN SWITCHBOARD RATING	2000 A
EXISTING PEAK DEMAND	126 KW
EXISTING PEAK DEMAND	300 A
NEC DEMAND FACTOR	x 125%
NEC CORRECTED PEAK DEMAND LOAD	438 A
ASSUMED DEMAND LOAD REMOVED	218 A
(LOAD REMOVED IS MECHANICAL EQUIPMENT ASSUMED TO BE HALF THE EXISTING DEMAND)	
NEW LOAD ADDED	1233 A
NEW TOTAL SWBD LOAD	1462 A

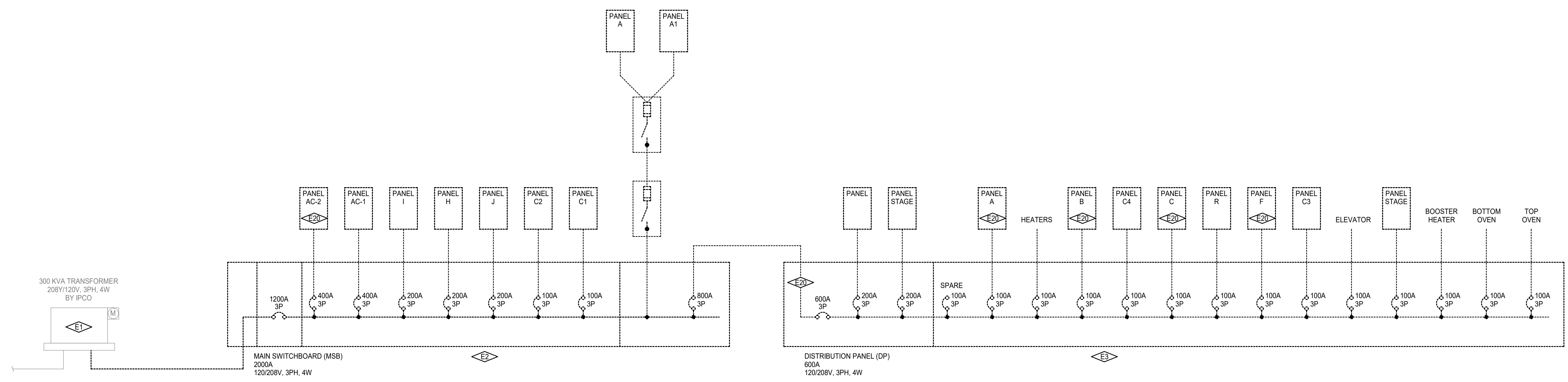
FAULT CURRENT CALCULATIONS

UTILIZES THE BUSMAN CALCULATION METHOD AND TABLES

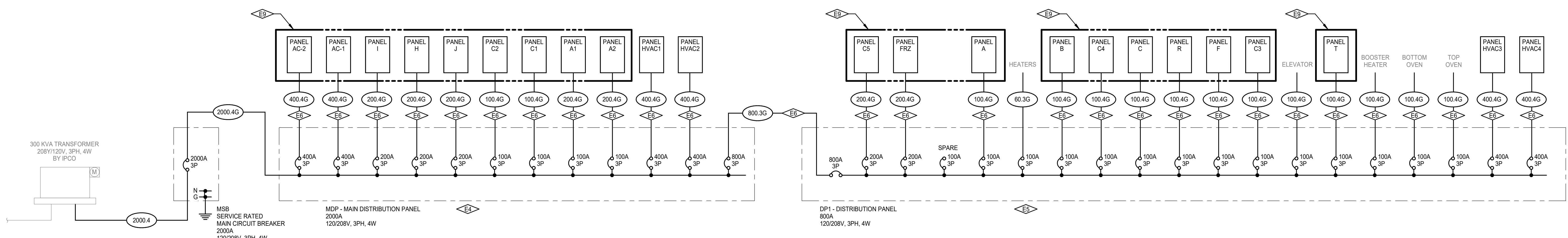
CONTRACTOR IS RESPONSIBLE FOR ACTUAL FEEDER DESIGN AND FOR CONSIDERING FEEDER AND LOAD CAPACITY

Description	Voltage	Length (FT)	# of Bus(es)	Conductor "C" value	Available Fault Current (SC)
TO MSB	208	3	120	6	28706
TO AC-2	208	3	185	2	16483
TO AC-1	208	3	25	2	16483
TO I	208	3	180	1	15483
TO H	208	3	17	1	15483
TO J	208	3	26	1	15483
TO C2	208	3	295	1	8924
TO C1	208	3	32	1	8924
TO A1	208	3	211	1	16483
TO A2	208	3	209	1	16483
TO HVAC1	208	3	128	2	16483
TO RTU-1	208	3	133	1	2425
TO RTU-2	208	3	91	1	2425
TO RTU-3	208	3	133	1	2425
TO RTU-4	208	3	81	1	2425
TO RTU-5	208	3	122	1	2425
TO RTU-6	208	3	53	1	2425
TO RTU-7	208	3	108	1	2425
TO RTU-8	208	3	83	1	1557
TO RTU-9	208	3	101	1	1557
TO RTU-10	208	3	31	1	1557
TO HVAC2	208	3	132	2	16483
TO RTU-11	208	3	39	1	1557
TO RTU-12	208	3	35	1	1557
TO RTU-13	208	3	35	1	1557
TO RTU-14	208	3	42	1	1557
TO RTU-15	208	3	61	1	1557
TO RTU-16	208	3	112	1	2425
TO RTU-17	208	3	120	1	2425
TO RTU-18	208	3	79	1	2425
TO RTU-19	208	3	128	1	3806
FR DPH	208	3	187	3	18755
TO C5	208	3	18	1	16483
TO FRZ	208	3	114	1	16483
TO A	208	3	66	1	8924
TO B	208	3	74	1	8924
TO C4	208	3	33	1	8924
TO C	208	3	35	1	8924
TO R	208	3	35	1	8924
TO F	208	3	114	1	8924
TO C3	208	3	26	1	8924
TO T	208	3	82	1	8924
TO HVAC3	208	3	108	2	16483
TO RTU-20	208	3	68	1	2425
TO RTU-21	208	3	57	1	2425
TO RTU-22	208	3	54	1	2425
TO RTU-23	208	3	32	1	2425
TO RTU-24	208	3	46	1	2425
TO RTU-25	208	3	42	1	2425
TO RTU-26	208	3	53	1	2425
TO RTU-27	208	3	73	1	3806
TO RTU-28	208	3	101	1	3806
TO HVAC4	208	3	106	2	16483
TO RTU-29	208	3	137	1	3806
TO RTU-30	208	3	78	1	2425
TO RTU-31	208	3	138	1	3806
TO RTU-32	208	3	140	1	3806
TO RTU-33	208	3	71	1	2425
TO RTU-34	208	3	140	1	3806
TO RTU-35	208	3	162	1	5906

- ### KEYNOTES
- E1 EXISTING UTILITY TRANSFORMER TO BE REMOVED AND REPLACED IN PLACE. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.
 - E2 SERVICE ENTRANCE SWITCHBOARD TO BE REMOVED AND REPLACED IN PLACE. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.
 - E3 EXISTING DISTRIBUTION BOARD TO BE REMOVED AND REPLACED. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.
 - E4 INSTALL NEW SERVICE ENTRANCE SWITCHBOARD AS NOTED IN PLANS.
 - E5 INSTALL NEW DISTRIBUTION BOARD AS NOTED IN PLANS.
 - E6 PROVIDE AND INSTALL NEW FEEDER. ROUTE ABOVE CEILING WHERE POSSIBLE. WHERE NOT POSSIBLE, ROUTE EXPOSED HIGH IN CEILING CAVITY AND ALONG WALLS.
 - E9 PROVIDE BID ALT FOR REPLACING OF ALL EXISTING PANELS WITH NEW.
 - E20 PROVIDE 3-PHASE DIGITAL RECORDING METER AT LOCATION INDICATED FOR A PERIOD OF 30 DAYS PRIOR TO START OF DEMOLITION OR CONSTRUCTION TO VERIFY EXISTING LOAD. METER SHALL RECORD VOLTAGE, AMPERAGE, KVA, AND POWER FACTOR FOR EACH PHASE AND SUM OF THE PHASES. THE METER SHALL CONTINUALLY AVERAGE THE POWER DEMAND OVER MAXIMUM 15 MINUTE INTERVALS AS REQUIRED BY NEC 220.87. COMPLETE A METERING SUMMARY REPORT AND DELIVER RESULTS TO ENGINEER AFTER 7 DAYS AND AFTER 30 DAYS. VERIFY EXISTING LOADS AT AND DOWNSTREAM OF THE METERING LOCATION AND PROVIDE LIST TO ENGINEER OF WHAT LOADS ARE NOT ON DURING THE 30 DAY METERING AND THE REASON WHY. ORGANIZE LIST BY EQUIPMENT NAME. IF ANY LOADS HAVE BEEN REMOVED OR PERMANENTLY ABANDONED, TURN CIRCUIT BREAKER OFF AND RELABEL AS SPARE.



ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
SCALE: NONE



ELECTRICAL ONE-LINE DIAGRAM - NEW
SCALE: NONE

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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 DUHL ST N
TWIN FALLS, ID 83301

Sheet: ELECTRICAL ONE-LINE DIAGRAM

Revisions:

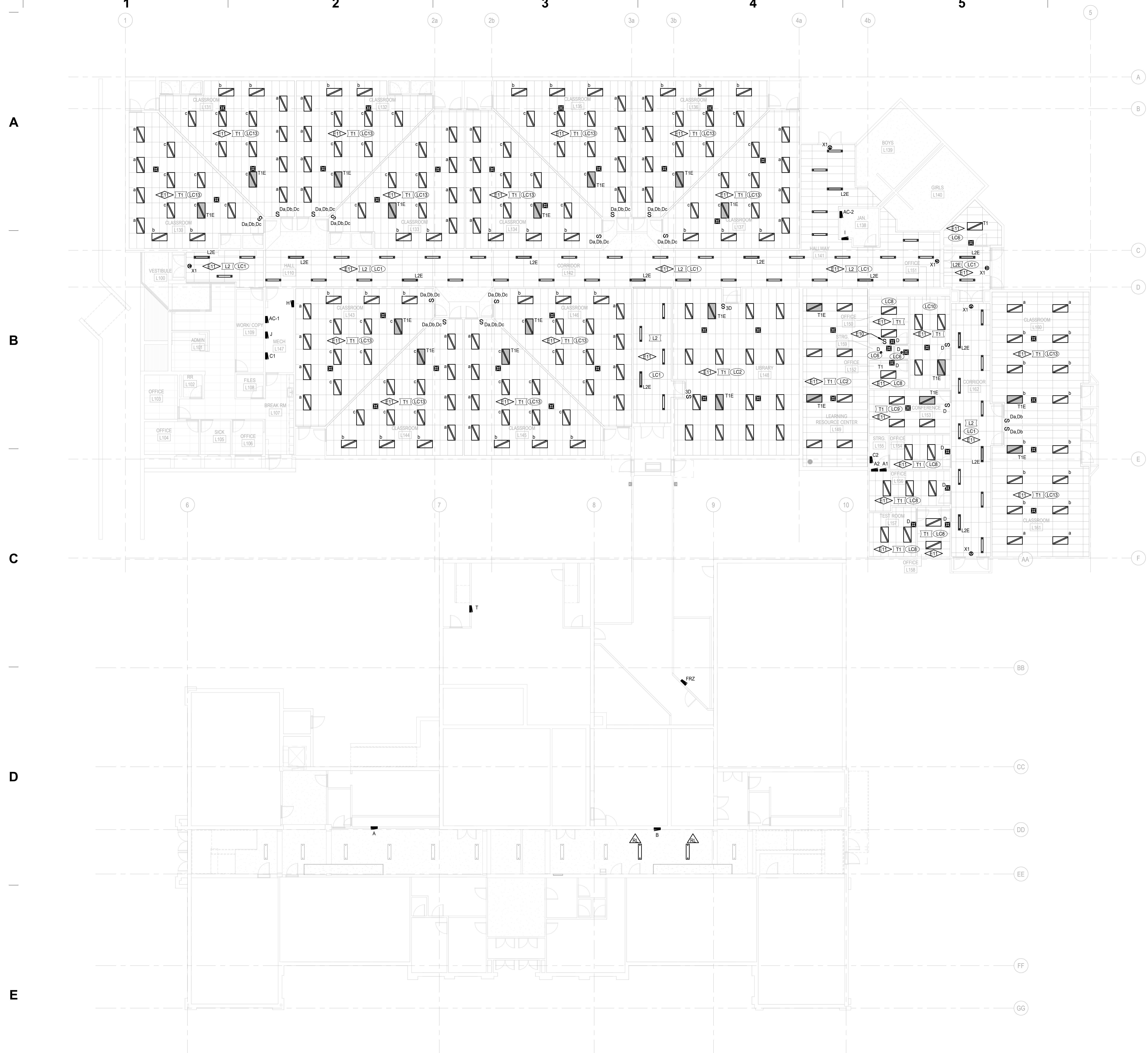
PROFESSIONAL ENGINEER
17703
02/27/2025
KYLE E. OLSON
Electrical

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No: **E0.11**

KEYNOTES	
E10	TIE LIGHTING INTO EXISTING BUILDING LIGHTING CONTROLS. INCORPORATE WALL BOX DIMMER FOR FINAL OUTPUT.
E11	CONNECT NEW LUMINAIRES THIS AREA TO EXISTING CIRCUITRY MADE AVAILABLE THROUGH DEMOLITION. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES IS MAINTAINED.

- GENERAL NOTES:**
- EXISTING LIGHTING CIRCUITRY TO BE MAINTAINED AND EXTENDED TO NEW FIXTURES.
 - RELOCATE EXISTING CAMERAS WHERE NEW ARCHITECTURAL CEILING CLOUDS AND LIGHTING OBSCURE CAMERA'S FIELD OF VIEW. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CAMERA CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
 - RELOCATE EXISTING EMERGENCY LIGHTS AND EXIT LIGHTS WHERE NEW ARCHITECTURAL CEILING CLOUDS AND LIGHTING LAYOUT CONFLICT WITH EXISTING LOCATIONS. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
 - RELOCATE EXISTING SPEAKERS WHERE NEW ARCHITECTURAL CEILING CLOUDS CONFLICT WITH EXISTING LOCATIONS. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
 - COORDINATE ALL RELOCATED DEVICES WITH ARCHITECT PRIOR TO PERFORMING WORK.



LEVEL 01 - PARTIAL LIGHTING PLAN
SCALE: 1" = 10'-0"

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHAL ST N
TWIN FALLS, ID 83301

Sheet:
LEVEL 01 - COMPOSITE LIGHTING PLAN

BID SET

Revisions: Δ

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No: **E2.01**

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KEYNOTES

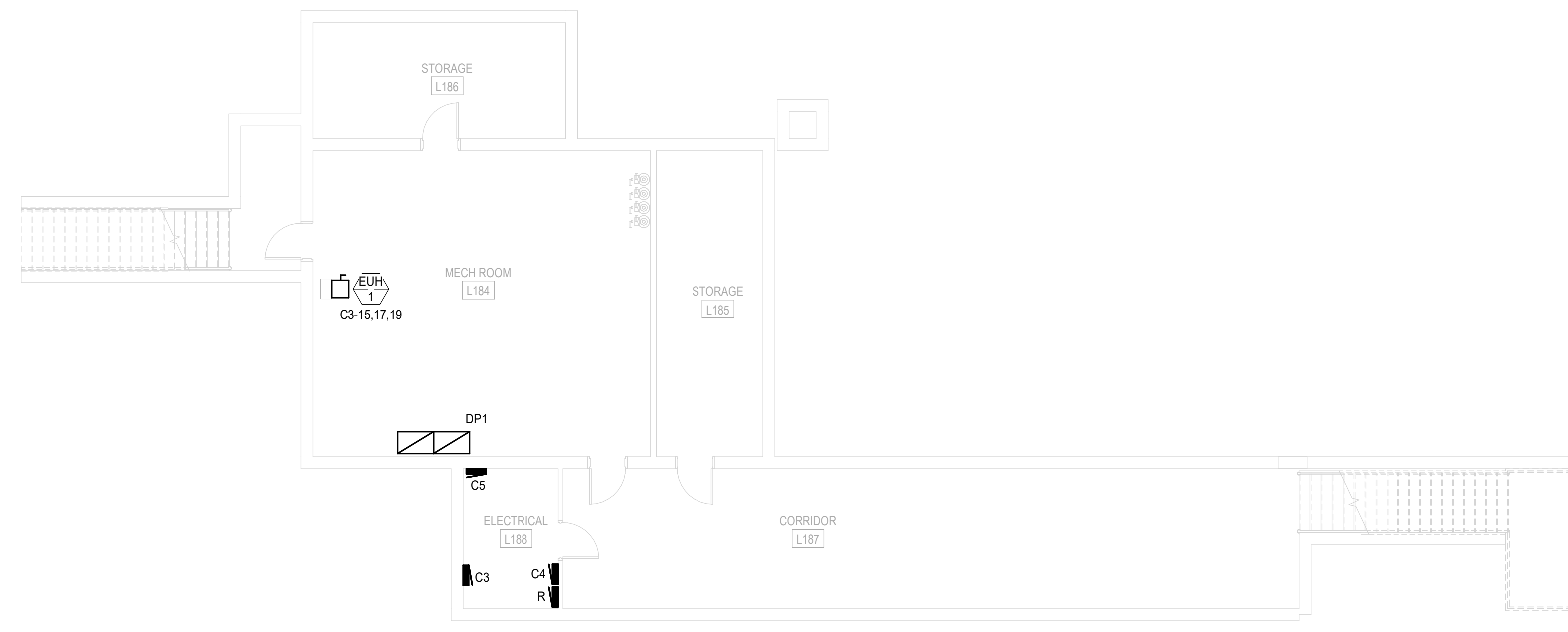
A

B

C

D

E



BASEMENT - COMPOSITE POWER PLAN
 SCALE: 1/8" = 1'-0"

1"
 IF LINE DOES NOT MEASURE 1" ON
 DRAWING IS NOT TO SCALE

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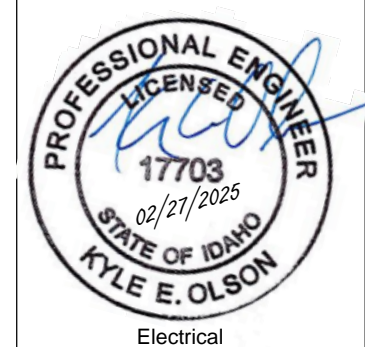
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Project:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
 TWIN FALLS, ID 83301

Sheet:
 BASEMENT - COMPOSITE
 POWER PLAN

BID SET

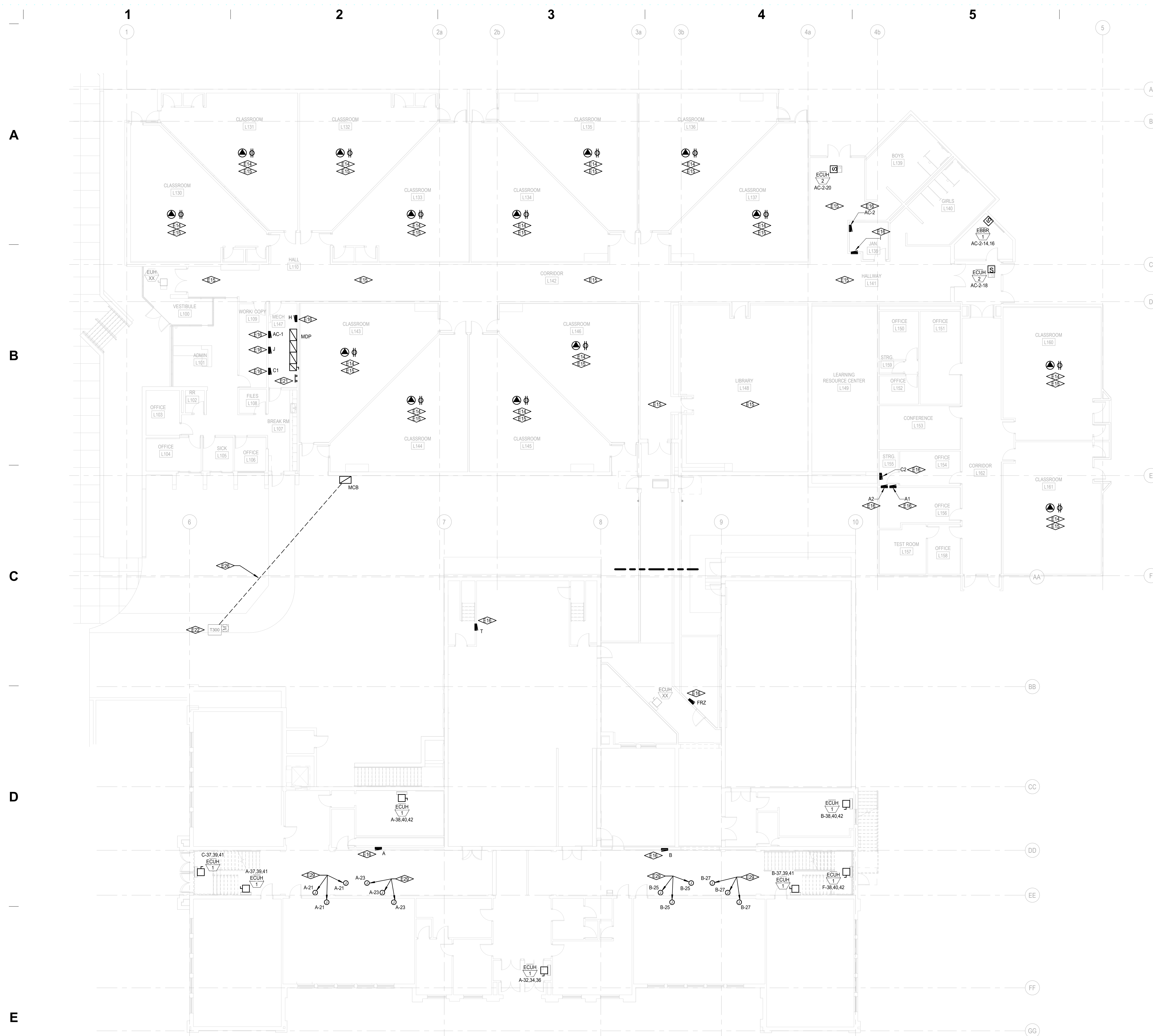


Revisions: △

Project No: 23028
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 Date: 02/27/2025

Sheet No:
E2.10

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KEYNOTES	
E14	CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING RECEPTACLES IN THIS AREA. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES IS MAINTAINED. VERIFY EXISTING LOADS ON CIRCUIT TO AVOID OVERLOADING CIRCUIT AND UPDATE PANEL SCHEDULE.
E15	REINSTALL CEILING MOUNTED POWER, FIRE ALARMA AND LOW VOLTAGE DEVICES REMOVED THROUGH DEMO PHASE.
E16	BID ALI SCOPE: PROVIDE NEW PANELBOARD TO REPLACE EXISTING PANELBOARD REMOVED THROUGH DEMO PHASE AT THIS LOCATION. PROVIDE NEW FEEDER. REFER TO ONE-LINE DIAGRAM.
E21	APPROXIMATE LOCATION OF MAIN GROUND BAR.
E22	APPROXIMATE LOCATION OF SERVICE ENTRANCE TRANSFORMER.
E26	APPROXIMATE LOCATION OF NEW SERVICE ENTRANCE FEEDER FROM TRANSFORMER TO MAIN CIRCUIT BREAKER.
E29	PROVIDE 120V CONNECTION TO FIRE / SMOKE DAMPER. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND REQUIREMENTS.

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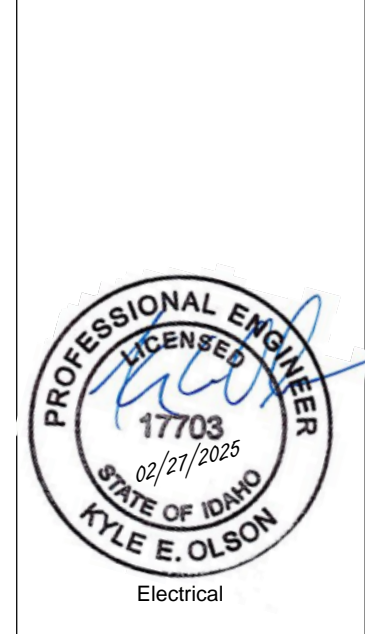
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Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 01 - COMPOSITE POWER PLAN

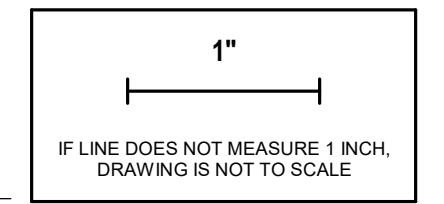
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Project No: 23028
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Sheet No: **E2.11**



LEVEL 01 - COMPOSITE POWER PLAN
 SCALE: 1" = 10'-0"

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KEYNOTES

E16 BID ALT SCOPE: PROVIDE NEW PANELBOARD TO REPLACE EXISTING PANELBOARD REMOVED THROUGH DEMO PHASE AT THIS LOCATION. PROVIDE NEW FEEDER. REFER TO ONE-LINE DIAGRAM.

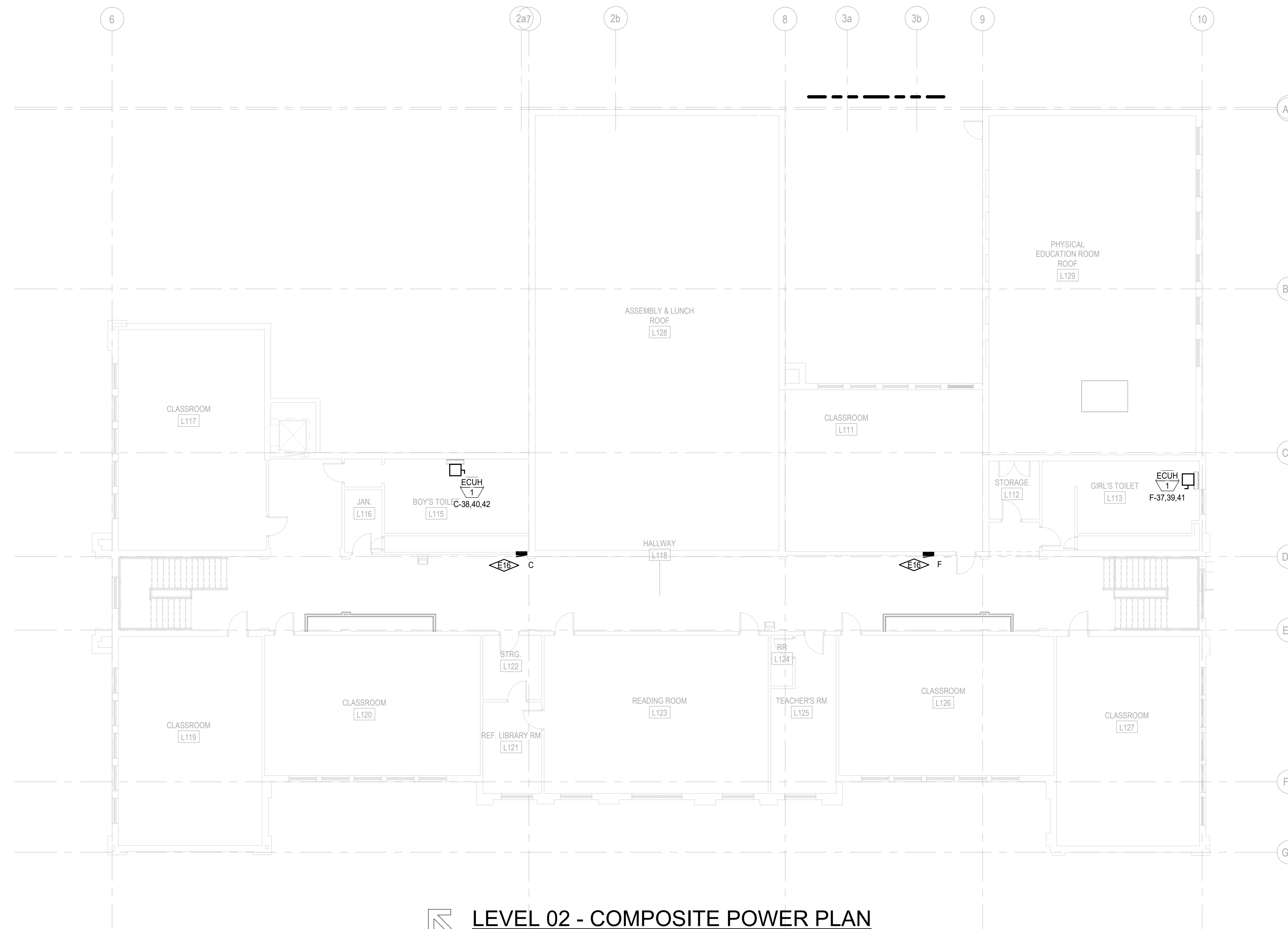
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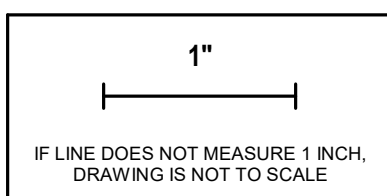
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D

E



LEVEL 02 - COMPOSITE POWER PLAN
SCALE: 1" = 10'-0"



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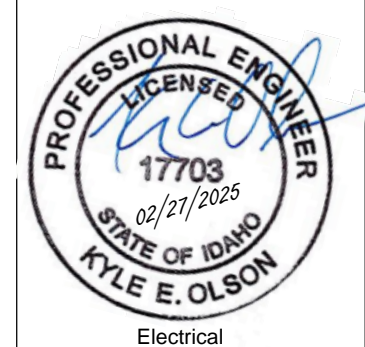
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LINCOLN ELEMENTARY SCHOOL
238 BUHAL ST N
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Sheet:
LEVEL 02 - COMPOSITE POWER PLAN

BID SET

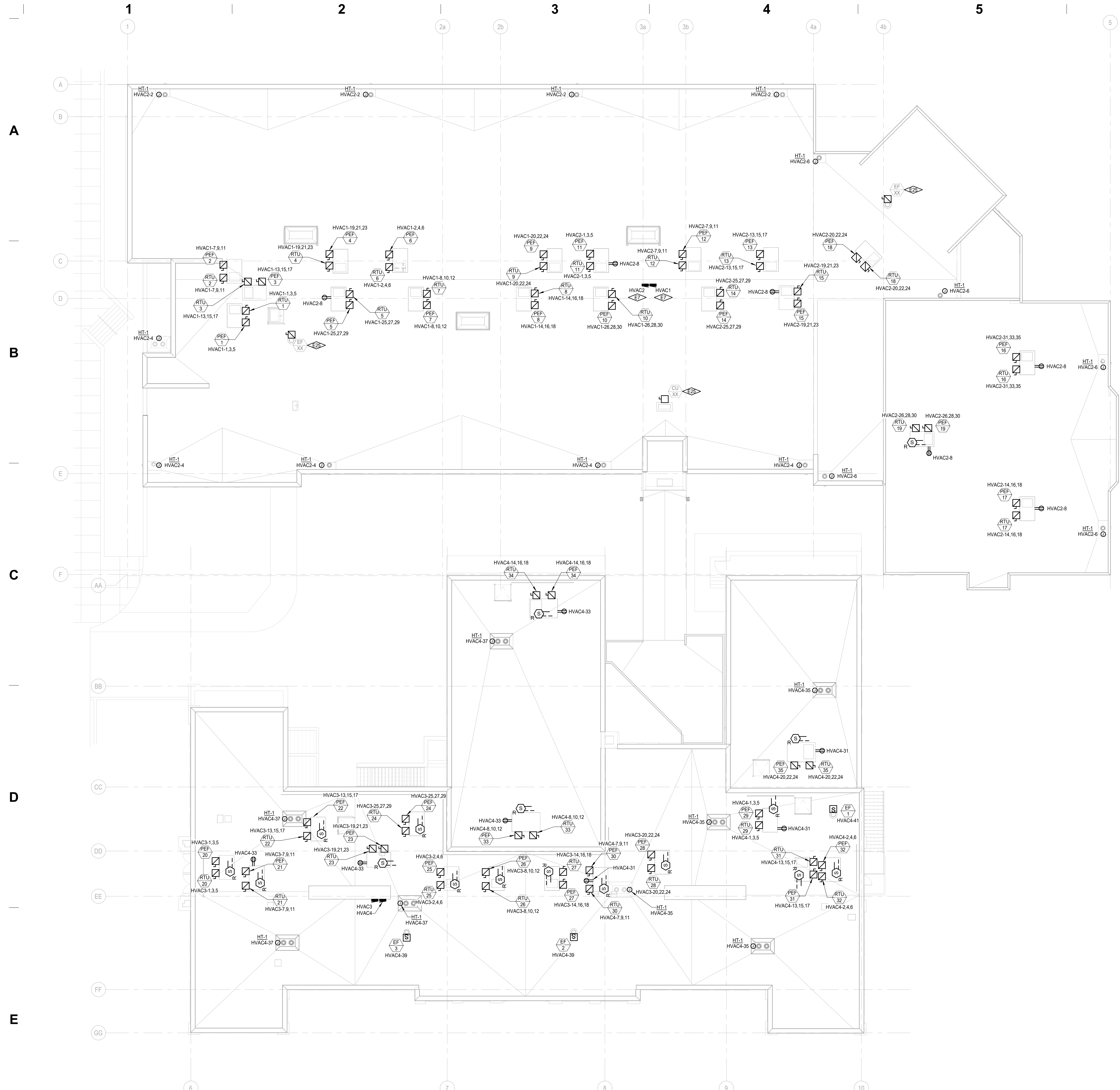


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Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No:
E2.12

KEYNOTES	
E7	MOUNT EQUIPMENT ON SLOTTED METAL U-CHANNEL RACK IN A VISIBLE AND ACCESSIBLE LOCATION, AND PROVIDED WITH NEC REQUIRED WORKING SPACE. WHERE POSSIBLE, ADJACENT WALL MAY BE USED FOR BRACING AT TOP OF RACK IN PLACE OF ANGLED BRACING AT BASE.
E28	REINSTALL EXISTING ELECTRICAL CONNECTION TO FEED REINSTALLED MECHANICAL EQUIPMENT.



ROOF - COMPOSITE ELECTRICAL PLAN
SCALE: 1" = 10'-0"

1"
LINE DOES NOT MEASURE 1/4" INCH.
DRAWING IS NOT TO SCALE.

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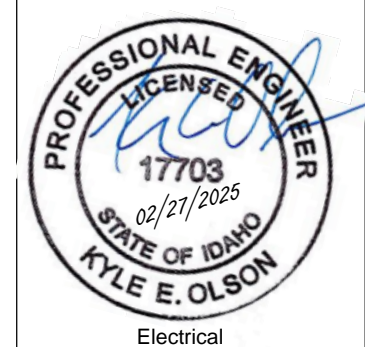
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TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
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Sheet:
ROOF - COMPOSITE ELECTRICAL PLAN

BID SET

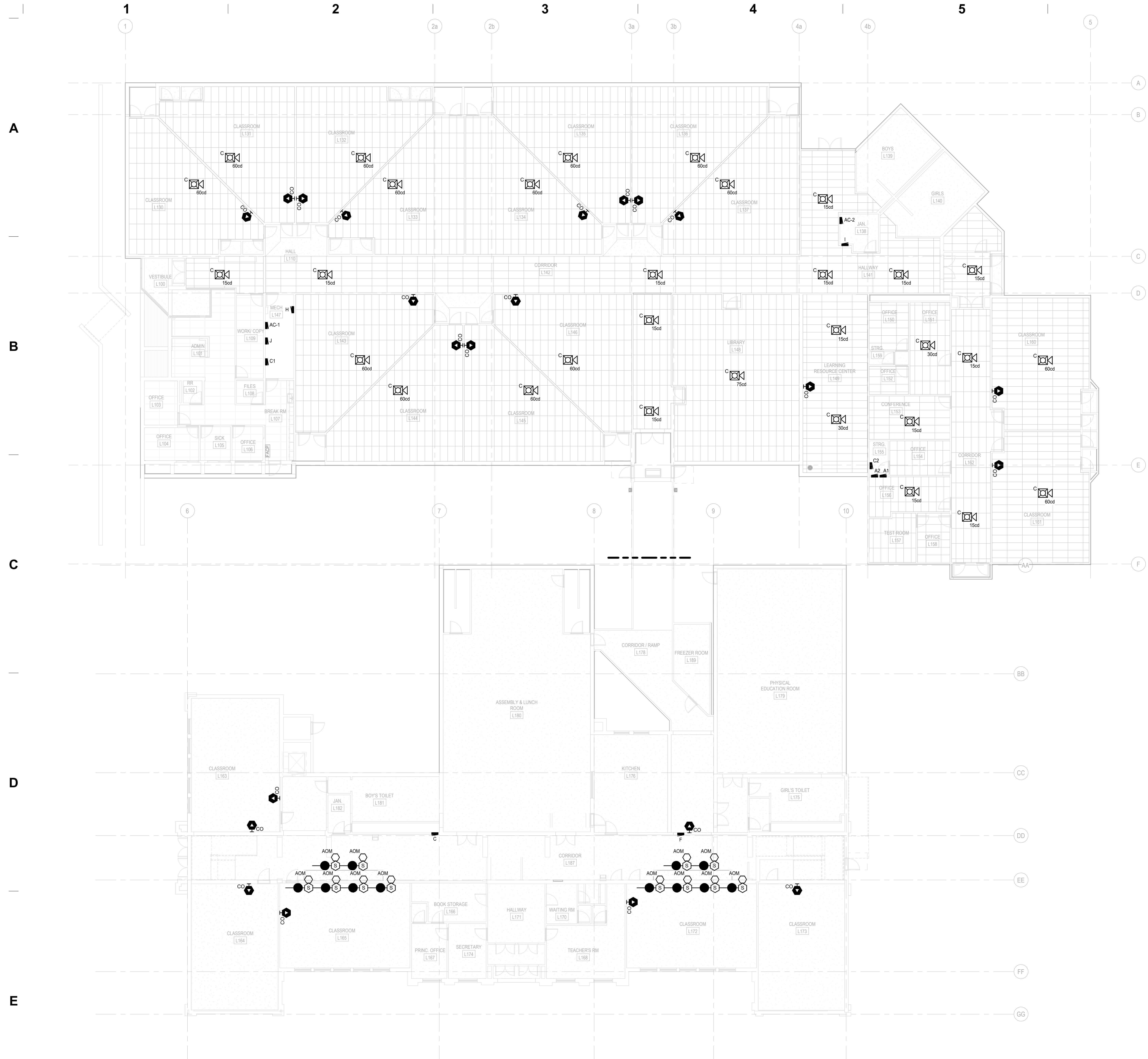


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Project No: 23028
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Date: 02/27/2025

Sheet No: **E2.13**

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LEVEL 01 - COMPOSITE FIRE ALARM PLAN
SCALE: 1" = 10'-0"

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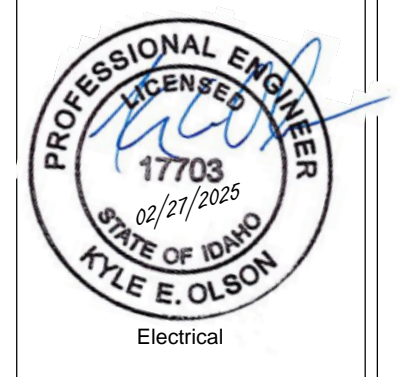
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TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHAL ST N
TWIN FALLS, ID 83301

Sheet:
LEVEL 01 - COMPOSITE FIRE ALARM PLAN

BID SET



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Date: 02/27/2025

Sheet No: **E2.21**

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1"
IF LINE DOES NOT MEASURE 1" ON DRAWING IS NOT TO SCALE.

1

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KEYNOTES

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B

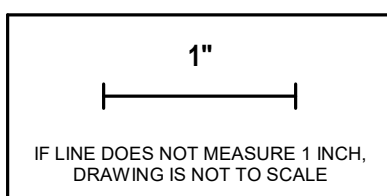
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LEVEL 02 - COMPOSITE FIRE ALARM PLAN
 SCALE: 1" = 10'-0"



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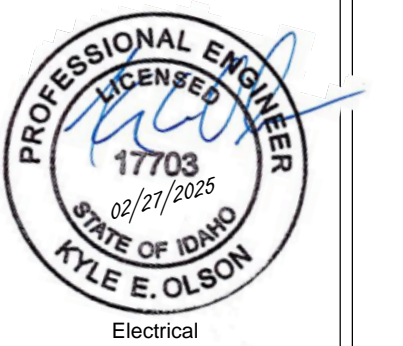
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Project:
 TFS DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
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Sheet:
 LEVEL 02 - COMPOSITE FIRE
 ALARM PLAN

BID SET



Revisions: △

Project No: 23028
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 Date: 02/27/2025

Sheet No:
E2.22

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Switchboard DP1

Location: Supply From: MDP Mounting: Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: 22 KAIC Mains Type: MCB Bus Rating: 800 A MCB Rating: 800 A

Circuit Notes:

Load	Type	A	B	C	Note
PANEL C5	Spare	0 VA	0 VA	0 VA	
PANEL C3	Spare; M	2500 VA	2500 VA	2500 VA	
PANEL C4	Spare	0 VA	0 VA	0 VA	
PANEL R	Spare	0 VA	0 VA	0 VA	
PANEL A	Spare; G; M	3000 VA	3600 VA	3600 VA	
PANEL B	Spare; G; M	2600 VA	2600 VA	2000 VA	
PANEL FRZ	Spare	0 VA	0 VA	0 VA	
PANEL T	Spare	0 VA	0 VA	0 VA	
PANEL C	Spare; M	2000 VA	2000 VA	2000 VA	
PANEL F	Spare; M	2000 VA	2000 VA	2000 VA	
PANEL HVAC3	Spare; M	35018 VA	35018 VA	35018 VA	
PANEL HVAC4	Spare; R; G; M	32739 VA	32255 VA	32895 VA	
		79857 VA	79873 VA	80013 VA	
		665 A	667 A	667 A	
		0	0	0	
		% A-B	% B-C	% C-A	

Refer to one-line diagram for space, spare, and circuit breaker quantities.

Load Type	Connected Load	Demand Factor	Demand Load	Switchboard Totals
L Lighting	0 VA	0.00%	0 VA	
R Receptacle	1260 VA	100.00%	1260 VA	
M Motor	234183 VA	102.12%	239137 VA	Total Connected Load: 239843 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 666 A
G General	4400 VA	100.00%	4400 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 244797 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 679 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Switchboard MDP

Location: Supply From: MDP Mounting: Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: 42 KAIC Mains Type: MCB Bus Rating: 2000 A MCB Rating: 2000 A

Circuit Notes:

Load	Type	A	B	C	Note
PANEL AC-1	Spare	0 VA	0 VA	0 VA	
PANEL J	Spare	0 VA	0 VA	0 VA	
PANEL C1	Spare	0 VA	0 VA	0 VA	
PANEL H	Spare	0 VA	0 VA	0 VA	
PANEL AC-2	Spare; M	2500 VA	1000 VA	1500 VA	
PANEL PANEL I	Spare	0 VA	0 VA	0 VA	
PANEL C2	Spare	0 VA	0 VA	0 VA	
PANEL HVAC1	Spare; M	35426 VA	35426 VA	35426 VA	
PANEL DP1	Spare; R; G; M	79857 VA	79873 VA	80013 VA	
PANEL A1	Spare	0 VA	0 VA	0 VA	
PANEL A2	Spare	0 VA	0 VA	0 VA	
PANEL HVAC2	Spare; R; G; M	34336 VA	33506 VA	33506 VA	
		152119 VA	149805 VA	150445 VA	
		1268 A	1249 A	1254 A	
		2	0	1	
		% A-B	% B-C	% C-A	

Refer to one-line diagram for space, spare, and circuit breaker quantities.

Load Type	Connected Load	Demand Factor	Demand Load	Switchboard Totals
L Lighting	0 VA	0.00%	0 VA	
R Receptacle	2340 VA	100.00%	2340 VA	
M Motor	442229 VA	101.12%	447183 VA	Total Connected Load: 452469 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 1256 A
G General	7900 VA	100.00%	7900 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 457423 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 1270 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC2

Location: Supply From: MDP Mounting: Surface Enclosure: Type 3R Voltage: 120/208 Wye Phase: 3 Wire: 4 A.I.C. Rating: 22 KAIC Mains Type: MCB Bus Rating: 400 A MCB Rating: 400 A

Circuit Notes: 1. GFCI BREAKER W/ 30mA TRIP UNIT

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1		3531 VA 1000 VA												
3	RTU-11		M	40 A	3	3531 VA 1250 VA	3531 VA 1250 VA	3531 VA 1250 VA	1	20 A	G	DRAIN HEAT TRACE	2	1
5														
7		3531 VA 1080 VA												
9	RTU-12		M	40 A	3	3531 VA 0 VA			1	20 A	--	SPARE	8	
11														
13		3531 VA 3531 VA												
15	RTU-13		M	40 A	3	3531 VA 3531 VA	3531 VA 3531 VA	3531 VA 3531 VA	3	40 A	M	RTU-17	16	
17														
19		3531 VA 3651 VA												
21	RTU-15		M	40 A	3	3531 VA 3651 VA	3531 VA 3651 VA	3531 VA 3651 VA	3	40 A	M	RTU-18	22	
23														
25		3531 VA 3891 VA												
27	RTU-14		M	40 A	3	3531 VA 3891 VA	3531 VA 3891 VA	3531 VA 3891 VA	3	45 A	M	RTU-19	26	
29														
31		3531 VA 0 VA												
33	RTU-16		M	40 A	3	3531 VA 0 VA			3	40 A	--	SPARE	32	
35														
37		0 VA 0 VA												
39	SPARE		--	40 A	3	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	3	40 A	--	SPARE	38	
41														
		Total Load:				34336 VA	33506 VA	33506 VA						
		Total Amps:				286 A	279 A	279 A						
		Phase Balance:				2 % A-B	0 % B-C	2 % C-A						

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	
R Receptacle	1080 VA	100.00%	1080 VA	
M Motor	96768 VA	102.79%	99470 VA	Total Connected Load: 101348 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 281 A
G General	3500 VA	100.00%	3500 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 104050 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 289 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC1

Location: Supply From: MDP Mounting: Surface Enclosure: Type 3R Voltage: 120/208 Wye Phase: 3 Wire: 4 A.I.C. Rating: 22 KAIC Mains Type: MCB Bus Rating: 400 A MCB Rating: 400 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1		3651 VA 3531 VA												
3	RTU-1		M	40 A	3	3651 VA 3531 VA	3651 VA 3531 VA	3651 VA 3531 VA	3	40 A	M	RTU-6	4	
5														
7		3531 VA 3531 VA												
9	RTU-2		M	40 A	3	3531 VA 3531 VA	3531 VA 3531 VA	3531 VA 3531 VA	3	40 A	M	RTU-7	10	
11														
13		3531 VA 3531 VA												
15	RTU-3		M	40 A	3	3531 VA 3531 VA	3531 VA 3531 VA	3531 VA 3531 VA	3	40 A	M	RTU-8	14	
17														
19		3531 VA 3531 VA												
21	RTU-4		M	40 A	3	3531 VA 3531 VA	3531 VA 3531 VA	3531 VA 3531 VA	3	40 A	M	RTU-9	22	
23														
25		3531 VA 3531 VA												
27	RTU-5		M	40 A	3	3531 VA 3531 VA	3531 VA 3531 VA	3531 VA 3531 VA	3	40 A	M	RTU-10	26	
29														
31		0 VA 0 VA												
33	SPARE		--	40 A	3	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	3	40 A	--	SPARE	32	
35														
37		0 VA 0 VA												
39	SPARE		--	40 A	3	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	3	40 A	--	SPARE	40	
41														
		Total Load:				35426 VA	35426 VA	35426 VA						
		Total Amps:				295 A	295 A	295 A						
		Phase Balance:				0 % A-B	0 % B-C	0 % C-A						

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	
R Receptacle	0 VA	0.00%	0 VA	
M Motor	106279 VA	102.37%	108801 VA	Total Connected Load: 106279 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 295 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 108801 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 302 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC4

Location: Supply From: DP1 Mounting: Surface Enclosure: Type 3R Voltage: 120/208 Wye Phase: 3 Wire: 4 A.I.C. Rating: 22 KAIC Mains Type: MCB Bus Rating: 400 A MCB Rating: 400 A

Circuit Notes: 1. GFCI BREAKER W/ 30mA TRIP UNIT

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1		3891 VA 3891 VA												
3	RTU-29		M	45 A	3	3891 VA 3891 VA	3891 VA 3891 VA	3891 VA 3891 VA	3	45 A	M	RTU-32	4	
5														
7		3891 VA 4371 VA												
9	RTU-30		M	45 A	3	3891 VA 4371 VA	3891 VA 4371 VA	3891 VA 4371 VA	3	50 A	M	RTU-33	10	
11														
13		3891 VA 4371 VA												
15	RTU-31		M	45 A	3	3891 VA 4371 VA	3891 VA 4371 VA	3891 VA 4371 VA	3	50 A	M	RTU-34	16	
17														
19		0 VA 6893 VA												
21	SPARE		--	45 A	3	0 VA 6893 VA	0 VA 6893 VA	0 VA 6893 VA	3	80 A	M	RTU-35	22	
23														
25		0 VA 0 VA												
27	SPARE		--	45 A	3	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	3	50 A	--	SPARE	26	
29														
31	ROOF RECEPTACLES	R	20 A	1	540 VA	--	--	--	1	--	--	SPACE	32	
33	ROOF RECEPTACLES	R	20 A	1	720 VA	--	--	--	1	--	--	SPACE	34	
1	35 DRAIN HEAT TRACE	G	20 A	1	1000 VA	--	--	--	1	--	--	SPACE	36	
1	37 DRAIN HEAT TRACE	G	20 A	1	1000 VA	--	--	--	1	--	--	SPACE	38	
39	EF-2, 3	M	20 A	1	0 VA	336 VA	--	--	1	--	--	SPACE	40	
41	EF-1	M	20 A	1	0 VA	696 VA	--	--	1	--	--	SPACE	42	
		Total Load:				32739 VA	32255 VA	32895 VA						
		Total Amps:				273 A	269 A	275 A						
		Phase Balance:				2 % A-B	2 % B-C	0 % C-A						

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	
R Receptacle	1260 VA	100.00%	1260 VA	
M Motor	94629 VA	105.23%	99583 VA	Total Connected Load: 97889 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 272 A
G General	2000 VA	100.00%	2000 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 102843 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 285 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC3

Location: Supply From: DP1 Mounting: Surface Enclosure: Type 3R Voltage: 120/208 Wye Phase: 3 Wire: 4 A.I.C. Rating: 22 KAIC Mains Type: MCB Bus Rating: 400 A MCB Rating: 400 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1		3891 VA 3891 VA												
3	RTU-20		M	45 A	3	3891 VA 3891 VA	3891 VA 3891 VA	3891 VA 3891 VA	3	45 A	M	RTU-25	4	
5														

Panel I

Location: JAN, L138
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 10 KAIC
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 225 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	2	
3	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	4	
5	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	6	
7	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	8	
9	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	10	
11	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	12	
13	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	14	
15	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	16	
17	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	18	
19	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	20	
21	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	22	
23	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	24	
25	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	26	
27	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	28	
29	EXISTING BLDG LOAD	--	20 A	2					1	20 A	--	EXISTING BLDG LOAD	30	
31					0 VA	0 VA							32	
33	EXISTING BLDG LOAD	--	40 A	3					3	40 A	--	EXISTING BLDG LOAD	34	
35													36	
37													38	
39	EXISTING BLDG LOAD	--	40 A	3					3	40 A	--	EXISTING BLDG LOAD	40	
41													42	

Total Load: 0 VA 0 VA 0 VA
Total Amps: 0 A 0 A 0 A
Phase Balance: % A-B % B-C % C-A

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	0 VA	0.00%	0 VA	Total Connected Load: 0 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 0 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 0 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 0 A
O Other	0 VA	0.00%	0 VA	

Panel AC-2

Location: JAN, L138
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 16 KAIC
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 225 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1						0 VA	0 VA						2	
3	A/C UNIT #8	--	20 A	3					3	20 A	--	A/C UNIT #14	4	
5													6	
7						0 VA	0 VA						8	
9	A/C UNIT #15	--	20 A	3					3	20 A	--	A/C UNIT #13	10	
11													12	
13						0 VA	1000 VA						14	
15	A/C UNIT #7	--	20 A	3					2	20 A	M	EBBR-1	16	
17													18	
19	GFI UNIT #8	--	20 A	1	0 VA	1500 VA			1	20 A	M	ECUH-2	20	
21	GFI UNIT #7	--	20 A	1					1	20 A	--	SPARE	22	
23	SPARE	--	20 A	1					1	20 A	--	SPARE	24	
25	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	26	
27	SPARE	--	20 A	1					1	20 A	--	SPARE	28	
29	SPARE	--	20 A	1					1	20 A	--	SPARE	30	
31	SPACE	--	--	1					1	--	--	SPACE	32	
33	SPACE	--	--	1					1	--	--	SPACE	34	
35	SPACE	--	--	1					1	--	--	SPACE	36	
37	SPACE	--	--	1					1	--	--	SPACE	38	
39	SPACE	--	--	1					1	--	--	SPACE	40	
41	SPACE	--	--	1					1	--	--	SPACE	42	

Total Load: 2500 VA 1000 VA 1500 VA
Total Amps: 21 A 8 A 13 A
Phase Balance: 15% A-B 5% B-C 63 % C-A

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	5000 VA	110.00%	5500 VA	Total Connected Load: 5000 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 14 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 5500 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 15 A
O Other	0 VA	0.00%	0 VA	

Panel AC-1

Location: JAN, L138
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 42 KAIC
Mains Type: MLO
Bus Rating: 400 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1						0 VA	0 VA						2	
3	A/C UNIT #16	--	20 A	3					3	20 A	--	A/C UNIT #11	4	
5													6	
7						0 VA	0 VA						8	
9	A/C UNIT #9	--	20 A	3					3	20 A	--	A/C UNIT #4	10	
11													12	
13						0 VA	0 VA						14	
15	A/C UNIT #6	--	20 A	3					3	20 A	--	A/C UNIT #3	16	
17													18	
19						0 VA	0 VA						20	
21	A/C UNIT #2	--	20 A	3					3	20 A	--	A/C UNIT #12	22	
23													24	
25						0 VA	0 VA						26	
27	A/C UNIT #1	--	20 A	3					3	20 A	--	A/C UNIT #10	28	
29													30	
31	LIBRARY IT RM AC	--	20 A	2					3	20 A	--	A/C UNIT	32	
33	SPACE	--	--	1									34	
35	SPACE	--	--	1									36	
37	SPACE	--	--	1									38	
39	SPACE	--	--	1									40	
41	SPACE	--	--	1									42	

Total Load: 0 VA 0 VA 0 VA
Total Amps: 0 A 0 A 0 A
Phase Balance: % A-B % B-C % C-A

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	0 VA	0.00%	0 VA	Total Connected Load: 0 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 0 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 0 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 0 A
O Other	0 VA	0.00%	0 VA	

Panel C1

Location: JAN, L138
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 22 KAIC
Mains Type: MLO
Bus Rating: 100 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	COMPUTER CKTS RM 1	--	20 A	1	0 VA	0 VA			1	20 A	--	COMPUTER CKTS RM 9	2	
3	COMPUTER CKTS RM 1	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 9	4	
5	COMPUTER CKTS RM 2	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 10	6	
7	COMPUTER CKTS RM 2	--	20 A	1	0 VA	0 VA			1	20 A	--	COMPUTER CKTS RM 10	8	
9	COMPUTER CKTS RM 3	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 11	10	
11	COMPUTER CKTS RM 3	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 11	12	
13	COMPUTER CKTS RM 8	--	20 A	1	0 VA	0 VA			1	20 A	--	COMPUTER CKTS RM 12	14	
15	COMPUTER CKTS RM 4	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 12	16	
17	COMPUTER CKTS RM 5	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 13	18	
19	COMPUTER CKTS RM 5	--	20 A	1	0 VA	0 VA			1	20 A	--	COMPUTER CKTS RM 13	20	
21	COMPUTER CKTS RM 6	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 13	22	
23	COMPUTER CKTS RM 6	--	20 A	1					1	20 A	--	COMPUTER CKTS RM 13	24	
25	COMPUTER CKTS RM 7	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	26	
27	COMPUTER CKTS RM 7	--	20 A	1					1	20 A	--	SPARE	28	
29	COMPUTER CKTS RM 4	--	20 A	1					1	20 A	--	COPIER RM OUTLET	30	
31	EMTRU JEAETER	--	20 A	1	0 VA	0 VA			1	20 A	--	COPIER RM OUTLET	32	
33	EMTRU JEAETER	--	20 A	1					1	20 A	--	COMP CKTS LIBRARY	34	
35	DOOR ACCESS	--	20 A	1					1	20 A	--	COMP CKTS LIBRARY	36	
37	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	OFFICE OUTLETS	38	
39	COPIER	--	20 A	1					1	20 A	--	SPARE	40	
41	COPIER	--	20 A	1					1	20 A	--	SPARE	42	

Total Load: 0 VA 0 VA 0 VA
Total Amps: 0 A 0 A 0 A
Phase Balance: % A-B % B-C % C-A

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	0 VA	0.00%	0 VA	Total Connected Load: 0 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 0 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 0 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 0 A
O Other	0 VA	0.00%	0 VA	

Panel J

Location: JAN, L138
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 42 KAIC
Mains Type: MLO
Bus Rating: 225 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	2	
3	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	4	
5	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	6	
7	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	8	
9	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	10	
11	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	12	
13	EXISTING BLDG LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING BLDG LOAD	14	
15	EXISTING BLDG LOAD	--	20 A	1					1	20 A	--	EXISTING BLDG LOAD	16	
17													18	
19	EXISTING BLDG LOAD	--	20 A	3	0 VA	0 VA			3	20 A	--	EXISTING BLDG LOAD	20	
21													22	
23	SPARE	--	20 A	1					1	20 A	--	SPARE	24	
25	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	26	
27	SPARE	--	20 A	1					1					

Panel C4
Location: DP1
Supply From: DP1
Mounting: Surface
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 18 KAIC
Mains Type: MLO
Bus Rating: 125 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel C3
Location: DP1
Supply From: DP1
Mounting: Surface
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 14 KAIC
Mains Type: MLO
Bus Rating: 125 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel C
Location: DP1
Supply From: DP1
Mounting: Recessed
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 18 KAIC
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel B
Location: DP1
Supply From: DP1
Mounting: Recessed
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 10 KAIC
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel A
Location: DP1
Supply From: DP1
Mounting: Recessed
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 10 KAIC
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel C5
Location: DP1
Supply From: DP1
Mounting: Surface
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 18 KAIC
Mains Type: MLO
Bus Rating: 125 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel FRZ
Location: DP1
Supply From: DP1
Mounting: Surface
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 22 KAIC
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.

Panel F
Location: DP1
Supply From: DP1
Mounting: Recessed
Enclosure: Type 1
Voltage: 120/208 Wye
Phase: 3
Wire: 4
A.I.C. Rating: 10 KAIC
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A
Circuit Notes:
Table with columns: Note, Circ, Load, Type, Trip, Po, A, B, C, Po, Trip, Type, Load, Circ, Note. Includes a summary table for Load Type and Panel Totals.



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHAL ST N
TWIN FALLS, ID 83301

Sheet:
ELECTRICAL PANEL SCHEDULES

Revisions:
Triangle symbol indicating revision points.



Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No: E4.03

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2/27/2025 10:44:54 AM P:\info\2024\2024-333 TFSD Lincoln Elementary HVAC Upgrade\Cat

Panel R
 Location: DP1 Voltage: 120/208 Wye A.I.C. Rating: 18 KAIC
 Supply From: DP1 Phase: 3 Mains Type: MLO
 Mounting: Surface Wire: 4 Bus Rating: 125 A
 Enclosure: Type 1

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note	
1	R-LUNCH RM	--	20 A	1	0 VA	0 VA			1	20 A	--	R-CORRIDOR	2		
3	R-LUNCH RM	--	20 A	1		0 VA	0 VA		1	20 A	--	R-CORRIDOR	4		
5	R-LUNCH RM	--	20 A	1				0 VA	0 VA	1	20 A	--	R-BASEMENT	6	
7	ASSEMBLY RM	--	20 A	1	0 VA	0 VA			1	20 A	--	R-BASEMENT	8		
9	TEACHERS RM	--	20 A	1		0 VA	0 VA		1	20 A	--	LR-BASEMENT MAINT	10		
11	WAITING RM	--	20 A	1				0 VA	0 VA	1	20 A	--	LR-BASEMENT MAINT	12	
13	16 SW COOLER	--	20 A	1	0 VA	0 VA			1	20 A	--	LR-BASEMENT MAINT	14		
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	16		
17	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	18	
19	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	20		
21	ELEVATOR CAR LIGHTS	--	20 A	1		0 VA	0 VA		1	20 A	--	19 SW COOLER	22		
23	ELEVATOR A/C	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	24	
25	ELEVATOR MACH RM	--	20 A	1	0 VA	0 VA			1	20 A	--	ELEVATOR PIT LTG &...	26		
27	ELEVATOR FURNACE	--	20 A	1		0 VA	0 VA		1	20 A	--	ELEVATOR EXT LTG	28		
29	ELEVATOR MACH RM	--	20 A	1				0 VA	0 VA	1	20 A	--	LR-MACHINE RM	30	
31	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	32		
33	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	34		
35	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	36	
37	SPACE	--	--	1	--	--	--	--	1	--	--	SPACE	38		
39	SPACE	--	--	1	--	--	--	--	1	--	--	SPACE	40		
41	SPACE	--	--	1	--	--	--	--	1	--	--	SPACE	42		
Total Load:						0 VA	0 VA		0 VA						
Total Amps:						0 A	0 A		0 A						
Phase Balance:						% A-B	% B-C		% C-A						
Load Type															
L	Lighting	0 VA	0.00%	0 VA										Power Factor: 1	
R	Receptacle	0 VA	0.00%	0 VA											
M	Motor	0 VA	0.00%	0 VA										Total Connected Load: 0 VA	
C	Continuous	0 VA	0.00%	0 VA										Total Connected Current: 0 A	
G	General	0 VA	0.00%	0 VA											
K	Kitchen	0 VA	0.00%	0 VA										Total Demand Load: 0 VA	
E	Existing	0 VA	0.00%	0 VA										Total Demand Current: 0 A	
O	Other	0 VA	0.00%	0 VA											
General Notes:															

Panel T
 Location: DP1 Voltage: 120/208 Wye A.I.C. Rating: 10 KAIC
 Supply From: DP1 Phase: 3 Mains Type: MCB
 Mounting: Recessed Wire: 4 Bus Rating: 100 A
 Enclosure: Type 1

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note	
1	EXISTING LOAD	--	20 A	1	0 VA	0 VA			1	20 A	--	CLOSET	2		
3	WHITE	--	20 A	1		0 VA	0 VA		1	20 A	--	BLUE	4		
5	LIGHTS	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING LOAD	6	
7	YES/SLOW PLUG	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING LOAD	8		
9	EXISTING LOAD	--	20 A	1		0 VA	0 VA		1	20 A	--	EXISTING LOAD	10		
11	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	14		
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	16		
17	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	18	
Total Load:						0 VA	0 VA		0 VA						
Total Amps:						0 A	0 A		0 A						
Phase Balance:						% A-B	% B-C		% C-A						
Load Type															
L	Lighting	0 VA	0.00%	0 VA										Power Factor: 1	
R	Receptacle	0 VA	0.00%	0 VA											
M	Motor	0 VA	0.00%	0 VA										Total Connected Load: 0 VA	
C	Continuous	0 VA	0.00%	0 VA										Total Connected Current: 0 A	
G	General	0 VA	0.00%	0 VA											
K	Kitchen	0 VA	0.00%	0 VA										Total Demand Load: 0 VA	
E	Existing	0 VA	0.00%	0 VA										Total Demand Current: 0 A	
O	Other	0 VA	0.00%	0 VA											

A

B

C

D

E

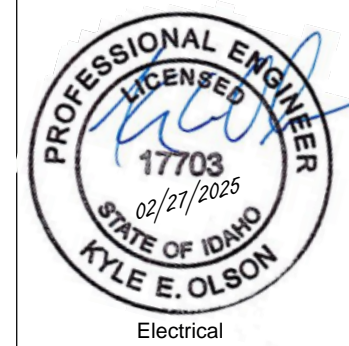


Project:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
 TWIN FALLS, ID 83301

Sheet:
 ELECTRICAL PANEL
 SCHEDULES

BID SET

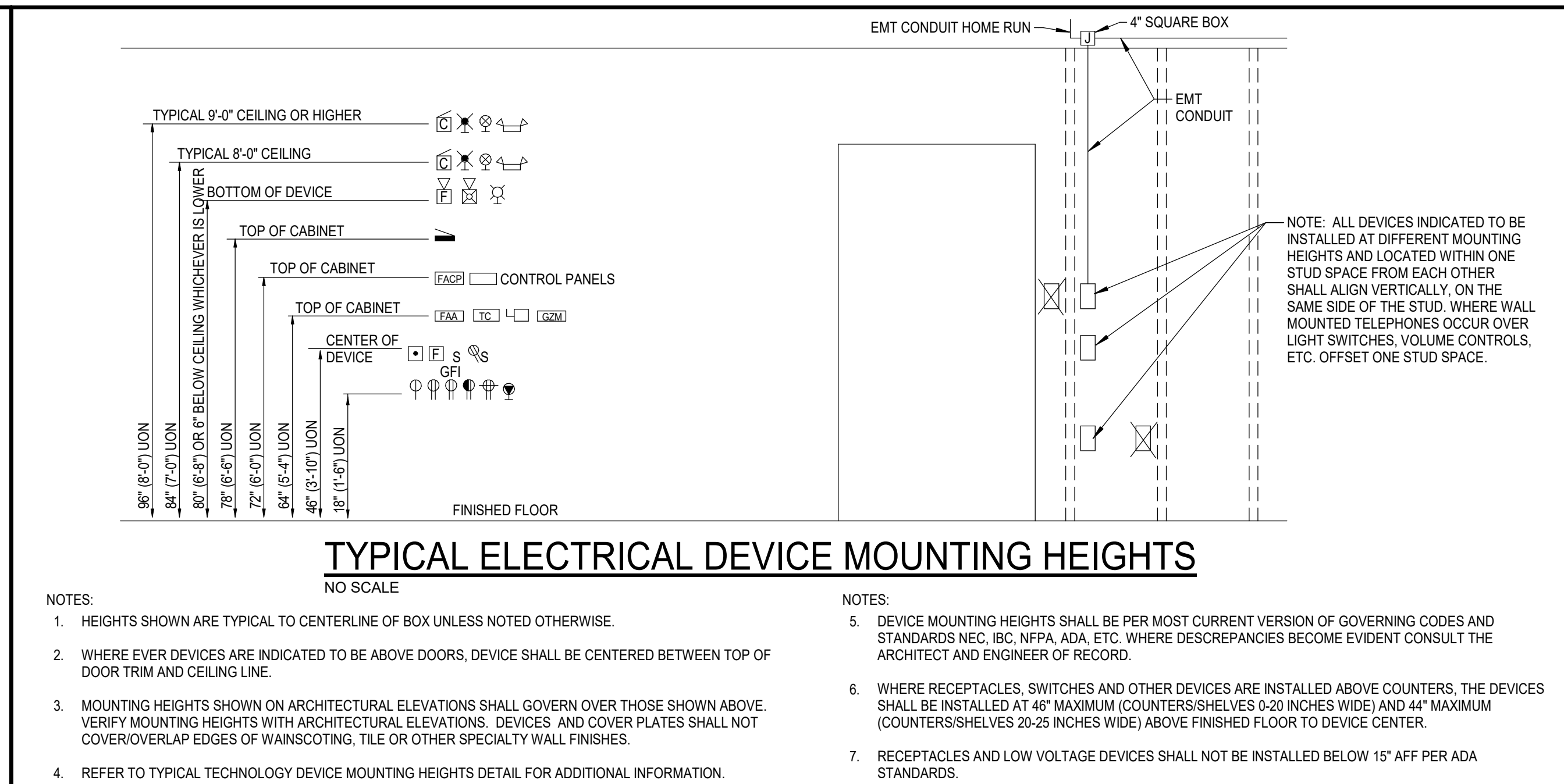
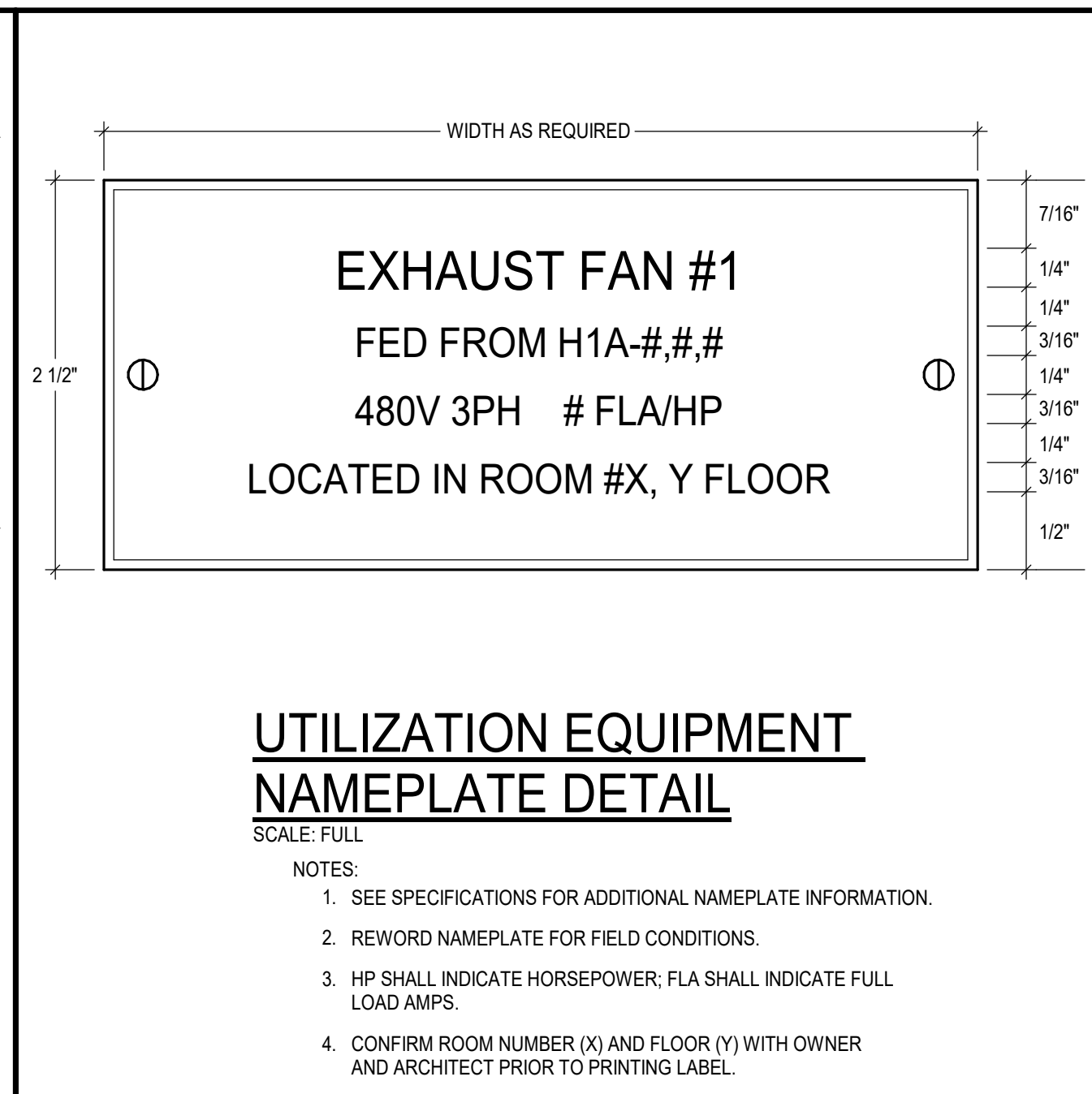
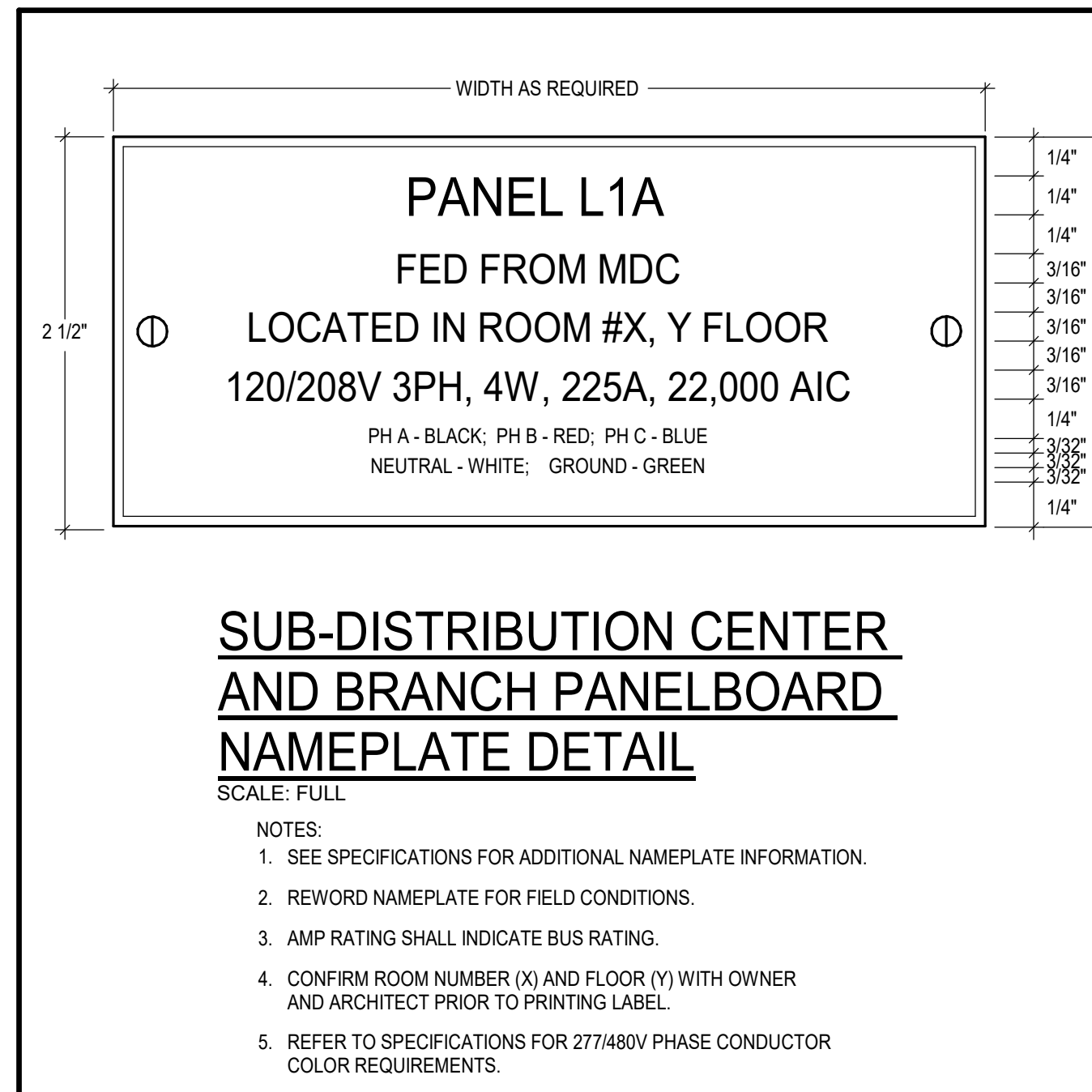


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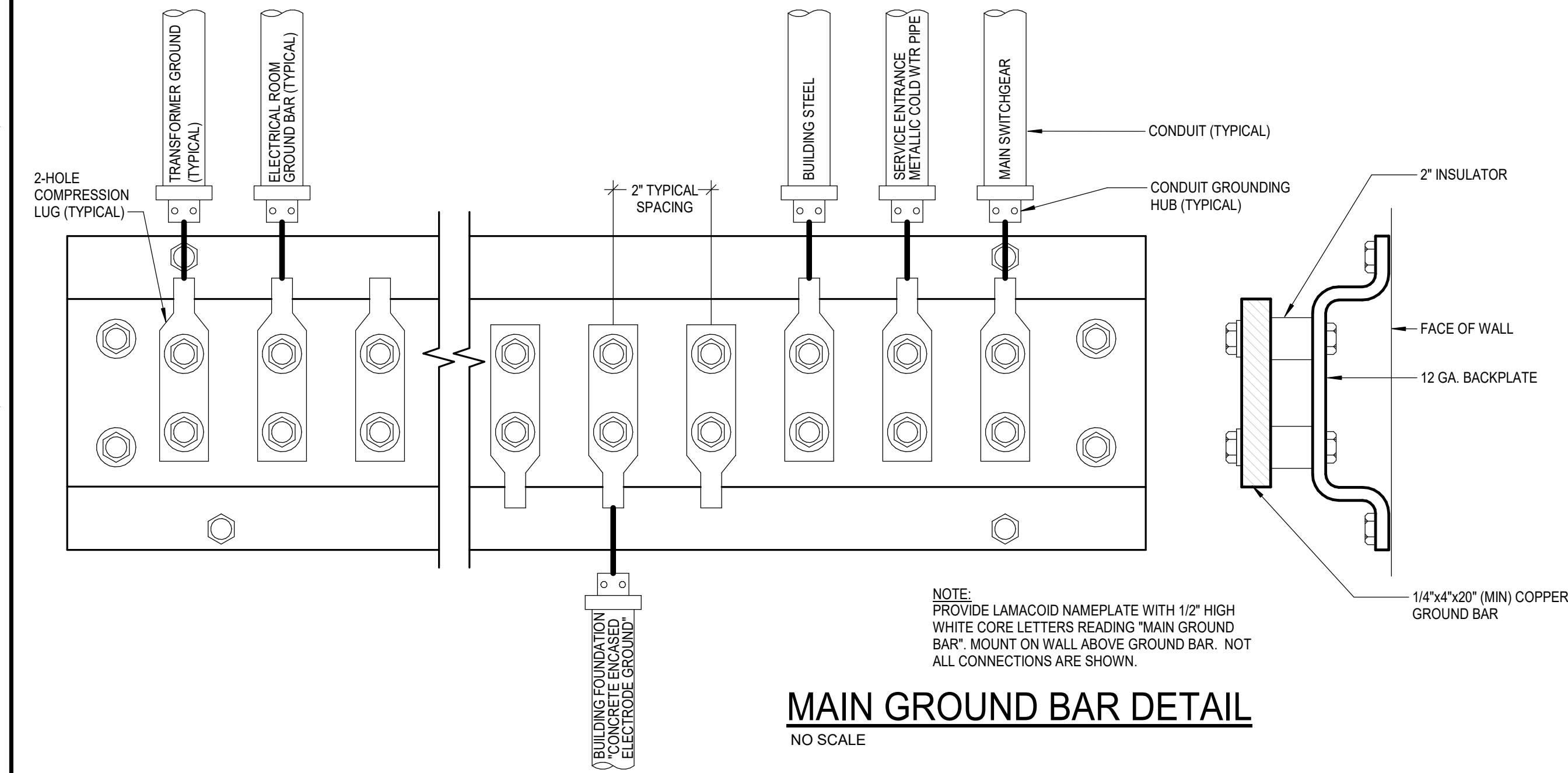
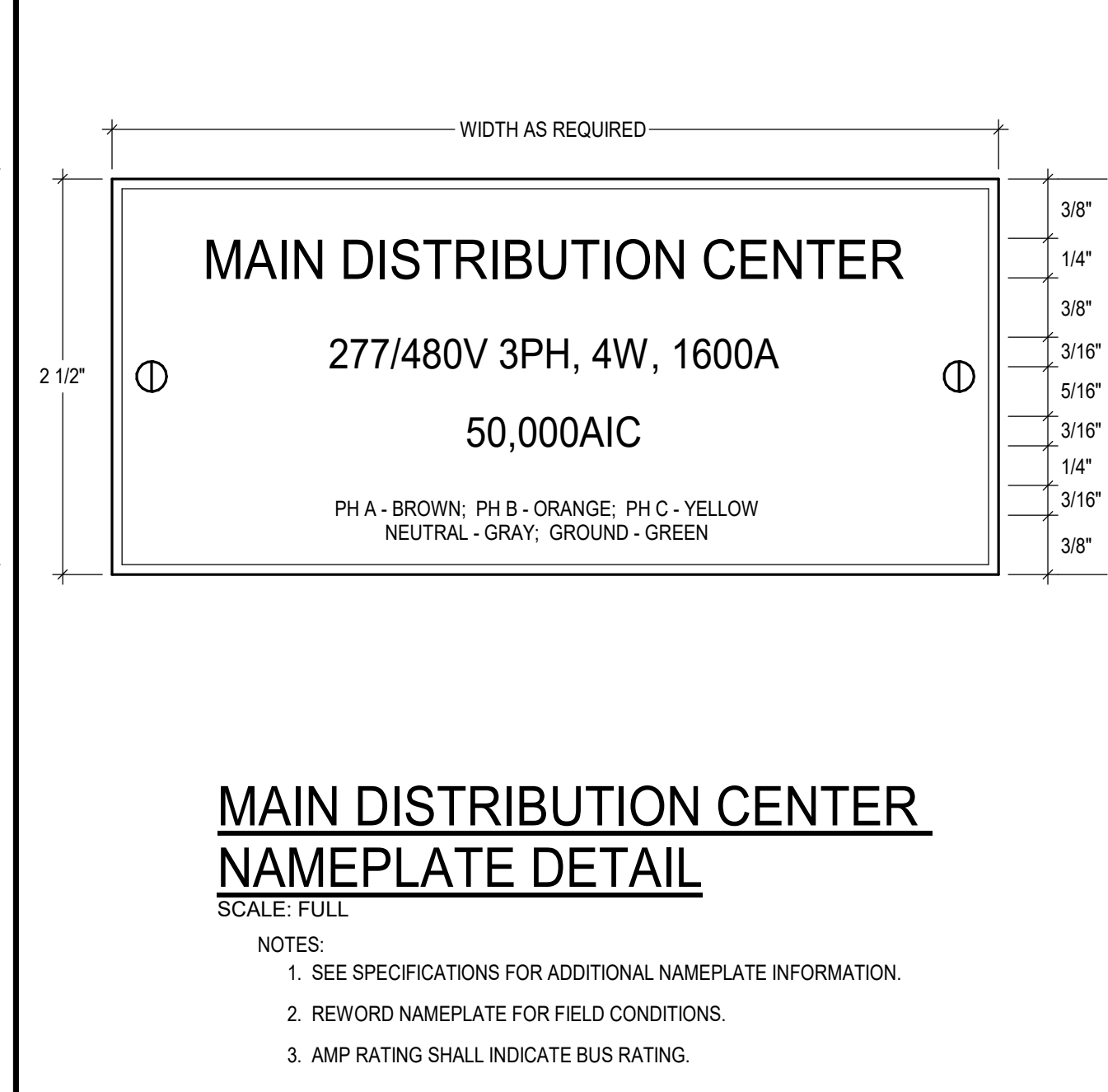
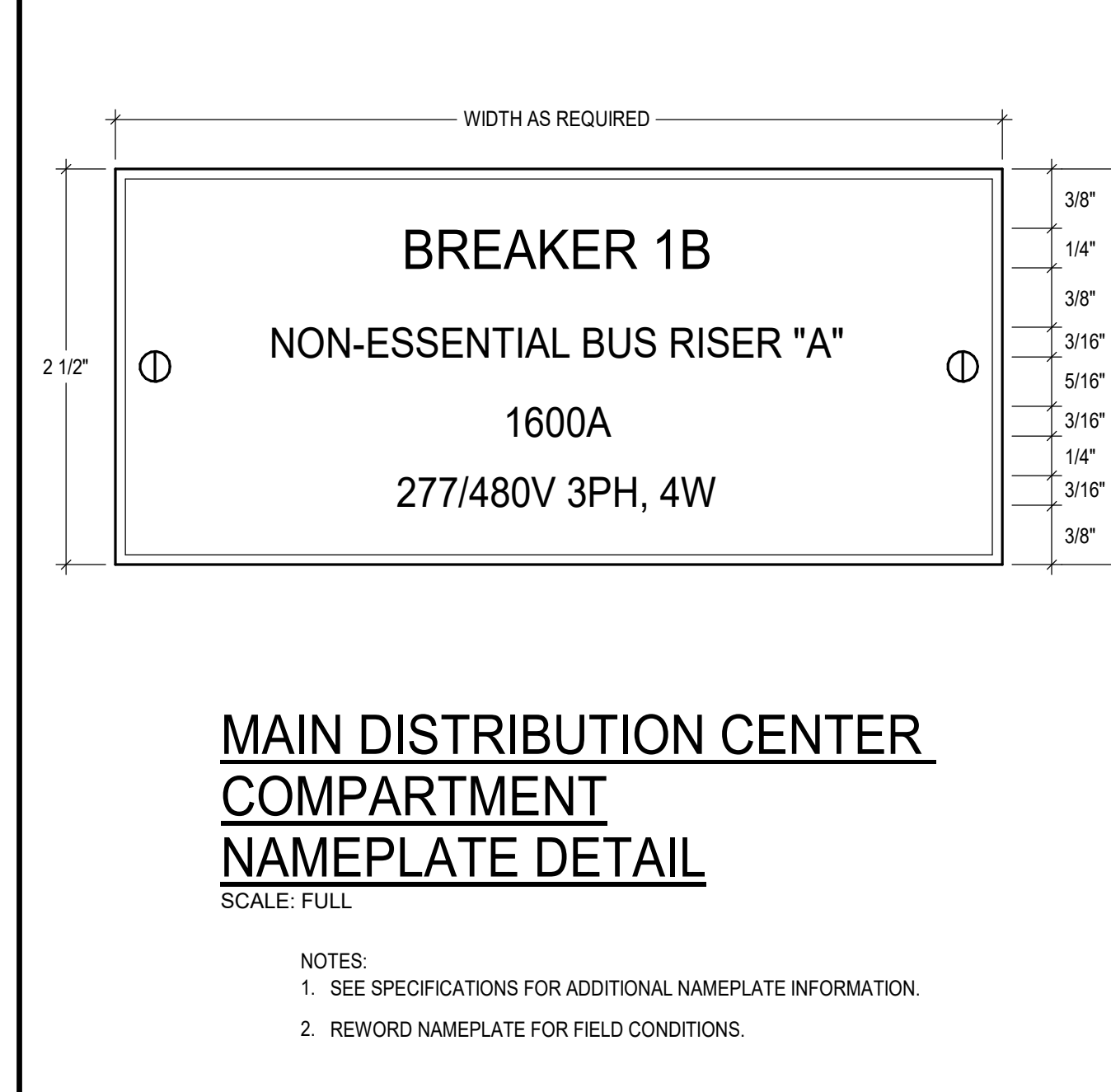
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 Drawn By: JS
 Checked By: KO
 Date: 02/27/2025

Sheet No:
 E4.04

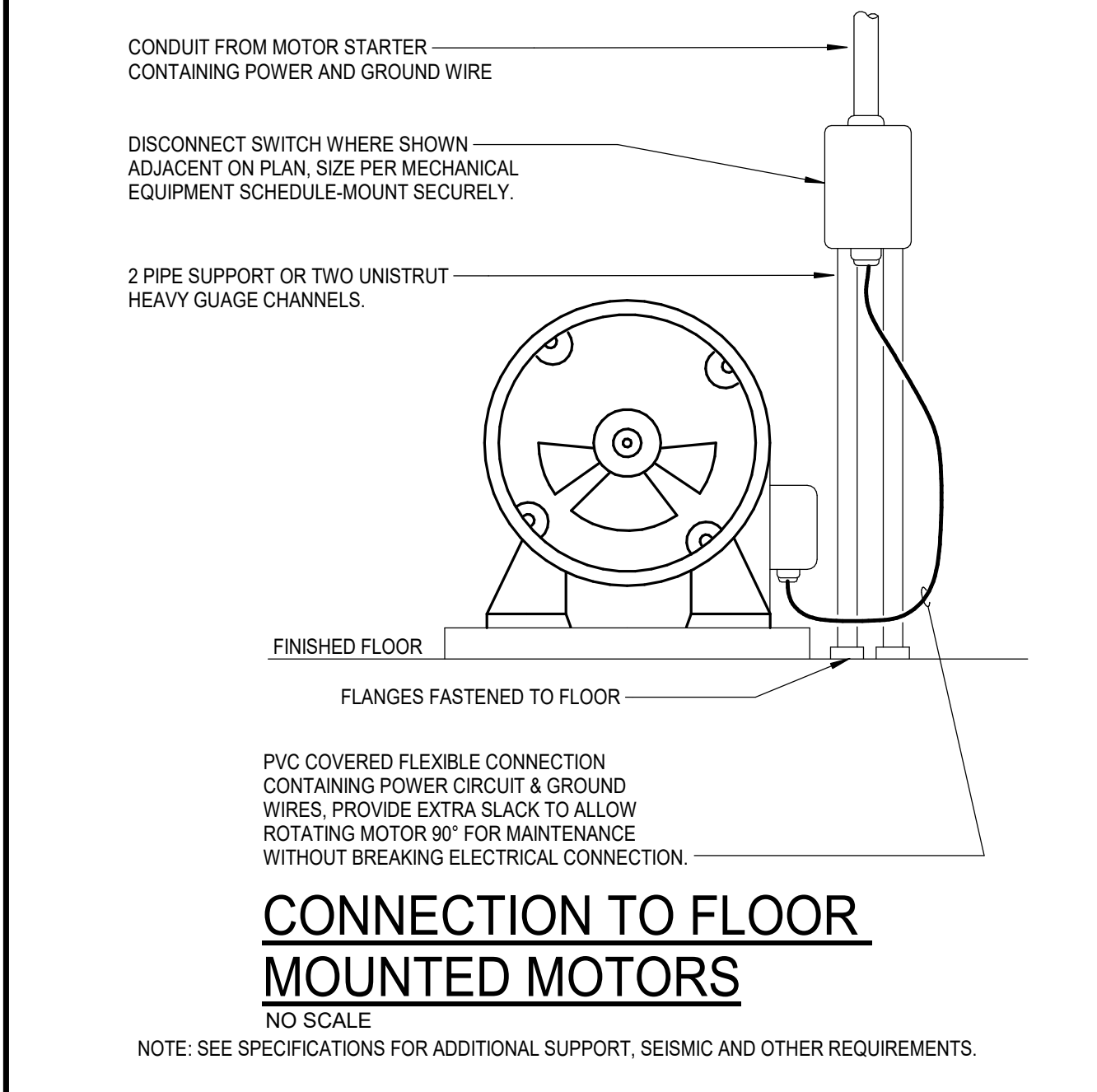
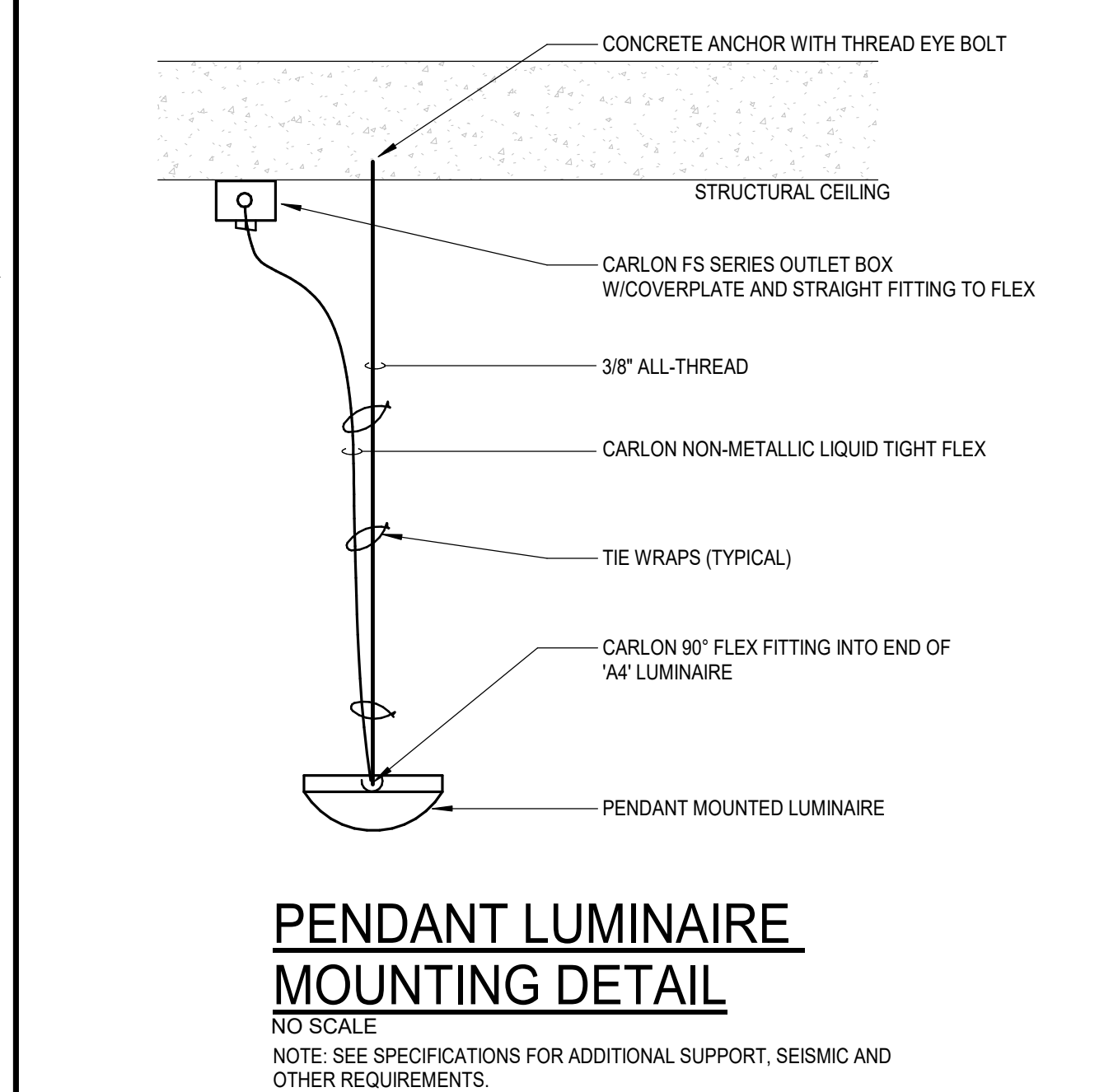
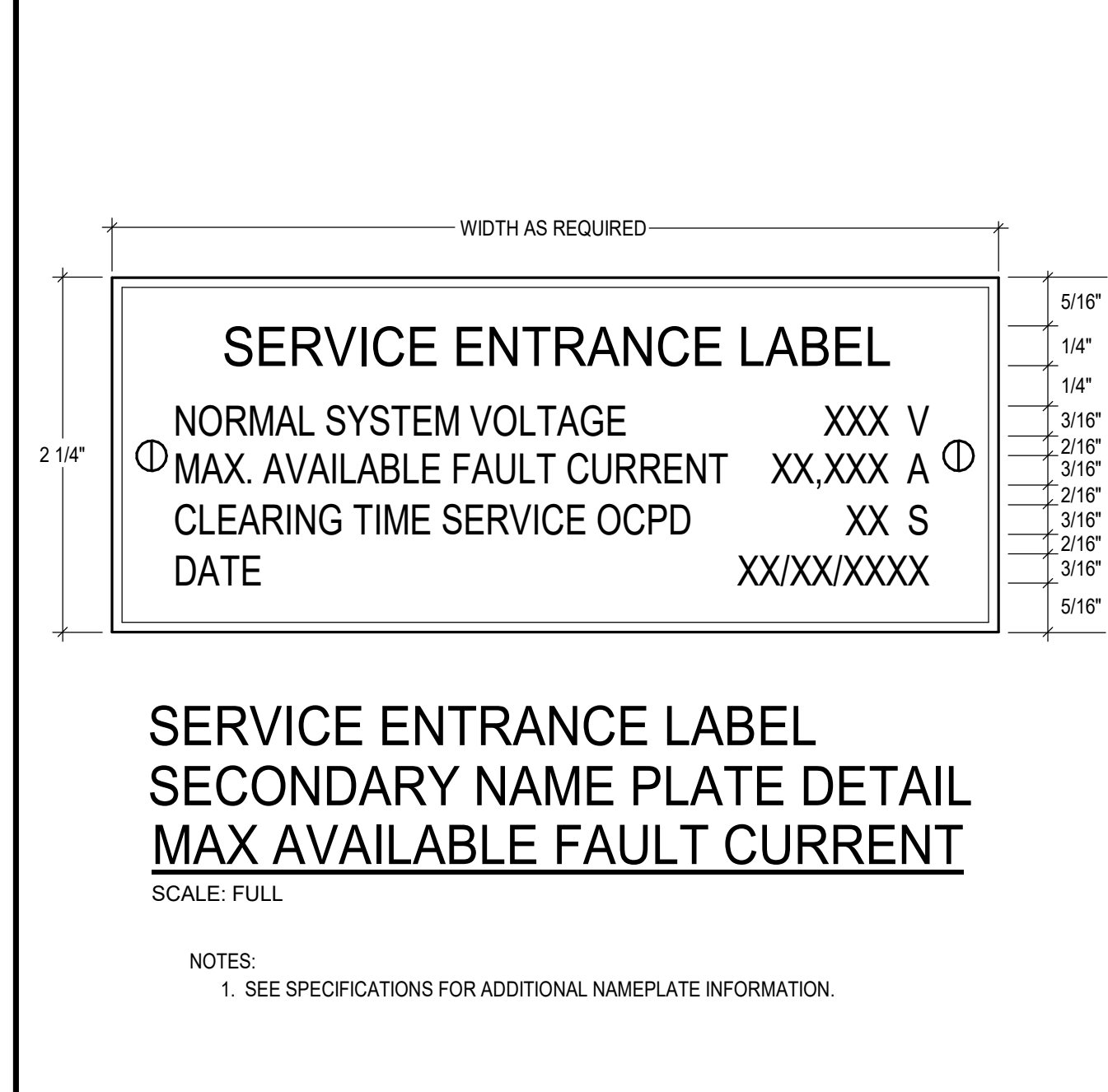
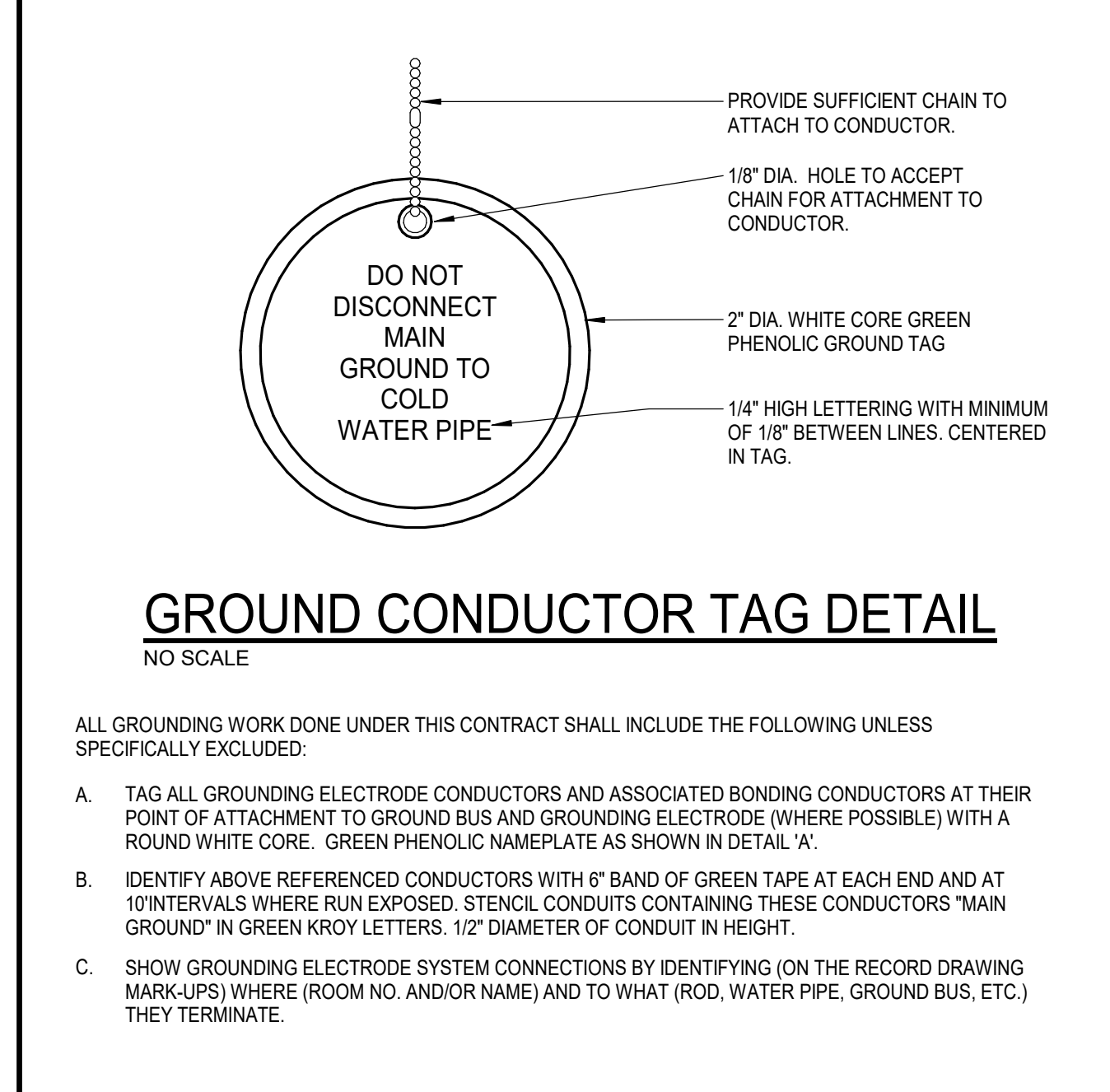
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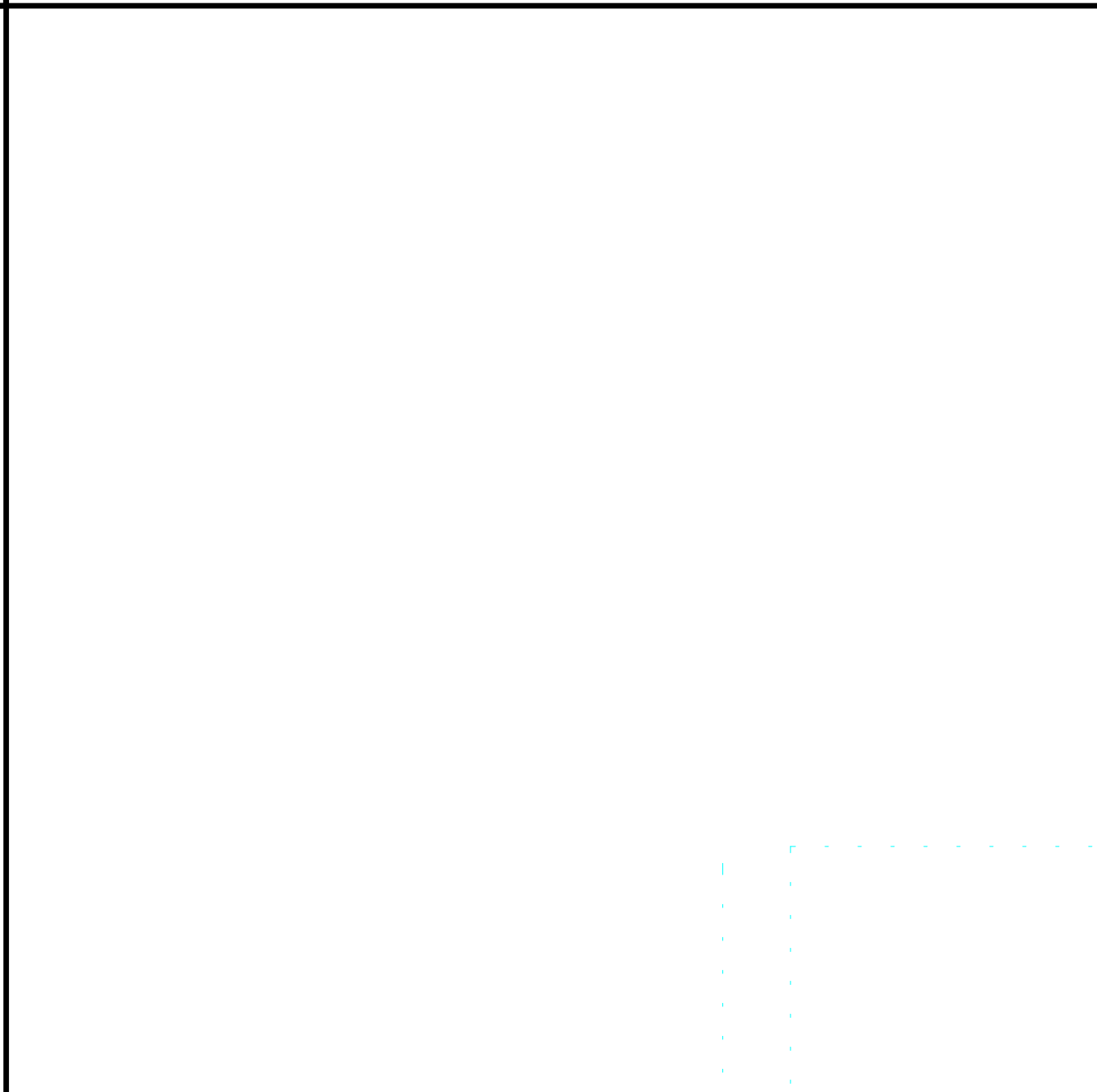
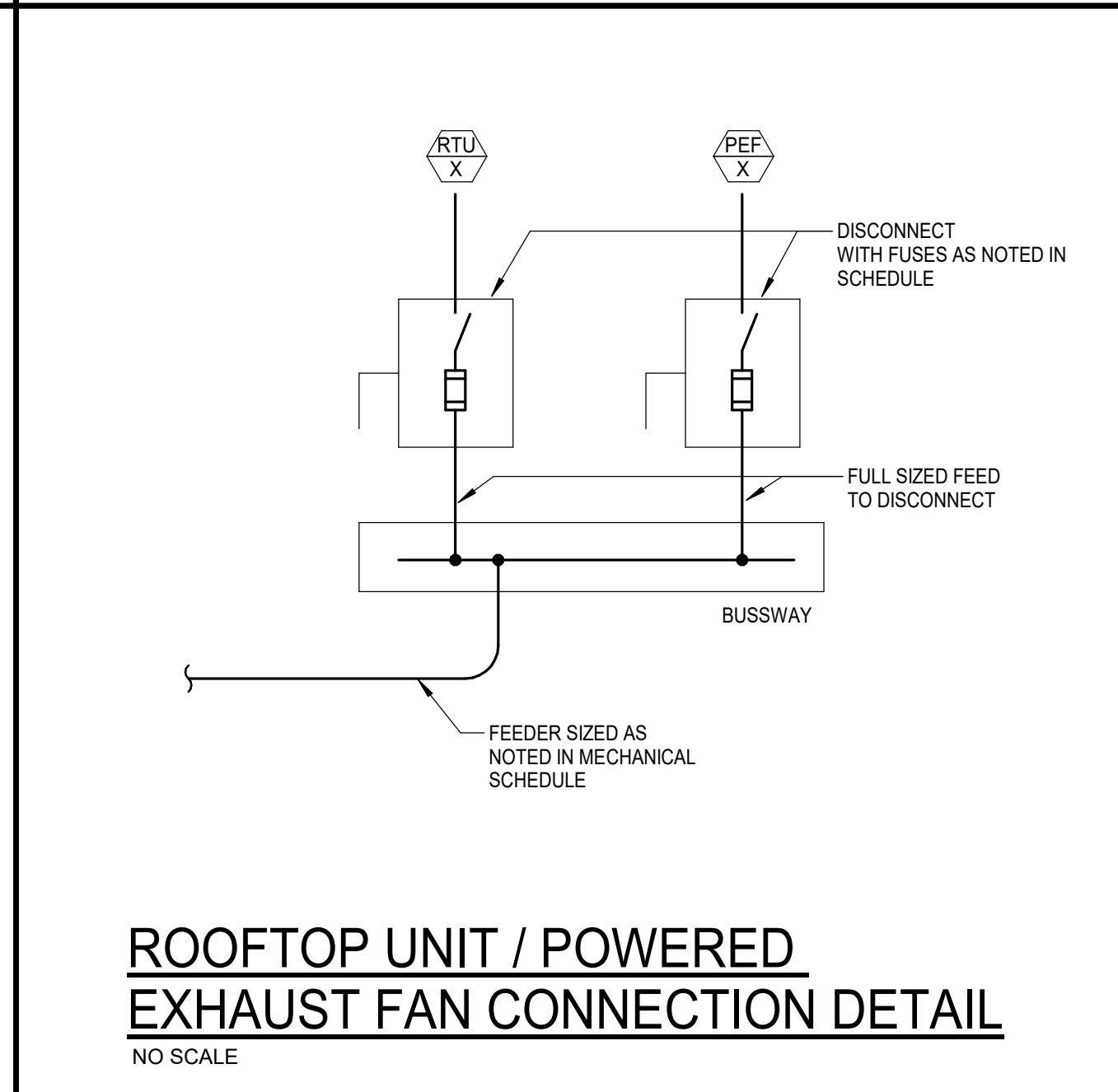
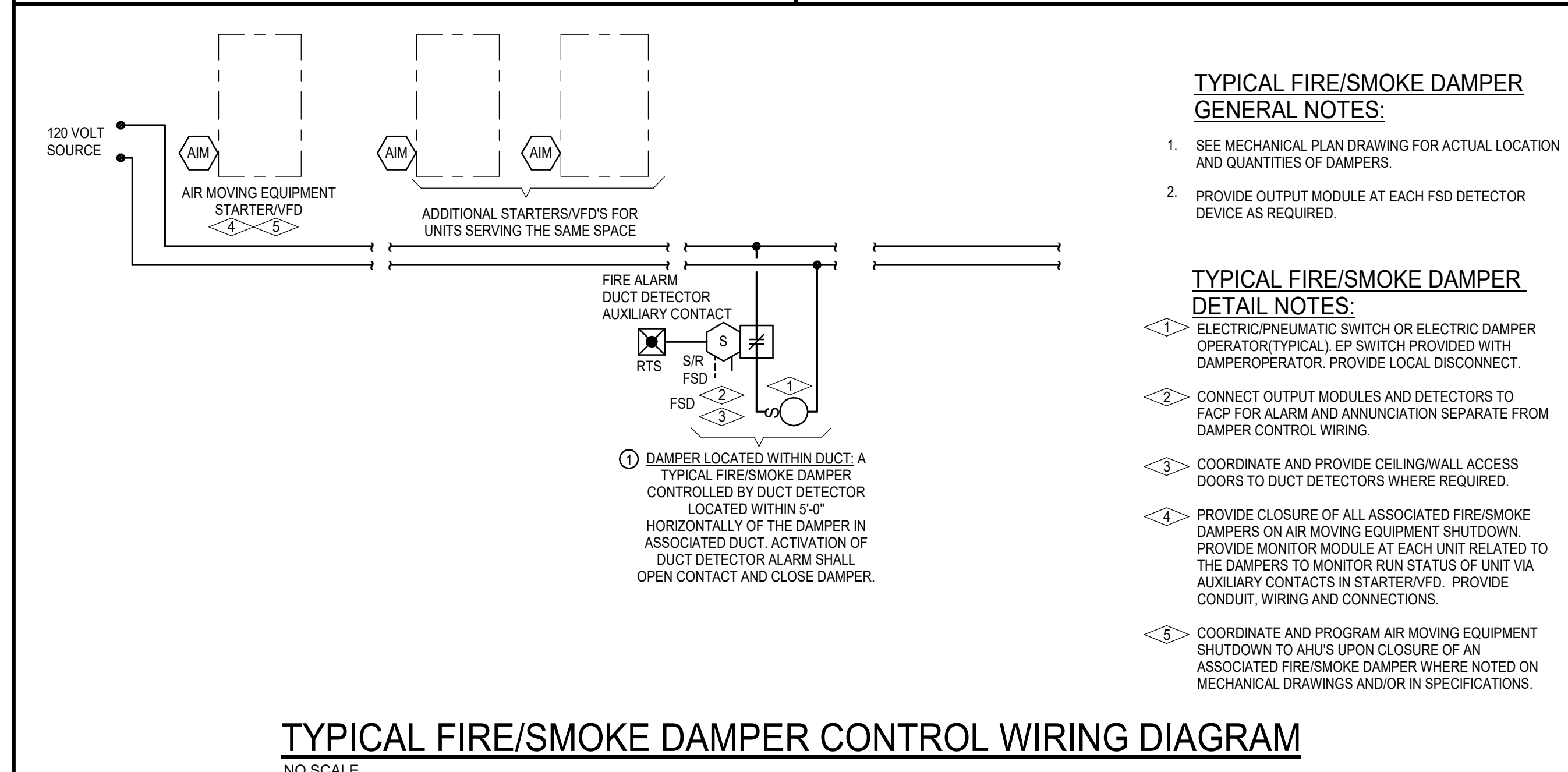
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C



D



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420 South Orchard Street, Boise, ID 83705
(208) 343-3663 • www.catorruma.com

HUMMEL ARCHITECTS
205 N. 10th Street, Suite 300, Boise, Idaho 83702, 208.343.7923
482 Constitution Way, Suite 101, Idaho Falls, ID 83402, 208.343.7923
hummelarch.com

Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
238 BUHAL ST N
TWIN FALLS, ID 83301

Sheet:
ELECTRICAL DETAILS

Revisions: △

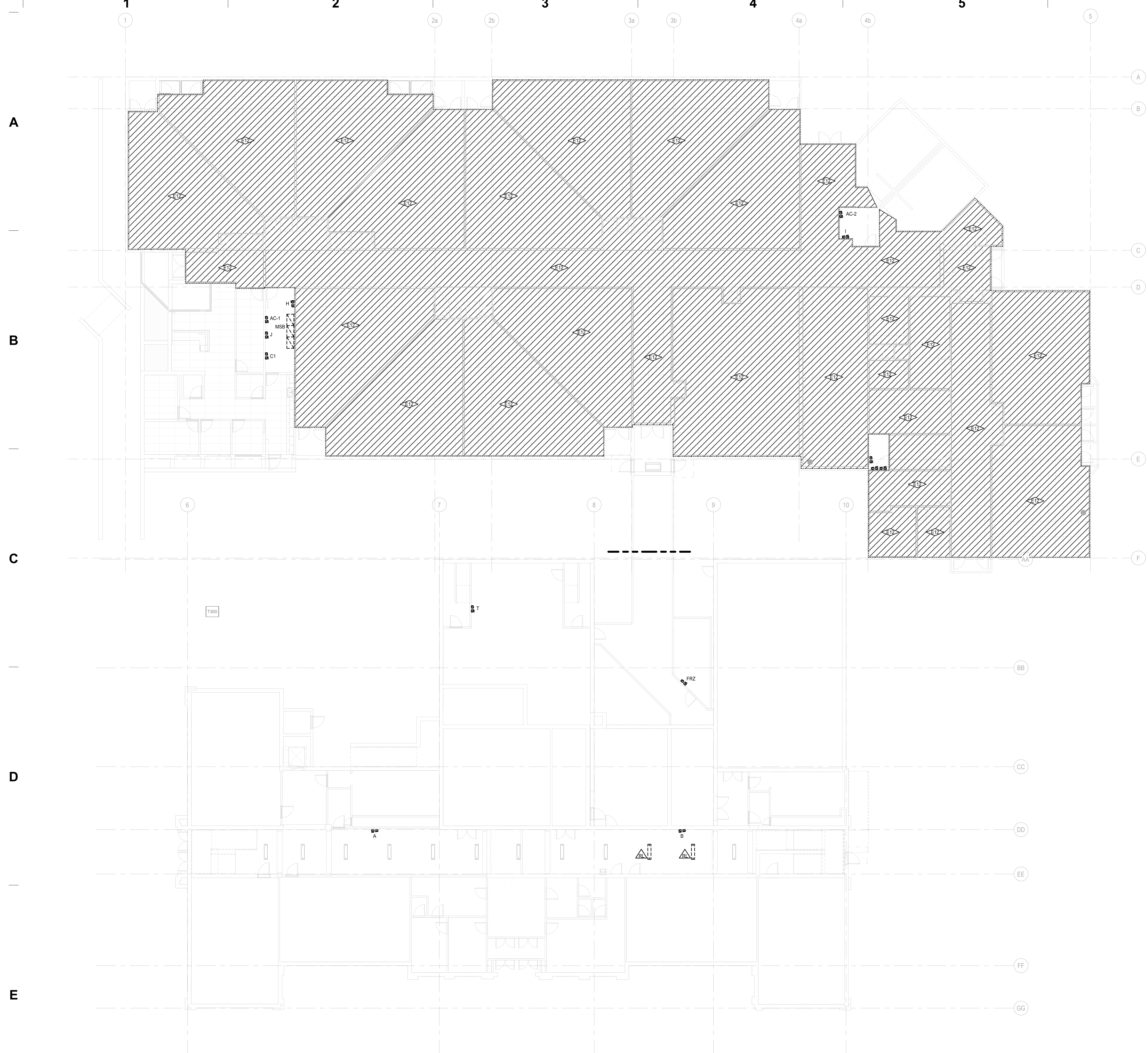
PROFESSIONAL ENGINEER
KYLE E. OLSON
17703
02/27/2025
STATE OF IDAHO
Electrical

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 02/27/2025

Sheet No: E5.01

BID SET

6 KEYNOTES	
E12	EXISTING LUMINAIRES TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR REUSE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.



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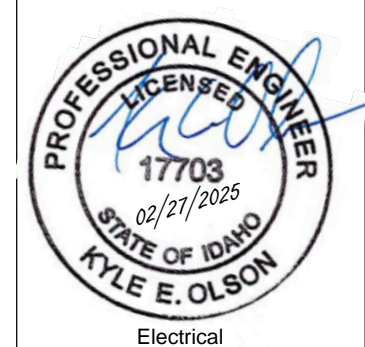
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Project:
 TFS DISTRICT WIDE HVAC
 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 01 - COMPOSITE
 LIGHTING DEMOLITION PLAN

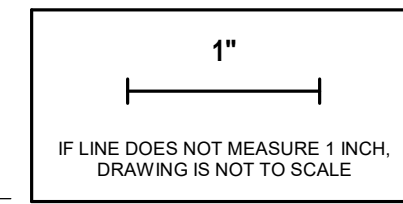
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ED2.01



LEVEL 01 - COMPOSITE LIGHTING DEMOLITION PLAN
 SCALE: 1" = 10'-0"

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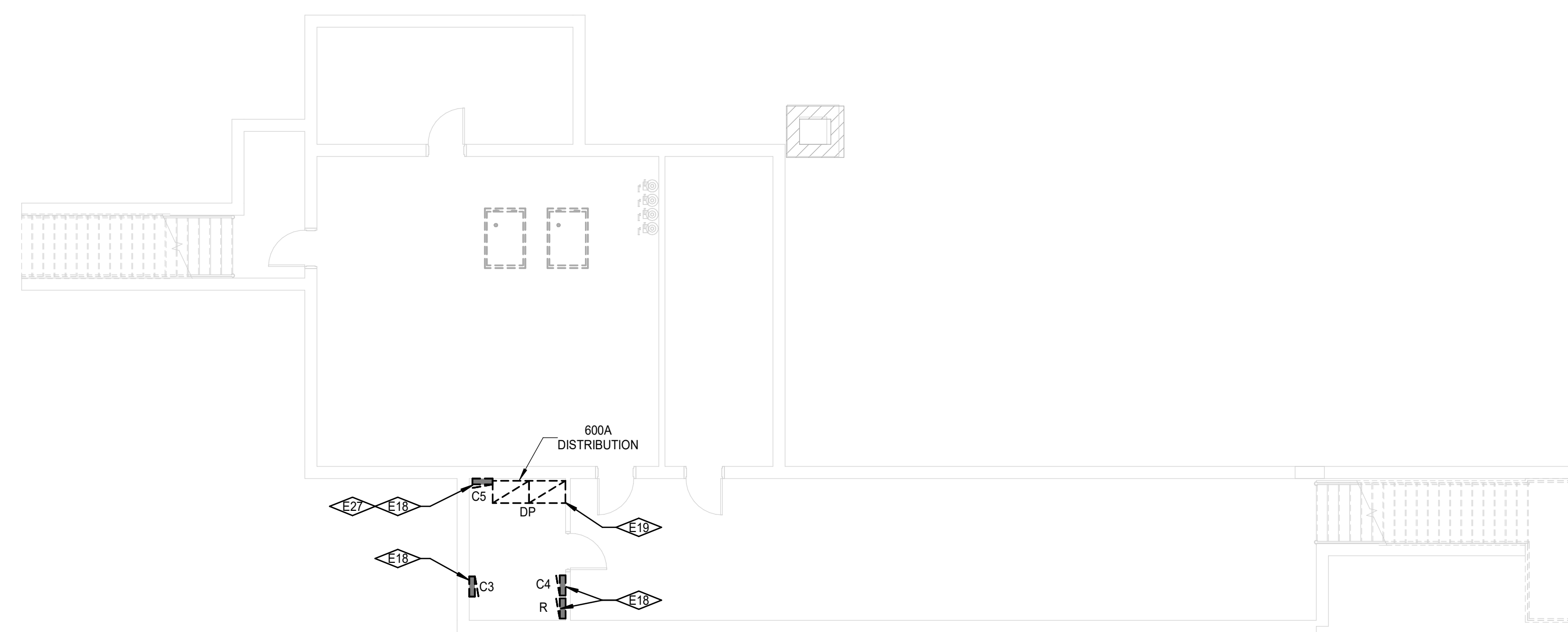
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KEYNOTES

E18	BID ALT. EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR REUSE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK. PROVIDE HANDLE TIES OR MULTIPOLE BREAKERS WHERE EXISTING BRANCH CIRCUITS SHARE NEUTRALS.
E19	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR REUSE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.
E27	PANEL NAME FOR INFORMATION ONLY. EXISTING PANEL IS NOT NAMED.



BASEMENT - COMPOSITE POWER DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

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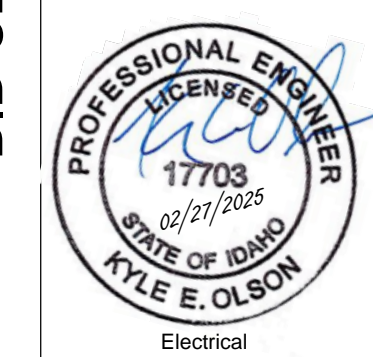
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 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
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Sheet:
 BASEMENT - COMPOSITE
 POWER DEMOLITION PLAN

BID SET

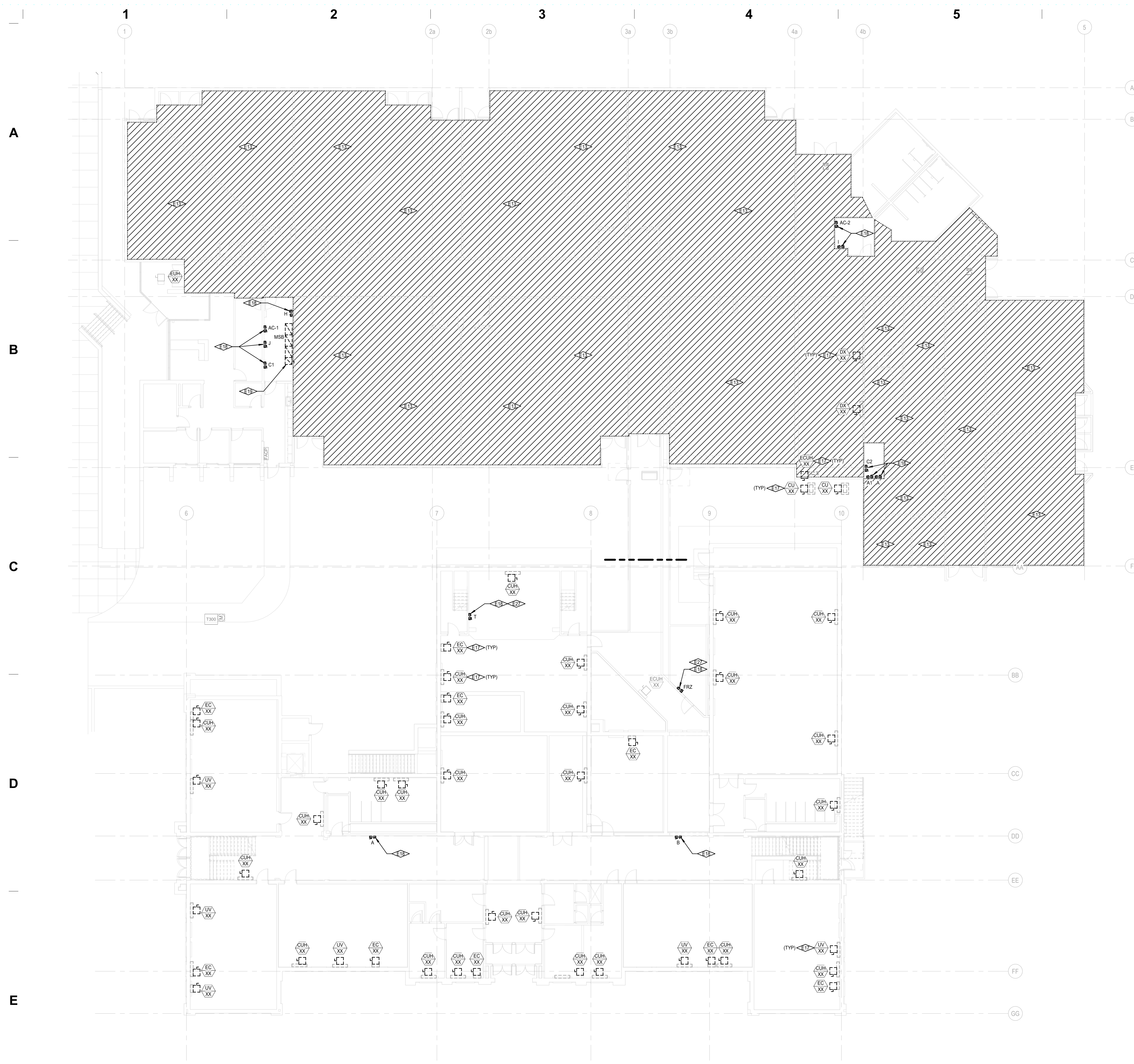


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Project No: 23028
 Drawn By: JS
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 Date: 02/27/2025

Sheet No:
ED2.10

1"
 IF LINE DOES NOT MEASURE 1" ON
 DRAWING IS NOT TO SCALE.



KEYNOTES	
E15	EXISTING CEILING IN THIS ROOM TO BE REMOVED THROUGH DEMO. REMOVE ALL CEILING MOUNTED POWER, FIRE ALARM AND LOW VOLTAGE OUTLETS. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.
E17	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. IF BID ALTERNATE IS NOT ACCEPTED, DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKER TO OFF POSITION AND RE-LABEL AS SPARE. OTHERWISE, DEMO AS INDICATED.
E18	BID ALT. EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK. PROVIDE HANDLE TIES OR MULTIPOLE BREAKERS WHERE EXISTING BRANCH CIRCUITS SHARE NEUTRALS.
E19	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.
E27	PANEL NAME FOR INFORMATION ONLY. EXISTING PANEL IS NOT NAMED.

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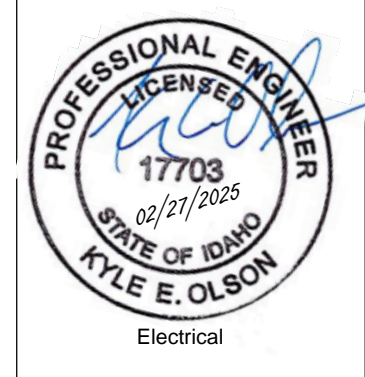
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 TFSD DISTRICT WIDE HVAC REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
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Sheet:
 LEVEL 01 - COMPOSITE POWER DEMOLITION PLAN

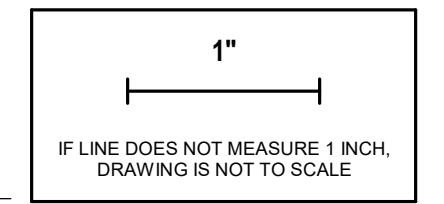
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LEVEL 01 - COMPOSITE POWER DEMOLITION PLAN
 SCALE: 1" = 10'-0"

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KEYNOTES

E8	EXISTING CEILING FAN TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL.
E17	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. IF BID ALTERNATE IS NOT ACCEPTED, DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKER TO OFF POSITION AND RE-LABEL AS SPARE. OTHERWISE, DEMO AS INDICATED.

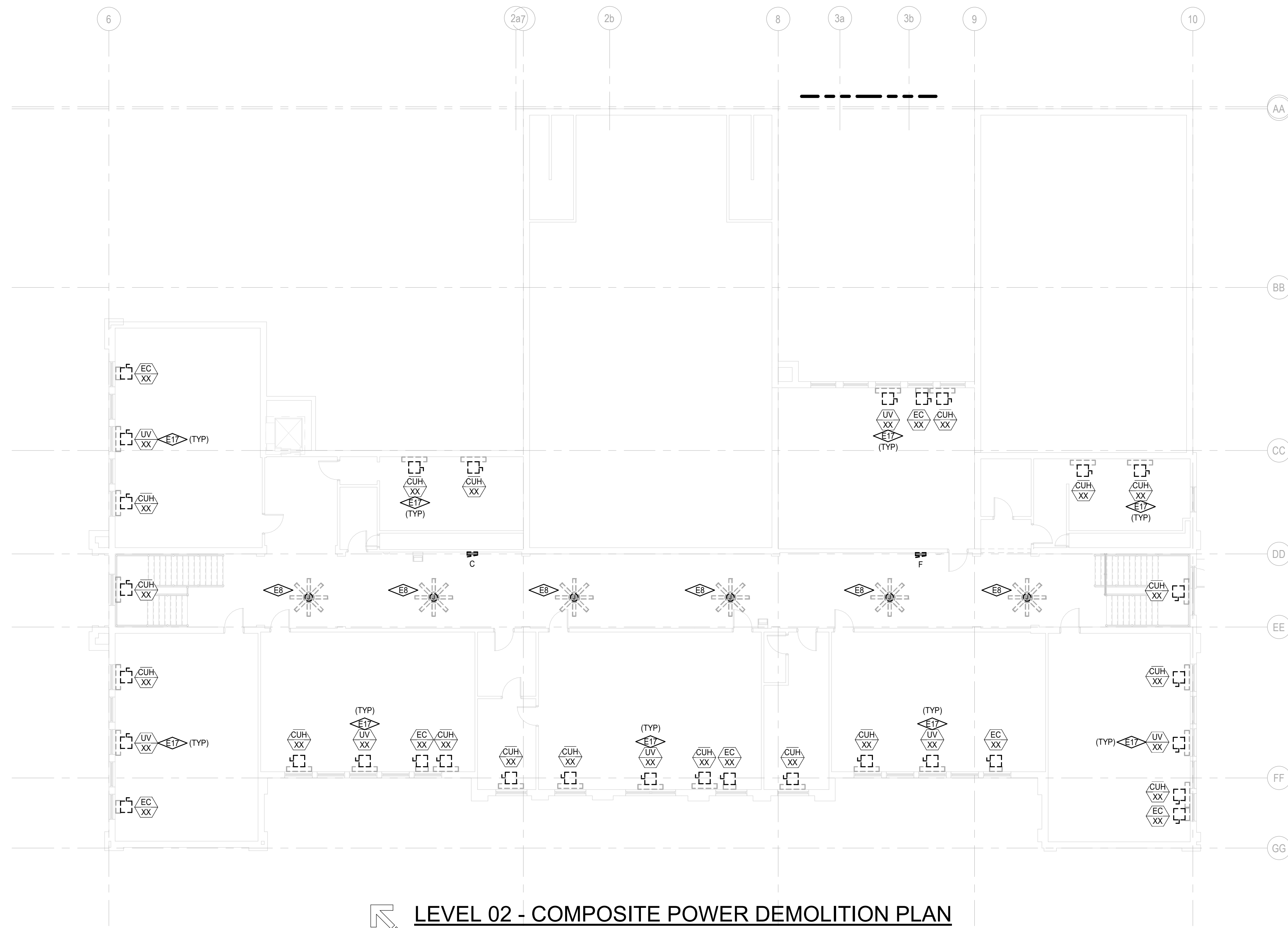
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LEVEL 02 - COMPOSITE POWER DEMOLITION PLAN
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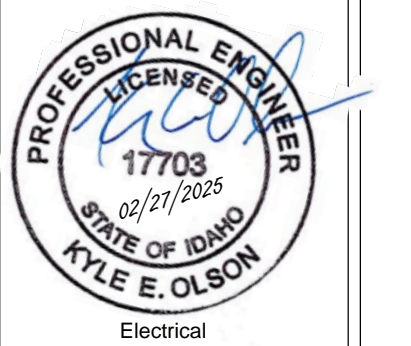
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 REPLACEMENT

LINCOLN ELEMENTARY SCHOOL
 238 BUHAL ST N
 TWIN FALLS, ID 83301

Sheet:
 LEVEL 02 - COMPOSITE
 POWER DEMOLITION PLAN

BID SET



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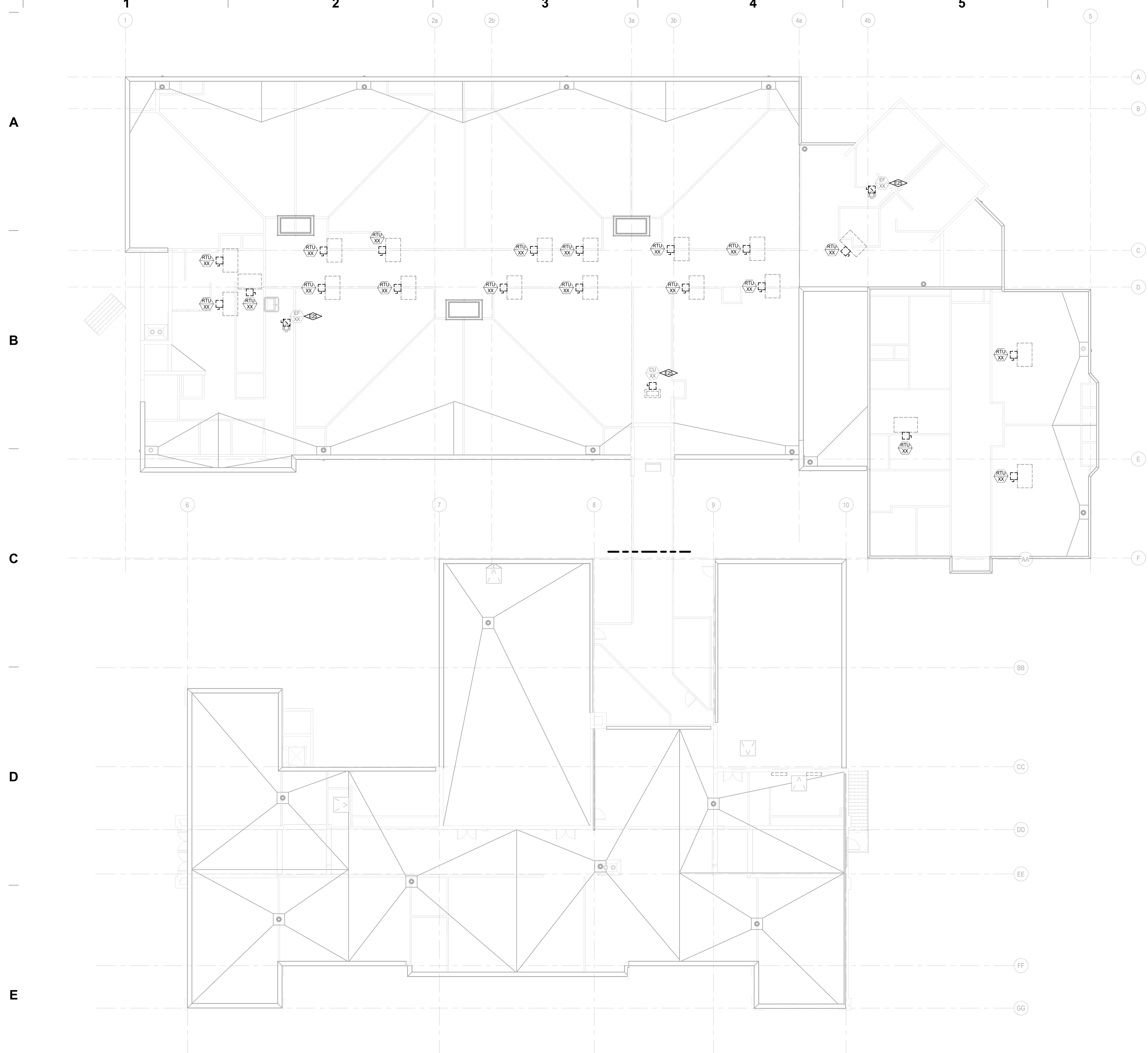
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1"
 # LINE DOES NOT MEASURE 1" ON
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6 KEYNOTES	
E25	REINSTALL EXISTING ELECTRICAL CONNECTION TO FEED REINSTALLED MECHANICAL EQUIPMENT.



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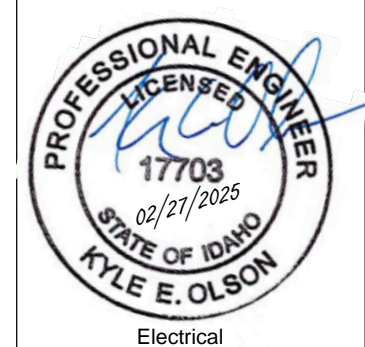
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Project:
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