

PROJECT:

HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT

Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

CLIENT:

TWIN FALLS SCHOOL DISTRICT #411

201 MAIN AVE.
 TWIN FALLS, IDAHO 83301

H U M M E L
 ARCHITECTS

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CONSULTANTS:

STRUCTURAL ENGINEER
 KPFF

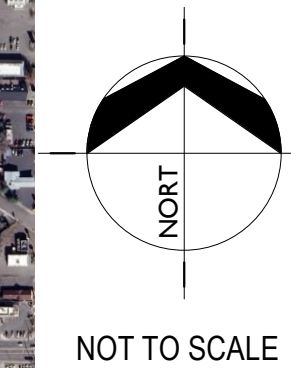
MECHANICAL AND ELECTRICAL ENGINEER
 CATOR RUMA & ASSOCIATES CO

DRAWING SET:

ARCHITECTURAL
 STRUCTURAL
 MECHANICAL
 ELECTRICAL

VICINITY MAP:

H.A. - JOB # 24075



NOT TO SCALE

100% CD



100% CD - 01/15/2025

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INTERIOR ELEVATIONS
 SHEET NUMBER
 DETAIL NUMBER

DETAIL REFERENCE
 DETAIL NUMBER
 SHEET NUMBER

EXTERIOR ELEVATION REFERENCE
 DETAIL NUMBER
 SHEET NUMBER

WALL SECTION REFERENCE
 DETAIL NUMBER
 SHEET NUMBER

BUILDING SECTION REFERENCE
 DETAIL NUMBER
 SHEET NUMBER

DETAIL REFERENCE
 DETAIL NUMBER
 SHEET NUMBER

ROOM DESIGNATION (FLOOR PLAN)
 ROOM NAME
 ROOM NUMBER

ROOM DESIGNATION (REFLECTED CEILING)
 ROOM NAME
 ROOM NUMBER
 CEILING HEIGHT ABOVE FINISH FLOOR

ELEVATION SYMBOL
 ELEVATION DESCRIPTION
 ELEVATION ABOVE DATUM

WALL TYPE DESIGNATION
 WALL TYPE

DOOR DESIGNATION
 DOOR NUMBER

WINDOW DESIGNATION
 WINDOW TYPE

KEYED NOTE DESIGNATION
 KEY NOTE NUMBER

REFERENCE NOTE DESIGNATION
 REFERENCE NOTE NUMBER

EQUIPMENT DESIGNATION
 EQUIPMENT DESCRIPTION
 EQUIPMENT NUMBER

MATERIAL TYPE DESIGNATION
 SEE AWS FINISH LEGEND

FINISH NUMBER

CENTER LINE SYMBOL

BREAK LINE

ROUND BREAK LINE

NORTH ARROW
 PLAN NORTH
 TRUE NORTH

MATCH LINE
 MATCH LINE TAG
 SEE AX-XX

EXISTING WALL TO REMAIN

WALL TO BE DEMOLISHED

NEW WALL

GRAPHIC SCALES

CASEWORK TYPE DESIGNATION
 AWS STANDARD CDS NUMBERING SYSTEM

WIDTH
 MODIFICATION DESCRIPTION
 TYP (#)

DEPTH
 HEIGHT

INDICATES NUMBER OF SIM.
 ADJACENT MILLWORK

SLOPE INDICATION
 RISE

RUN

REVISION DESIGNATION
 REVISION NUMBER
 REVISION CLOUD

ABBREVIATIONS:

#	NUMBER OR POUND	JAN	JANITOR
A	ANGLE	JST	JOIST
AT	AT	JT	JOINT
CL	CENTERLINE	LAB	LABORATORY
CL	CENTERLINE	LAM	LAMINATE
AB	ANCHOR BOLT	LAV	LAVATORY
ACP	ACOUSTICAL CEILING PANEL	LVT	LUXURY VINYL TILE
ACT	ACOUSTICAL CEILING TILE	LWT	LOWER WALL GUARD
ADJ	ADJUSTABLE	MAT	MATERIAL
AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
ALUM	ALUMINUM	MCB	METAL COVE BASE
ANOD	ANODIZED	MECH	MECHANICAL
APPROX	APPROXIMATE	MET	METAL
ASFP	ABRASIVE SURFACE FLOOR PLATE	MFR	MANUFACTURER
ASSOC	ASSOCIATED	MIN	MISCELLANEOUS
AWP	ACOUSTICAL WALL PANEL	MISC	MISCELLANEOUS
AWS	ACOUSTICAL WALL SYSTEM	ML	MASONRY LINE
		MO	MASONRY OPENING
		MTD	MOUNTED
		MTG	MOUNTING
BD	BOARD	NA	NOT APPLICABLE
BFC	BROOM FINISH CONCRETE	NB	NO BASE EXPOSED
BLDG	BUILDING	NO	NO BASE (EXPOSED WALL OR FOUNDATION)
BLDG	BUILDING	NC	NEW CONCRETE
BM	BEAM	NIC	NOT IN CONTRACT
BO	BOTTOM OF	NM	NEW MASONRY
BOT	BOTTOM	NO	NO
BRG	BEARING	NOM	NOMINAL
BSMT	BASEMENT	NTS	NOT TO SCALE
BTWN	BETWEEN		
CAB	CABINET	OC	ON CENTER
C.I.P.	CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	OFF	OFFICE
CL	CENTERLINE	OFI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CLG	CEILING	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CMU	CONCRETE MASONRY UNITS	OFOI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CO	CLEAN OUT	OPNG	OPENING
COL	COLUMN	OTA	OPEN TO ABOVE
CONC	CONCRETE	OTS	OPEN TO STRUCTURE OVERFLOW
CONST	CONSTRUCT	P	PAINT
CONT	CONTINUOUS	PC	PAINT COLOR
CPT	CARPET	PFT	PORCELAM FLOOR TILE
CSK	COUNTERSINK	P.I.V.	POST INDICATOR VALVE
CMT	CERAMIC MOSAIC TILE	PL	PLASTIC LAMINATE
CQT	CERAMIC QUARRY TILE	PLA	PLASTIC
CWB	CERAMIC WALL BASE	PLYWD	PLYWOOD
		POLY	POLY-RESINOUS FLOORING
		PR	PAIR
		PWT	PORCELAM WALL TILE
		R	THERMAL RESISTANCE
		RCP	REFLECTED CEILING PLAN
		RD	ROOF DRAIN
		REL	RAIN DRAIN LEADER
		RE	REFERENCE
		REFRIG	REFRIGERATOR
		REFIN	REFINISHING
		REQ	REQUIRED
		RFT	RUBBER FLOOR TILE
		RM	ROOM
		RMA	RESILIENT MOLDING ACC
		RO	ROUGH OPENING
		RST	RUBBER STAIR TREADS
		RSV	RIGID SHEET VINYL
		RUB	RUBBER SHEET FLOORING
		RW	REDWOOD
		RWB	RUBBER WALL BASE
		RWC	RAIN WATER CONDUCTOR
		SC	SEALED CONCRETE
		SCHED	SCHEDULE
		SCH	SOLID CORE WOOD
		SGWB	SUSPENDED GYPSUM WALL BOARD
		SHT	SHEET
		SHTG	SHEATHING
		SIM	SIMILAR
		SPECS	SPECIFICATIONS
		SQ	SQUARE
		SS	STAINLESS STEEL
		SSC	STAINLESS STEEL COUNTERTOP
		STD	STANDARD
		STL	STEEL
		STOR	STORAGE
		STRUCT	STRUCTURAL
		SUSP	SUSPENDED
		SV	SHEET VINYL
		T&G	TONGUE AND GROOVE
		TEMP	TEMPORARY
		TO	TOP OF
		TOM	TOP OF MASONRY
		TS	TUBE STEEL
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		UWG	UPPER WALL GUARD
		VAR	VARIES
		VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
		VEST	VESTIBULE
		WI	WITH
		WC	WATER CLOSET
		WD	WOOD
		WDP	WOOD PLANKS
		WF	WALL FABRIC
		WH	WATER HEATER
		WM	WALK-OFF MAT
		WID	WITH OUT
		WP	WATERPROOF
		WRGB	WATER RESISTANT GYPSUM BOARD
		WS	WINDOW SHADE
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

MASTER KEYNOTES:

Keynote #	Keynote Text
03300.A	CAST-IN-PLACE CONCRETE
06100.A	DIMENSIONAL LUMBER
06100.C	SHEATHING
06100.D	SHIM AS REQUIRED
06202.A	WOOD TRIM PAINT TO MATCH EXISTING
07250.A	WEATHER RESISTIVE BARRIER
07250.C	SELF ADHERED FLEXIBLE FLASHING
07250.E	LAP SELF ADHERED FLEXIBLE FLASHING OVER EXISTING AND NEW WEATHER BARRIER
07250.E	FORMED METAL WALL PANELS
074213.13.A	EXPOSED FASTENER LAP SEAM METAL WALL PANEL
074213.A	THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
07423.B	TPO SHEET FLASHING
07423.E	ROOF INSULATION
07423.J	TERMINATION BAR
07423.J	FASTENER AND PLATE
07423.K	FLEXIBLE WALKWAY
07423.L	ROOFING MANUFACTURER'S RECOMMENDED SEALANT
07423.O	MANUFACTURED ROOF PAD
07620.A	PARAPET COPING
07620.E	FLASHING AND DRIP EDGE
07620.G	PROVIDE NEW COUNTERFLASHING IN EXISTING LOCATION
07620.J	DOWNSPOUT
07620.K	OVERFLOW SCUPPER. SEE DETAIL C1/A2.92
07620.L	GUTTER STRAP
07620.M	CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL
07620.P	DRIP EDGE
07620.Z	CLEAT
07720.B	ROOF HATCH
07720.H	FALL ARREST ANCHOR. FLASH SIMILAR TO DETAIL C1/A2.91
07620.B	JOINT SEALANT
08413.B	ALUMINUM STOREFRONT FRAMING SYSTEM
08620.A	FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY
092216.E	H&S Shaped Rigid Furring Channel
PC	PAINT COLOR
09200.A	GYPSUM WALL BOARD
09200.F	METAL J BEAD
096113.C	APC-3
096113.D	2" CURBED TRIM. BASIS OF DESIGN: AXIOM VECTOR CURVED PERIMETER TRIM BY ARMSTRONG
085113.E	HANGER WIRE
085113.F	T-BAR GRID SYSTEM
085123.A	ACOUSTICAL PANEL TO BE APPLIED TO EXISTING STRUCTURE USING ADHESIVE
086113.B	CARPET INFILL TO MATCH EXISTING

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G0.02	DRAWING INFORMATION

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D2.05	AREA 'A' DEMO ROOF PLAN
D2.06	AREA 'B' DEMO ROOF PLAN
D2.08	COMPOSITE DEMO REFLECTED CEILING PLAN
D2.09	AREA 'A' DEMO REFLECTED CEILING PLAN
D2.10	AREA 'B' DEMO REFLECTED CEILING PLAN

ARCHITECTURAL

A2.01	COMPOSITE FLOOR PLAN
A2.02	AREA 'A' FLOOR PLAN
A2.03	AREA 'B' FLOOR PLAN
A2.04	COMPOSITE ROOF PLAN
A2.13	AREA 'A' ROOF PLAN
A2.14	AREA 'B' ROOF PLAN
A2.91	ROOF DETAILS
A2.92	ROOF DETAILS

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A3.10 BUILDING SECTIONS

A4.11 EXTERIOR WALL SECTIONS

A4.91 EXTERIOR & INTERIOR DETAILS

A7.01 WINDOW FRAME & DETAILS

A8.01 COMPOSITE CEILING PLAN

A8.11 AREA 'A' CEILING PLAN

A8.12 AREA 'B' CEILING PLAN

A8.91 CEILING DETAILS

STRUCTURAL

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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 ROOF FRAMING PLAN

S3.00 RETROFIT DETAILS

S3.01 RETROFIT DETAILS

S3.02 RETROFIT DETAILS

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M0.02 MECHANICAL SCHEDULES

M0.03 MECHANICAL SCHEDULES

M1.01 HVAC PLAN

M1.02 ROOF MECHANICAL PLAN

M2.11 HVAC SENSOR PLAN

M3.11 MECHANICAL CONTROLS

M5.01 MECHANICAL DETAILS

MD1.01 HVAC DEMOLITION PLAN

MD1.02 ROOF MECHANICAL DEMOLITION PLAN

MD2.11 HVAC SENSOR DEMOLITION PLAN

PLUMBING

P0.01 PLUMBING LEGENDS & NOTES

P1.01 WASTE & VENT PLAN

F-001 FIRE PROTECTION LEGENDS & NOTES

F-110 FIRE PROTECTION PLAN SERIES

ELECTRICAL

E0.01 ELECTRICAL LEGENDS & NOTES

E0.02 ELECTRICAL SCHEDULES

E0.11 ELECTRICAL ONE-LINE DIAGRAM

E1.01 POWER PLAN

E1.02 ROOF POWER PLAN

E1.10 ENLARGED LIGHTING PLANS

E2.01 LIGHTING PLAN

E2.02 ENLARGED LIGHTING PLANS

E3.01 ELECTRICAL PANEL SCHEDULES

E3.02 ELECTRICAL PANEL SCHEDULES

E4.01 ELECTRICAL DETAILS

ED1.01 POWER DEMOLITION PLAN

ED1.02 ROOF POWER DEMOLITION PLAN

ED2.01 LIGHTING 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
 1987 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS

HARRISON ELEMENTARY SCHOOL

EXISTING SCHOOL

OCCUPANT TYPE: E FULLY SPRINKLERED

PROJECT DESCRIPTION: REROOFING, HVAC & ELEC UPGRADES AND A TENANT IMPROVEMENT TO THE EXISTING CLASSROOMS AND HALLWAY CEILINGS.

OCCUPANT LOAD: UNCHANGED

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 Harrison Elementary School
 600 Harrison St.
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Sheet:
DRAWING INFORMATION

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Revisions: △

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Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No: **G0.02**

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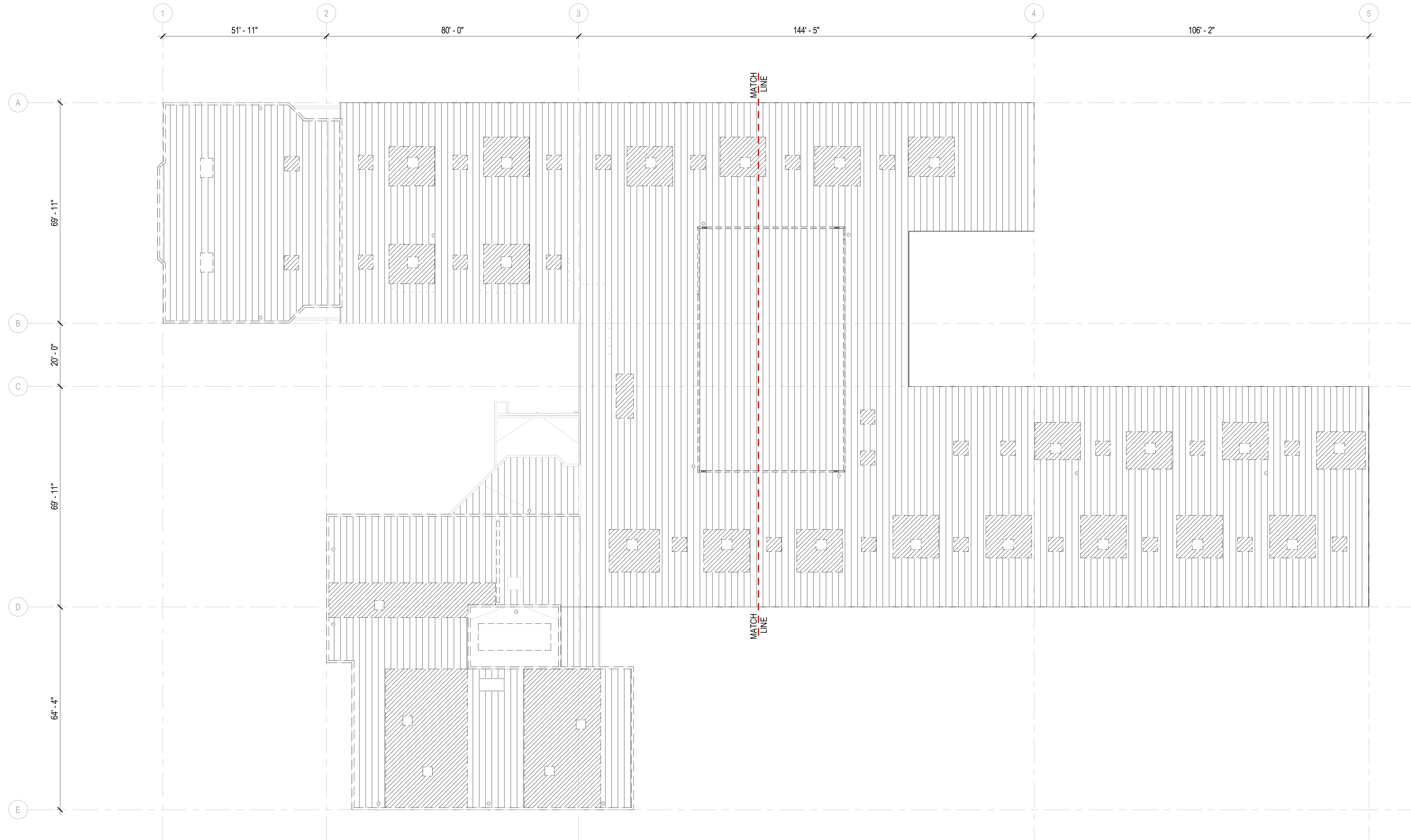
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GENERAL DEMO ROOF PLAN NOTES

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

LEGEND

- IN AREAS INDICATED EXISTING METAL ROOFING SHALL BE REMOVED. EXISTING RIGID INSULATION TO REMAIN.
- IN AREAS INDICATED EXISTING RIGID INSULATION 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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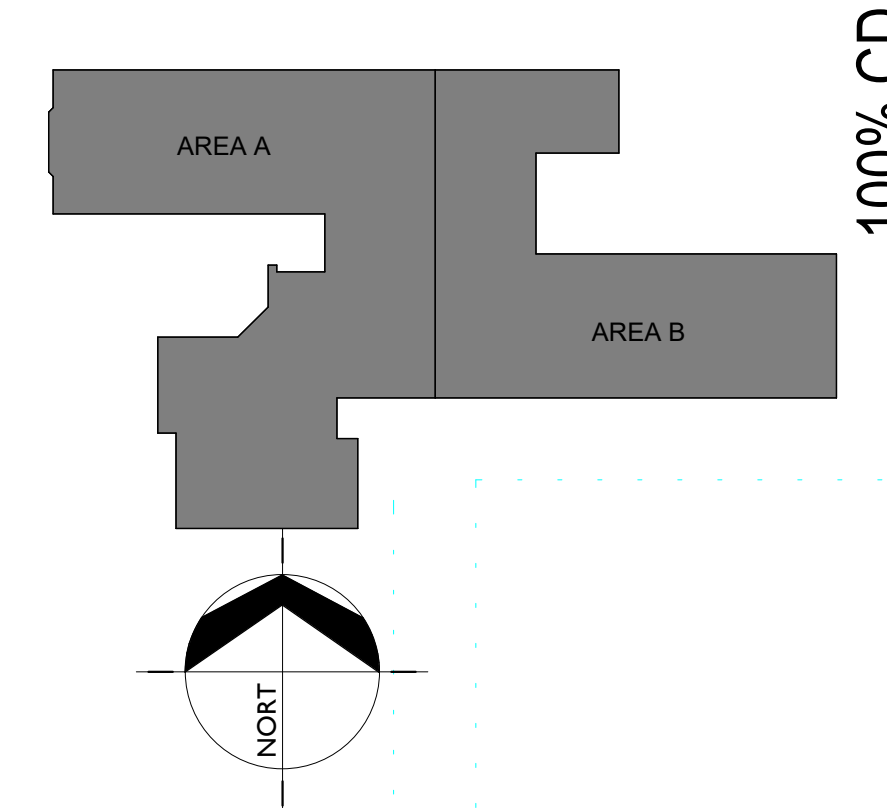
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COMPOSITE DEMO ROOF PLAN

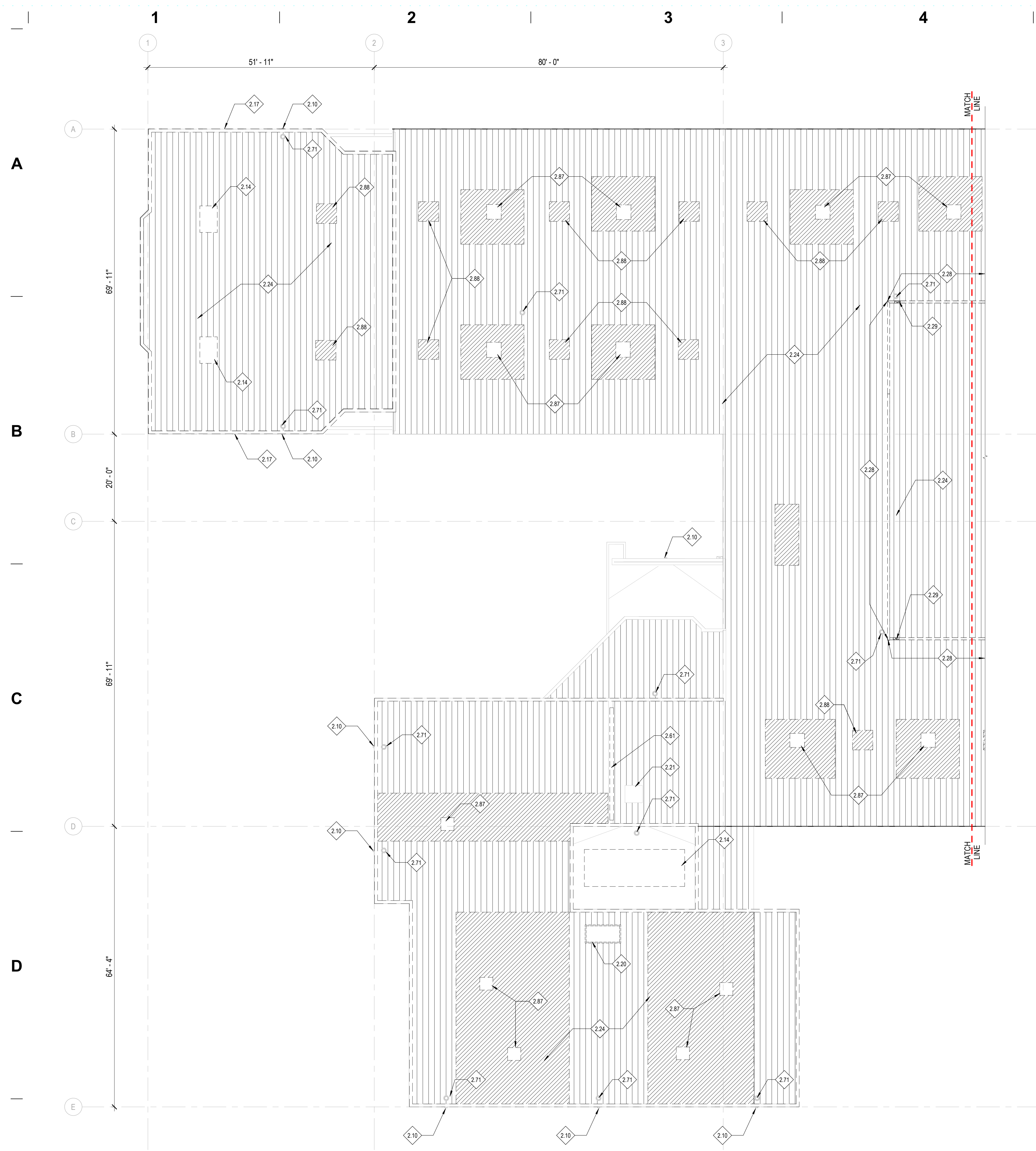
Revisions:

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
D2.04

E1 COMPOSITE DEMO ROOF PLAN
 D2.04 1/16" = 1'-0"





E1 AREA 'A' DEMO ROOF PLAN
D2.05 3/22" = 1'-0"

GENERAL DEMO ROOF PLAN 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 ITEM TO ACCOMPLISH RE-ROOF WORK. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.

KEYNOTES

REFERENCE NOTES

- EXISTING OVERFLOW SCUPPER TO BE REMOVED AND REPLACED IN SAME LOCATION.
- EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL.
- REMOVE EXISTING COPING. PREPARE FOR NEW COPING.
- DEMO EXISTING SKYLIGHT. PREPARE FOR INFILL.
- DEMO EXISTING ROOF HATCH. PREPARE FOR NEW HATCH.
- EXISTING METAL ROOFING SYSTEM TO BE REMOVED COMPLETELY. DOWN TO RIGID INSULATION. INCLUDING ANY ASSOCIATED METAL TRIMS. PREPARE FOR NEW TPO ROOF MEMBRANE.
- DEMO EXISTING GUTTER.
- DEMO EXISTING DOWNSPOUT.
- REMOVE EXISTING WINDOW SYSTEM. PROVIDE NEW CLEARSTORY WINDOW. RE SHEET AT 01.
- EXISTING ROOF DRAIN TO BE REMOVED AND PREPARED FOR NEW ROOF DRAIN. SEE PLUMBING DRAWINGS.
- TYP. EXISTING EVAPORATIVE COOLING UNIT TO BE REMOVED. REMOVE EXISTING RIGID INSULATION AS REQUIRED FOR STRUCTURAL MODIFICATIONS. SEE STRUCTURAL DRAWINGS.
- TYP. EXISTING SKYLIGHT AND CURB TO BE REMOVED AND INFILLED AS REQUIRED. SEE STRUCTURAL DRAWINGS. PREP AREA FOR NEW RIGID INSULATION AND ROOFING SYSTEM.

LEGEND

- IN AREAS INDICATED EXISTING METAL ROOFING SHALL BE REMOVED. EXISTING RIGID INSULATION TO REMAIN.
- IN AREAS INDICATED EXISTING RIGID INSULATION 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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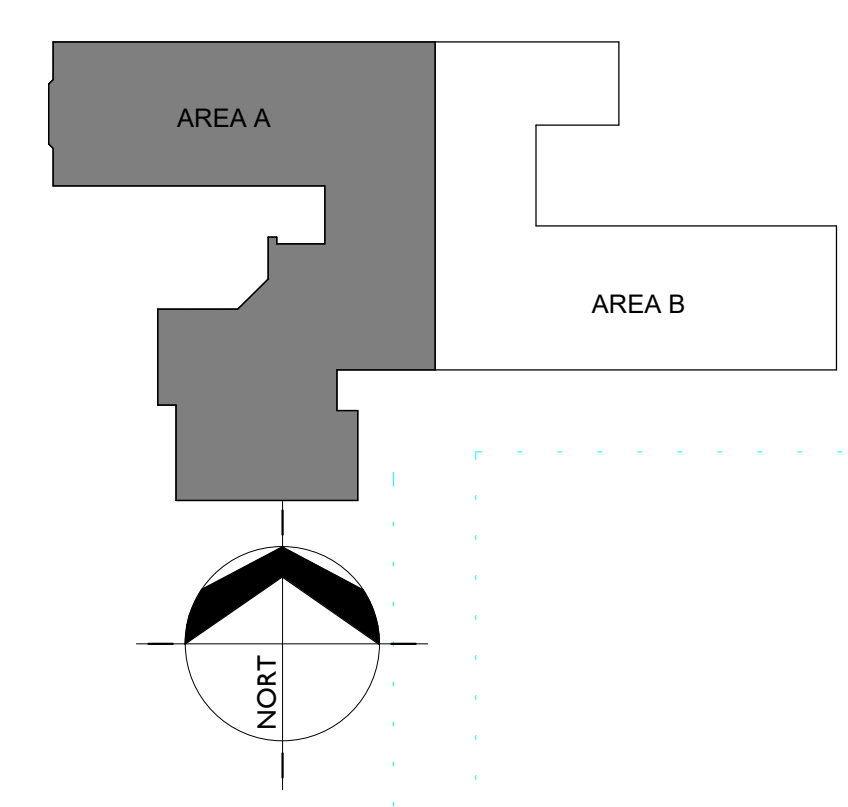
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AREA 'A' DEMO ROOF PLAN

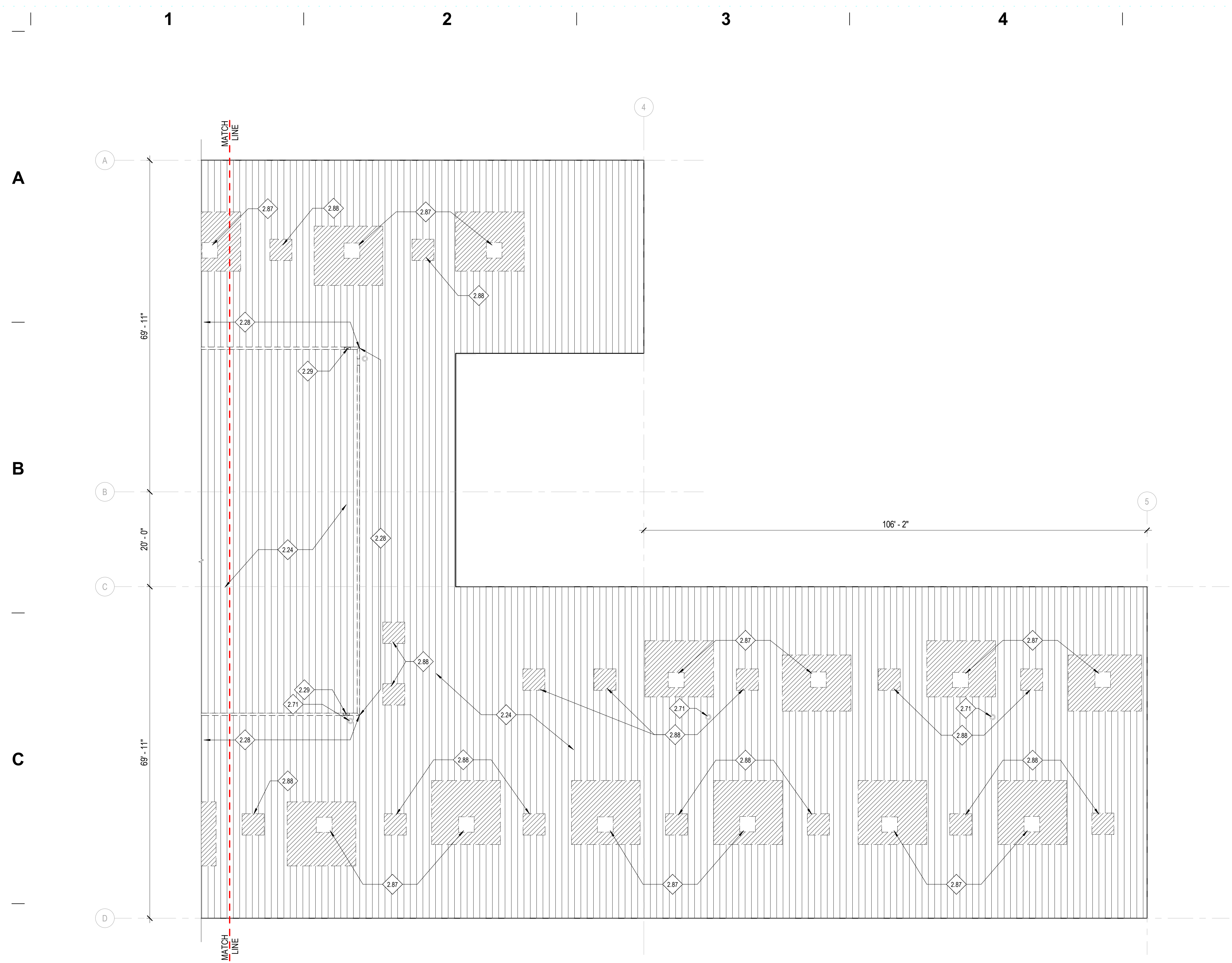
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PROFESSIONAL ARCHITECT
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 BRIAN F. COLEMAN

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 Checked By: PR
 Date: 01/15/2025

Sheet No:
D2.05





D1 AREA 'B' DEMO ROOF PLAN
D2.06 3/2" = 1'-0"

GENERAL DEMO ROOF PLAN NOTES

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

KEYNOTES

REFERENCE NOTES

- 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.
- 2.28 DEMO EXISTING GUTTER
- 2.29 DEMO EXISTING DOWNSPOUT
- 2.71 EXISTING ROOF DRAIN TO BE REMOVED AND PREPARED FOR NEW ROOF DRAIN. SEE PLUMBING DRAWINGS.
- 2.87 TYP. EXISTING EVAPORATIVE COOLING UNIT TO BE REMOVED. REMOVE EXISTING RIGID INSULATION AS REQUIRED FOR STRUCTURAL MODIFICATIONS. SEE STRUCTURAL DRAWINGS.
- 2.88 TYP. EXISTING SKYLIGHT AND CURB TO BE REMOVED AND FILLED AS REQUIRED. SEE STRUCTURAL DRAWINGS. PREP AREA FOR NEW RIGID INSULATION AND ROOFING SYSTEM.

LEGEND

- IN AREAS INDICATED EXISTING METAL ROOFING SHALL BE REMOVED. EXISTING RIGID INSULATION TO REMAIN.
- IN AREAS INDICATED EXISTING RIGID INSULATION 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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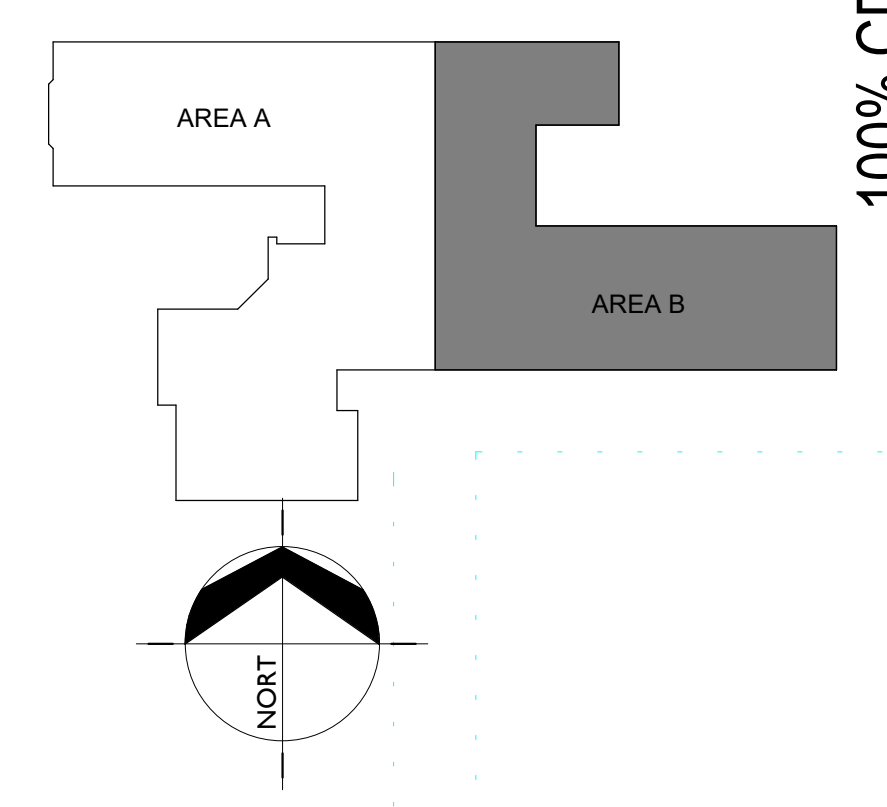
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 AREA 'B' DEMO ROOF PLAN

Revisions:

Project No: 24075
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
D2.06



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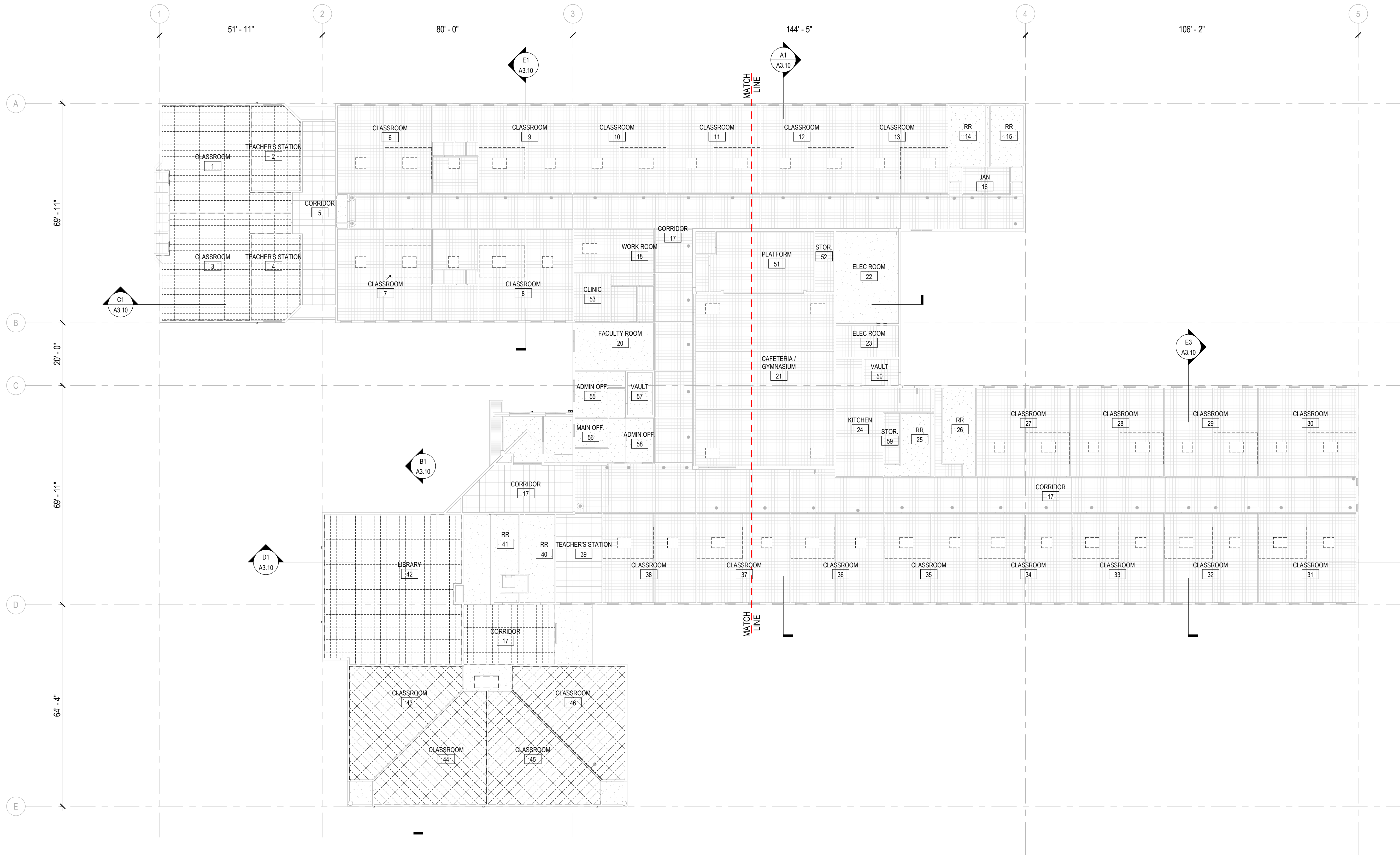
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GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALL/PARTITIONS.
- 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, PROJECTS 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.
- FIELD VERIFY ALL EXISTING STRUCTURAL WALLS AND BEAMS.

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.
- IN AREAS INDICATED STRUCTURAL MODIFICATIONS ARE OCCURRING ABOVE THE CEILING - SEE STRUCTURAL DRAWINGS.
- EXISTING PORTION OF CEILING TO BE REMOVED.

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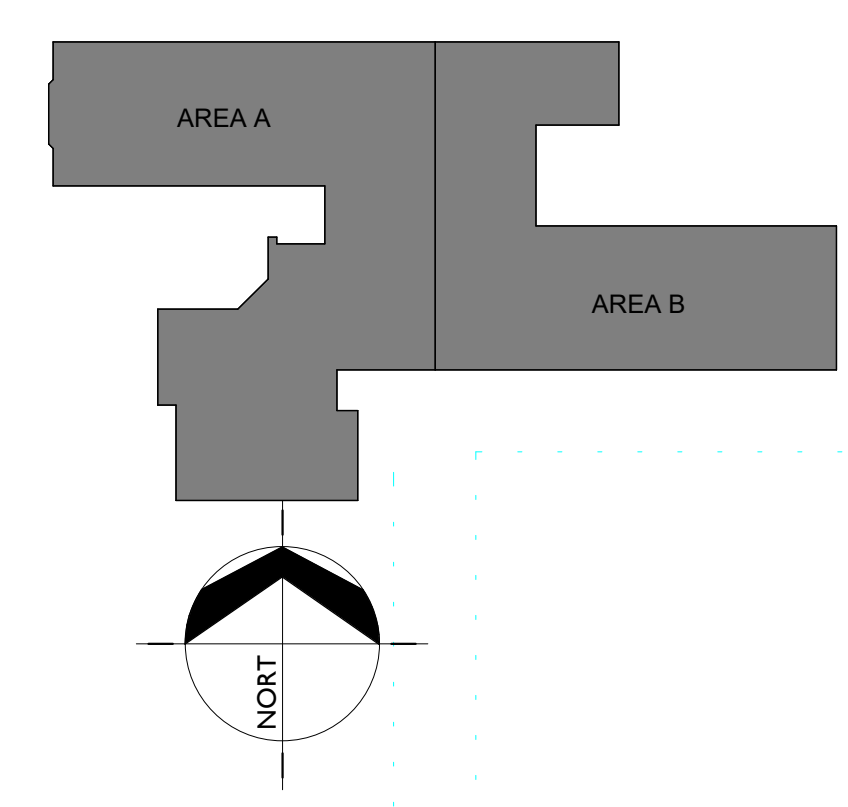
Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
COMPOSITE DEMO REFLECTED CEILING PLAN

Revisions: Δ

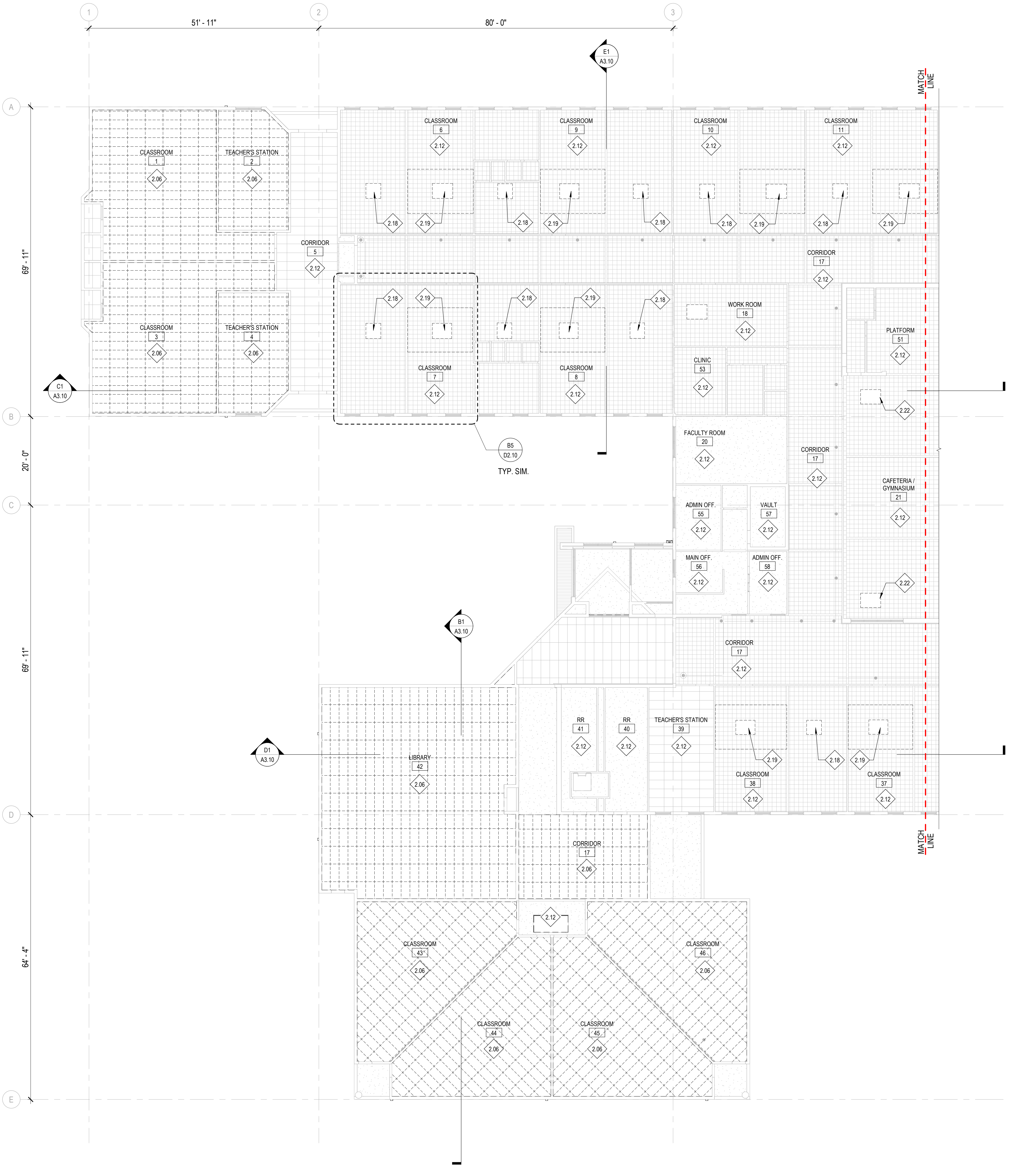
Project No: 24075
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
D2.08



100% CD

E1 COMPOSITE DEMO REFLECTED CEILING PLAN
 D2.08 1/16" = 1'-0"



GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALL PARTITIONS.
2. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU.
3. SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, CEILING, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
4. PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION.
5. PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED.
6. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
7. COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE.
8. 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.
- 2.18 DEMO EXISTING SKYLIGHT AND INFILL. MATCH EXISTING FINISHES.
- 2.19 EXISTING EVAPORATIVE COOLING UNIT, CURB, DUCTING, DIFFUSER, ELECTRICAL CONNECTIONS AND WATER SUPPLY TO BE REMOVED. SEE MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL WHERE INDICATED. VERIFY EXACT LOCATION.
- 2.22 EXISTING CEILING MOUNTED UNIT VENTILATOR INCLUDING ASSOCIATED SUPPORT SYSTEM, PIPING, DUCTING, AND ELECTRICAL TO BE REMOVED - SEE MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

LEGEND

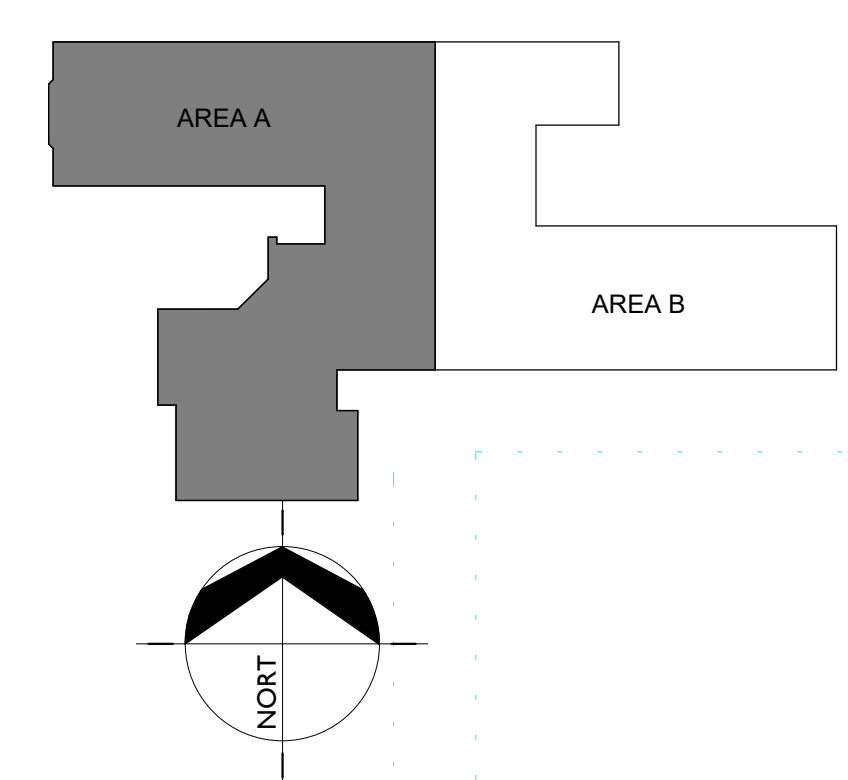
- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING GYPSUM BOARD CEILING TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING CEILING SYSTEM TO BE REMOVED.
- IN AREAS INDICATED STRUCTURAL MODIFICATIONS ARE OCCURRING ABOVE THE CEILING - SEE STRUCTURAL DRAWINGS.
- EXISTING PORTION OF CEILING TO BE REMOVED.

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Project:
 HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
 AREA 'A' DEMO REFLECTED CEILING PLAN

Revisions:



E1 AREA 'A' DEMO REFLECTED CEILING PLAN
 D2.09 3/32" = 1'-0"

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025
Sheet No: D2.09

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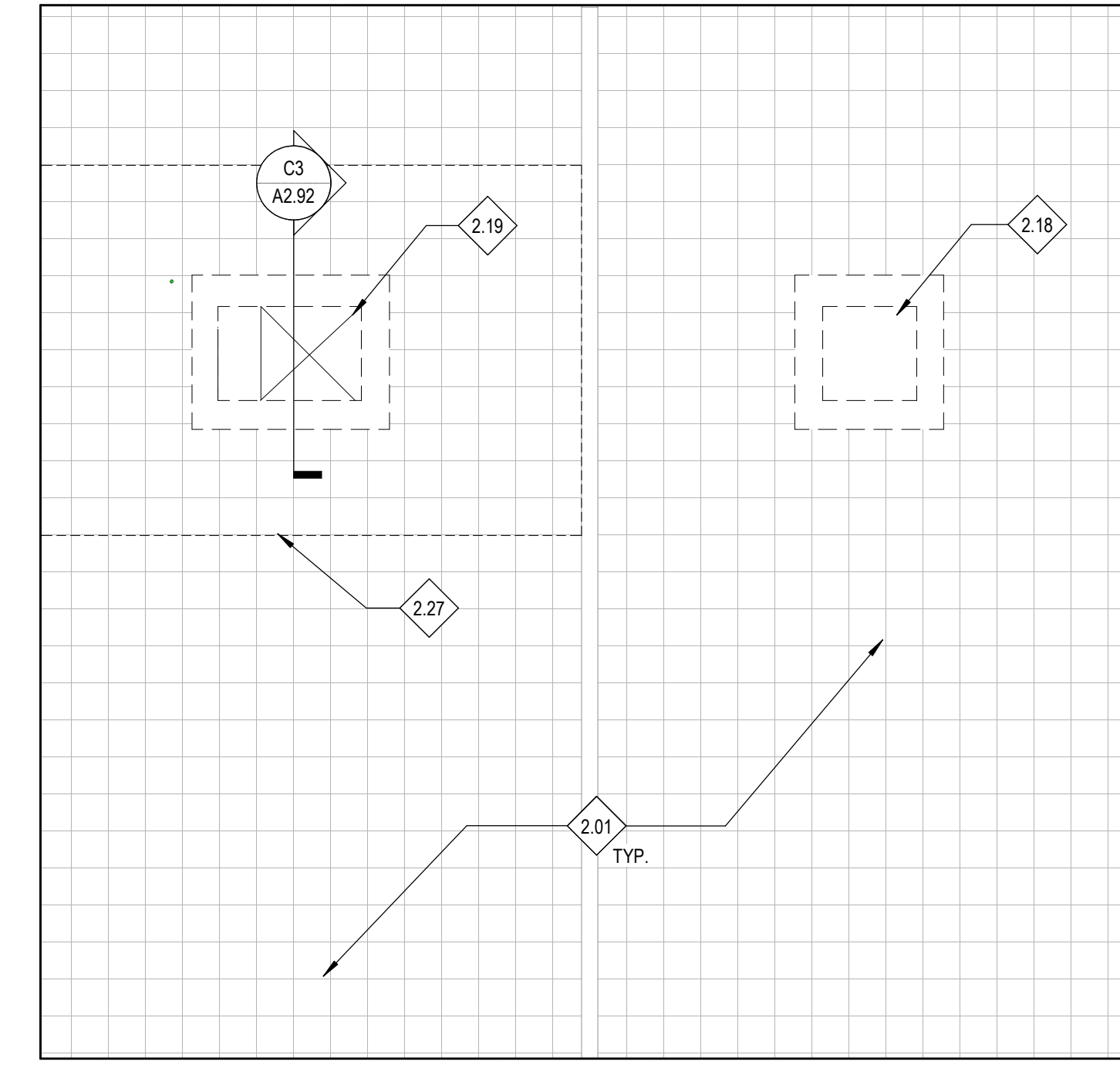
C

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E



D1 AREA 'B' DEMO REFLECTED CEILING PLAN
 D2.10 3/32" = 1'-0"



B5 TYPICAL CLASSROOM RCP - DEMO B
 D2.10 1/4" = 1'-0"

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, 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, PROTECTORS 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. FIELD VERIFY ALL EXISTING STRUCTURAL WALLS AND BEAMS.

KEYNOTES

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.12 CEILING AND LIGHTS EXISTING TO REMAIN
- 2.18 DEMO EXISTING SKYLIGHT AND WELL. MATCH EXISTING FINISHES.
- 2.19 EXISTING EVAPORATIVE COOLING UNIT, CURB, DUCTING, DIFFUSER, ELECTRICAL CONNECTIONS AND WATER SUPPLY TO BE REMOVED. SEE MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL WHERE INDICATED. VERIFY EXACT LOCATION.
- 2.22 EXISTING CEILING MOUNTED VENTILATOR INCLUDING ASSOCIATED SUPPORT SYSTEM, PIPING, DUCTING, AND ELECTRICAL TO BE REMOVED - SEE MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION
- 2.27 REMOVE EXISTING ROOFING, INSULATION, ROOF SHEATHING, FRAMING AND CEILING FINISHES AS REQUIRED FOR INSTALLATION OF NEW ROOF TOP AIR CONDITIONING UNIT. SEE MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL WHERE INDICATED. VERIFY EXACT LOCATION.

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.
- IN AREAS INDICATED STRUCTURAL MODIFICATIONS ARE OCCURRING ABOVE THE CEILING - SEE STRUCTURAL DRAWINGS.
- EXISTING PORTION OF CEILING TO BE REMOVED.

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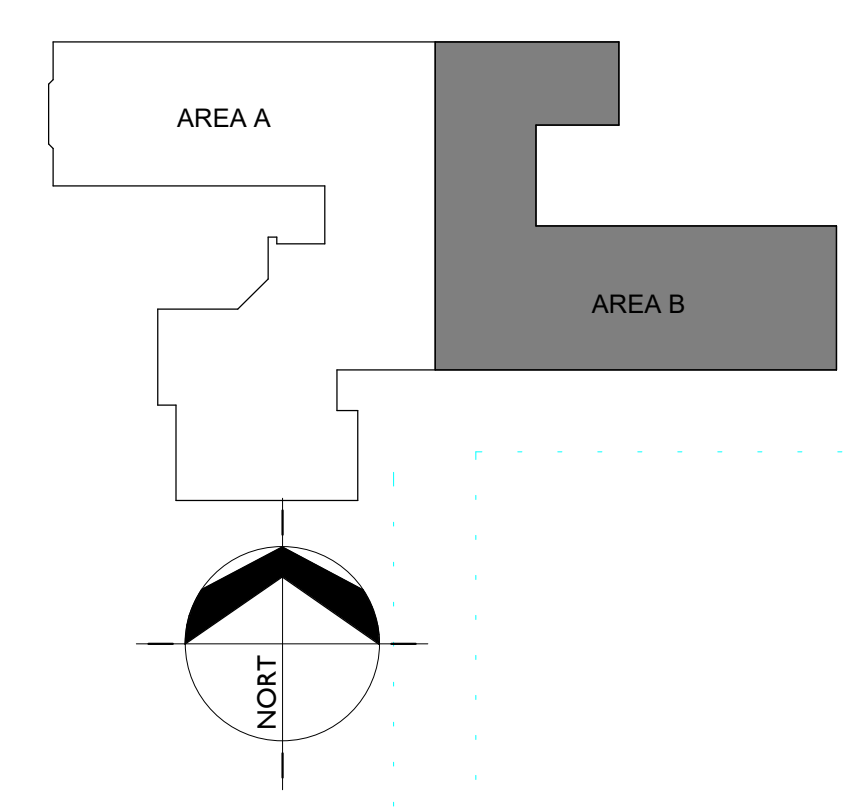
Project:
 HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
 AREA 'B' DEMO REFLECTED CEILING PLAN

Revisions:

Project No: 24075
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No: **D2.10**



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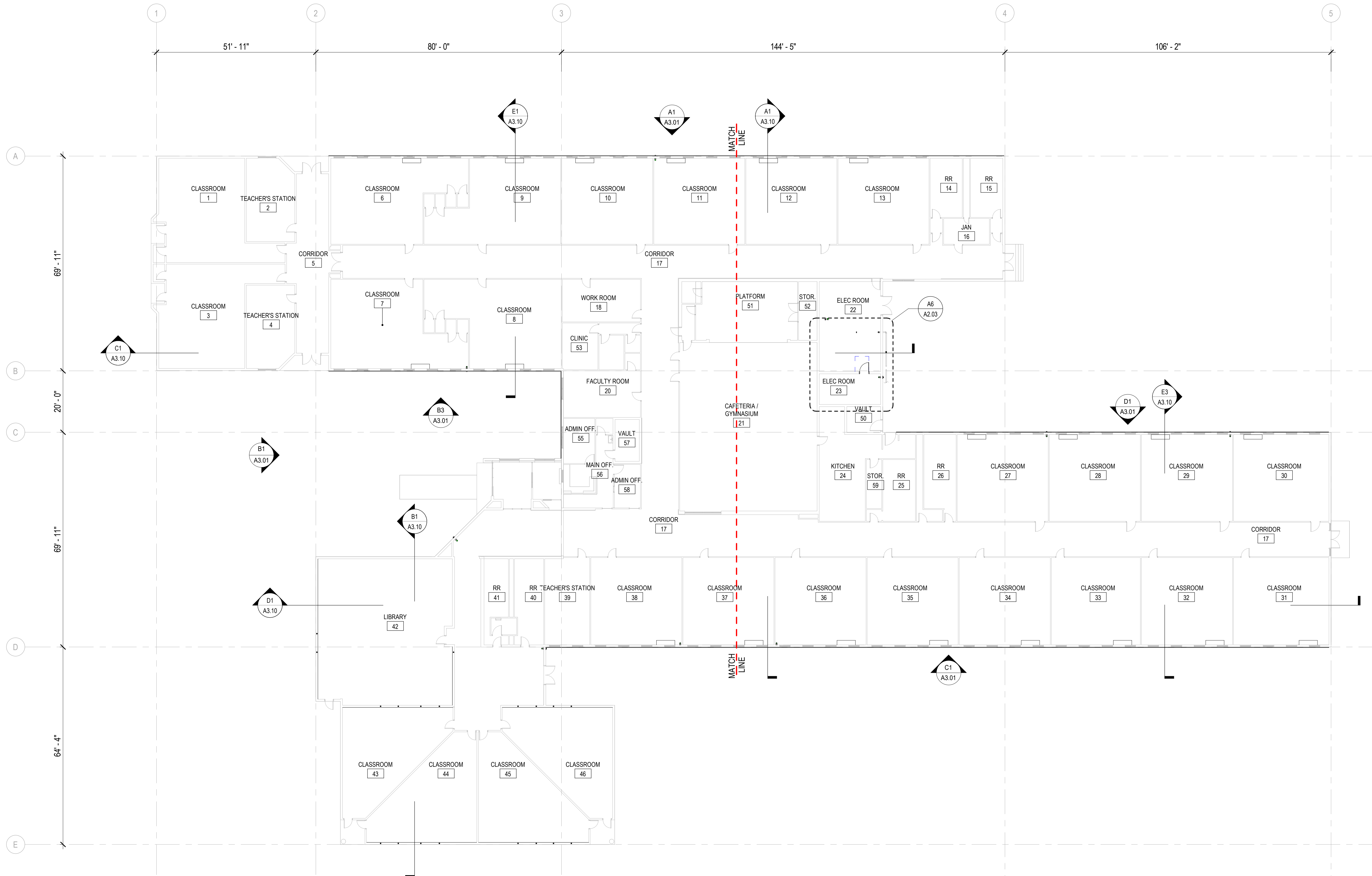
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GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- B. FIN 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. STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- MATCH LINE
- EXISTING DOOR

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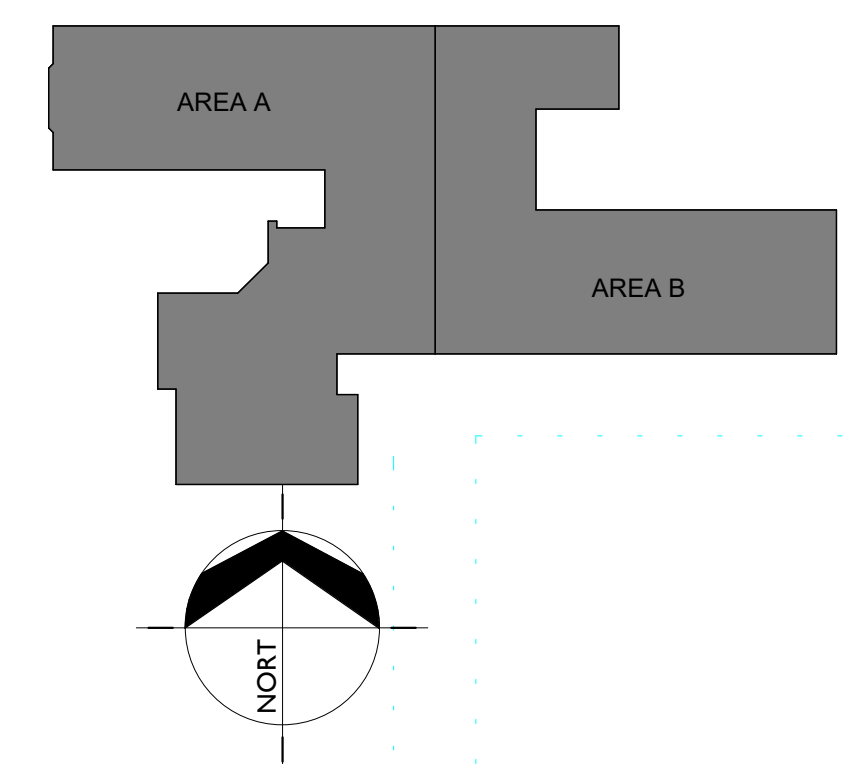
Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
COMPOSITE FLOOR PLAN

Revisions:



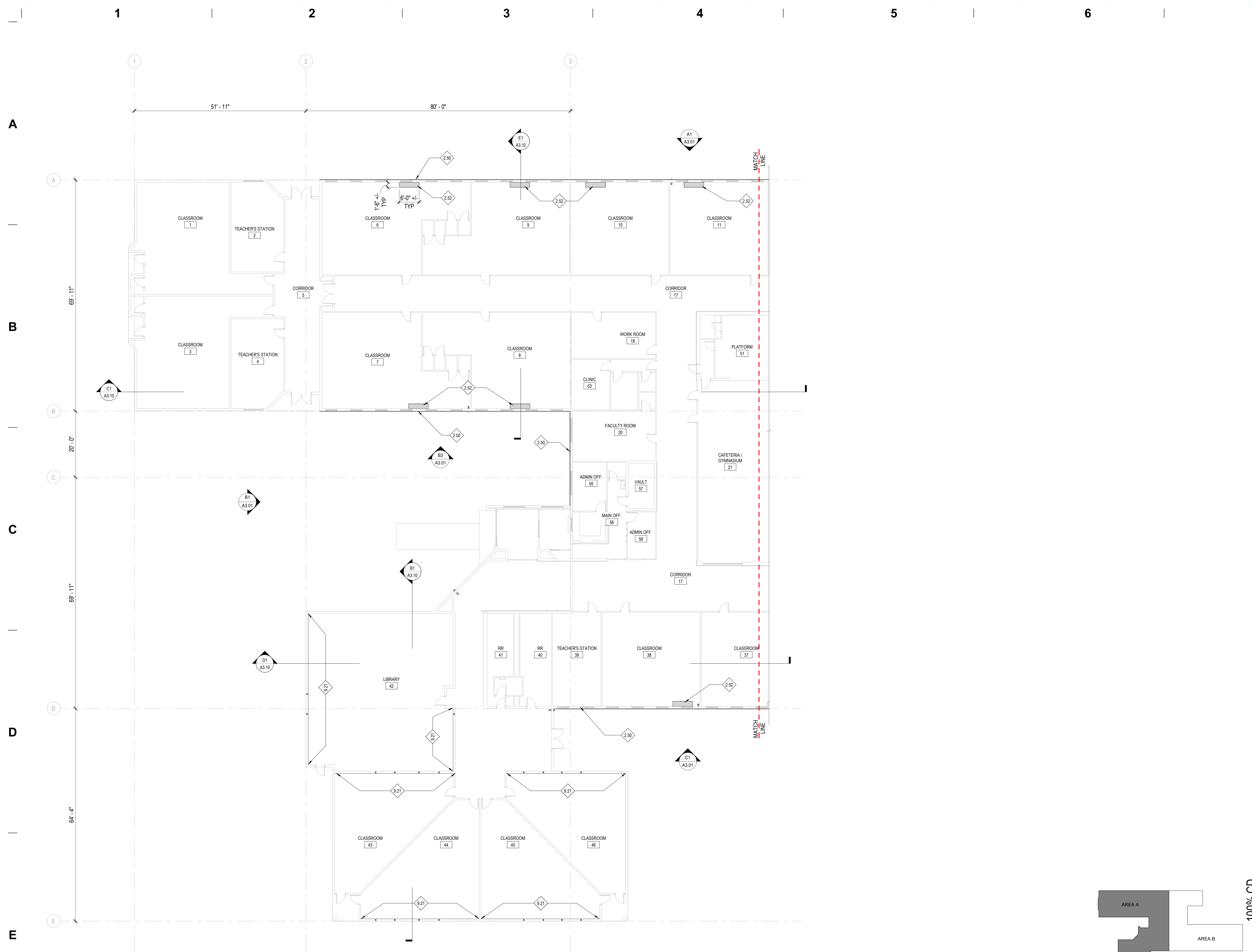
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Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
A2.01

E1 COMPOSITE FLOOR PLAN
 A2.01 1/16" = 1'-0"



E1 AREA 'A' FLOOR PLAN
A2.02 3/32" = 1'-0"

GENERAL NOTES

- THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- FIN 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.
- STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEYNOTES

REFERENCE NOTES

- 2.50 NEW SHEATHING AND PRE-FINISHED METAL WALL PANEL PAINTED TO MATCH EXISTING
- 2.52 REPLACE EXTENTS OF DAMAGED GPT FROM EQUIPMENT REMOVAL. MATCH EXISTING MATERIALS. PROVIDE NEW RWB CORNER TO CORNER. REFERENCE DETAIL B104.91
- 9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER TO MATCH EXISTING.

LEGEND

	NEW CONSTRUCTION
	EXISTING WALL
	EXISTING WINDOW
	EXISTING DOOR
	FLOOR INFILL
	MATCH LINE
	DOOR SYMBOL, COORDINATE WITH DOOR SCHEDULE

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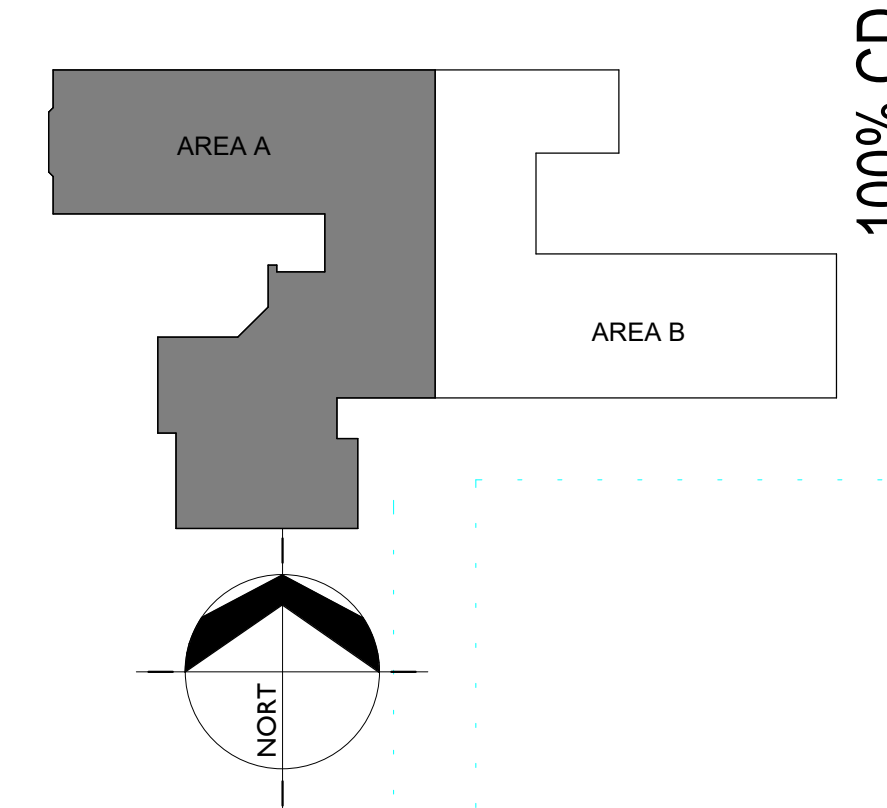
Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
AREA 'A' FLOOR PLAN

Revisions:

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

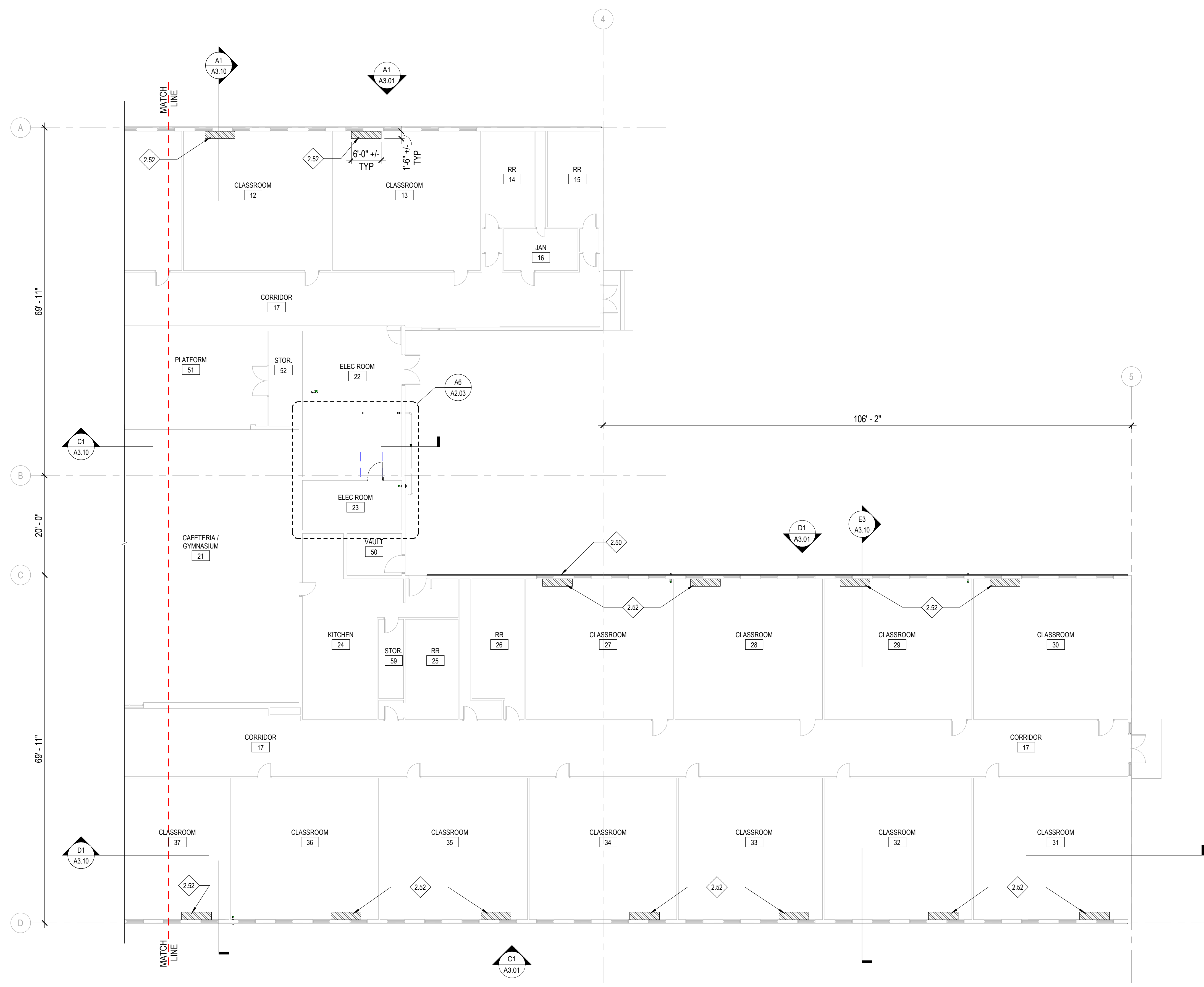
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A2.02



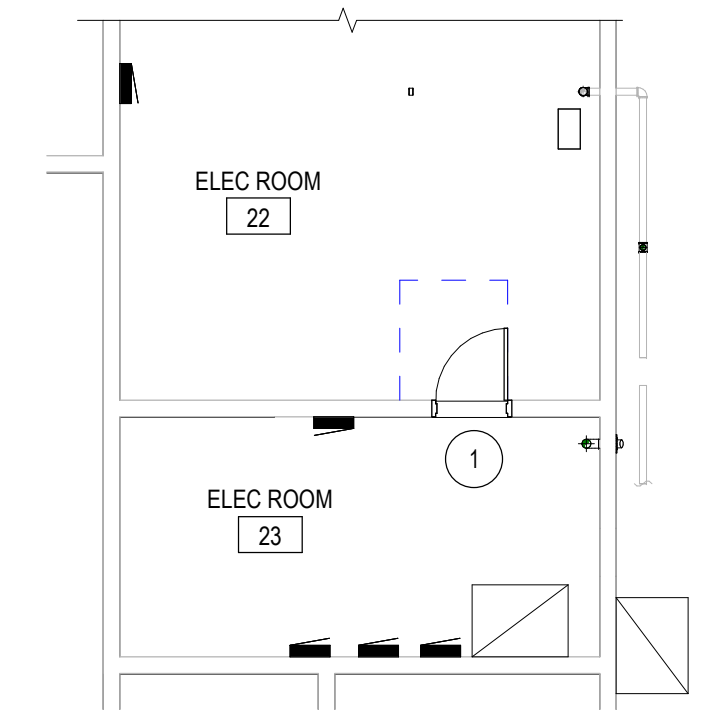
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D1 AREA 'B' FLOOR PLAN
A2.03 3/32" = 1'-0"



A6 FUEL ROOM - ENLARGED PLAN
A2.03 1/8" = 1'-0"

GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
- B. FIN 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. STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEYNOTES

REFERENCE NOTES

- 2.50 NEW SHEATHING AND PRE-FINISHED METAL WALL PANEL PAINTED TO MATCH EXISTING.
- 2.52 REPLACE EXTENTS OF DAMAGED CPT FROM EQUIPMENT REMOVAL. MATCH EXISTING MATERIALS. PROVIDE NEW RWB CORNER TO CORNER. REFERENCE DETAIL B114M.91

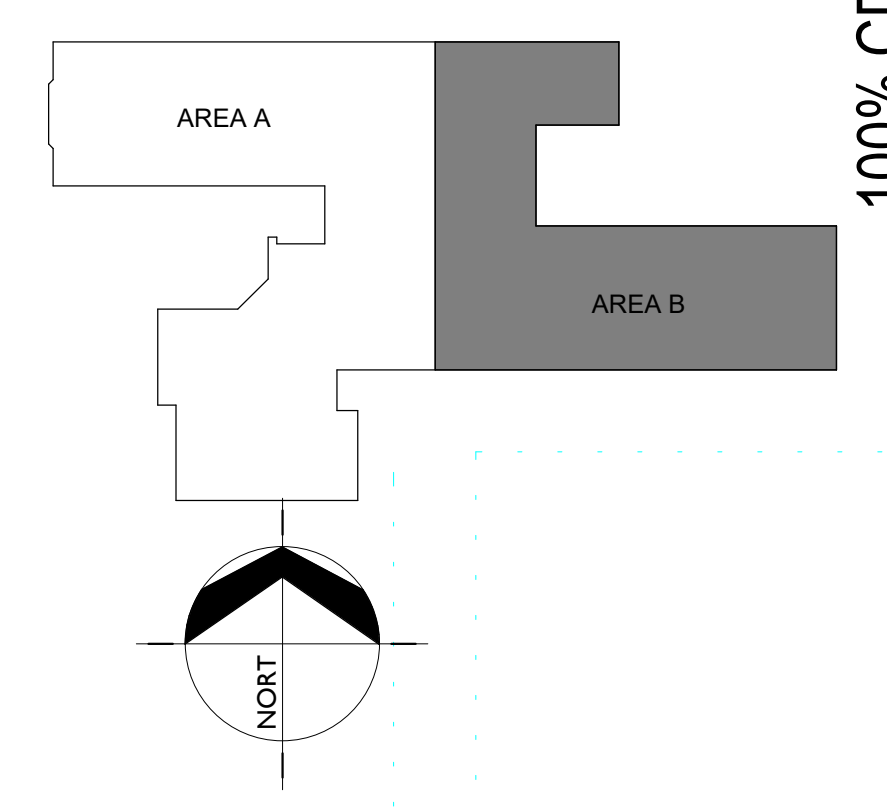
LEGEND

- NEW CONSTRUCTION
- EXISTING WALL
- EXISTING WINDOW
- EXISTING DOOR
- FLOOR INFILL
- MATCH LINE
- ⊗ DOOR SYMBOL COORDINATE WITH DOOR SCHEDULE

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Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
 Harrison Elementary School
 600 Harrison St.
 Twin Falls, ID 83301

Sheet:
AREA 'B' FLOOR PLAN



Revisions: Δ

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
A2.03

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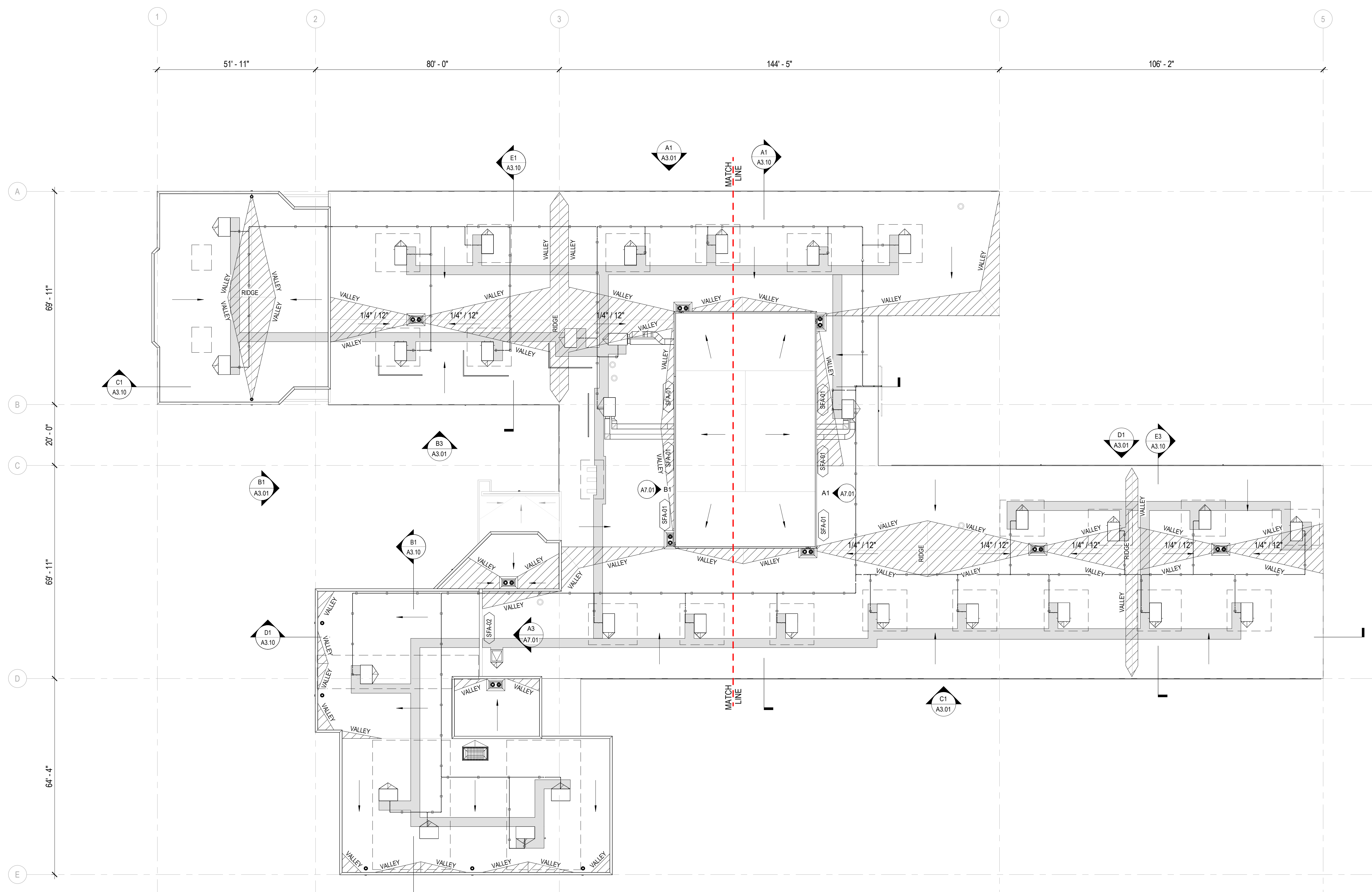
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GENERAL NOTES

- 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
- 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.C
- ROOF DRAIN SUMP
- ROOF HATCH

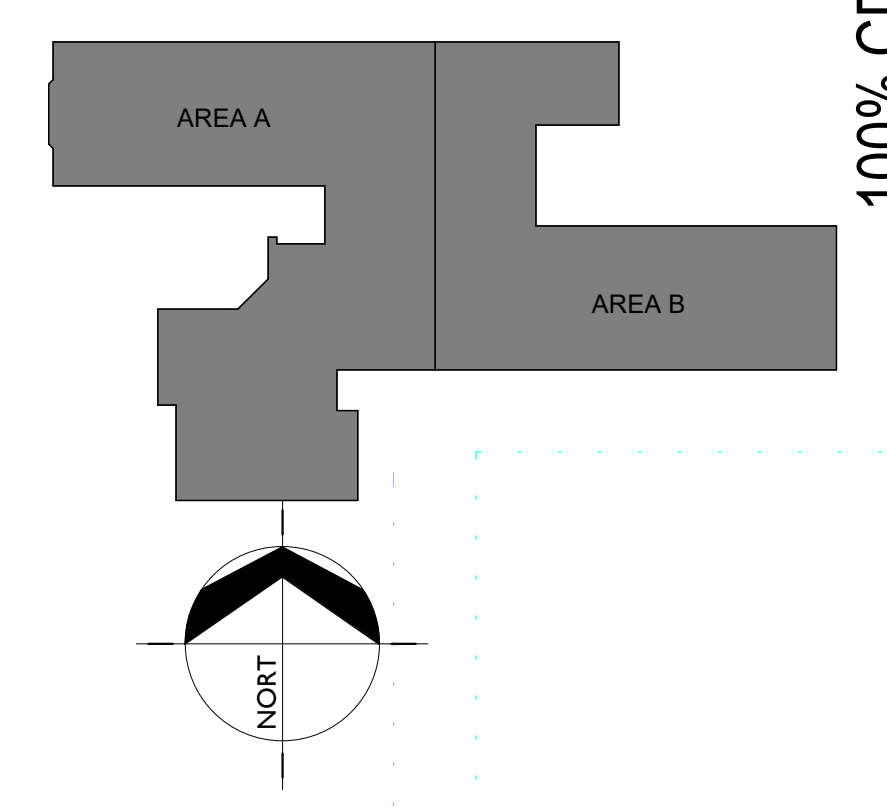
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Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
Harrison Elementary School
600 Harrison St.
Twin Falls, ID 83301

Sheet:
COMPOSITE ROOF PLAN

E1 COMPOSITE ROOF PLAN
A2.04 1/16" = 1'-0"



Revisions:

Project No:	24076
Drawn By:	NB
Checked By:	PR
Date:	01/15/2025

Sheet No:
A2.04

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 SLUMP 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.

KEYNOTES

- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 076200.A PARAPET COPING
- 076200.G PROVIDE NEW COUNTERFLASHING IN EXISTING LOCATION.
- 076200.J DOWNSPOUT
- 076200.K OVERFLOW SCUPPER. SEE DETAIL C1/A2.92
- 076200.M CONTINUOUS FASOGA GUTTER. TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 077200.B ROOF HATCH
- 077200.H FALL ARREST ANCHOR. FLASH SIMILAR TO DETAIL C1/A2.91.
- 086200.A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY

REFERENCE NOTES

- 1.28 PIPE/ CONDUIT SUPPORT PADS. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION.
- 5.04 MECHANICAL SCREENING WALL. RE B1/A2.92
- 7.15 NEW ROOF DRAIN. COORDINATE WITH PLUMBING DRAWINGS.
- 23.02 NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

LEGEND

- AREA OF TAPERED INSULATION
- 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.C
- ROOF DRAIN SLUMP
- ROOF HATCH

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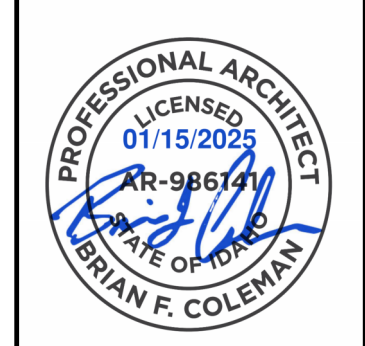
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Project:
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 Twin Falls, ID 83301

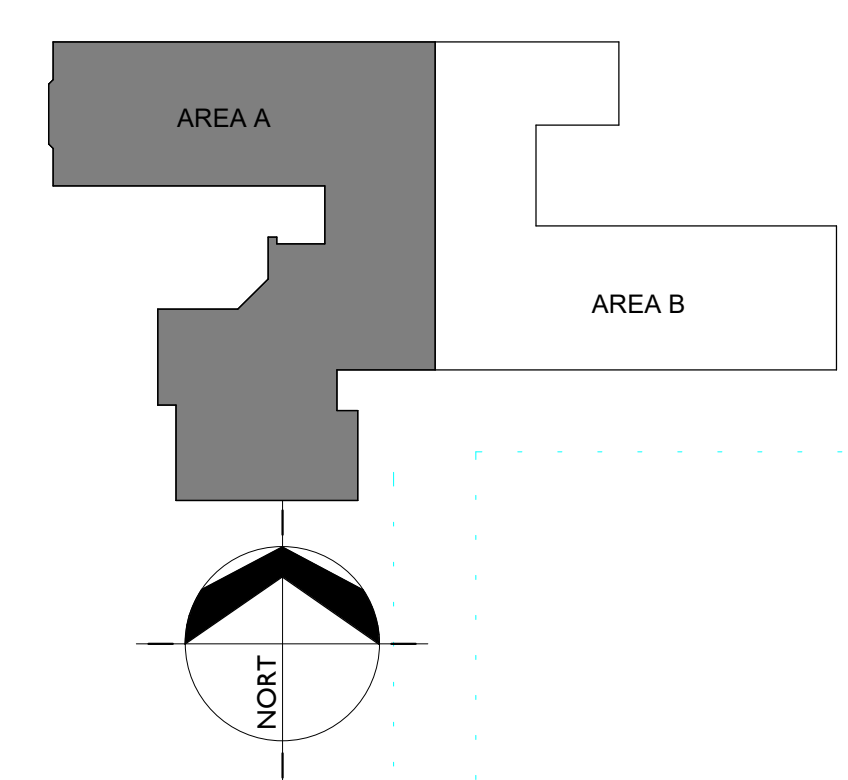
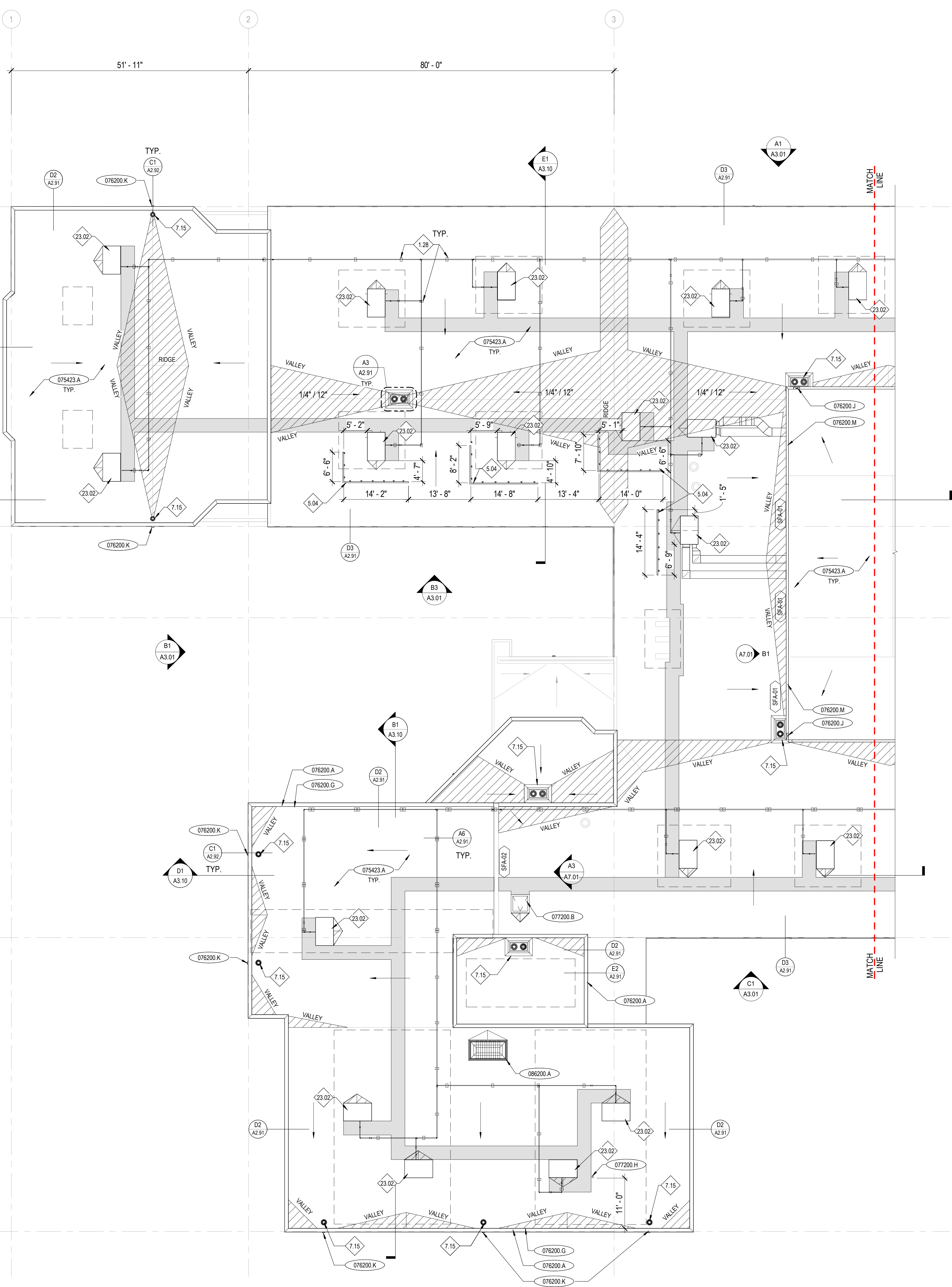
Sheet:
AREA 'A' ROOF PLAN

Revisions:



Project No: 24075
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No: **A2.13**



E1 AREA 'A' ROOF PLAN
 A2.13 3/32" = 1'-0"

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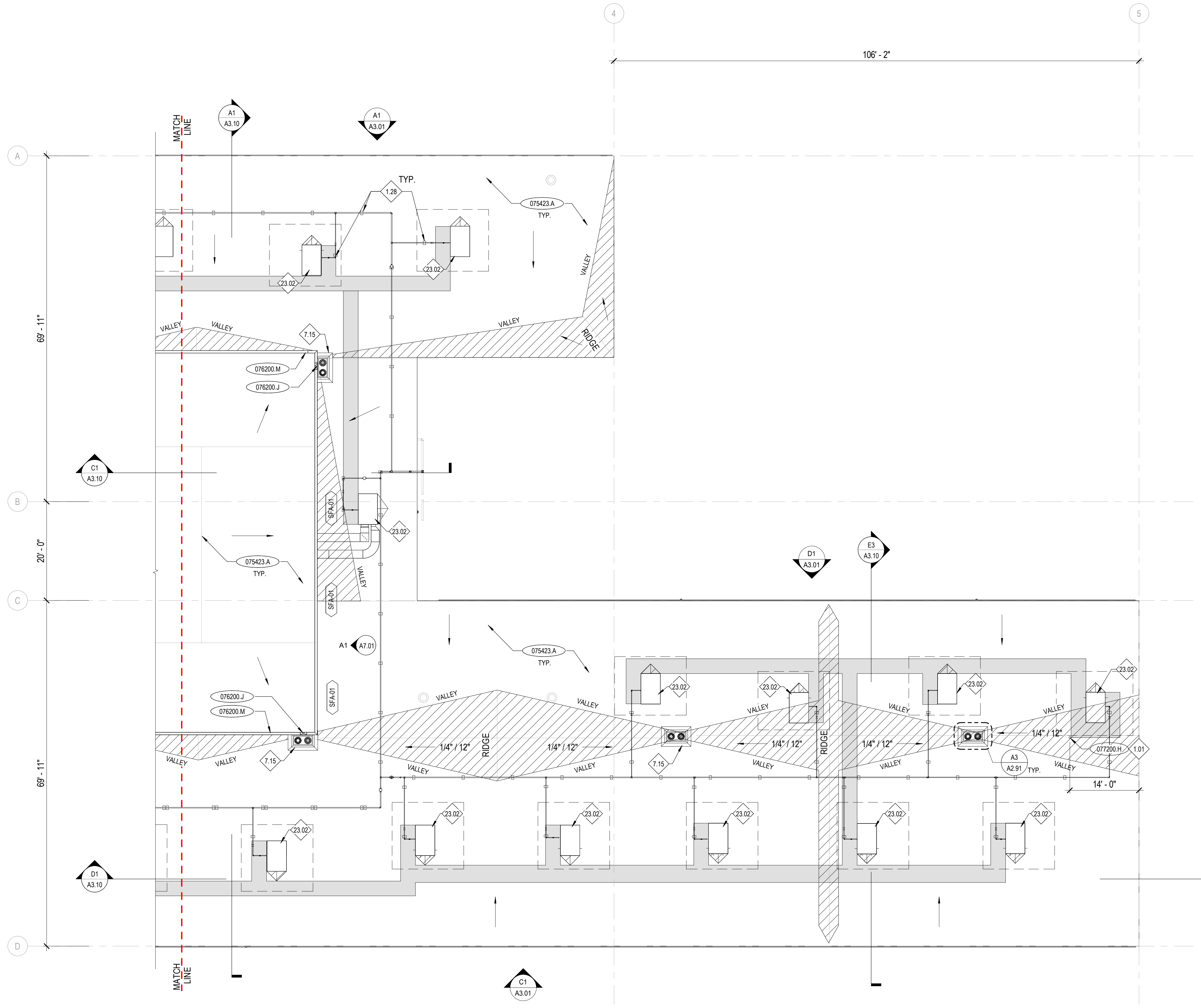
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D1 AREA 'B' ROOF PLAN
 A2.14 3/32" = 1'-0"

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.

KEYNOTES

- 075423 A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 076200 J DOWNSPOUT
- 076200 M CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 077200 H FALL ARREST ANCHOR, FLASH SIMILAR TO DETAIL C1A2.91.

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 1.28 PIPE/ CONDUIT SUPPORT PADS, COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION.
- 7.15 NEW ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
- 23.02 NEW MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

LEGEND

- AREA OF TAPERED INSULATION
- 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 C
- ROOF DRAIN SUMP
- ROOF HATCH

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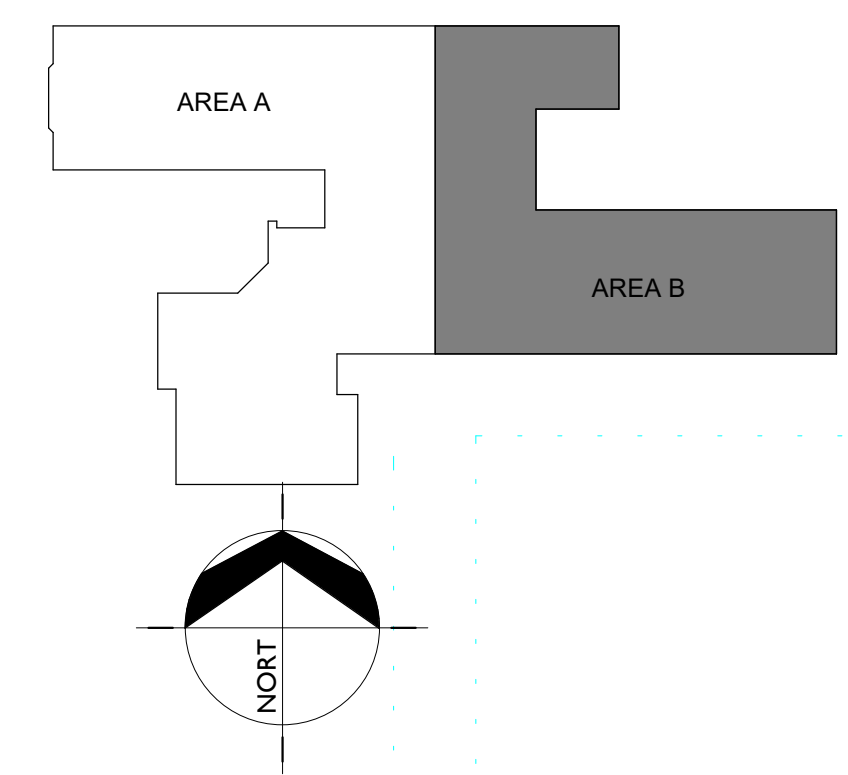
Project:
 HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
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 600 Harrison St.
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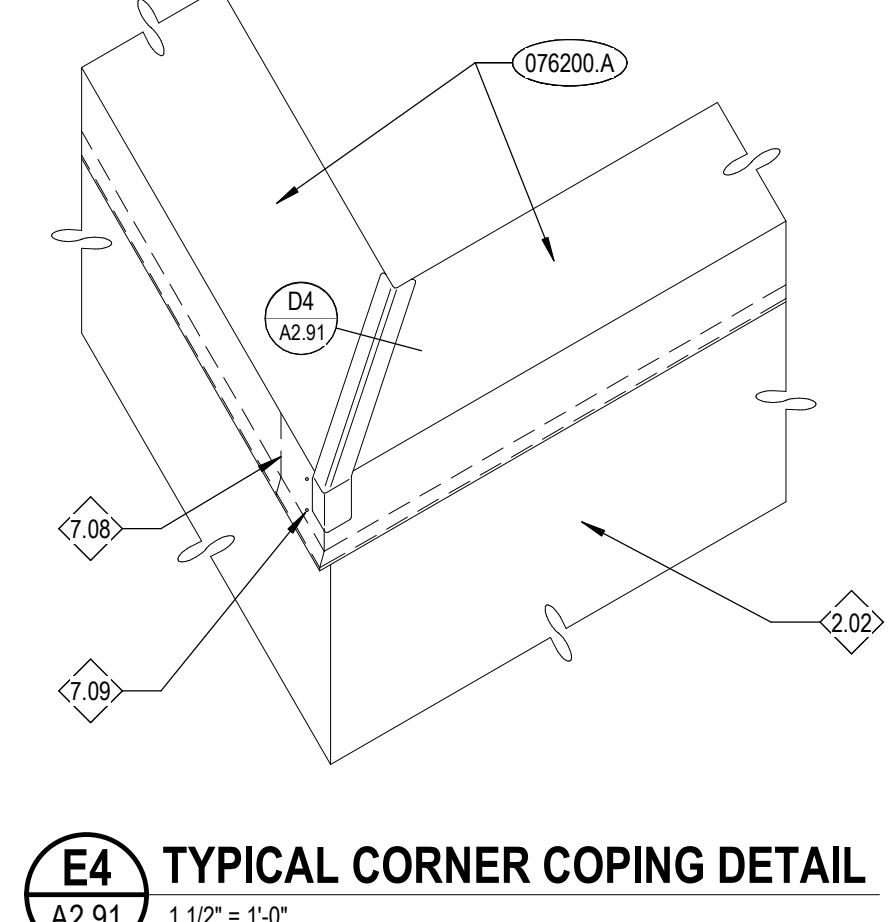
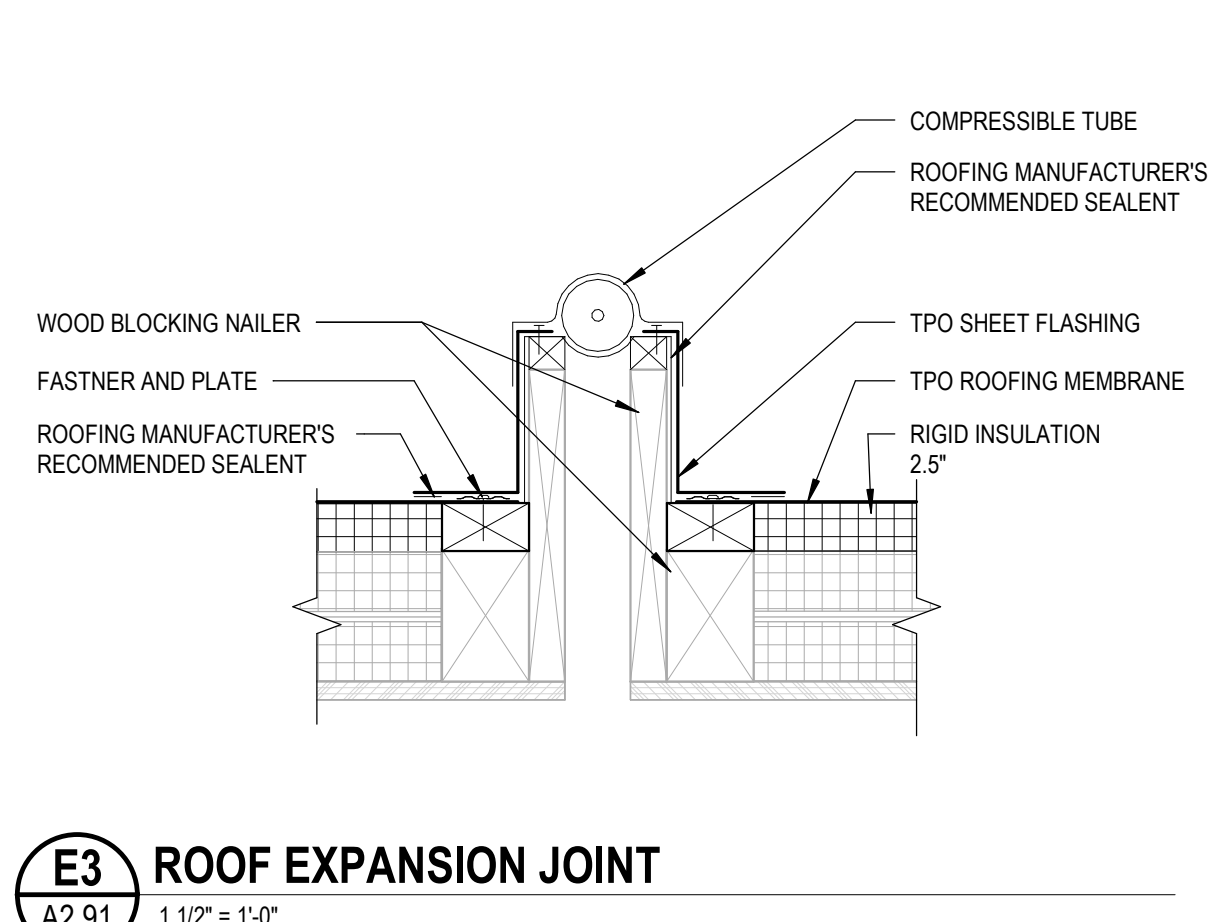
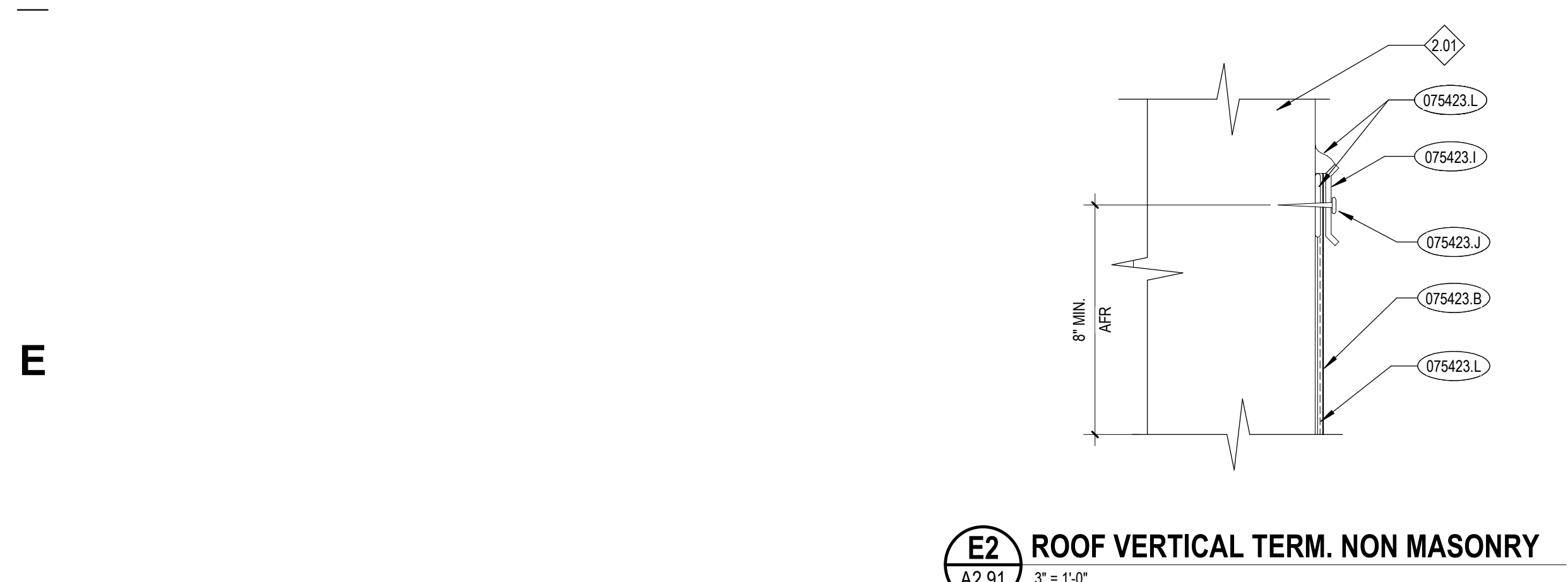
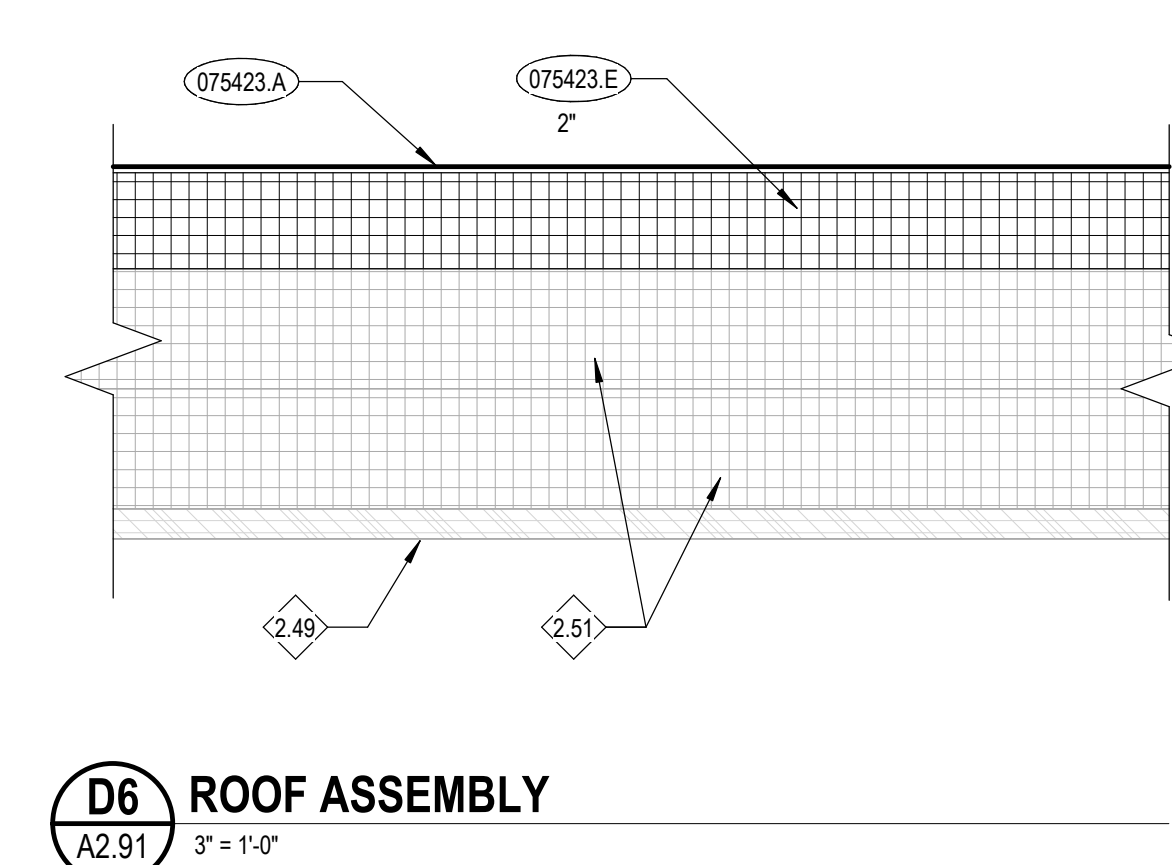
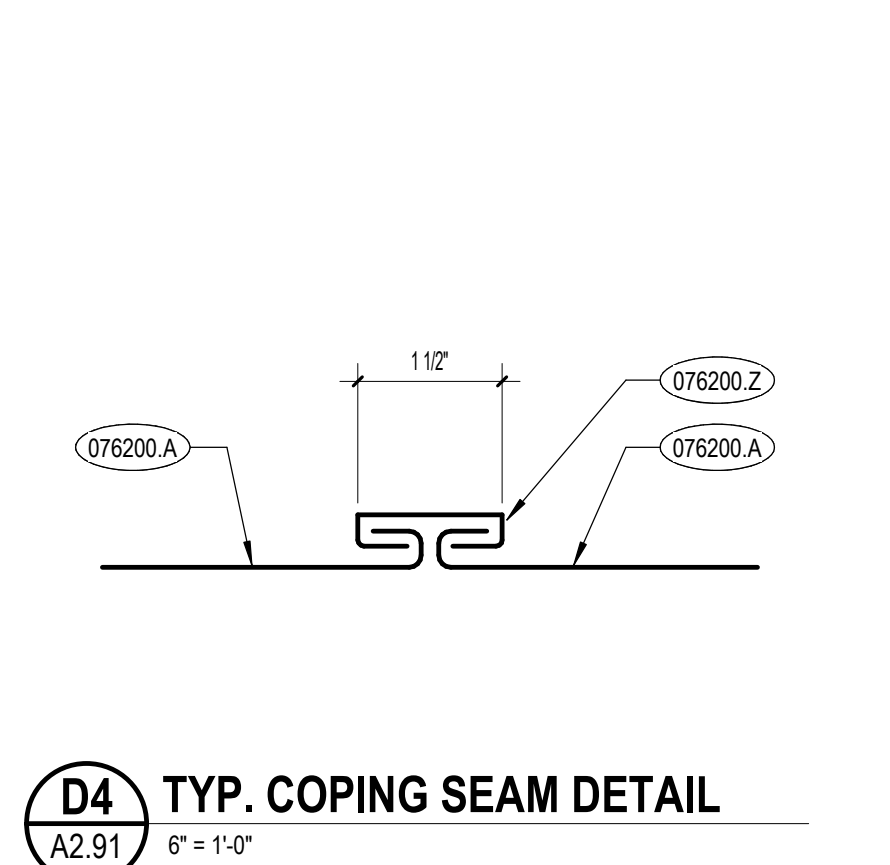
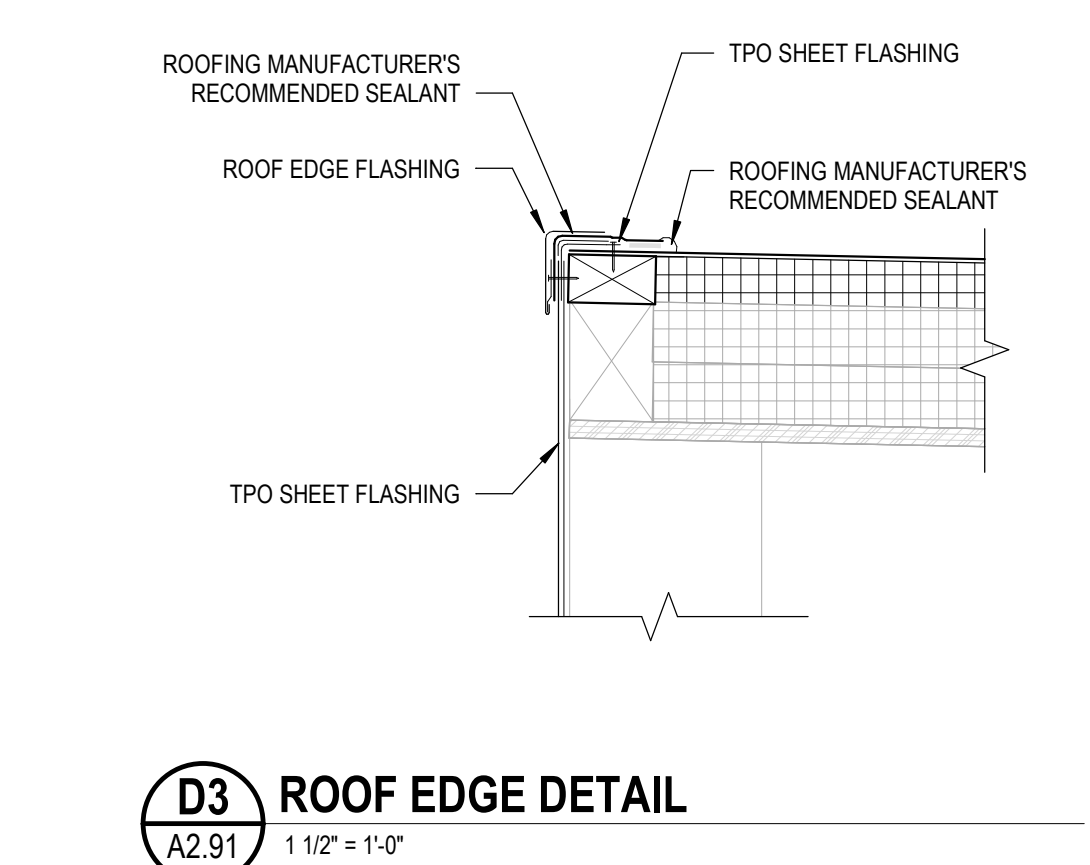
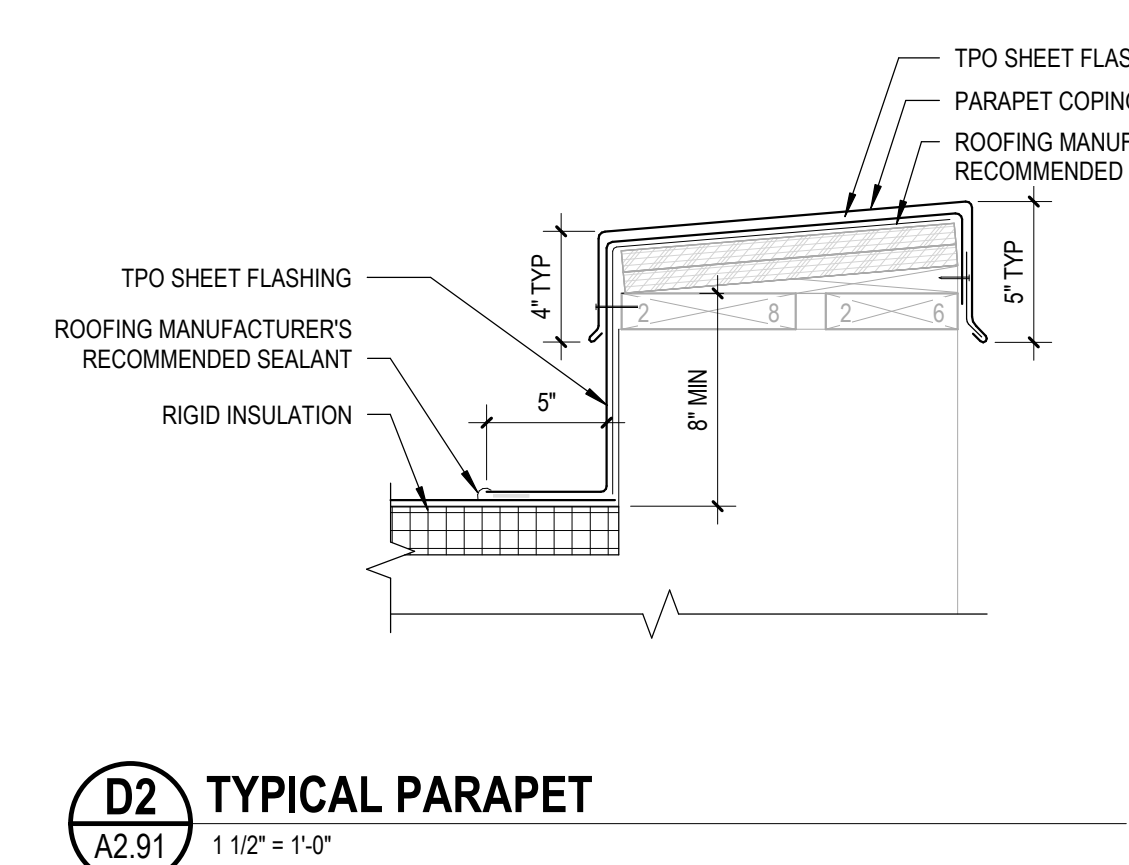
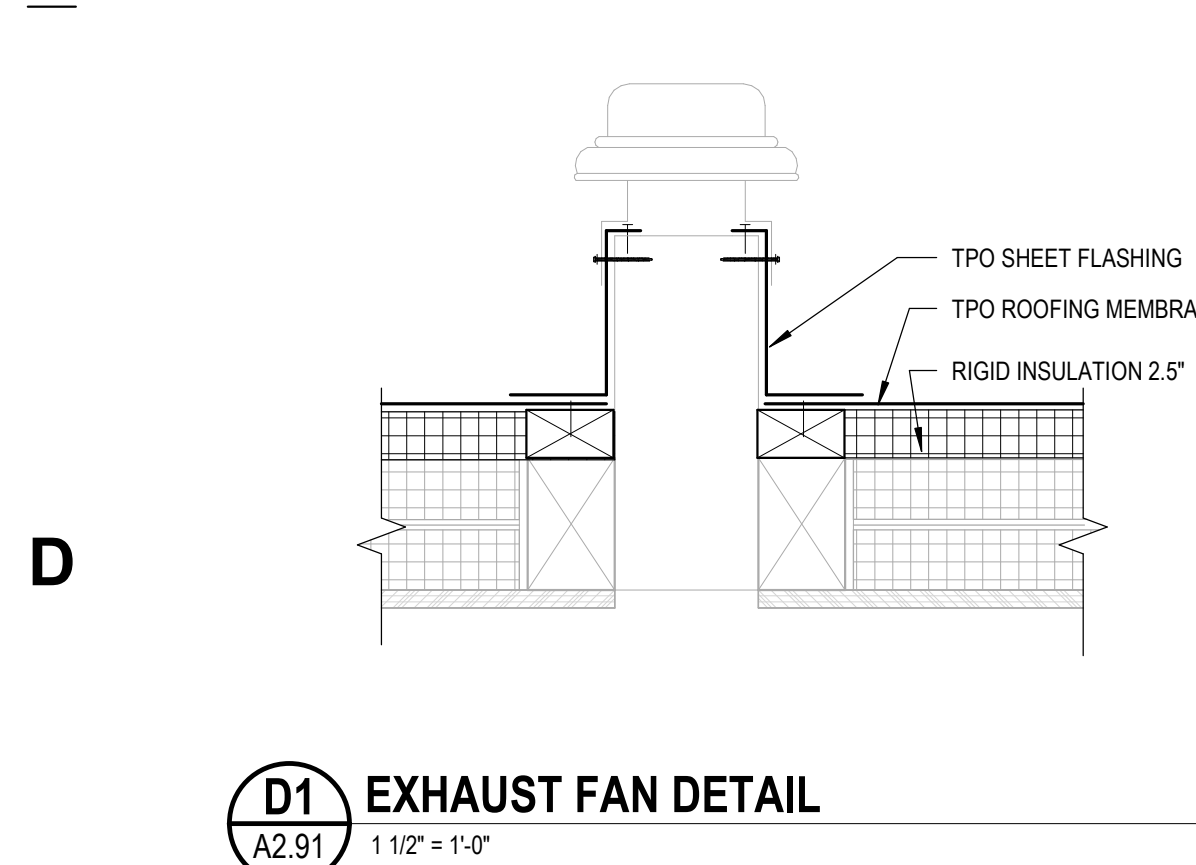
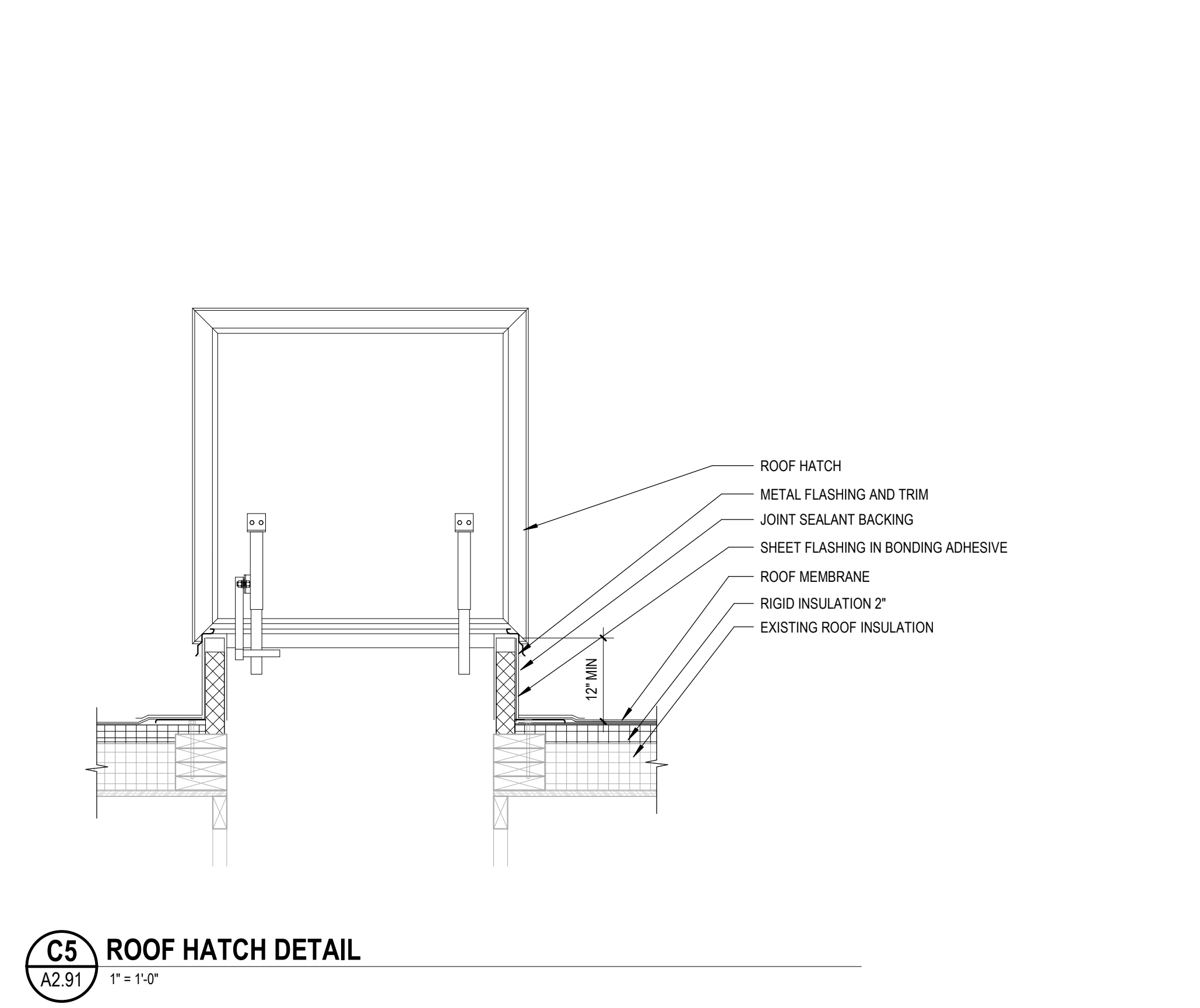
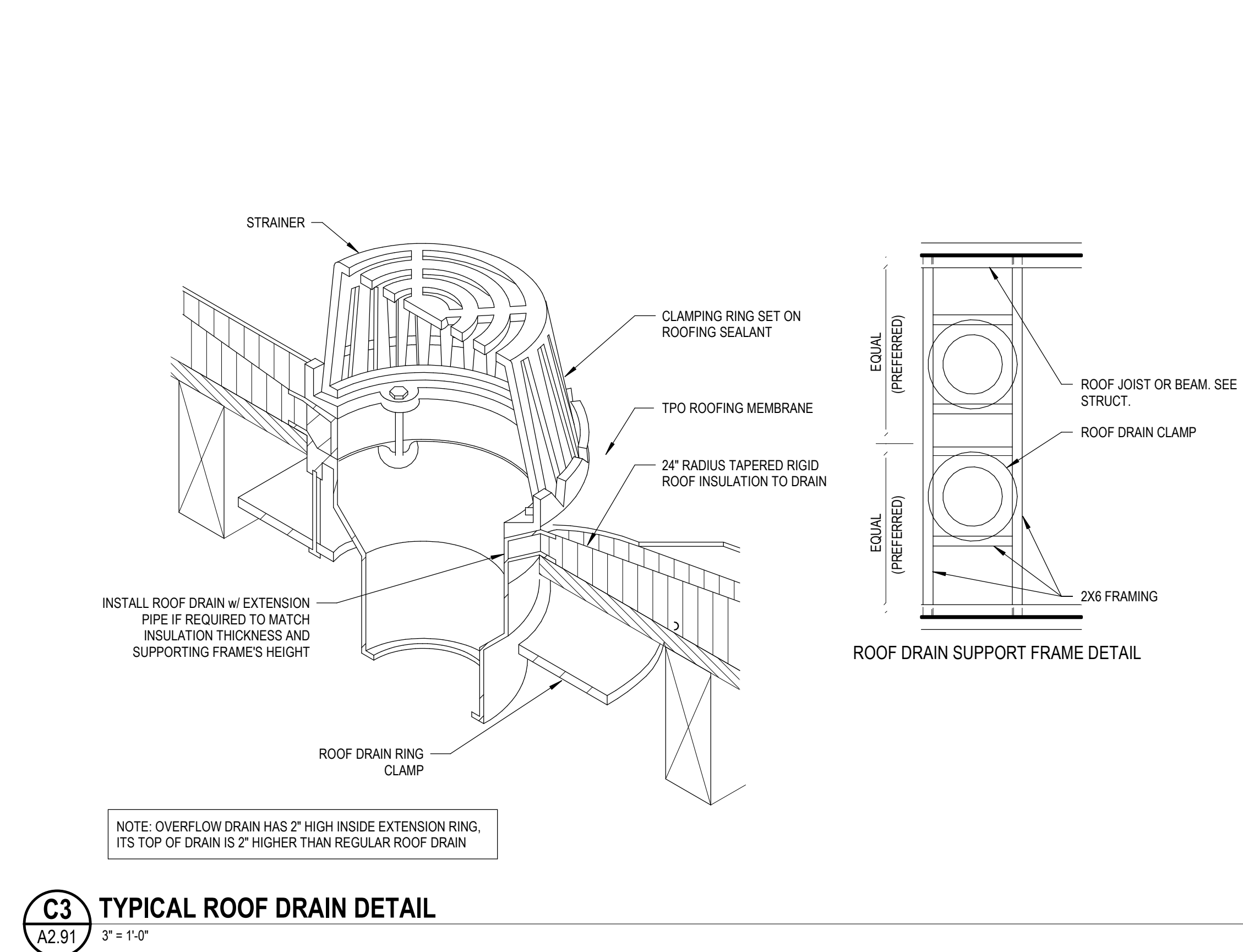
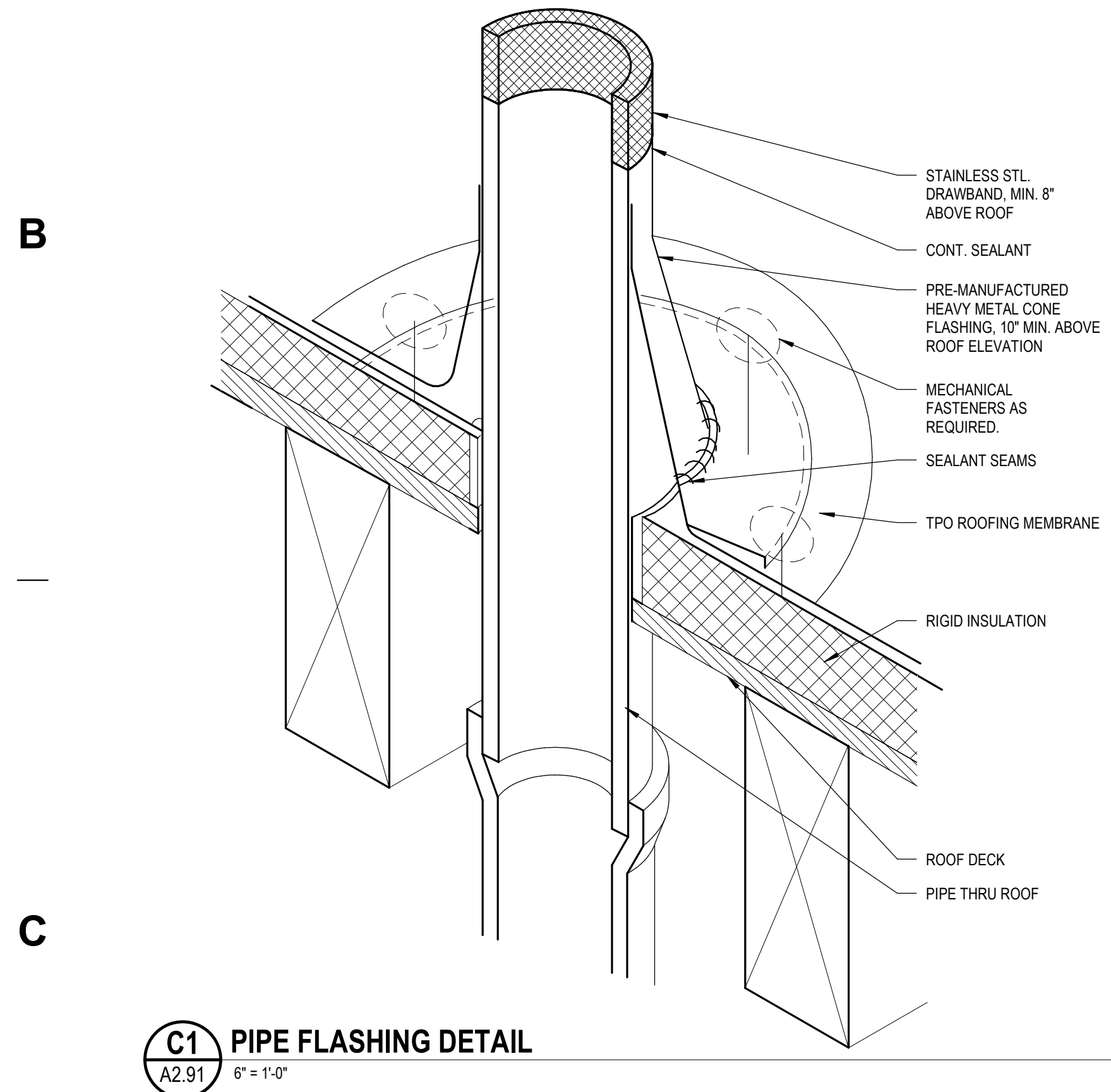
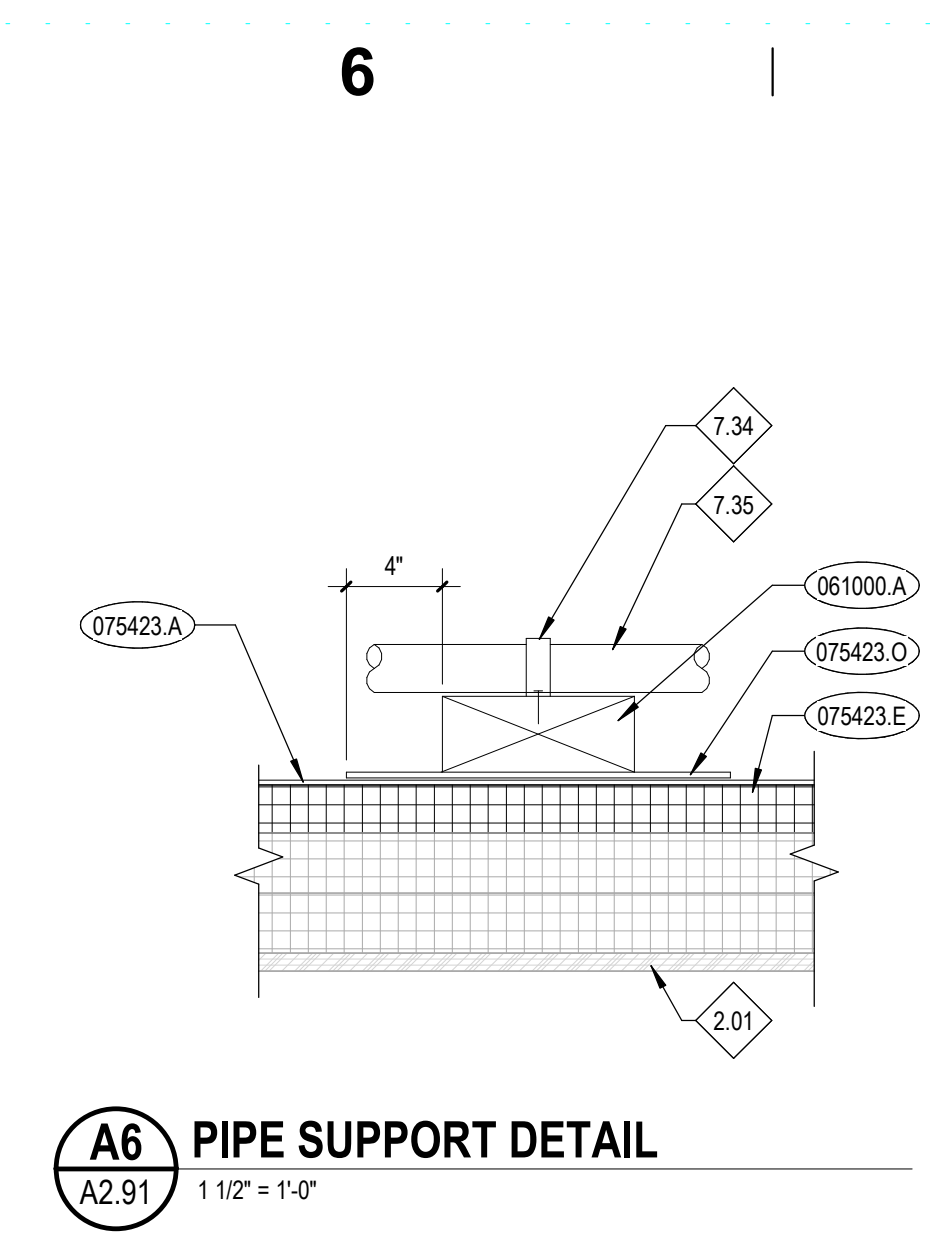
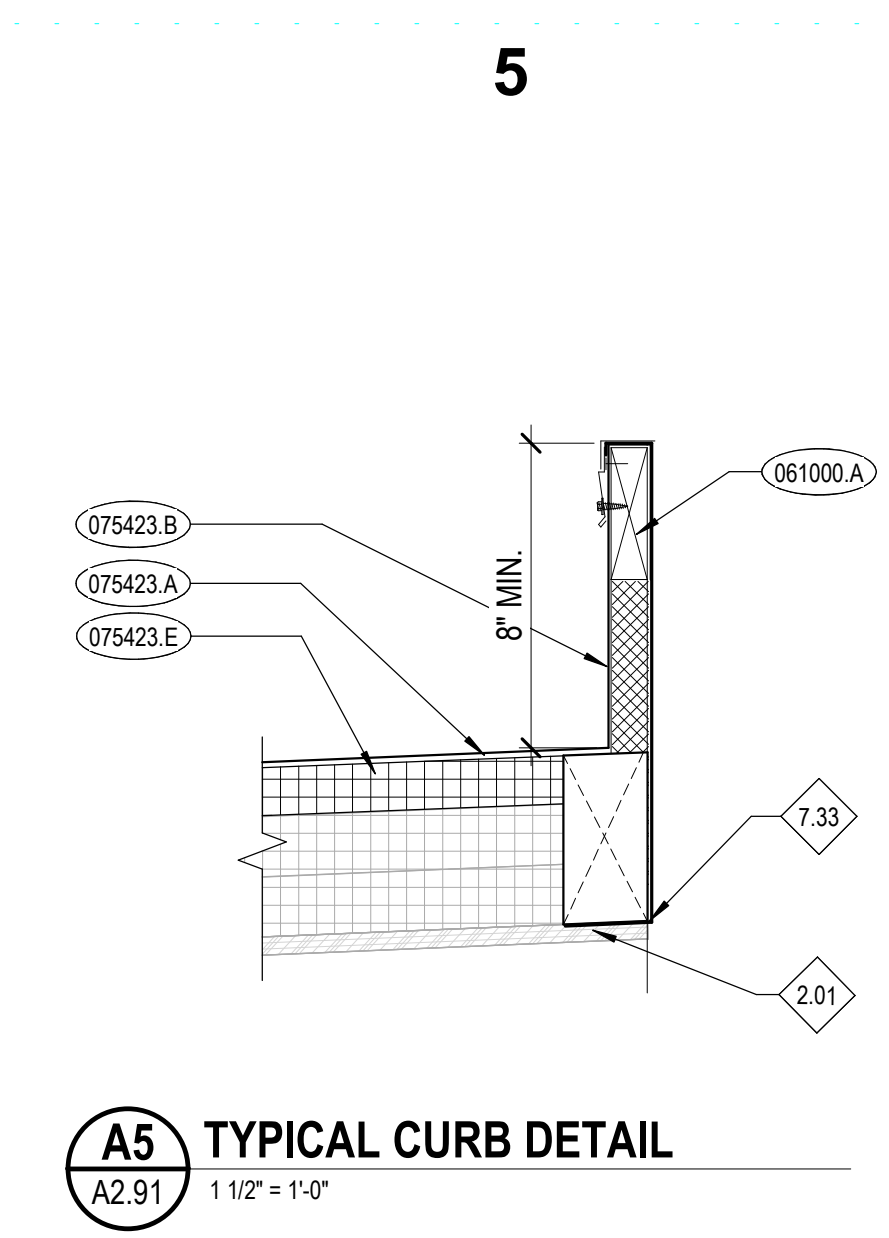
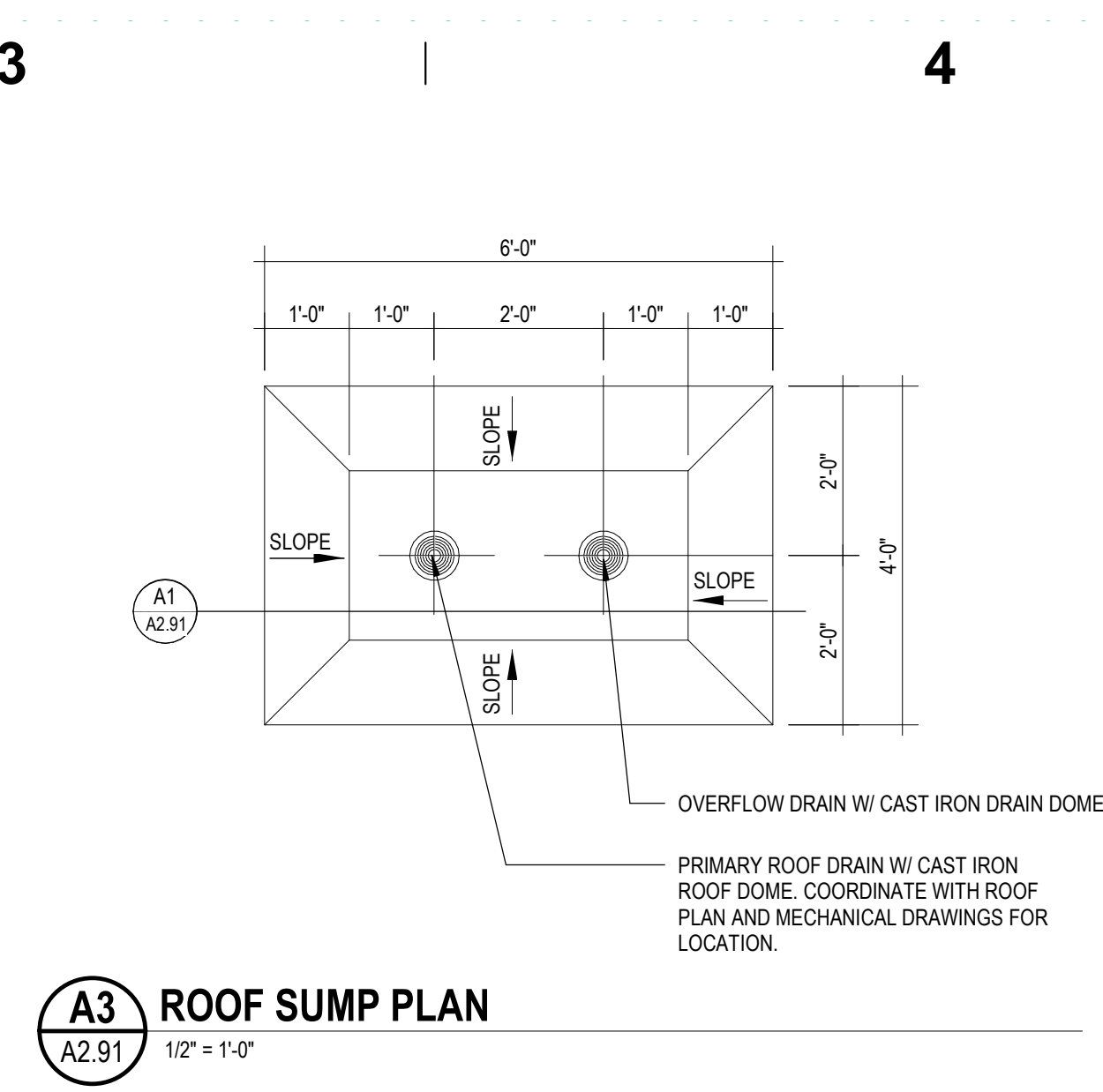
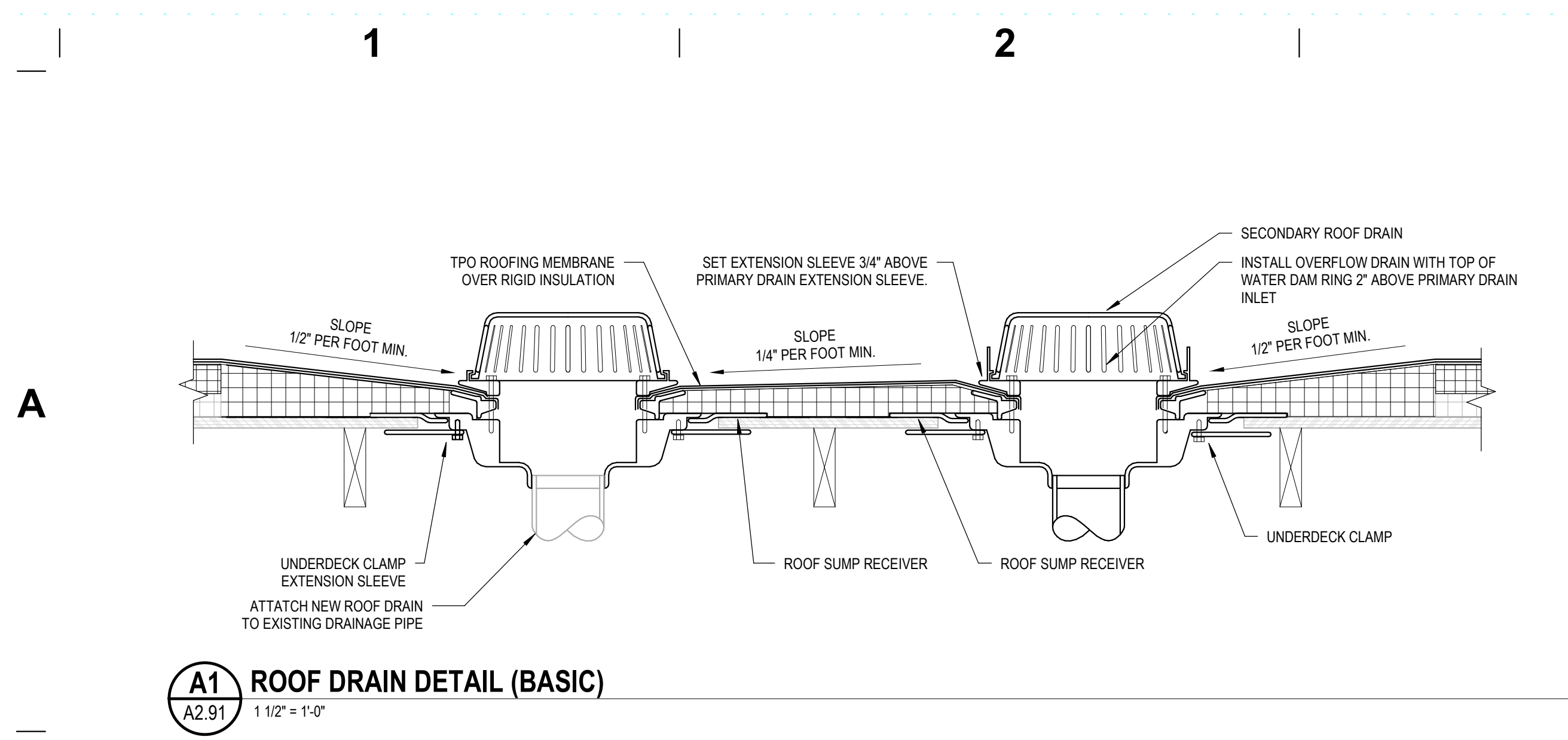
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 AREA 'B' ROOF PLAN

Revisions:

Project No: 24076
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No: **A2.14**





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
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 075423.B TPO SHEET FLASHING
- 075423.E ROOF INSULATION
- 075423.I TERMINATION BAR
- 075423.J FASTENER AND PLATE
- 075423.L ROOFING MANUFACTURER'S RECOMMENDED SEALANT
- 075423.O MANUFACTURED ROOF PAD
- 076200.A PARAPET COPING
- 076200.Z CLEAT

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.02 PRESERVE & PROTECT EXISTING BRICK WALL
- 2.49 EXISTING SHEATHING AND UNDERLAYMENT
- 2.51 EXISTING EPS ROOF INSULATION TO REMAIN. PRESERVE AND PROTECT.
- 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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CHRISTIAN F. COLEMAN

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Sheet No: **A2.91**

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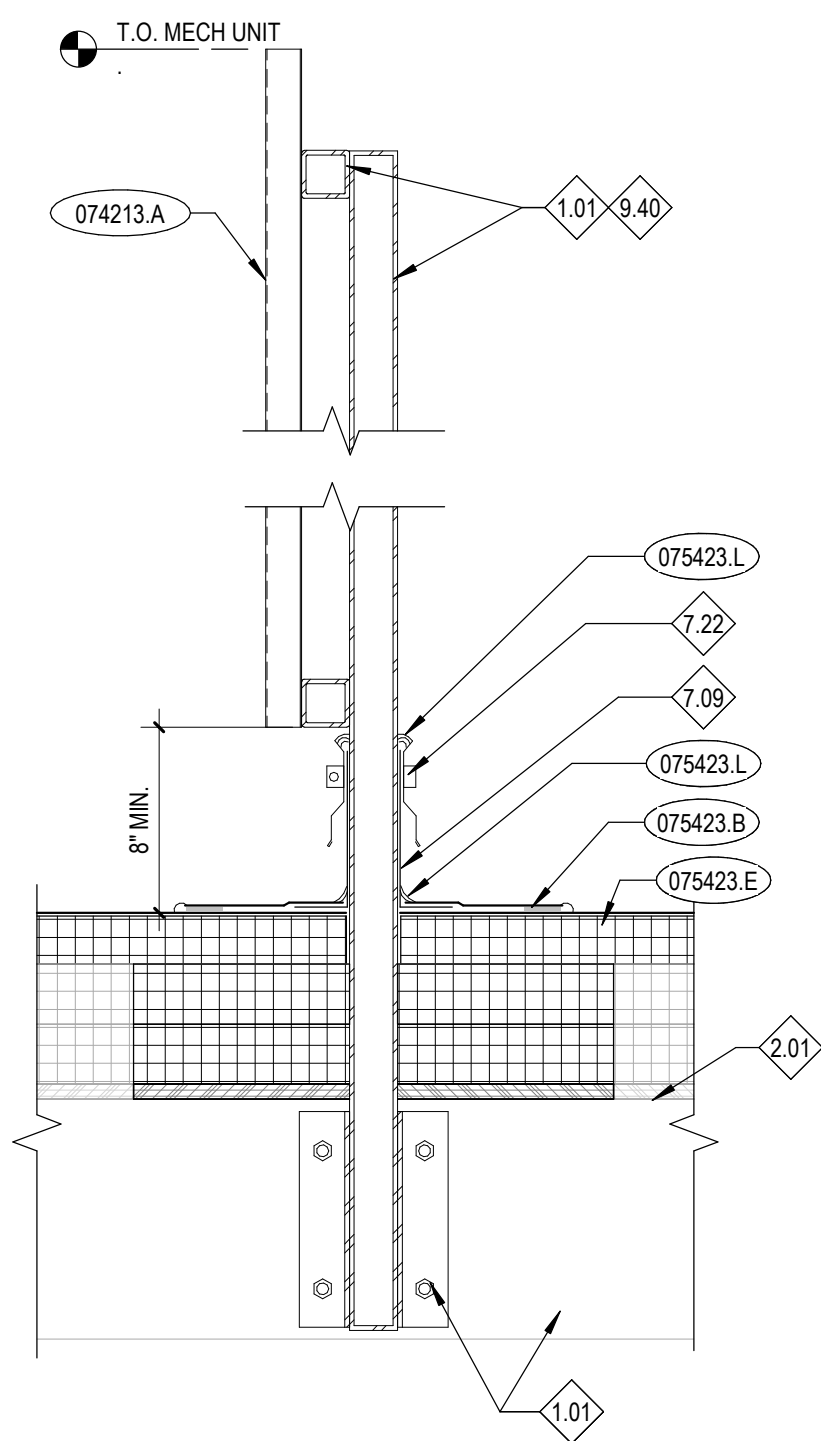
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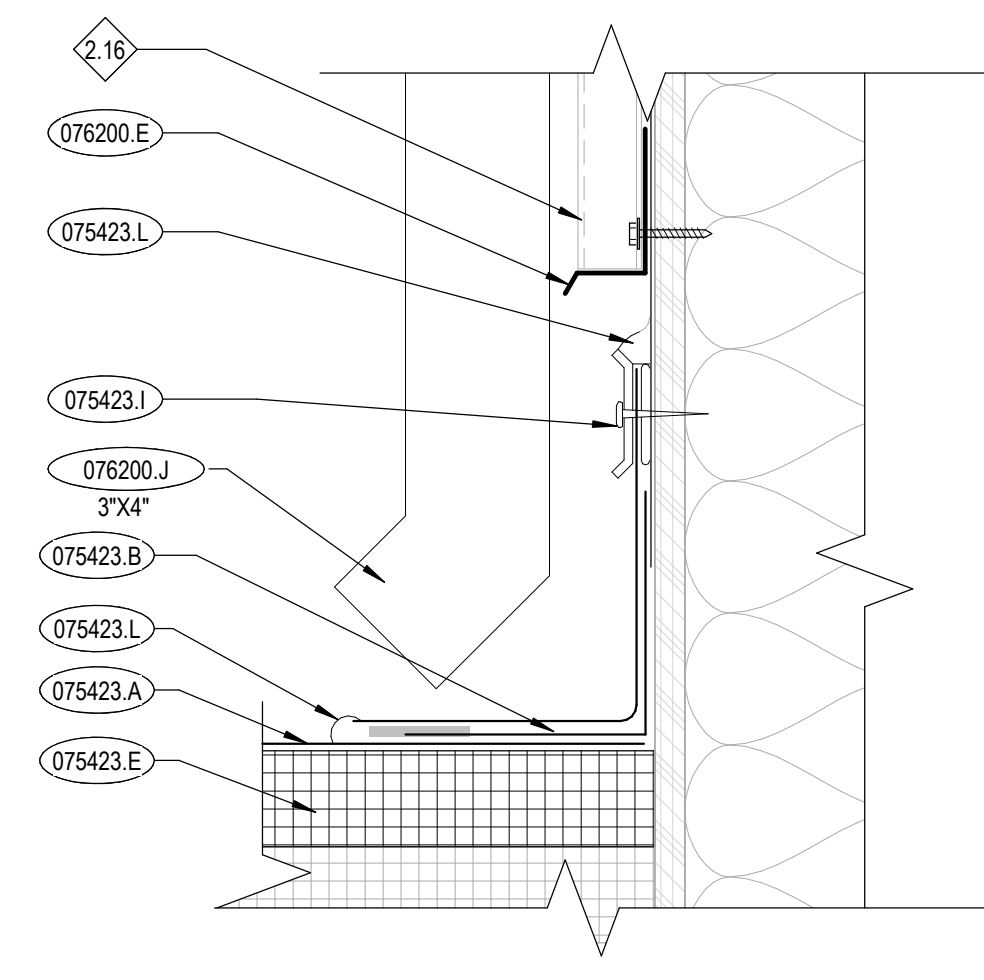
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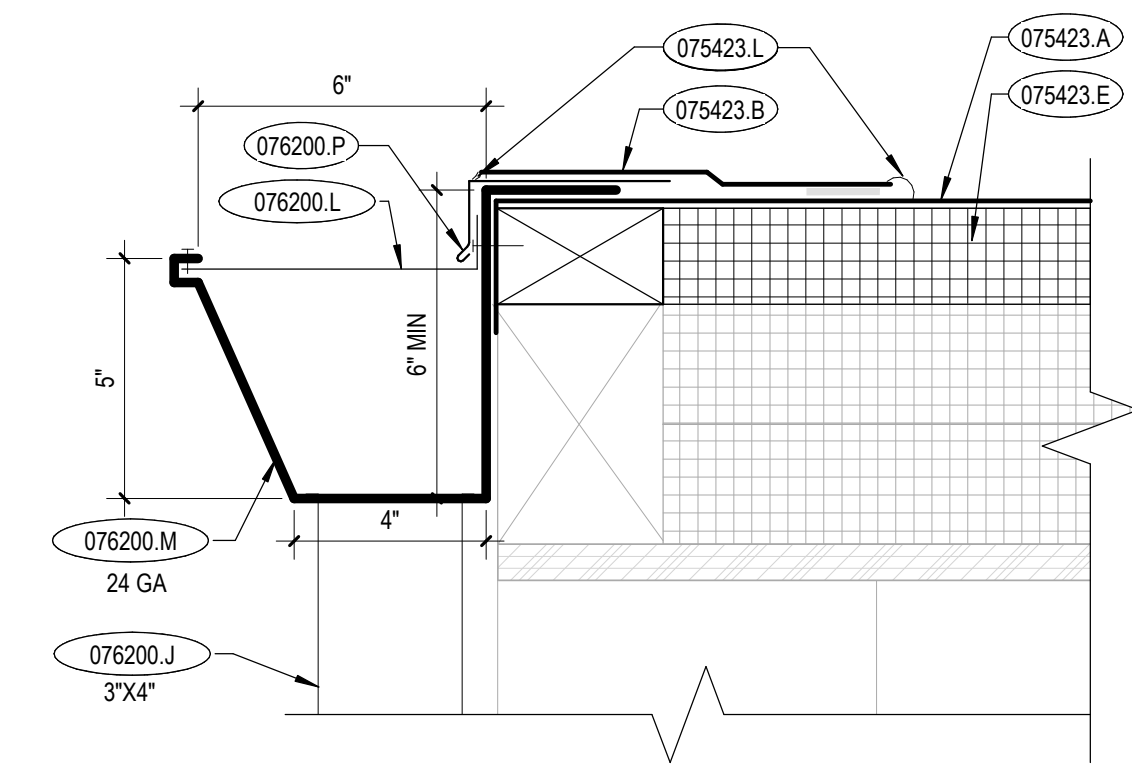
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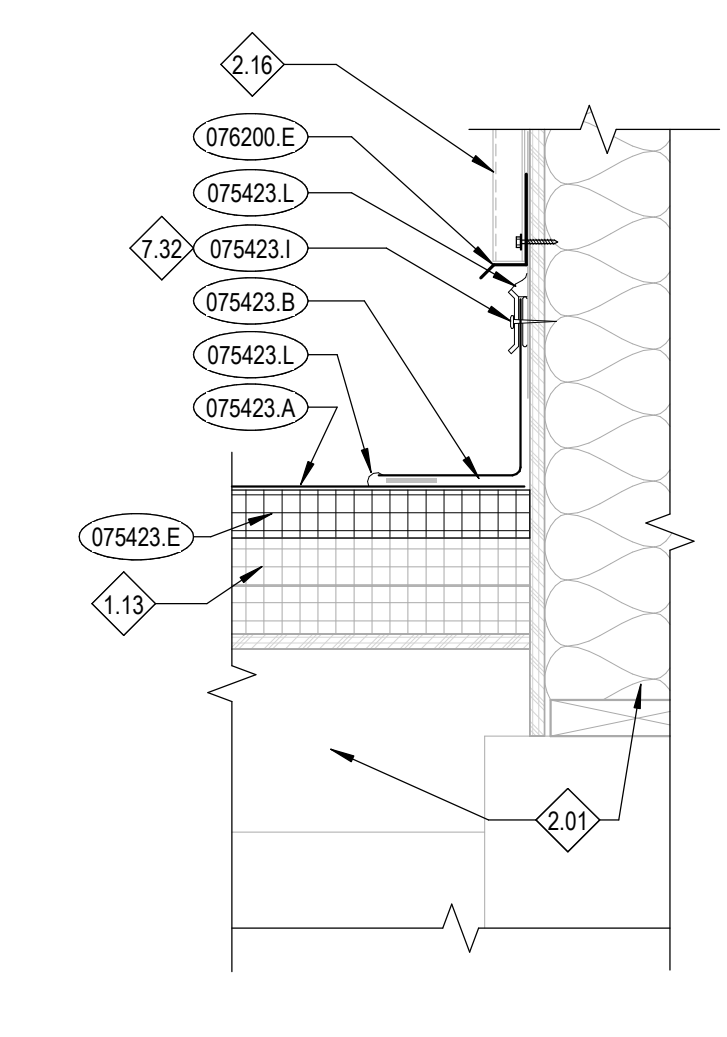
B1 MECHANICAL SCREEN CONNECTION DETAIL
 1 1/2" = 1'-0"



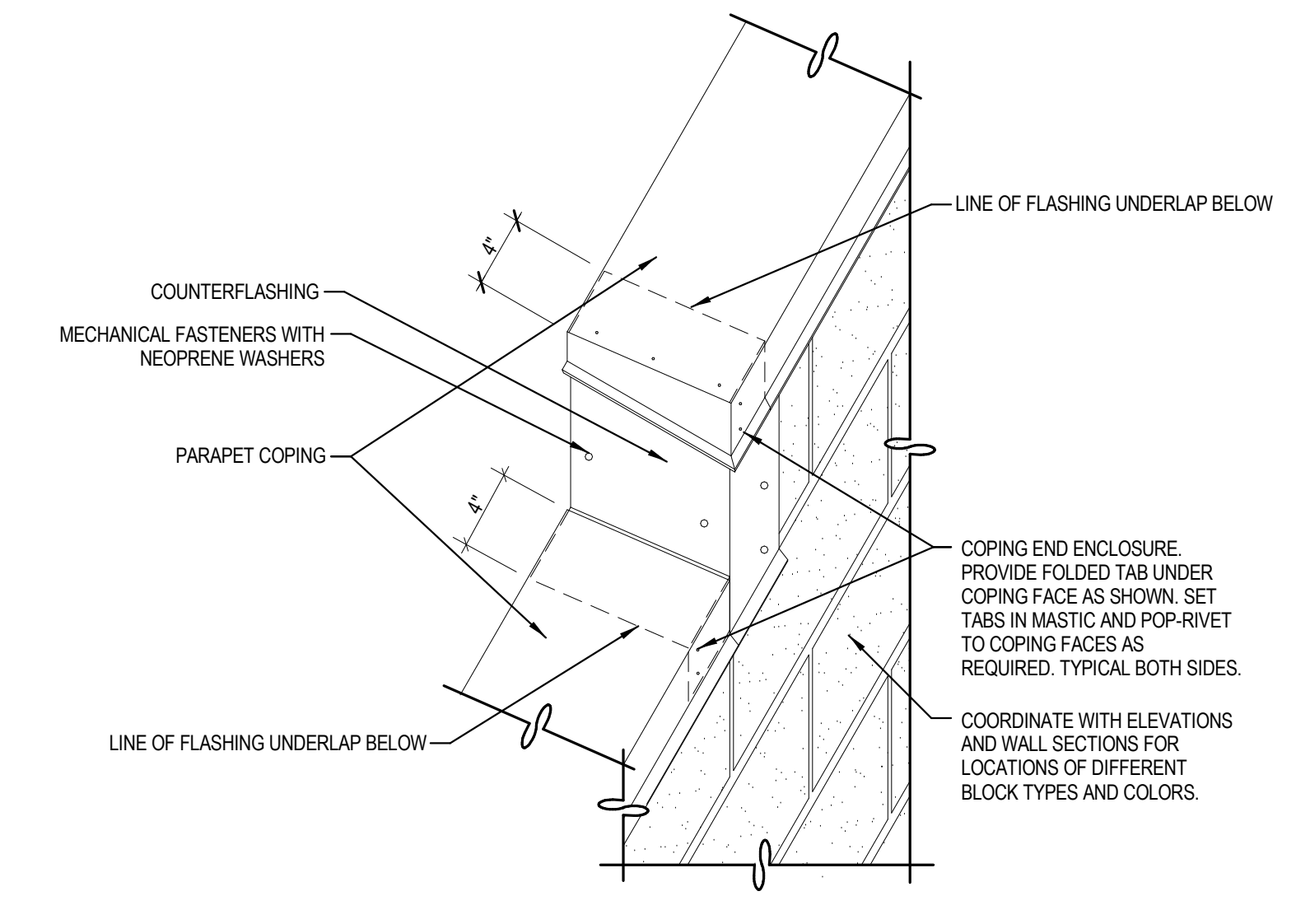
B2 DOWNSPOUT @ ROOF
 3" = 1'-0"



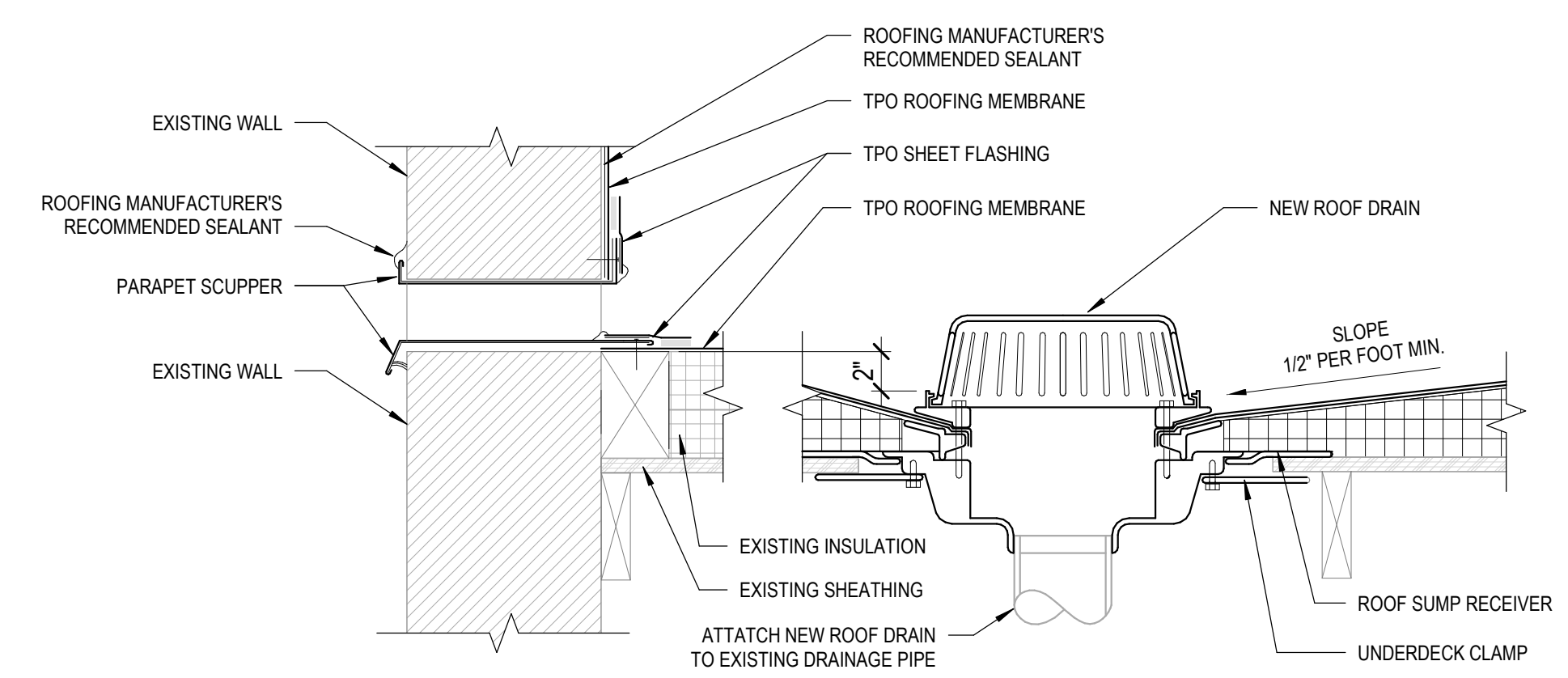
B3 HANGING GUTTER @ TPO
 3" = 1'-0"



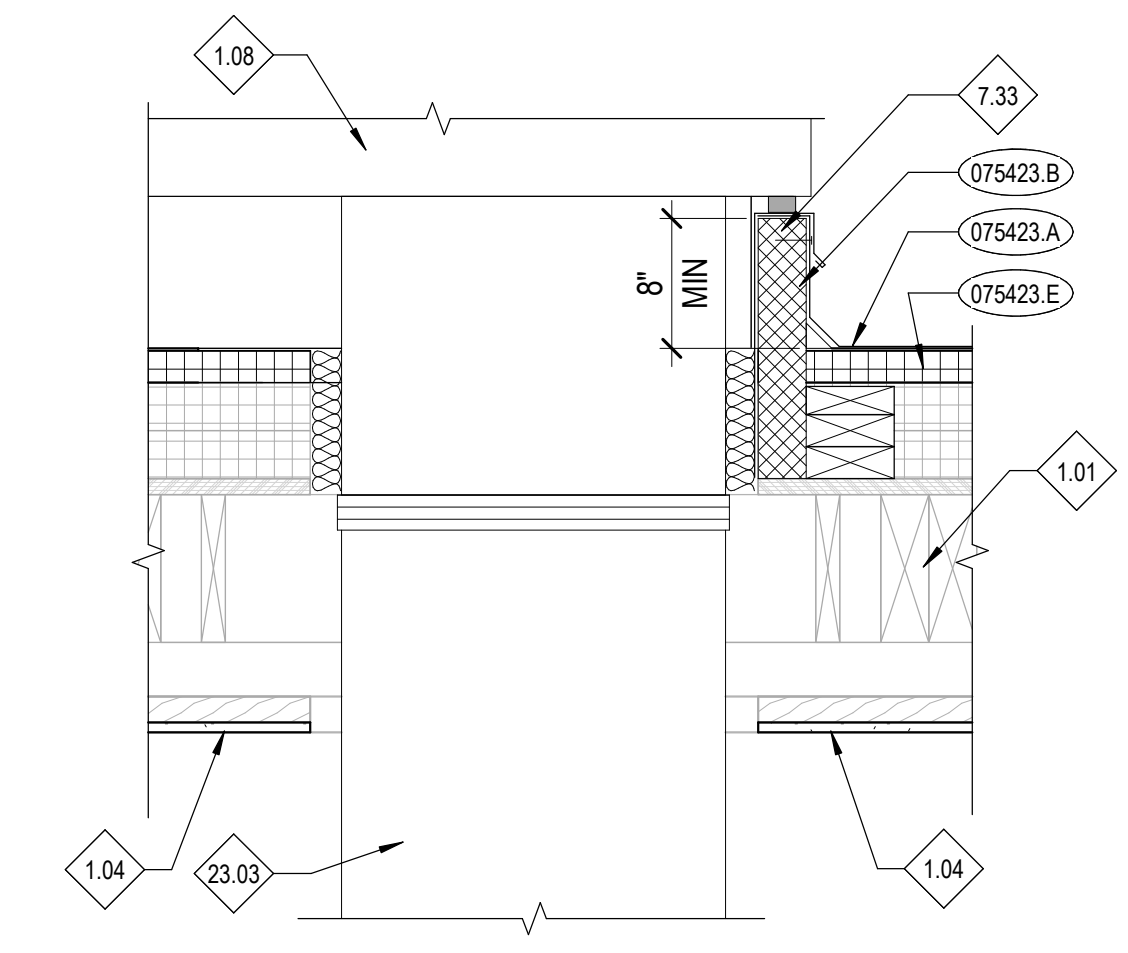
B5 ROOF @ METAL PANEL
 1 1/2" = 1'-0"



B6 COPING DETAIL
 1 1/2" = 1'-0"



C1 THROUGH WALL SCUPPER @ ROOF DRAIN
 1 1/2" = 1'-0"



C3 DUCT PENETRATION @ ROOF
 1" = 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

- 074213.A EXPOSED FASTENER LAP SEAM METAL WALL PANEL
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 075423.B TPO SHEET FLASHING
- 075423.E ROOF INSULATION
- 075423.I TERMINATION BAR
- 075423.L ROOFING MANUFACTURER'S RECOMMENDED SEALANT
- 076200.E FLASHING AND DRIP EDGE
- 076200.J DOWNSPOUT
- 076200.L GUTTER STRAP
- 076200.M CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 076200.P DRIP EDGE

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 1.04 COORDINATE WITH REFLECTED CEILING PLAN.
- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- 1.13 VERIFY EXISTING SLOPE. TAPEDED INSULATION SLOPES AND RESLOPE ROOF TO DRAIN.
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION.
- 2.16 EXISTING METAL WALL PANEL TO BE PRESERVED AND PROTECTED.
- 7.09 LINE OF FLASHING UNDERLAP BELOW.
- 7.22 FLASHING CLAMP.
- 7.32 INSTALL TERMINATION BAR AS CLOSE AS POSSIBLE TO THE BOTTOM OF THE METAL PANEL FOR WEATHER TIGHT SEAL.
- 7.33 PREFABRICATED OR FIELD INSTALLED & INSULATED METAL CURB ANCHORED TO STRUCTURE.
- 9.40 PAINT TO MATCH EXISTING STEEL SIDING.
- 23.03 NEW DUCT, COORDINATE WITH MECHANICAL DRAWINGS.

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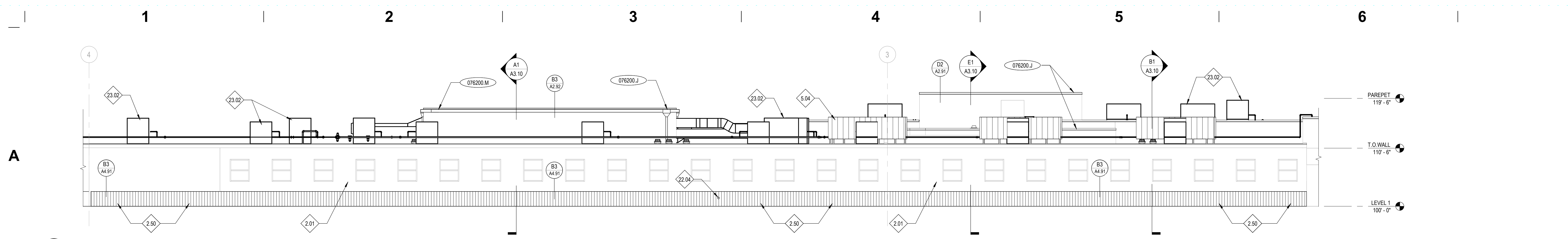
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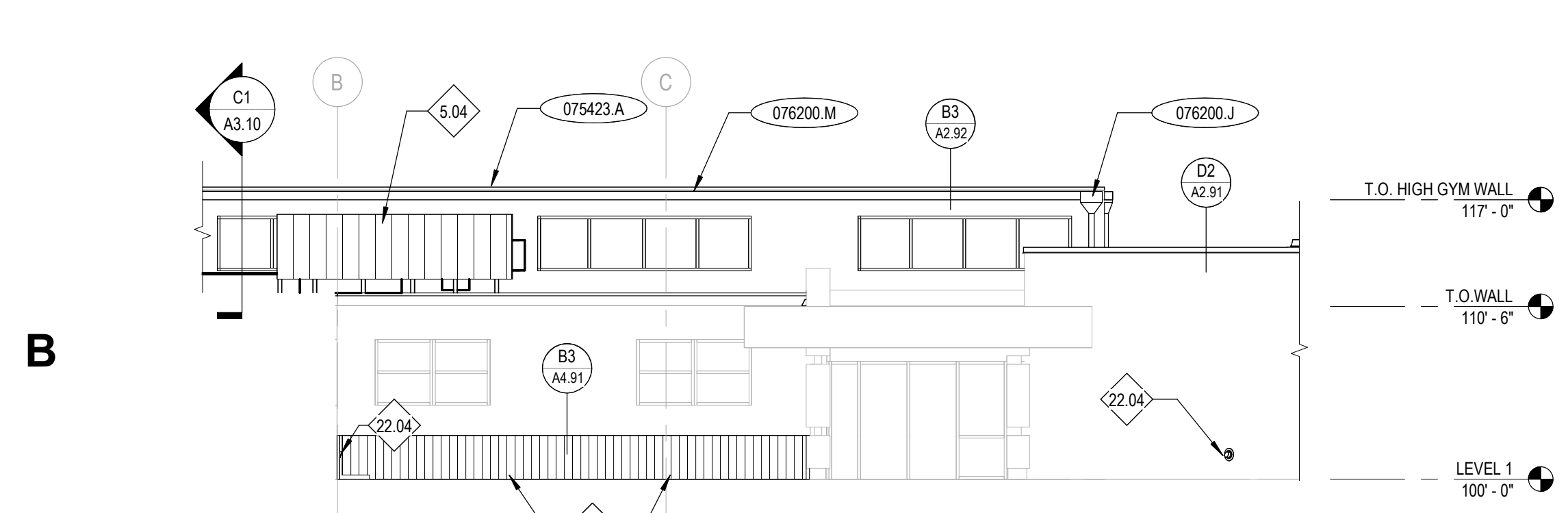
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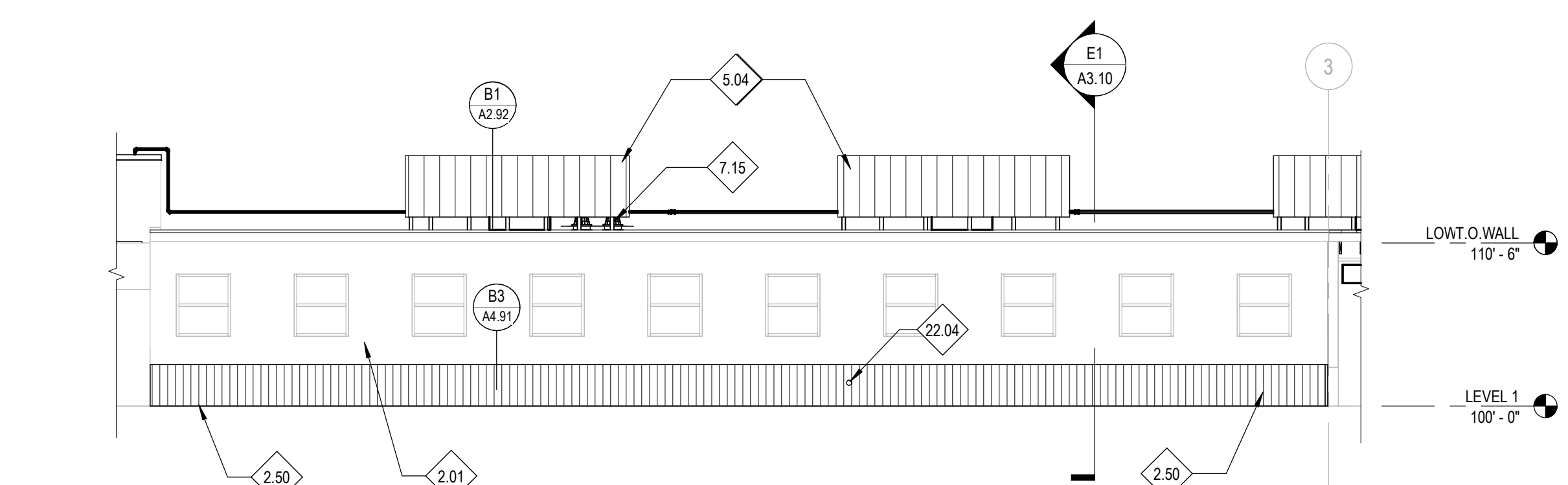
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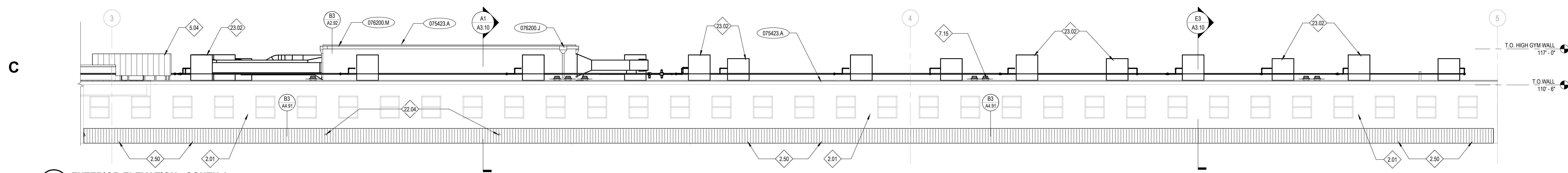
A1 EXTERIOR ELEVATION - NORTH 1
A3.01 1/8" = 1'-0"



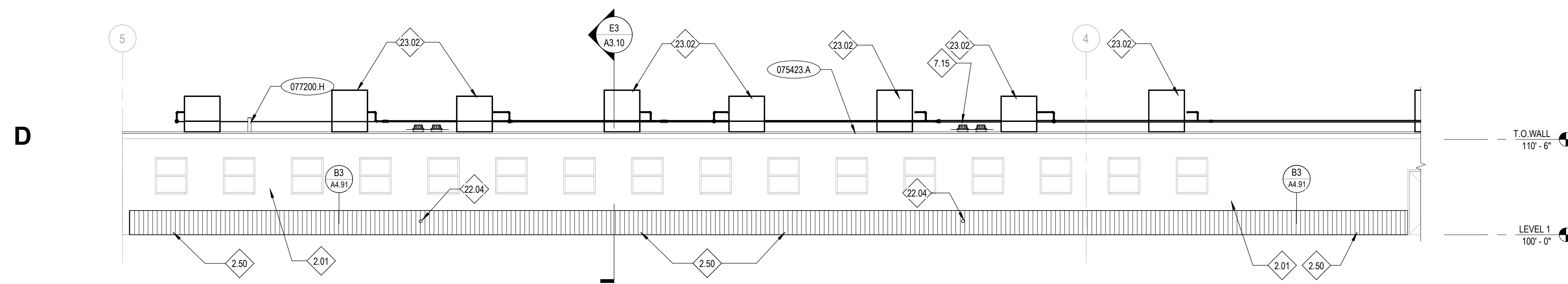
B1 EXTERIOR ELEVATION - WEST
A3.01 1/8" = 1'-0"



B3 EXTERIOR ELEVATION - SOUTH 2
A3.01 1/8" = 1'-0"



C1 EXTERIOR ELEVATION - SOUTH 1
A3.01 1/8" = 1'-0"



D1 EXTERIOR ELEVATION - NORTH 2
A3.01 1/8" = 1'-0"

E

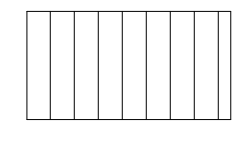
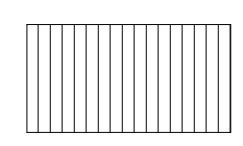
KEYNOTES

- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 076200.J DOWNSPOUT
- 076200.M CONTINUOUS FASCIA GUTTER. TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 077200.H FALL ARREST ANCHOR. FLASH SIMILAR TO DETAIL C1/A2.91.

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.50 NEW SHEATHING AND PRE-FINISHED METAL WALL PANEL. PAINTED TO MATCH EXISTING
- 5.04 MECHANICAL SCREENING WALL. RE B1/A2.92
- 7.15 NEW ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
- 22.04 OVERFLOW ROOF DRAIN. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS
- 23.02 NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

LEGEND

-  HATCH PATTERN INDICATES AREAS WITH CORRUGATED METAL WALL PANELS.
-  HATCH PATTERN INDICATES AREAS WITH PREFINISHED METAL WALL PANELS.

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Sheet:
BUILDING ELEVATIONS

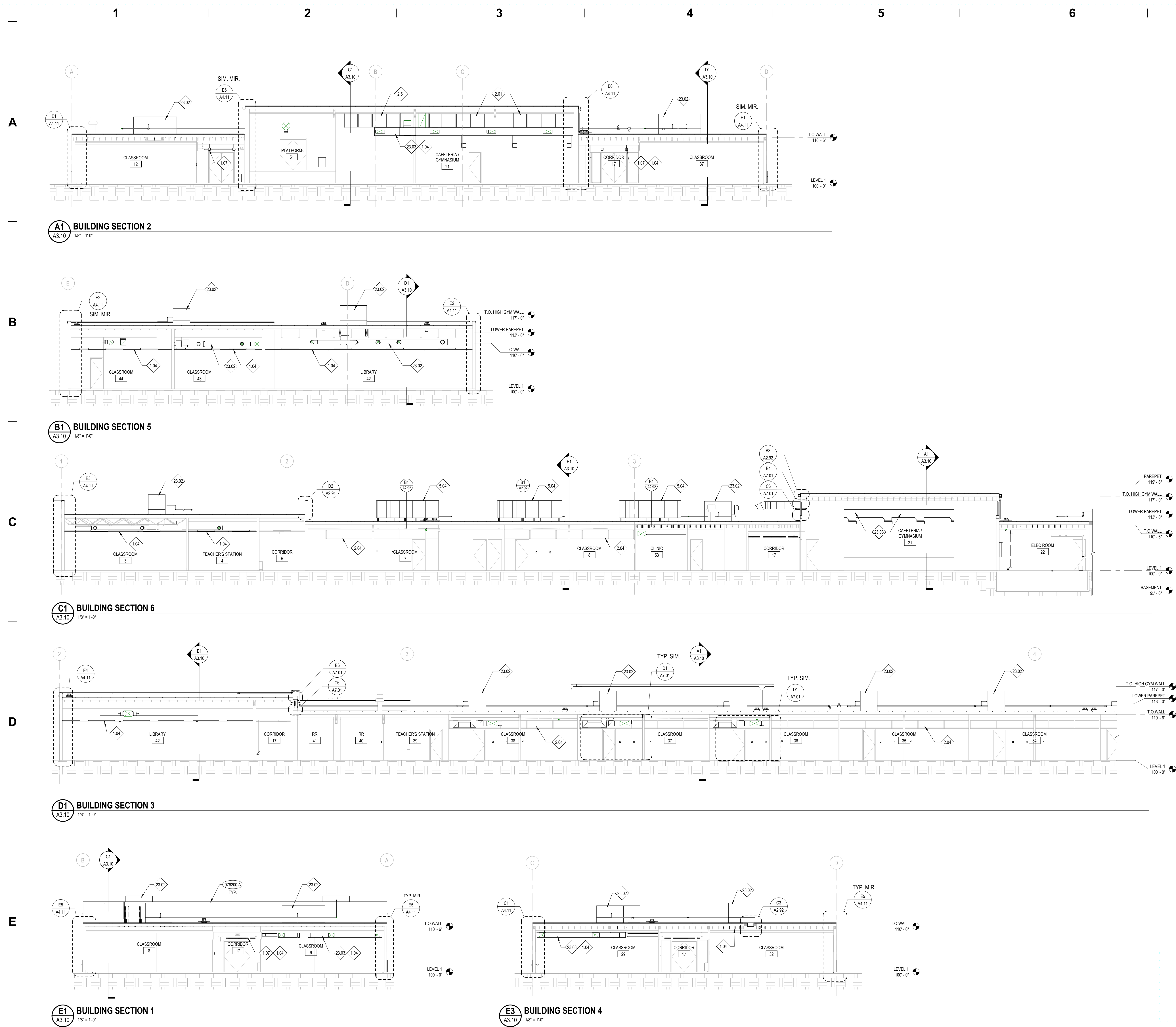
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GENERAL NOTES

- A. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- B. DO NOT SCALE DRAWINGS.
- C. FOR ALL EXTERIOR WORK, RE. EXTERIOR ELEVATIONS.
- D. FOR ROOF FRAMING COORDINATE WITH STRUCTURAL DRAWINGS.

REFERENCE NOTES

- 1.04 COORDINATE WITH REFLECTED CEILING PLAN.
- 1.07 LIGHTING FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
- 2.04 PRESERVE AND PROTECT EXISTING WINDOW SYSTEM.
- 2.61 REMOVE EXISTING WINDOW SYSTEM. PROVIDE NEW CLEARSTORY WINDOW. RE SHEET A7.01.
- 5.04 MECHANICAL SCREENING WALL. RE B1/A2.92.
- 23.02 NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.
- 23.03 NEW DUCT. COORDINATE WITH MECHANICAL DRAWINGS.

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BUILDING SECTIONS

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 BRIAN F. COLEMAN

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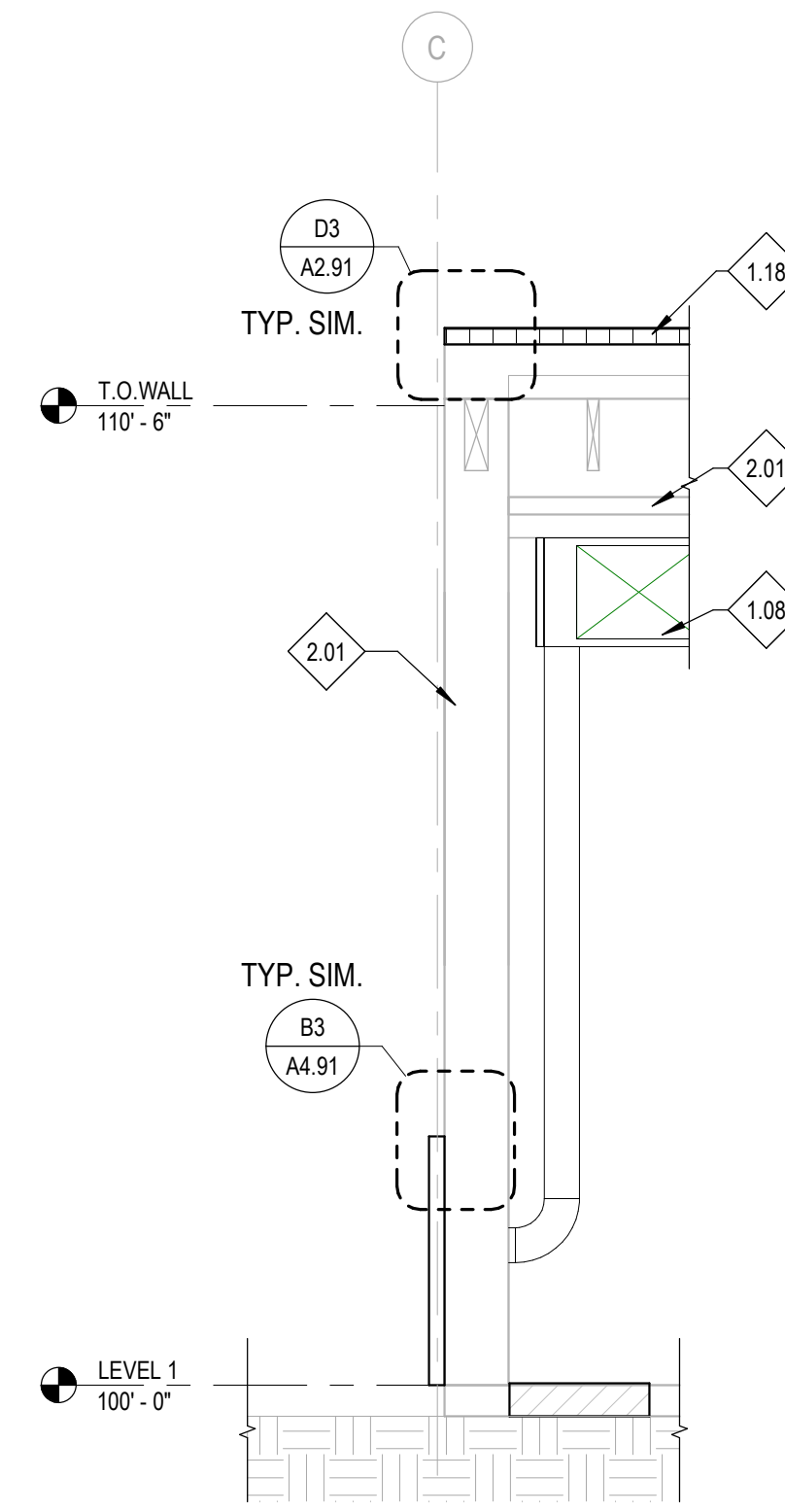
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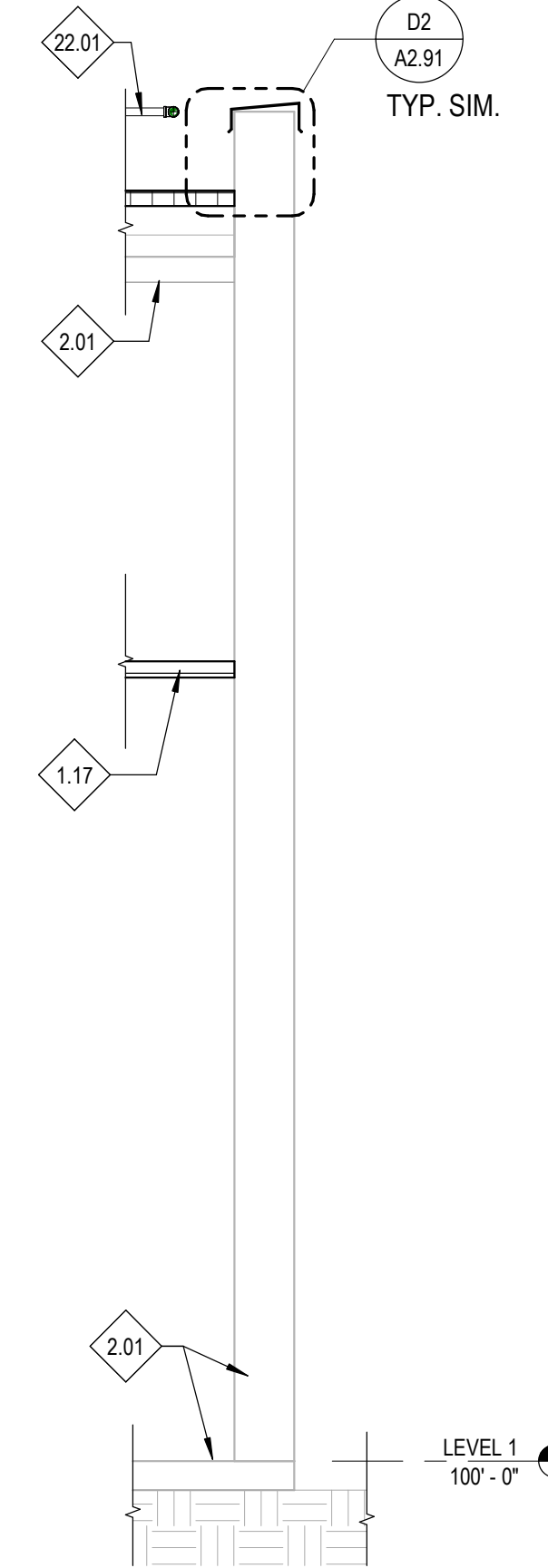
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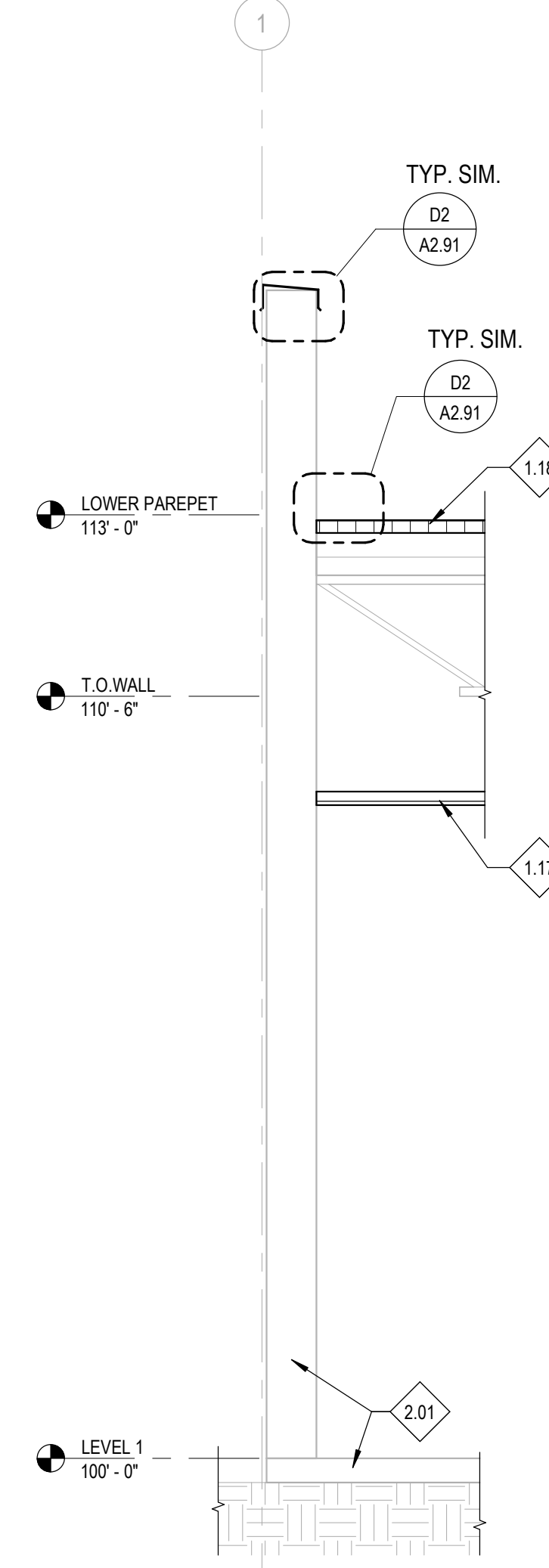
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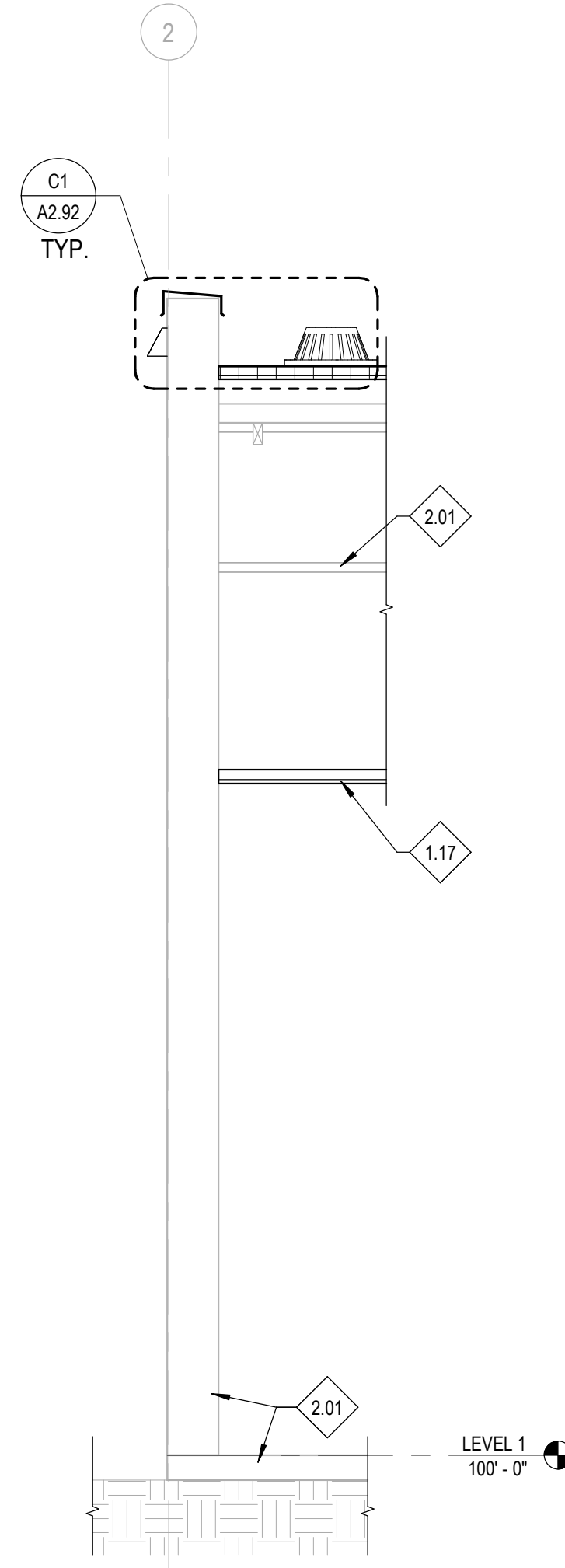
C1 WALL SECTION - 7
A4.11 1/2" = 1'-0"



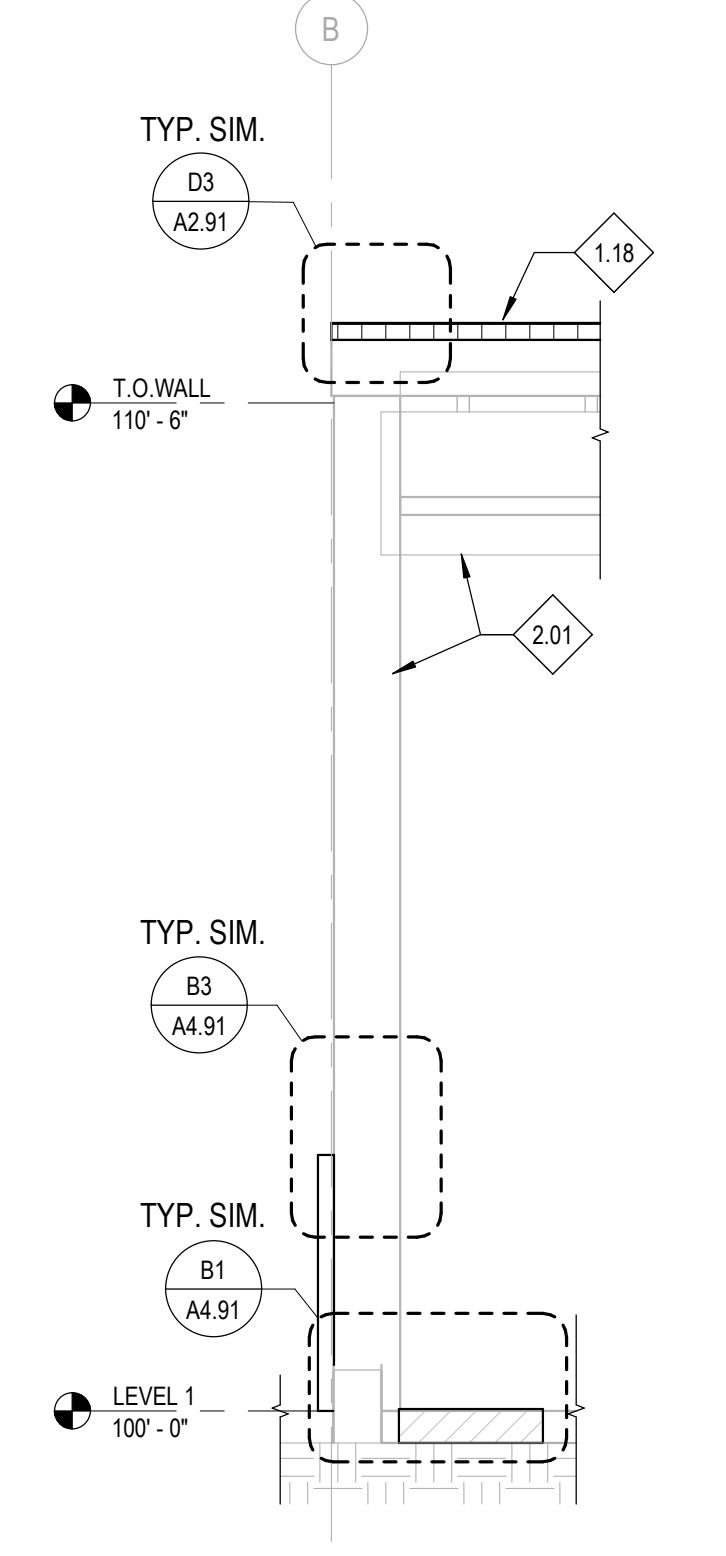
E2 WALL SECTION - 2
A4.11 1/2" = 1'-0"



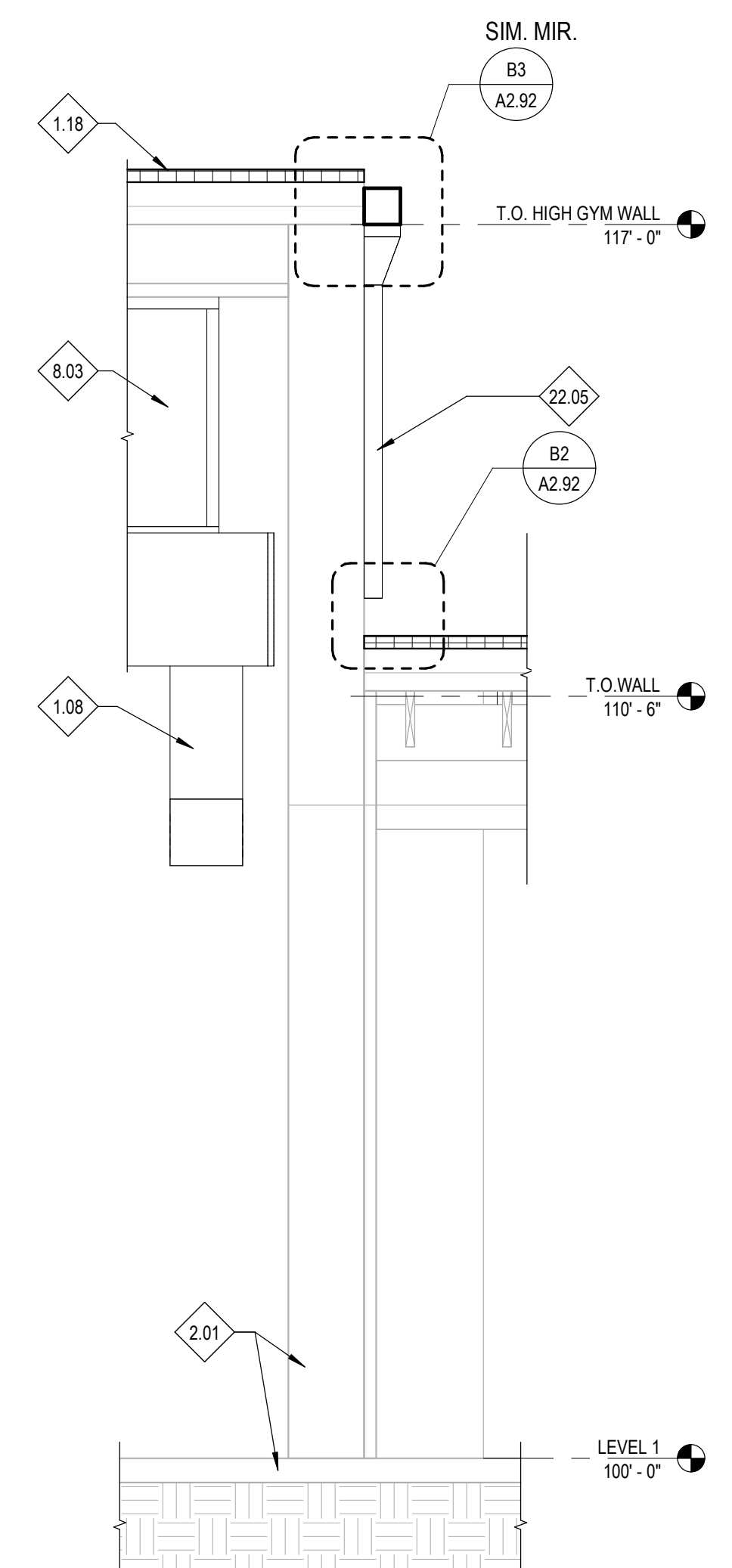
E3 WALL SECTION - 3
A4.11 1/2" = 1'-0"



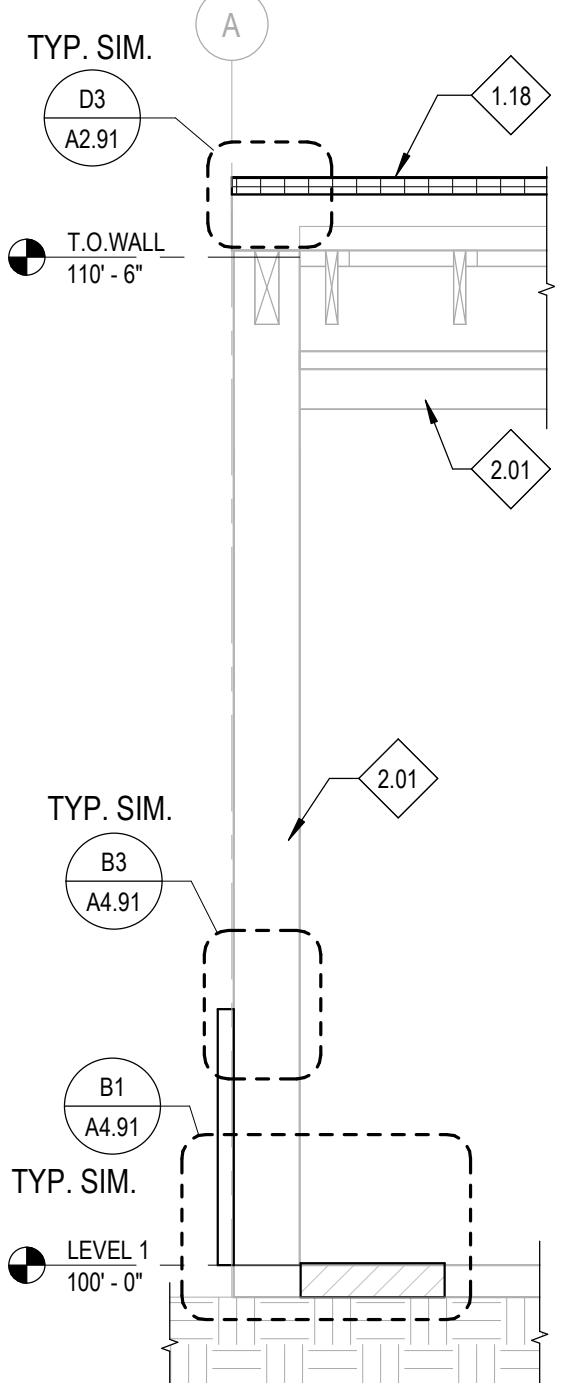
E4 WALL SECTION - 4
A4.11 1/2" = 1'-0"



E5 WALL SECTION - 5
A4.11 1/2" = 1'-0"



E6 WALL SECTION - 6
A4.11 1/2" = 1'-0"



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

KEYNOTES

REFERENCE NOTES

- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- 1.17 RE. CEILING PLAN FOR CEILING TYPES
- 1.18 REFER D6/A2.91 FOR ROOF COMPOSITION
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 8.03 WINDOW SYSTEM AND/OR DOOR SYSTEM. RE: FLOOR PLANS AND WINDOW/DOOR TYPES
- 22.01 COORDINATE WITH PLUMBING DRAWINGS.
- 22.05 ROOF DRAIN DOWNSPOUT. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS.

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EXTERIOR WALL SECTIONS

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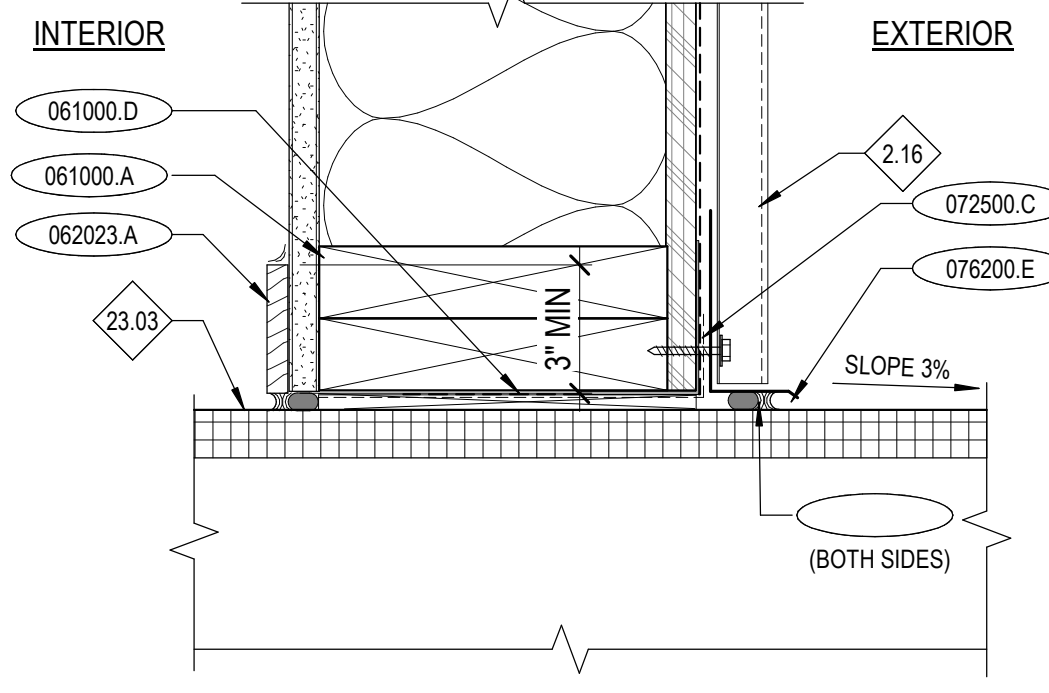
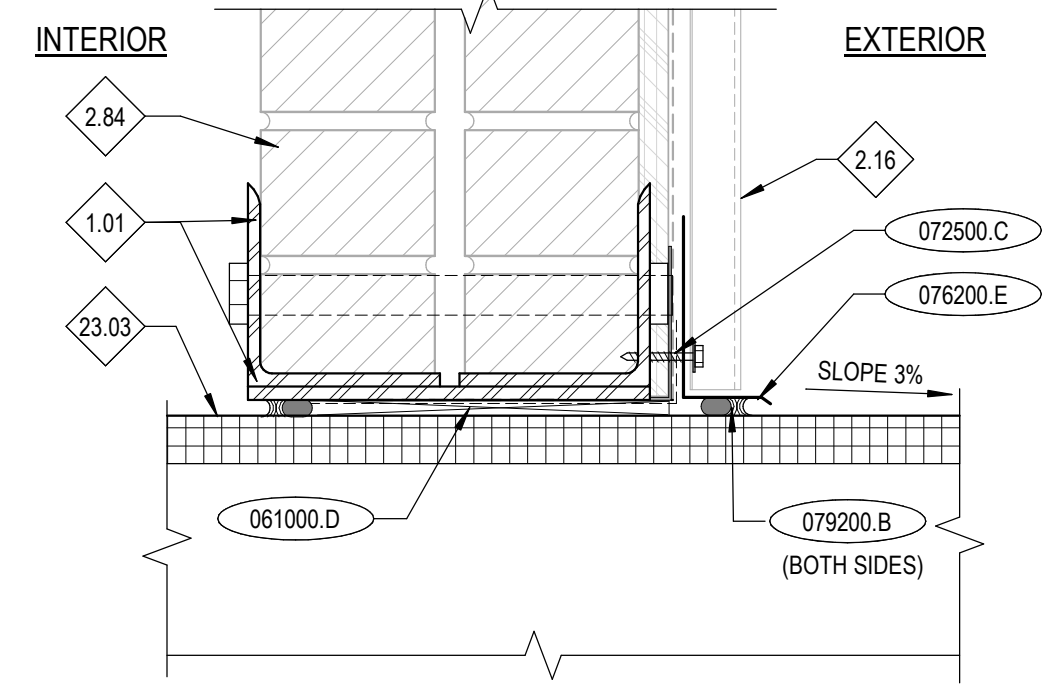
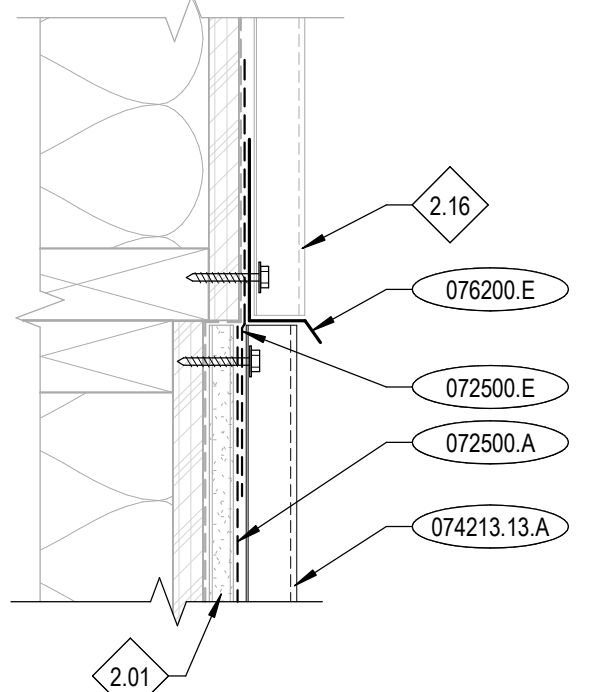
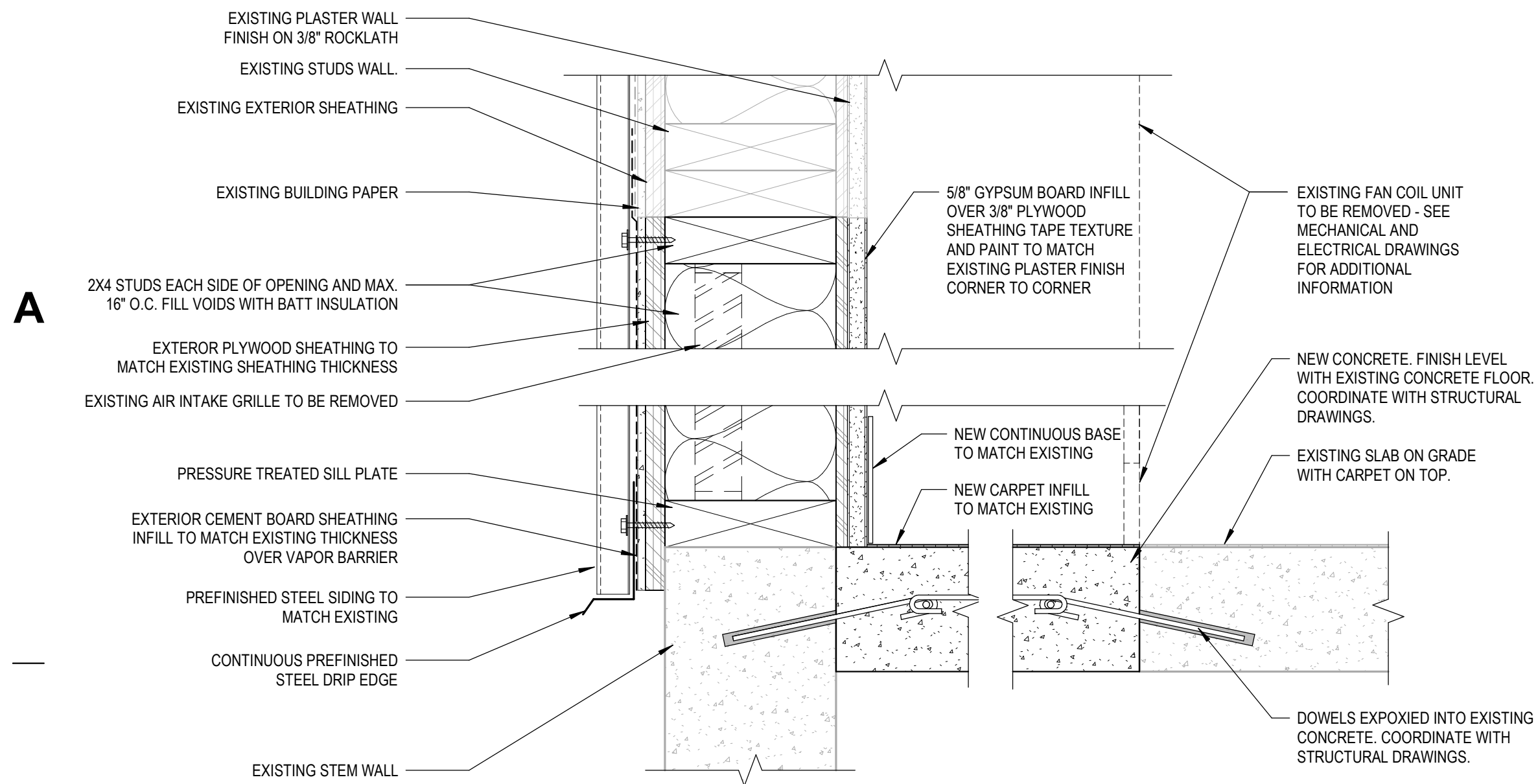
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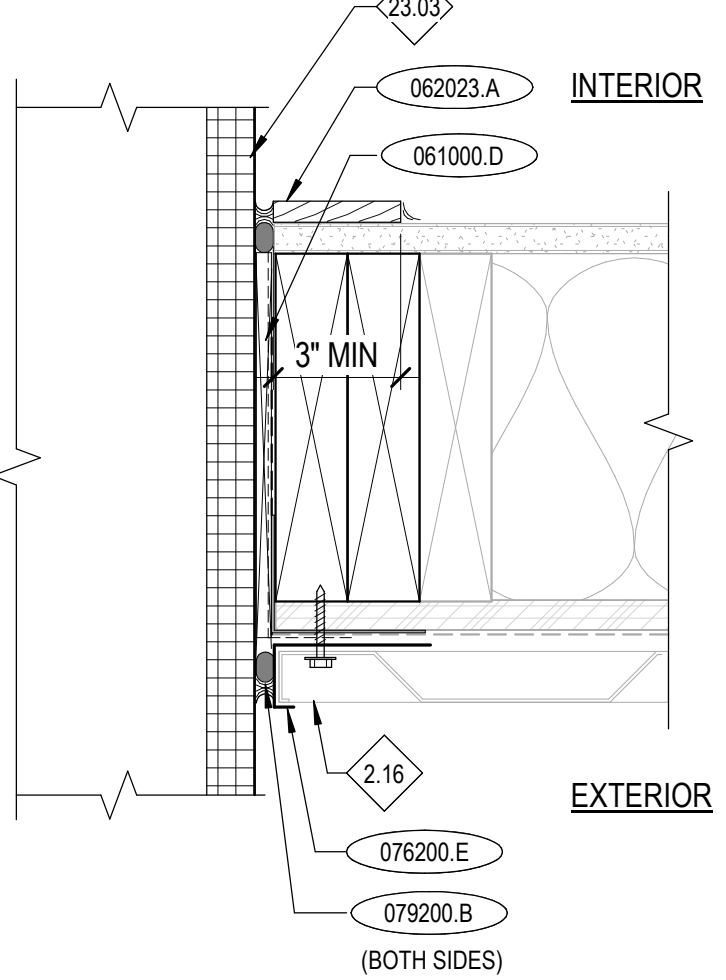
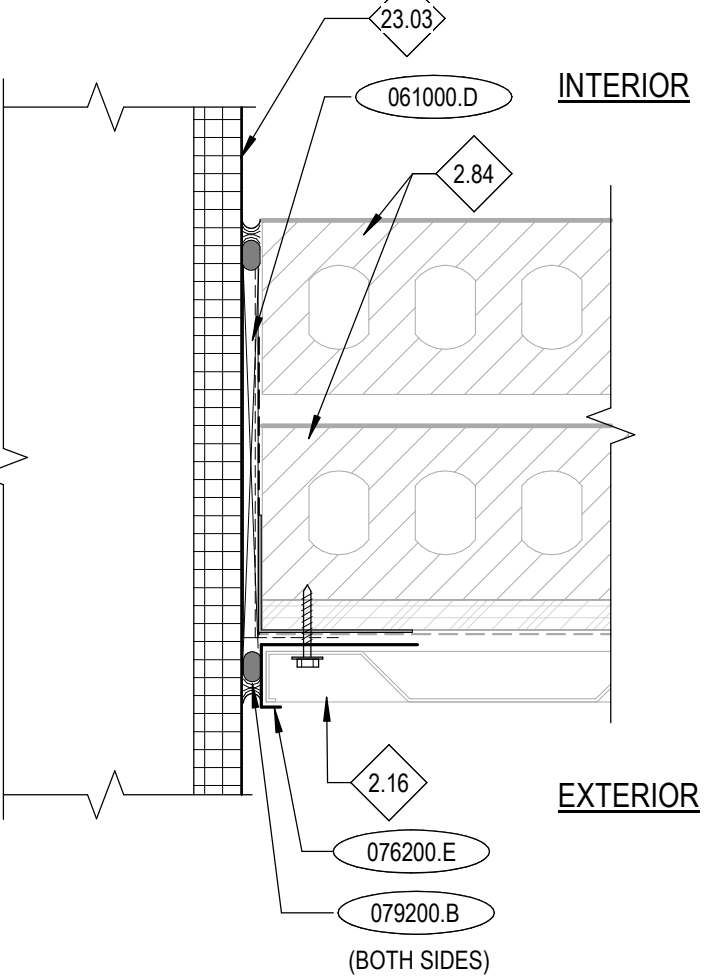


A5 DUCT HEAD @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

A6 DUCT HEAD @ EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

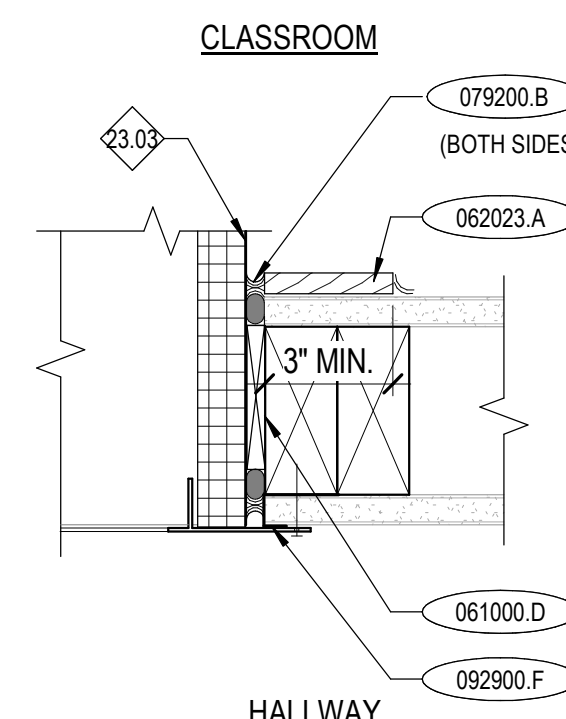
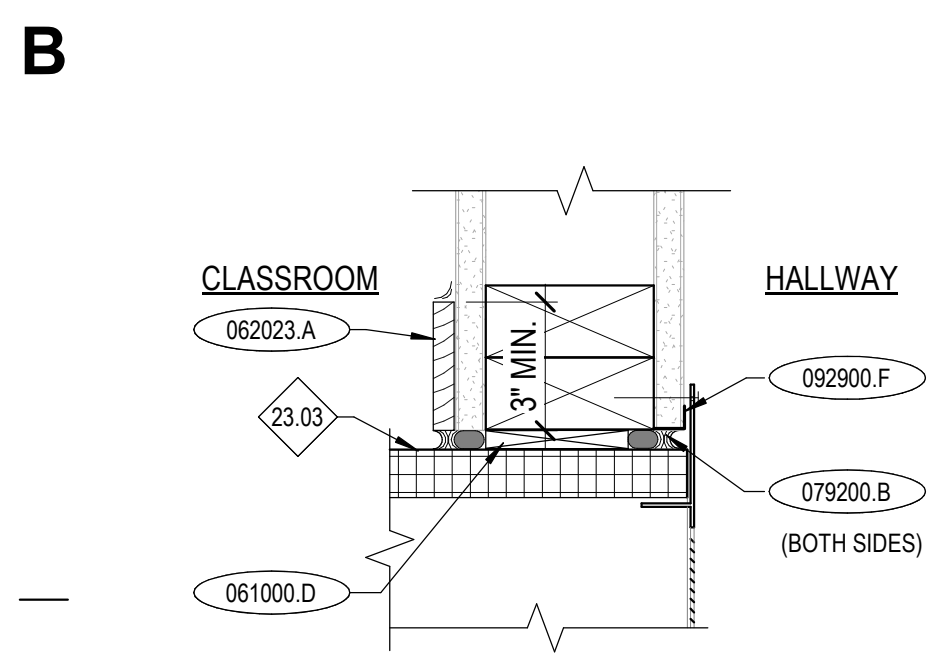
B1 FANCOIL UNIT AND INTAKE GRILL REMOVAL AND INFILL
A4.91 3" = 1'-0"

B3 METAL SIDING TRANSITION
A4.91 3" = 1'-0"



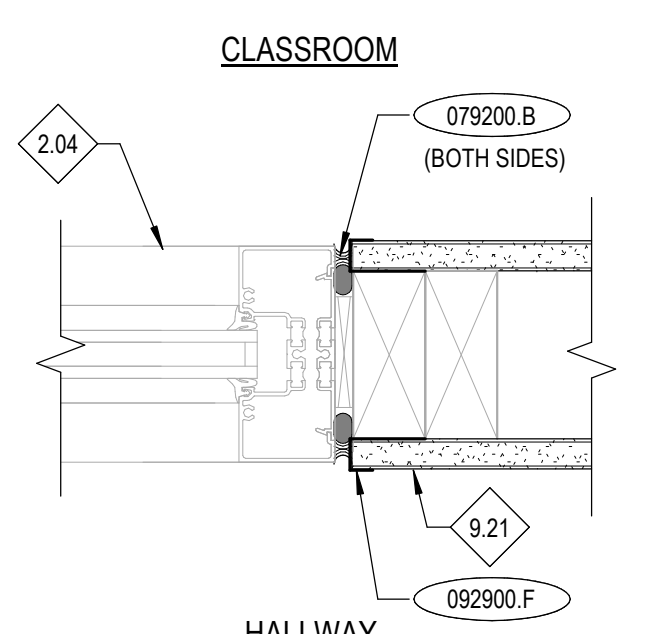
C5 DUCT JAMB @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

C6 DUCT JAMB @ EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

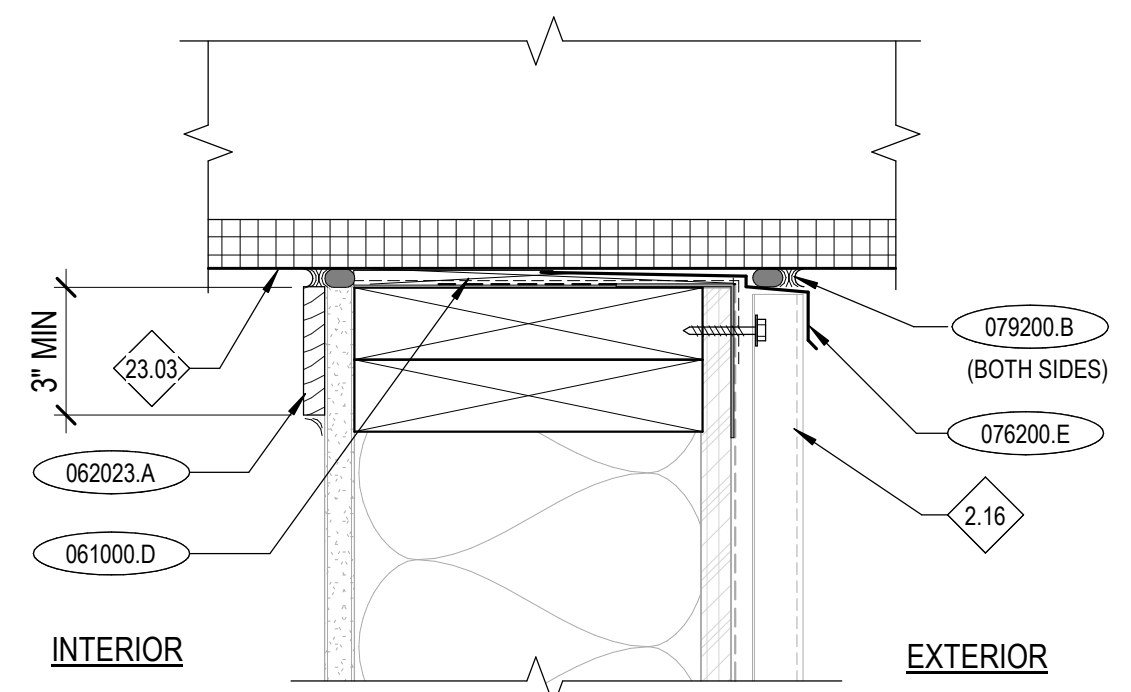
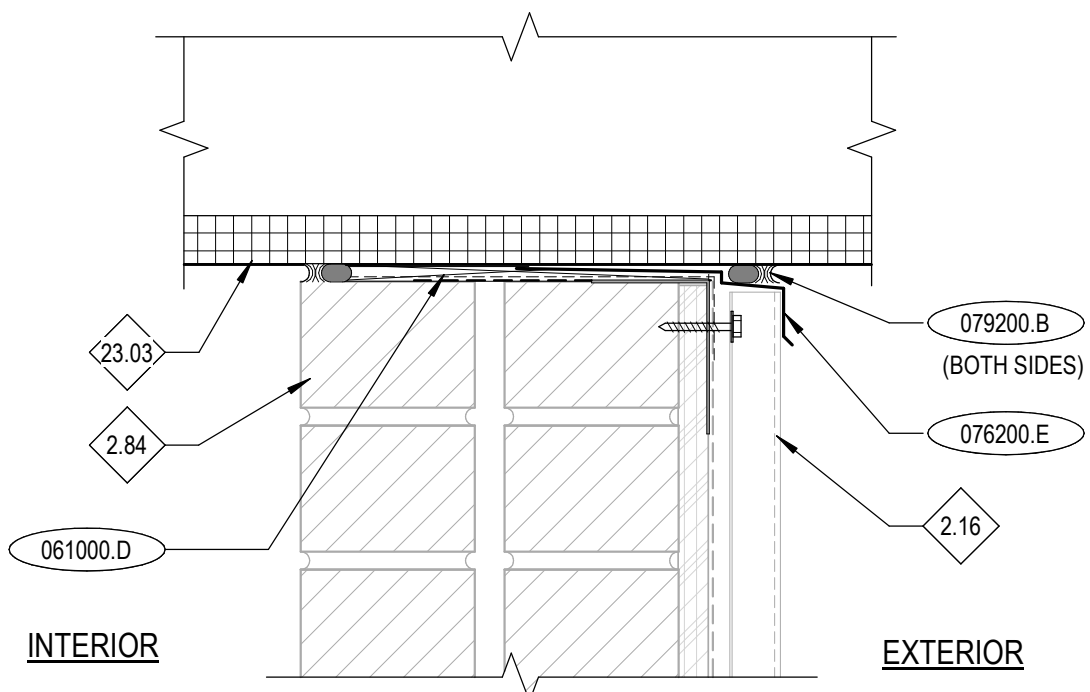


C1 DUCT HEAD/SILL @ GYP
A4.91 3" = 1'-0"

C2 DUCT JAMB @ GYP
A4.91 3" = 1'-0"



C4 WINDOW JAMB @ GYP INFILL
A4.91 3" = 1'-0"



D5 DUCT SILL @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

D6 DUCT SILL @ EXTERIOR METAL SIDING
A4.91 3" = 1'-0"

GENERAL NOTES

- A. FOR SIZE AND CONNECTION DETAILS OF STEEL FRAMING COMPONENTS (BEAMS AND COLUMNS), STEEL JOISTS AND GIRDERS, STEEL DECKING AND OTHER STEEL SECTIONS, REFERENCE THE STRUCTURAL DRAWINGS.
- B. FOR REINFORCING OF CONCRETE SLABS, FOOTINGS AND FOUNDATIONS, COORDINATE WITH STRUCTURAL DRAWINGS.
- C. FOR WINDOW TYPES, COORDINATE WITH FLOOR PLANS.
- D. PROVIDE BITUMINOUS DAMPROOFING ON ALL EXTERIOR FOUNDATION WALLS AS PER SPECIFICATION DIVISION 7. PROVIDE BELOW GRADE ONLY.
- E. PAINT ALL EXPOSED TO VIEW STRUCTURAL STEEL, DECK, AND ASSOCIATED STRUCTURAL ITEMS.
- F. PAINT ALL EXPOSED TO VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT AND ASSOCIATED ITEMS, PLUMBING AND FIRE PROTECTION LINES AND ALL ASSOCIATED ITEMS, UNLESS NOTED OTHERWISE.
- G. RE. FLOOR PLANS FOR WALL TYPES.
- H. FLOOR JOISTS, BEAMS, ROOF DECK, AND SUPPORTING COLUMNS SHALL BE FIRE-RESISTIVE RATED PER ASSEMBLIES IN DIV. 7 SECTION "SPRAYED FIRE RESISTIVE-RATED MATERIALS."
- I. WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- J. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- K. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND COMPLIANCE REQUIREMENTS.
- L. DO NOT SCALE DRAWINGS.

KEYNOTES

- 061000.A DIMENSIONAL LUMBER
- 061000.D SHIM AS REQUIRED.
- 062023.A WOOD TRIM. PAINT TO MATCH EXISTING.
- 072500.A WEATHER RESISTIVE BARRIER
- 072500.C SELF ADHERED FLEXIBLE FLASHING
- 072500.E LAP SELF ADHERED FLEXIBLE FLASHING OVER EXISTING AND NEW WEATHER BARRIER
- 074213.13.A FORMED METAL WALL PANELS
- 076200.E FLASHING AND DRIP EDGE
- 079200.B JOINT SEALANT
- 092900.F METAL J BEAD

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION.
- 2.04 PRESERVE AND PROTECT EXISTING WINDOW SYSTEM.
- 2.16 EXISTING METAL WALL PANEL TO BE PRESERVED AND PROTECTED.
- 2.84 PRESERVE AND PROTECT EXISTING MASONRY WALL SYSTEM TO REMAIN. REPAIR DAMAGED AREAS TO MATCH ADJACENT WALL FINISH.
- 9.21 PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER TO MATCH EXISTING.
- 23.03 NEW DUCT. COORDINATE WITH MECHANICAL DRAWINGS.

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600 Harrison St.
Twin Falls, ID 83301

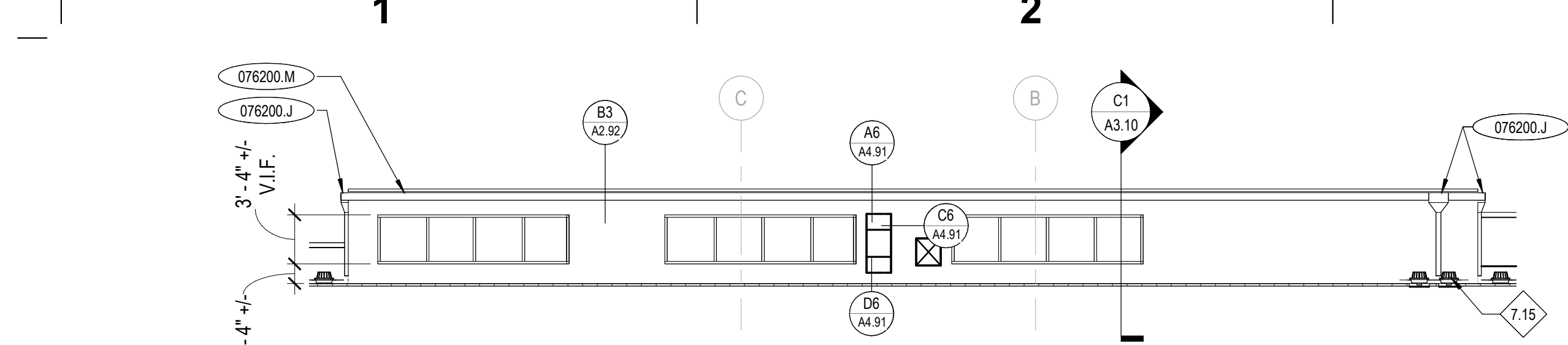
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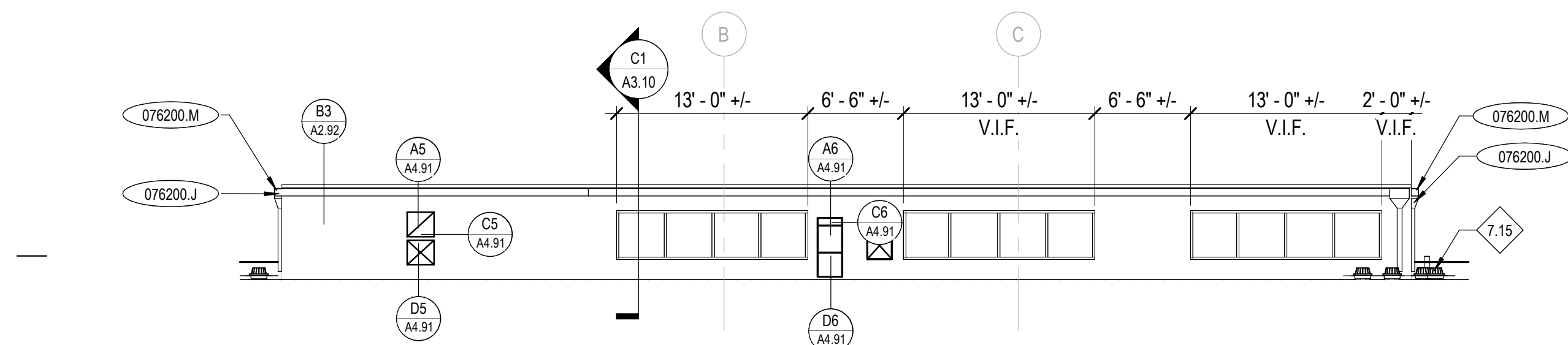
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Project No: 24076
Drawn By: NB
Checked By: PR
Date: 01/15/2025

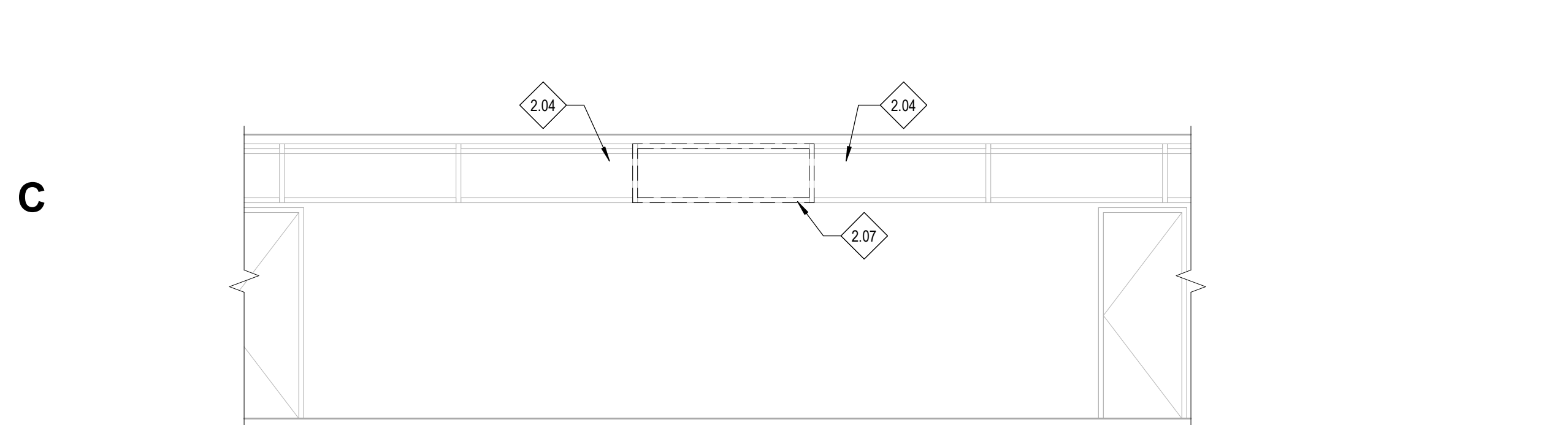
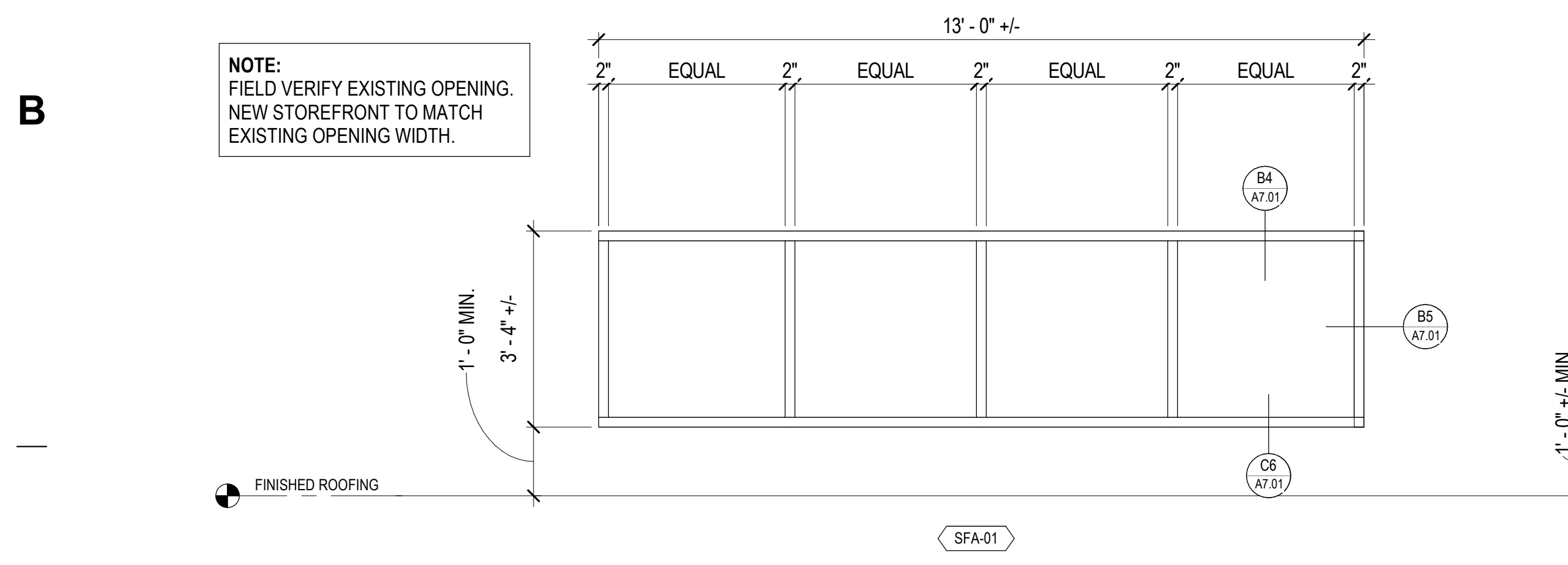
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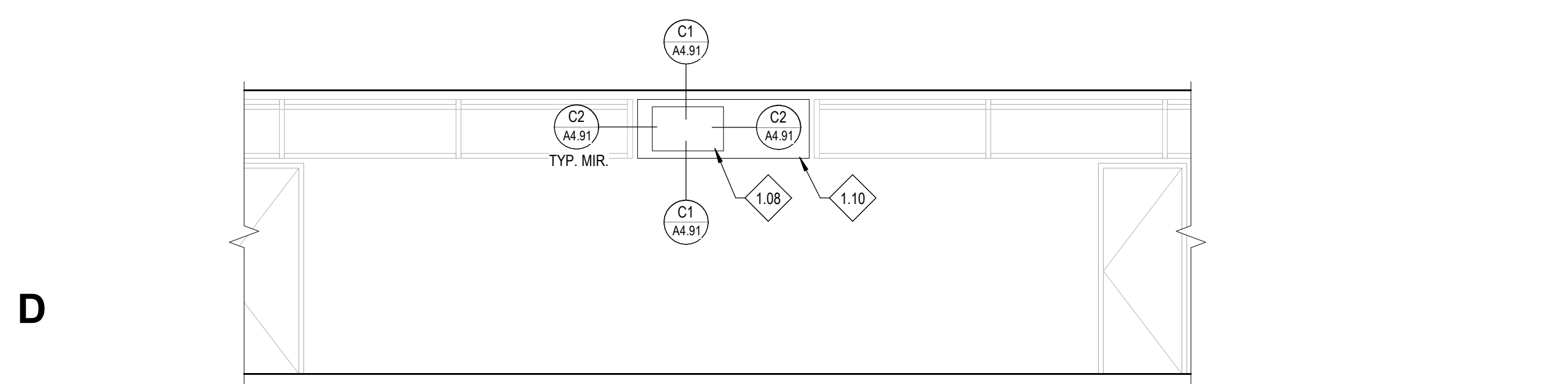
A1 GYMNASIUM WINDOWS - EAST
A7.01 1/8" = 1'-0"



B1 GYMNASIUM WINDOWS - WEST
A7.01 1/8" = 1'-0"



C1 TYP - HALLWAY CLEARSTORY DEMO
A7.01 1/4" = 1'-0"



D1 TYP - HALLWAY CLEARSTORY INFILL
A7.01 1/4" = 1'-0"

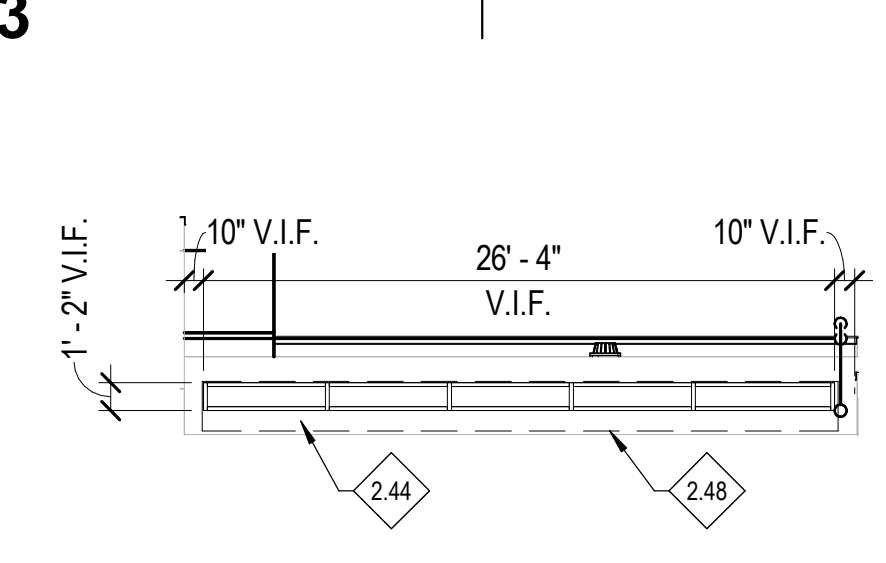
DOOR SCHEDULE									
DOOR				FRAME			REMARKS		
DOOR#	TYPE	WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	FINISH	HARDWARE SET	REMARKS
1	A	3'-0"	7'-0"	HM	HM-01	HM	P	HW-1	

HW SET 1:

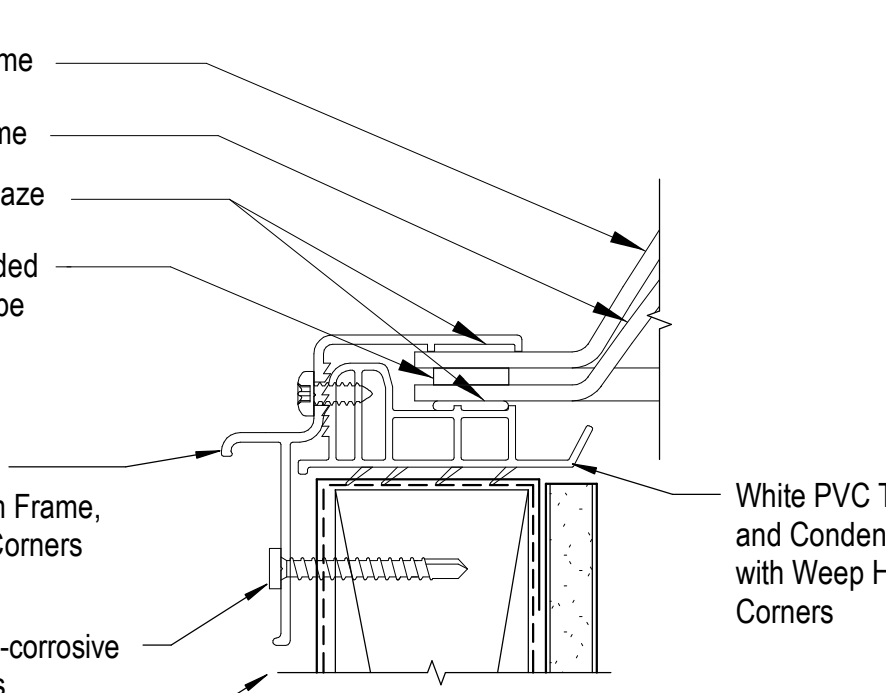
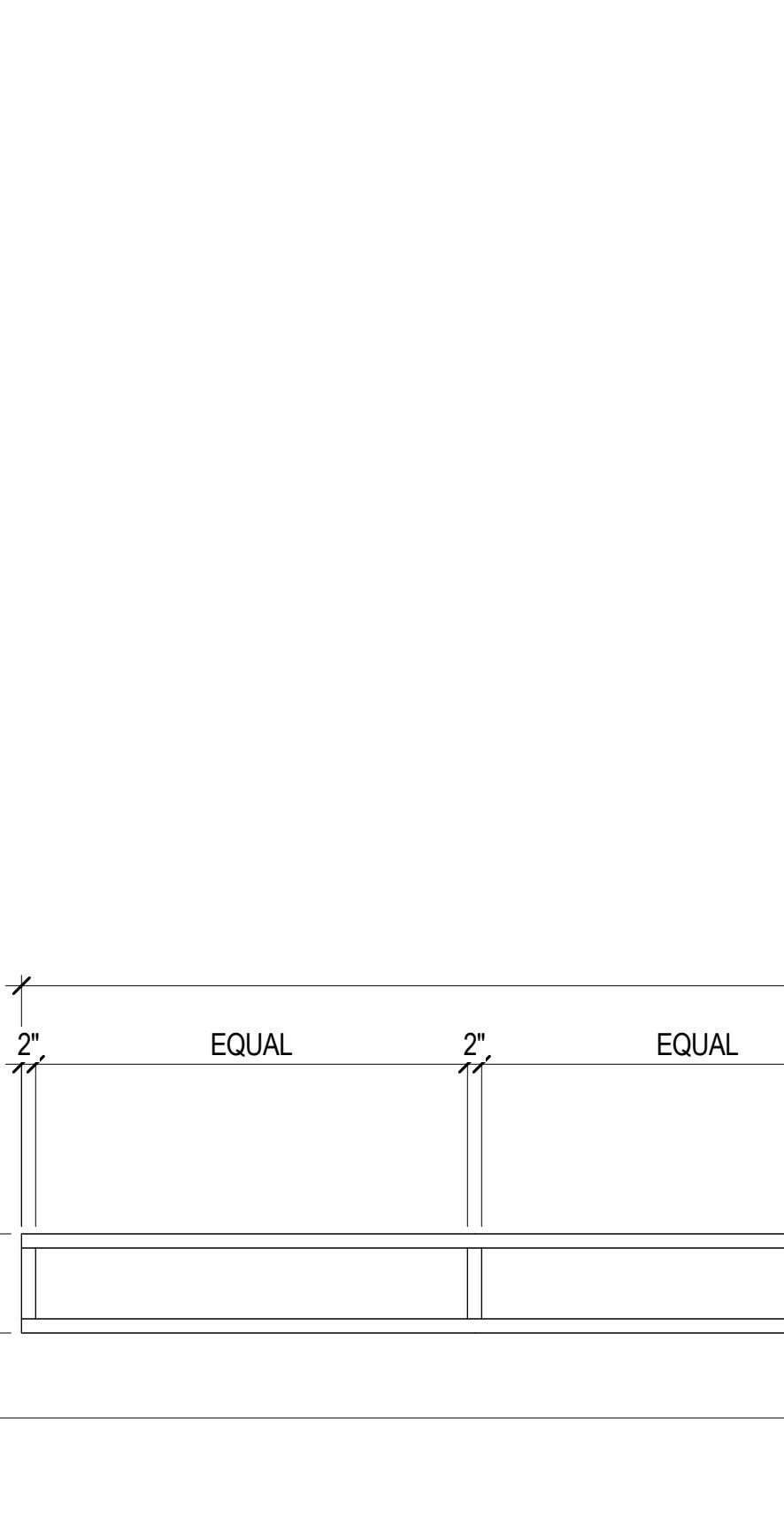
FOR USE ON DOOR #: 1
EACH TO HAVE:

3	EA	HINGE	58B1 4.5 X 4.5	652	IVE
1	EA	SURFACE CLOSER	4040P HEDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	485SK PSR	6K	ZER
1	EA	PANIC HARDWARE	S2108 X V4908A	630	BES
1	EA	CYLINDER	12E72-S2-RP	626	BES

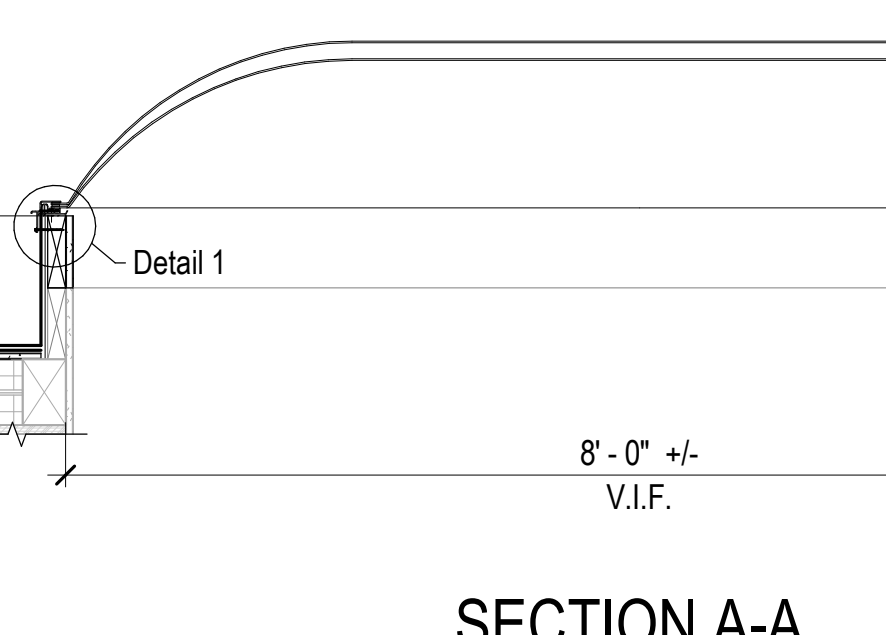
*KEYED TO DISTRICT STANDARD



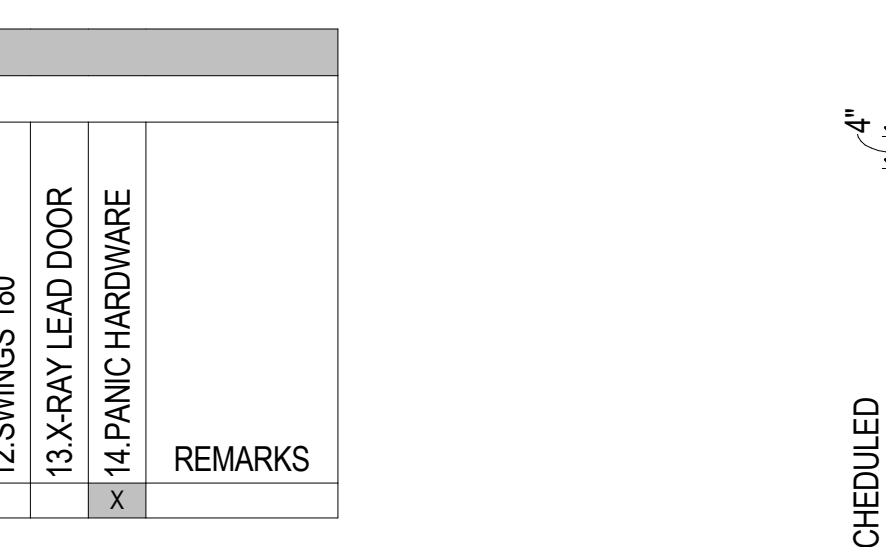
A3 HALLWAY CLEARSTORY
A7.01 1/8" = 1'-0"



B4 STOREFRONT HEAD @ METAL
A7.01 3" = 1'-0"



B5 STOREFRONT JAMB @ METAL
A7.01 3" = 1'-0"

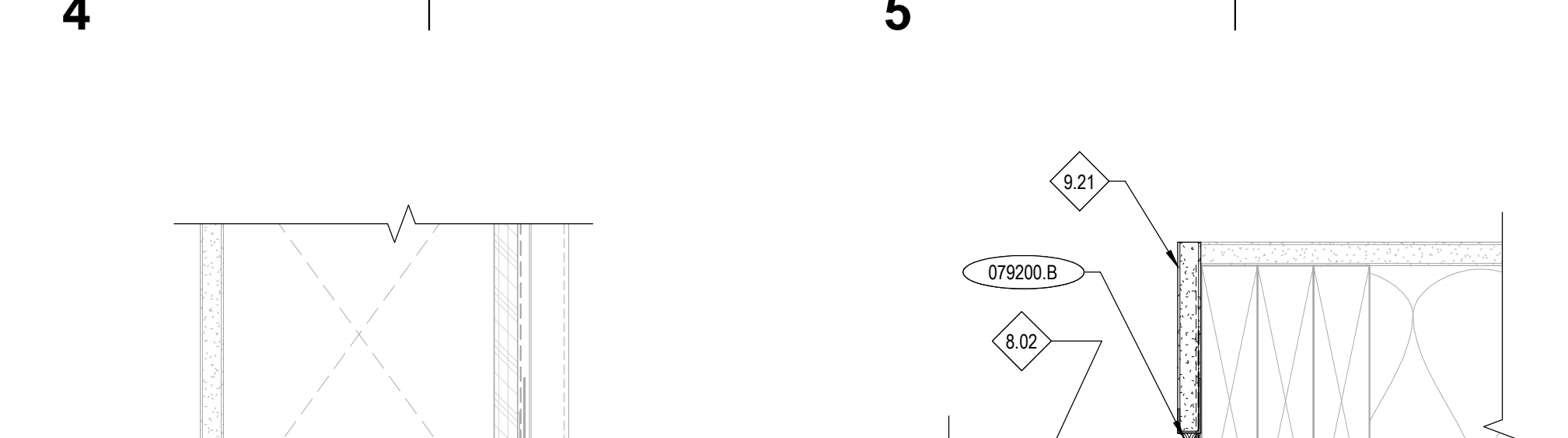


D6a DOOR JAMB @ CMU WALL
A7.01 3" = 1'-0"

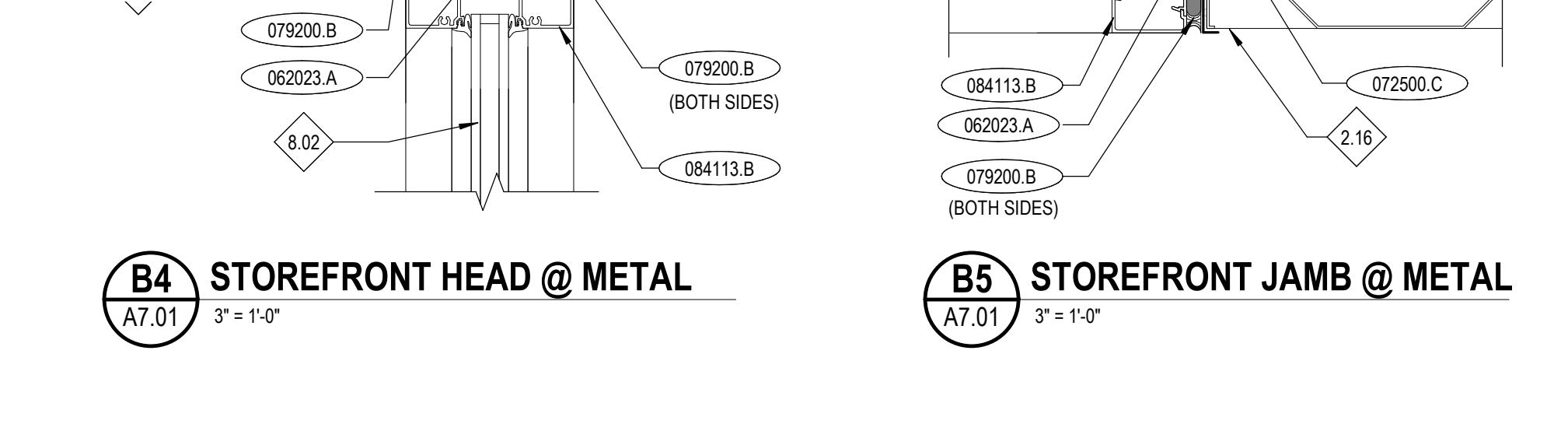


D6b DOOR HEADER @ CMU WALL
A7.01 3" = 1'-0"

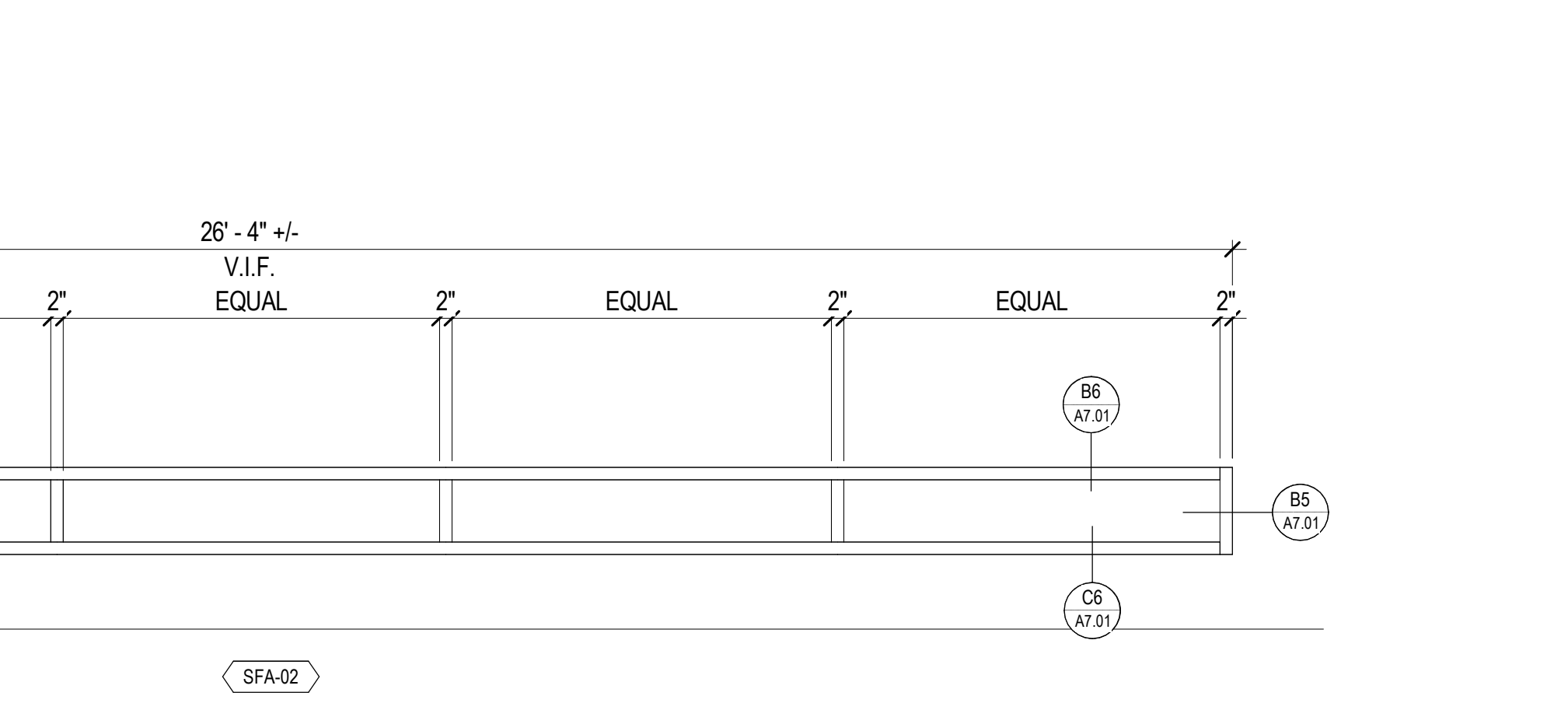
E6 DOOR SILL
A7.01 3" = 1'-0"



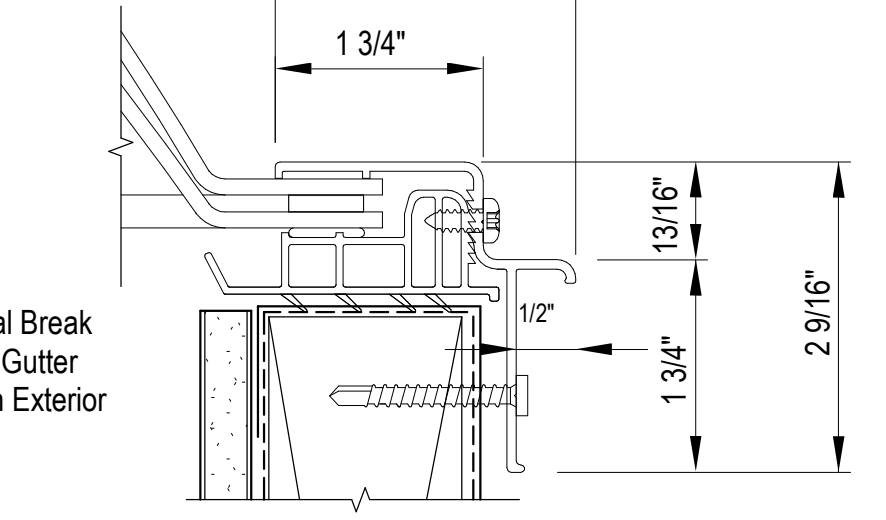
B4 STOREFRONT HEAD @ METAL
A7.01 3" = 1'-0"



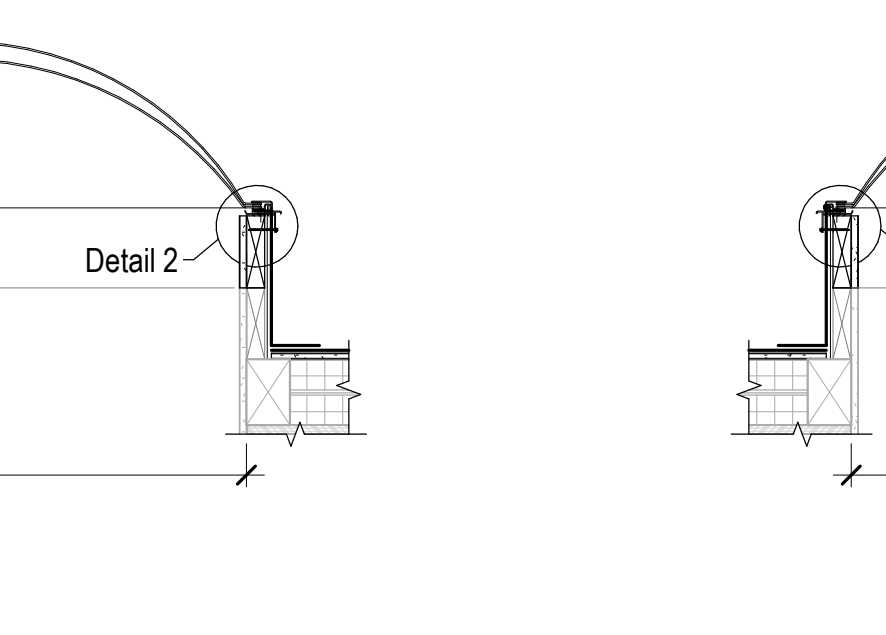
B5 STOREFRONT JAMB @ METAL
A7.01 3" = 1'-0"



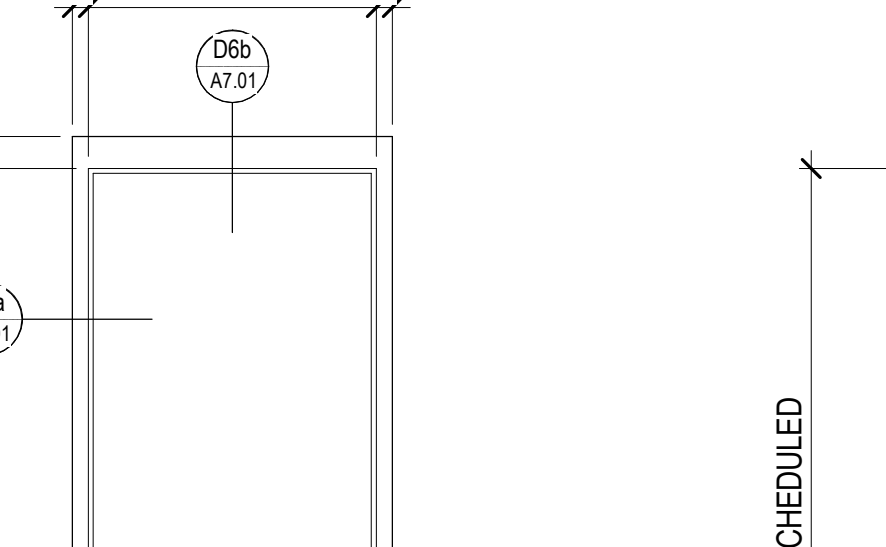
C6 STOREFRONT SILL @ TPO
A7.01 3" = 1'-0"



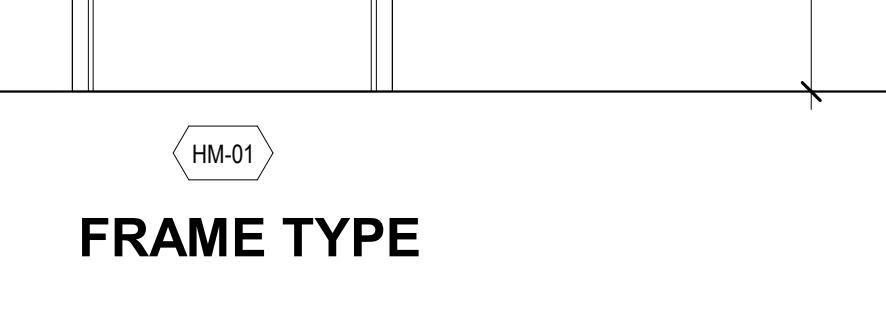
D6a DOOR JAMB @ CMU WALL
A7.01 3" = 1'-0"



D6b DOOR HEADER @ CMU WALL
A7.01 3" = 1'-0"

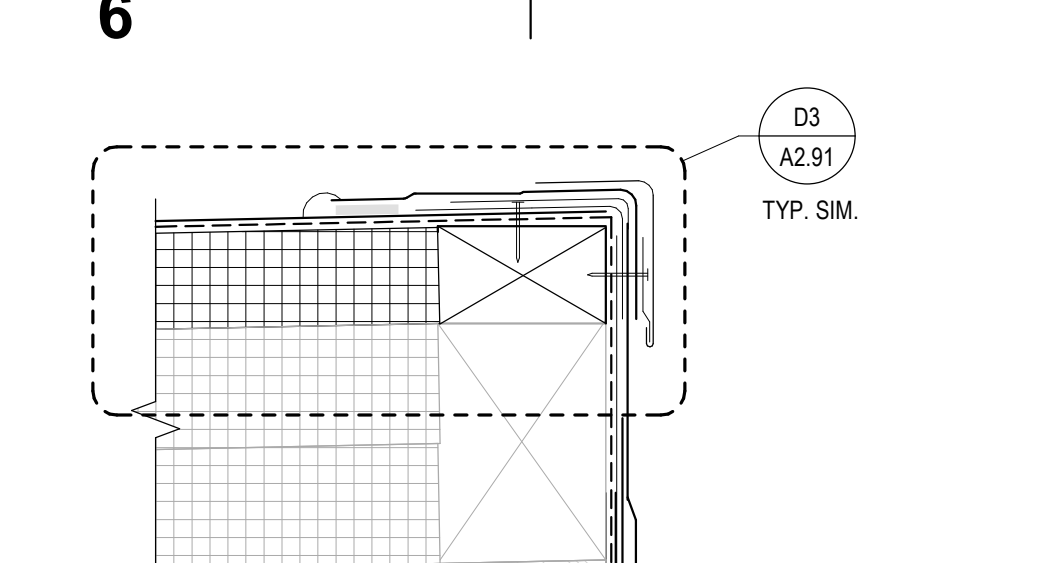


E6 DOOR SILL
A7.01 3" = 1'-0"

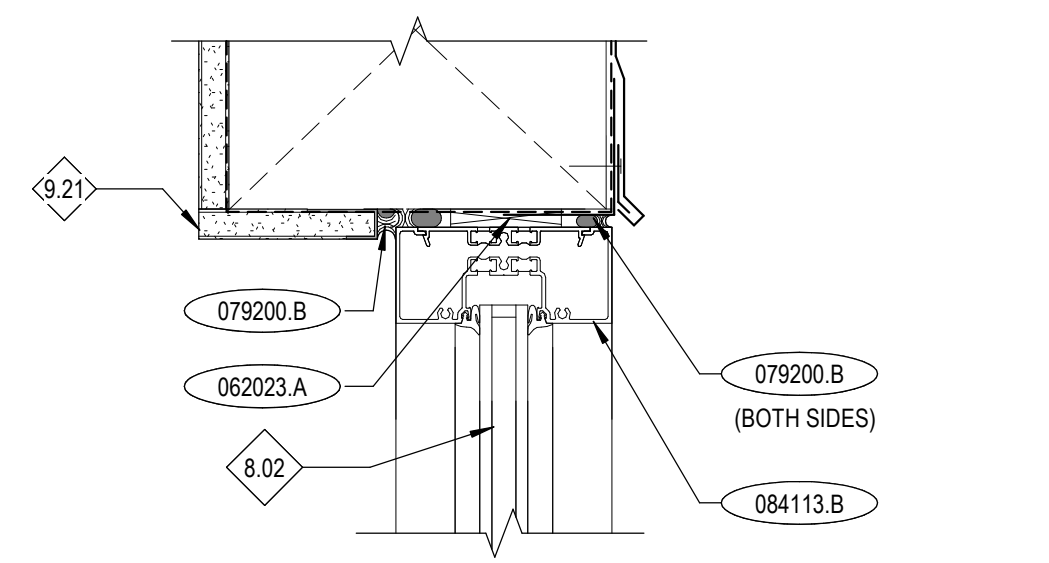


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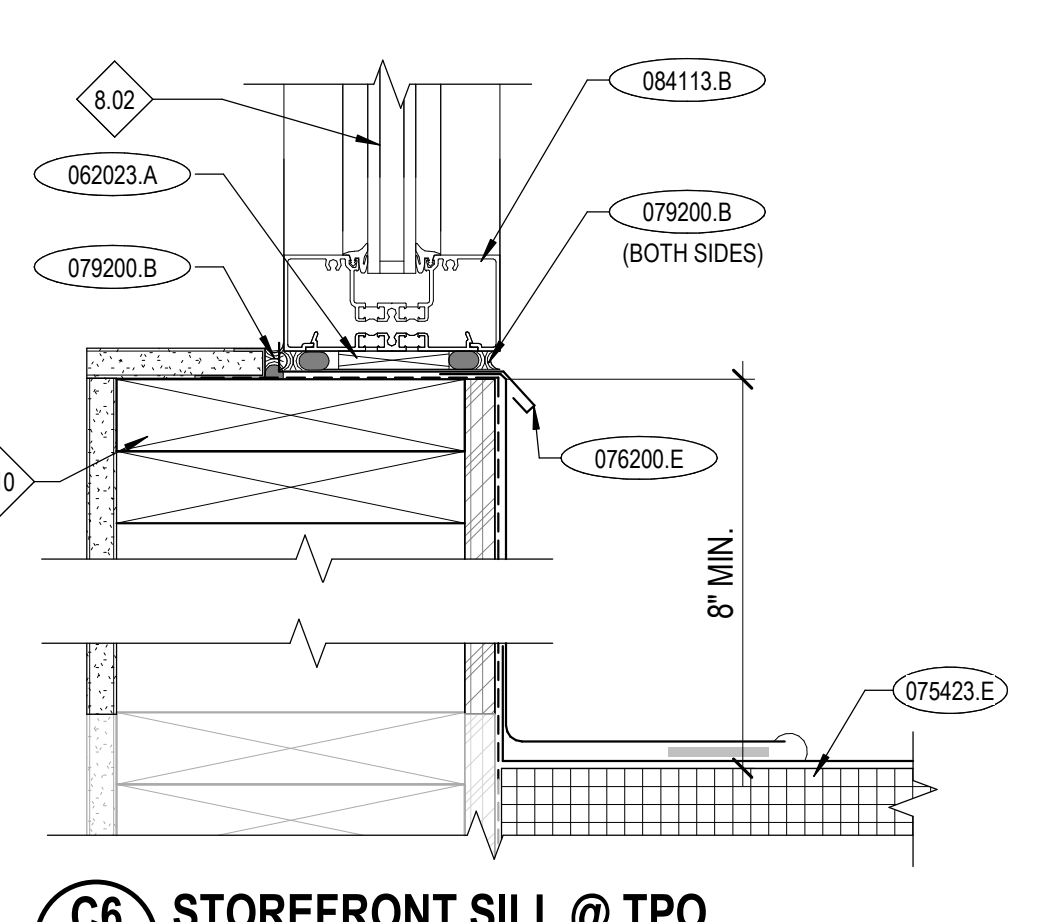
DOOR TYPE



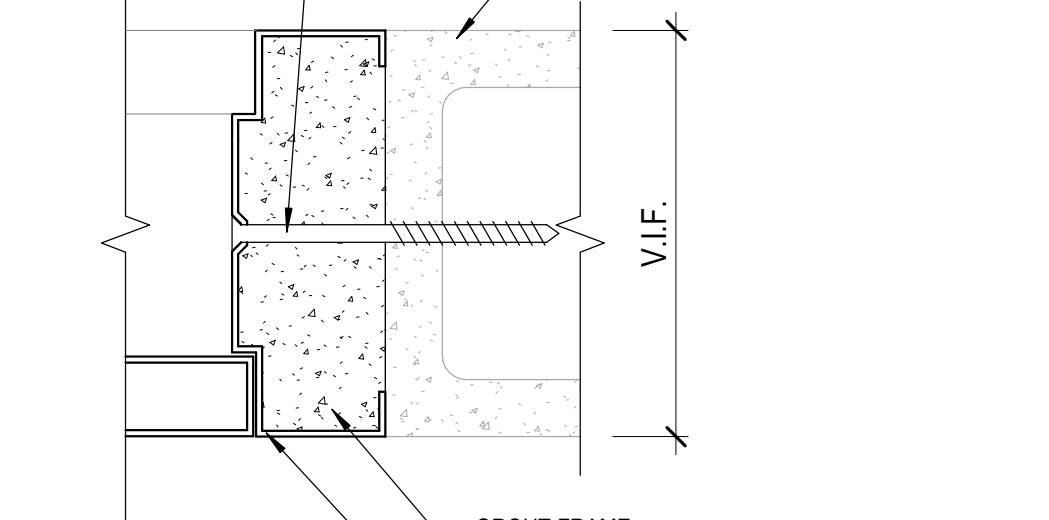
D6a DOOR JAMB @ CMU WALL
A7.01 3" = 1'-0"



D6b DOOR HEADER @ CMU WALL
A7.01 3" = 1'-0"

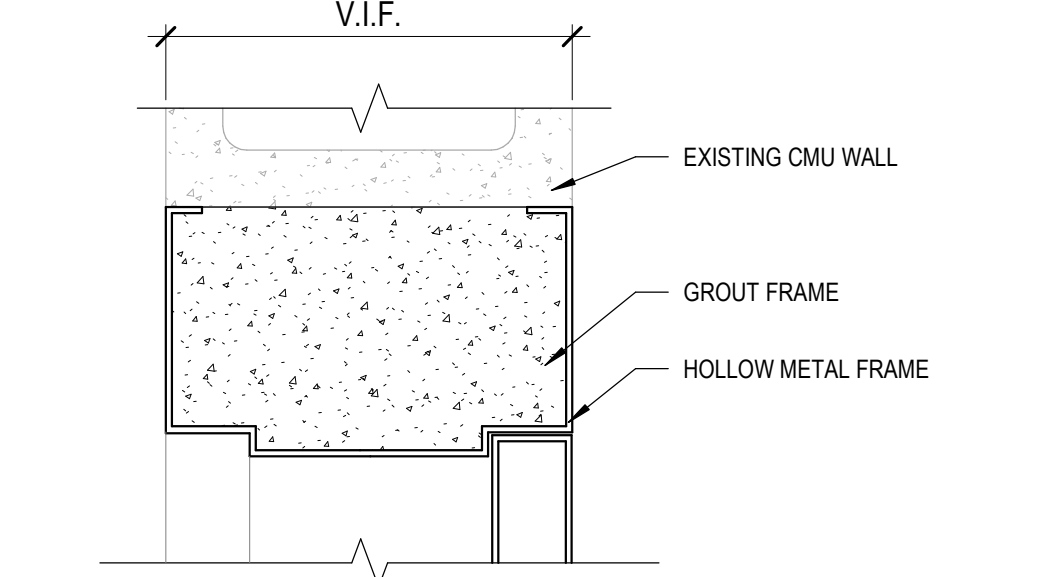


E6 DOOR SILL
A7.01 3" = 1'-0"

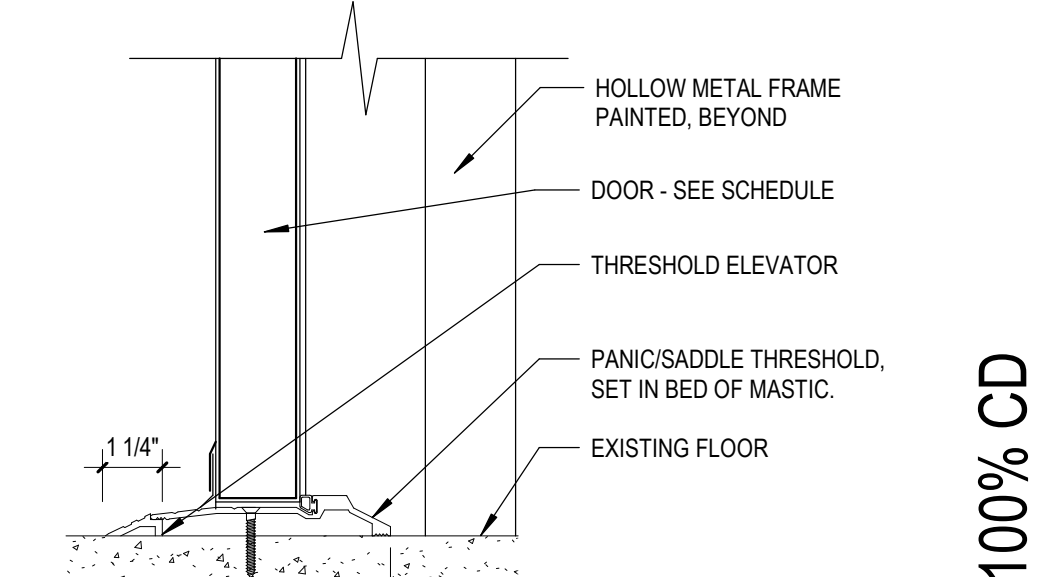


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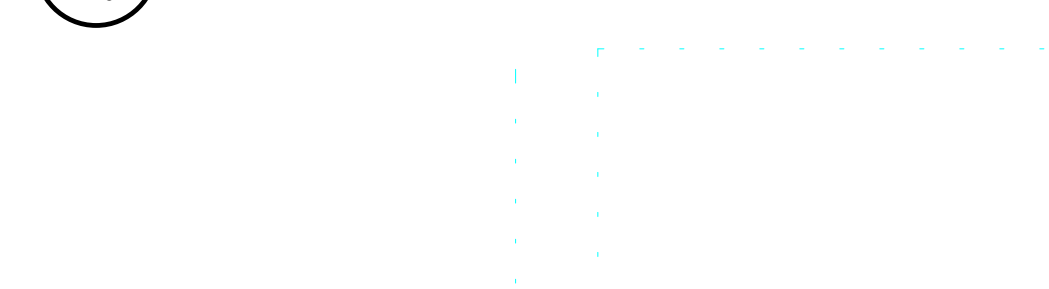
DOOR TYPE



FRAME TYPE



DOOR TYPE



FRAME TYPE

DOOR TYPE

GENERAL NOTES

- PROVIDE FULLY TEMPERED FIRE-RATED GLAZING (08800 C) IN METAL FRAMES AND DOORS WHERE 60M ASSEMBLY AT DOORS ARE REQUIRED (RE: DOOR SCHEDULE). FIRE-RATED GLAZING ASSEMBLY SHALL BE 60M.
- PROVIDE SAFETY GLAZING WHERE REQUIRED BY I.B.C. SECTION 2406 AND SPECIFICATION SECTION 08800 - GLAZING.
- PROVIDE FLOAT GLASS (08900 A) AT CONDITIONS OTHER THAN THOSE DESCRIBED IN THE GENERAL NOTES.
- GLASS AT 60M OPENINGS SHALL BE FULLY TEMPERED FIRE-RATED GLAZING AND CARRY 60M LABEL. WIRE GLASS DOES NOT CARRY THIS LABEL.
- FIELD VERIFY ALL ROUGH OPENING DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FABRICATION/INSTALLATION.
- FOR DOOR AND WINDOW FRAME THICKNESS, RE: FLOOR PLANS AND ASSEMBLY DETAIL.
- REFERENCE PLANS AND ELEVATIONS FOR WINDOW LOCATIONS AND TYPES.
- FIRE AND SMOKE ASSEMBLY DOORS SHALL BE LABELED BY AN APPROVED AGENCY AND IN COMPLIANCE WITH IBC SECTION 716.5.7.1.

KEYNOTES

062023 A WOOD TRIM. PAINT TO MATCH EXISTING.

072500 C SELF ADHERED FLEXIBLE FLASHING.

076203 E ROOF INSULATION FLASHING AND DRIP EDGE.

076200 J DOWNSPOUT.

076200 M CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.

079200 B JOINT SEALANT.

084113 B ALUMINUM STOREFRONT FRAMING SYSTEM.

REFERENCE NOTES

- MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- BUILD UP CURB AT EXISTING WINDOW OPENING TO THE MINIMUM CURB HEIGHT AS SHOWN IN WINDOW ELEVATIONS TO ACCOMMODATE NEW STOREFRONT HEIGHT AND SUFFICIENT ROOFING TRANSITION.
- PRESERVE AND PROTECT EXISTING WINDOW SYSTEM.
- REMOVE SECTION OF GLAZING WITHIN THE EXISTING WINDOW SYSTEM FOR NEW WORK. PROTECT IN PLACE WOOD FRAMES AND ADJACENT GLAZING SECTIONS WITHIN THE WINDOW SYSTEM. COORDINATE LOCATION WITH MECH PLANS.
- EXISTING METAL WALL PANEL TO BE PRESERVED AND PROTECTED.
- INFILL EXISTING OPENING. SEE DETAIL C6/A7.01.
- EXISTING CLEARSTORY WINDOW OPENING.
- NEW ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS. REFER TO WINDOW TYPES FOR GLAZING.
- PATCH AND TEXTURE WALL OPENINGS FLUSH TO ADJACENT EXISTING GYP BOARD SURFACES. PAINT WALL CORNER TO CORNER TO MATCH EXISTING.

ABBREVIATIONS

ALUM - ALUMINUM

FF - FACTORY FINISH AS SPECIFIED

HM - HOLLOW METAL

HPC - HIGH PERFORMANCE COATING

M - MINUTES

PH - PAINT COLOR "NUMBER" (RE: DIVISION 9 SECTION "INTERIOR PAINTING")

WD - WOOD

S - SMOKE

AN - ANODIZED

LEGEND

HATCH IN FRAME UNITS INDICATES AREAS OF FULLY-TEMPERED FLOAT GLASS. RE: DIVISION 08800 IN THE SPECIFICATIONS.

NO HATCH AREA IN FRAME UNITS INDICATES AREAS OF FLOAT GLASS. RE: DIVISION 08800 IN THE SPECIFICATIONS.

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Harrison Elementary School
600 Harrison St.
Twin Falls, ID 83301

Sheet:
WINDOW FRAME & DETAILS

Revisions: Δ

PROFESSIONAL ARCHITECT
01/15/2025
18-9867
STATE OF IDAHO
DERRAN F. COLEMAN

Project No: 24075
Drawn By: NB
Checked By: PR
Date: 01/15/2025

Sheet No: **A7.01**

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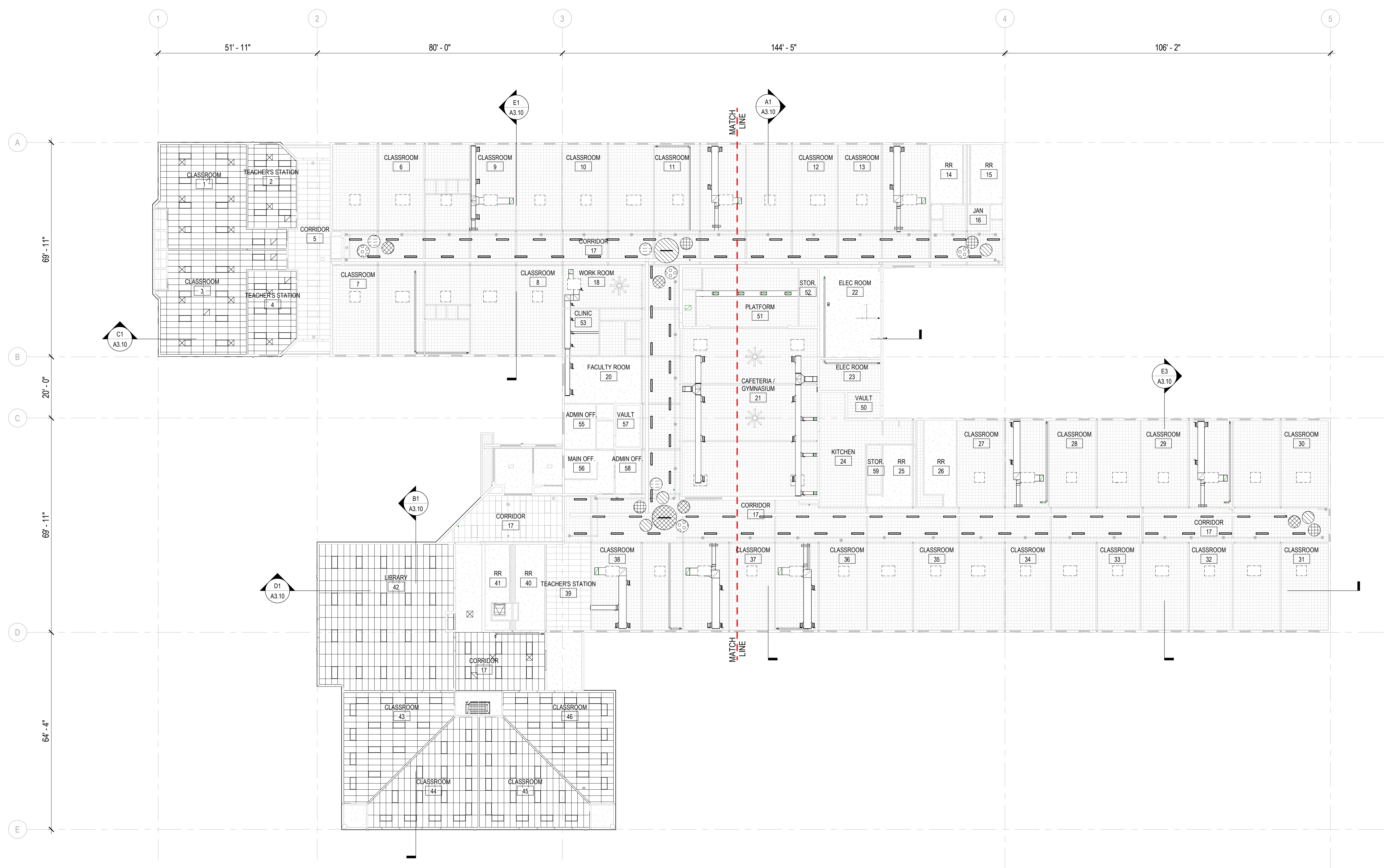
A

B

C

D

E



E1 COMPOSITE CEILING PLAN
A9.01 1/16" = 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.
- INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
- COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
- PAINT ALL EXPOSED-TO-VIEW STRUCTURAL DECK, BEAMS AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
- PAINT ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT, CABLE TRAYS 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".
- RE: DIVISION 9 SECTION "INTERIOR PAINTING" FOR ACOUSTIC CEILING TILE PAINT SYSTEM.
- NEW WORK SHALL ALLOW FOR CONTINUED FUNCTIONALITY OF THE EXISTING EXIT SIGNS AND SECURITY CAMERAS; ADJUST EXISTING EXIT SIGNS AND SECURITY CAMERAS WHERE NECESSARY AND OTHER ASSOCIATED ITEMS. SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR OTHER ITEMS REQUIRING ADJUSTMENTS.
- PAINT ALL EXISTING AND NEW ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ITEMS ABOVE NEW CEILING CLOUDS.

CEILING FINISH LEGEND

- C-2. PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-4. PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-5. PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-7. PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-8. PANEL CEILING COLOR - SEE SPEC SECTION 095113

LEGEND

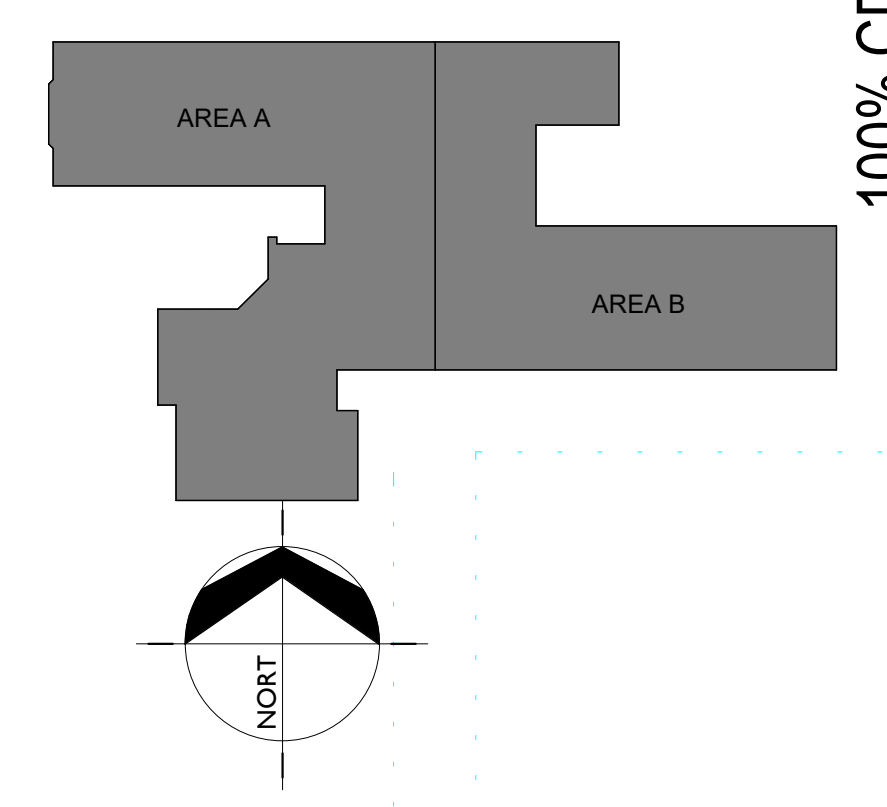
- 2 x 4 ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS, APC-1, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
- AREA OF CEILING INFILL
- LIGHTING FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
- MECHANICAL FIXTURES, COORDINATE WITH MECHANICAL DRAWINGS.
- ACCESS DOOR, RE: SPECIFICATION SECTION 07720 B
- 8" DIAMETER CIRCLE CLOUD
- 4" DIAMETER CIRCLE CLOUD

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Sheet:
COMPOSITE CEILING PLAN

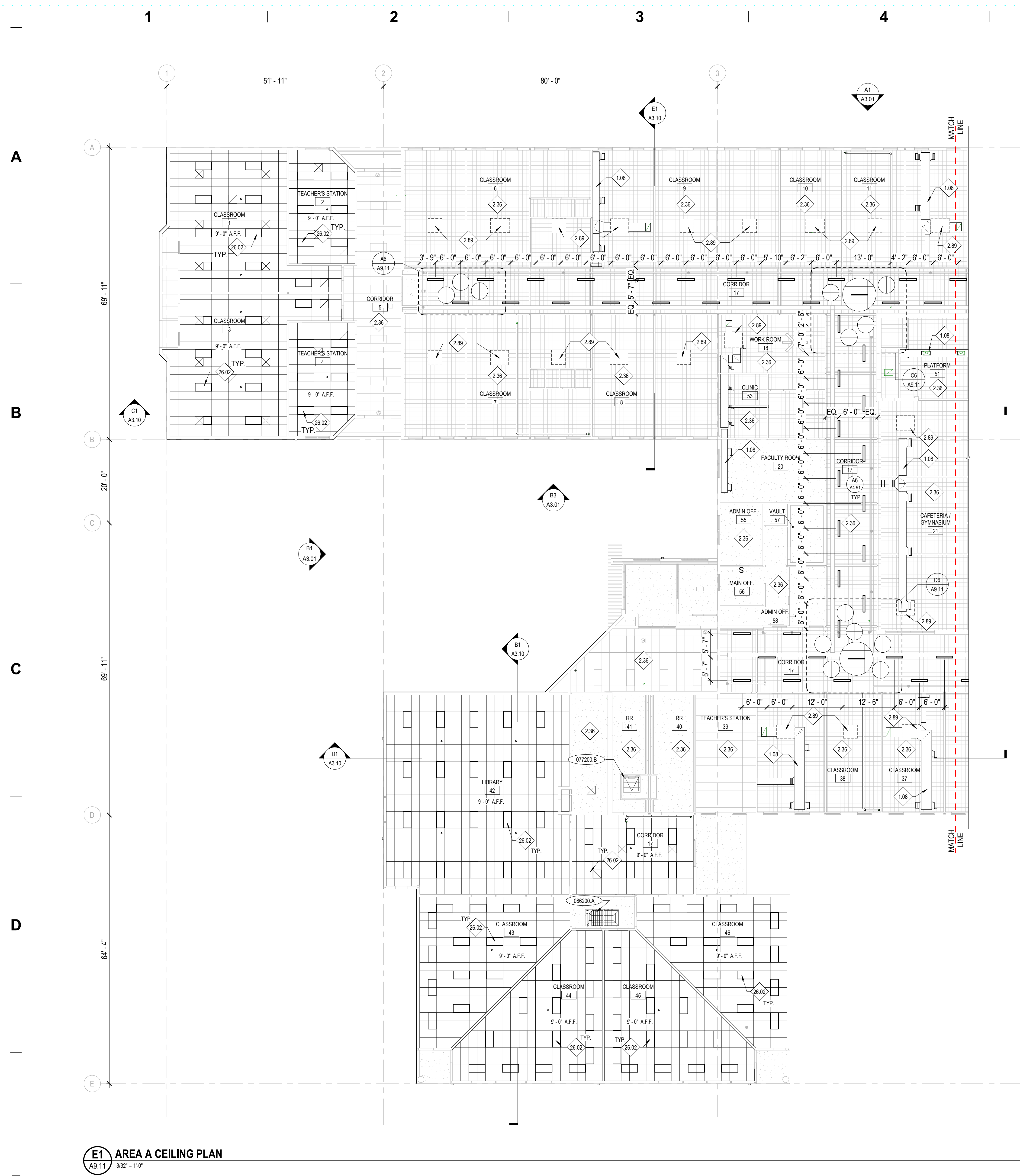
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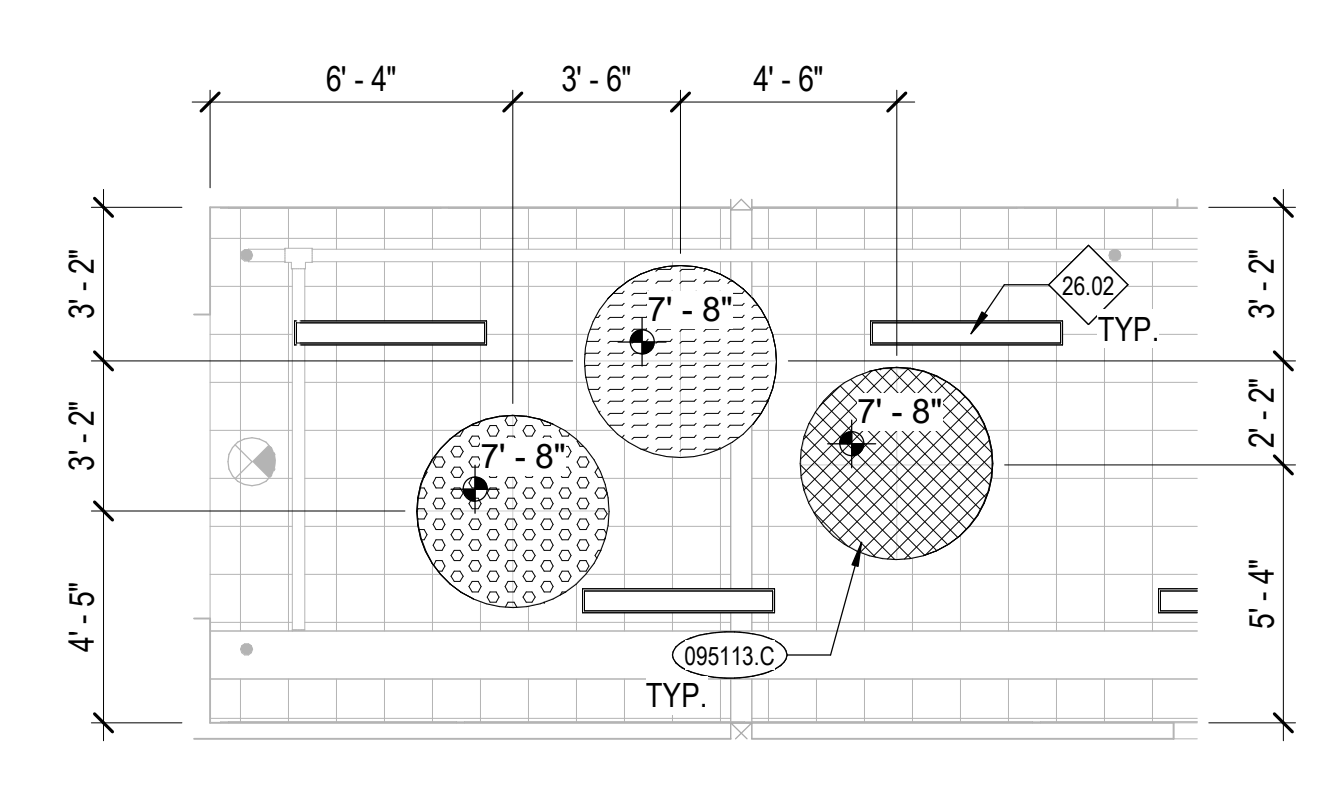
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 Drawn By: NB
 Checked By: PR
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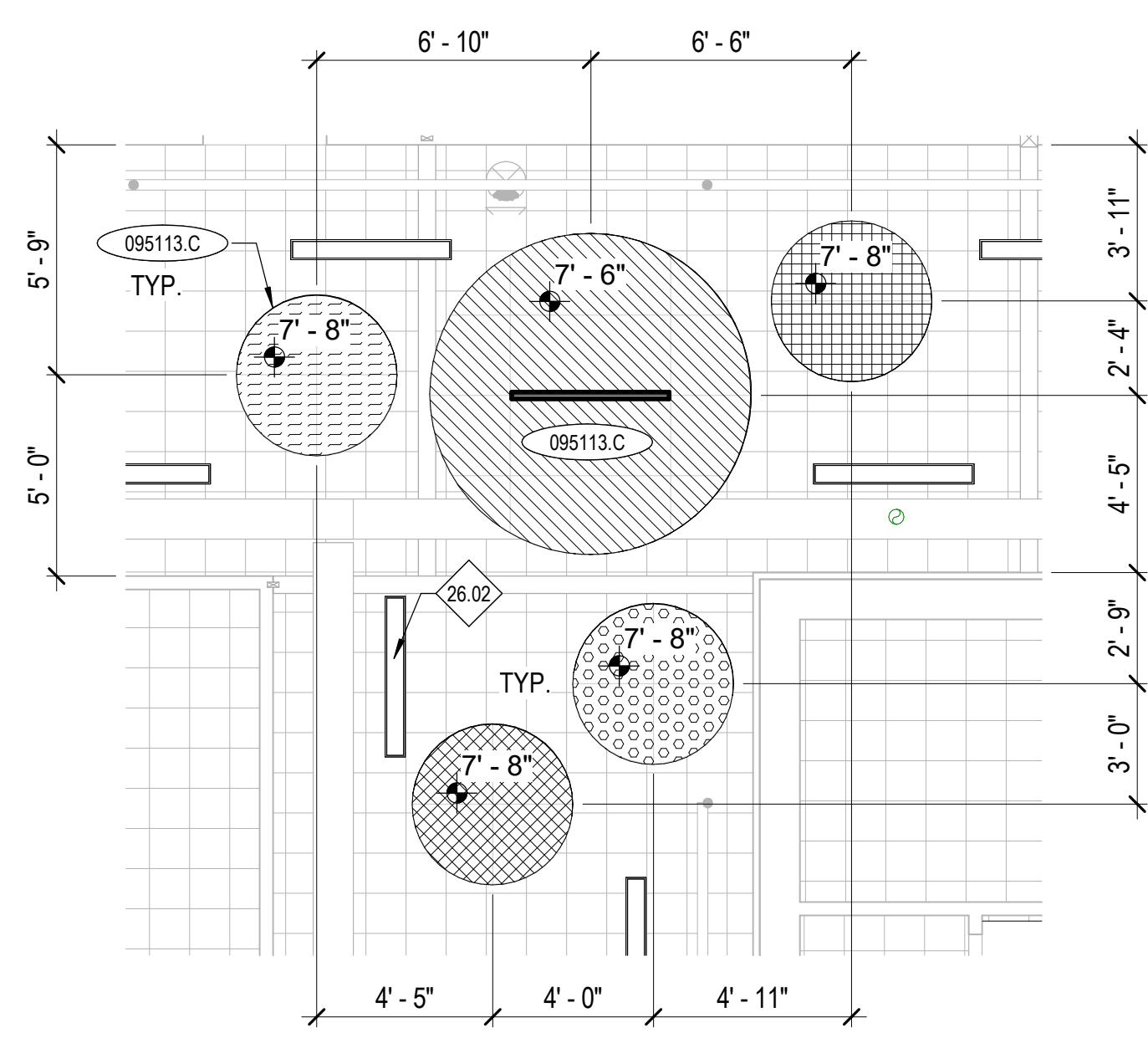
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A9.01



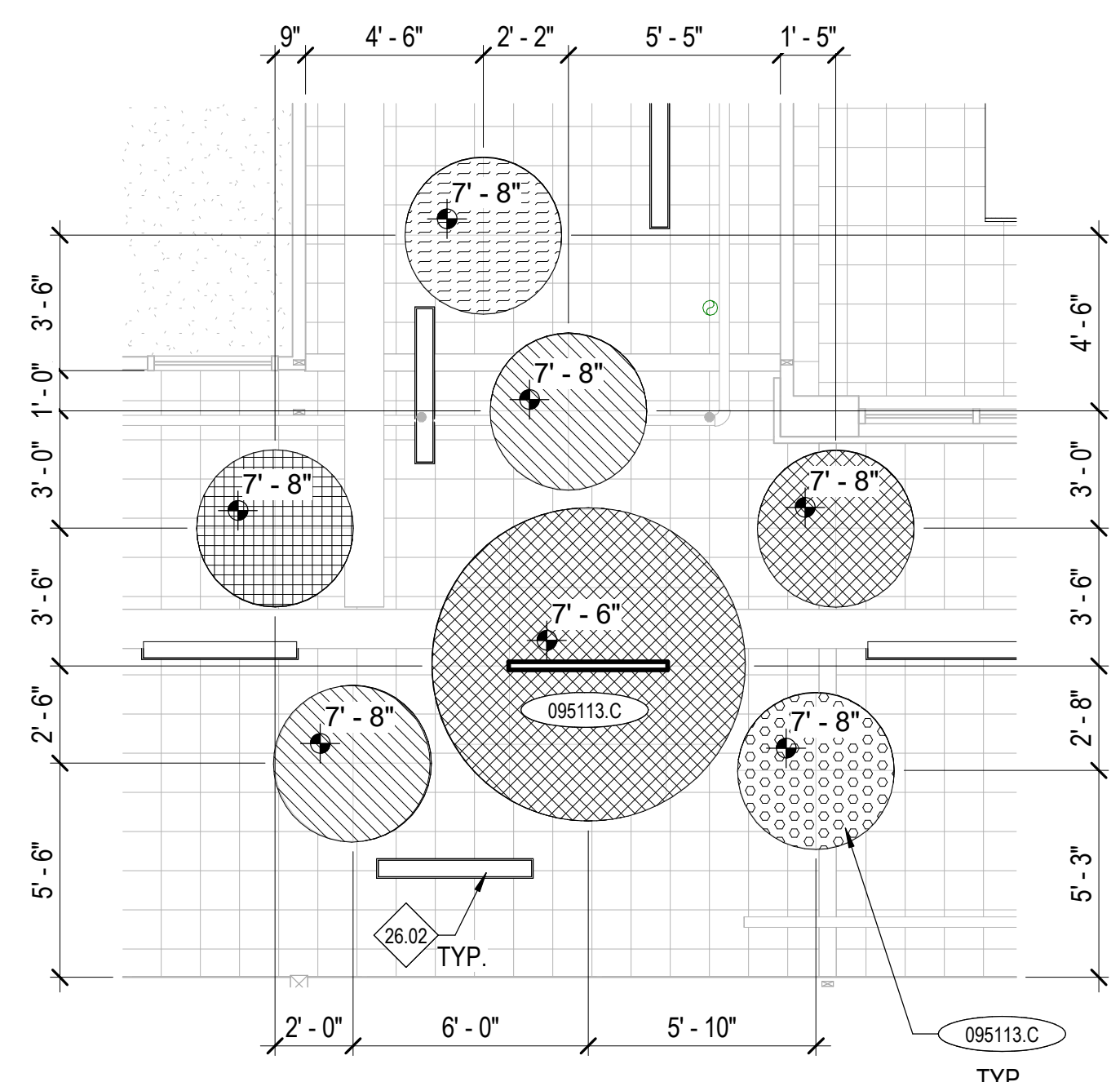
E1 AREA A CEILING PLAN
A9.11 3/32" = 1'-0"



A6 SMALL CEILING CLOUD - NORTH WEST
A9.11 1/4" = 1'-0"



C6 LARGE CEILING CLOUD - NORTH
A9.11 1/4" = 1'-0"



D6 LARGE CEILING CLOUD - SOUTH
A9.11 1/4" = 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.
- INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
- COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
- PAINT ALL EXPOSED-TO-VIEW STRUCTURAL DECK, BEAMS AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
- PAINT ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT, CABLE TRAYS 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".
- RE: DIVISION 9 SECTION "INTERIOR PAINTING" FOR ACOUSTIC CEILING TILE PAINT SYSTEM.
- NEW WORK SHALL ALLOW FOR CONTINUED FUNCTIONALITY OF THE EXISTING EXIT SIGNS AND SECURITY CAMERAS. ADJUST EXISTING EXIT SIGNS AND SECURITY CAMERAS WHERE NECESSARY AND OTHER ASSOCIATED ITEMS. SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR OTHER ITEMS REQUIRING ADJUSTMENTS.
- PAINT ALL EXISTING AND NEW ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ITEMS ABOVE NEW CEILING CLOUDS.

KEYNOTES

- 072200.B ROOF HATCH
- 086200.A FIBERGLASS SANDWICH-PANEL SKYLIGHT ASSEMBLY
- 095113.C APC-3

REFERENCE NOTES

- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- 2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.
- 2.89 TYP. EXTENT OF CEILING INFILL. REFER TO TYPICAL CLASSROOM RCP FOR MORE DETAILS.
- 26.02 NEW LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

CEILING FINISH LEGEND

- C-2, PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-4, PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-5, PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-7, PANEL CEILING COLOR - SEE SPEC SECTION 095113
- C-8, PANEL CEILING COLOR - SEE SPEC SECTION 095113

LEGEND

- 2' x 4' ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS, APC-1, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
- AREA OF CEILING INFILL
- LIGHTING FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
- MECHANICAL FIXTURES, COORDINATE WITH MECHANICAL DRAWINGS.
- X' - X" CEILING HEIGHT ABOVE FINISH FLOOR
- ACCESS DOOR. RE: SPECIFICATION SECTION 072200.B
- 8'-0" DIAMETER CIRCLE CLOUD, APC-3, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
- 4'-0" DIAMETER CIRCLE CLOUD, APC-3, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS

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Project:
HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT
Harrison Elementary School
600 Harrison St.
Twin Falls, ID 83301

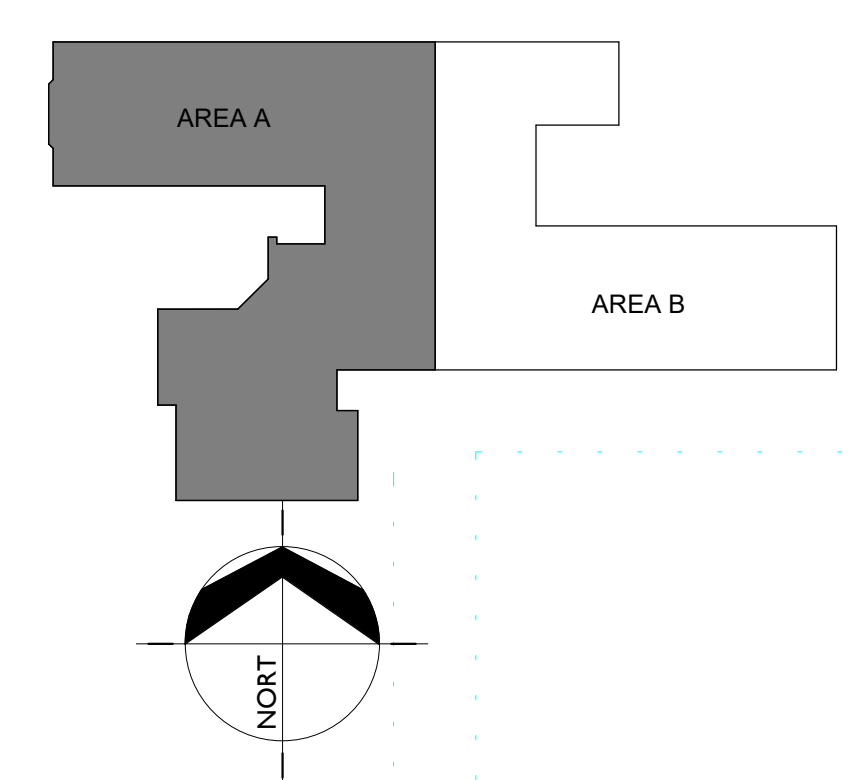
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AREA 'A' CEILING PLAN

Revisions:

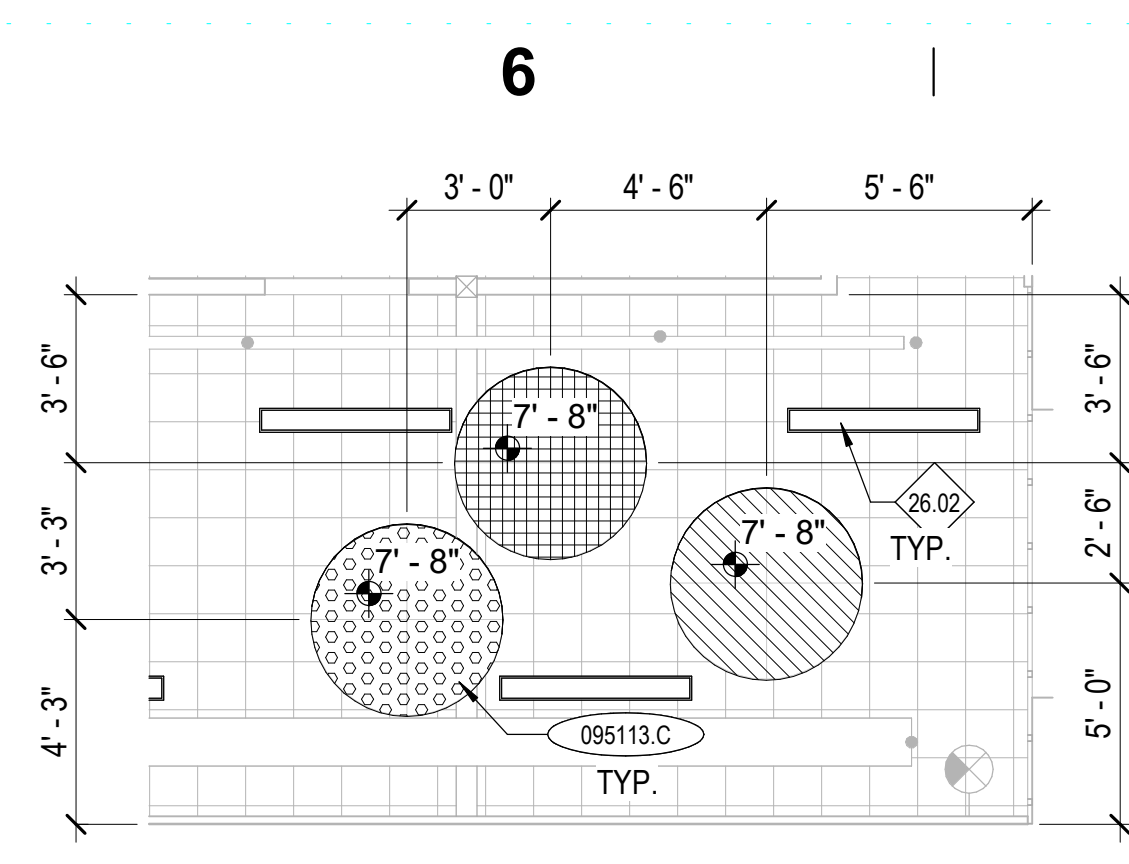
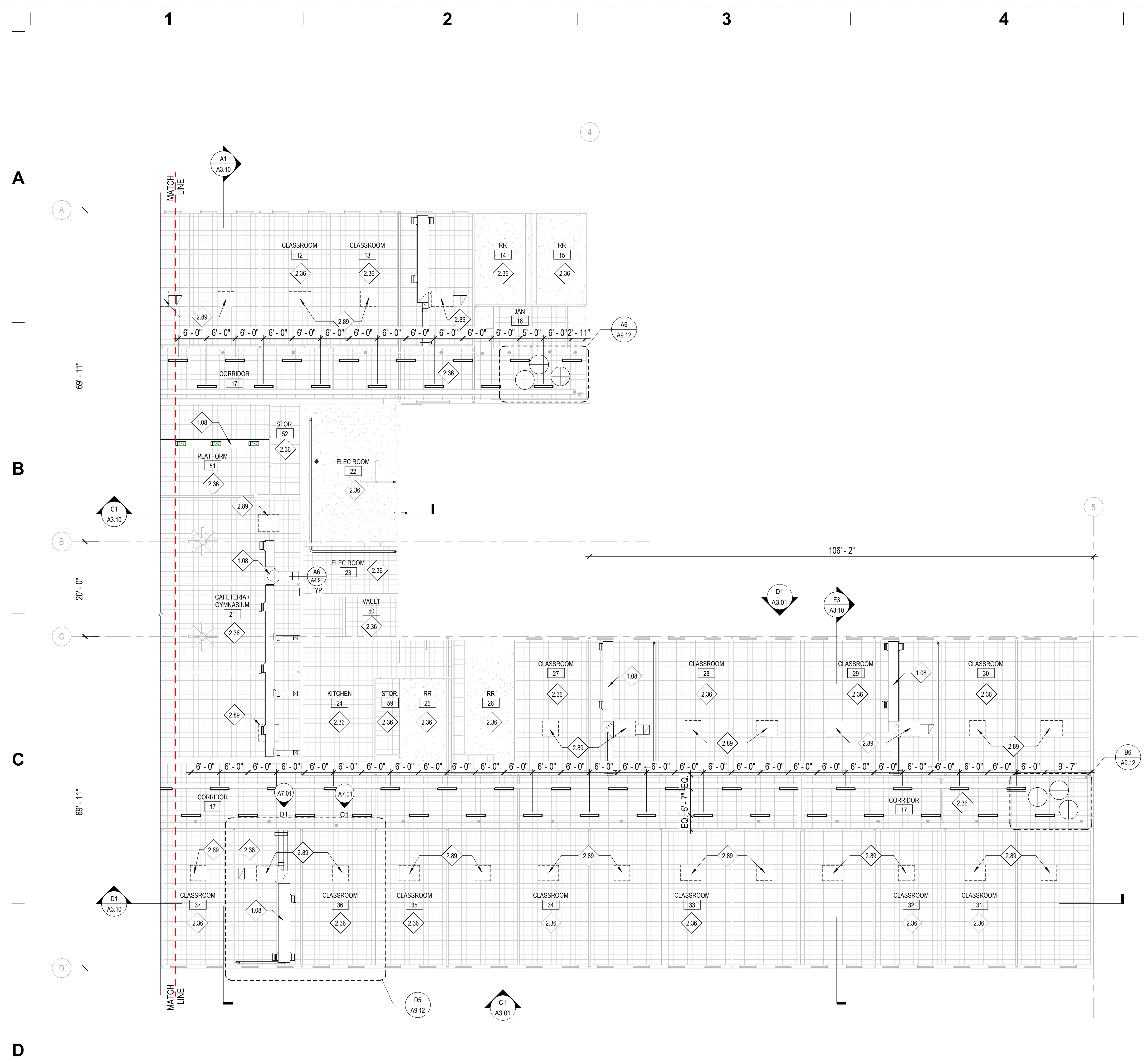
PROFESSIONAL ARCHITECT
LICENSED
01/15/2025
TR-9867
STATE OF IDAHO
DORIAN F. COLEMAN

Project No: 24076
Drawn By: NB
Checked By: PR
Date: 01/15/2025

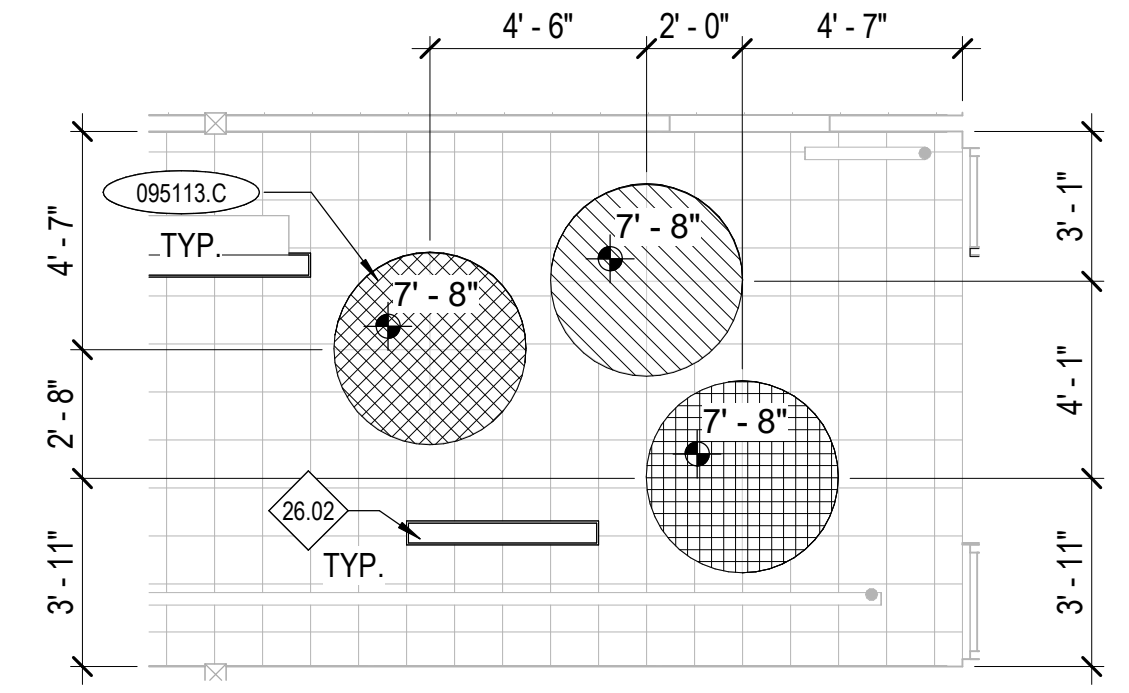
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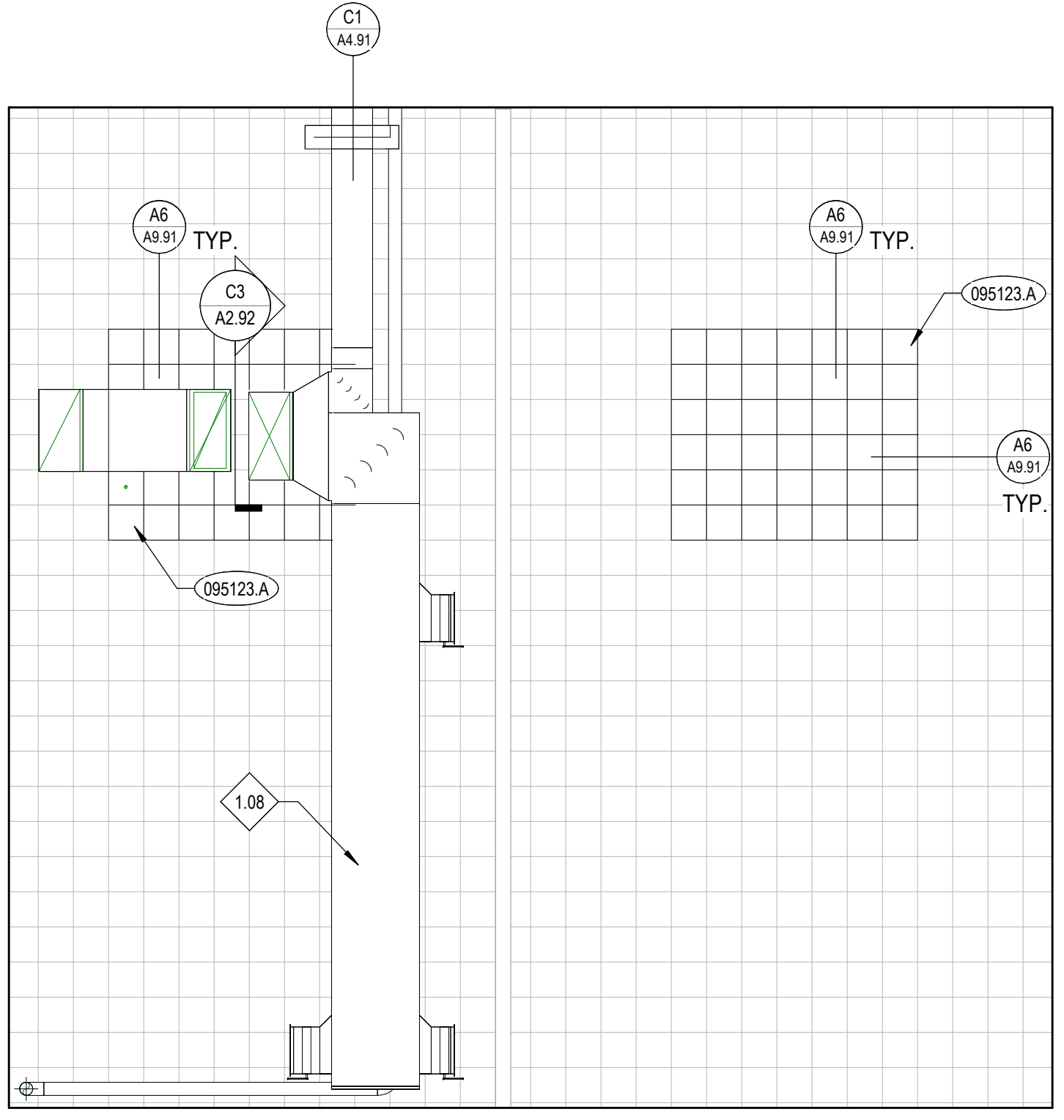
100% CD



A6 SMALL CEILING CLOUD - NORTH EAST
A9.12 1/4" = 1'-0"



B6 SMALL CEILING CLOUD - SOUTH EAST
A9.12 1/4" = 1'-0"



D5 TYPICAL CLASSROOM RCP
A9.12 1/4" = 1'-0"

D1 AREA B CEILING PLAN
A9.12 3/32" = 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.
 - INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
 - COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
 - PAINT ALL EXPOSED-TO-VIEW STRUCTURAL DECK, BEAMS AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
 - PAINT ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT, CABLE TRAYS 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".
 - RE: DIVISION 9 SECTION "INTERIOR PAINTING" FOR ACOUSTIC CEILING TILE PAINT SYSTEM.
 - NEW WORK SHALL ALLOW FOR CONTINUED FUNCTIONALITY OF THE EXISTING EXIT SIGNS AND SECURITY CAMERAS. ADJUST EXISTING EXIT SIGNS AND SECURITY CAMERAS WHERE NECESSARY AND OTHER ASSOCIATED ITEMS. SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR OTHER ITEMS REQUIRING ADJUSTMENTS.
 - PAINT ALL EXISTING AND NEW ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ITEMS ABOVE NEW CEILING CLOUDS.
- KEYNOTES**
- 095113.C APC-3
095123.A ACOUSTICAL PANEL TO BE APPLIED TO EXISTING STRUCTURE USING ADHESIVE.
- REFERENCE NOTES**
- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
2.36 EXISTING CEILING TO REMAIN. PROTECT IN PLACE.
2.89 TYP. EXTENT OF CEILING INFILL. REFER TO TYPICAL CLASSROOM RCP FOR MORE DETAILS.
26.02 NEW LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- CEILING FINISH LEGEND**
- C-2. PANEL CEILING COLOR - SEE SPEC SECTION 095113
 - C-4. PANEL CEILING COLOR - SEE SPEC SECTION 095113
 - C-5. PANEL CEILING COLOR - SEE SPEC SECTION 095113
 - C-7. PANEL CEILING COLOR - SEE SPEC SECTION 095113
 - C-8. PANEL CEILING COLOR - SEE SPEC SECTION 095113
- LEGEND**
- 2' x 4' ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS, APC-1, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
 - AREA OF CEILING INFILL
 - LIGHTING FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
 - MECHANICAL FIXTURES, COORDINATE WITH MECHANICAL DRAWINGS.
 - X' - X" CEILING HEIGHT ABOVE FINISH FLOOR
 - ACCESS DOOR. RE: SPECIFICATION SECTION 07200.B
 - 8'-0" DIAMETER CIRCLE CLOUD, APC-3, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
 - 4'-0" DIAMETER CIRCLE CLOUD, APC-3, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS

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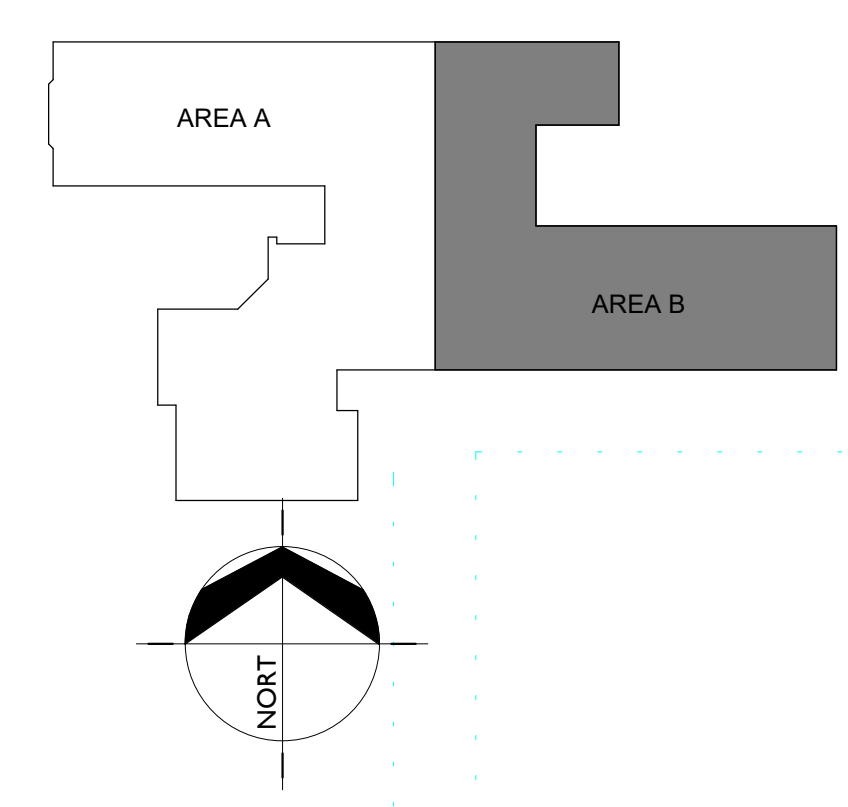
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AREA 'B' CEILING PLAN

Revisions: Δ

PROFESSIONAL ARCHITECT
LICENSED
01/15/2025
TR-9867
STATE OF IDAHO
CHRISTIAN F. COLEMAN

Project No: 24076
Drawn By: NB
Checked By: PR
Date: 01/15/2025

Sheet No:
A9.12



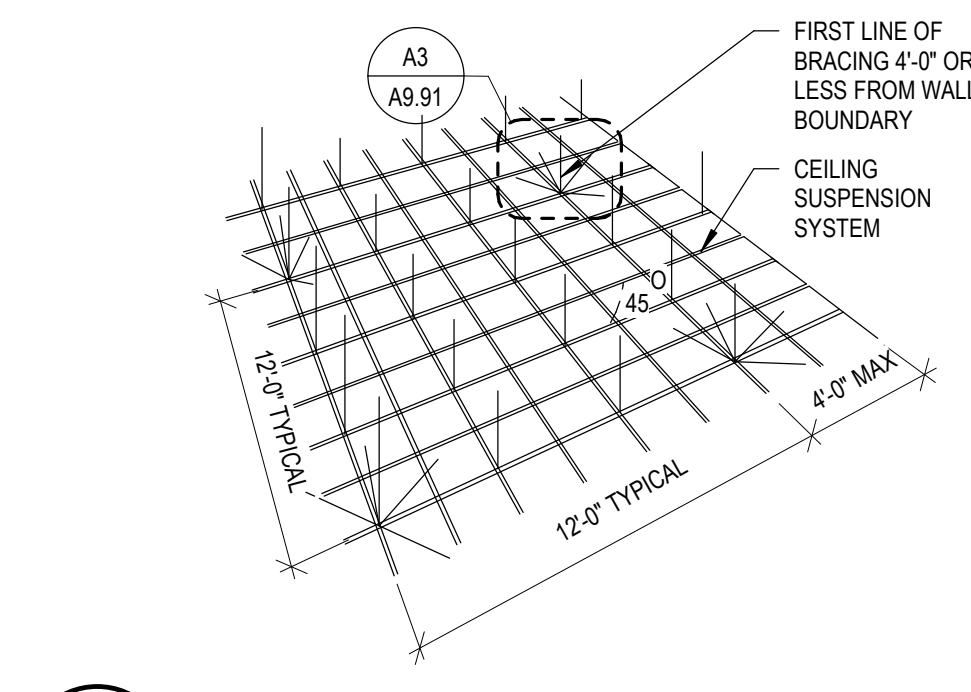
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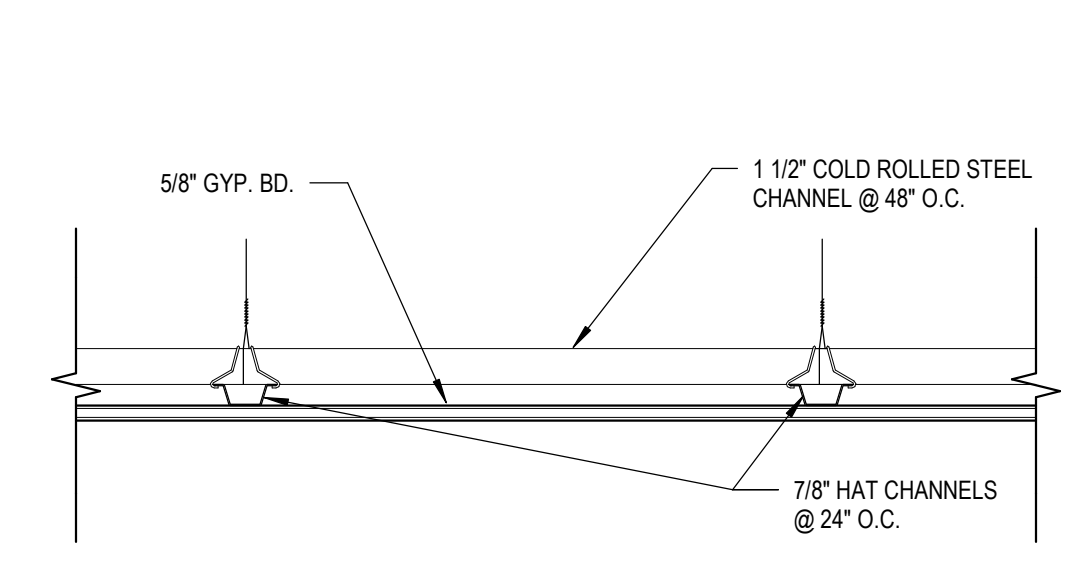
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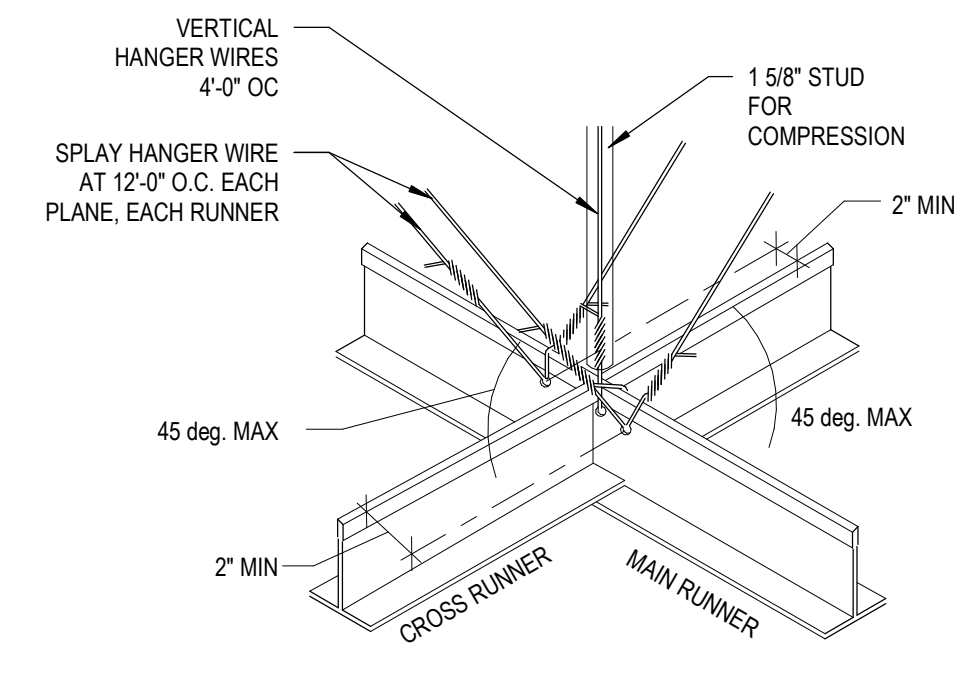
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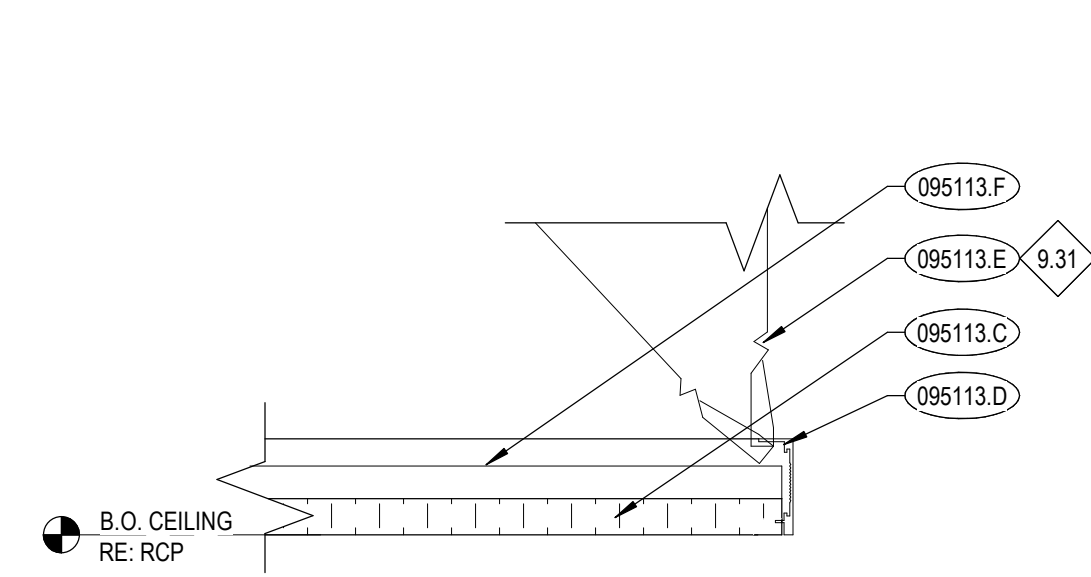
A1 TYPICAL SEISMIC BRACING DETAIL-02
A9.91 NOT TO SCALE



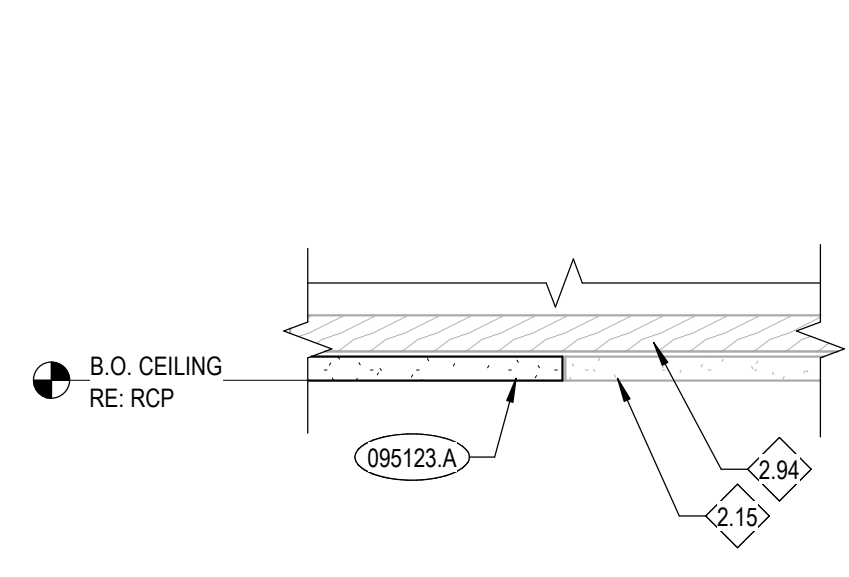
A2 SUSPENDED CEILING DETAIL
A9.91 3" = 1'-0"



A3 TYPICAL SEISMIC BRACING DETAIL-01
A9.91 12" = 1'-0"



A4 CEILING CLOUD DETAIL
A9.91 3" = 1'-0"



A6 CEILING TRANSITION DETAIL
A9.91 3" = 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.
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KEYNOTES

- 095113.C APC-3
- 095113.D 2" CURBED TRIM, BASIS OF DESIGN: AXIOM VECTOR CURVED PERIMETER TRIM BY ARMSTRONG
- 095113.E HANGER WIRE
- 095113.F T-BAR GRID SYSTEM
- 095123.A ACOUSTICAL PANEL TO BE APPLIED TO EXISTING STRUCTURE USING ADHESIVE.

REFERENCE NOTES

- 2.15 EXISTING ACOUSTIC CEILING TILE. PRESERVE AND PROTECT. PATCH AND REPAIR AS REQUIRED.
- 2.34 EXISTING 3/4" STRIPPING
- 9.31 CROSS BRACING PER MANUFACTURERS INSTRUCTIONS

HUMMEL ARCHITECTS

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Harrison Elementary School
600 Harrison St.
Twin Falls, ID 83301

Sheet:
CEILING DETAILS

100% CD



Revisions: Δ

Project No: 24076
Drawn By: NB
Checked By: PR
Date: 01/15/2025

Sheet No: **A9.91**

1 STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE LOG			
		100% CD	50% CD SET	75% CD SET	BID SET
S0.00	ABBREVIATIONS, SYMBOLS AND SHEET INDEX	X	X	X	X
S1.00	GENERAL STRUCTURAL NOTES	X	X	X	X
S1.01	GENERAL STRUCTURAL NOTES	X	X	X	X
S1.02	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING	X	X	X	X
S1.03	STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING	X	X	X	X
S2.01	ROOF FRAMING PLAN	X	X	X	X
S3.00	RETROFIT DETAILS	X	X	X	X
S3.01	RETROFIT DETAILS	X	X	X	X
S3.02	RETROFIT DETAILS	X	X	X	X

ISSUE LOG KEY:
 X ISSUED AS PART OF A SET
 - NOT AS PART OF ISSUED SET
 . FOR INFORMATION ONLY

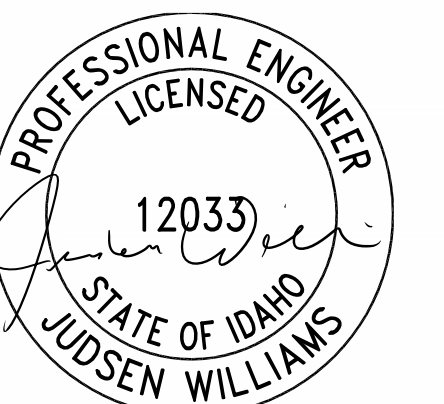
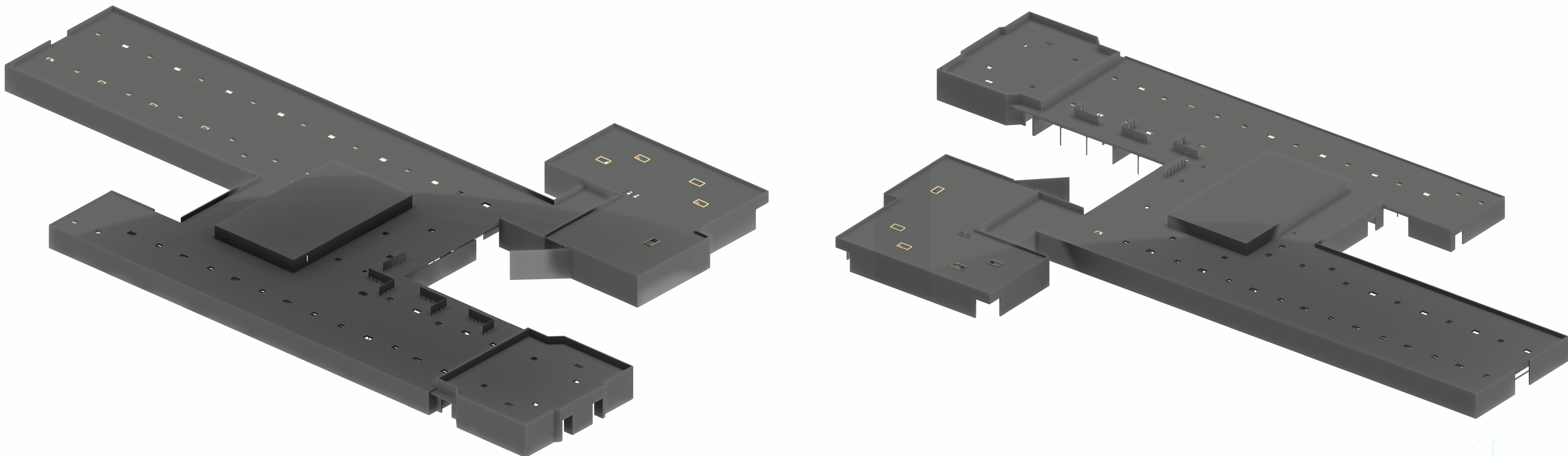
3 STRUCTURAL ABBREVIATIONS

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

5 STRUCTURAL DRAWING SYMBOLS

	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. CONC. T.O. STEEL T.O. PLY DECK BRG		
	ELEVATION OF LEVEL		
	WORKPOINT		
	DIRECTION OF DOWNWARD SLOPE		

ISOMETRIC VIEWS



Project:
HARRISON ELEMENTARY SCHOOL

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
ABBREVIATIONS, SYMBOLS AND SHEET INDEX

Revisions:

Project No: 1021240109
Drawn By: DPC/KK
Checked By: JMW
Date: 01/15/2025

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: $P_g = 15$ PSFFLAT ROOF SNOW LOAD: $P_f = 12$ PSFMINIMUM SNOW LOAD: $P_m = 25$ PSFSNOW EXPOSURE FACTOR: $C_e = 1.0$ SNOW LOAD IMPORTANCE FACTOR: $I_s = 1.1$ SLOPE FACTOR: $C_s = 1.0$ 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: $V = 109$ MPH (3-SECOND GUST)

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: $GC_{pi} = \pm 0.18$

LOCATION	ZONE	COMPONENT TRIBUTARY AREA (SQ FT)		
		10	50	100
ROOF	ZONE 1	10.8/-26.4	9.2/-24.8	8.5/-24.1
	ZONE 2	10.8/-44.2	9.2/-33.3	8.5/-28.6
	ZONE 3	10.8/-66.6	9.2/-40.1	8.5/-28.6
WALLS	ZONE 4	26.4/-28.6	23.6/-25.8	22.4/-24.7
	ZONE 5	26.4/-28.6	23.6/-25.8	22.4/-27.3
PARAPETS	ZONE 4	70.5/-54.9	56.9/-49.4	50.9/-47.1
	ZONE 5	92.9/-61.6	63.6/-53.4	50.9/-49.7

EARTHQUAKE DESIGN DATA:

SITE AND OCCUPANCY PARAMETERS	
SEISMIC IMPORTANCE FACTOR	$I_s = 1.25$
RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	$S_s = 0.190$ $S_1 = 0.082$
SITE CLASS	D-DEFAULT
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	$S_{DS} = 0.202$ $S_{D1} = 0.131$
SEISMIC DESIGN CATEGORY	B

BUILDING PARAMETERS	
SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS
SEISMIC RESPONSE COEFFICIENTS	$C_s = 0.101$
RESPONSE MODIFICATION FACTOR	$R = 2.5$
SYSTEM OVERSTRENGTH FACTOR	$\Omega_o = 2.5$
DEFLECTION AMPLIFICATION FACTOR	$C_d = 2.5$
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR	$V = 99.43$ 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:

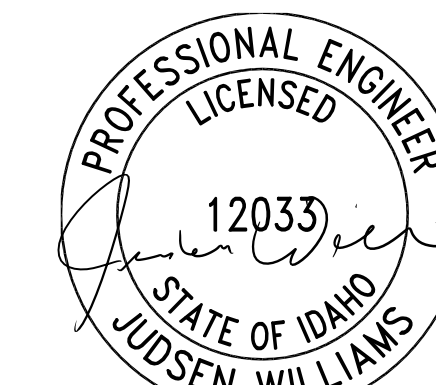
- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL 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.



Project:
HARRISON ELEMENTARY SCHOOL

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
GENERAL STRUCTURAL NOTES

Revisions:

Project No: 1021240109
Drawn By: DPC/K
Checked By: JW
Date: 01/15/2025

Sheet No:
S1.00

BID SET

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. FASTENERS:

A. 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.

B. NAILS: ASTM F1667, COMMON TYPE.

5. 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.

GLUED-LAMINATED CONSTRUCTION:**GENERAL:**

1. FABRICATE GLUED-LAMINATED (GLULAM) MEMBERS IN CONFORMANCE WITH ANSI STANDARD A190.1, "AMERICAN NATIONAL STANDARD FOR STRUCTURAL GLUED LAMINATED TIMBER"

PRODUCTS:

1. GLUED-LAMINATED TIMBER PRODUCTS

A. PROVIDE STRUCTURAL GLUED-LAMINATED TIMBER THAT COMPLIES WITH AITC A190.1 AND AITC 117 OR RESEARCH/EVALUATION REPORTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS FOLLOWS:

GLUED-LAMINATED MEMBERS				
COMBINATION SYMBOL (SPECIES)	USE	FLEXURAL STRESS F_b (PSI)	MODULUS OF ELASTICITY	SHEAR STRESS F_v (PSI)
24F-V4 (DF/DF)	SIMPLE SPAN	+2,400	1,800,000	265
24F-V8 (DF/DF)	CONTINUOUS OR CANTILEVER	2,400	1,800,000	265
L2 (DF/DF)	COLUMNS	1,300	1,800,000	230

- B. APPEARANCE GRADE:

a. ARCHITECTURAL WHEN EXPOSED TO VIEW
b. INDUSTRIAL WHEN CONCEALED FROM VIEW

EXECUTION:

1. DO NO FIELD NOTCH OR BOAR GLUED-LAMINATED MEMBERS UNLESS APPROVED BY ARCHITECT.

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"

B. AWS D1.8 - "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)

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
ANGLES & CHANNELS	A36
PLATES & BARS	A36 A572, GR 50 (WHERE INDICATED)
HSS SECTIONS	A500 GR C A1085 (WHERE INDICATED)
COMMON/MACHINE BOLTS	A307, GR A

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 CONSTRUCTION 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.

CAST-IN-PLACE CONCRETE:**GENERAL:**

1. COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.
2. MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES."

PRODUCTS:

1. CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURES OR FIELD TEST DATA OR BOTH, ACCORDING TO ACI 301.

CONCRETE MIXTURES				
LOCATIONS IN STRUCTURE	DESIGN STRENGTH	MAX UNIT WEIGHT	MAX W/C RATIO	EXPOSURE CATEGORIES
ELEVATED SLAB	4,000 PSI	145 PCF	0.45	F0, S0, W0, C0

EXECUTION:

1. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS.

2. PIPES AND CONDUITS EMBEDDED IN CONCRETE:

A. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ARCHITECT.

B. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.

C. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND 1 1/2" CLEAR FROM REINFORCING BARS.

D. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.

3. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL.

4. SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE. DO NOT EXCEED THE SPECIFIED DECK THICKNESS BY MORE THAN 1/2".

5. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.

REINFORCING STEEL:**GENERAL:**

1. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."

PRODUCTS:

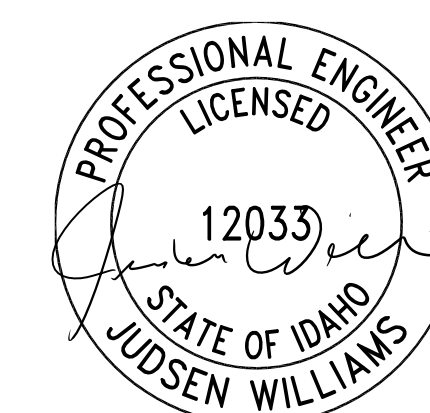
1. REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED

2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064

EXECUTION:

1. PROVIDE THE MINIMUM CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) AS INDICATED IN THE TABLE BELOW.

MINIMUM CONCRETE CLEAR COVER		
LOCATION	BAR SIZE	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	#8 & LARGER	2"
	#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	#14 & LARGER	1 1/2"
	#11 & SMALLER	3/4"



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Project:
HARRISON ELEMENTARY SCHOOL

Harrison Elementary School
600 Harrison St
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Sheet:
GENERAL STRUCTURAL NOTES

Revisions:

Project No: 1021240109
Drawn By: DPC/K
Checked By: JW
Date: 01/15/2025

Sheet No:
S1.01

BID SET

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

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

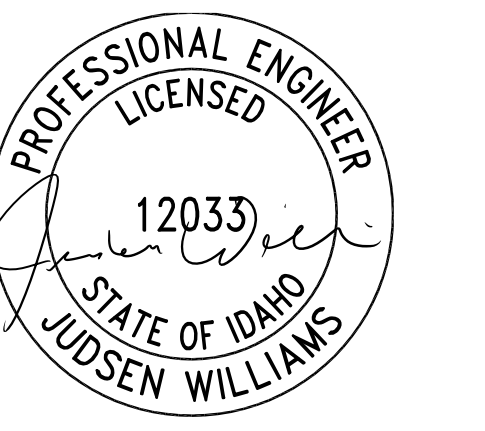
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Project: HARRISON ELEMENTARY SCHOOL
Harrison Elementary School
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Sheet: STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

BID SET

Revisions: Δ

Project No: 1021240109
Drawn By: DPC/K
Checked By: JW
Date: 01/15/2025

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 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), AND ASTM E 943 (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/ACPMO 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/ACPMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER'S 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.

CONTRACTOR RESPONSIBILITY:

FOR SEISMIC DESIGN CATEGORY C, D, E AND F STRUCTURES, THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM OR A WIND OR SEISMIC FORCE-RESISTING COMPONENT LISTED IN TABLES 2C, 3 AND 4. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

* 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.

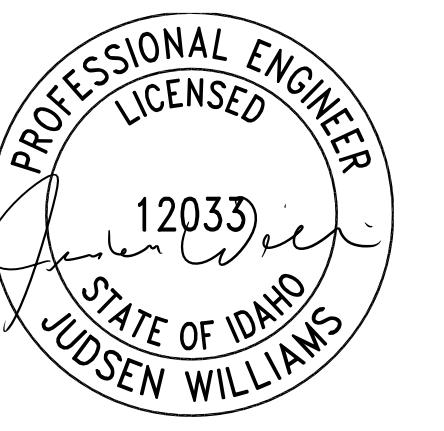
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Project: HARRISON ELEMENTARY SCHOOL
Harrison Elementary School
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Sheet: STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

BID SET

Revisions: 1

Project No: 1021240109
Drawn By: DPC/KK
Checked By: JW
Date: 01/15/2025

Sheet No: S1.03

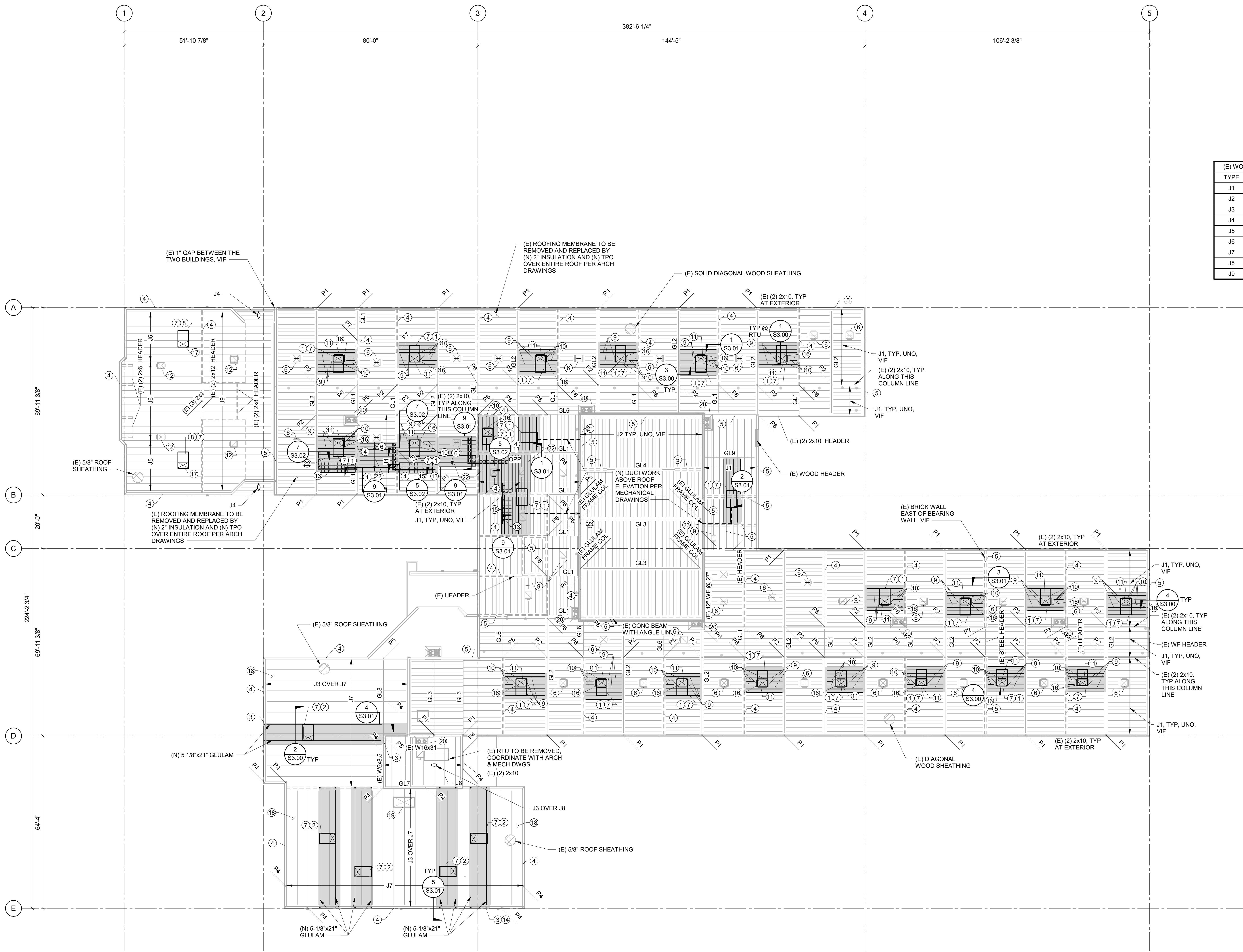
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GENERAL PLAN NOTES:

G1 REFERENCE DRAWINGS:
 S0.00 - ABBREVIATIONS, SYMBOLS AND SHEET INDEX
 S1.0X - GENERAL STRUCTURAL NOTES
 S2.01 - ROOF FRAMING PLAN
 S3.0X - RETROFIT DETAILS

G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS

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

PLAN NOTES:

S1 [Shaded Area] INDICATES AREA WHERE RETROFITS TO (E) ROOF FRAMING IS REQUIRED. (E) SHEATHING TO BE REMOVED FOR JOIST RETROFITS IN SHADED AREA. REPLACE WITH (N) 5/8\"/>

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

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

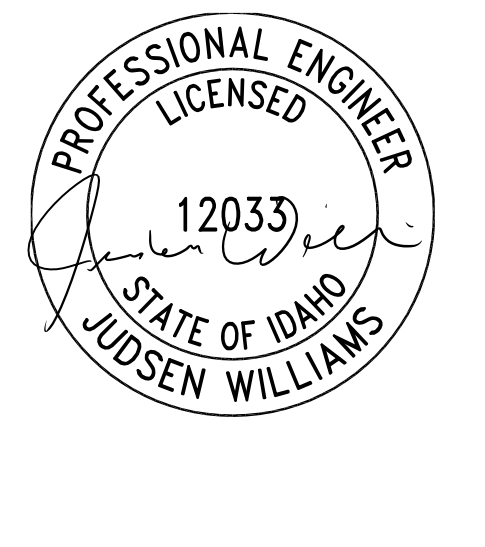
S4 [Beam Symbol] (N) BEAM/JOIST.

S5 [Wood Post/Column Symbol] (N) WOOD POST/COLUMN.

(E) WOOD JOIST SCHEDULE		(E) GLULAM SCHEDULE	
TYPE	SIZE	TYPE	SIZE
J1	2x10 @ 16\"/>		

(E) POST SCHEDULE	
TYPE	SIZE
P1	4x6
P2	5 1/4x5 1/4
P3	5 1/4x3 5/8
P4	3\"/>

KEY NOTES	
KEY VALUE	KEYNOTE TEXT
1	SISTER (E) 2x JOIST WITH (N) 2x PER 1/S3.00, TYP BELOW (N) RTU UNITS.
2	(N) GLULAM/LVL BEAMS BELOW (N) RTU UNITS, SEE DETAIL 2/S3.00.
3	(N) 4x6 WOOD POSTS IN (E) WALL AT EA END OF (N) GLULAM BEAM, TYP. UNO.
4	(E) WOOD BEARING WALL BELOW, 2x4 @ 16\"/>
5	(E) UNREINFORCED BRICK WALL BELOW, 8 1/4\"/>
6	(E) SKYLIGHTS NOT BEING USED AS A (N) RTU DUCT PENETRATION OPENING TO BE IN-FILLED AND COVERED. SEE DETAIL 5/S3.00.
7	(N) RTU, MAX WEIGHT = 850 LBS.
8	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.
9	(E) 2x10, AROUND (E) SKYLIGHTS OPENING, TYP. UNO.
10	(N) 2x10, ATTACH TO (E) OR (N) 2x WITH SIMPSON LUS210 FACE MOUNT HANGER.
11	(E) SKYLIGHT OPENING TO BE ENLARGED FOR (N) RTU DUCT PENETRATIONS, SEE DETAIL 6/S3.00.
12	(E) ROOF OPENING BELOW (E) MECH UNIT OPENING TO BE IN-FILLED AND COVERED, SEE DETAIL 5/S3.00.
13	SCREEN WALL FRAMING AND ATTACHMENT PER 9/S3.01.
14	WOOD POST CONNECTION AT BASE PER 1/S3.02.
15	(N) 2x10 WOOD BLOCKING BETWEEN (E) SISTERED JOISTS, EITHER SIDE OF (N) HSS SCREEN WALL SUPPORT POST.
16	(N) (2) 2x10, ATTACH TO (E) 2x WITH SIMPSON LUS210 FACE MOUNT HANGER.
17	(N) OPENING IN (E) ROOF FOR RTU DUCT PENETRATIONS PER 3/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.
18	IN THE SW ADDITION BUILDING, (E) COOLING UNITS TO BE REMOVED AND ROOF OPENINGS BELOW TO BE IN-FILLED AND COVERED. TYP WITH 5/8\"/>
19	(E) SKYLIGHT TO REMAIN.
20	(N) ROOF DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS. LOCATE BETWEEN (E) JOISTS/BEAMS. DO NOT DAMAGE (E) JOIST/BEAMS DURING PLACEMENT.
21	SEE 6/S3.02 FOR STACKED MECHANICAL OPENING IN (E) BRICK WALL DETAIL.
22	0.148\"/>
23	(N) MECH OPENING IN (E) STUD WALL PER DETAIL 4/S3.02.



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 482 Constitution Way, Suite 111, Idaho Falls, ID 83402, 208.343.7923, hummelarch.com

Project:
HARRISON ELEMENTARY SCHOOL

Harrison Elementary School
 600 Harrison St
 Twin Falls, ID 83301

Sheet:
ROOF FRAMING PLAN

BID SET

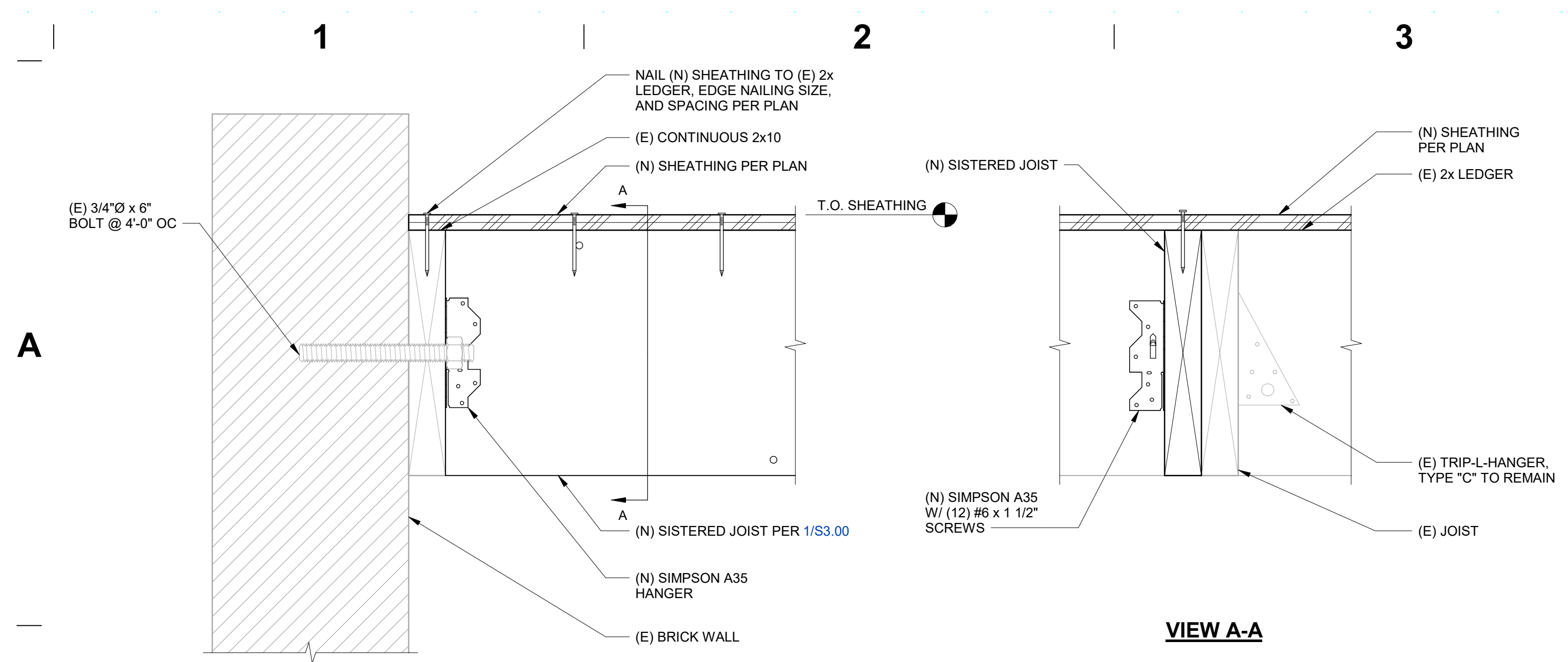
Revisions: △

Project No: 1021240109
 Drawn By: DPC/K
 Checked By: JIW
 Date: 01/15/2025

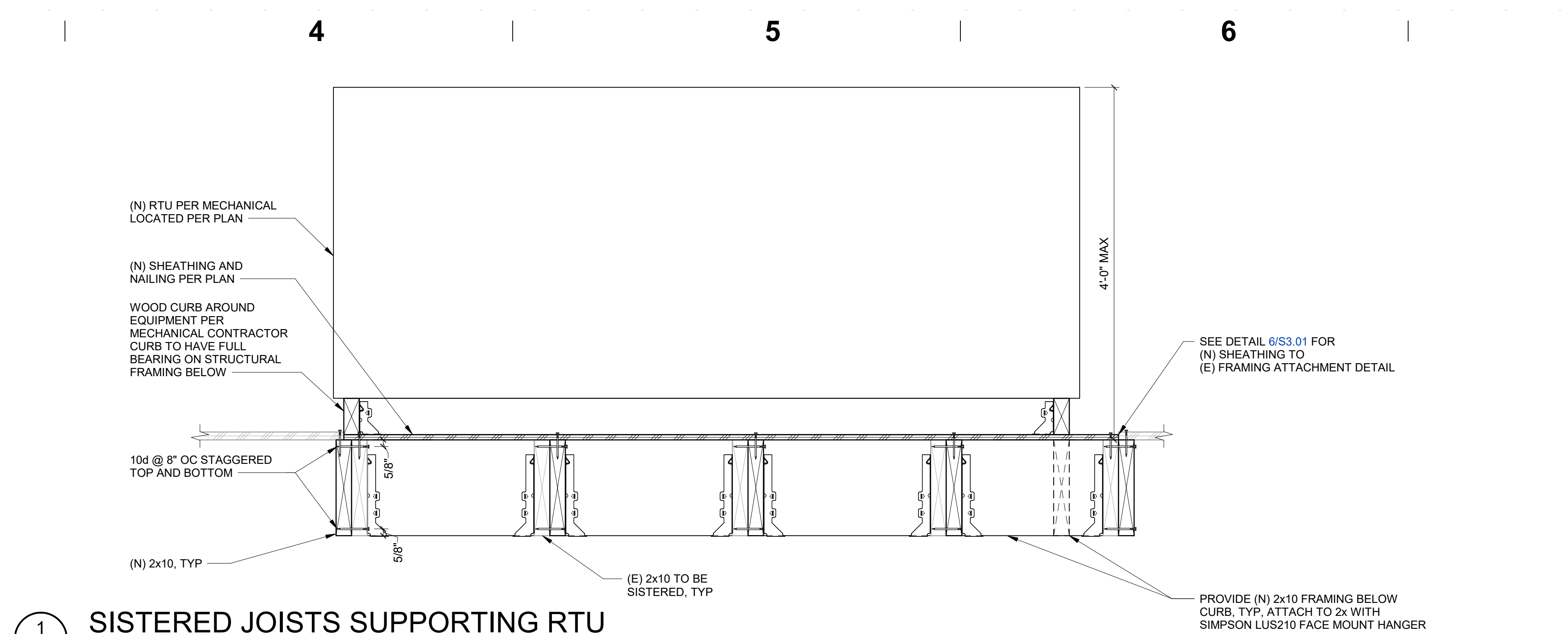
Sheet No: **S2.01**

1 ROOF FRAMING PLAN
 S2.01 1/16\"/>

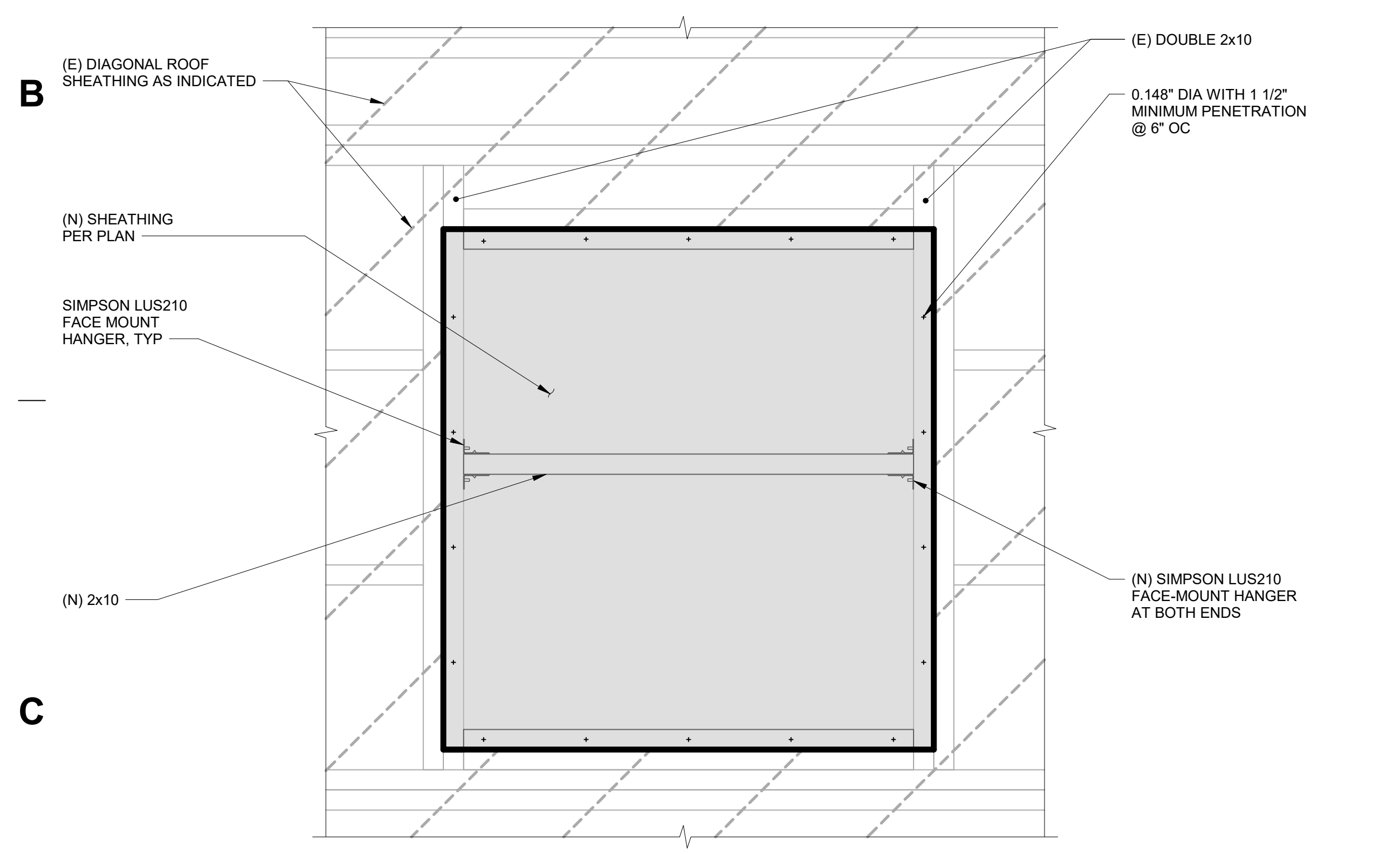




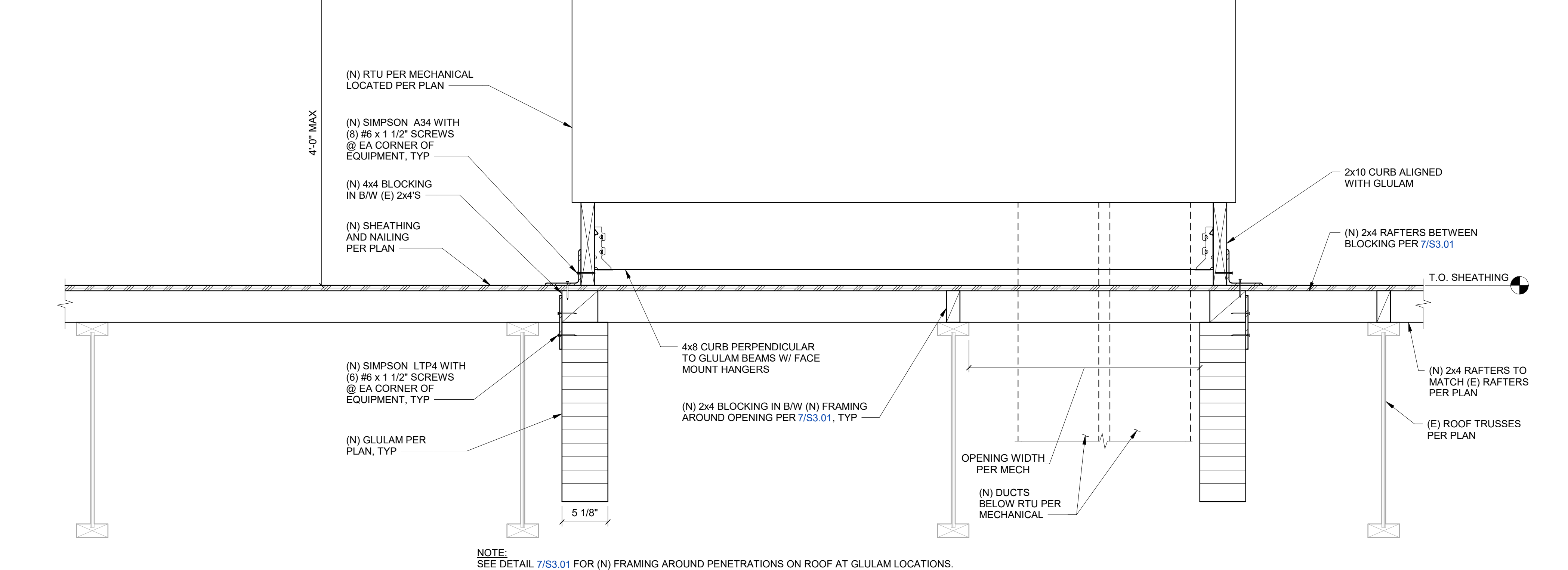
4 END SUPPORT CONNECTION AT BRICK WALL
 S3.00 3" = 1'-0"



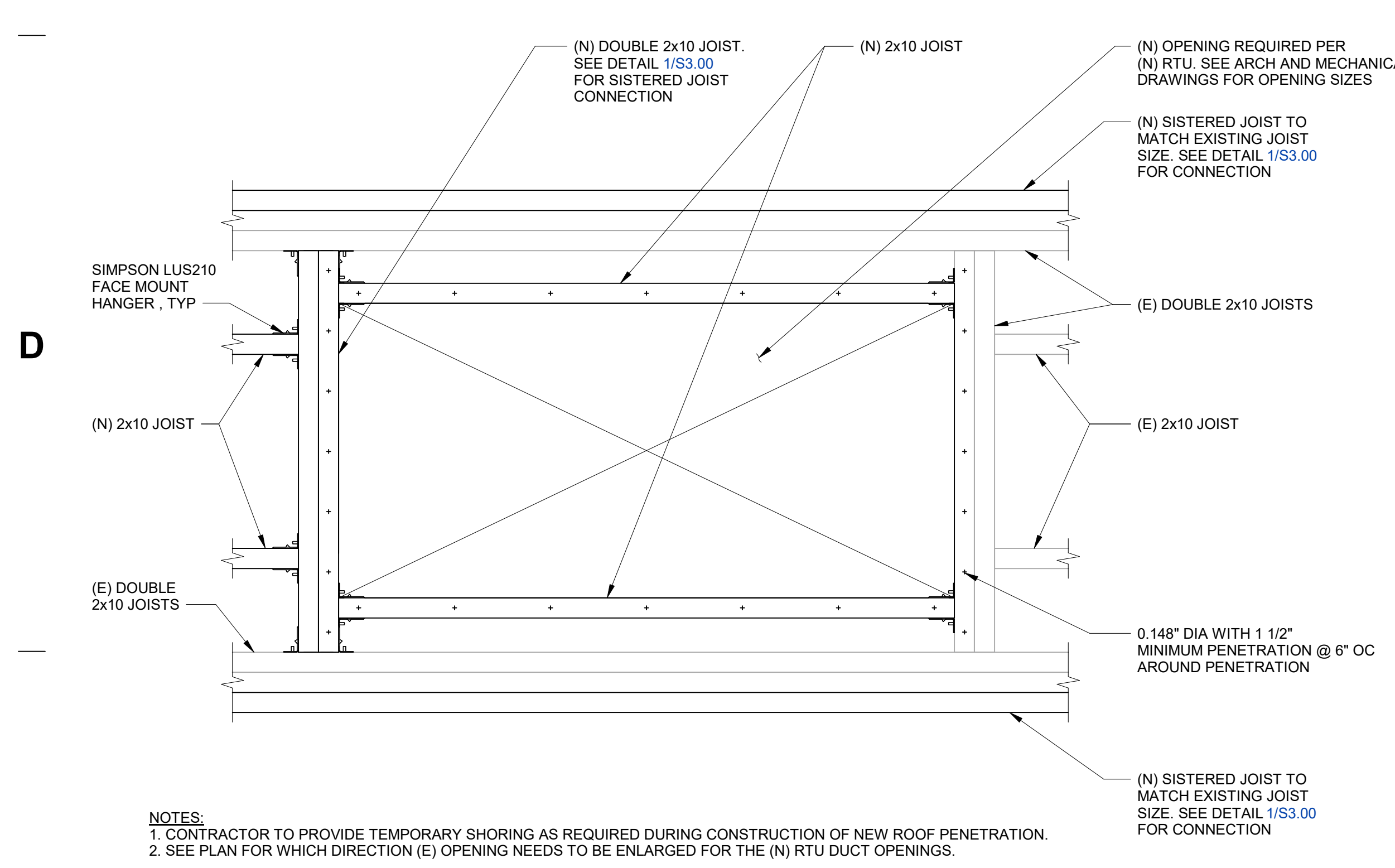
1 SISTERED JOISTS SUPPORTING RTU
 S3.00 1 1/2" = 1'-0"



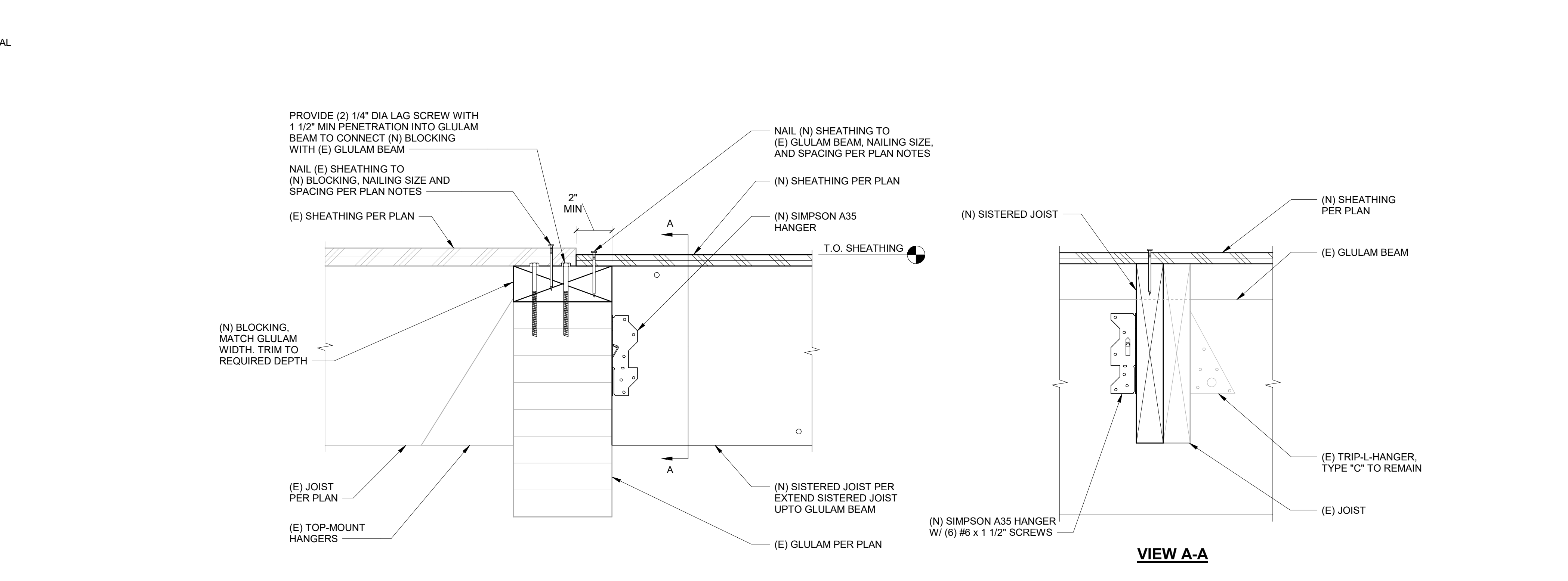
5 (E) ROOF OPENING INFILL DETAIL
 S3.00 1 1/2" = 1'-0"



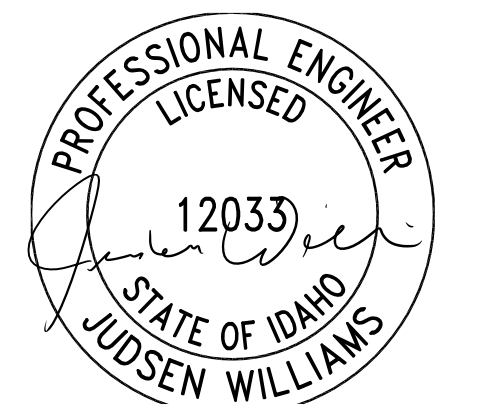
2 (N) GLULAM BEAMS SUPPORTING RTU
 S3.00 1 1/2" = 1'-0"



6 (N) FRAMING FOR PENETRATION ON ROOF
 S3.00 1 1/2" = 1'-0"



3 END SUPPORT CONNECTION AT GLULAM
 S3.00 3" = 1'-0"



Project:
 HARRISON ELEMENTARY SCHOOL
 Harrison Elementary School
 600 Harrison St
 Twin Falls, ID 83301

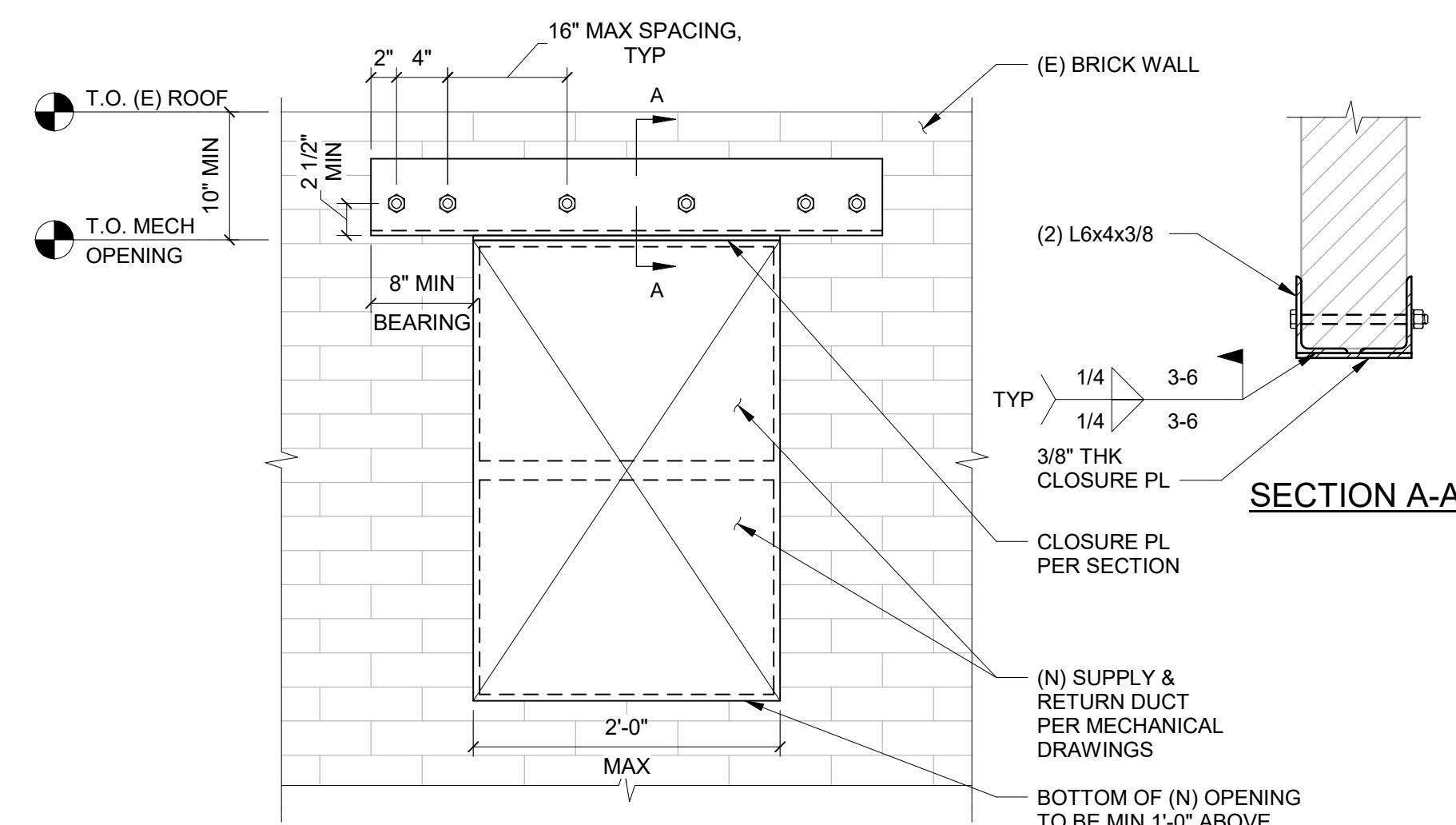
Sheet:
 RETROFIT DETAILS

BID SET

Revisions: Δ

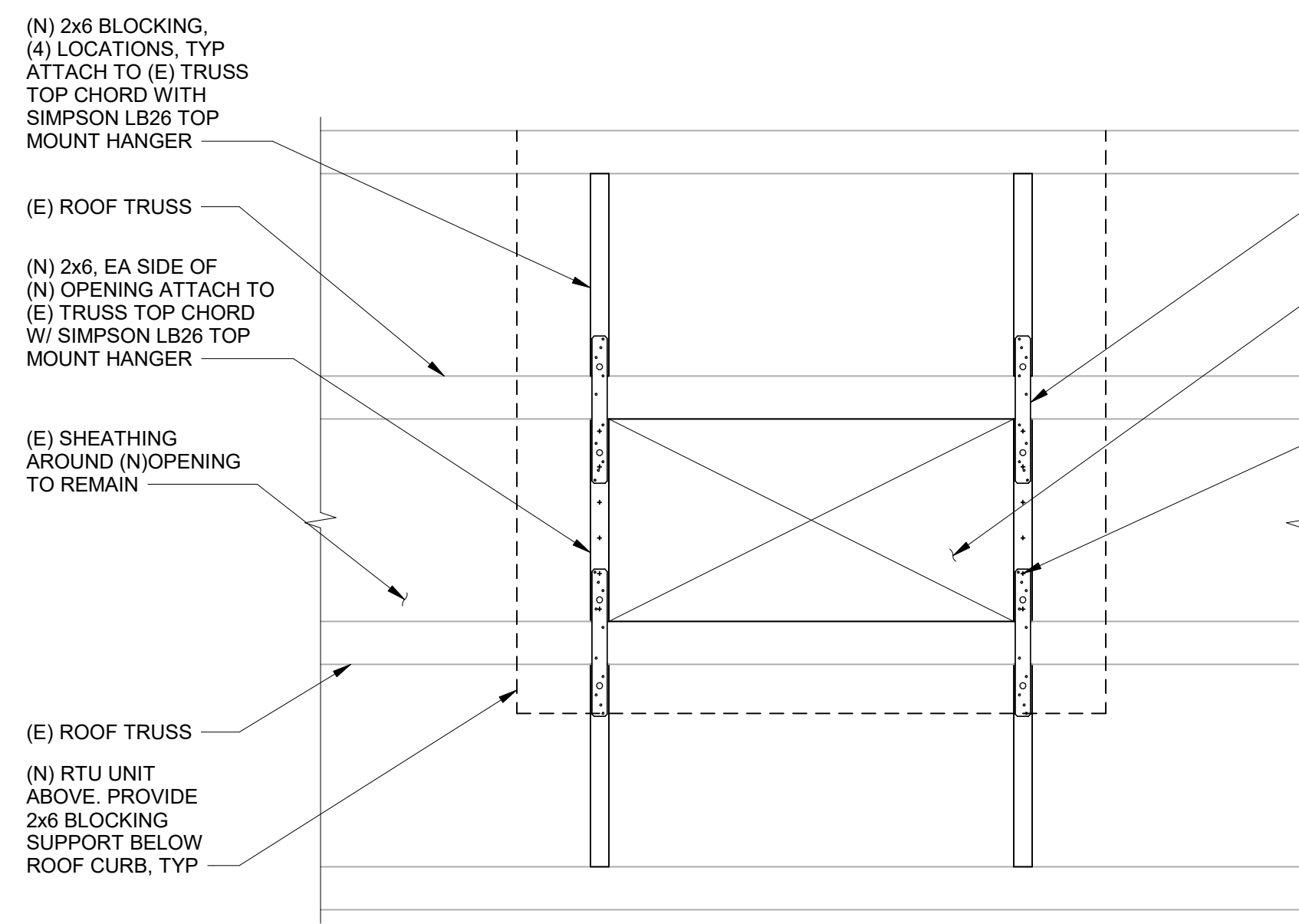
Project No: 1021240109
 Drawn By: DPC/KK
 Checked By: JW
 Date: 01/15/2025

Sheet No: **S3.00**

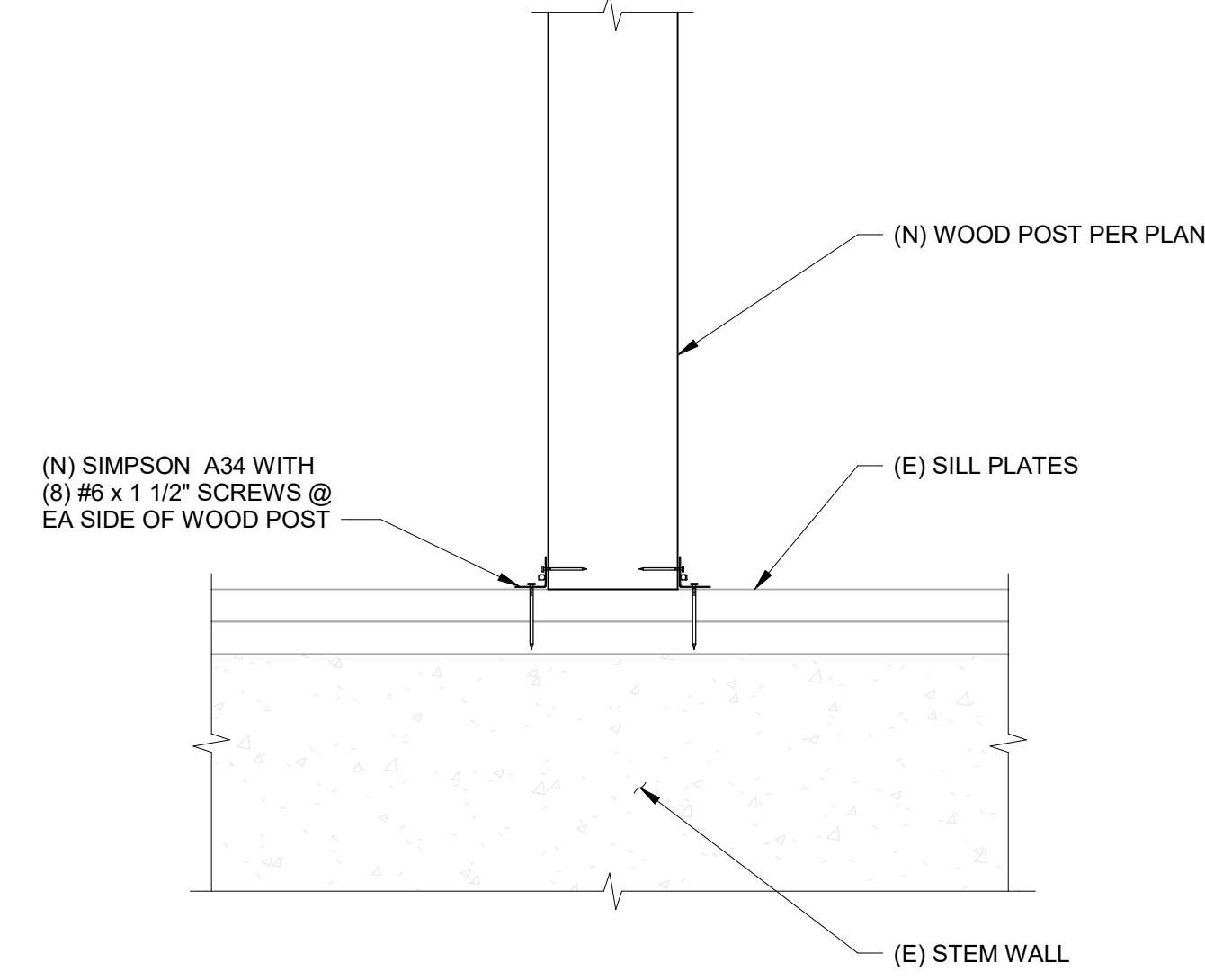


NOTES:
 1. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO ANY DEMOLISHING WORK AND/OR FABRICATION OF DUCTWORK. PLEASE CONTACT ARCHITECT AND SEOR IF THERE ARE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND PROPOSED MODIFICATIONS.
 2. STEEL LINTEL & PLATES EXPOSED TO WEATHER TO BE HOT-DIP GALVANIZED.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

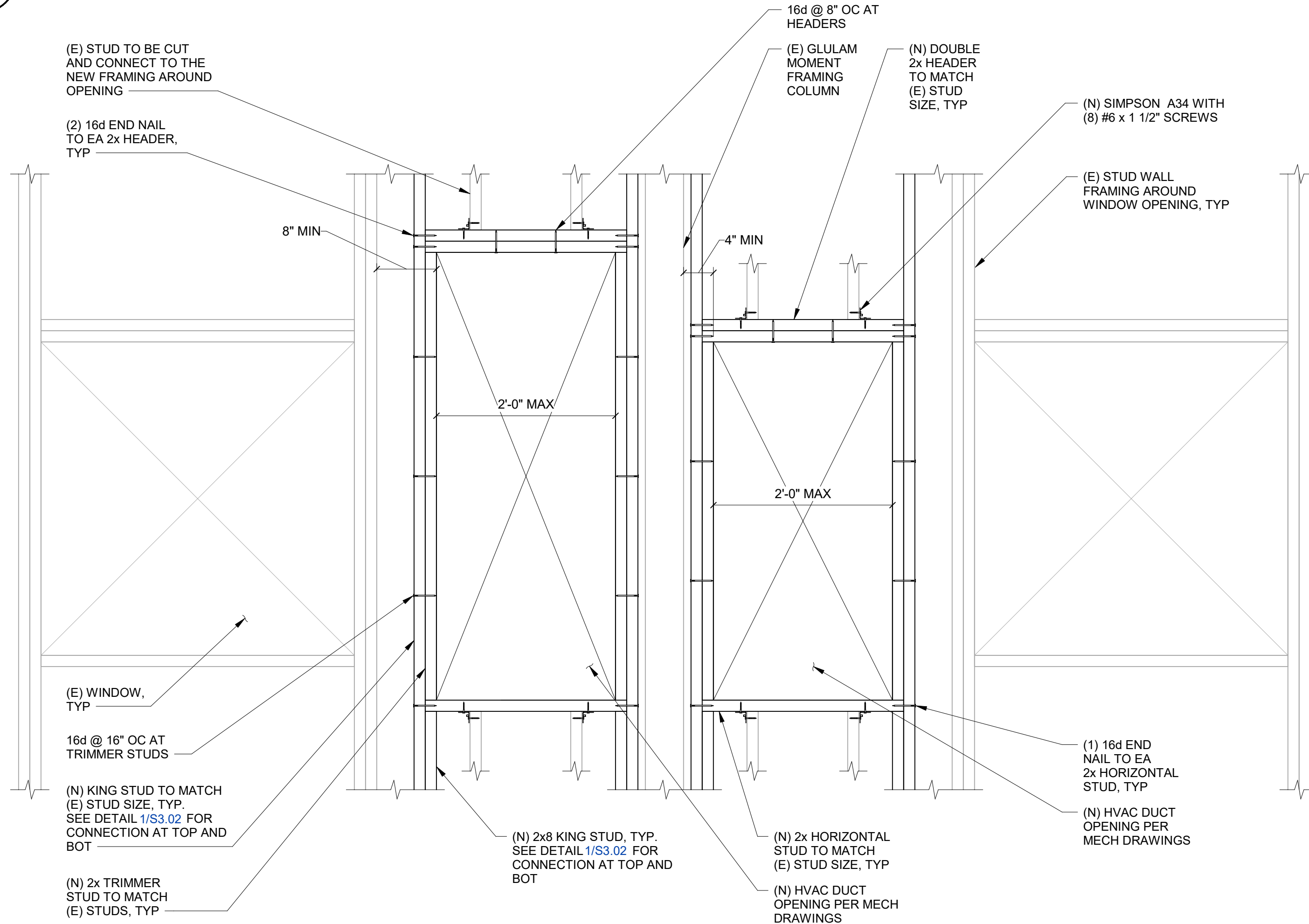
6 S3.02 1" = 1'-0"



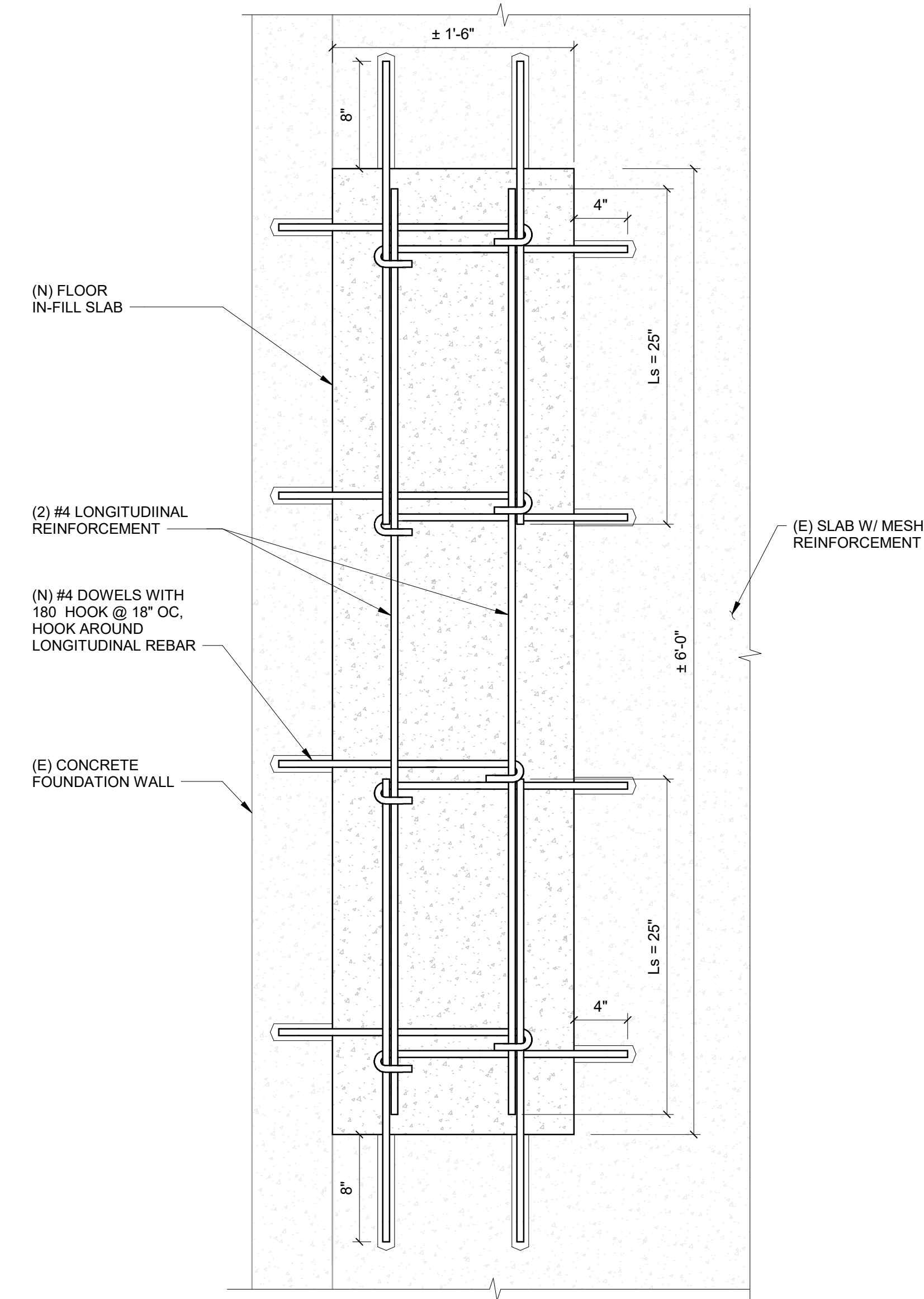
3 S3.02 1" = 1'-0"



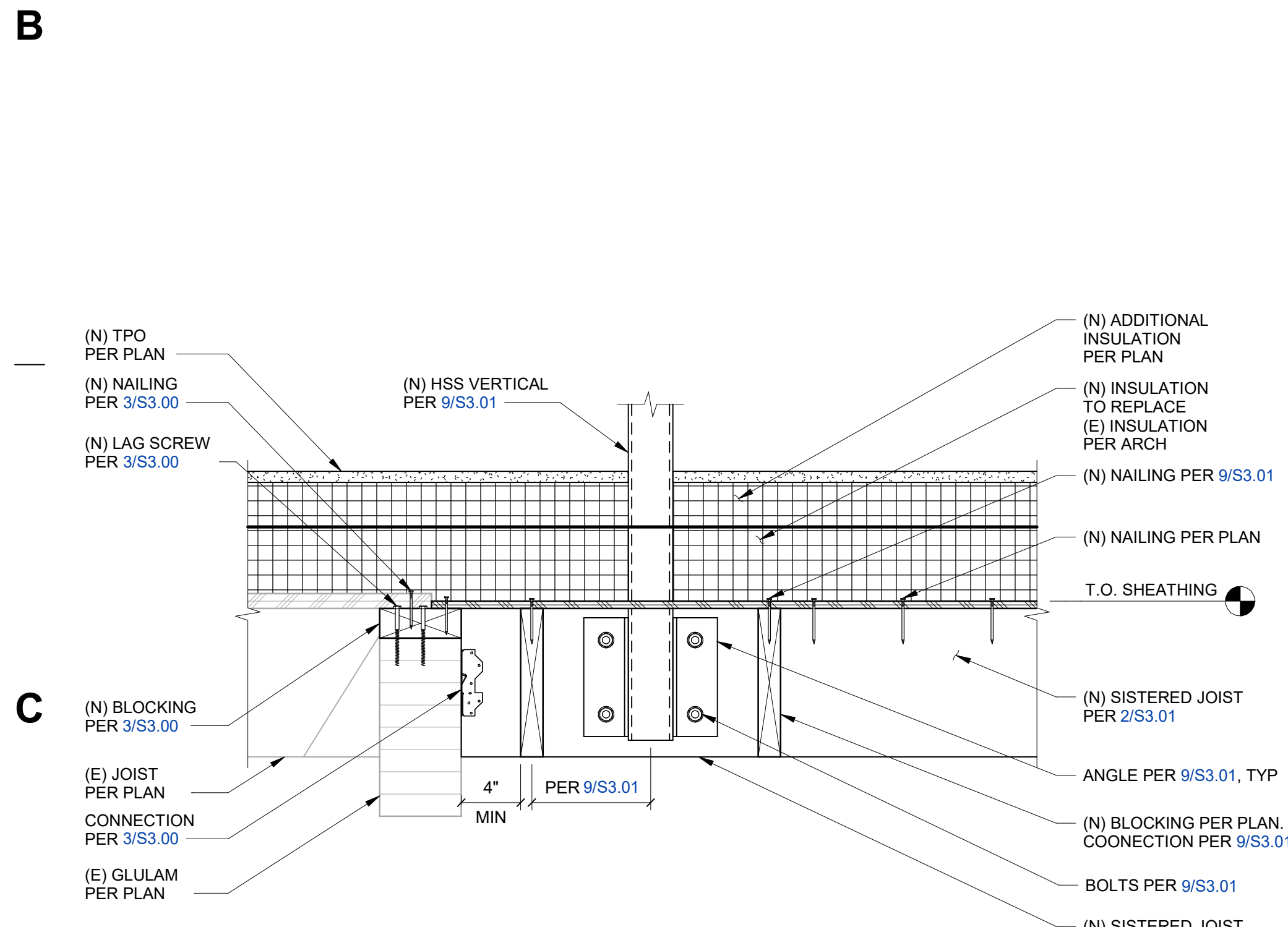
1 S3.02 1 1/2" = 1'-0"



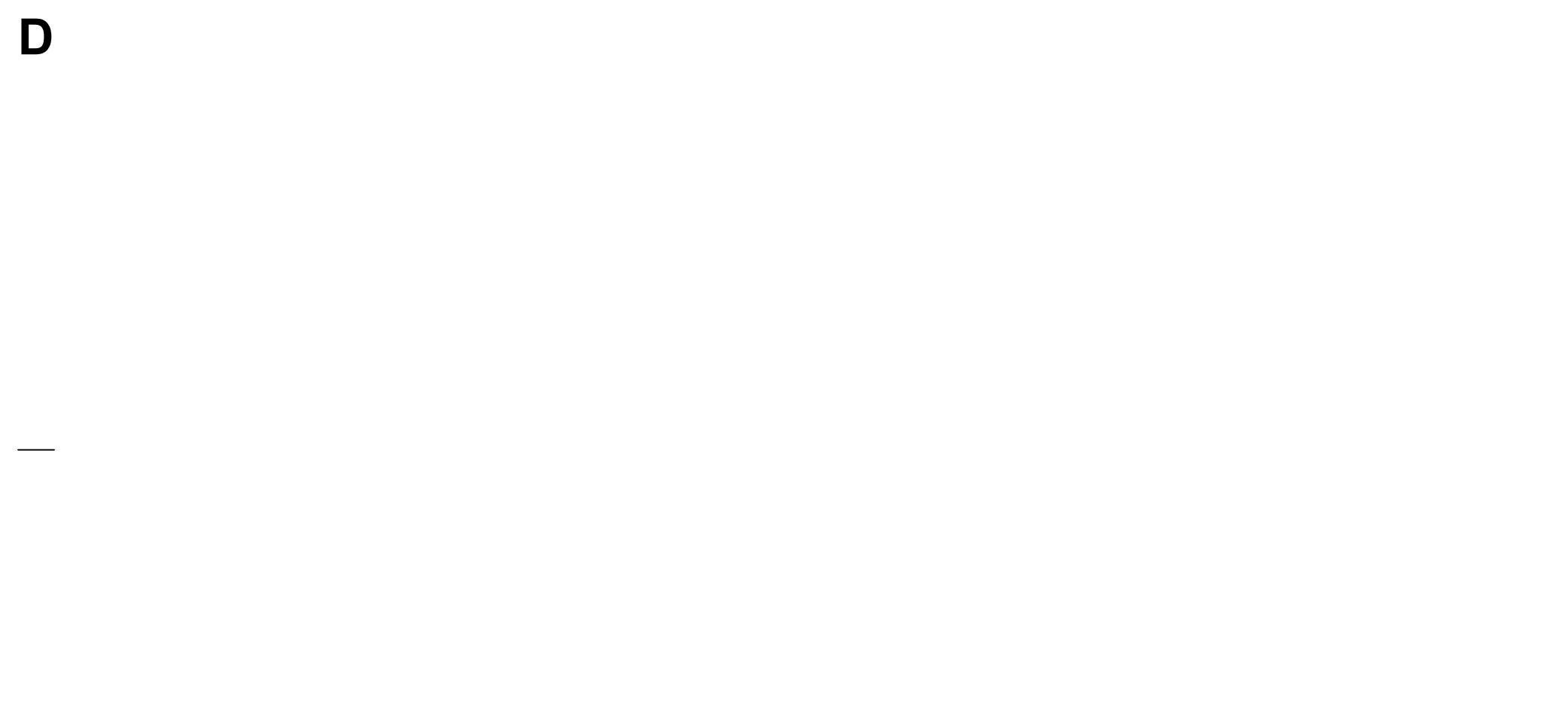
4 S3.02 1" = 1'-0"



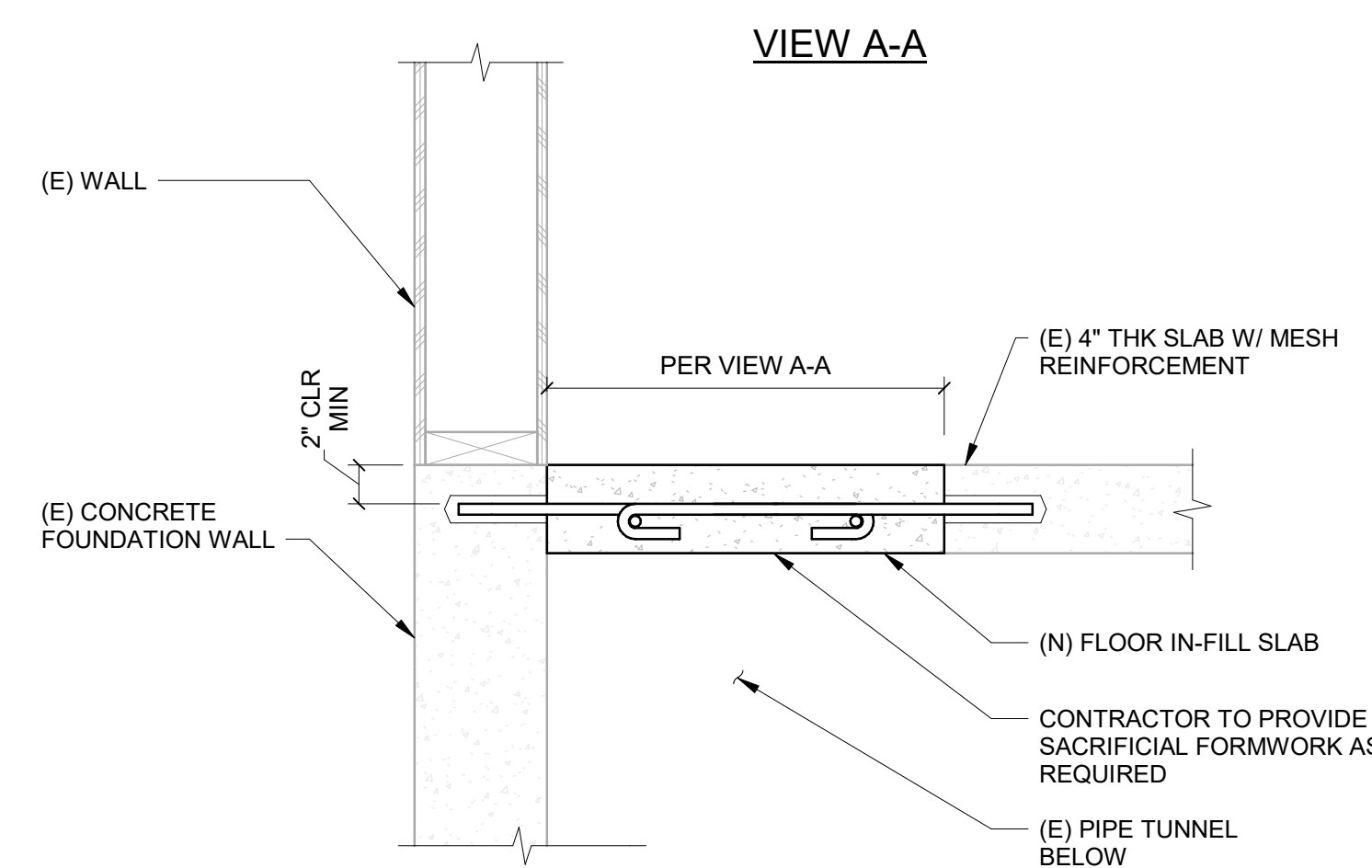
2 S3.02 1 1/2" = 1'-0"



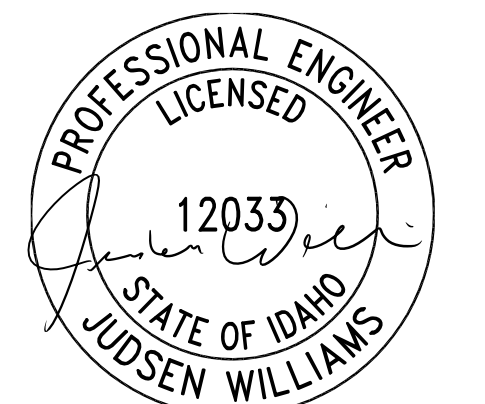
7 S3.02 1 1/2" = 1'-0"



5 S3.02 1 1/2" = 1'-0"



NOTE: SHORING PER CONTRACTOR AND OWNER.



Project:
 HARRISON ELEMENTARY SCHOOL
 Harrison Elementary School
 600 Harrison St
 Twin Falls, ID 83301

Sheet:
 RETROFIT DETAILS

Revisions: Δ

Project No: 1021240109
 Drawn By: DPC/KK
 Checked By: JIW
 Date: 01/15/2025

Sheet No:
 S3.02

BID SET

A

B

C

D

E

GENERAL LEGEND (Not all symbols listed below are used on these drawings)			
ABBR.	SYMBOL	DESCRIPTION	DESCRIPTION
		SECTION DESIGNATION	CAP END OF PIPE
		SECTION CUT ON THIS SHEET	PITCH DOWN IN DIRECTION OF ARROW
		PIPE ANCHOR	PIPE ALIGNMENT GUIDE
		VIEW REFERENCE DESIGNATION	UNION OR FLANGE
		VIEW REFERENCE ON THIS SHEET	CONCENTRIC PIPE REDUCER
		EQUIPMENT UNIT IDENTIFICATION	ECCENTRIC PIPE REDUCER
		EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - SEQUENCE #)	PRESSURE REDUCING VALVE
		DIFFUSER IDENTIFICATION	PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		DIFFUSER NECK DIAMETER	ISOLATION VALVE (RE: SPEC FOR TYPE)
		DIFFUSER CFM	VERTICAL PIPE VALVE
		LINEAR DIFFUSER IDENTIFICATION	CHECK VALVE
		LINEAR DIFFUSER NECK DIAMETER	SOLENOID / MOTORIZED VALVE
		LINEAR DIFFUSER LENGTH	SOLENOID VALVE
		LINEAR DIFFUSER CFM	HOSE END DRAIN VALVE
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH	PRESSURE / TEMPERATURE TAP
		EQUIPMENT UNIT IDENTIFICATION	STRAINER
		EQUIPMENT UNIT NUMBER	STRAINER W/ BLOWDOWN
		RADIATOR ENCLOSURE LENGTH (OR W-W/H-WALL-TO-WALL)	BRIDGED FLEXIBLE PIPE CONNECTOR
		KEY NOTE REFERENCE	DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE	THERMOMETER
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	PRESSURE GAUGE
		POINT OF CONNECTION, NEW TO EXISTING	SIGHT GLASS
		POINT OF DISCONNECTION, DEMO	CEILING ACCESS PANEL
		DIRECTION OF FLOW IN PIPE	PUMP
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED	THRUST BLOCK
(E)		EXISTING	MANUAL AIR VENT
(N)		NEW	A.A.V.
(R)		RELOCATED	WALL ACCESS DOOR
(F)		FUTURE	NOT IN CONTRACT
DIA		DIAMETER	ABOVE FINISHED FLOOR
WAD		WALL ACCESS DOOR	GENERAL CONTRACTOR
NIC		NOT IN CONTRACT	MECHANICAL CONTRACTOR
AFF		ABOVE FINISHED FLOOR	ELECTRICAL CONTRACTOR
GC		GENERAL CONTRACTOR	UNLESS NOTED OTHERWISE
MC		MECHANICAL CONTRACTOR	COMMON
EC		ELECTRICAL CONTRACTOR	NORMALLY CLOSED
UNO		UNLESS NOTED OTHERWISE	NORMALLY OPEN
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

HVAC LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
HWS		HEATING WATER SUPPLY PIPING			SUPPLY DUCT UP / DOWN
HWR		HEATING WATER RETURN PIPING			RETURN DUCT UP / DOWN
HTWS		HIGH TEMPERATURE HEATING WATER SUPPLY PIPING			EXHAUST DUCT UP / DOWN
HTWR		HIGH TEMPERATURE HEATING WATER RETURN PIPING			ROUND DUCT UP / DOWN
CHWS		CHILLED WATER SUPPLY PIPING	48F12		FLAT OVAL DUCTWORK
CHWR		CHILLED WATER RETURN PIPING			FLEXIBLE DUCT CONNECTION
D		COOLING COIL DRAIN PAN PIPING	BDD		BACKDRAFT DAMPER
CWS		CONDENSER WATER SUPPLY PIPING	TCD		TEMP CONTROL DAMPER-OPPPOSED BLADE
CWR		CONDENSER WATER RETURN PIPING	TCD		TEMP CONTROL DAMPER-PARALLEL BLADE
GHWS		GLYCOL HEATING WATER SUPPLY PIPING	MVD		MANUAL VOLUME DAMPER
GHWR		GLYCOL HEATING WATER RETURN PIPING	MD		DUCT MOTORIZED DAMPER
PCWS		PROCESS CHILLED WATER SUPPLY PIPING			CONICAL FITTING WITH MVD
PCWR		PROCESS CHILLED WATER RETURN PIPING			SPIN-IN FITTING WITH MVD
LPS		LOW PRESSURE STEAM SUPPLY PIPING (Ø - 15#)	FD		DUCT FIRE DAMPER
LPC		LOW PRESSURE CONDENSATE RETURN PIPING	FSD		COMBINATION DUCT FIRE/SMOKE DAMPER
MPS		MEDIUM PRESSURE STEAM SUPPLY PIPING (Ø# - 60#)	SD		DUCT SMOKE DAMPER
MPC		MEDIUM PRESSURE CONDENSATE RETURN PIPING			DUCT SMOKE DETECTOR
HPS		HIGH PRESSURE STEAM SUPPLY PIPING (Ø1# - 125#)	DAD		DUCT ACCESS DOOR
HPC		HIGH PRESSURE CONDENSATE RETURN PIPING			TURNING VANES IN DUCT ELBOW
PC		PUMPED CONDENSATE PIPING			ELECTRIC-PNEUMATIC CONTROL VALVE
BBD		BOILER BLOWDOWN PIPING	EP		PNEUMATIC-ELECTRIC CONTROL SWITCH
BF		BOILER FEED WATER PIPING	PE		WALL SWITCH / EMERGENCY SWITCH
RL		REFRIGERANT LIQUID PIPING			TEMPERATURE SENSOR
RS		REFRIGERANT SUCTION PIPING			WALL MOUNTED THERMOSTAT
RHG		REFRIGERANT HOT GAS PIPING			WALL MOUNTED CARBON DIOXIDE SENSOR
TT		THERMOSTATIC STEAM TRAP			FLOAT AND THERMOSTATIC STEAM TRAP
FAT		INVERTED BUCKET STEAM TRAP			HUMIDISTAT
IBT		INVERTED BUCKET STEAM TRAP			UNIT MOUNTED THERMOSTAT
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE			PRESSURE SENSOR / PRESSURE MONITOR
		VENTURI METER			UNDERCUT DOOR
BV		CALIBRATED BALANCING VALVE			LOUVER IN DOOR
AVF		AUTO FLOW VALVE			DUCT RISE
RSV		REFRIGERANT SERVICE VALVE			DUCT DROP
DPS		DIFFERENTIAL PRESSURE SWITCH			ACOUSTICALLY LINED DUCTWORK
FS		FLOW SWITCH	A.L.		TEMPERATURE CONTROL OUTSIDE AIR DAMPER
EJ		EXPANSION JOINT	TCOD		TEMPERATURE CONTROL RETURN AIR DAMPER
BJ		BALL JOINT EXPANSION COMPENSATOR	TCRAD		TEMPERATURE CONTROL EXHAUST AIR DAMPER
SA		SUPPLY AIR	TEAD		STATIC PRESSURE IN INCHES WATER COLUMN
RA		RETURN AIR	SP IN WC		END OF MAIN DRIP
EA		EXHAUST AIR	SCOR		SHORT CIRCUIT CURRENT RATING
OA		OUTSIDE AIR			SUPPLY AIR DEVICE
					RETURN AIR DEVICE
					RETURN AIR DEVICE WITH SOUND BOOT
					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 DOC 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 DOC 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.

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.
- SUPPLY AIR DUCTWORK SHALL BE LOW-PRESSURE.
- 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. INTERIOR RETURN AIR DUCTWORK SHALL NOT BE WRAPPED BUT EXTERIOR AND ATTIC RETURN DUCTWORK SHALL MEET MINIMUM INSULATION VALUES PER IECC. EXHAUST DUCTWORK DOES NOT REQUIRE INSULATION.
- ALL EXPOSED DUCTWORK SHALL BE SPIRAL OR FLAT OVAL WITH LABELS REMOVED, FREE OF IMPERFECTIONS, AND PREPPED 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 SHALL 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, OWNER'S 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, CONVECTORS/RADIATORS, UNIT VENTILATORS, 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 VIA AN UNDERGROUND TUNNEL SYSTEM.
- THE EXISTING STEAM HEATING AND ALL LOUVERS OR CONNECTIONS TO OUTDOORS SHALL BE INSULATED AND FILLED (RE ARCH).
- EXISTING SWAMP COOLERS SHALL BE DEMOLISHED INCLUDING ALL PIPING, HANGERS, SUPPORTS, ROOF CURBS, AND AIR DEVICES. WHERE PIPING PASSES THROUGH THE ROOF, THE ROOF 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 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 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 ENGINEERS IF ANY STEAM EQUIPMENT IS NOT SHOWN ON DEMO PLANS.

IECC INFORMATION ON CONSTRUCTION DOCUMENTS FOR MECHANICAL DRAWINGS	
THE FOLLOWING INFORMATION IS PROVIDED TO ACCOMMODATE THE REQUIREMENTS FOR THE CODE SECTION REFERENCED BELOW ON LINE ITEMS 4, 5, 6, 7, 8, & 9 FOR MECHANICAL SYSTEMS ON THIS PROJECT.	
IECC 2015/2018-C103.2 INFORMATION ON CONSTRUCTION DOCUMENTS.	
4. MECHANICAL SYSTEM DESIGN CRITERIA.	
<input type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
HVAC HEATING & COOLING LOADS ARE CALCULATED IN ACCORDANCE WITH THE ASHRAE FUNDAMENTALS HANDBOOK	
DESIGN PROJECT ELEVATION	
<input type="checkbox"/>	3700 FEET ELEVATION FOR THE PROJECT SITE LOCATION
<input type="checkbox"/>	0.87 ALTITUDE CORRECTION FACTOR FOR HEAT TRANSFER CALCULATION REQUIRED.
DESIGN TEMPERATURES	
<input type="checkbox"/>	95 °F DB OUTDOOR SUMMER
<input type="checkbox"/>	62.6 °F WB OUTDOOR SUMMER
<input type="checkbox"/>	7 °F WB OUTDOOR WINTER
<input type="checkbox"/>	75 °F DB INDOOR SUMMER
<input type="checkbox"/>	30 %RH INDOOR SUMMER
<input type="checkbox"/>	70 °F WB INDOOR WINTER
DESIGN OUTSIDE AIR VENTILATION	
<input checked="" type="checkbox"/>	IMC 2015/2018 CHAPTER 4
<input type="checkbox"/>	ASHRAE STANDARD 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
<input type="checkbox"/>	ASHRAE STANDARD 62.2 VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY IN LOWRISE RESIDENTIAL BUILDINGS
<input type="checkbox"/>	ANSI/ASHRAE/ASHI STANDARD 170 VENTILATION OF HEALTH CARE FACILITIES
5. MECHANICAL AND SERVICE WATER HEATING SYSTEM AND EQUIPMENT TYPES, SIZES AND EFFICIENCIES.	
<input checked="" type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
<input type="checkbox"/>	REFER TO EQUIPMENT SCHEDULES, NOTES & SPECIFICATIONS FOR SYSTEM & EQUIPMENT TYPES, EQUIPMENT SIZES & EFFICIENCIES.
6. ECONOMIZER DESCRIPTION.	
<input type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
<input checked="" type="checkbox"/>	REFER TO ECONOMIZER SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON DRAWINGS FOR DESCRIPTION OF AIR HANDLING & ROOFTOP UNITS.
7. EQUIPMENT AND SYSTEM CONTROLS.	
<input type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
<input checked="" type="checkbox"/>	REFER TO SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON THE DRAWINGS FOR EQUIPMENT & SYSTEM CONTROLS.
8. FAN MOTOR HORSEPOWER (HP) AND CONTROLS.	
<input checked="" type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
<input type="checkbox"/>	REFER TO EQUIPMENT SCHEDULES FOR FAN MOTOR HORSEPOWER (HP). REFER TO SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON THE DRAWINGS FOR FAN CONTROLS.
9. DUCT SEALING, DUCT AND PIPE INSULATION AND LOCATION.	
<input type="checkbox"/>	NOT APPLICABLE TO THIS PROJECT.
<input checked="" type="checkbox"/>	REFER TO SPECIFICATION SECTION 233113 MECH DUCTS FOR DUCT SEALING REQUIREMENTS. REFER TO SPECIFICATION SECTION 230700 INSULATION FOR MECHANICAL SYSTEMS FOR DUCT & PIPE INSULATION REQUIREMENTS FOR THE SYSTEMS SHOWN ON THE DRAWINGS.

CATOR | RUMA
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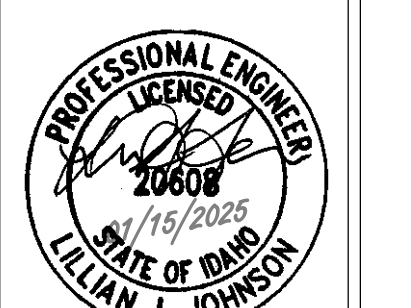
HUMMEL
ARCHITECTS
205 N. 10th Street, Suite 500, Boise, Idaho 83702, 208.343.7923
482 Constitution Way, Suite 101, Idaho Falls, ID 83402, 208.343.7923
hummelarch.com

Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
800 Harrison St
Twin Falls, ID 83301

Sheet:
MECHANICAL LEGENDS & NOTES

100% CD



Revisions: △

Project No: 23028
Drawn By: AK
Checked By: MG
Date: 1/15/2025

Sheet No:
M0.01

EQUIPMENT SOUND DATA SCHEDULE

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCRR, 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.

DESIG.	NAME	NO.	INLET NC (Hz)						OUTDOOR NC (Hz)						DISCHARGE NC (Hz)						SONES	REMARKS		
			63	125	250	500	1K	2K	63	125	250	500	1K	2K	63	125	250	500	1K	2K			4K	8K
RTU 1	632	75.4	67.2	58.1	66.6	57	47.5	44.7	61.8	61.8	77	73.3	68.9	64.5	59.3	65.5	69.1	80.7	79.9	65.5	63.1	62.5	59	56.8
RTU 2	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 3	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 4	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 5	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 6	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 7	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 8	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6
RTU 9	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 10	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 11	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 12	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 13	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 14	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 15	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6
RTU 16	80.6	77.6	72	63	65.7	65.7	60.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59
RTU 17	80.6	77.6	72	63	65.7	65.7	60.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59
RTU 18	80.6	77.6	72	63	65.7	65.7	60.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59
RTU 19	80.6	77.6	72	63	65.7	65.7	60.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59
RTU 20	81.4	78.9	72.6	64.7	67.2	67.2	61.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9
RTU 21	81.4	78.9	72.6	64.7	67.2	67.2	61.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9
RTU 22	81.4	78.9	72.6	64.7	67.2	67.2	61.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9
RTU 23	81.4	78.9	72.6	64.7	67.2	67.2	61.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9
RTU 24	81.8	79.6	73	65.6	67.9	67.9	62.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3
RTU 25	81.8	79.6	73	65.6	67.9	67.9	62.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3
RTU 26	81.8	79.6	73	65.6	67.9	67.9	62.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3
RTU 27	81.8	79.6	73	65.6	67.9	67.9	62.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3
RTU 28	81.8	79.6	73	65.6	67.9	67.9	62.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3
RTU 29	83.6	82.1	74.4	68.5	70.4	64.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8	
RTU 30	83.6	82.1	74.4	68.5	70.4	64.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8	
RTU 31	83.6	82.1	74.4	68.5	70.4	64.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8	

AIR DEVICE SCHEDULE

REMARKS:
GENERAL - APPLIES TO ALL AIR DEVICES: MANUAL VOLUME DAMPERS SHALL BE ACCEPTABLE IN DUCTWORK AT THE BRANCH POINT OF THE RUNOUT DUCT OR IN-LINE TO THE AIR DEVICE BY THE CONTRACTOR INSTALLING DUCTWORK. A DAMPER LOCATED AT THE AIR DEVICE SHALL BE ACCEPTABLE WHEN PERMITTED BY ENGINEER ON A CASE-BY-CASE BASIS OR WHEN THE MANUFACTURER REQUIRES AN INTEGRAL MANUAL VOLUME DAMPER.

1.

DESIG.	FUNCTION	STYLE	MFR.	MODEL	FRAME STYLE	MODULE SIZE	MATERIAL	FINISH	REMARKS
A	SIDEWALL SUPPLY	ADJUSTABLE VANES, DOUBLE DEFLECTION, 34" O.C.	PRICE	520	SURFACE	SEE PLANS	STEEL	WHITE	
B	SIDEWALL RETURN, TRANSFER	FIXED ANGLE VANES, 34" O.C.	PRICE	530	SURFACE	SEE PLANS	STEEL	WHITE	
C	CEILING SUPPLY	PLAQUE FACE FIXED PATTERN, RECTANGULAR DIFFUSER	PRICE	SPD	SEE PLANS	24X24	STEEL	WHITE	
D	CEILING RETURN	MODULAR PERFORATED FACE GRILLE	PRICE	PDOR	SEE PLANS	SEE PLANS	STEEL	WHITE	
E	SUPPLY RETURN	CONCENTRIC SUPPLY/RETURN DIFFUSER WITH PLENUM	RUSKIN	CDS-18	SURFACE	24X48	ALUMINUM	WHITE	

CABINET UNIT HEATER SCHEDULE (ELECTRIC)

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCRR, 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.
2. PROVIDE WITH INTEGRAL THERMOSTAT.
3. PROVIDE REMOTE WALL MOUNTED THERMOSTAT.
4. SURFACE MOUNTED MODEL.
5. PROVIDE RECESSED FRAME.
6. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

DESIG.	NAME	NO.	AIR OPENINGS		ELECTRIC HEAT			FAN MOTOR		AIR TEMP		ELECTRICAL		SIZE (INCHES)			OPER WEIGHT (LBS)	REMARKS	
			INLET	OUTLET	KW	MBH	STAGES	CFM (HIGH)	NO.	EAT (°F)	LAT (°F)	VOLTAGE	PHASE	L	D	H			
EHU 1	WALL SURFACE	FRONT BOTTOM	FRONT TOP	MARKEL	6333002	2	6.8	2	250	1	60	89.0	208	3	33.0	9.0	25.0	100	12.4.6
EHU 2	WALL SURFACE	FRONT BOTTOM	FRONT TOP	MARKEL	6333003	3	10.2	2	250	1	60	89.0	208	3	33.0	9.0	25.0	100	12.4.6
EHU 3	WALL RECESSED	FRONT BOTTOM	FRONT TOP	MARKEL	6333002	2	6.8	2	250	1	60	103.0	208	3	33.0	9.0	25.0	100	12.5.6

UNIT HEATER SCHEDULE (ELECTRIC)

REMARKS:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCRR, 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.
2. PRODUCT IS SUITABLE FOR INSTALLATION AT ALTITUDES ABOVE 6000 FEET.
3. REFER TO PLANS FOR THERMOSTAT LOCATION, REMOTE OR INTEGRAL. PROVIDE 2-STAGE THERMOSTAT CONTROL WHERE 2-STAGE HEATING ELEMENT IS INDICATED.
4. UNITS PROVIDED WITH INTEGRAL AUTOMATIC RESETTING LIMIT CONTROL FOR OVER-TEMPERATURE CONDITION ON HEATER.
5. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.

DESIG.	NAME	NO.	MFR	MODEL	HEATING CAPACITY			FAN MOTOR		AIR TEMP		SIZE (INCHES)			OPER. WEIGHT (LBS)	ELECTRICAL		MAX MTG. HEIGHT TO BOTTOM (FT.)	CONTROL	REMARKS
					KW	MBH	STAGES	AIRFLOW (CFM)	NO.	EAT (°F)	LAT (°F)	L	D	H		VOLTAGE	PHASE			
EHU			MARKEL	UH05	5	17.1	1	400	1	60	99	20	11	13	44	208	3	9	SEE SPEC	12.3.4

ROOF TOP UNIT SCHEDULE

COMMON NOTES (APPLIES TO ALL UNITS):
A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCRR, 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 CURB 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 PRESSURE DROP INCLUDED IN SIZING OF FAN.

DESIG.	NAME	NO.	AREA SERVED	MFR	MODEL NO.	SUPPLY FAN SECTION										POWER EXHAUST FAN SECTION										COOLING COIL SECTION						DESIG.											
						OPERATION	WHEEL	DRIVE (BELT/DIRECT)	RPM	REQ'D BHP	MAX HP SIZE	SUM OF MAX HP ALL FANS	NO. OF VFDs	VFD BYPASS (YES/NO)	VIBRATION ISOLATOR TYPE	AT ELEV	ESP (IN WC)	TSP (IN WC)	NO. OF FANS	DIA. (IN)	TYPE (AF/BF/FC)	DRIVE (BELT/DIRECT)	RPM	REQ'D BHP	MAX HP SIZE	SUM OF MAX HP ALL FANS	VOLTAGE	PHASE	NO. OF VFDs	VFD BYPASS (YES/NO)	VIBRATION ISOLATOR TYPE		NET FACE AREA (SF)	AT ELEV	CFM	MBH	MBH TOTAL	"F DB"	"F WB"	"F DB"	"F WB"	NAME	NO.
RTU 1	FACULTY ROOM AND WORKROOM	CARRIER	48GEM06A2A6-0A3A0	360	1,200	0.50	0.60	1	19	FC	DIRECT	1696	0.30	1.07	1.07	1	No	SEE SPEC	1300	0.40	0.50	1	0	FC	DIRECT	0	0	0.5	0.5	208	3	1	No	SEE SPEC	6	1400	38	46	81	64	53	52	RTU 1
RTU 2	CLASSROOM	CARRIER	48GEM06A2A6-0A3A0	420	1,400	0.50	0.64	1	19	FC	DIRECT	1742	0.50	1.96	1.96	1	No	SEE SPEC	1300	0.40	0.50	1	0	FC	DIRECT	0	0	0.5	0.5	208	3	1	No	SEE SPEC	6	1400	38	46	81	64	53	52	RTU 2
RTU 3	CLASSROOM	CARRIER	48GEM06A2A6-0A3A0	420	1,400	0.50	0.64	1	19	FC	DIRECT	1742	0.50	1.96	1.96	1	No	SEE SPEC	1300	0.40	0.50	1	0	FC	DIRECT	0	0	0.5	0.5	208	3	1	No	SEE SPEC	6	1400	38	46	81	64	53	52	RTU 3
RTU 4	CLASSROOM	CARRIER	48GEM06A2A6-0A3A0	420	1,400	0.50	0.64	1	19	FC	DIRECT	1742	0.50	1.96	1.96	1	No	SEE SPEC	1300	0.40	0.50	1	0	FC	DIRECT	0	0	0.5	0.5	208	3	1	No	SEE SPEC	6	1400	38	46	81	64	53	52	RTU 4
RTU 5	CLASSROOM	CARRIER	48GEM06A2A6-0A3A0	420	1,400	0.50	0.64	1	19	FC	DIRECT	1742	0.50	1.96	1.96	1	No	SEE SPEC	1300	0.40	0.50	1	0	FC	DIRECT	0	0	0.5	0.5	208													

COMcheck Software Version 4.1.5.5 Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: TFSD DISTRICT WIDE HVAC REPLACEMENT
Location: Twin Falls, Idaho
Climate Zone: 5B
Project Type: Alteration

Construction Site: HARRISON ELEMENTARY SCHOOL
Owner/Agent: LILLY JOHNSON P.E.
Designer/Contractor: CATOR RUMA BOISE, ID

Mechanical Systems List

Quantity System Type & Description
27 RTU 1 THRU 27 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
27 RTU 28 THRU 30 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
3 RTU 5,7 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h

Mechanical Compliance Statement

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

Lilly Johnson, P.E. Name - Title Signature Date

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

* CALCULATION DONE BASED ON SMALLEST CLASSROOM SERVED BY UNIT

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

* CALCULATION DONE BASED ON SMALLEST CLASSROOM SERVED BY UNIT

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

Table with columns: SYSTEM, CIRCUIT CHARGE (LB), TYPE, CLASSIFICATION, REFRIGERANT CHARGE ALLOWED, RCL PER CF, NAME, SQ FT, HEIGHT, ROOM CU FT, TOTAL VOLUME, OCC. FACTOR, EDVC (LBS), COMPLIANT

RTU 1 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 2,3,4 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 5,7 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 6,8 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 9,10,11,12 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 13 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 14 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 15 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 16,17,18,19 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 20, 23 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 21 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 22 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

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

RTU 25,26 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 27 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 28 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

RTU 29,30,31 OUTSIDE AIR VENTILATION CALCULATIONS (OA) - Table with columns: AIR SYSTEM TAG, ROOM OCCUPANCY CLASSIFICATION, Code Basis: IMC 2018, ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8, SYSTEM OCCUPANT DIVERSITY (D) = 100%, OUTSIDE AIR SUMMARY

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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT Harrison Elementary School 600 Harrison St Twin Falls, ID 83301

Sheet: MECHANICAL SCHEDULES

Revisions: [Symbol]

Professional Engineer License 20608 State of Idaho T. J. JOHNSON

Project No: 23028 Drawn By: AK Checked By: MG Date: 11/15/2025

Sheet No: M0.03

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KEYNOTES	
M5	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.
M12	DEMOLISH THERMOSTAT CONNECTED TO EXISTING UNIT BEING DEMOLISHED.
M21	DEMOLISH AND CAP GAS PIPING TO STEAM BOILERS, GAS TO WATER HEATERS TO REMAIN.



HVAC PIPING DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

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

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Sheet:
HVAC PIPING DEMOLITION PLAN

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Project No: 23028
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Sheet No:
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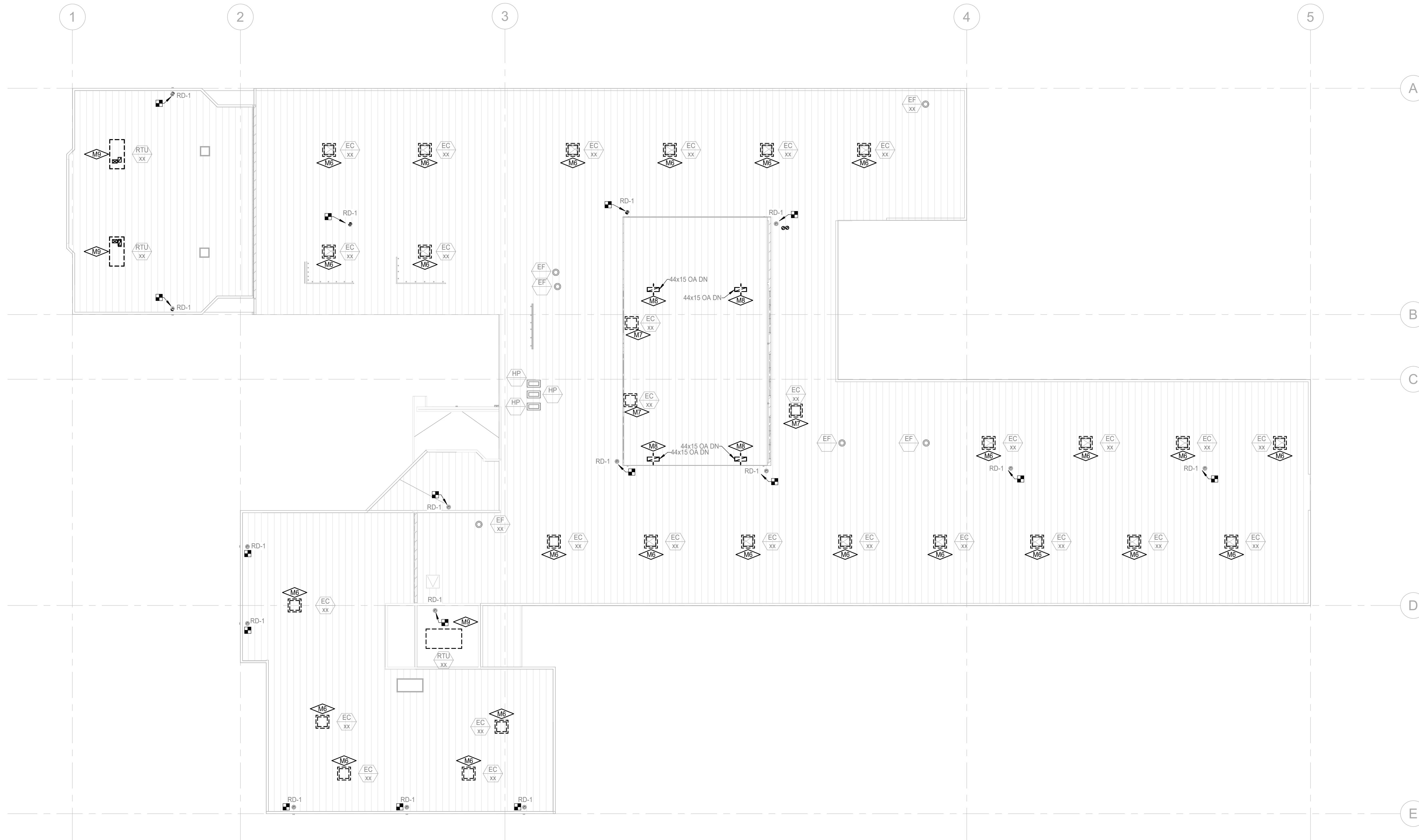
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KEYNOTES

M6	DEMOLISH EXISTING EVAPORATIVE COOLER, ROOF CURB, DUCTWORK, DOMESTIC WATER SERVICE, CONTROLS, AND APPURTENANCES COMPLETE. ROOF OPENING TO REMAIN FOR REUSE.
M7	DEMOLISH EXISTING EVAPORATIVE COOLER, ROOF CURB, DUCTWORK, DOMESTIC WATER SERVICE, CONTROLS, AND APPURTENANCES COMPLETE. SEE ARCHITECTURAL FOR ROOFING REPAIR.
M8	DEMOLISH DUCTWORK, CURB, AND APPURTENANCES. SEE ARCHITECTURAL FOR ROOFING REPAIR.
M9	DEMOLISH ROOFTOP UNIT, DUCTWORK, SUPPORTS, PIPING, CONTROLS, AND APPURTENANCES COMPLETE.



ROOF HVAC DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

1"
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ROOF MECHANICAL
DEMOLITION PLAN

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Project No: 23028
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Date: 1/15/2025

Sheet No:
MD1.02

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KEYNOTES

M1	DEMOLISH EXISTING UNIT VENTILATOR. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.)
M2	DEMOLISH 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.)
M4	DEMOLISH AND CAP BOILER FLUE
M10	DEMOLISH ALL DUCTWORK, PIPING AND AIR DEVICES SERVED BY EXISTING ROOFTOP UNIT.
M11	DEMOLISH CABINET UNIT HEATER IN CEILING AND ALL ACCESSIBLE ASSOCIATED PIPING.
M14	DEMOLISH ALL DUCTWORK AND AIR DEVICES SERVED BY EXISTING ROOFTOP UNIT.

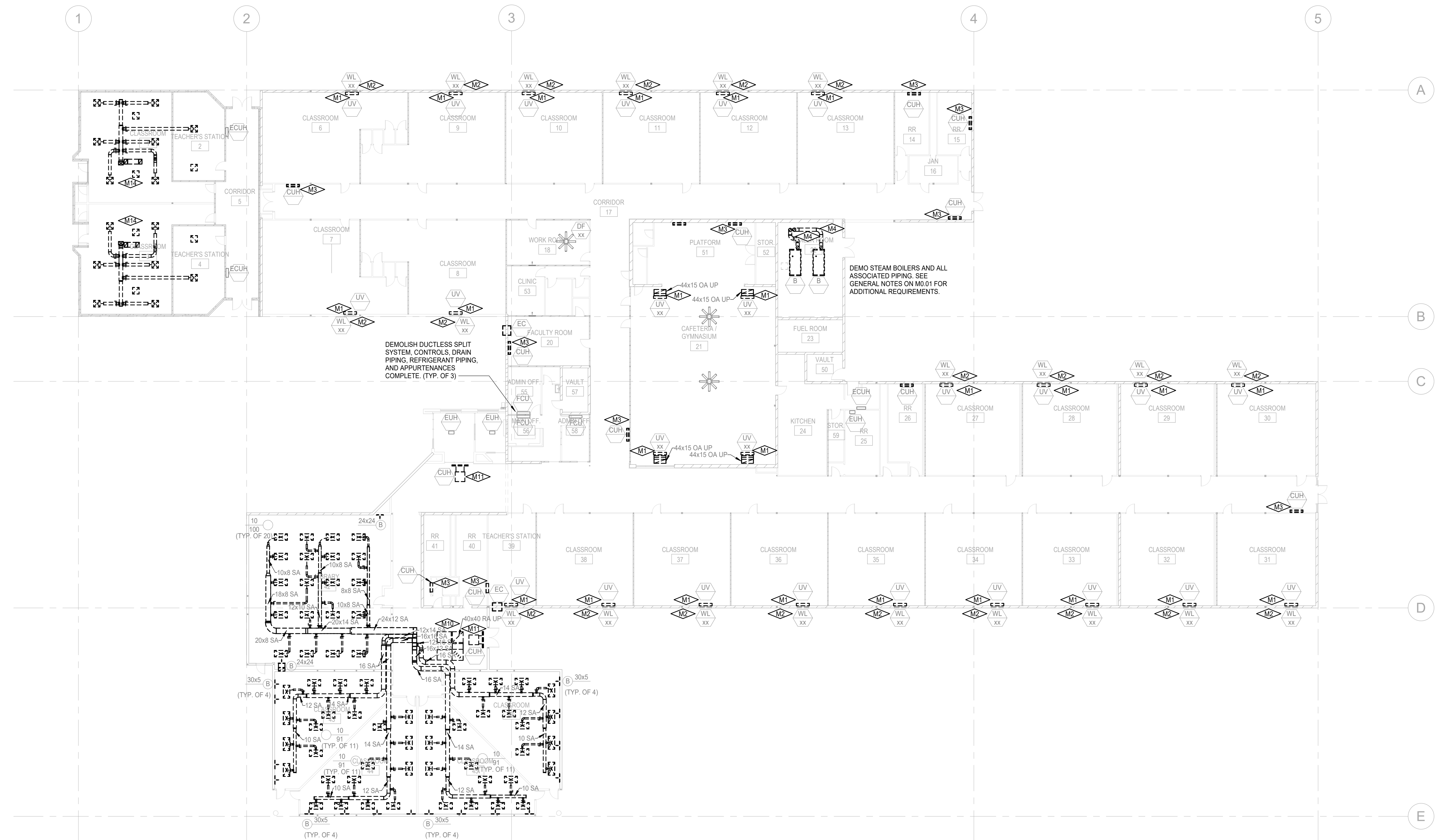
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HVAC DEMOLITION PLAN
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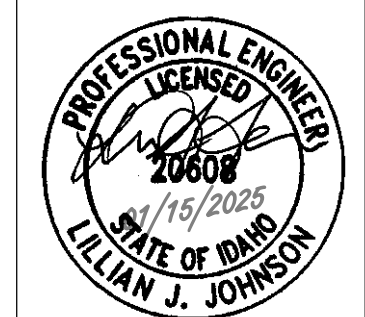
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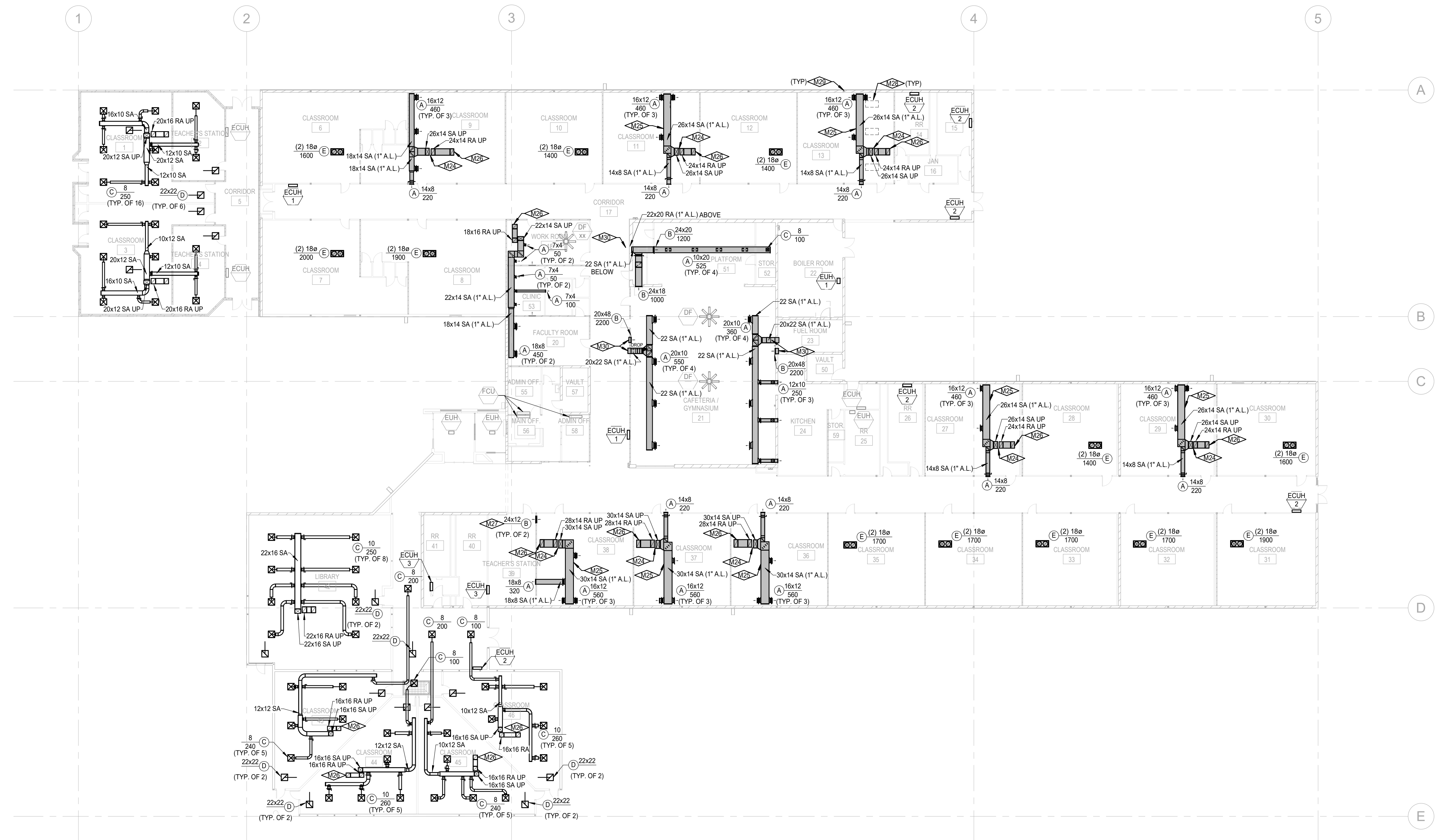
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KEYNOTES

M24	EXTEND NEW SUPPLY AND RETURN DUCTS UP TO NEW RTU ABOVE. BOTH DUCTS SHALL HAVE 1" ACoustICAL LINING TO UNIT CONNECTION. TRANSITION DUCTS TO FULL SIZE OF UNIT CONNECTIONS.
M25	LOCATE NORTHSOUTH RUN OF DUCT BETWEEN EXISTING LIGHTS AND EXPOSED BEAM IN THE CENTER OF THE ROOM. VERIFY LOCATION IN THE FIELD WITH ACTUAL CONDITIONS. KEEP DUCTWORK AS HIGH AS POSSIBLE.
M26	RETURN OPENING IN THE TOP OF THE DUCT. OPENING TO BE 6" BELOW CEILING STRUCTURE. SEE DETAIL.
M27	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.
M28	APPROXIMATE LOCATION OF EXISTING LIGHTS. VERIFY IN THE FIELD.
M29	EXISTING CEILING BEAM LOCATION.
M30	SEE M1.02 FOR CONTINUATION.



HVAC PLAN
SCALE: 1/16" = 1'-0"

1"
IF LINE DOES NOT MEASURE 1 INCH,
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HVAC PLAN

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Project No: 23028
Drawn By: AK
Checked By: MG
Date: 1/15/2025

Sheet No:
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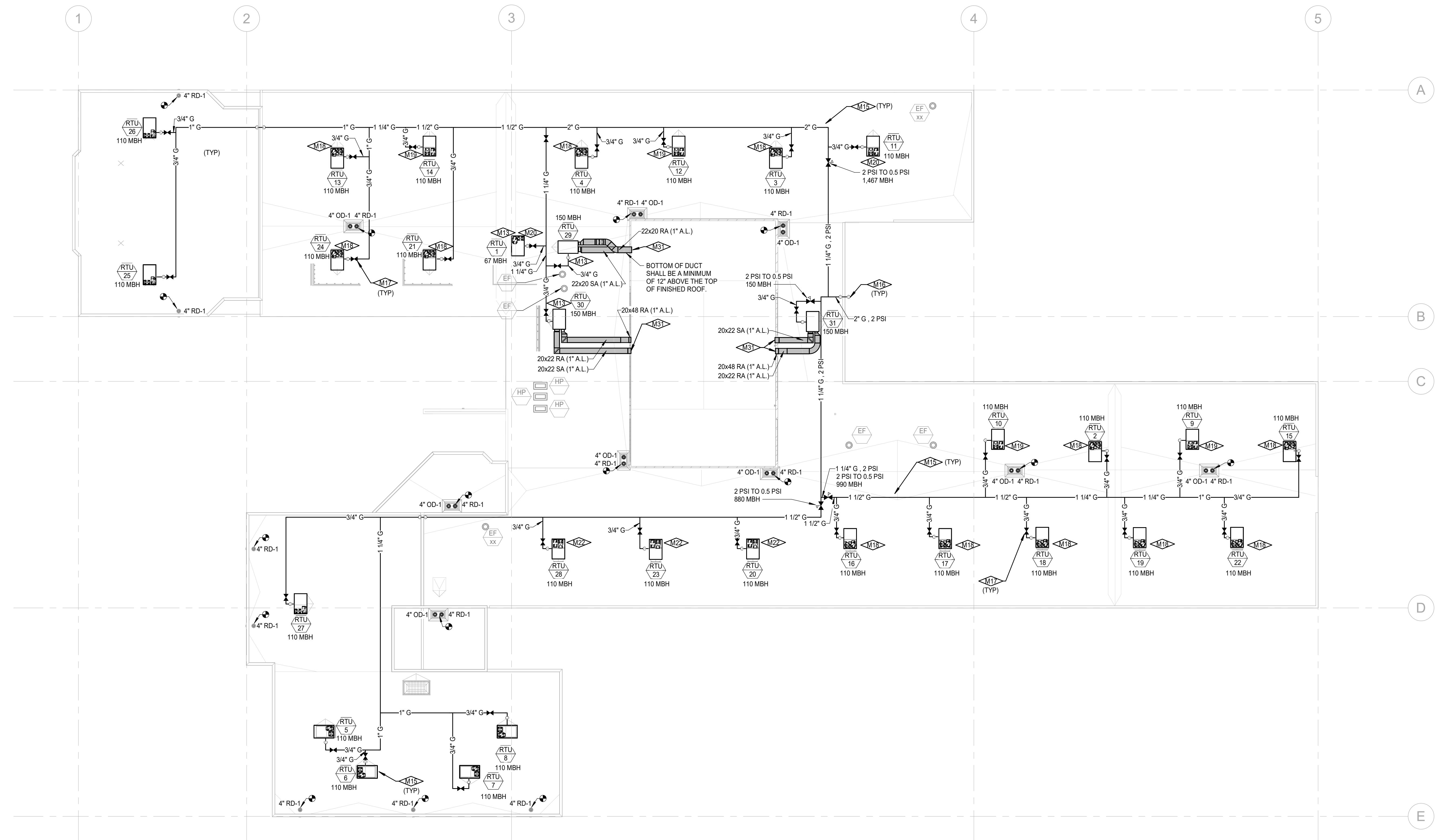
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KEYNOTES

M13	RTU VENTILATION INLET SHALL BE A MINIMUM OF 10' FROM ALL EXHAUST FAN DISCHARGES (TYP.)
M15	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.
M16	DROP 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.
M17	PROVIDE GAS SHUT-OFF AND DIRT LEG FOR EACH UNIT PER CODE.
M18	TRANSITION FROM RTU SUPPLY AIR AND RETURN AIR OPENINGS TO 18" ROUND DUCT WITH 1" ACOUSTICAL LINING TO CONCENTRIC DIFFUSER IN CLASSROOM BELOW.
M19	TRANSITION FROM RTU OPENING TO LINED 26X14 SUPPLY AIR DUCT AND LINED 24X14 RETURN AIR DUCT DOWN TO CLASSROOM BELOW.
M20	TRANSITION FROM RTU OPENING TO LINED 22X14 SUPPLY AIR DUCT AND LINED 18X16 RETURN AIR DUCT DOWN TO WORKROOM BELOW.
M22	TRANSITION FROM RTU OPENINGS TO LINED 30X14 SUPPLY AIR DUCT AND LINED 28X14 RETURN AIR DUCT DOWN TO CLASSROOM BELOW.
M31	SEE M1.01 FOR CONTINUATION.



ROOF HVAC PLAN
SCALE: 1/16" = 1'-0"

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

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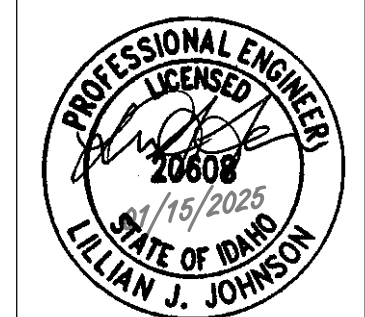
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M1.02

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KEYNOTES

M32 NEW 2" GAS LINE UP TO ROOF TO SERVE NEW RTUS.



HVAC PIPING PLAN
SCALE: 1/16" = 1'-0"

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

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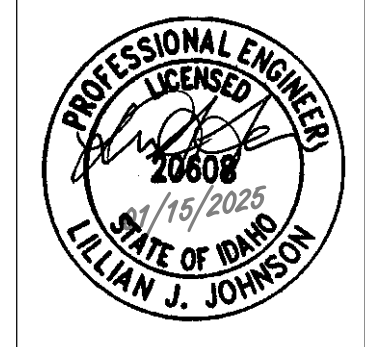
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HVAC PIPING PLAN

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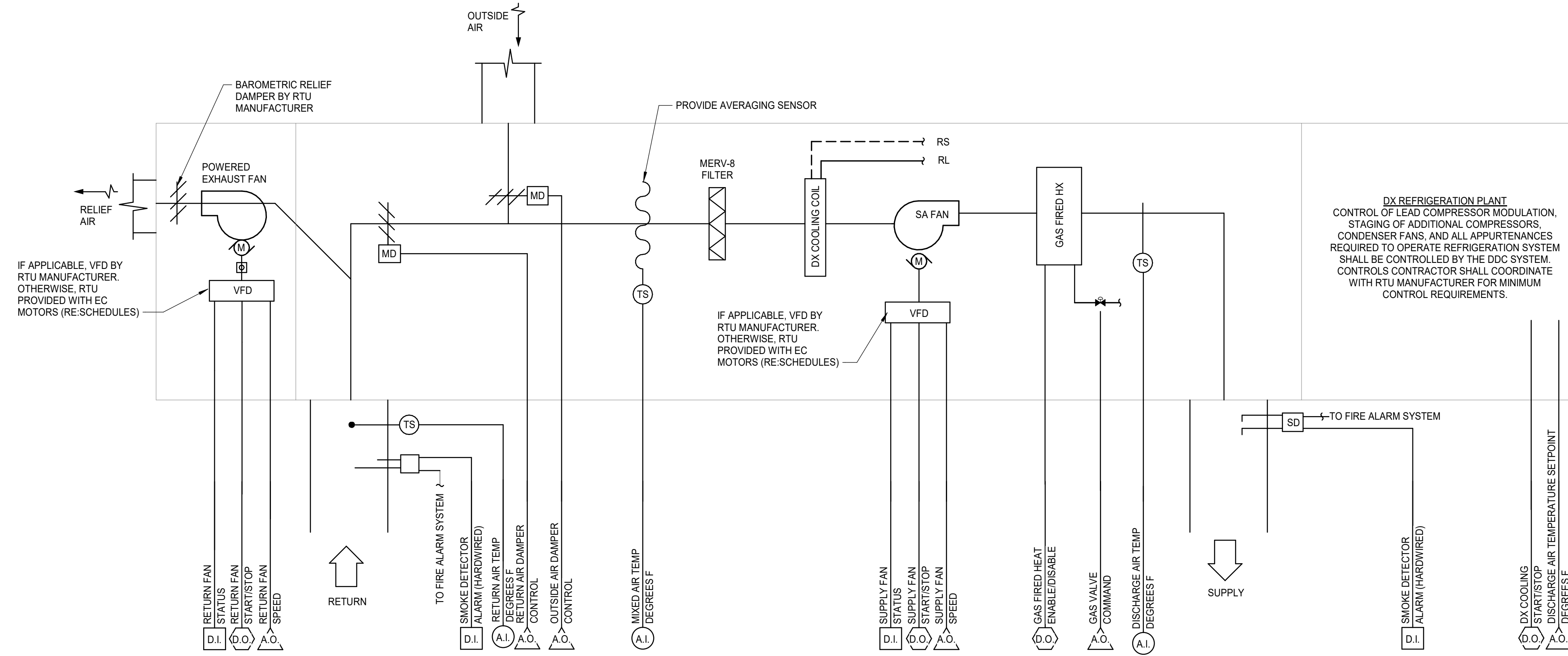


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Sheet No: **M2.11**

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ROOFTOP UNIT - VAV, RELIEF FANS, GAS HEAT, SINGLE ZONE

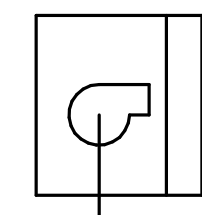
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SEQUENCE OF OPERATION:

CABINET UNIT HEATERS AND UNIT HEATERS:

- HEATER SHALL OPERATE VIA STANDALONE CONTROLS TO ACHIEVE THE FOLLOWING FUNCTION:
- OPERATION
 - A WALL MOUNTED ROOM THERMOSTAT OR INTEGRATED THERMOSTAT WILL STAGE THE ELECTRIC HEAT AND CYCLE THE FAN MOTOR TO MAINTAIN ROOM THERMOSTAT TEMPERATURE SETTING.
 - VESTIBULE SPACE SETPOINT SHALL NOT EXCEED 60F.



CABINET UNIT HEATER & UNIT HEATER - ELECTRIC

SCALE: NONE

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SEQUENCE OF OPERATION (CONT.):

- 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 95 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
- Fault Detection and Diagnostics
 - 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.
 - 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

DIAGRAM NOTES:

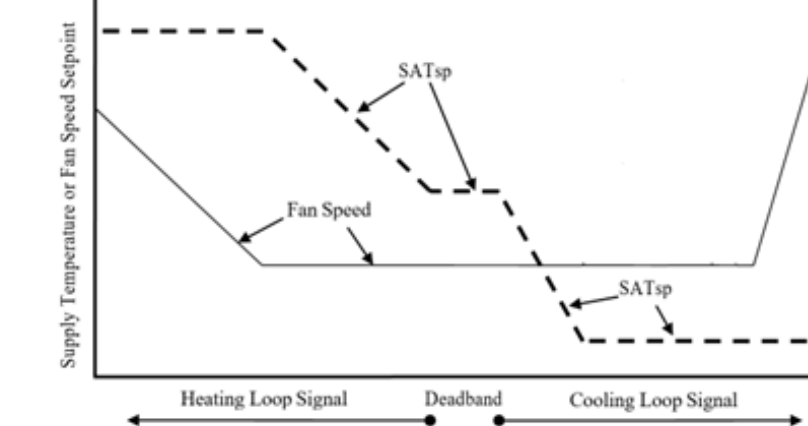
- ROOFTOP UNIT SHALL BE PROVIDED WITH FACTORY TERMINAL STRIP (BASIS OF DESIGN; MICROMETL DRY BULB ECONOMIZER) FOR FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR.
- CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL DDC HARDWARE TO MEET THE REQUIREMENTS OF THE SEQUENCES OF OPERATION PROVIDED.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

SEQUENCE OF OPERATION:

SINGLE-ZONE VARIABLE AIR VOLUME ROOF TOP UNITS:

- 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.
 - Fan speed shall be reset linearly based on space temperature.
 - When space is satisfied operate at Min-speed. As the heating or cooling loop 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)

- Minimum and maximum supply air temperature setpoints shall be as follows:
 - The Deadband values of SATap 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.



- Fan Speed Control (As applicable):
 - For a Heating Loop signal of 100% - 0%, fan speed is reset from MaxHeatSpeed to MinSpeed.
 - Deadband: fan speed setpoint is MinSpeed.
 - For a Cooling Loop signal of 0% - 100%, fan speed is reset from MinSpeed to MedSpeed.
- Supply Air Temperature Setpoint:
 - For a Heating Loop signal of 100% - 50%, SATap is 100 deg F (adj).
 - For a Heating Loop signal of 50% - 0%, SATap is reset from 100 deg F (adj) to the Deadband value (-70 deg F as described above).
 - In Deadband, SATap is the Deadband value.
 - For a Cooling Loop signal of 0% - 75%, SATap is reset from the Deadband value to 55 deg F.
 - For a Cooling Loop signal above 75%, SATap is unchanged at 55deg F, the supply fan speed continues to increase to additional cooling capacity.

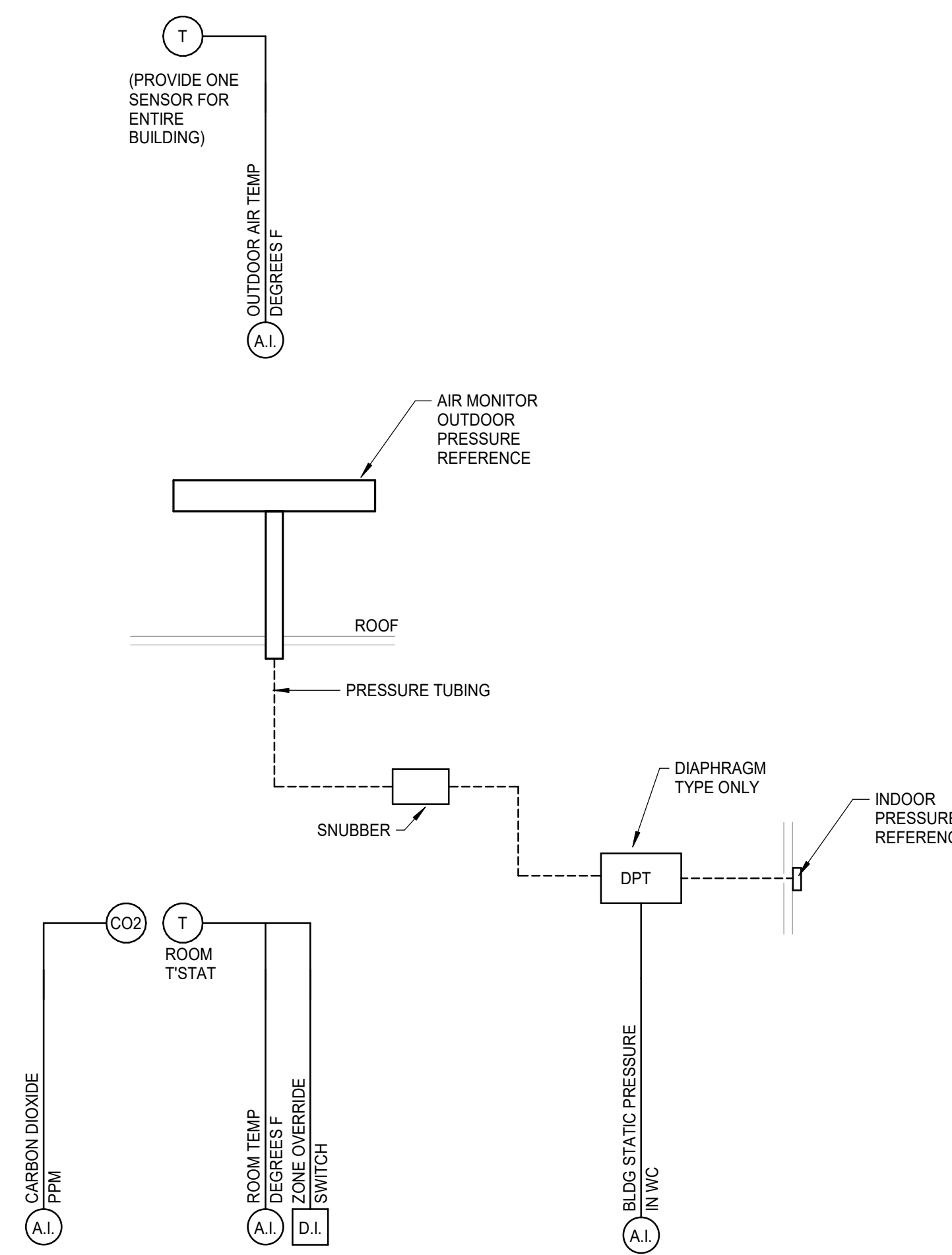
- Outdoor Air Damper Control
 - Modulate the air damper shall be modulated to the greater of the economizer command or the ventilation command.
 - An economizer control loop shall modulate the outdoor air damper open to meet the supply air temperature setpoint anytime the unit is in cooling mode and 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 **monitoring the mixed air temperature** and modulating the outdoor air damper to achieve the required volume of outdoor air (based on the calculated mixed air temperature), and the Outdoor Air Volume is calculated as follows:
 - $\% \text{ OUTSIDE AIR} = (\text{TEMP}_{\text{max}} - \text{TEMP}_{\text{RETURN}}) / (\text{TEMP}_{\text{OUTDOOR AIR}} - \text{TEMP}_{\text{RETURN}})$
 - $\text{OUTDOOR AIR VOLUME} = \% \text{OA} \cdot \text{UNIT CAPACITY} \cdot (\text{SUPPLY FAN SPEED}) / 100$

- 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	SP
SP _{min}	ABSOLUTE MIN OA
SP _{max}	VENTILATION MAX OA
T _s	10 MINUTES
T _r	2 MINUTES
I	0
R	ZONE VENTILATION REQUESTS
SP _{min}	+100 CFM
SP _{res}	-200 CFM
SP _{res-max}	-300 CFM

- 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.

- 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. This setpoint shall be determined during balancing (utilize +0.04 lwc as the base condition). This setpoint should be determined in 100% economizer mode and should result in a slightly positive building in that mode.



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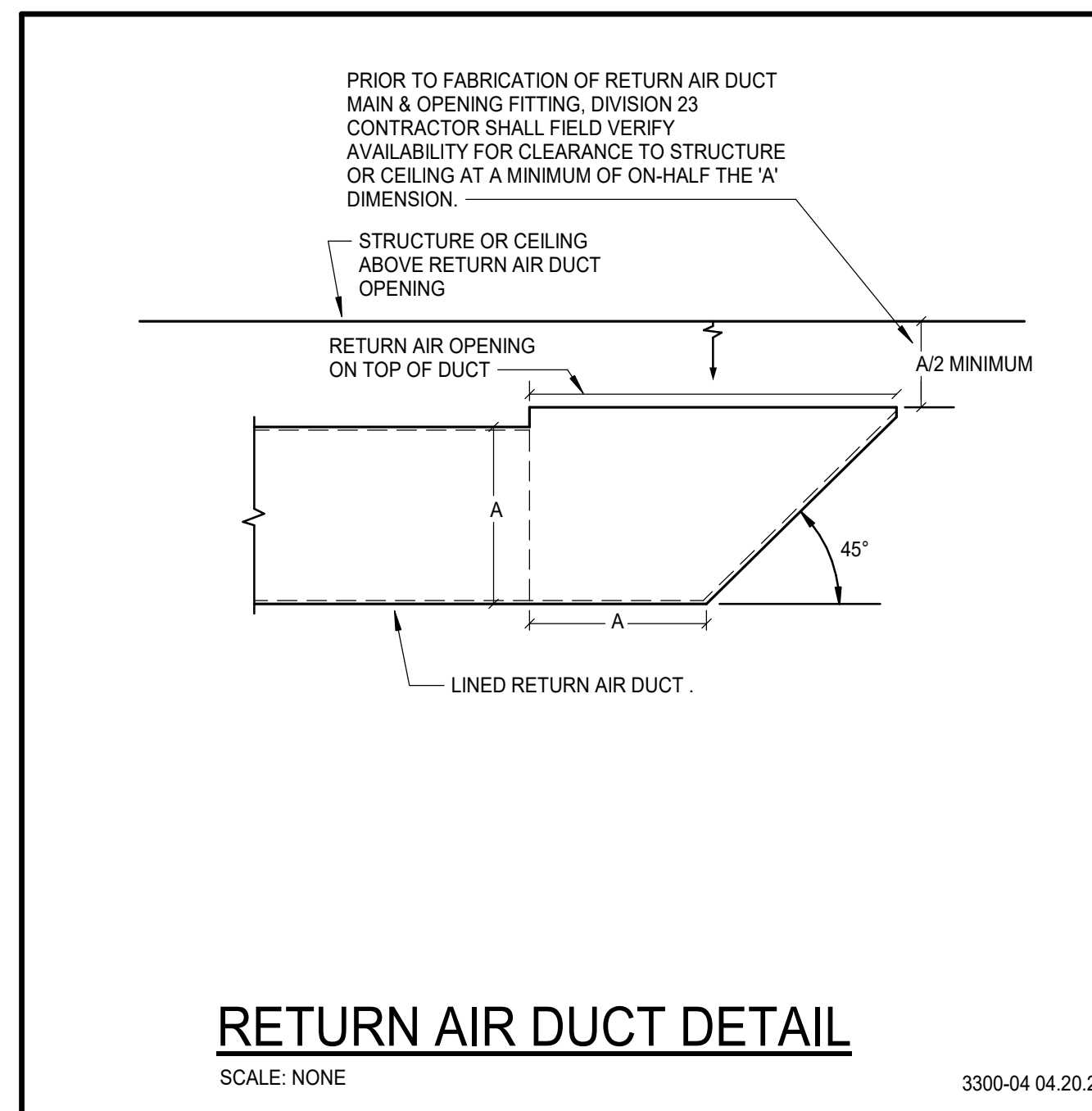
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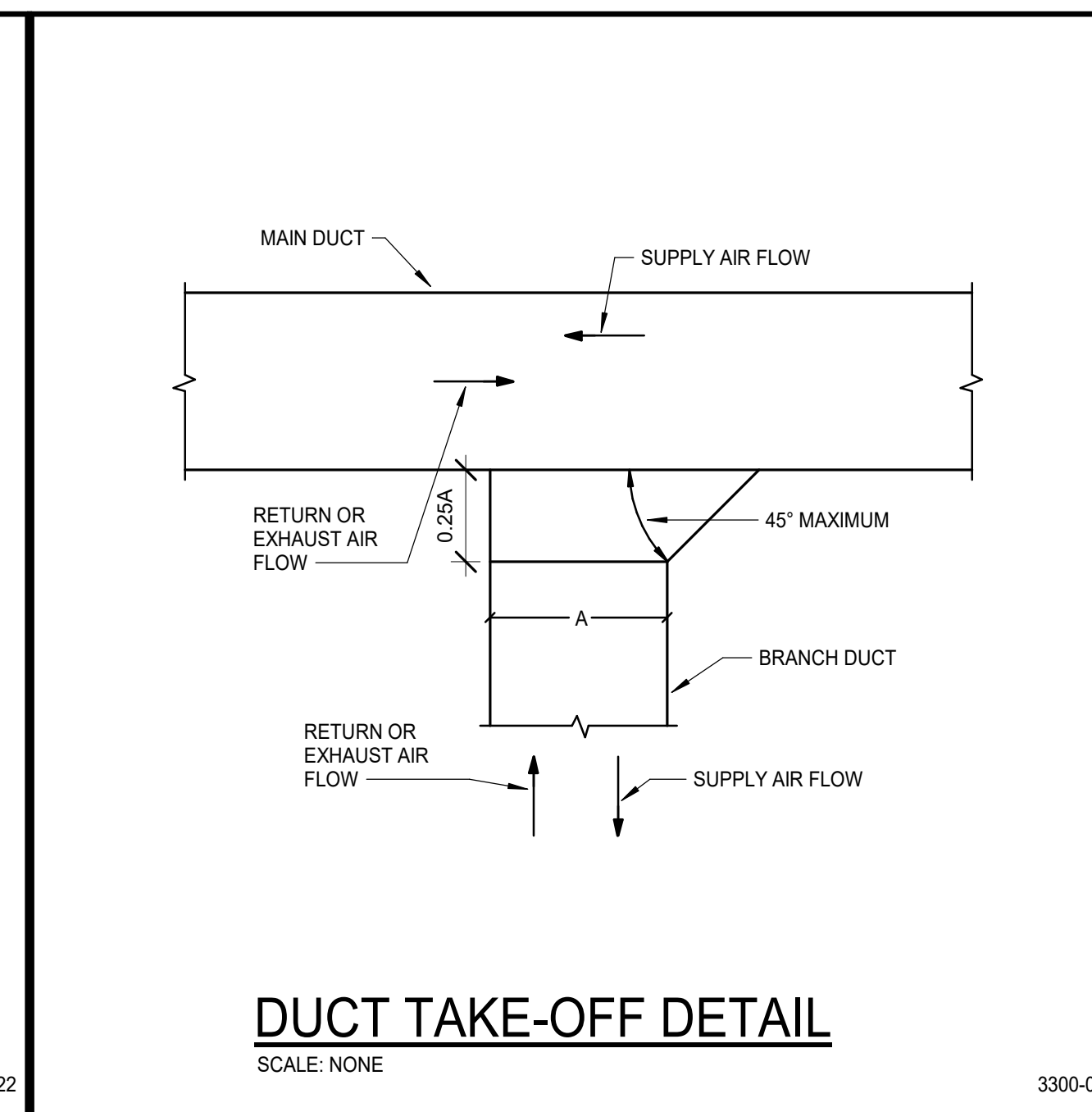
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RETURN AIR DUCT DETAIL

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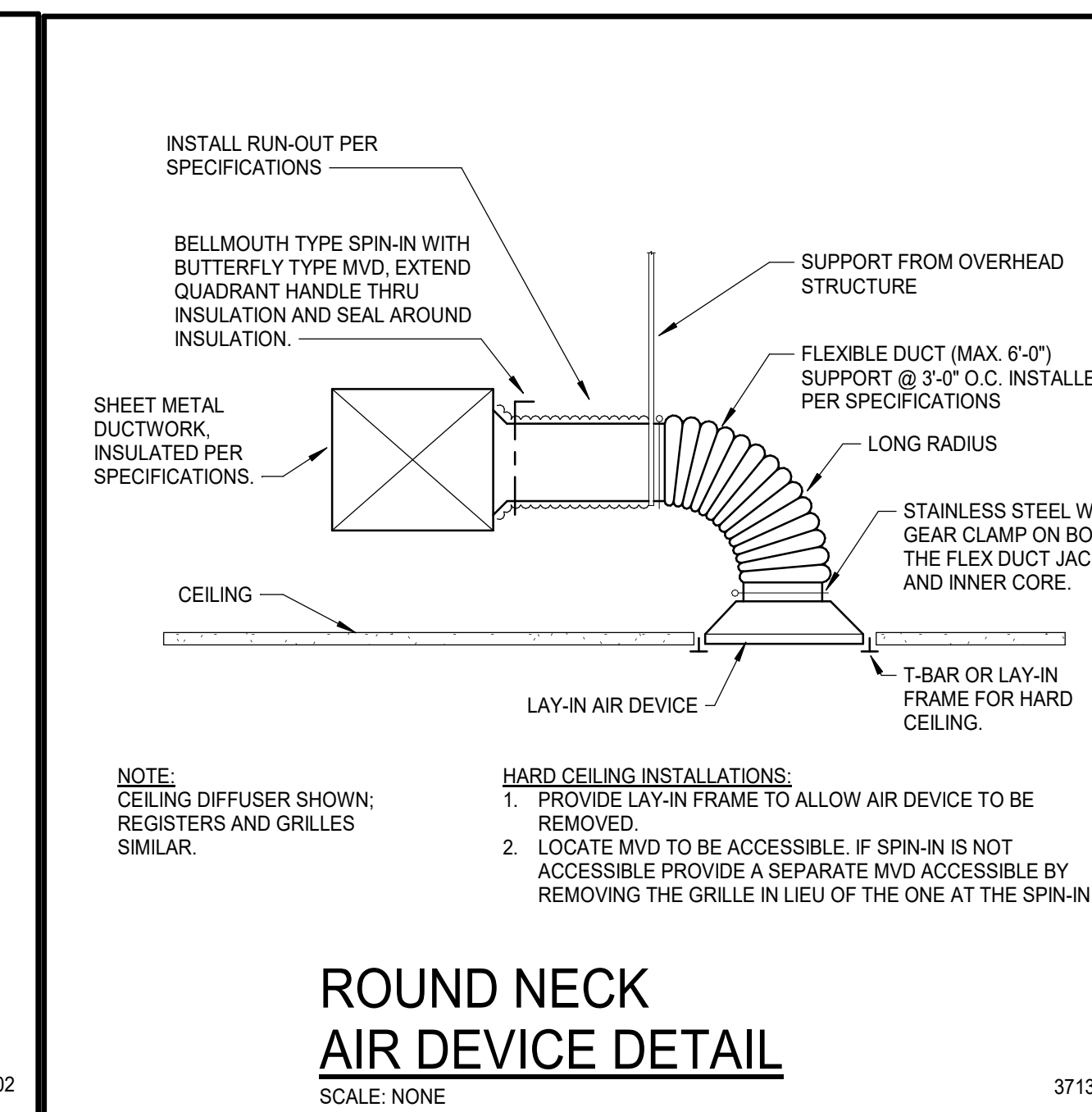
3300-04 04.20.22



DUCT TAKE-OFF DETAIL

SCALE: NONE

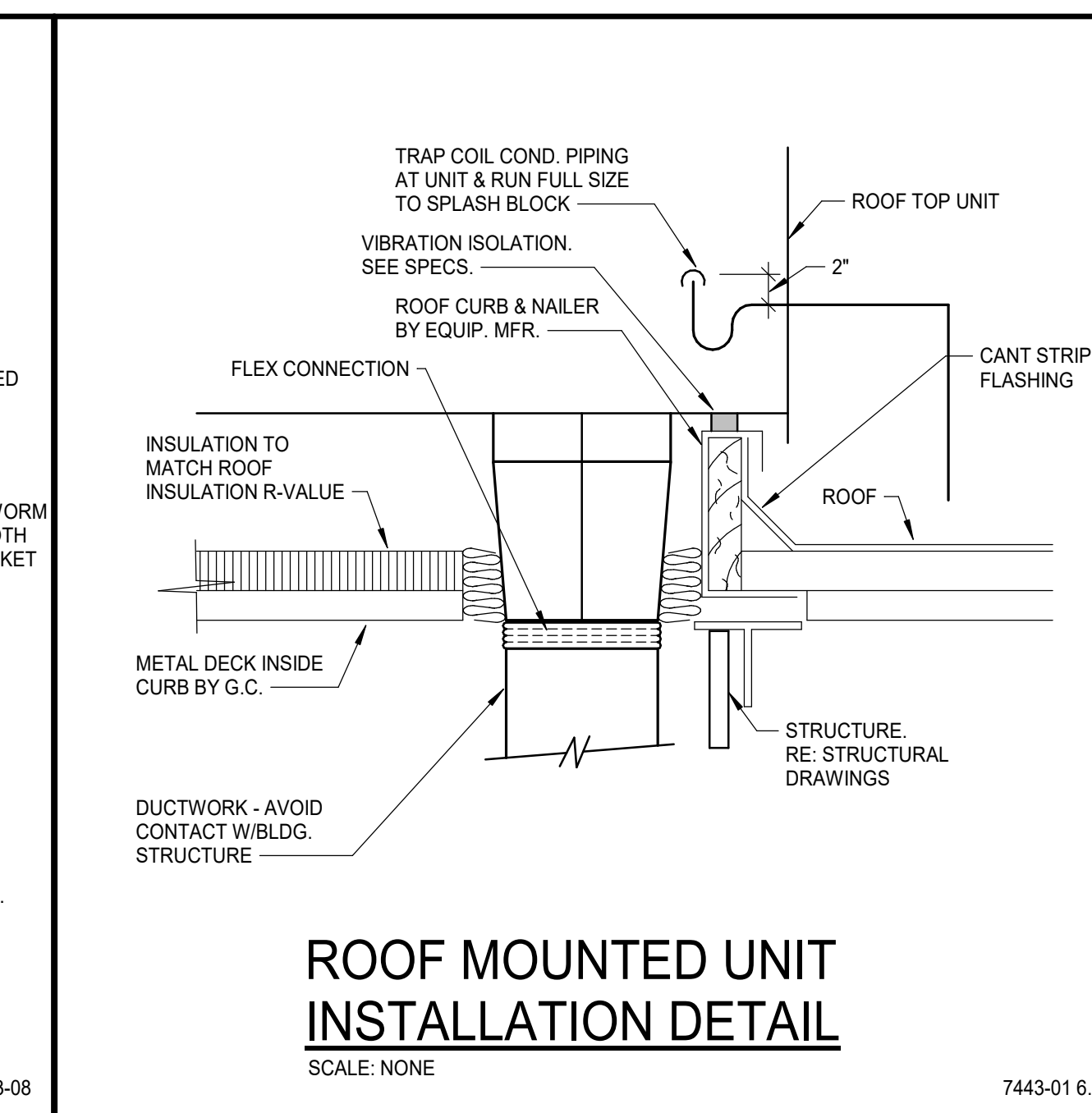
3300-02



ROUND NECK AIR DEVICE DETAIL

SCALE: NONE

3713-08

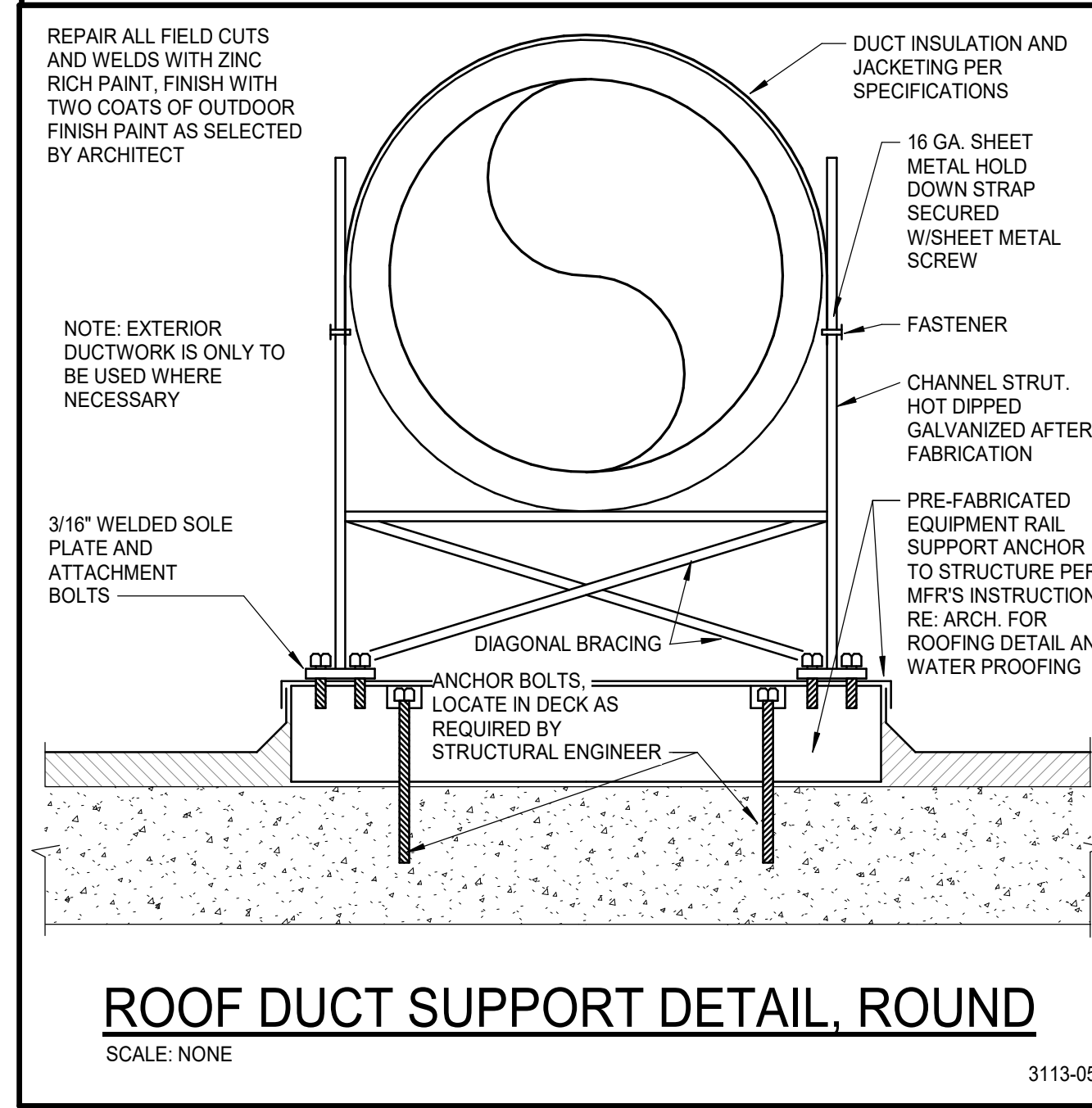


ROOF MOUNTED UNIT INSTALLATION DETAIL

SCALE: NONE

7443-01 6.11.23

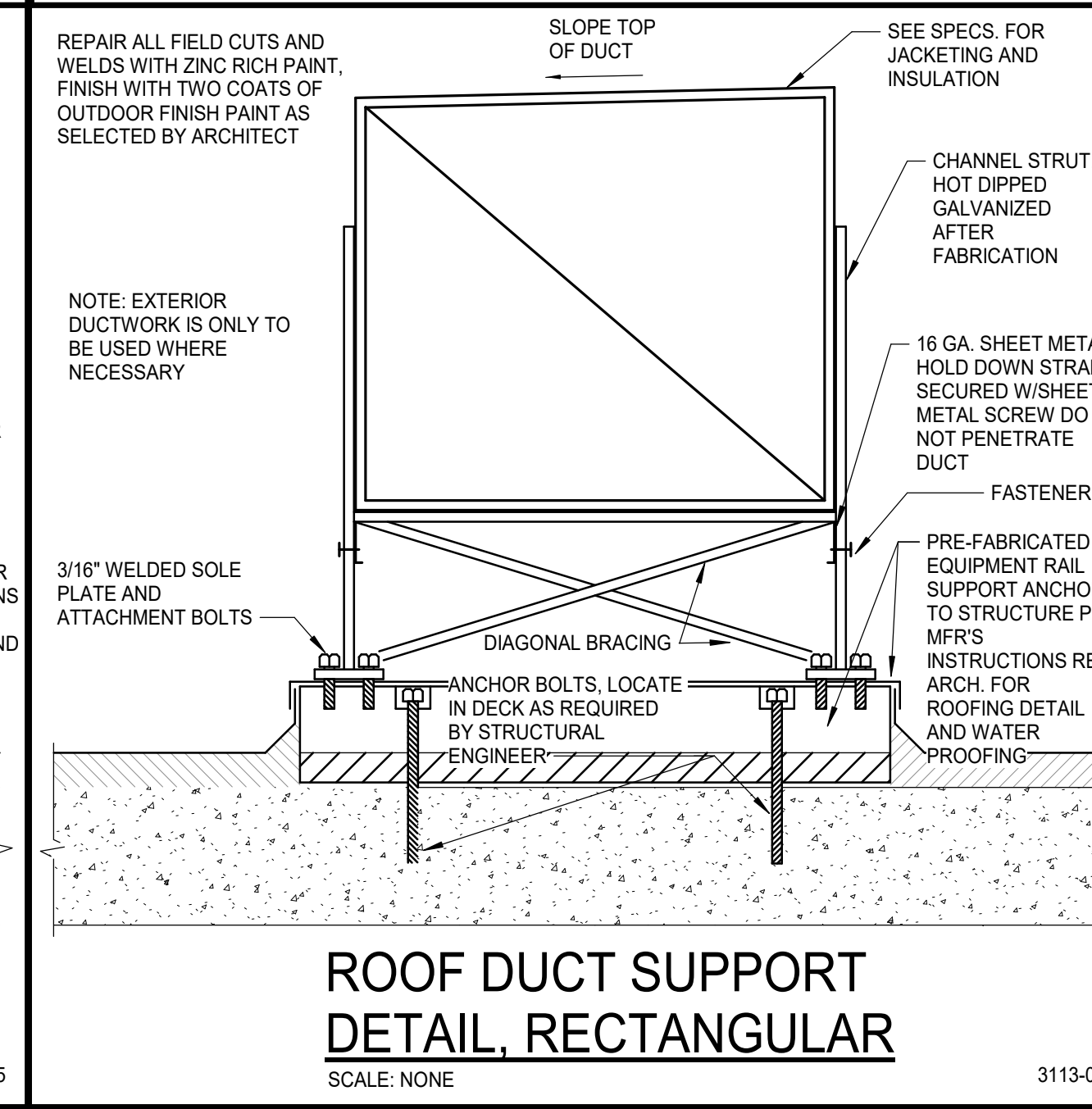
B



ROOF DUCT SUPPORT DETAIL, ROUND

SCALE: NONE

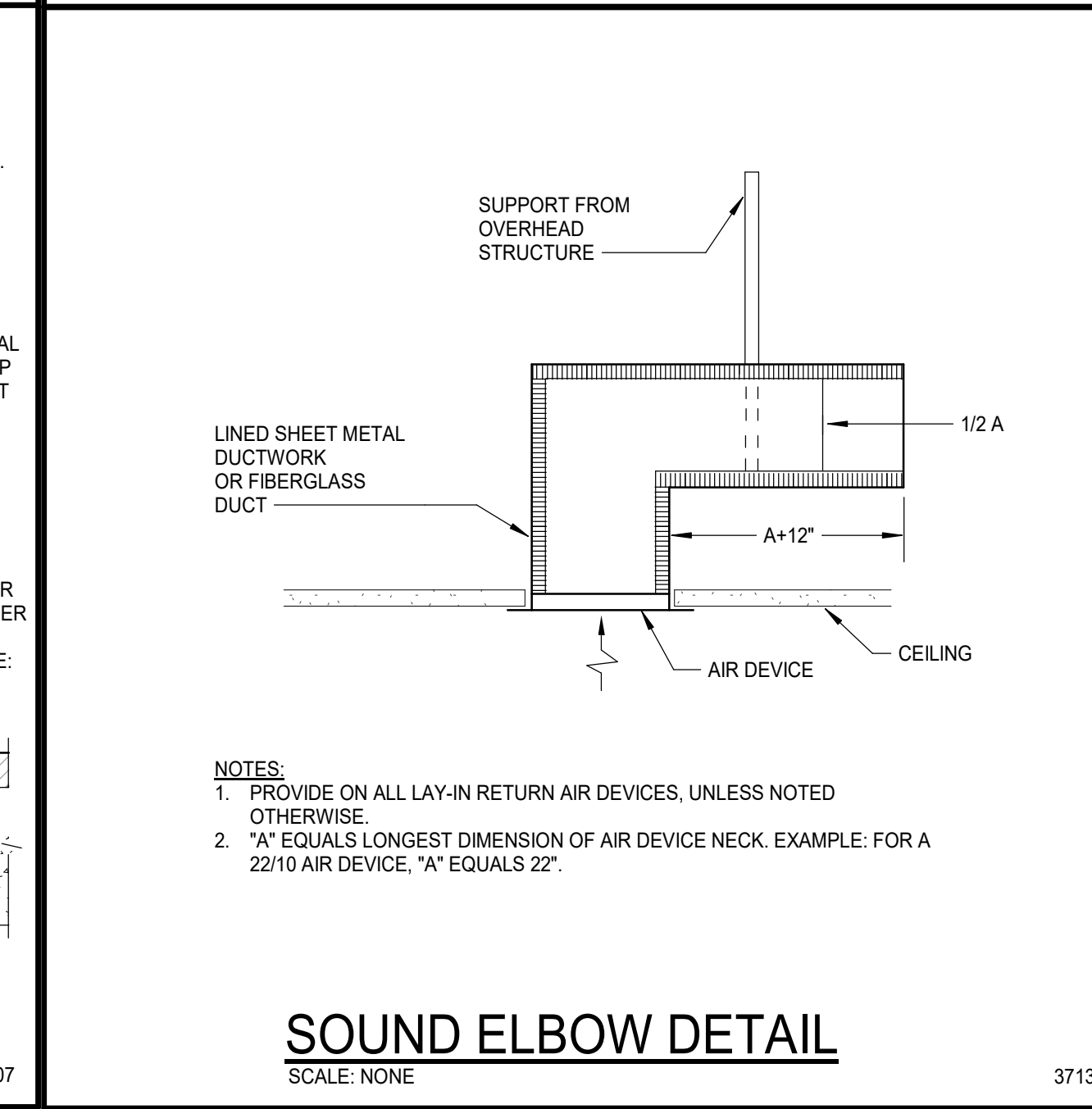
3113-05



ROOF DUCT SUPPORT DETAIL, RECTANGULAR

SCALE: NONE

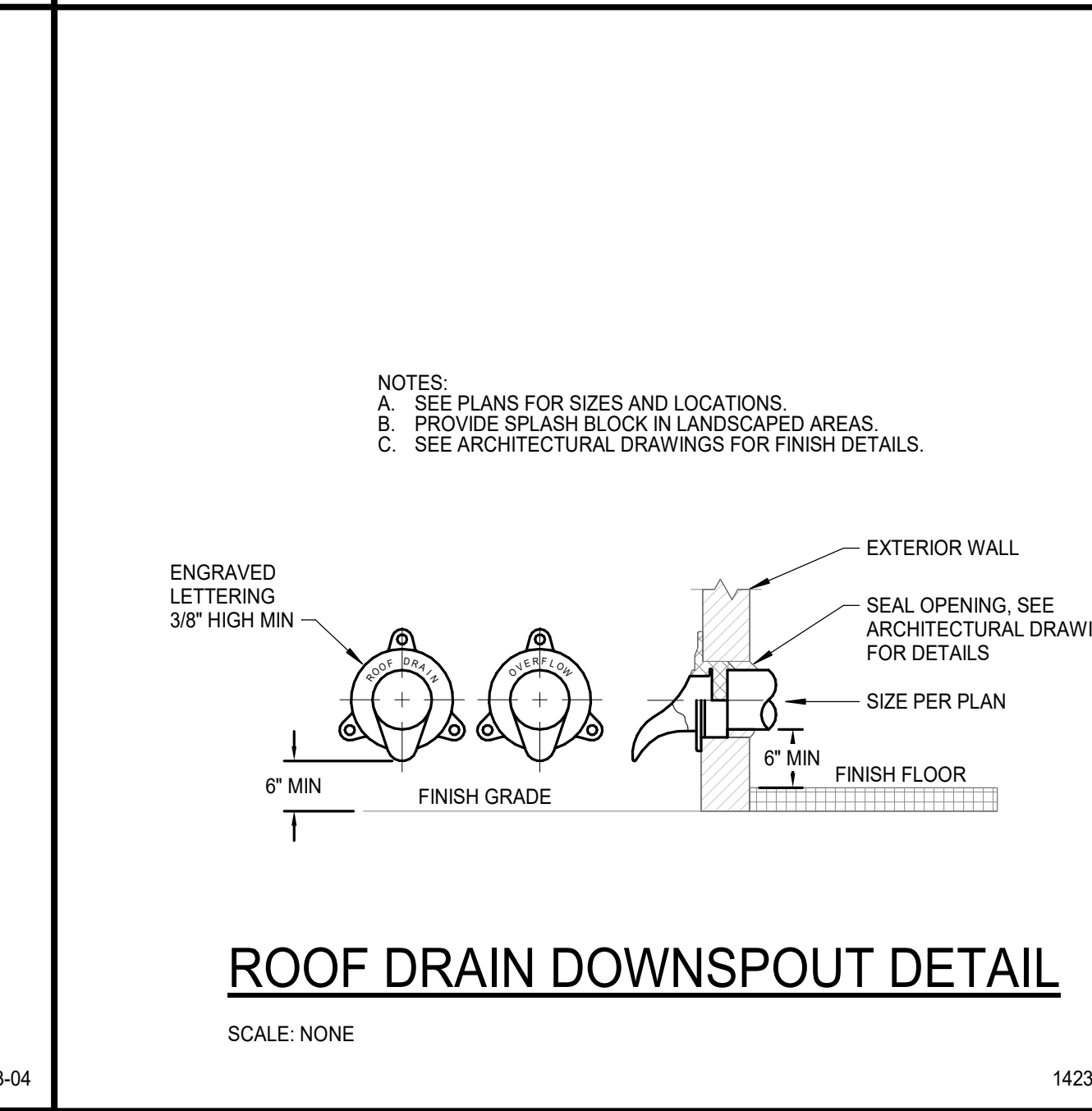
3113-07



SOUND ELBOW DETAIL

SCALE: NONE

3713-04



ROOF DRAIN DOWNSPOUT DETAIL

SCALE: NONE

1423-04

C

D

E

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Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
 800 Harrison St
 Twin Falls, ID 83301

Sheet:
 MECHANICAL DETAILS

100% CD



Revisions: △

Project No: 23028
 Drawn By: AK
 Checked By: MG
 Date: 1/15/2025

Sheet No: **M5.01**

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

Table with 4 columns: ABBR., SYMBOL, DESCRIPTION, and ABBR., SYMBOL, DESCRIPTION. It lists various plumbing symbols and their corresponding descriptions, such as section designations, pipe anchors, equipment unit identification, and various valves and fittings.

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

Table with 4 columns: ABBR., SYMBOL, DESCRIPTION, and ABBR., SYMBOL, DESCRIPTION. It lists plumbing pipe types and fittings, including domestic cold and hot water piping, softened water piping, industrial piping, and various drain and vent pipes.

PLUMBING SPECIALTY SCHEDULE

Table with 6 columns: DESIG., FIXTURE TYPE, LOCATION, MANUFACTURER, MODEL #, and REMARKS. It details the specifications for specialty fixtures like downspout nozzles and roof drains, including their locations and required assemblies.

GENERAL NOTES:

- 1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS...
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK...

PLUMBING NOTES:

- 1. CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
2. THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS...
3. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

DEMOLITION GENERAL NOTES:

- 1. EXISTING ITEMS TO REMAIN ARE DENOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & SOLID SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL WORK REQUIRED PRIOR TO BID...

FIRE PROTECTION NOTES:

- 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
2. 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...
3. THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC. IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC.

FIRE PROTECTION DENSITIES:

- 1. ALL ROOMS TO BE LIGHT HAZARD UNLESS NOTED OTHERWISE ON THE PLANS.
LIGHT HAZARD, 0.1 GPM OVER 1,500 SQ. FT.
OH1 ORDINARY HAZARD GROUP 1, 0.15 GPM OVER 1,500 SQ. FT.
OH2 ORDINARY HAZARD GROUP 2, 0.2 GPM OVER 1,500 SQ. FT.
XH1 EXTRA HAZARD, GROUP 1, 0.3 GPM OVER 2,500 SQ. FT.
XH2 EXTRA HAZARD, GROUP 2, 0.4 GPM OVER 2,500 SQ. FT.

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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT
Harrison Elementary School
800 Harrison St
Twin Falls, ID 83301

Sheet: PLUMBING LEGENDS & NOTES

Professional Engineer Seal for T. J. Johnson, State of Idaho, License No. 20608, dated 1/15/2005.

Project No: 23028
Drawn By: AK
Checked By: MG
Date: 1/15/2025

Sheet No: P0.01

KEYNOTES

P1 INSTALL NEW DOWNSPOUT NOZZLE INTO EXISTING EXTERIOR WALL. DISCHARGE APPROXIMATELY 18" ABOVE FINISHED GRADE. REFER TO ARCHITECTURAL DRAWINGS.

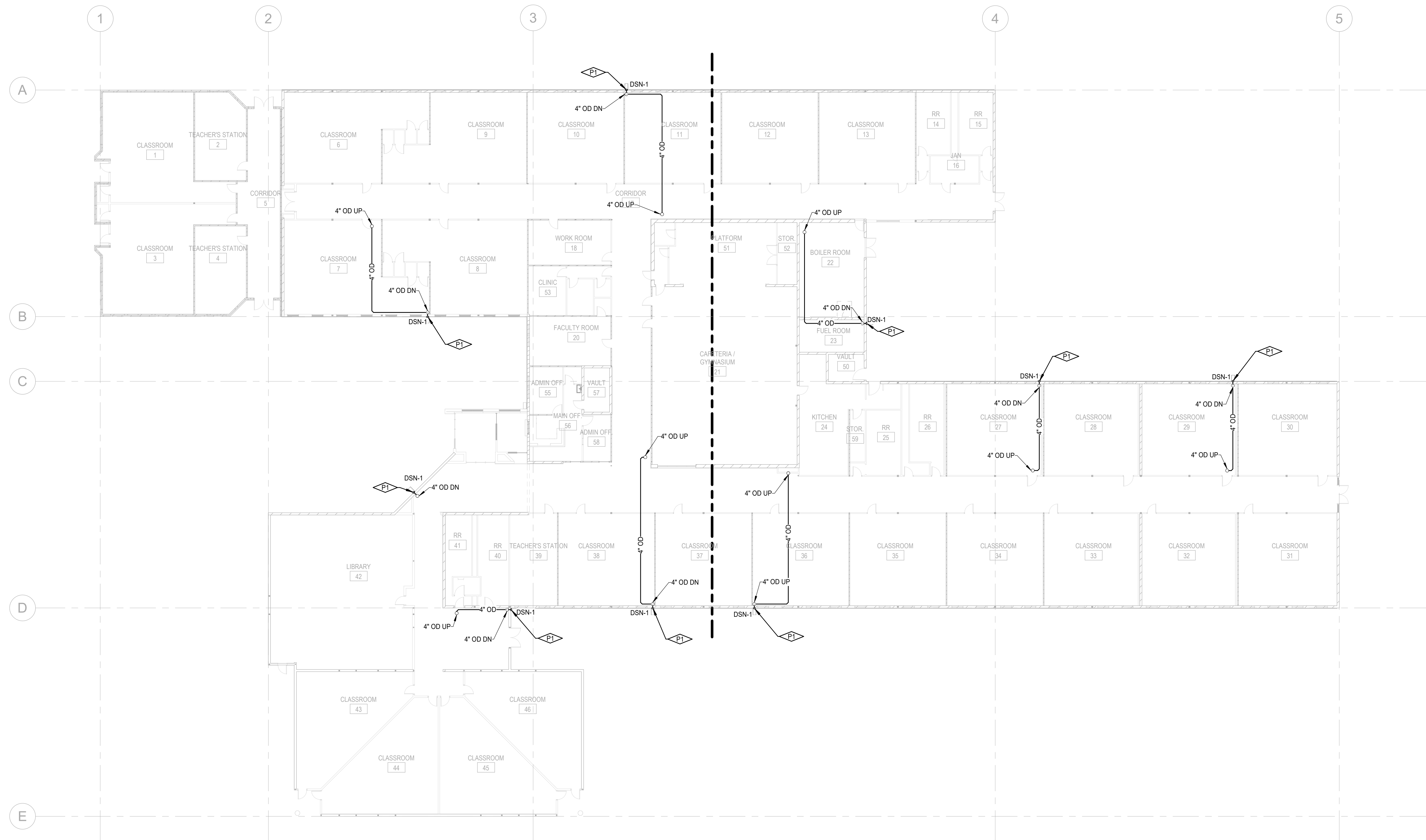
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LEVEL 1 WASTE & VENT PLAN
SCALE: 1/16" = 1'-0"

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

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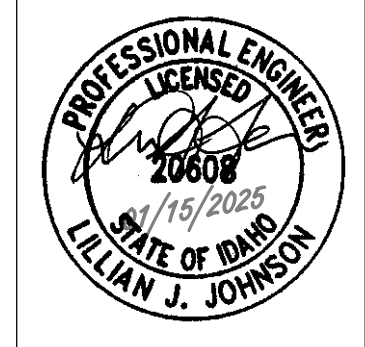
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
WASTE & VENT PLAN

100% CD



Revisions: △

Project No: 23028
Drawn By: AK
Checked By: MG
Date: 1/15/2025

Sheet No: **P1.01**

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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	CV		CHECK VALVE
		LINEAR DIFFUSER CFM			SOLENOID / MOTORIZED VALVE
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH			SOLENOID VALVE
		EQUIPMENT UNIT IDENTIFICATION			HOSE END DRAIN VALVE
		EQUIPMENT UNIT NUMBER	P/T		PRESSURE / TEMPERATURE TAP
		RADIATOR ENCLOSURE LENGTH (OR W-W-WALL-TO-WALL)			STRAINER
		KEY NOTE REFERENCE			STRAINER W/ BLOWDOWN
		KITCHEN/WINNER/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			PUMP
(N)		NEW	C.A.P.		CEILING ACCESS PANEL
(R)		RELOCATED			THRUST BLOCK
(F)		FUTURE			MANUAL AIR VENT
DIA	Ø	DIAMETER	MAV		AUTOMATIC AIR VENT
WAD		WALL ACCESS DOOR	AAV		
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.&Y.		O.S.&Y. GATE VALVE W/ TAMPER SWITCH			EXISTING SPRINKLER HEAD
FS		FLOW SWITCH			RELOCATED SPRINKLER HEAD
P/V		POST INDICATOR VALVE			SIDEWALL SPRINKLER HEAD
FDC		FIRE DEPARTMENT CONNECTION	D24		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.

FIRE PROTECTION DENSITIES:

- ALL ROOMS TO BE LIGHT HAZARD UNLESS NOTED OTHERWISE ON THE PLANS.
 - LIGHT HAZARD, 0.1 GPM OVER 1,500 SQ.FT
 - OH1 ORDINARY HAZARD GROUP 1, 0.15 GPM OVER 1,500 SQ.FT
 - OH2 ORDINARY HAZARD GROUP 2, 0.2 GPM OVER 1,500 SQ.FT
 - XH1 EXTRA HAZARD, GROUP 1, 0.3 GPM OVER 2,500 SQ.FT
 - XH2 EXTRA HAZARD, GROUP 2, 0.4 GPM OVER 2,500 SQ.FT

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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT
Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
FIRE PROTECTION LEGENDS & NOTES

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Revisions: △

Project No: 23028
Drawn By: AK
Checked By: MG
Date: 1/15/2025

Sheet No:
F-001

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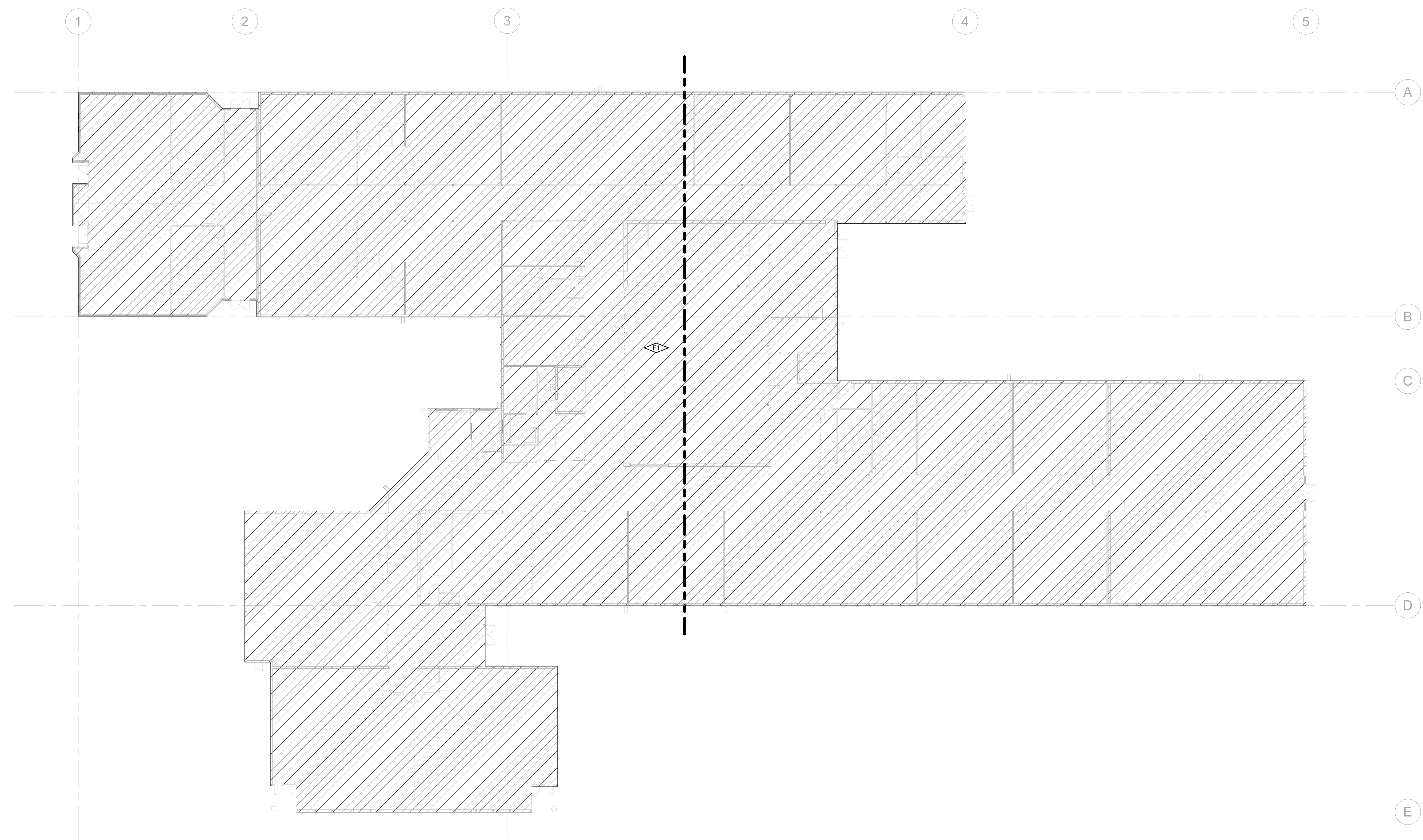
C

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E

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 REMOVED.
----	--



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Project:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

Harrison Elementary School
 600 Harrison St
 Twin Falls, ID 83301

Sheet:
 FIRE PROTECTION PLAN
 SERIES

100% CD

Revisions: △

↑
LEVEL 1 FIRE PROTECTION PLAN
 SCALE: 1/16" = 1'-0"

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

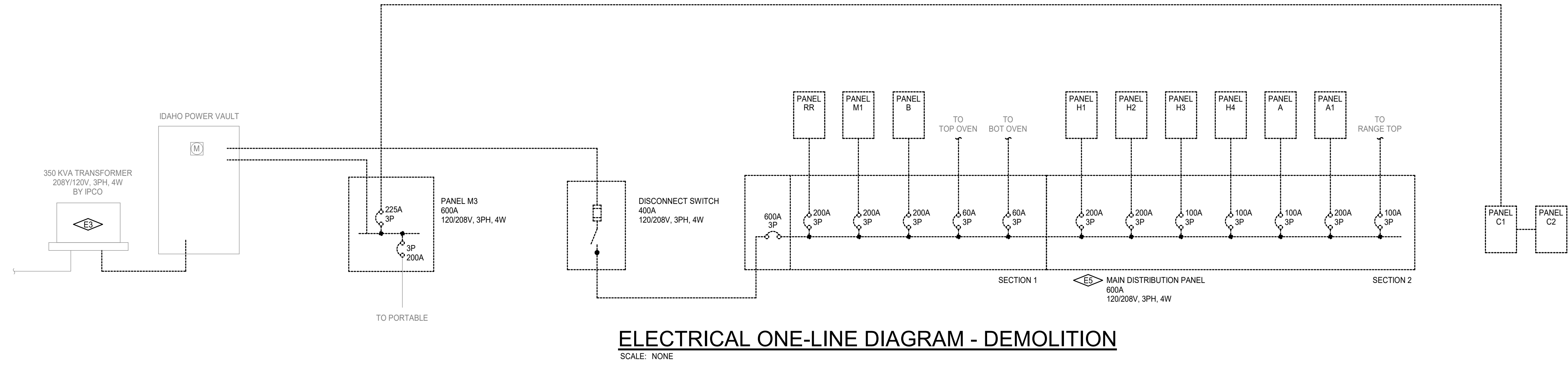
Project No: 23028
 Drawn By: AK
 Checked By: MG
 Date: 1/15/2025

Sheet No:
F-110

KEYNOTES

E3	EXISTING UTILITY TRANSFORMER TO BE REPLACED BY UTILITY. COORDINATE WITH UTILITY FOR ALL WORK REQUIRED.
E5	SERVICE ENTRANCE SWITCHBOARD AND DISTRIBUTION TO BE REMOVED AND REPLACED. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.
E6	PROVIDE NEW SWITCHBOARD. BACKFEED ALL EXISTING TO REMAIN EQUIPMENT FROM NEW SWITCHBOARD. COORDINATE INSTALLATION WITH DEMOLITION TO MINIMIZE FACILITY DOWNTIME.
E9	PROVIDE BID ALT FOR REPLACING OF ALL EXISTING PANELS WITH NEW.
E16	REMOVE NEUTRAL TO GROUND BOND AT PORTABLE BUILDING.

A



BUILDING LOAD SUMMARY

MAIN SWITCHBOARD RATING	600 A
EXISTING PEAK DEMAND	105 KW
EXISTING PEAK DEMAND (208V 3PH)	282 A
NEC DEMAND FACTOR	x 125%
NEW CORRECTED PEAK DEMAND LOAD	365 A
LOAD REMOVED	100 A
NEW LOAD ADDED	977 A
NEW TOTAL BUILDING LOAD	1262 A
NEW TOTAL BUILDING LOAD	447 KVA

FEEDER SCHEDULE

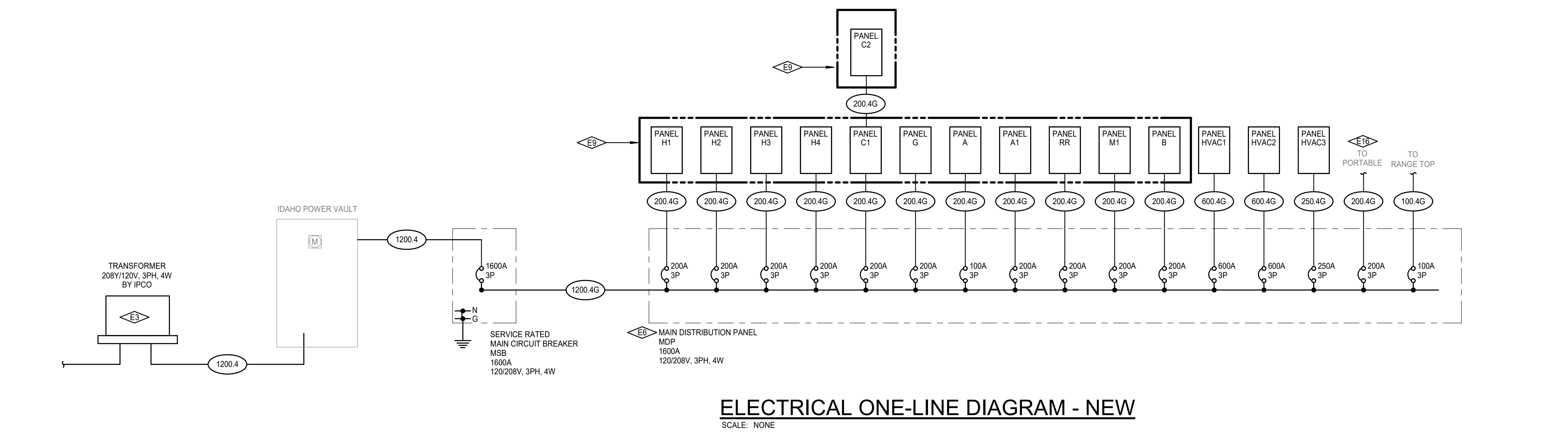
NOTE: CONDUCTORS WITH "AL" DESIGNATION ARE ALUMINUM TYPE XHHW-2 COMPACT 600V.

KEY	CONDUCTORS	C"
100.4G	4 # 1, 1 # 8 G 1 1/2	
200.4G	4 # 30, 1 # 6 G 2 1/2	
250.4G	4 # 250, 1 # 4 G 3	
600.4G	2 [4 # 350, 1 # 1 G 3]	
1200.4	4 [4 # 500 AL 3]	
1200.4G	4 [4 # 500 AL, 1 # 250 AL G 3]	

FAULT CURRENT CALCULATIONS (UTILIZES THE BUSSMAN CALCULATION METHOD AND TABLES)
CONTRACTOR IS RESPONSIBLE FOR ACTUAL FEEDER DISTANCES AND FIELD CONDITIONS IN PROJECT BID AND SCOPE.

Description	Voltage	Ph.	Length (FT)	# of Branches	Conductor Size	Available Fault Current (kA)
At Utility Co						65,000
TO MBL	208	3	100	3	23853	44,458
TO MRP	208	3	10	5	23853	43,127
TO H1	208	3	100	1	12843	11,370
TO H2	208	3	150	1	12843	8,311
TO H3	208	3	20	1	12843	24,594
TO H4	208	3	170	1	12843	7,503
TO CL	208	3	115	1	12843	10,739
TO C2	208	3	5	1	12843	9,912
TO G	208	3	55	1	12843	17,005
TO A	208	3	270	1	12843	5,049
TO A1	208	3	220	1	12843	5,849
TO RR	208	3	200	1	12843	6,548
TO M1	208	3	25	1	12843	25,395
TO B	208	3	65	1	12843	19,100
TO HVAC1	208	3	10	2	19703	39,529
TO HVAC2	208	3	13	2	19703	38,564
TO HVAC3	208	3	16	2	19703	37,644

B



C

Switchboard MDP

Location: _____ Volts: 120/208 Wye
Supply From: _____ Phases: 3
Mounting: Surface Wires: 4
A.I.C. Rating: 65 KAIC
Mains Type: MLO
Bus Rating: 1600 A

Circuit Notes:

Load	Type	A	B	C	Note
H4	Spare	0 VA	0 VA	0 VA	
RR	Spare	0 VA	0 VA	0 VA	
H1	Spare	0 VA	0 VA	0 VA	
H3	Spare	0 VA	0 VA	0 VA	
G	Spare	0 VA	0 VA	0 VA	
C1	Spare	0 VA	0 VA	0 VA	
H2	Spare	0 VA	0 VA	0 VA	
A	Spare	0 VA	0 VA	0 VA	
A1	Spare	0 VA	0 VA	0 VA	
M1	Spare	0 VA	0 VA	0 VA	
HVAC1	Spare; R; M	56261 VA	56261 VA	56441 VA	
HVAC1	Spare; M	57643 VA	57643 VA	57643 VA	
HVAC3	Spare; M	13744 VA	13744 VA	13744 VA	
PORTABLE	--	0 VA	0 VA	0 VA	
RANGE TOP	--	0 VA	0 VA	0 VA	
		127648 VA	127648 VA	127828 VA	
		1064 A	1064 A	1065 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	Power Factor:
R Receptacle	2340 VA	100.00%	2340 VA	
M Motor	380783 VA	100.76%	383665 VA	Total Connected Load: 383123 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 1063 A
G General	0 VA	0.00%	0 VA	Total Demand Load: 386905 VA
K Kitchen	0 VA	0.00%	0 VA	
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 1071 A
O Other	0 VA	0.00%	0 VA	

General Notes:

D

E

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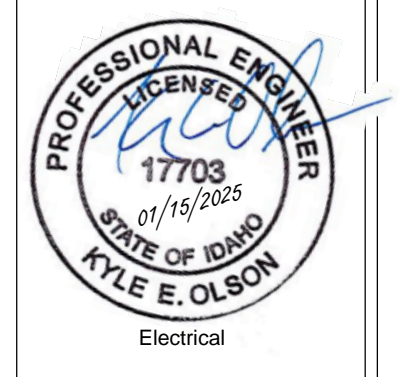
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
ELECTRICAL ONE-LINE DIAGRAM

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Revisions: △

Project No:	23028
Drawn By:	JS
Checked By:	KO
Date:	1/15/2025

Sheet No:
E0.11

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KEYNOTES

E7	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.
E13	CONNECT NEW RECEPTACLES 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.
E14	REINSTALL CEILING MOUNTED POWER, FIRE ALARMA ND LOW VOLTAGE DEVICES REMOVED THROUGH DEMO PHASE.

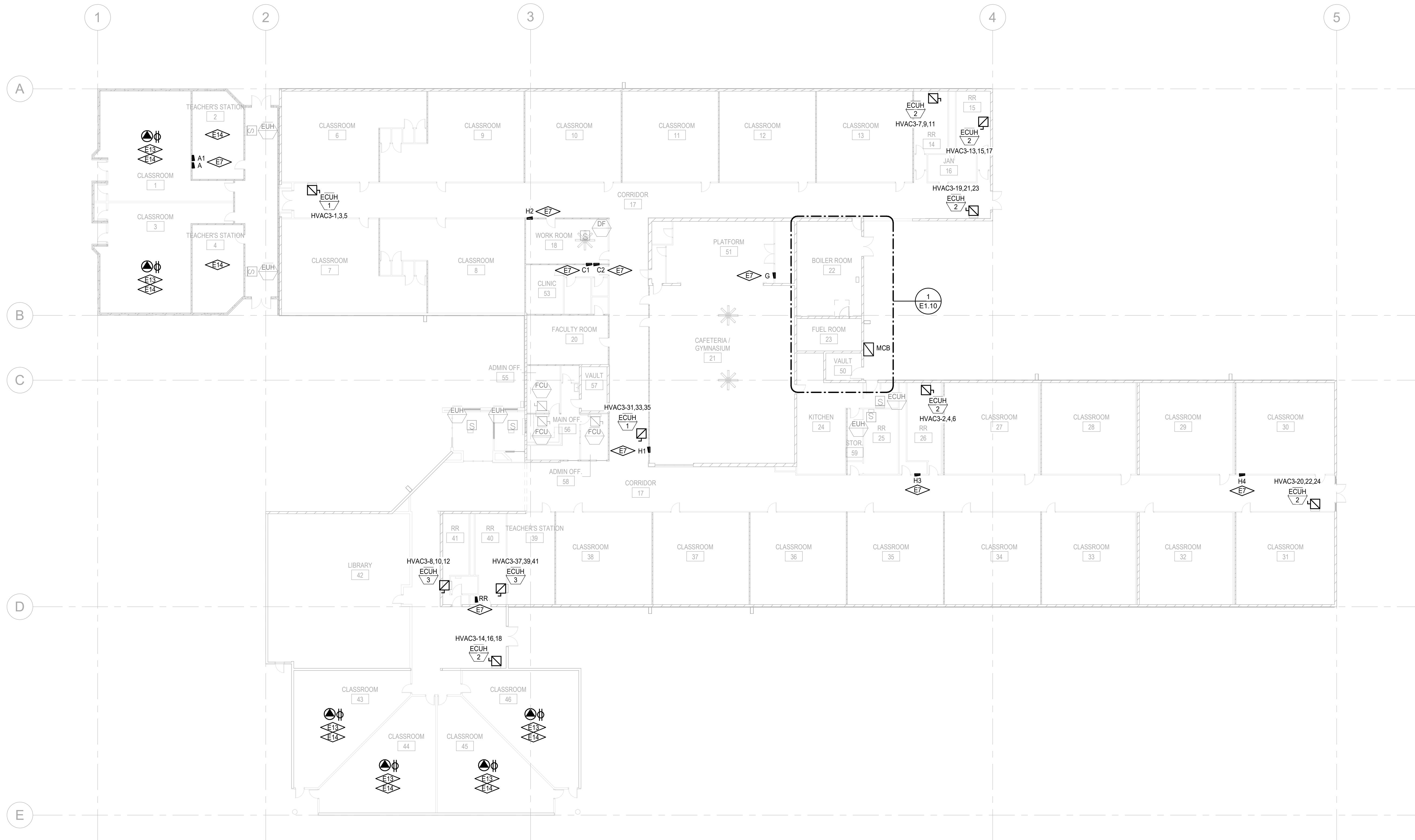
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LEVEL 1 POWER PLAN
SCALE: 1/16" = 1'-0"

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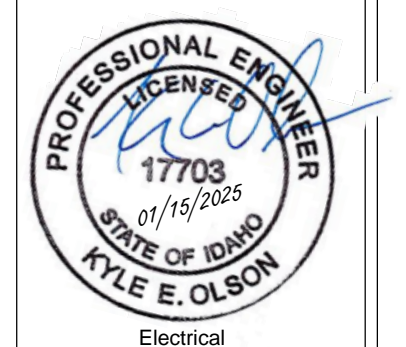
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
LEVEL 1 POWER PLAN

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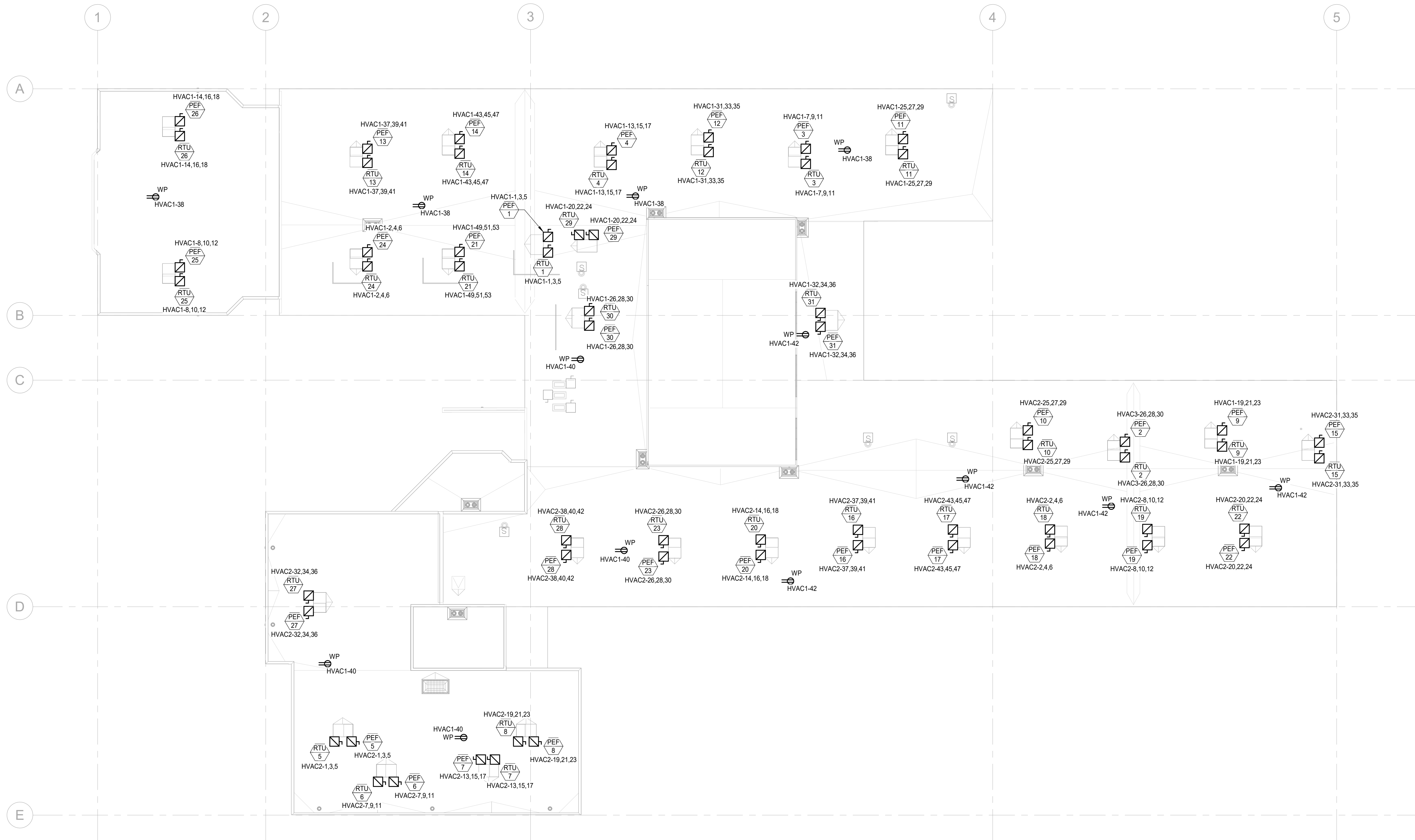


Revisions: △

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 1/15/2025

Sheet No:
E1.01

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ROOF POWER PLAN
SCALE: 1/16" = 1'-0"

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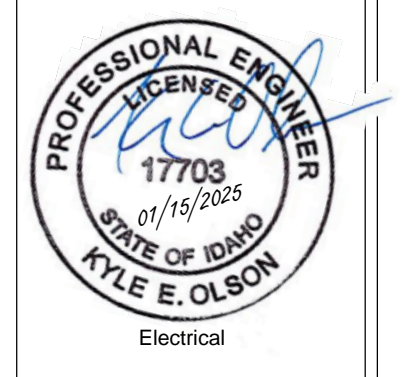
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 Twin Falls, ID 83301

Sheet:
ROOF POWER PLAN

100% CD



Revisions: △

Project No: 23028
 Drawn By: JS
 Checked By: KO
 Date: 1/15/2025

Sheet No: **E1.02**

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A

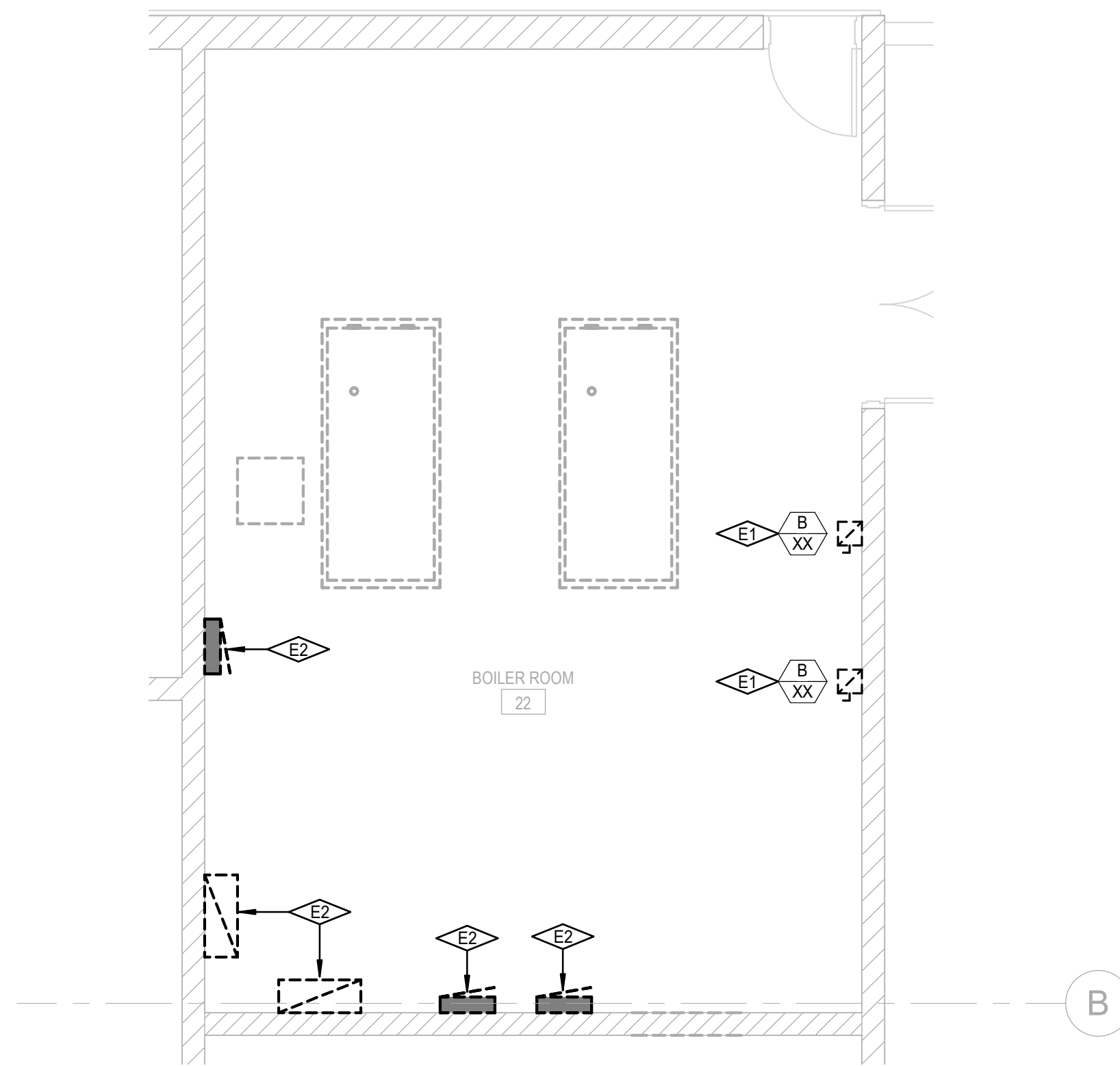
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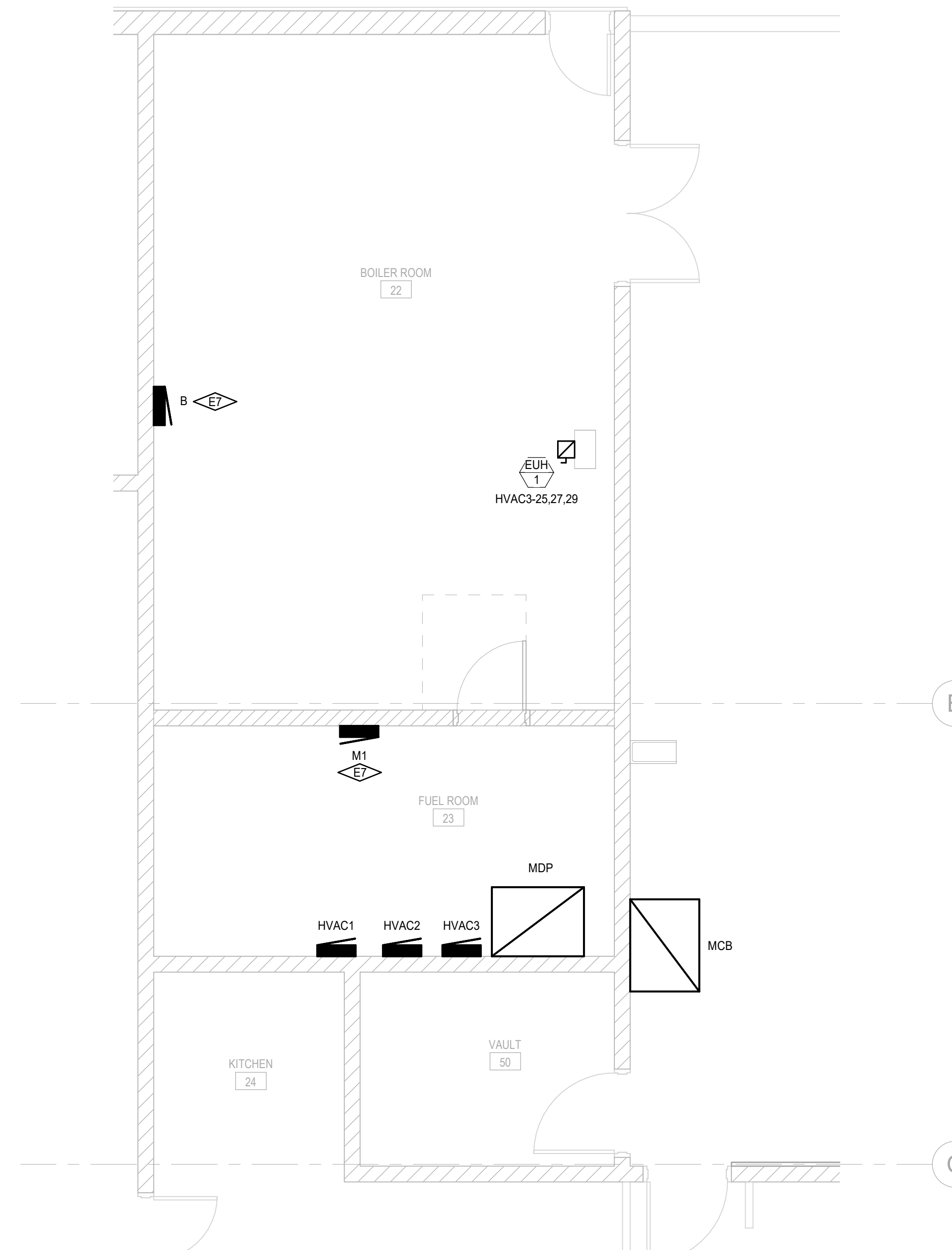
D

E

KEYNOTES	
E1	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKERS TO OFF POSITION AND RE-LABEL AS SPARE.
E2	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.
E7	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.



2 ENLARGED DEMOLITION ELECTRICAL ROOM PLAN
ED1.01 SCALE: 1/4" = 1'-0"



1 ENLARGED ELECTRICAL ROOM PLAN
E1.01 SCALE: 1/4" = 1'-0"

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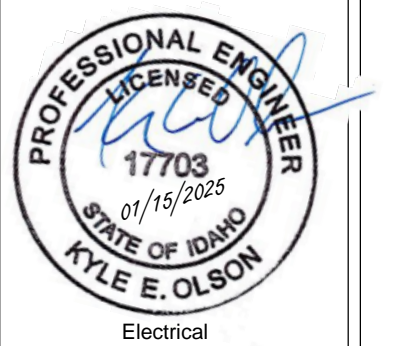
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
ELECTRICAL ENLARGED PLANS

100% CD



Revisions: △

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 1/15/2025

Sheet No:
E1.10

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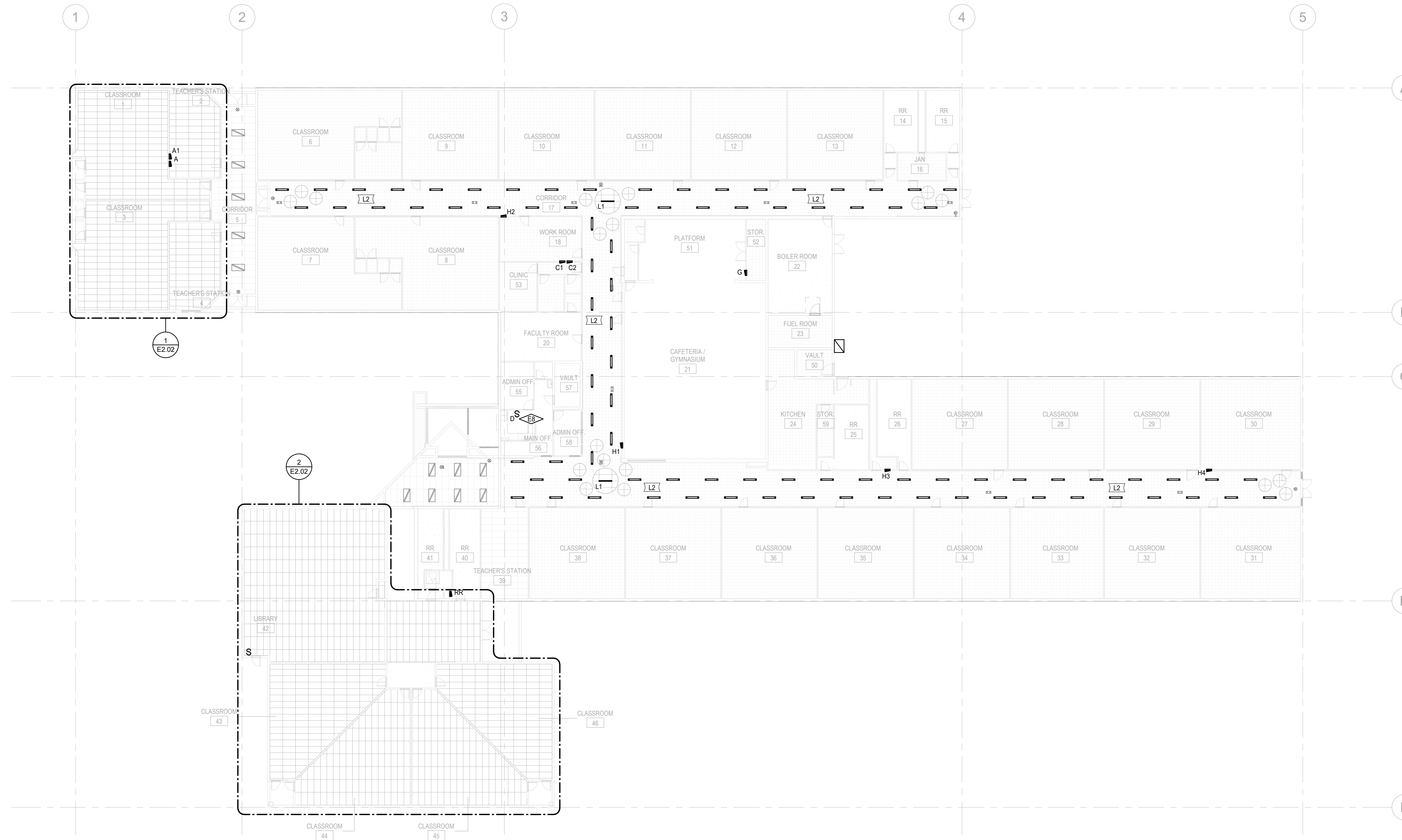
E

KEYNOTES

E8 TIE LIGHTING INTO EXISTING BUILDING LIGHTING CONTROLS.
INCORPORATE WALL BOX DIMMER FOR FINAL OUTPUT.

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 1 LIGHTING PLAN
SCALE: 1/16" = 1'-0"

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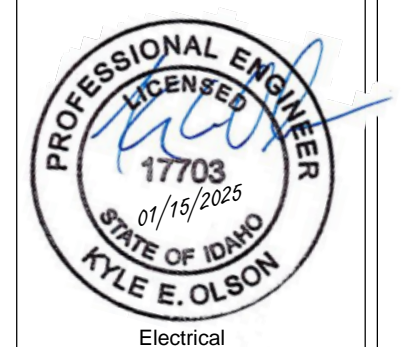
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
LEVEL 1 LIGHTING PLAN

100% CD



Revisions: △

Project No: 23028
Drawn By: JS
Checked By: KO
Date: 1/15/2025

Sheet No:
E2.01

1

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KEYNOTES

E10 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.

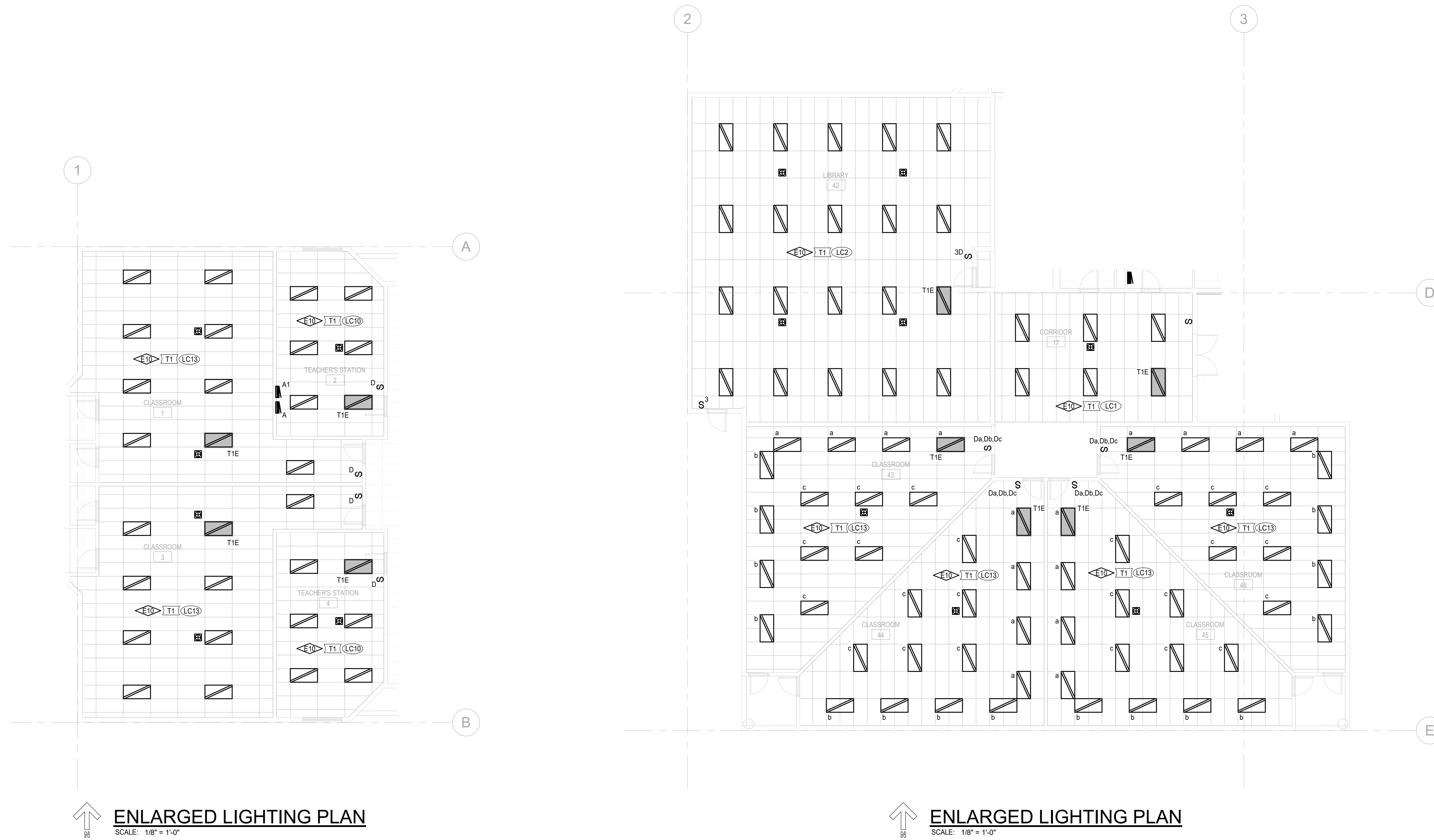
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ENLARGED LIGHTING PLAN
SCALE: 1/8" = 1'-0"

ENLARGED LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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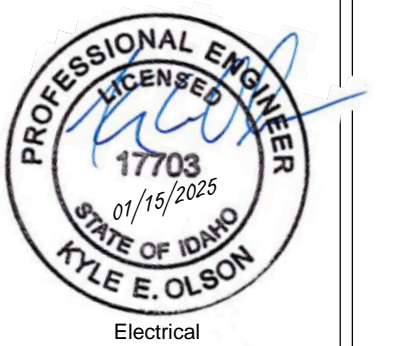
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Project:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

Harrison Elementary School
 600 Harrison St
 Twin Falls, ID 83301

Sheet:
 LEVEL 1 ENLARGED LIGHTING
 PLANS

100% CD



Revisions: △

Project No: 23028
 Drawn By: JS
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Sheet No:
E2.02

A

Panel M1
 Location: MDP
 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						0 VA	0 VA						2	
3		AIR COMP	--	20 A	3		0 VA	0 VA				1 20 A	--	R - ROOF
5			--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
7		R - ROOF	--	20 A	1		0 VA	0 VA				1 20 A	--	R - ROOF
9		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
11		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
13		R - ROOF	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
15		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	FREEZER
17		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	FREEZER
19		L - EXTERIOR	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
21			--	20 A	1		0 VA	0 VA				1 20 A	--	
23		TOP OVEN	--	50 A	3		0 VA	0 VA				3 50 A	--	BOTTOM OVEN
25		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	R - ROOF
27		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
29		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
Total Load:						0 VA	0 VA	0 VA				0 VA		
Total Amps:						0 A	0 A	0 A				0 A		
Phase Balance:						% A-B	% B-C	% C-A						

Load Type
 L Lighting 0 VA 0.00% 0 VA
 R Receptacle 0 VA 0.00% 0 VA
 M Motor 0 VA 0.00% 0 VA
 C Continuous 0 VA 0.00% 0 VA
 G General 0 VA 0.00% 0 VA
 K Kitchen 0 VA 0.00% 0 VA
 E Existing 0 VA 0.00% 0 VA
 O Other 0 VA 0.00% 0 VA

Panel Totals
 Power Factor: 1
 Total Connected Load: 0 VA
 Total Connected Current: 0 A
 Total Demand Load: 0 VA
 Total Demand Current: 0 A

General Notes:

B

Panel A
 Location: MDP
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1
 Voltage: 120/208 Wye
 Phase: 3
 Wire: 4
 A.I.C. Rating: 10 KAIC
 Mains Type: MCB
 Bus Rating: 100 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		HEATER	--	30 A	3		0 VA	0 VA				1 20 A	--	R - TEACHER RM
5			--	20 A	1		0 VA	0 VA				1 20 A	--	R - CLASSROOM
7		L - CLASSROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	R - ROOF SERVICE
9		L - CLASSROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
11		L - TEACHER ROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	R - ROOF SERVICE
13		L - TEACHER ROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
15		L - CLASSROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
17		L - CLASSROOM	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
19		L - HALLWAY	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
21		L - EXTERIOR	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
23		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
25		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
27		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
29		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
Total Load:						0 VA	0 VA	0 VA				0 VA		
Total Amps:						0 A	0 A	0 A				0 A		
Phase Balance:						% A-B	% B-C	% C-A						

Load Type
 L Lighting 0 VA 0.00% 0 VA
 R Receptacle 0 VA 0.00% 0 VA
 M Motor 0 VA 0.00% 0 VA
 C Continuous 0 VA 0.00% 0 VA
 G General 0 VA 0.00% 0 VA
 K Kitchen 0 VA 0.00% 0 VA
 E Existing 0 VA 0.00% 0 VA
 O Other 0 VA 0.00% 0 VA

Panel Totals
 Power Factor: 1
 Total Connected Load: 0 VA
 Total Connected Current: 0 A
 Total Demand Load: 0 VA
 Total Demand Current: 0 A

General Notes:

C

Panel C1
 Location: MDP
 Supply From: MDP
 Mounting: Recessed
 Enclosure: Type 1
 Voltage: 120/208 Wye
 Phase: 3
 Wire: 4
 A.I.C. Rating: 22 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		A: RM 9 - B: DR ACCESS	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 18
3		A: RM 9 - B: VESTIBULE	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 18
5		ROOM 10	--	20 A	1		0 VA	0 VA				2 30 A	--	VESTIBULE HEATERS
7		ROOM 10	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 18
9		ROOM 11	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 18
11		ROOM 11	--	20 A	1		0 VA	0 VA				1 20 A	--	A: RM 25 - B: RM 19
13		ROOM 12	--	20 A	1		0 VA	0 VA				1 20 A	--	A: RM 25 - B: RM 24
15		ROOM 12	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 24
17		ROOM 14	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 20
19		ROOM 14	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 20
21		ROOM 15	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 23
23		ROOM 15	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 23
25		ROOM 16	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 21
27		ROOM 16	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 21
29		ROOM 17	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 22
31		ROOM 17	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 22
33		OFFICE	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 14
35		OFFICE	--	20 A	1		0 VA	0 VA				1 20 A	--	ROOM 14
37		R - T.R.	--	20 A	1		0 VA	0 VA				3 100 A	Spare	C2
41		ROOM 14	--	20 A	1		0 VA	0 VA				1 20 A	--	
Total Load:						0 VA	0 VA	0 VA				0 VA		
Total Amps:						0 A	0 A	0 A				0 A		
Phase Balance:						% A-B	% B-C	% C-A						

Load Type
 L Lighting 0 VA 0.00% 0 VA
 R Receptacle 0 VA 0.00% 0 VA
 M Motor 0 VA 0.00% 0 VA
 C Continuous 0 VA 0.00% 0 VA
 G General 0 VA 0.00% 0 VA
 K Kitchen 0 VA 0.00% 0 VA
 E Existing 0 VA 0.00% 0 VA
 O Other 0 VA 0.00% 0 VA

Panel Totals
 Power Factor: 1
 Total Connected Load: 0 VA
 Total Connected Current: 0 A
 Total Demand Load: 0 VA
 Total Demand Current: 0 A

General Notes:

D

Panel G
 Location: MDP
 Supply From: MDP
 Mounting: Recessed
 Enclosure: Type 1
 Voltage: 120/208 Wye
 Phase: 3
 Wire: 4
 A.I.C. Rating: 22 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		L - AUDITORIUM	--	20 A	1		0 VA	0 VA				1 20 A	--	L - AUDITORIUM
3		L - AUDITORIUM	--	20 A	1		0 VA	0 VA				1 20 A	--	R - STAGE EAST
5		R - BALCONY EAST	--	20 A	1		0 VA	0 VA				1 20 A	--	R - STAGE WEST
7		R - CEILING	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
9		L - STAGE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
11		L - ROOM 7	--	20 A	1		0 VA	0 VA				1 20 A	--	L - ROOM 7
13		L - ROOM 8	--	20 A	1		0 VA	0 VA				1 20 A	--	L - ROOM 8
15		L - ROOM 8	--	20 A	1		0 VA	0 VA				1 20 A	--	R - CLASSROOM
17			--	20 A	1		0 VA	0 VA				1 20 A	--	R - AUDITORIUM
19		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	L - ROOM 8
21		L - STAGE	--	20 A	1		0 VA	0 VA				1 20 A	--	L - ROOF
23		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
25		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
27		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
29		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
Total Load:						0 VA	0 VA	0 VA				0 VA		
Total Amps:						0 A	0 A	0 A				0 A		
Phase Balance:						% A-B	% B-C	% C-A						

Load Type
 L Lighting 0 VA 0.00% 0 VA
 R Receptacle 0 VA 0.00% 0 VA
 M Motor 0 VA 0.00% 0 VA
 C Continuous 0 VA 0.00% 0 VA
 G General 0 VA 0.00% 0 VA
 K Kitchen 0 VA 0.00% 0 VA
 E Existing 0 VA 0.00% 0 VA
 O Other 0 VA 0.00% 0 VA

Panel Totals
 Power Factor: 1
 Total Connected Load: 0 VA
 Total Connected Current: 0 A
 Total Demand Load: 0 VA
 Total Demand Current: 0 A

General Notes:

E

Panel A1
 Location: MDP
 Supply From: MDP
 Mounting: Surface
 Enclosure: Type 1
 Voltage: 120/208 Wye
 Phase: 3
 Wire: 4
 A.I.C. Rating: 10 KAIC
 Mains Type: MCB
 Bus Rating: 200 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
3		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
5		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
7		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
9		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
11		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
13		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
15		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
17		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
19		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
21		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
23		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
25		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
27		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
29		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
31		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
33		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
35		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
37		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
39		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
41		SPARE	--	20 A	1		0 VA	0 VA				1 20 A	--	SPARE
Total Load:						0 VA	0 VA	0 VA				0 VA		
Total Amps:						0 A	0 A	0 A				0 A		
Phase Balance:						% A-B	% B-C	% C-A						

Load Type
 L Lighting 0 VA 0.00% 0 VA
 R Receptacle 0 VA 0.00% 0 VA
 M Motor 0 VA 0.00% 0 VA
 C Continuous 0 VA 0.00% 0 VA
 G General 0 VA 0.00% 0 VA
 K Kitchen 0 VA 0.00% 0 VA
 E Existing 0 VA 0.00% 0 VA
 O Other 0 VA 0.00% 0 VA

Panel Totals
 Power Factor: 1
 Total Connected Load: 0 VA
 Total Connected Current: 0 A
 Total Demand Load: 0 VA
 Total Demand Current: 0 A

General Notes:

Panel C2
 Location: C1
 Supply From: C1
 Mounting: Recessed
 Enclosure: Type 1
 Voltage: 120/208 Wye
 Phase: 3
 Wire: 4
 A.I.C. Rating: 22 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		ROOM 1	--	20 A	1		0 VA	0 VA				1 20 A	--	

Panel HVAC3

Location: 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: 250 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1						667 VA	1000 VA						2	
3	ECUH-1		M	20 A	3		667 VA	1000 VA		3	20 A	M	ECUH-2	4
5						1000 VA	667 VA						6	
7						1000 VA	667 VA						8	
9	ECUH-2		M	20 A	3		1000 VA	667 VA		3	20 A	M	ECUH-3	10
11						1000 VA	1000 VA						12	
13	ECUH-2		M	20 A	3		1000 VA	1000 VA		3	20 A	M	ECUH-2	14
15						1000 VA	1000 VA						16	
17						1000 VA	1000 VA						18	
19						1000 VA	1000 VA						20	
21	ECUH-2		M	20 A	3		1000 VA	1000 VA		3	20 A	M	ECUH-2	22
23						1000 VA	1000 VA						24	
25						1667 VA	3411 VA						26	
27	EUH-1		M	20 A	3		1667 VA	3411 VA		3	40 A	M	RTU-2	28
29						667 VA	0 VA						30	
31						667 VA	0 VA						32	
33	ECUH-1		M	20 A	3		667 VA	0 VA		3	20 A	--	SPARE	34
35						667 VA	0 VA						36	
37						667 VA	0 VA						38	
39	ECUH-3		M	20 A	3		667 VA	0 VA		3	20 A	--	SPARE	40
41						667 VA	0 VA						42	
43						0 VA	0 VA						44	
45	SPARE		--	20 A	3		0 VA	0 VA		3	20 A	--	SPARE	46
47						0 VA	0 VA						48	
49						0 VA	0 VA						50	
51	SPARE		--	3						3	--	--	SPARE	52
53													54	
55													56	
57	SPARE		--	3						3	--	--	SPARE	58
59													60	

Total Load: 13744 VA, Total Amps: 115 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	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	41232 VA	105.68%	43573 VA	Total Connected Load: 41232 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 114 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 43573 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 121 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC2

Location: 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: 600 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1						3411 VA	4131 VA						2	
3	RTU-5		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-18	4
5						3411 VA	4131 VA						6	
7						3411 VA	4131 VA						8	
9	RTU-6		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-19	10
11						3411 VA	4131 VA						12	
13						3411 VA	4131 VA						14	
15	RTU-7		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-20	16
17						3411 VA	4131 VA						18	
19						3411 VA	4131 VA						20	
21	RTU-8		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-22	22
23						3411 VA	4131 VA						24	
25						3411 VA	4131 VA						26	
27	RTU-10		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-23	28
29						3411 VA	4131 VA						30	
31						3411 VA	4131 VA						32	
33	RTU-15		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-27	34
35						3411 VA	4131 VA						36	
37						4131 VA	4131 VA						38	
39	RTU-16		M	45 A	3		4131 VA	4131 VA		3	45 A	M	RTU-28	40
41						4131 VA	4131 VA						42	
43						4131 VA	0 VA						44	
45	RTU-17		M	45 A	3		4131 VA	0 VA		3	40 A	--	SPARE	46
47						0 VA	0 VA						48	
49						0 VA	0 VA						50	
51	SPARE		--	30 A	3		0 VA	0 VA		3	40 A	--	SPARE	52
53						0 VA	0 VA						54	
55						0 VA	0 VA						56	
57	SPARE		--	30 A	3		0 VA	0 VA		3	40 A	--	SPARE	58
59						0 VA	0 VA						60	

Total Load: 57643 VA, Total Amps: 480 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	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	172828 VA	101.87%	175810 VA	Total Connected Load: 172828 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 480 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 175810 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 488 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC1

Location: 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: 600 A

Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1						2750 VA	4131 VA						2	
3	RTU-1		M	35 A	3		2750 VA	4131 VA		3	45 A	M	RTU-24	4
5						3411 VA	4131 VA						6	
7						3411 VA	4131 VA						8	
9	RTU-3		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-25	10
11						3411 VA	4131 VA						12	
13						3411 VA	4131 VA						14	
15	RTU-4		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-26	16
17						3411 VA	4131 VA						18	
19						3411 VA	4131 VA						20	
21	RTU-9		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-29	22
23						3411 VA	4131 VA						24	
25						3411 VA	4131 VA						26	
27	RTU-11		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-30	28
29						3411 VA	4131 VA						30	
31						3411 VA	4131 VA						32	
33	RTU-12		M	40 A	3		3411 VA	4131 VA		3	45 A	M	RTU-31	34
35						3411 VA	4131 VA						36	
37						3411 VA	720 VA						38	
39	RTU-13		M	40 A	3		3411 VA	720 VA		1	20 A	R	R ROOF	40
41						469 A	469 A						42	
43						3411 VA	0 VA						44	
45	RTU-14		M	40 A	3		3411 VA	0 VA		3	40 A	--	SPARE	46
47						3411 VA	0 VA						48	
49						4131 VA	0 VA						50	
51	RTU-21		M	45 A	3		4131 VA	0 VA		3	30 A	--	SPARE	52
53						4131 VA	0 VA						54	
55						0 VA	0 VA						56	
57	SPARE		--	30 A	3		0 VA	0 VA		3	30 A	--	SPARE	58
59						0 VA	0 VA						60	

Total Load: 56261 VA, Total Amps: 469 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	Power Factor: 1
R Receptacle	2340 VA	100.00%	2340 VA	
M Motor	166823 VA	101.73%	169505 VA	Total Connected Load: 168863 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 469 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 171845 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 477 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel H3

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

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

A.I.C. Rating: 22 KAIC, Mains Type: MLO, Bus Rating: 225 A

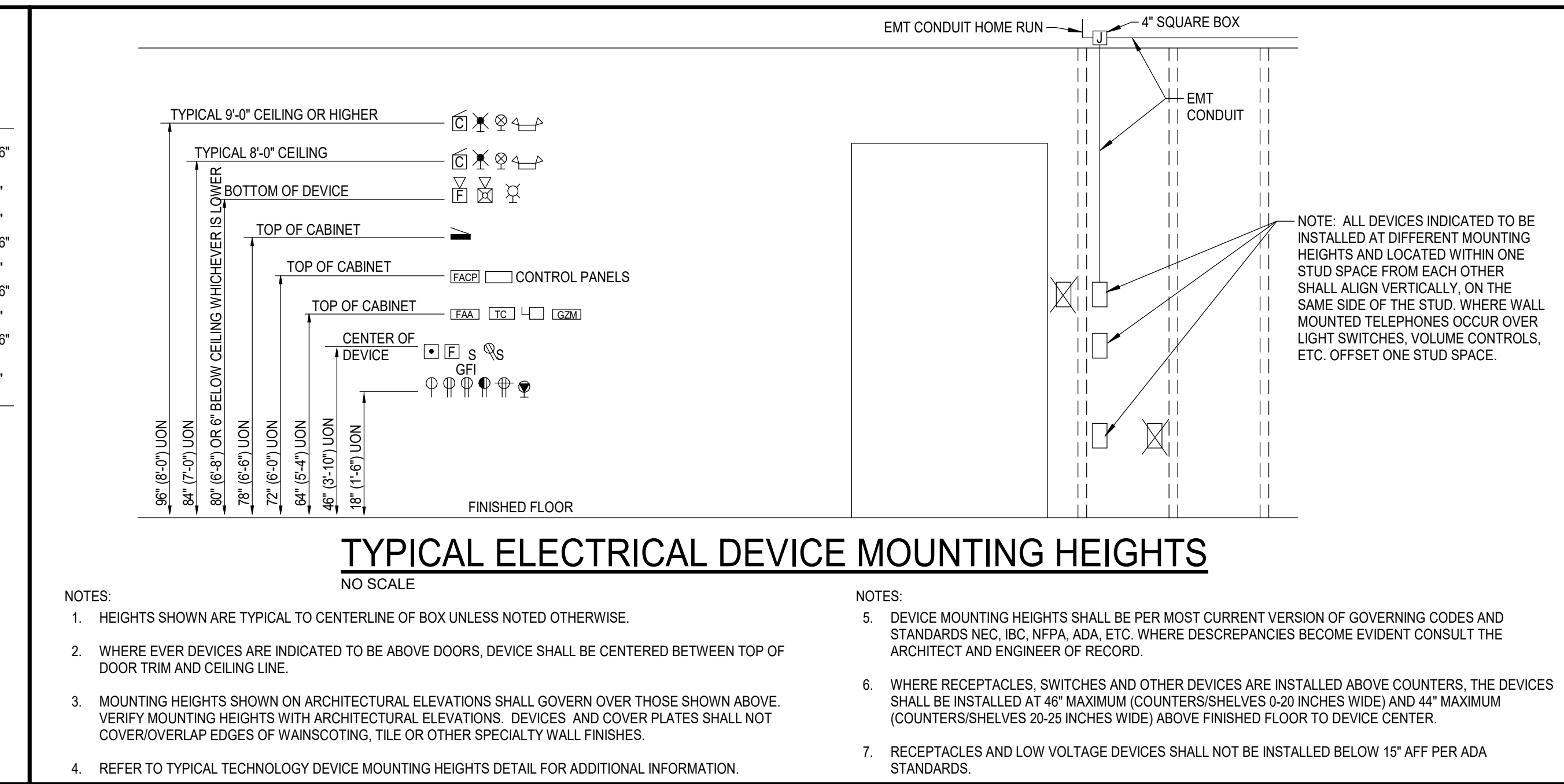
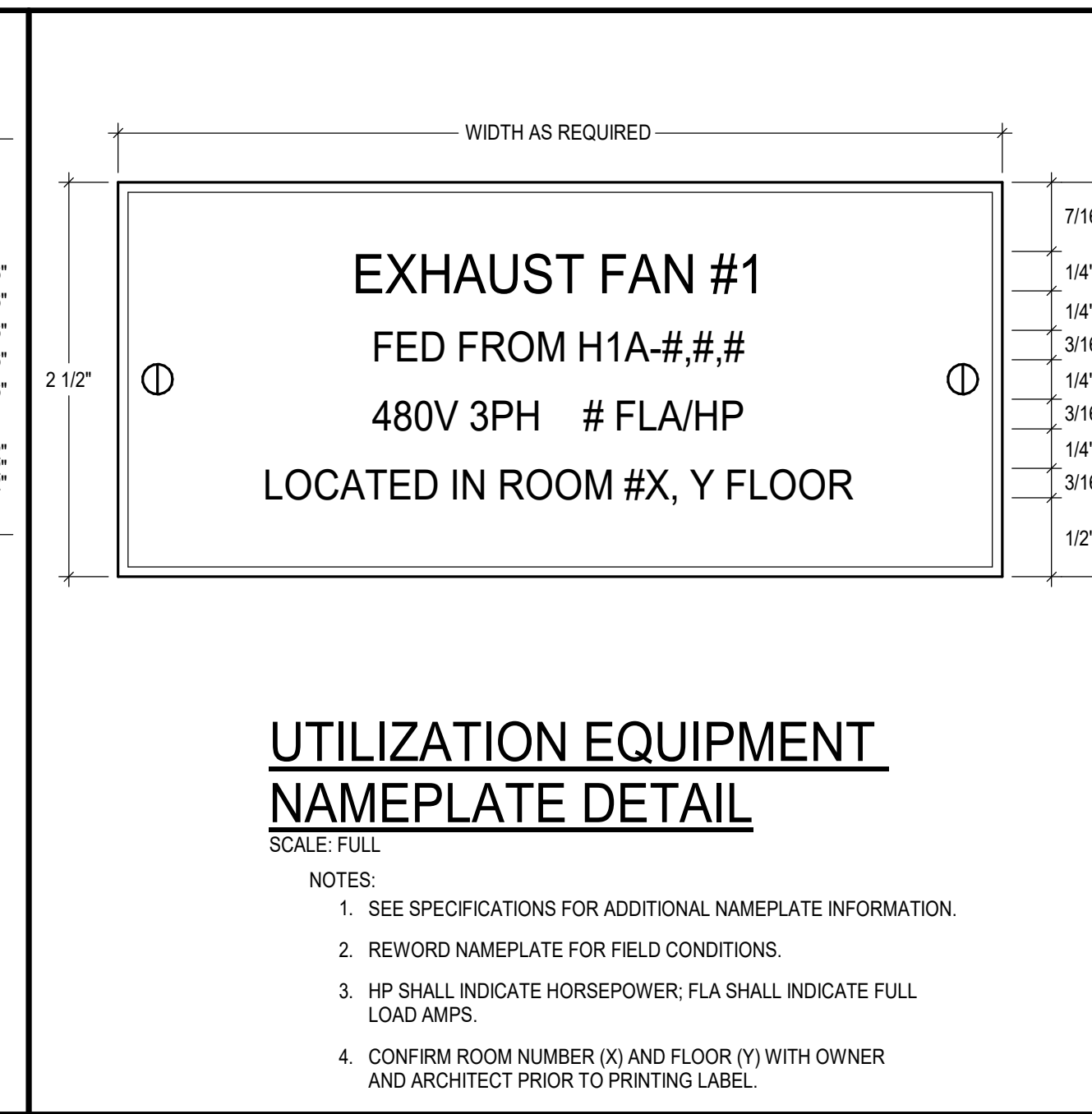
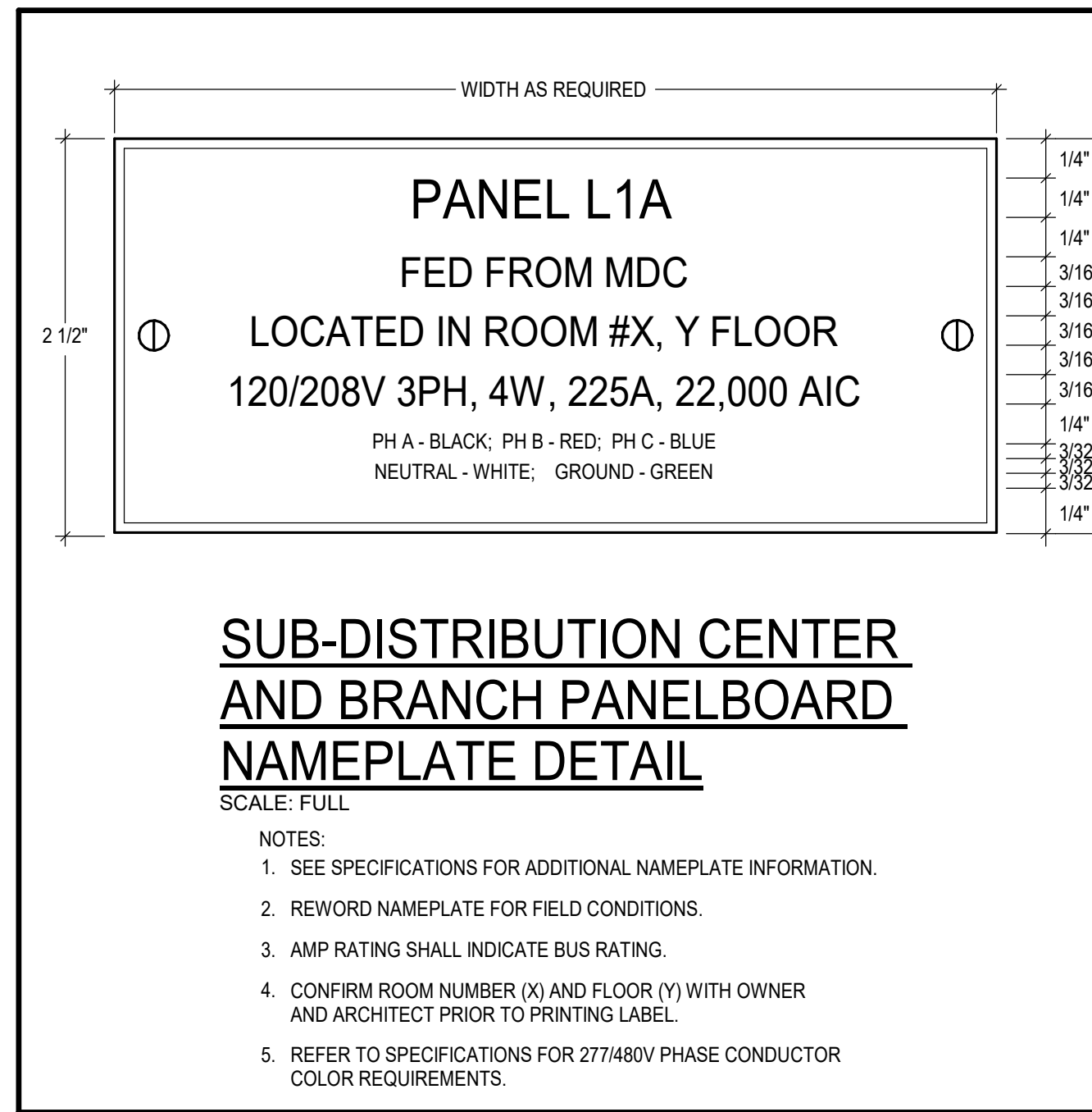
Circuit Notes:

Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	L - ROOM 24		--	20 A	1	0 VA	0 VA			1	20 A	--	L - ROOM 16	2
3	L - ROOM 24		--	20 A	1		0 VA	0 VA		1	20 A	--	L - ROOM 16	4
5	L - ROOM 24		--	20 A	1		0 VA	0 VA		1	20 A	--	L - ROOM 16	6
7	L - ROOM 19		--	20 A	1	0 VA	0 VA			1	20 A	--	UNIT HEATERS	8
9	L - ROOM 19		--	20 A	1		0 VA	0 VA		1	20 A	--	R - CLASSROOM	10
11	L - ROOM 19		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	12
13	L - ROOM 18		--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	14
15	L - ROOM 18		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	16
17	L - ROOM 18		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	18
19	L - ROOM 25, JANITOR		--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	20
21	L - ROOM...		--	20 A	1		0 VA	0 VA		1	20 A	--	R - ROOM 17, 18	22
23	L - ROOM...		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	24
25	L - ROOM 17		--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	26
27	L - ROOM 17		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	28
29	L - ROOM 17		--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	30

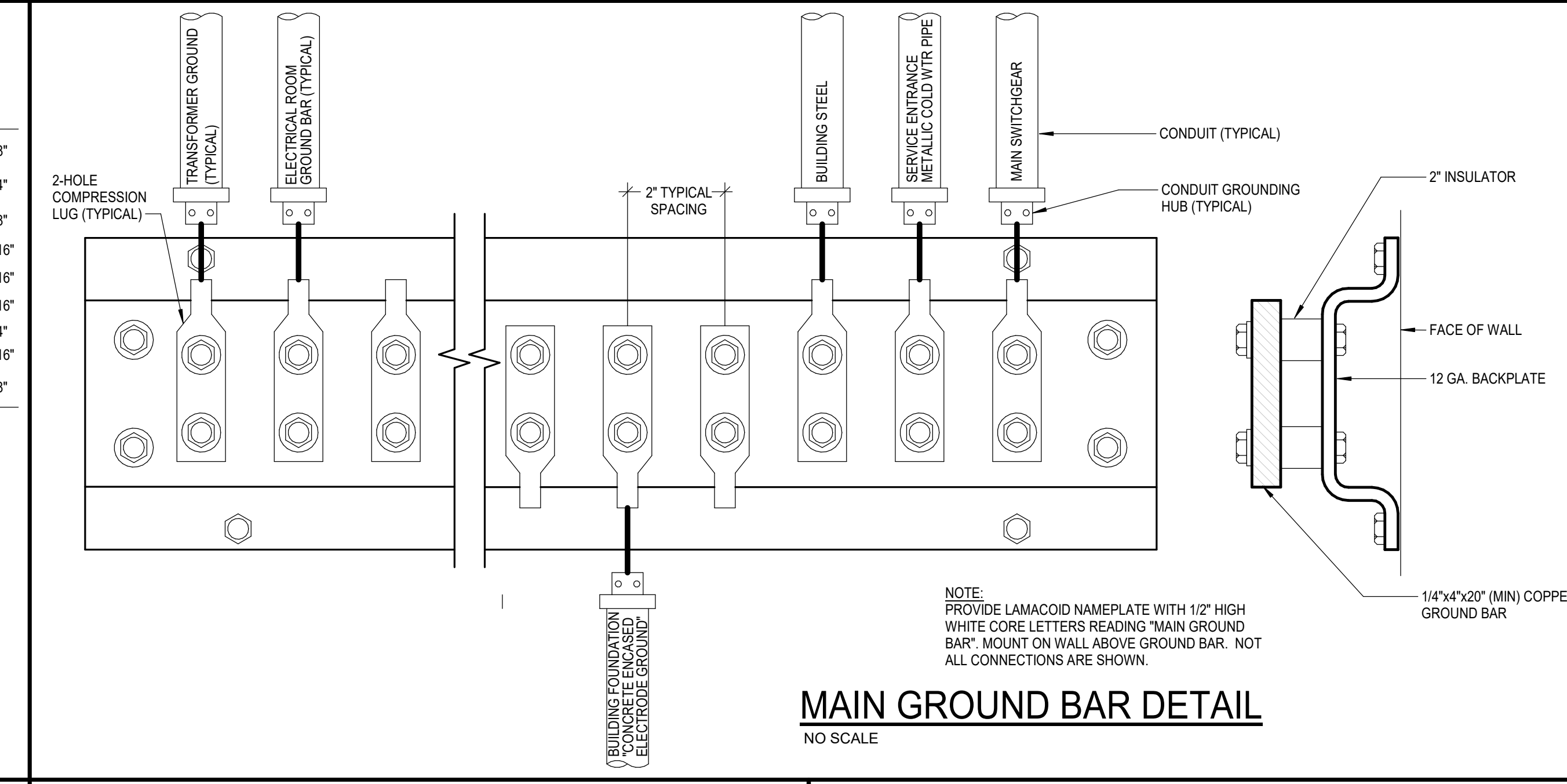
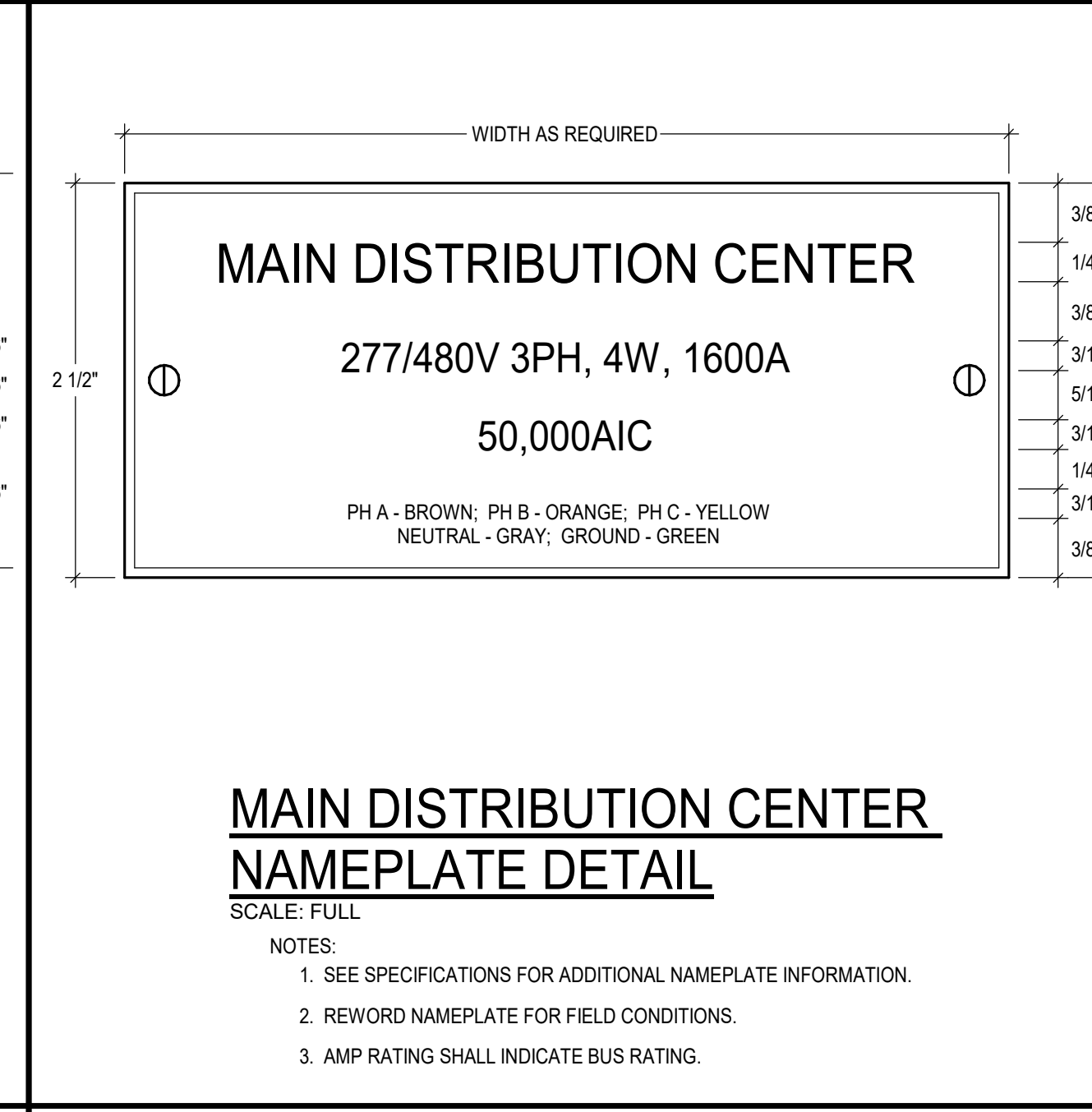
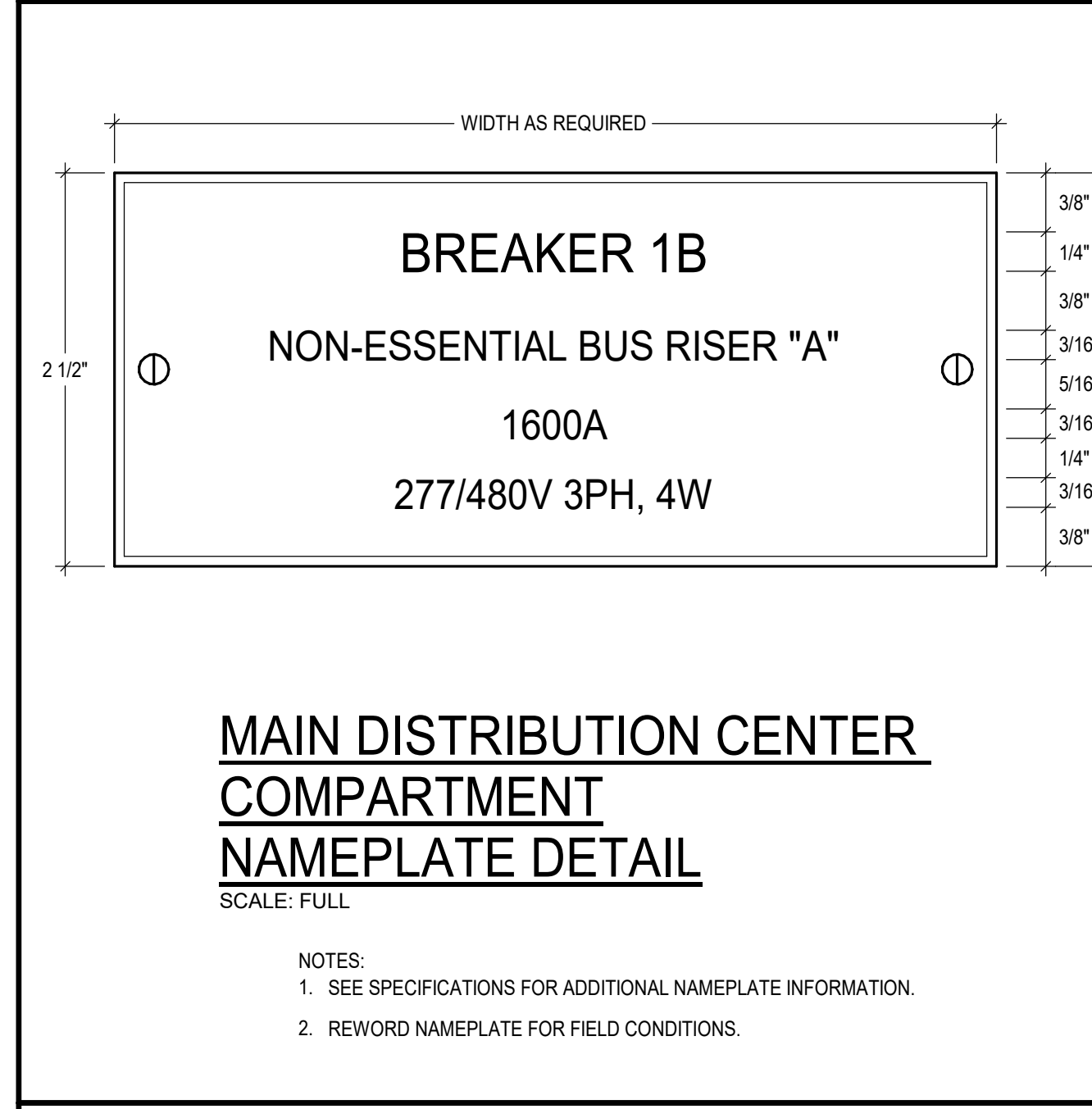
Total Load: 0 VA, Total Amps: 0 A, Phase Balance: 0 % A-B, 0 % B-C, 0 % C-A

Load Type	Connected Load	Demand Factor	Demand Load	Panel Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	0 VA	0.00%	0 VA	
M Motor	0 VA			

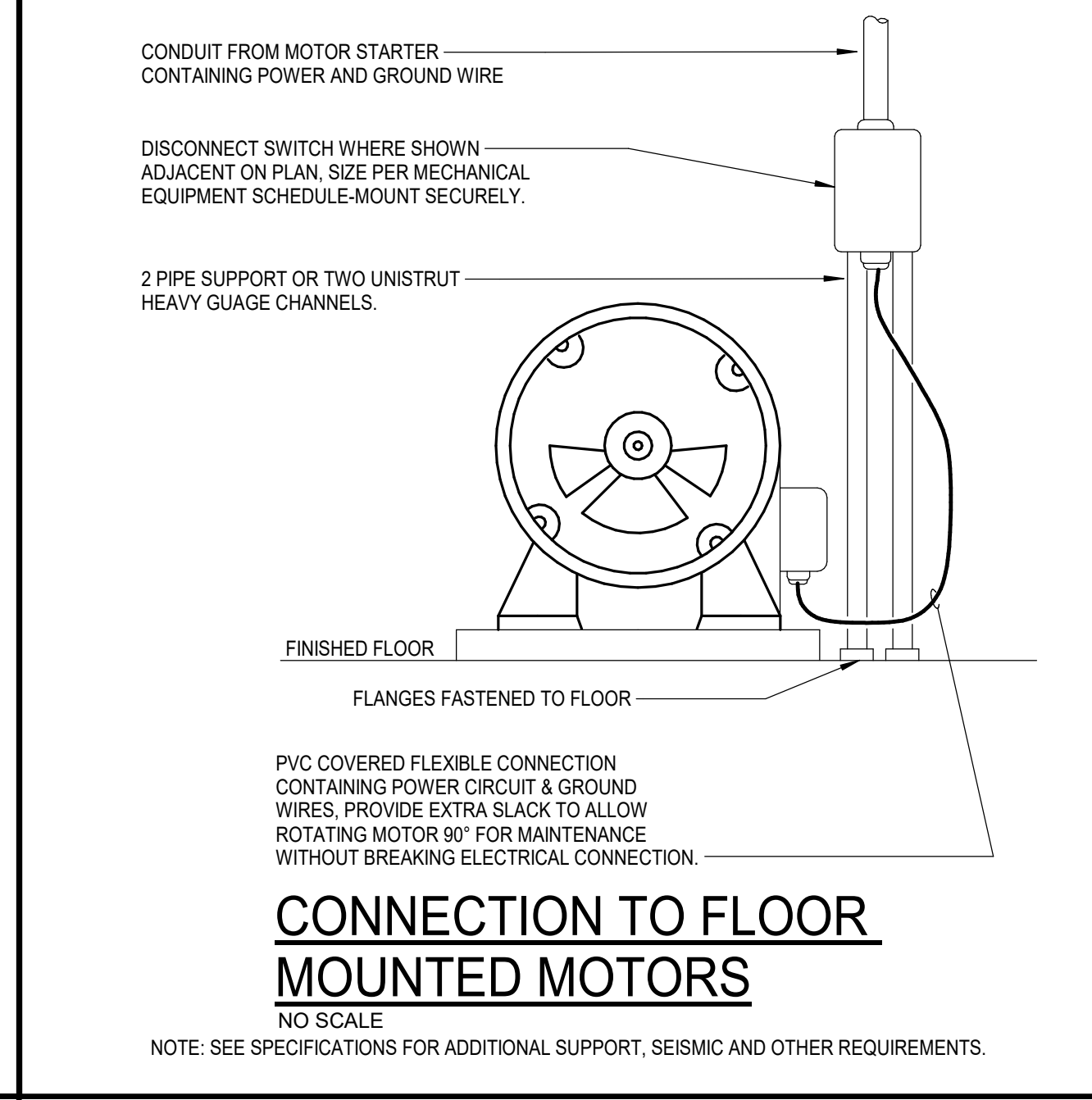
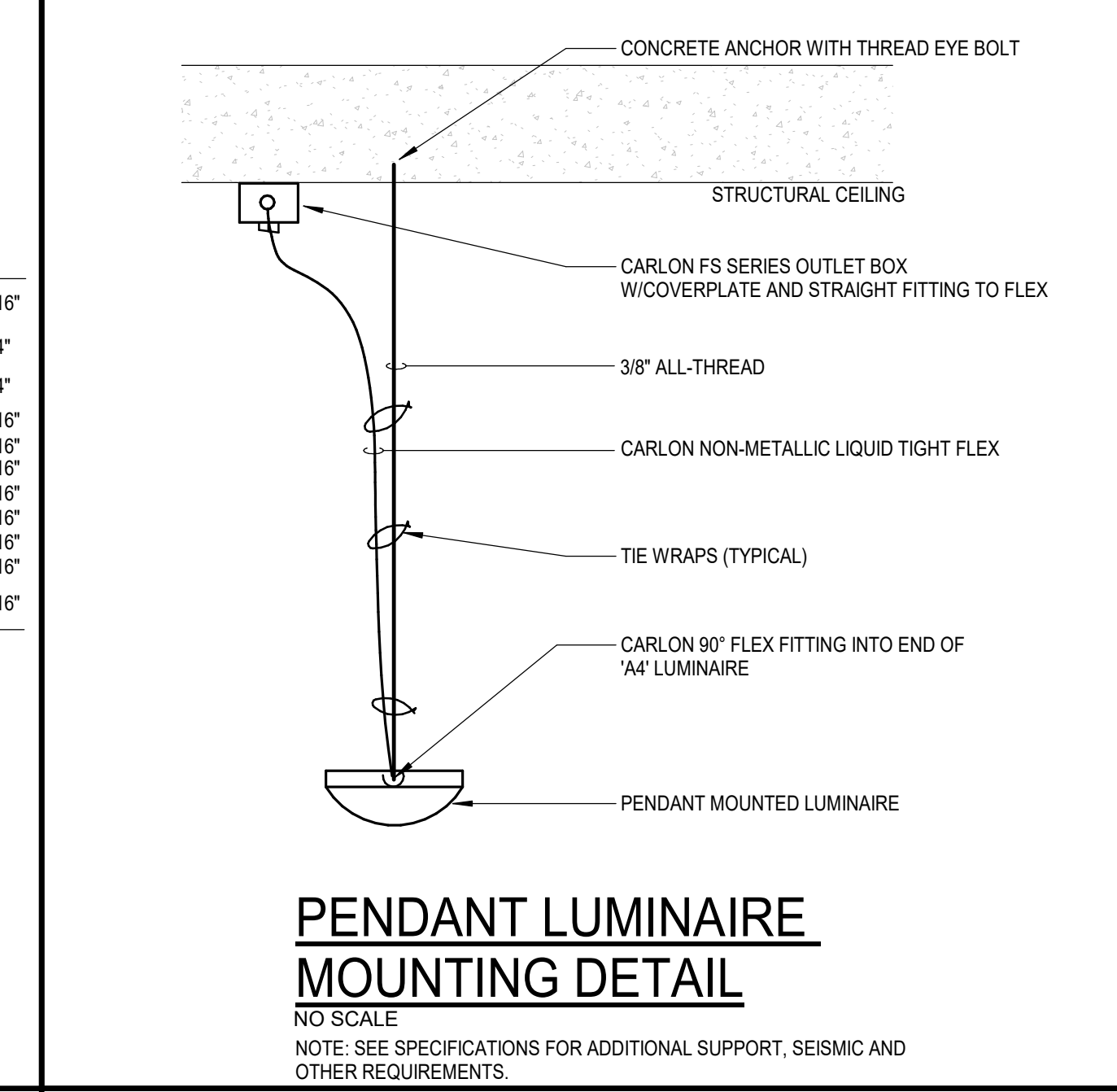
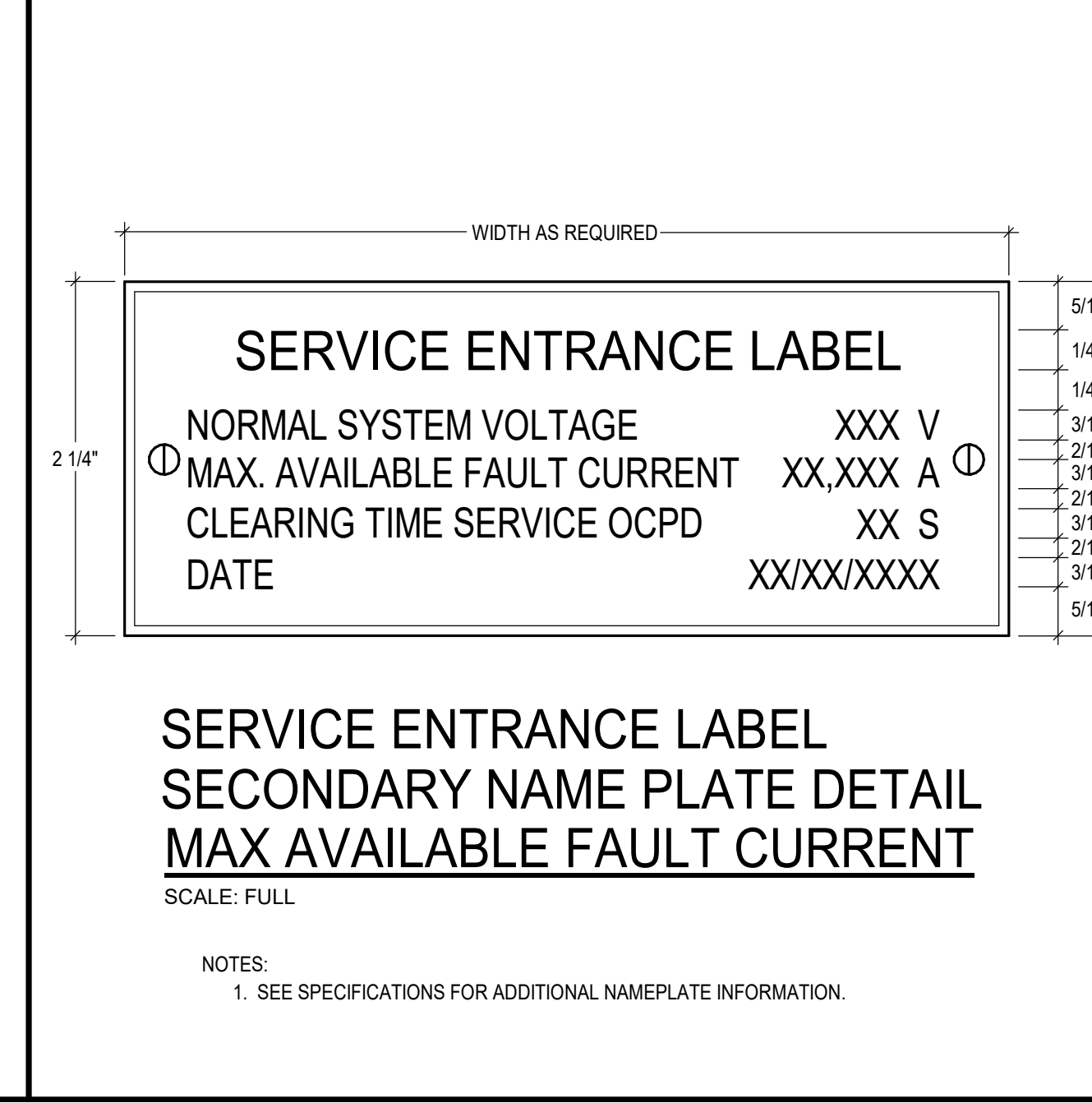
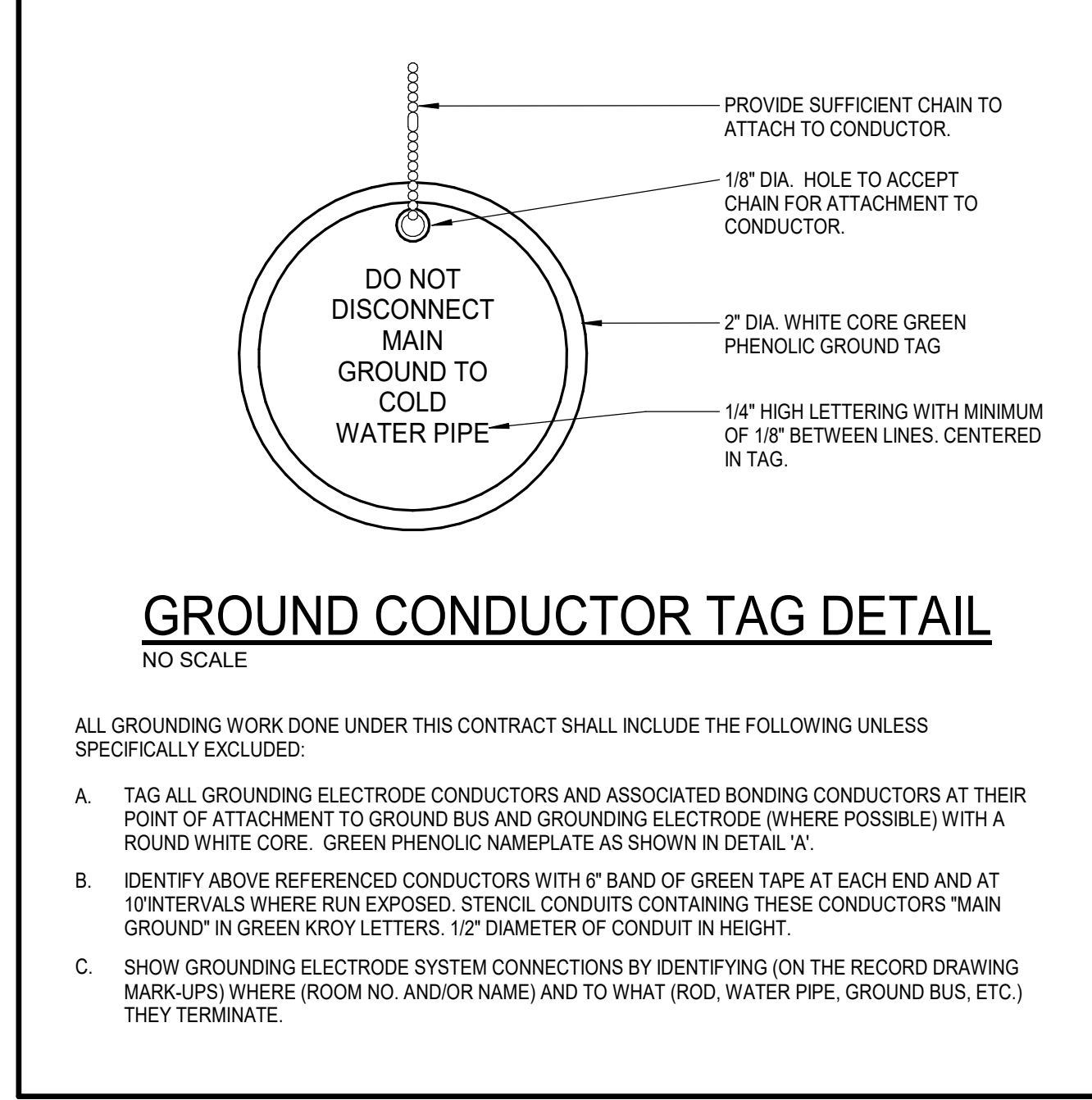
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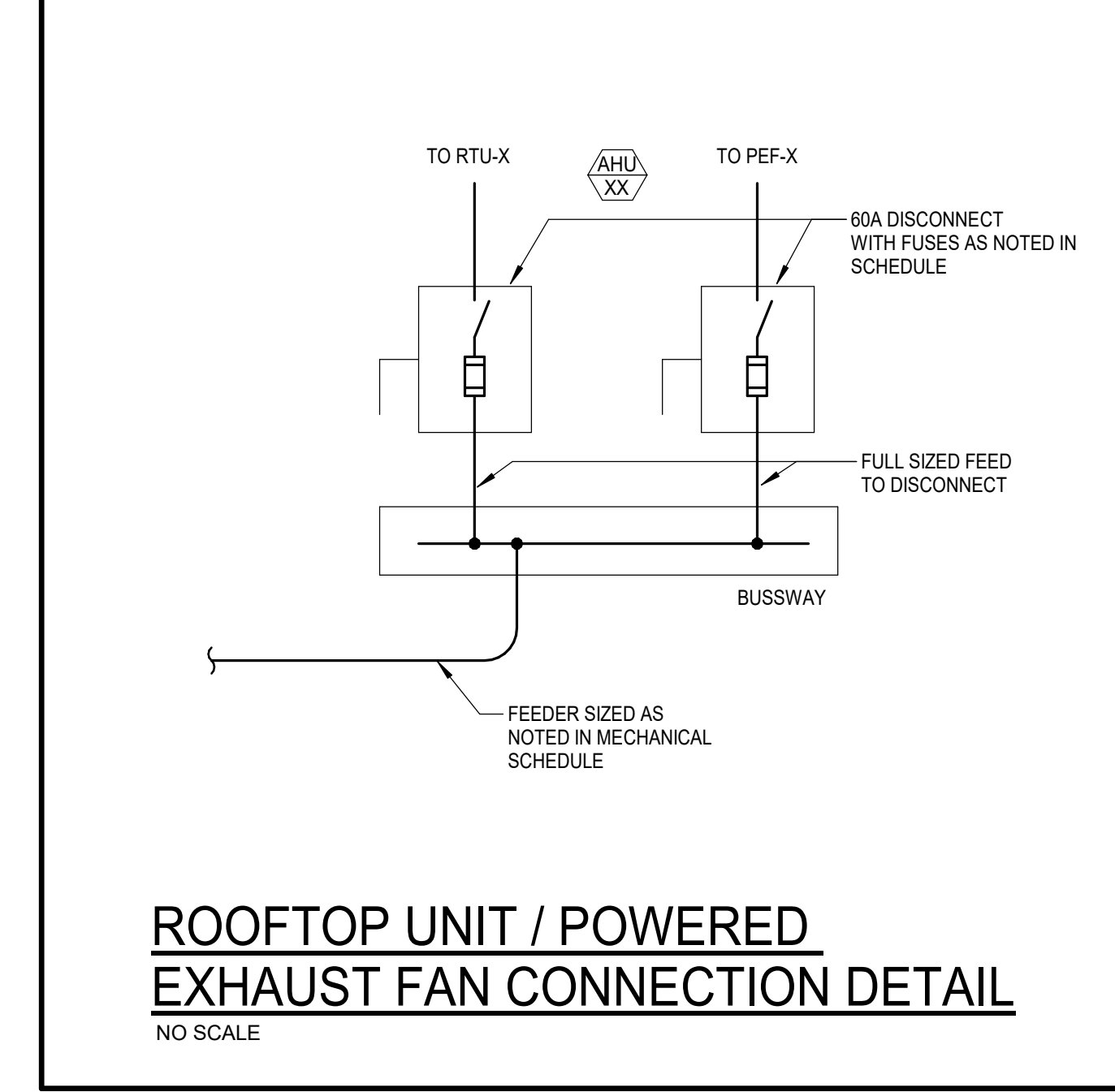


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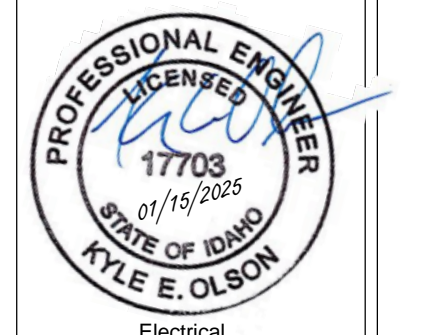
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Harrison Elementary School
600 Harrison St
Twin Falls, ID 83301

Sheet:
ELECTRICAL DETAILS

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Project No: 23028
Drawn By: JS
Checked By: KO
Date: 1/15/2025

Sheet No:
E4.01

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KEYNOTES

E1	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKERS TO OFF POSITION AND RE-LABEL AS SPARE.
E2	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.
E12	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.

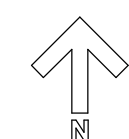
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LEVEL 1 POWER DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

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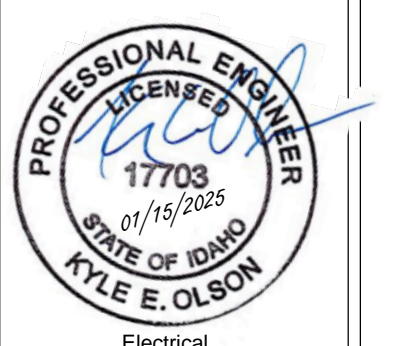
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Sheet:
 LEVEL 1 POWER DEMOLITION
 PLAN

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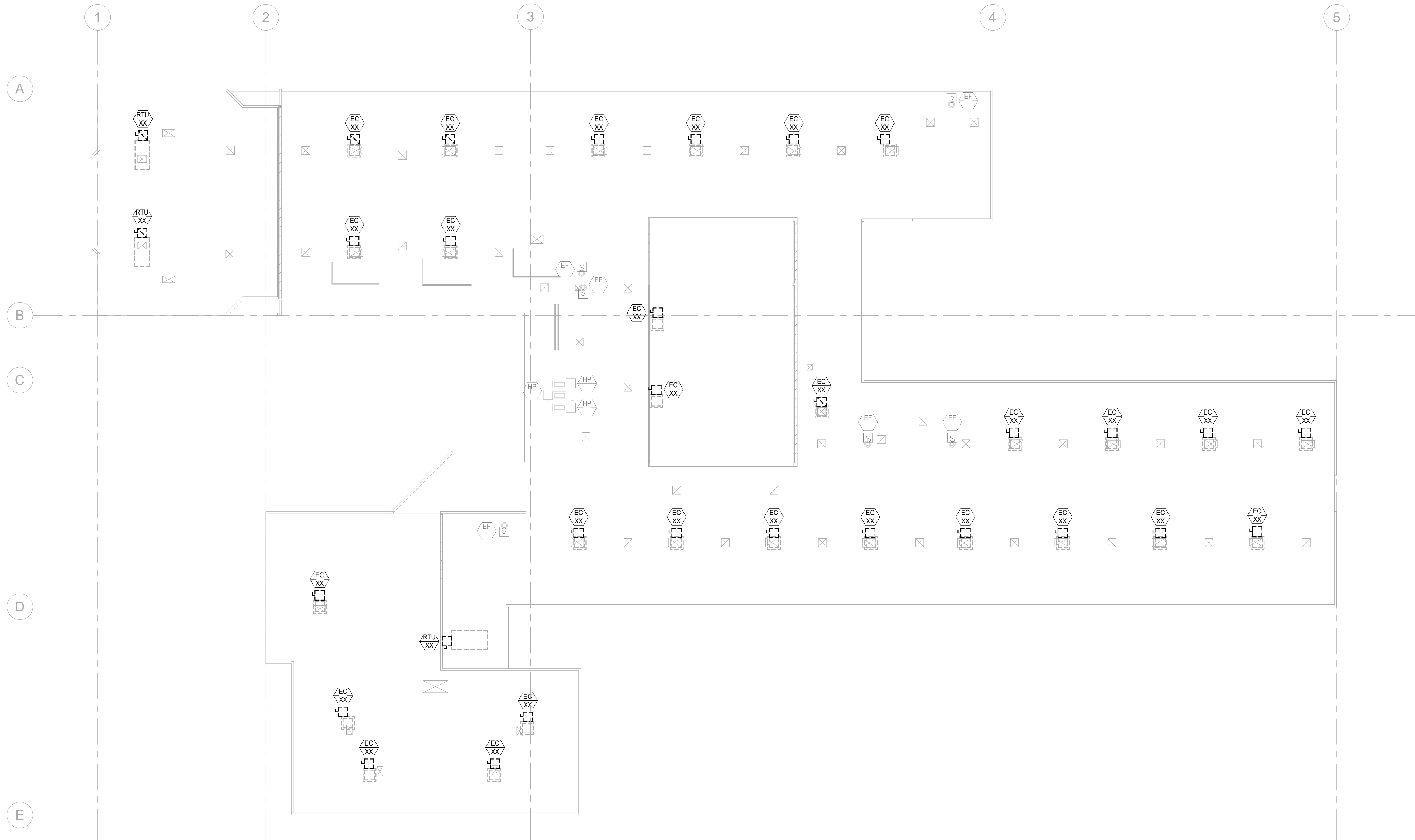
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↑ ROOF POWER DEMOLITION PLAN
 SCALE: 1/16" = 1'-0"

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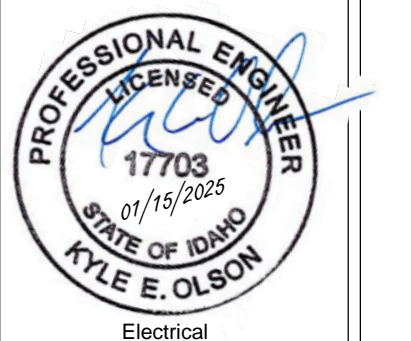
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Sheet:
 ROOF POWER DEMOLITION
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Sheet No:
ED1.02

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KEYNOTES

E11 EXISTING LUMINAIRES 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.

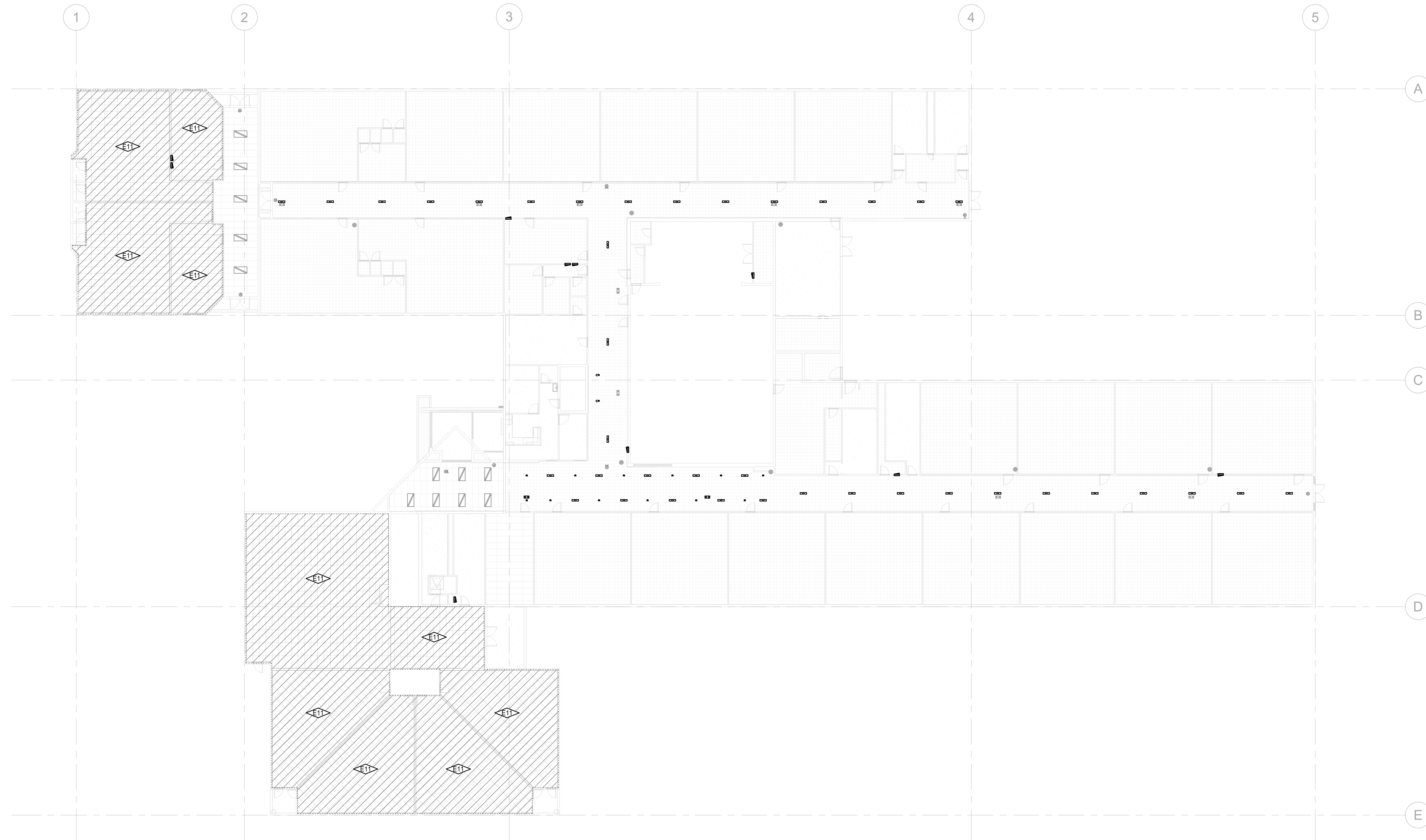
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LEVEL 1 LIGHTING DEMOLITION PLAN
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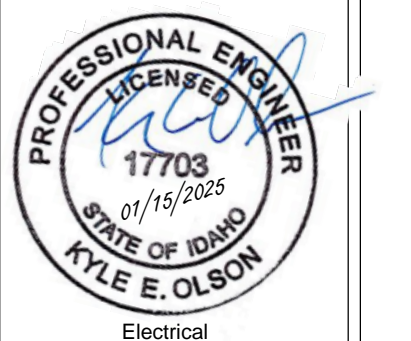
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Sheet:
 LEVEL 1 LIGHTING
 DEMOLITION PLAN

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