

PROJECT:

MORNINGSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT

Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

CLIENT:

TWIN FALLS SCHOOL DISTRICT #411

201 MAIN AVE.
 TWIN FALLS, IDAHO 83301

H U M M E L
 ARCHITECTS

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

CONSULTANTS:

STRUCTURAL ENGINEER
 KPFF

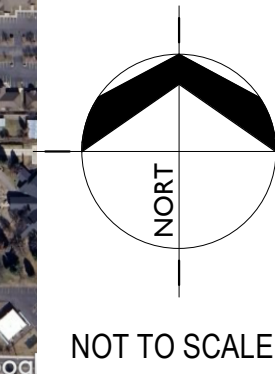
MECHANICAL AND ELECTRICAL ENGINEER
 CATOR RUMA & ASSOCIATES CO

DRAWING SET:

ARCHITECTURAL
 STRUCTURAL
 MECHANICAL
 ELECTRICAL

VICINITY MAP:

H. A. - JOB # 24074



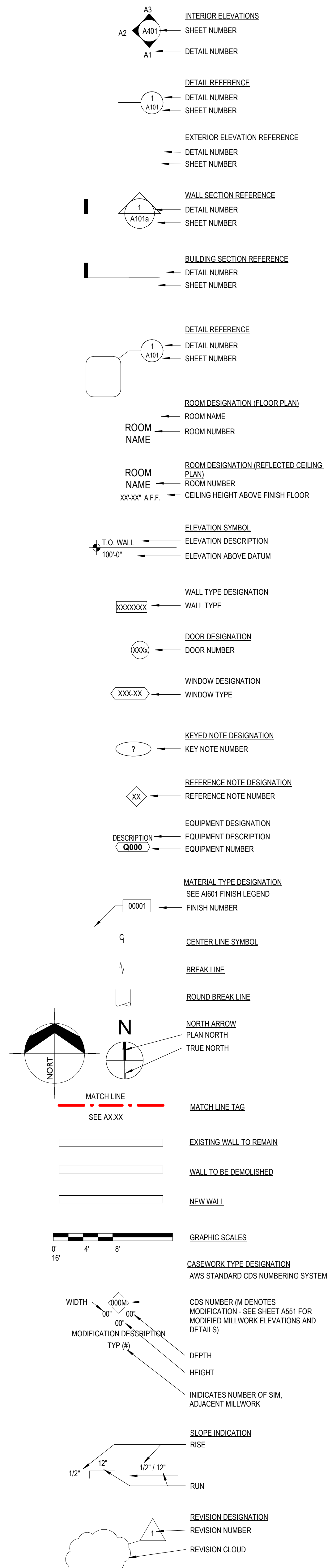
NOT TO SCALE

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SYMBOLS:



ABBREVIATIONS:

#	NUMBER OR POUND	JAN	JANITOR
∅	DIAMETER	JST	JOIST
∠	ANGLE	JT	JOINT
@	AT	LAB	LABORATORY
&	AND	LAM	LAMINATE
CL	CENTERLINE	LAV	LAVATORY
AB	ANCHOR BOLT	LVT	LUXURY VINYL TILE
ACP	ACOUSTICAL CEILING PANEL	LWT	LOWER WALL GUARD
ACT	ACOUSTICAL TILE	MAT	MATERIAL
ADJ	ADJUSTABLE	MAX	MAXIMUM
AFF	ABOVE FINISH FLOOR	MCB	METAL COVE BASE
ALUM	ALUMINUM	MECH	MECHANICAL
ANOD	ANODIZED	MET	METAL
APPROX	APPROXIMATE	MFR	MANUFACTURER
ASFP	ABRASIVE SURFACE FLOOR PLATE	MIN	MINIMUM
ASSOC	ASSOCIATED	MISC	MISCELLANEOUS
AWP	ACOUSTICAL WALL PANEL	ML	MEASURING LINE
AWS	ACOUSTICAL WALL SYSTEM	MO	MASONRY OPENING
BD	BOARD	MTD	MOUNTED
BFC	BROOM FINISH CONCRETE	MTG	MOUNTING
BLDG	BUILDING	NA	NOT APPLICABLE
BLKG	BLOCKING	NB	NO BASE EXPOSED
BM	BEAM	NC	NEW CONCRETE
BO	BOTTOM OF	NIC	NOT IN CONTRACT
BOT	BOTTOM	NM	NEW MASONRY
BRG	BEARING	NO	NUMBER
BSMT	BASEMENT	NOM	NOMINAL
BTWN	BETWEEN	NTS	NOT TO SCALE
CAB	CABINET	OC	ON CENTER
C.I.P.	CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	OFF	OFFICE
CL	CENTERLINE	OFI	OWNER FURNISHED
CLG	CEILING	OCI	CONTRACTOR INSTALLED
CMU	CONCRETE MASONRY UNITS	COL	OWNER FURNISHED
CO	CLEAN OUT	OFOI	OWNER INSTALLED
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OTA	OPEN TO ABOVE
CONST	CONSTRUCT	OTS	OPEN TO STRUCTURE
CONT	CONTINUOUS	OVF	OVERFLOW
CPT	CARPET	P	PAINT
CSK	COUNTERSINK	PC	PAINT COLOR
CMT	CERAMIC MOSAIC TILE	PFT	PORCELAIN FLOOR TILE
COT	CERAMIC QUARRY TILE	P.I.V.	POST INDICATOR VALVE
CWB	CERAMIC WALL BASE	PL	PLASTIC LAMINATE
DBL	DOUBLE	PLAST	PLASTIC
DEPT	DEPARTMENT	PLYWD	PLYWOOD
DT	DETAIL	POLY	POLY-RESINUS FLOORING
DF	DRINKING FOUNTAIN	PR	PORCELAIN WALL TILE
DIA	DIAMETER	PWT	PORCELAIN WALL TILE
DM	DIMENSION	R	THERMAL RESISTANCE
DN	DOWN	RCP	REFLECTED CEILING PLAN
DS	DOWNSPOUT	RD	ROOF DRAIN
EA	EACH	REL	RAIN DRAIN LEADER
EBT	EXPANSION BASE TRIM	RE:	REFERENCE
EJ	EXPANSION JOINT	REFRIG	REFRIGERATOR
ELEC	ELECTRICAL	REINCR	REINFORCING
ELEV	ELEVATION	REQ	REQUIRED
EP	EPOXY PAINT	RFT	RUBBER FLOOR TILE
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RMA	RESILIENT MOLDING ACC
ESTR	EXPOSED STRUCTURE (NEW OR EXISTING)	RO	ROUGH OPENING
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	RST	RUBBER STAIR TREADS
EPOXY	EPOXY FLOOR SYSTEM	RSV	RIGID SHEET VINYL
EXIST	EXISTING	RUB	RUBBER SHEET FLOORING
EXP	EXPANSION	RW	REDWOOD
EXT	EXTERIOR	RWB	RUBBER WALL BASE
FD	FLOOR DRAIN	RWC	RAIN WATER CONDUCTOR
F.D.C.	FIRE DEPARTMENT CONNECTION	SC	SEALED CONCRETE
FB	FIRE BLANKET	SCHED	SCHEDULE
FE	FIRE EXTINGUISHER	SCW	SOLID CORE WOOD
FF	FACTORY FINISH	SGWB	SUSPENDED GYPSUM
F.H.	FIRE HYDRANT	SHT	WALL BOARD
FIN	FINISH	SHEET	SHEET
FL	FLOOR LINE	SHTG	SHEATHING
FLR	FLOOR	SM	SIMILAR
FND	FOUNDATION	SPECS	SPECIFICATIONS
FOC	FACE OF CHANNEL	SQ	SQUARE
FOF	FACE OF FINISH	SS	STAINLESS STEEL
FOS	FACE OF STUDS	SSC	STAINLESS STEEL COUNTERTOP
FPP	FIBER REINFORCED PANEL	STD	STANDARD
FT	FEET	STL	STEEL
FTG	FOOTING	STOR	STORAGE
FV	FIELD VERIFY	STRUC	STRUCTURAL
GA	GAUGE	SUSP	SUSPENDED SHEET VINYL
GALV	GALVANIZED	SV	SHEET VINYL
GB	GYPSUM BOARD	T&G	TONGUE AND GROOVE
GYP BD.	GYPSUM BOARD	TEMP	TEMPORARY
HAS	HEAD ANCHOR STUD	TO	TOP OF
HCW	HOLLOW CORE WOOD	TOM	TOP OF MASONRY
HM	HOLLOW METAL	TS	TUBE STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HW	HARDWOOD	UNG	UPPER WALL GUARD
ICB	INTEGRAL COVE BASE	VAR	VARIABLES
ICMU	INTEGRAL COLORED CONCRETE MASONRY UNITS	VCT	VINYL COMPOSITION TILE
ID	INSIDE DIAMETER	VERT	VERTICAL
INSUL	INSULATION	VEST	VESTIBULE
INT	INTERIOR	W/	WITH
INV	INVERT	WC	WATER CLOSET
		WD	WOOD
		WDP	WOOD PLANKS
		WF	WALL FABRIC
		WH	WATER HEATER
		WM	WALK-OFF MAT
		W/O	WITH OUT
		WP	WATERPROOF
		WRGB	WATER RESISTANT GYPSUM BOARD
		WS	WINDOW SHADE
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

MASTER KEYNOTES:

Keynote #	Keynote Text
03000 A	CAST-IN-PLACE CONCRETE.
06100 A	DIMENSIONAL LUMBER
06100 C	SHEATHING
06100 D	SHM AS REQUIRED
06202 A	WOOD TRIM PAINT TO MATCH EXISTING.
07200 A	WEATHER RESISTIVE BARRIER
07200 C	SELF ADHERED FLEXIBLE FLASHING
07200 E	LAP SELF ADHERED FLEXIBLE FLASHING OVER EXISTING AND NEW WEATHER BARRIER
074213 13 A	FORMED METAL WALL PANELS
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 J	FASTENER AND PLATE
075423 K	FLEXIBLE WALKWAY
075423 L	ROOFING MANUFACTURER'S RECOMMENDED SEALANT
075423 O	MANUFACTURED ROOF PAD
076200 A	PARAPET COPING
076200 E	FLASHING AND DRIP EDGE
076200 G	PROVIDE NEW COUNTERFLASHING IN EXISTING LOCATION
076200 J	DOWNSPOUT
076200 K	OVERFLOW SCUPPER. SEE DETAIL C1/A2 92
076200 L	GUTTER STRAP
076200 M	CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
076200 P	DRIP EDGE
076200 Z	CLEAT
077200 B	ROOF HATCH
077200 H	FALL ARREST ANCHOR
079200 B	JOINT SEALANT
084113 B	ALUMINUM STOREFRONT FRAMING SYSTEM
086200 A	FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY
092900 A	GYPSUM WALL BOARD
092900 F	METAL J BEAD
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.
096813 B	CARPET INFILL TO MATCH EXISTING

DRAWING INDEX:

GENERAL	MECHANICAL	PLUMBING	ELECTRICAL
G0.00	M0.01	P0.01	E0.01
G0.02	M0.02	P1.01	E0.02
	M0.03	F-001	E0.11
	M1.01	F-110	E1.11
	M1.02		E1.12
	M2.11		E2.01
	M3.11		E2.02
	M5.01		E3.01
	MD1.01		E3.02
	MD1.02		E4.01
	MD2.11		ED1.11
			ED1.12
			ED2.01

CODE INFORMATION:

APPLICABLE CODES	HARRISON ELEMENTARY SCHOOL
2017 NATIONAL ELECTRICAL CODE	EXISTING SCHOOL
2017 IDAHO STATE PLUMBING CODE	OCCUPANCY TYPE: E FULLY SPRINKLERED
2018 INTERNATIONAL BUILDING CODE	
2018 INTERNATIONAL FIRE CODE	
2018 INTERNATIONAL EXISTING BUILDING CODE	
2018 INTERNATIONAL ENERGY CONSERVATION CODE	
2018 INTERNATIONAL MECHANICAL CODE	
2018 INTERNATIONAL FUEL GAS CODE	
2009 ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	
1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS	
	OCCUPANT LOAD: UNCHANGED

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HUMMEL ARCHITECTS

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Project:
MORNINGSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
DRAWING INFORMATION

Revisions: △

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

Project No: 24016
 Drawn By: NB
 Checked By: PB
 Date: 01/15/2025

Sheet No:
G0.02

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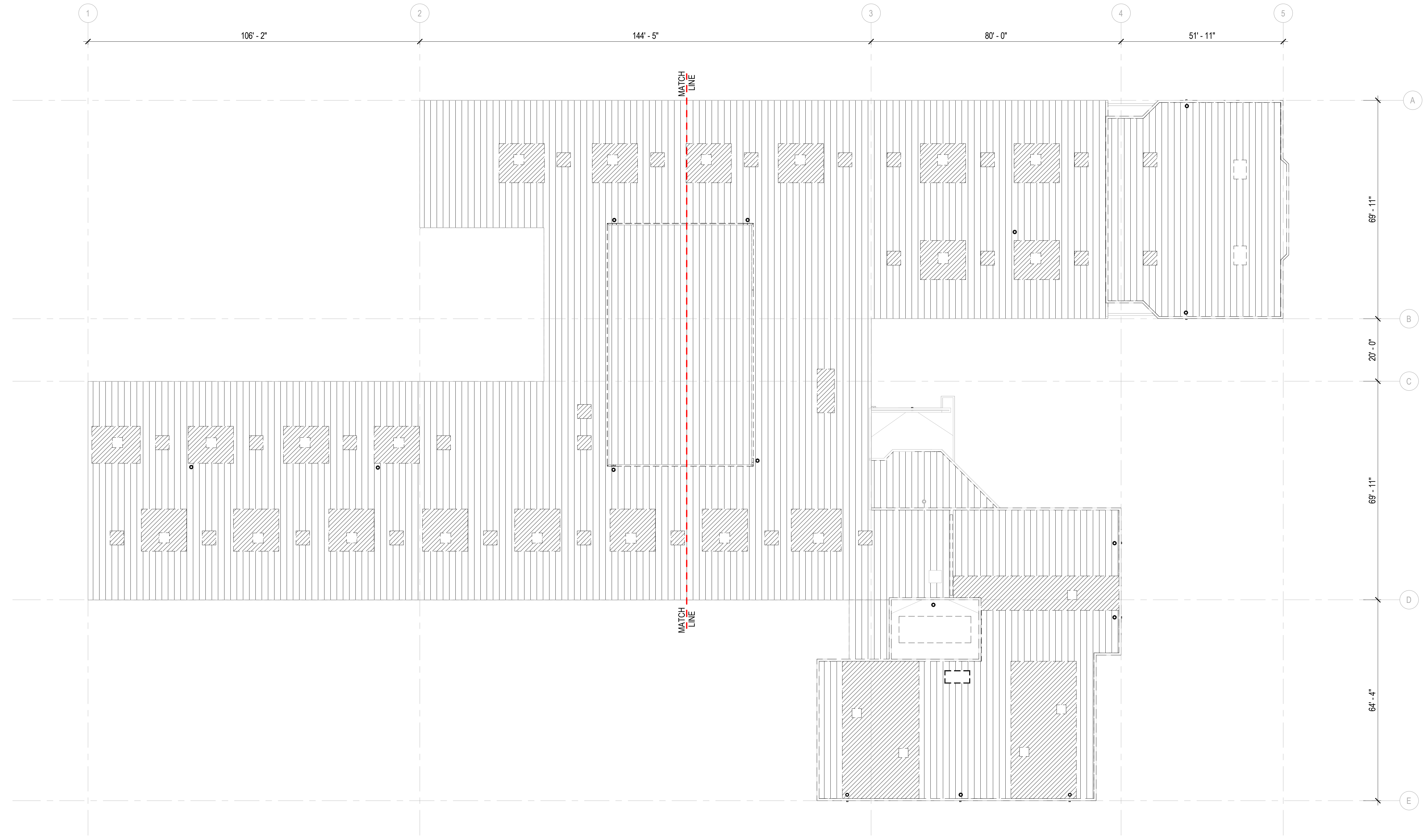
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GENERAL DEMO ROOF PLAN NOTES

- 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.

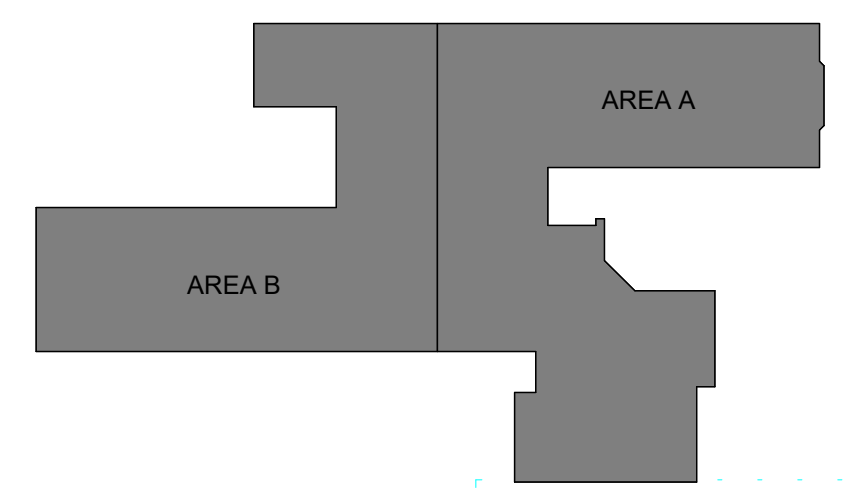
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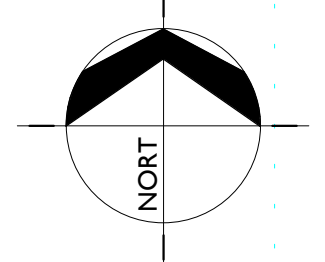
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Sheet:
COMPOSITE DEMO ROOF PLAN

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



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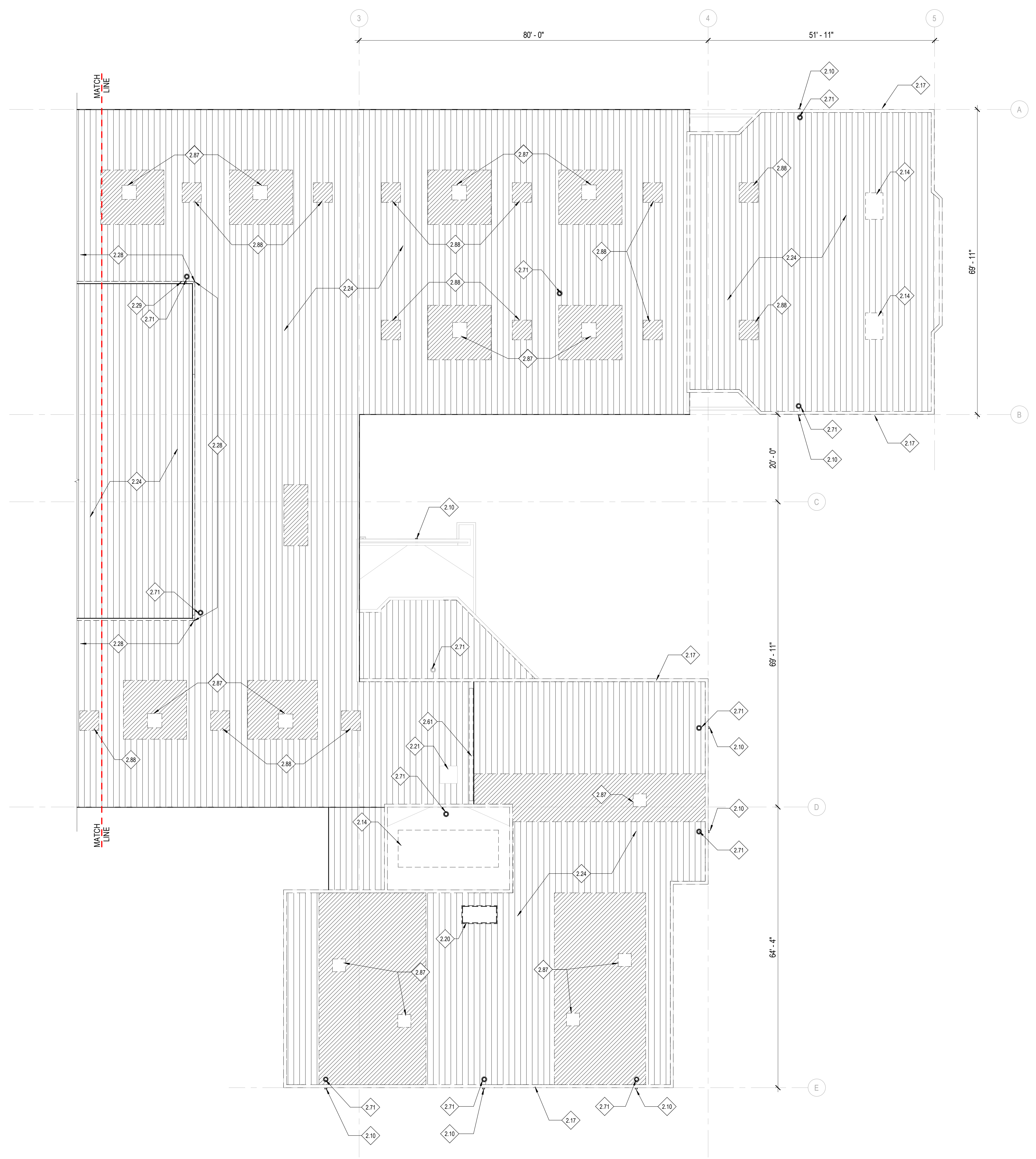
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D2.04

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A B C D E



E1 AREA 'A' DEMO ROOF PLAN
D2.05 3/32" = 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

- 2.10 EXISTING OVERFLOW SCUPPER TO BE REMOVED AND REPLACED IN SAME LOCATION.
- 2.14 EXISTING MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL.
- 2.17 REMOVE EXISTING COPING. PREPARE FOR NEW COPING.
- 2.20 DEMO EXISTING SKYLIGHT. PREPARE FOR INFILL.
- 2.21 DEMO EXISTING ROOF HATCH. PREPARE FOR NEW HATCH.
- 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.
- 2.61 REMOVE EXISTING WINDOW SYSTEM. PROVIDE NEW CLEARSTORY WINDOW. RE SHEET AT 01.
- 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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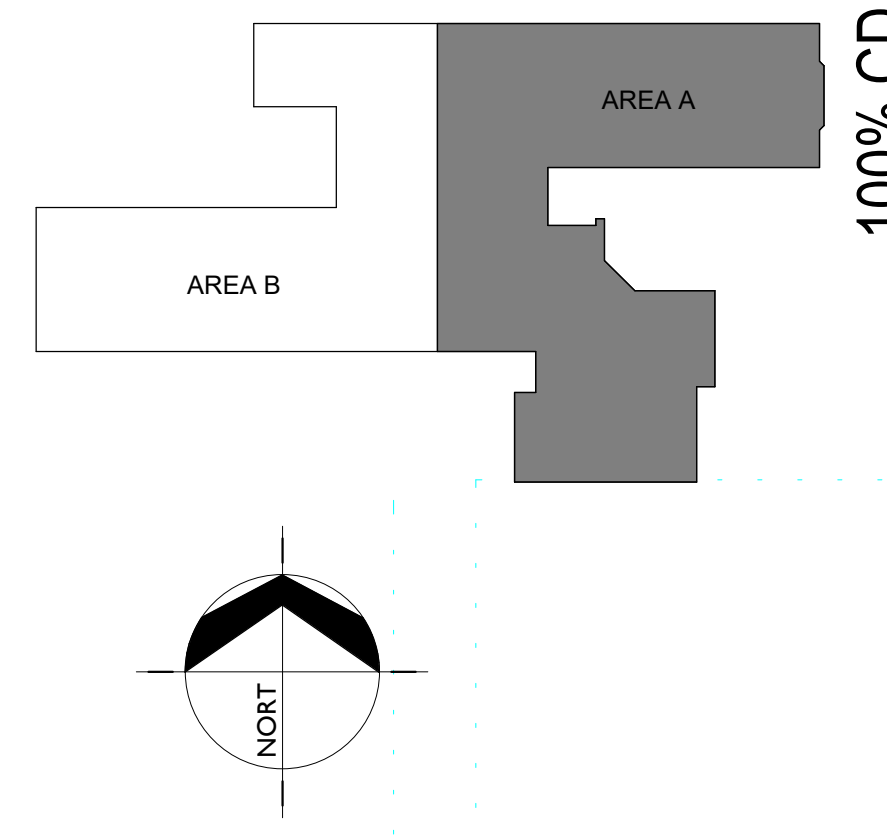
Project:
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 Morningside Elementary School
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Sheet:
AREA 'A' DEMO ROOF PLAN

Revisions:

Project No: 24074
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

Sheet No:
D2.05



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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.

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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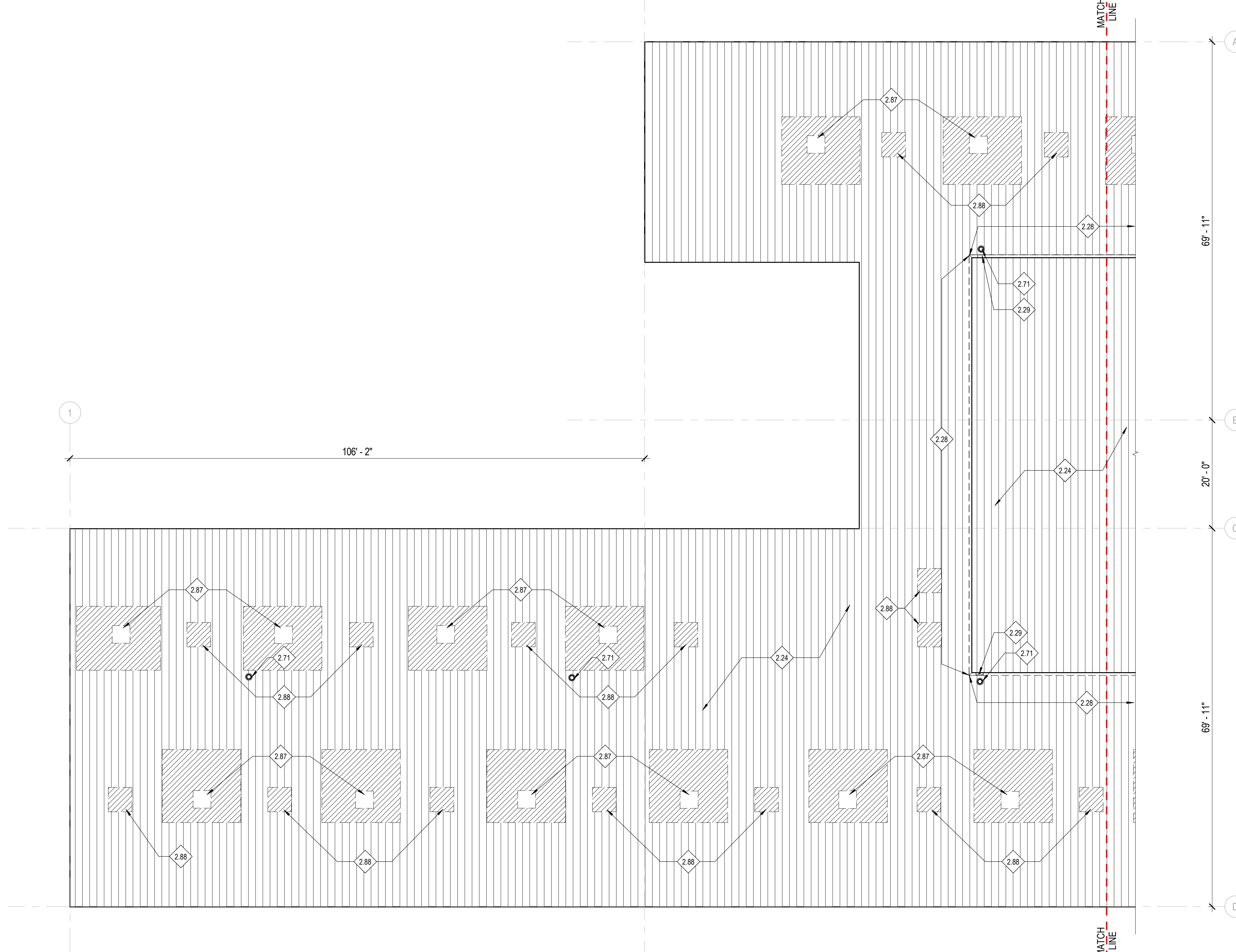
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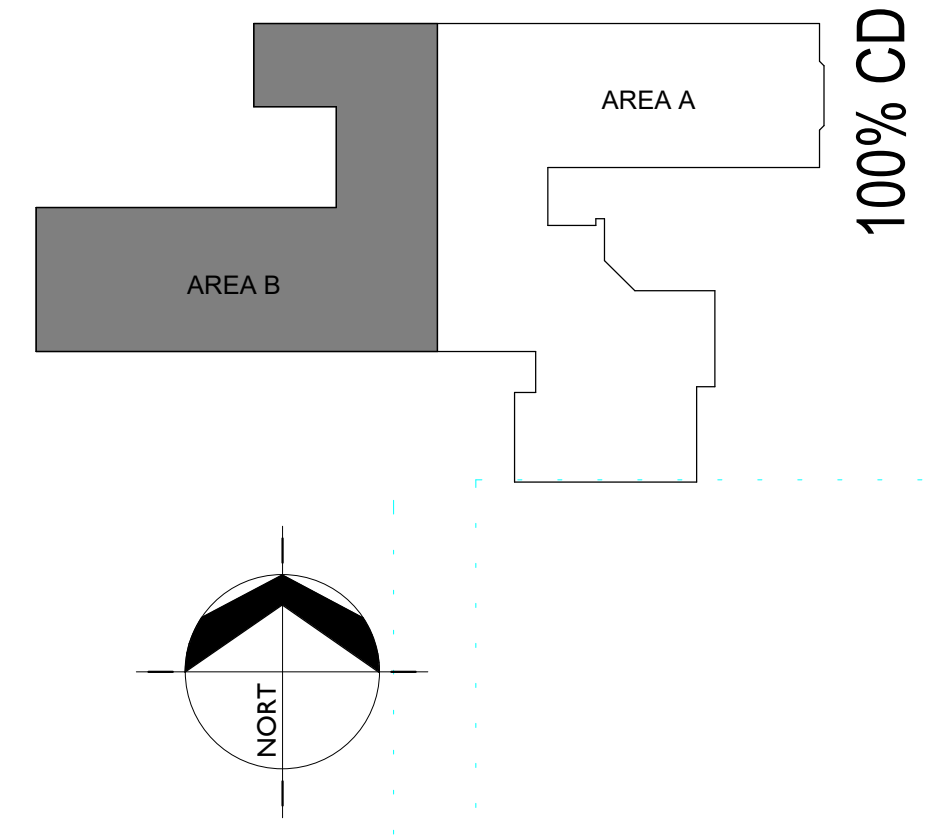
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Project:
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Sheet:
AREA 'B' DEMO ROOF PLAN



D1 AREA 'B' DEMO ROOF PLAN
 D2.06 3/32" = 1'-0"



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Sheet No:
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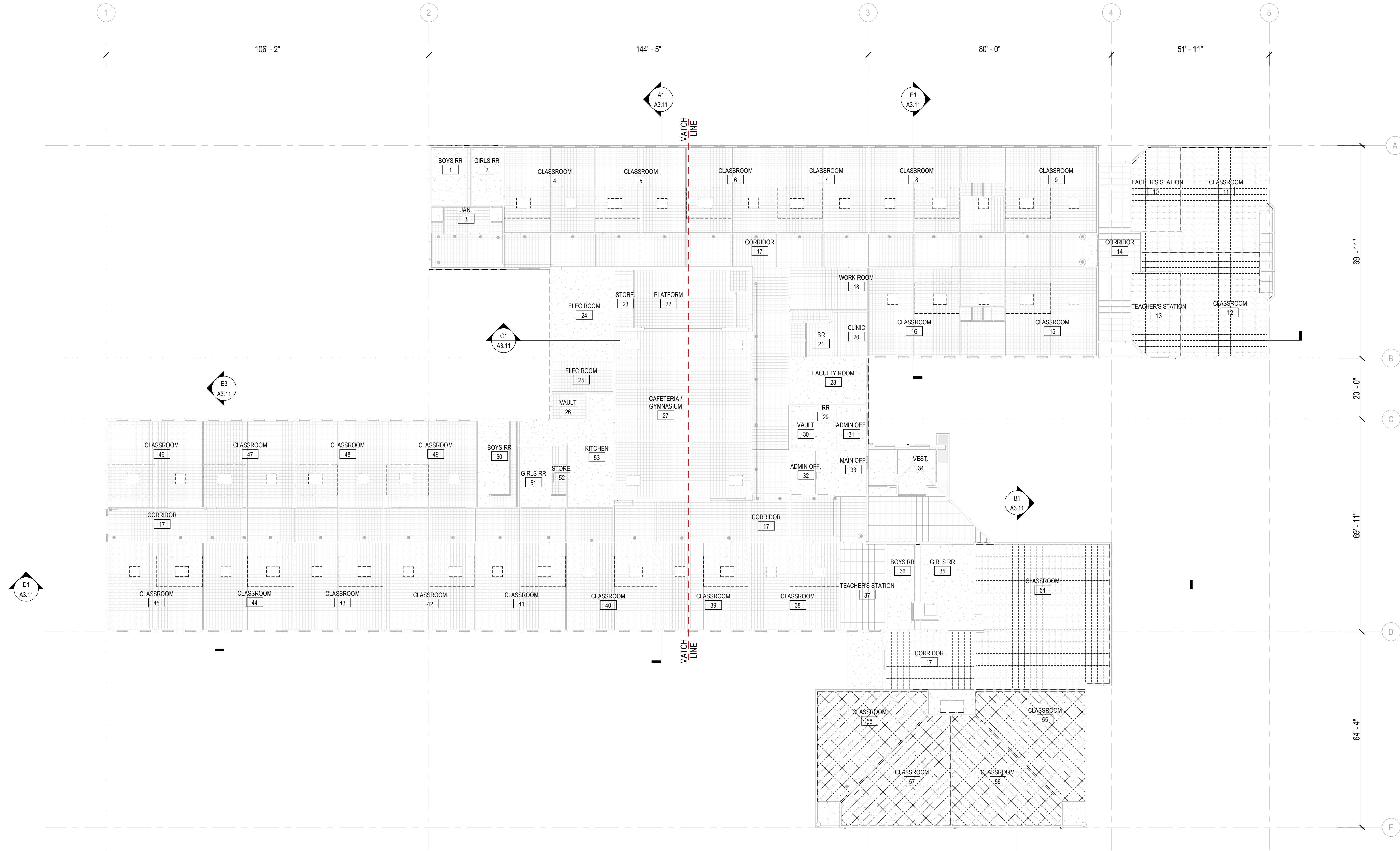
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GENERAL DEMO PLAN NOTES

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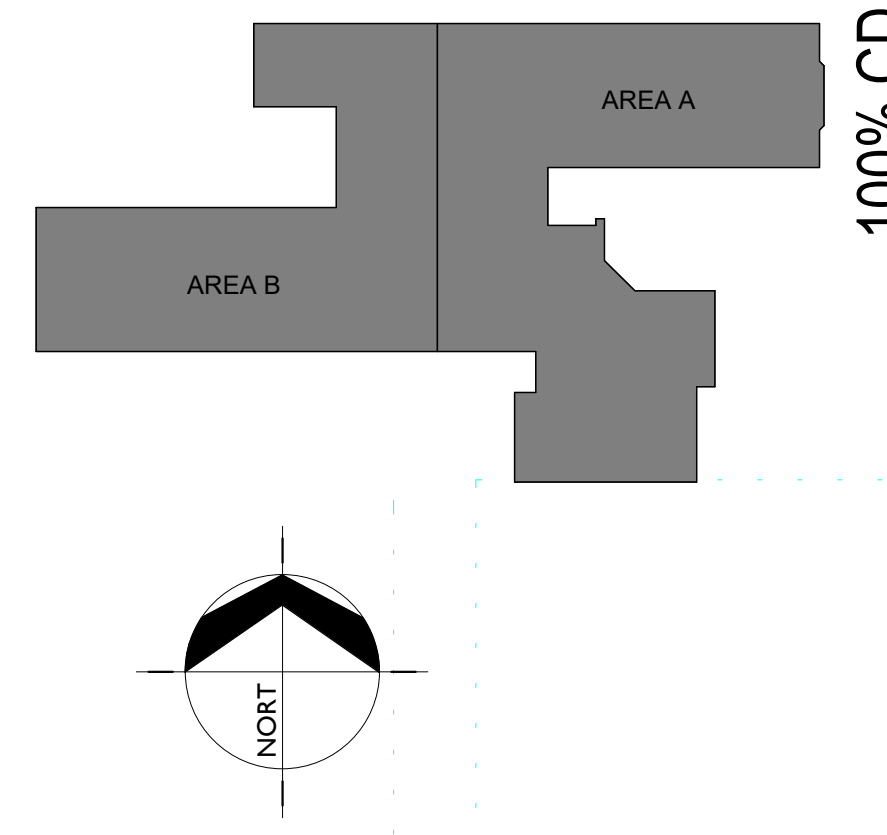
Sheet:
COMPOSITE DEMO REFLECTED CEILING PLAN

Revisions:

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D2.08

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



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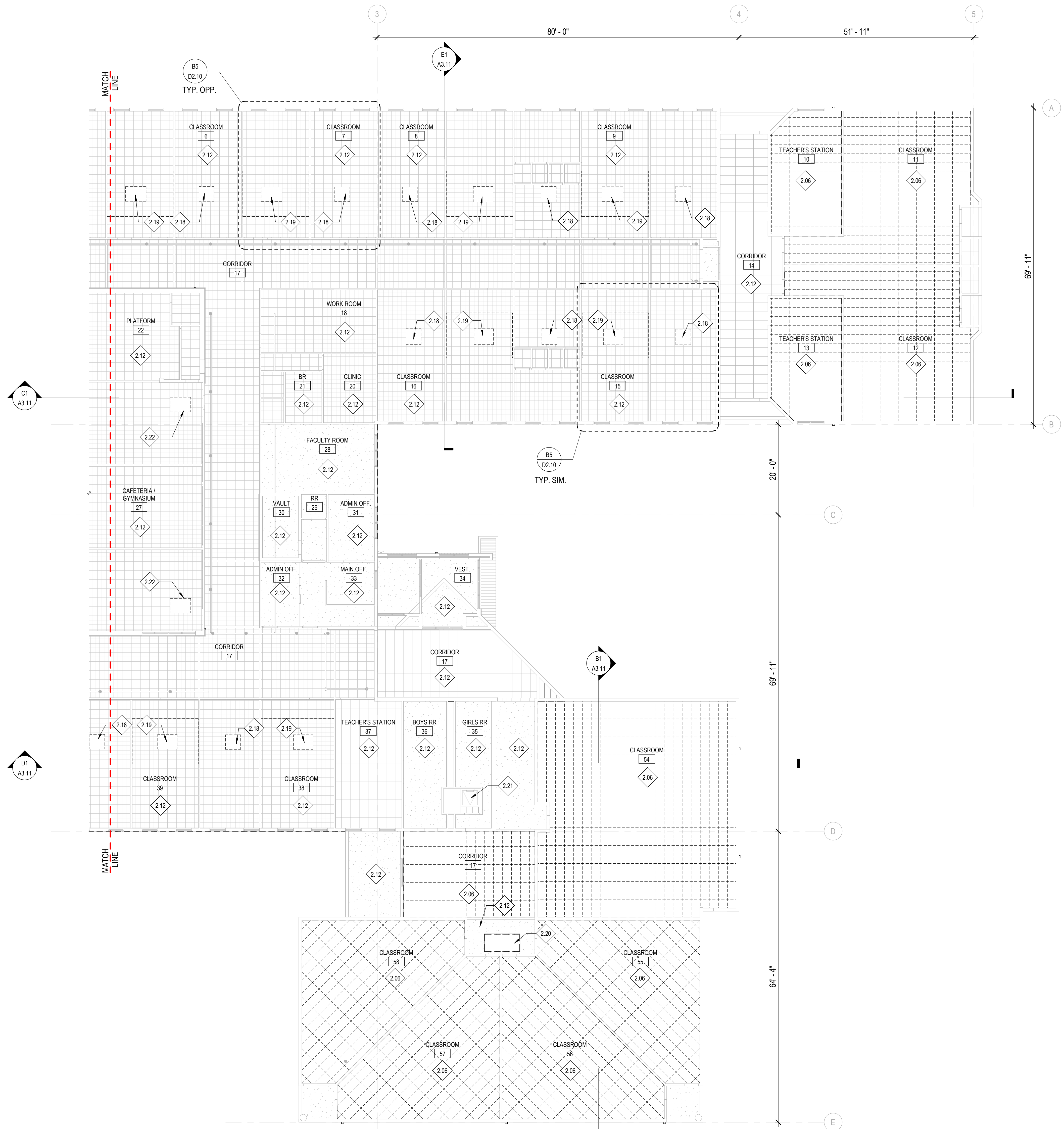
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E1 AREA 'A' DEMO REFLECTED CEILING PLAN
 D2.09 3/32" = 1'-0"

GENERAL DEMO PLAN NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GIB 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, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE. 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 INELL. 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.
- 2.20 DEMO EXISTING SKYLIGHT. PREPARE FOR INFILL.
- 2.21 DEMO EXISTING ROOF HATCH. PREPARE FOR NEW HATCH.
- 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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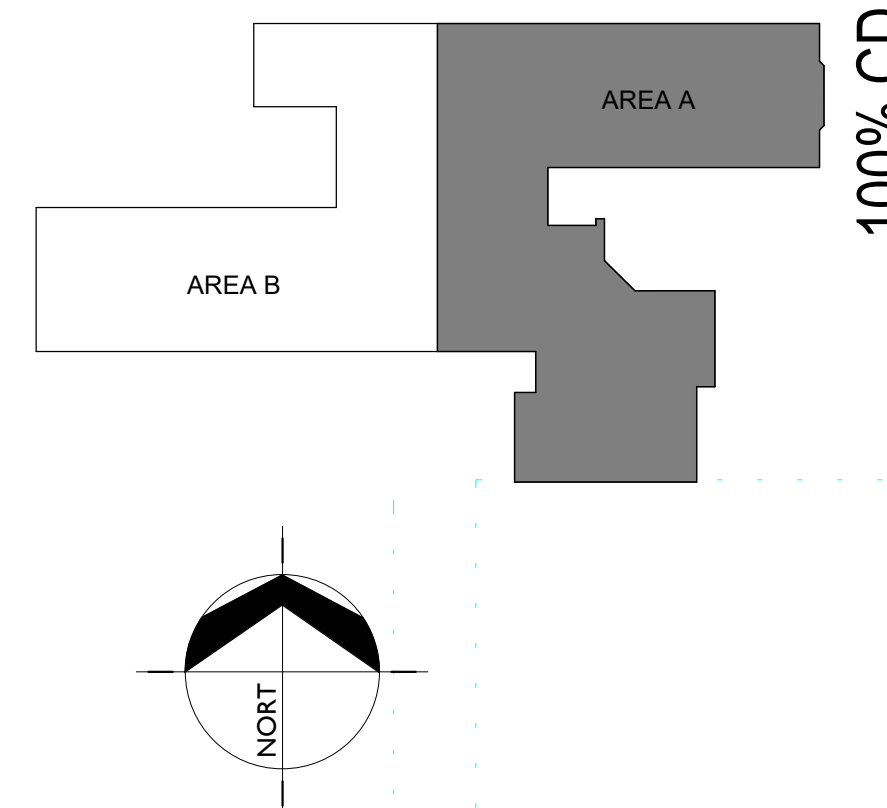
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 Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

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 AREA 'A' DEMO REFLECTED CEILING PLAN

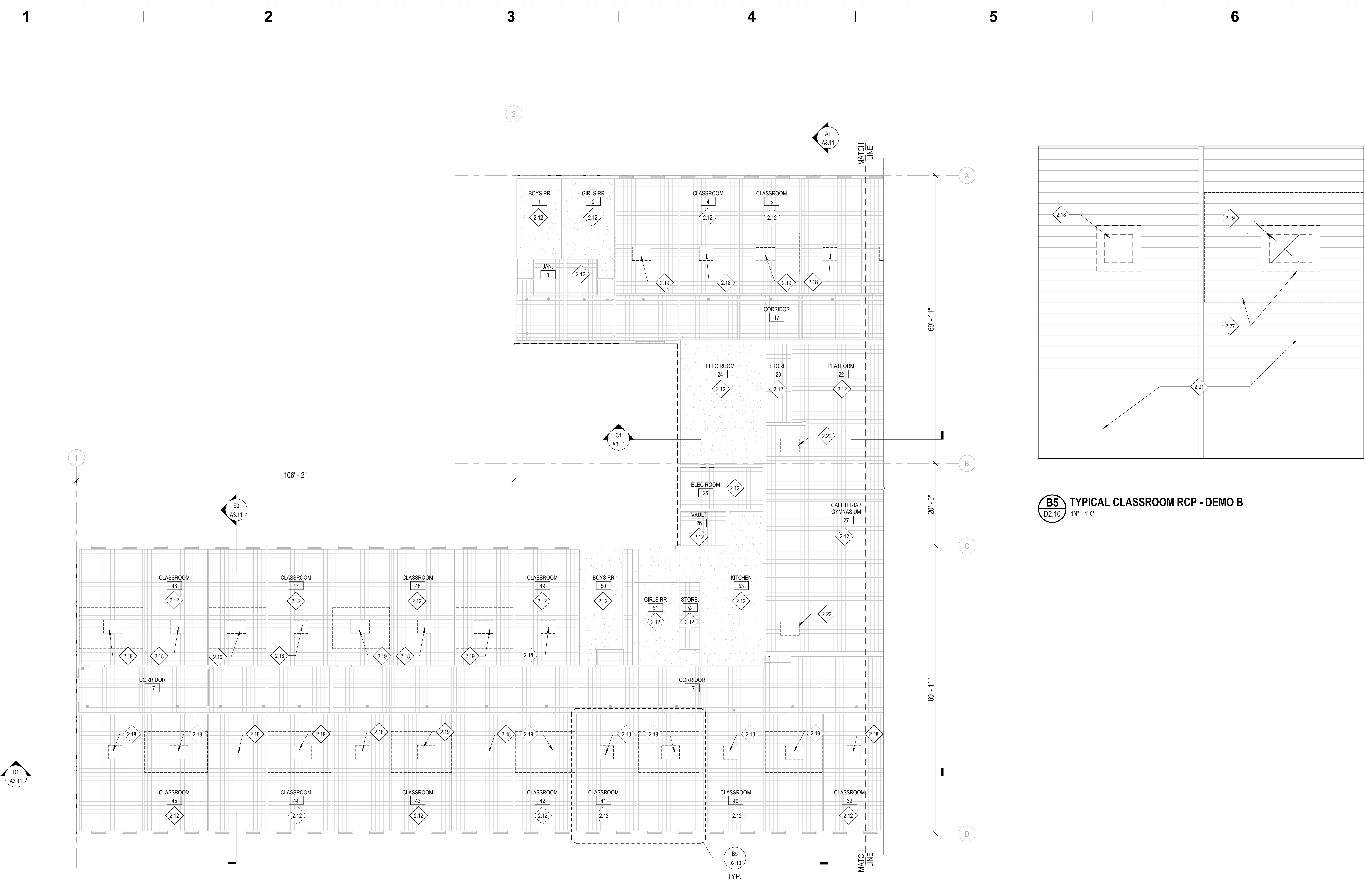
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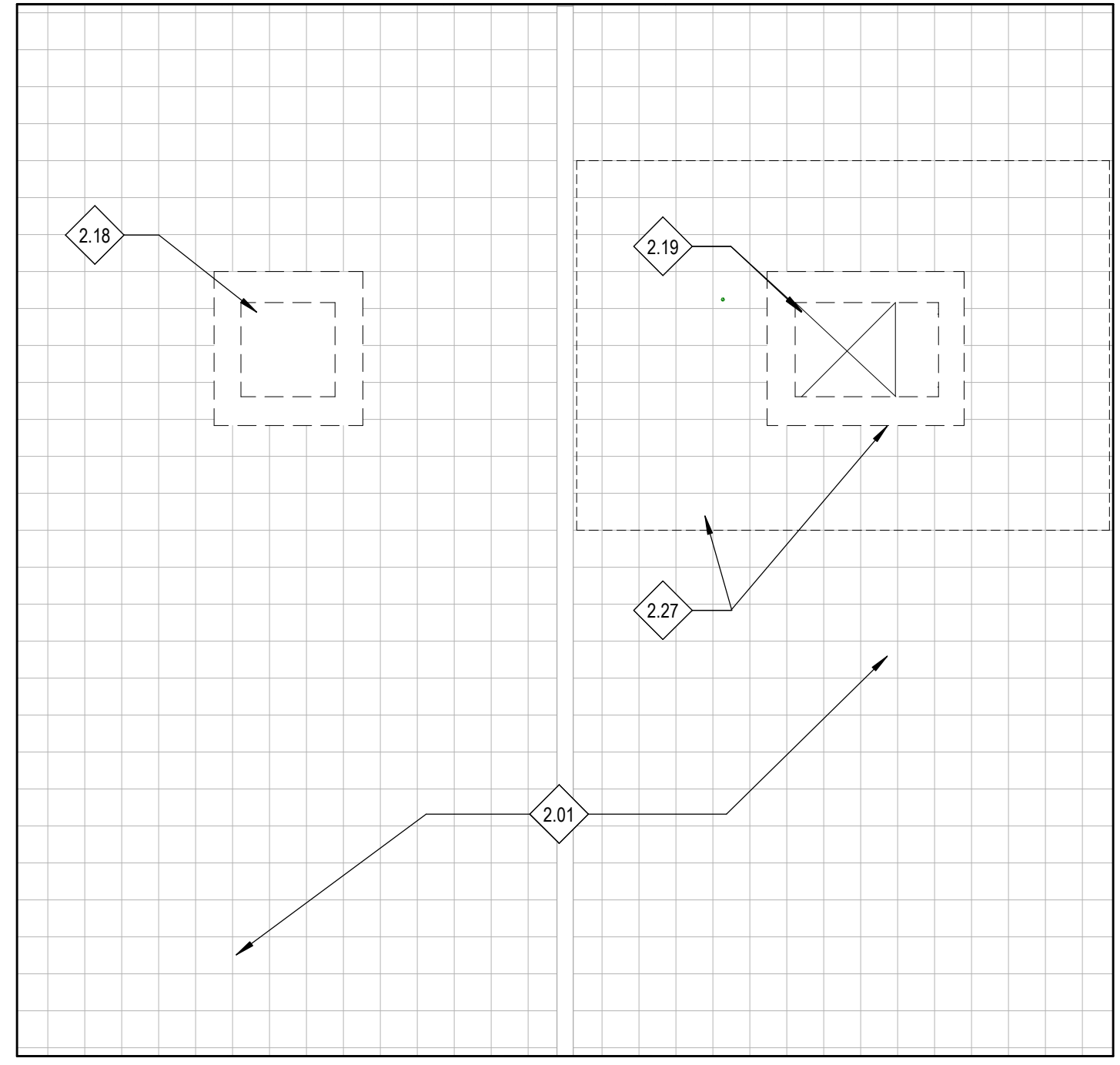
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D1 AREA 'B' DEMO REFLECTED CEILING PLAN
 D2.10 3/32" = 1'-0"



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

GENERAL DEMO PLAN NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GIB 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, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- COORDINATE THE DEMOLITION OF EXISTING CEILING WITH 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 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
- 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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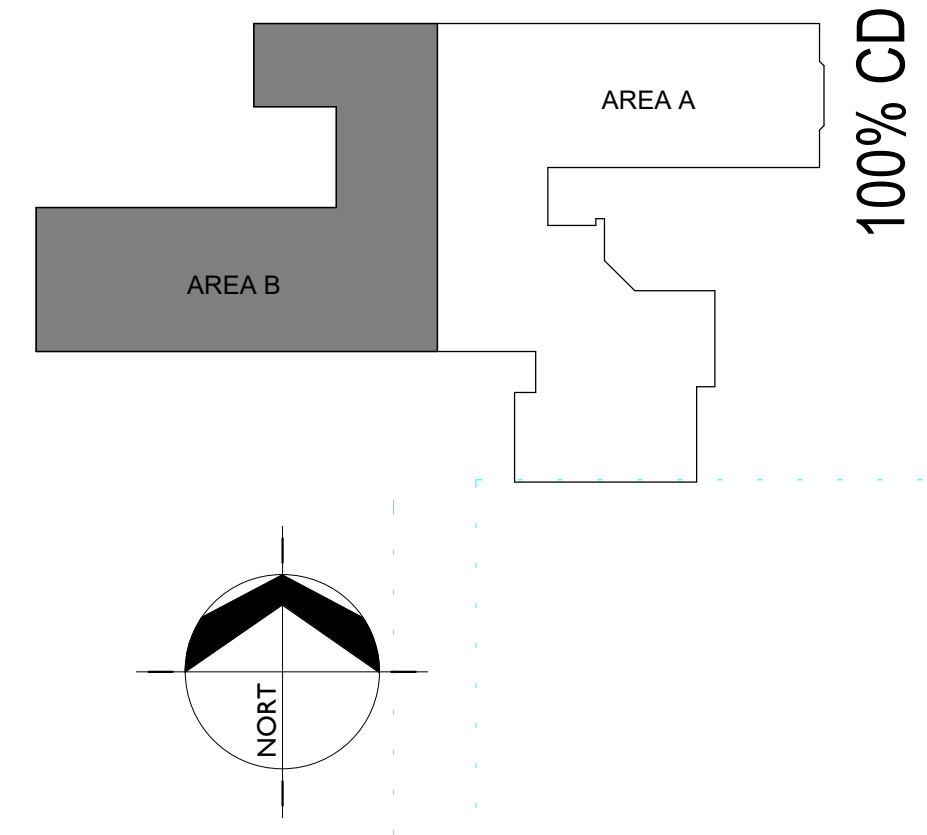
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 AREA 'B' DEMO REFLECTED CEILING PLAN

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 BRIAN F. COLEMAN

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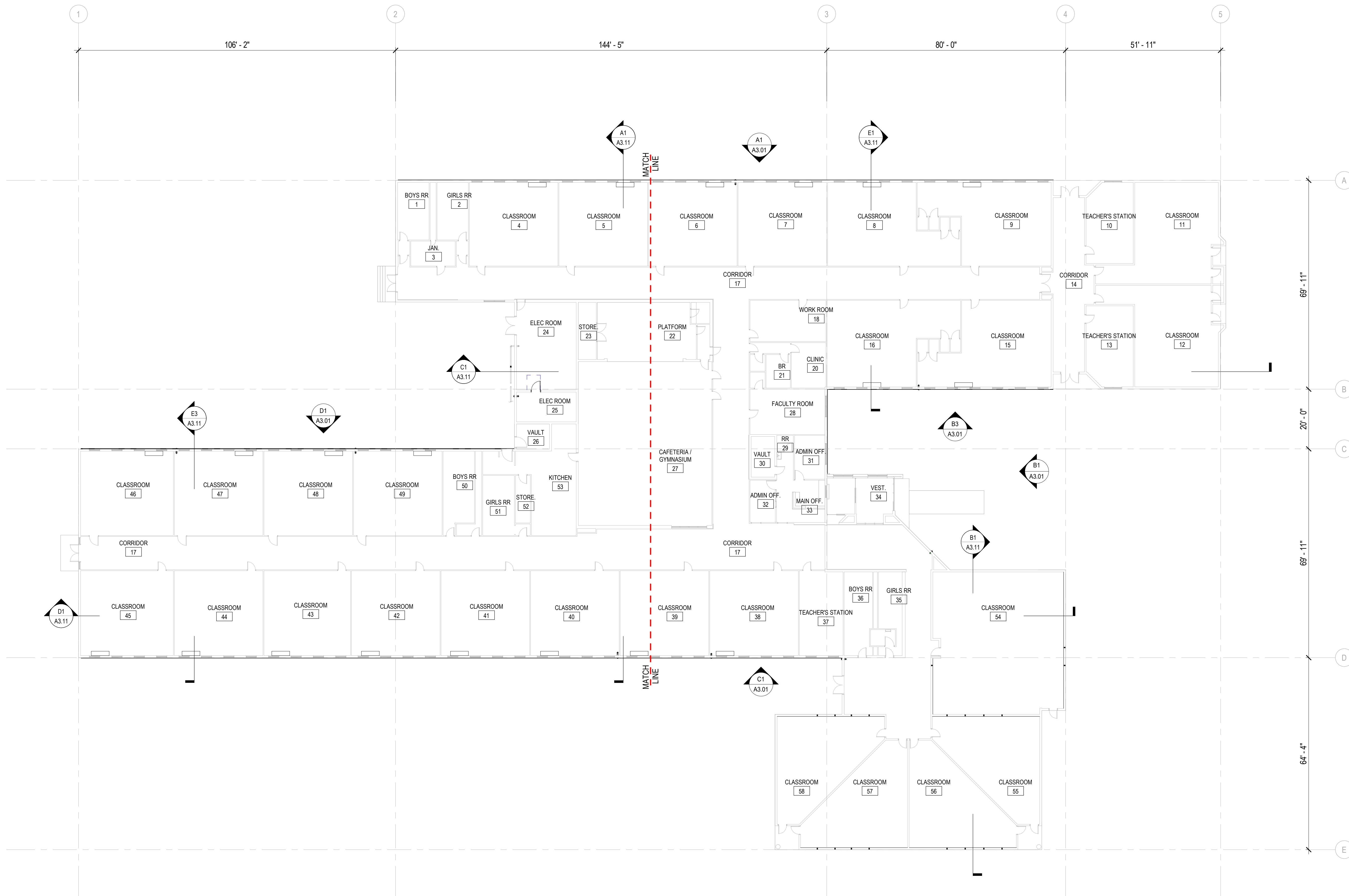
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GENERAL NOTES

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

LEGEND

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

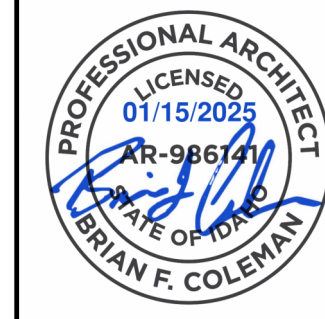
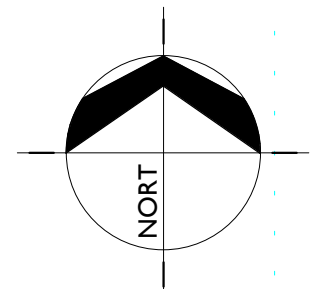
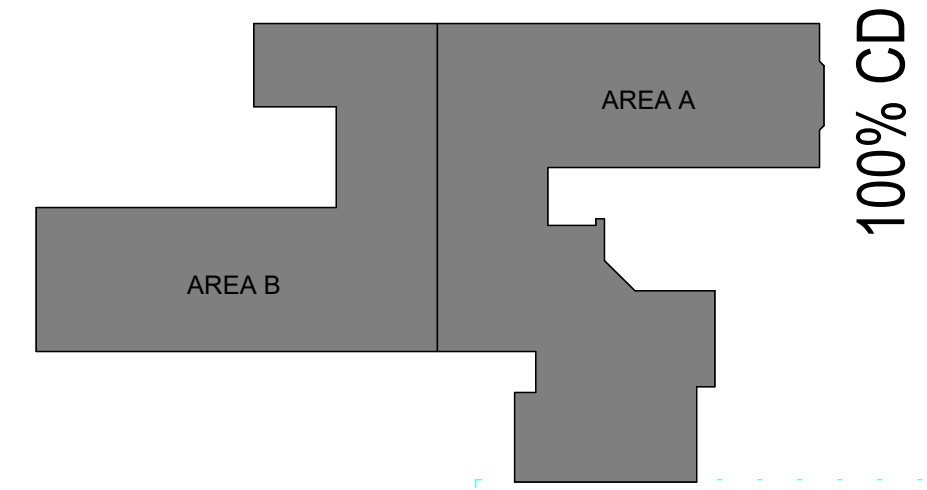
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Sheet:
COMPOSITE FLOOR PLAN

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



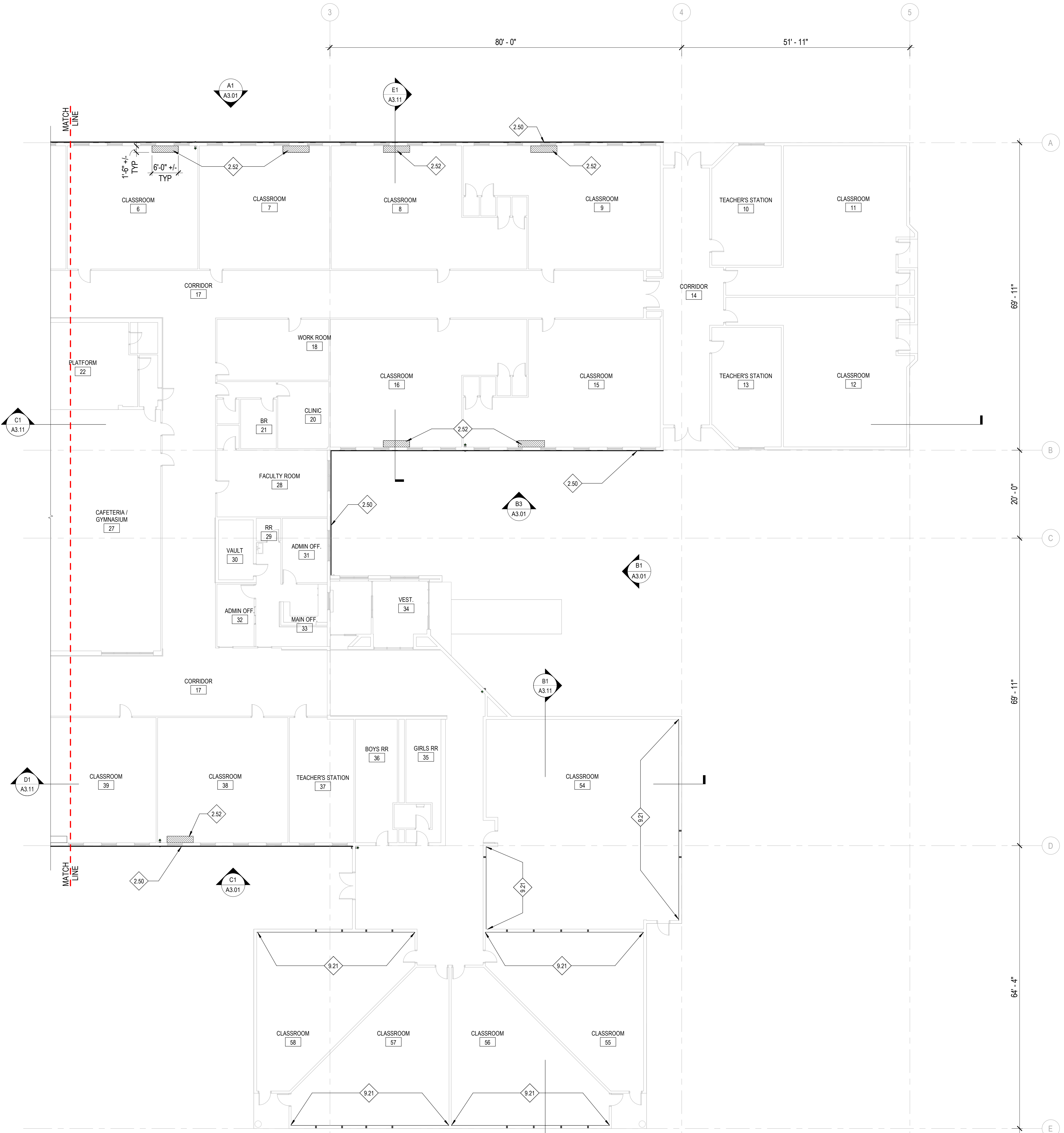
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Project No: 24074
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Sheet No:
A2.01

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

GENERAL NOTES

- A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE-AREA PLANS FOR ADDITIONAL INFORMATION.
- B. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
- C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- D. DO NOT SCALE DRAWINGS.
- E. 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 OPT FROM EQUIPMENT REMOVAL. MATCH EXISTING MATERIALS. PROVIDE NEW RWB CORNER TO CORNER. REFERENCE DETAIL B11/44.91
- 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
- (XXX) DOOR SYMBOL COORDINATE WITH DOOR SCHEDULE

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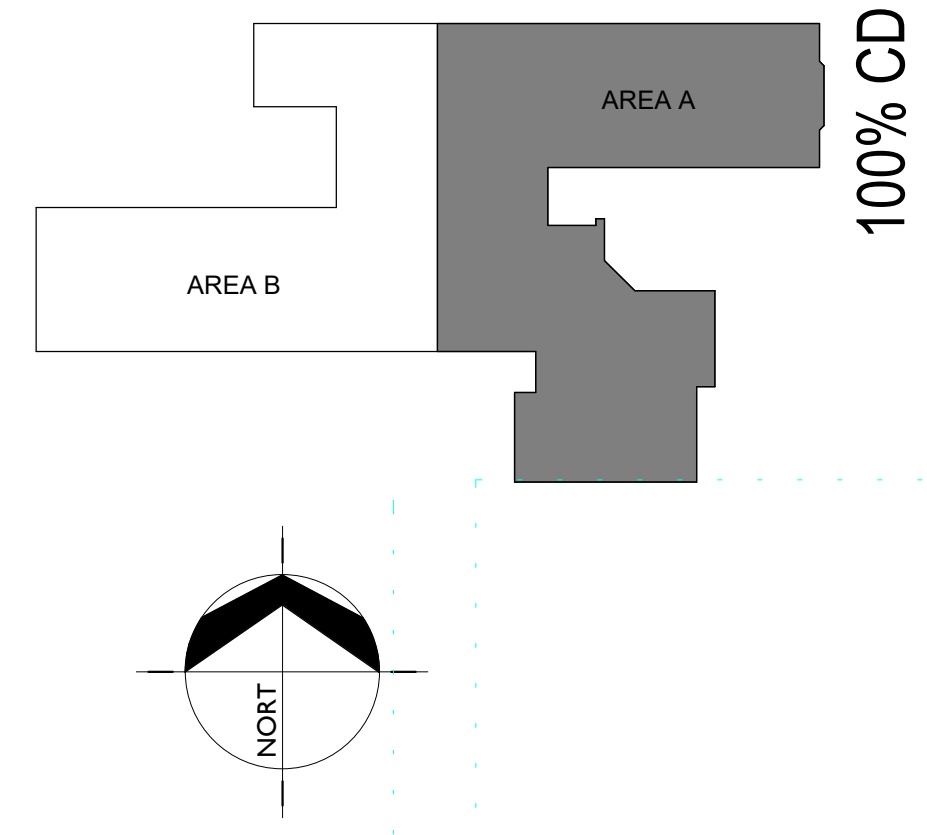
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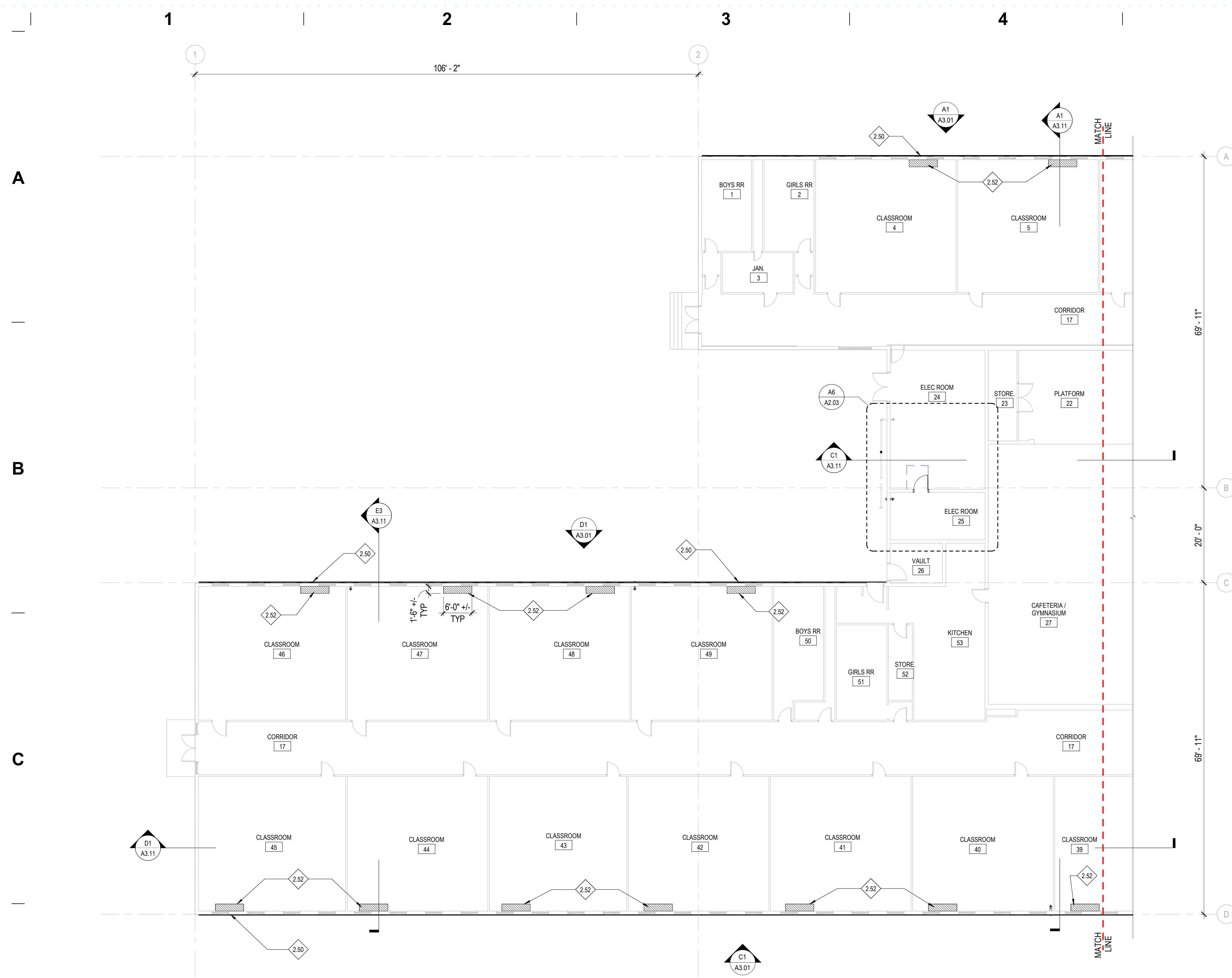
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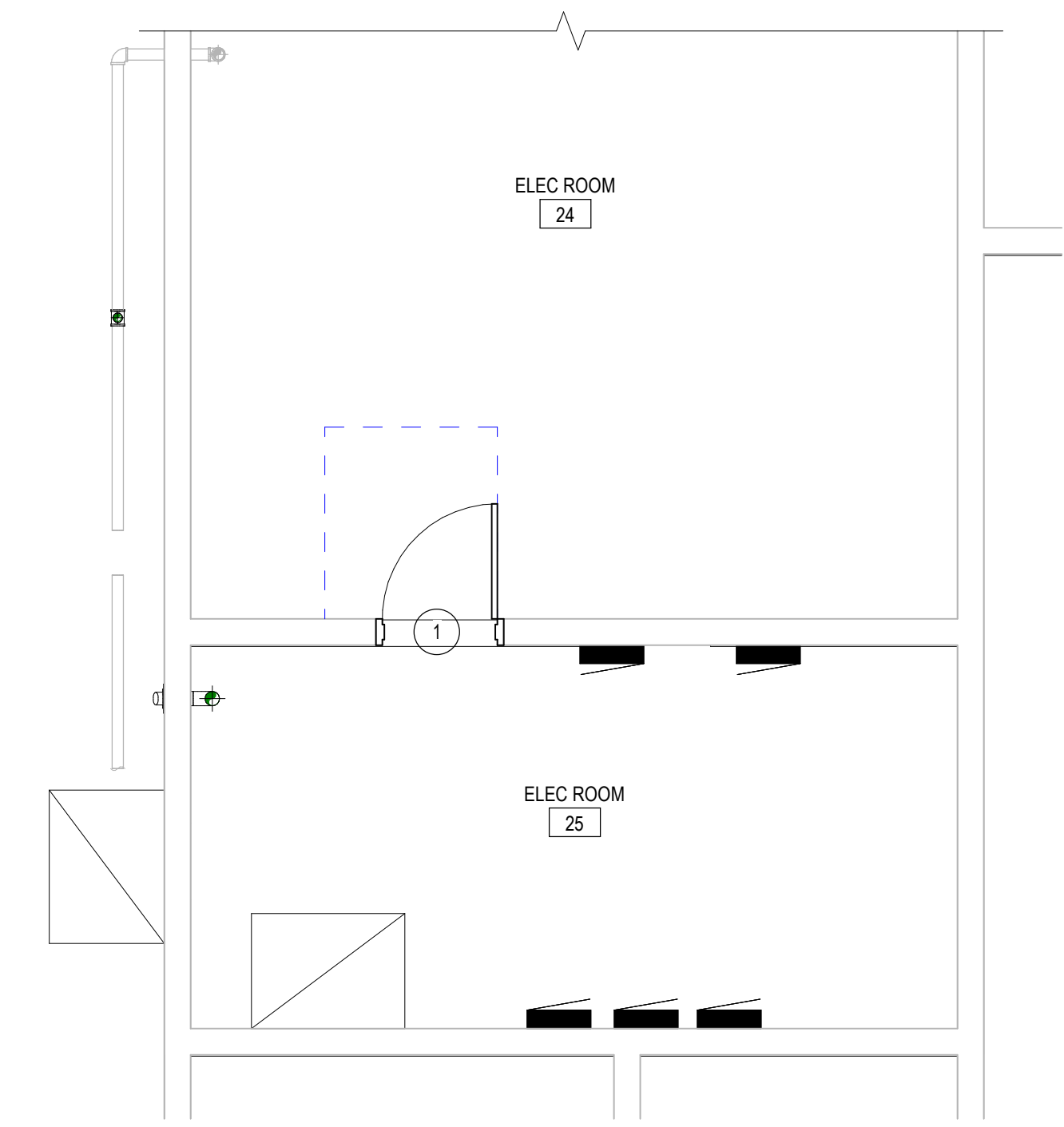
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D1 AREA 'B' FLOOR PLAN
A2.03 3/32" = 1'-0"



A6 FUEL ROOM PLAN ENLARGED
A2.03 1/4" = 1'-0"

GENERAL NOTES	
A.	THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION.
B.	PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
C.	FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
D.	DO NOT SCALE DRAWINGS.
E.	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 OPT FROM EQUIPMENT REMOVAL. MATCH EXISTING MATERIALS. PROVIDE NEW RWB CORNER TO CORNER. REFERENCE DETAIL B1U4.91
LEGEND	
	NEW CONSTRUCTION
	EXISTING WALL
	EXISTING WINDOW
	EXISTING DOOR
	FLOOR INFILL
	MATCH LINE
	DOOR SYMBOL COORDINATE WITH DOOR SCHEDULE

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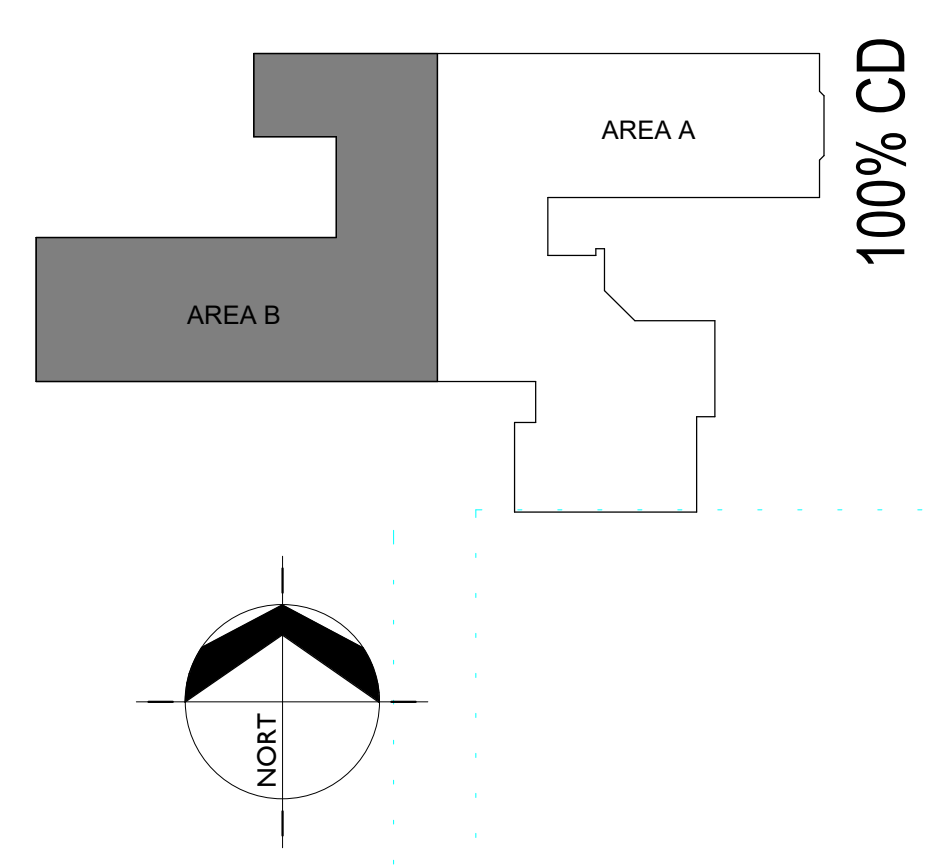
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 AREA 'B' FLOOR PLAN

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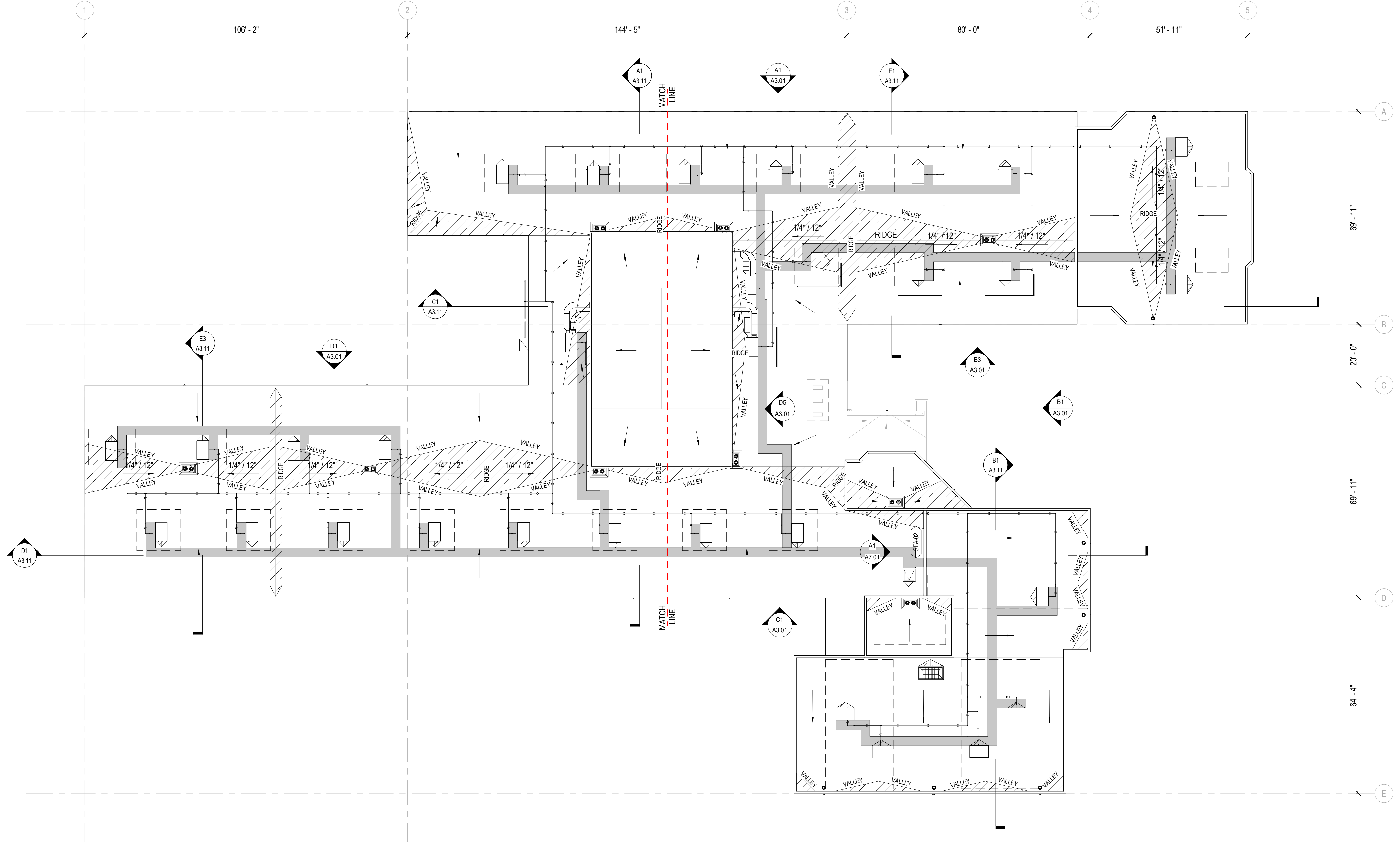
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GENERAL NOTES

- 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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ARCHITECTS

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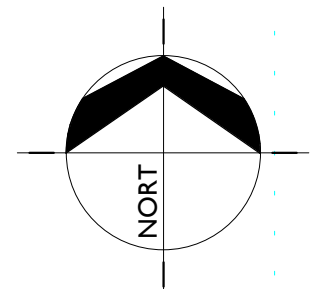
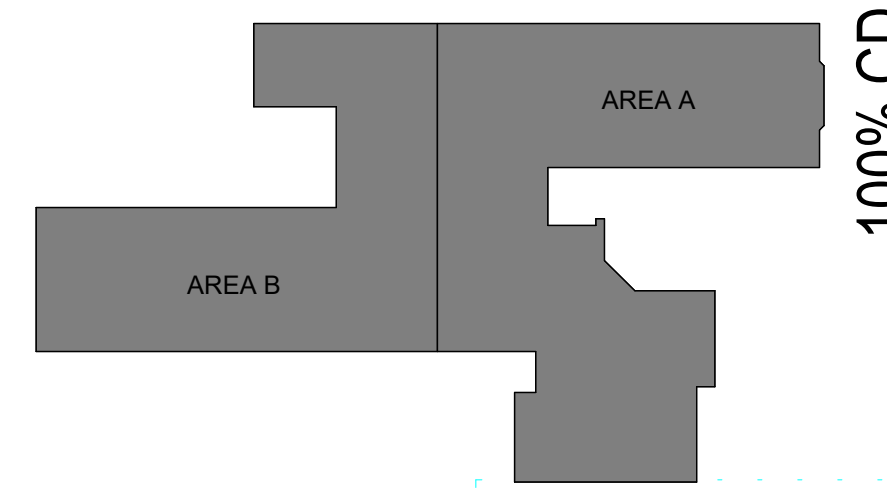
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Twin Falls, ID 83301

Sheet:
COMPOSITE ROOF PLAN

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



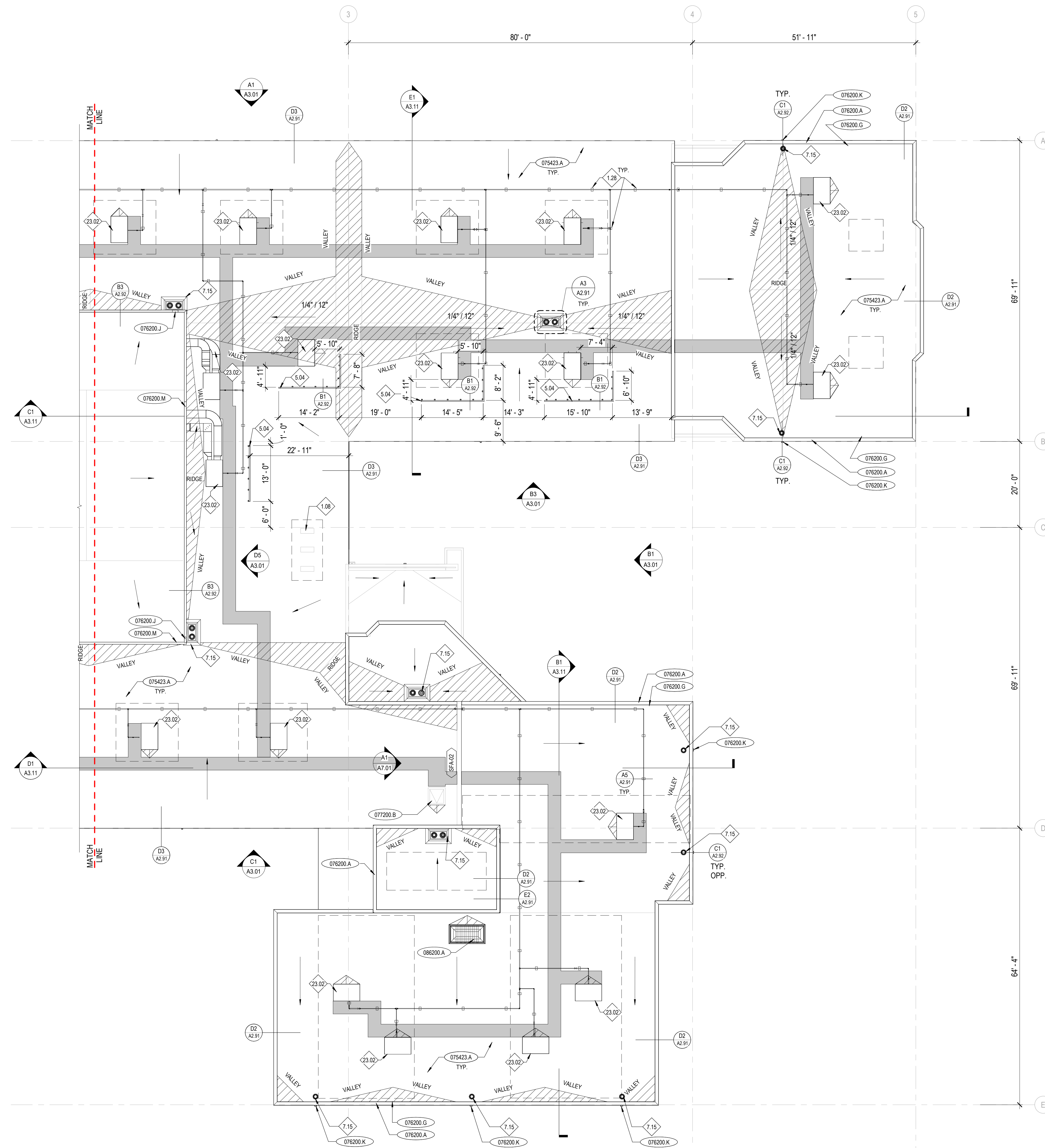
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Date:	01/15/2025

Sheet No:
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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 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 FASCIA GUTTER. TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 077200.B ROOF HATCH
- 086200.A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY

REFERENCE NOTES

- 1.08 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- 1.28 PIPES/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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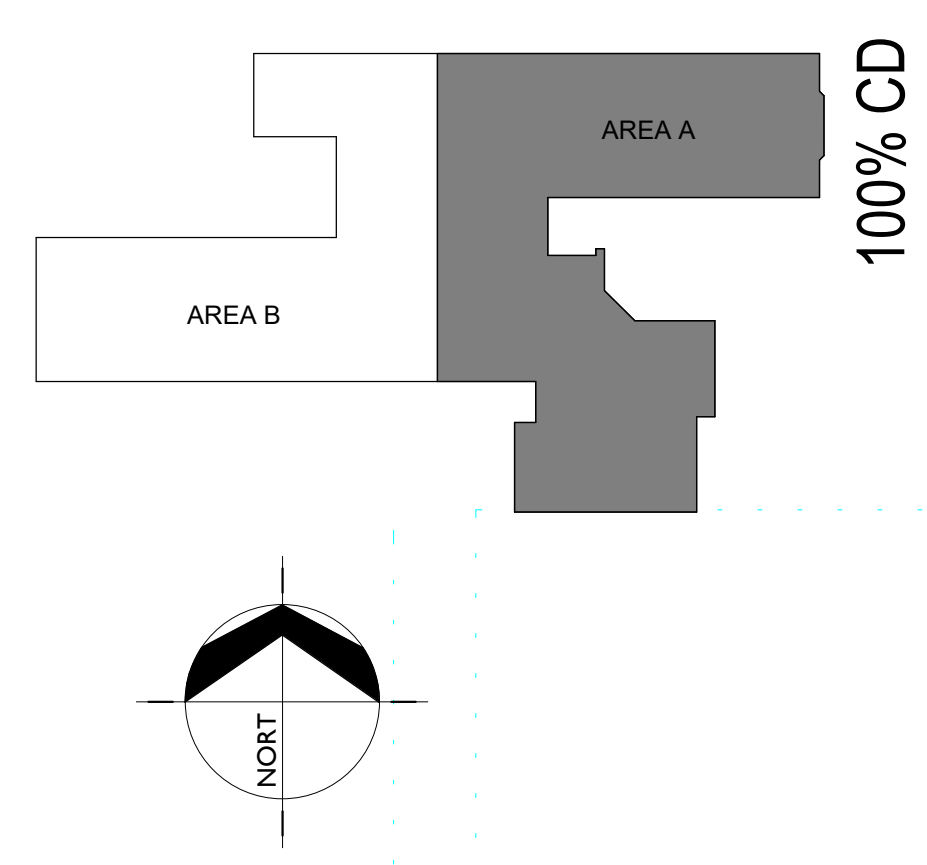
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Sheet:
AREA 'A' ROOF PLAN

Revisions:

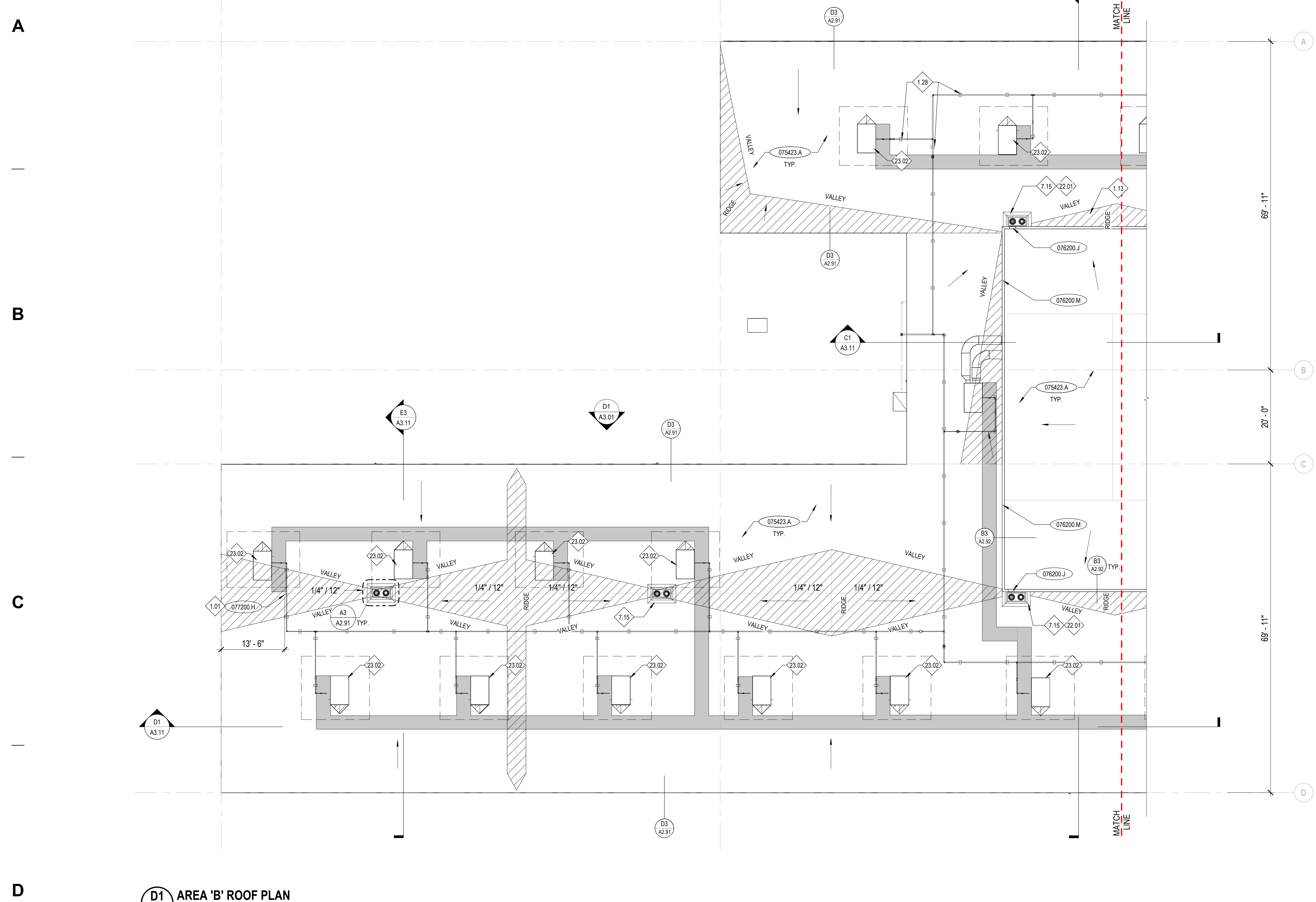
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Sheet No: **A2.13**



E1 AREA 'A' ROOF PLAN
 A2.13 3/62" = 1'-0"

1 2 3 4 5 6



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 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.J DOWNSPOUT
- 076200.M CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.
- 077200.H FALL ARREST ANCHOR

REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 1.13 VERIFY EXISTING SLOPE TAPERED INSULATION SLOPES AND RESLOPE ROOF TO DRAIN.
- 1.28 PIPE/ CONDUIT SUPPORT PADS; COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION.
- 7.15 NEW ROOF DRAIN, COORDINATE WITH PLUMBING DRAWINGS.
- 22.01 COORDINATE WITH PLUMBING DRAWINGS.
- 23.02 NEW MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

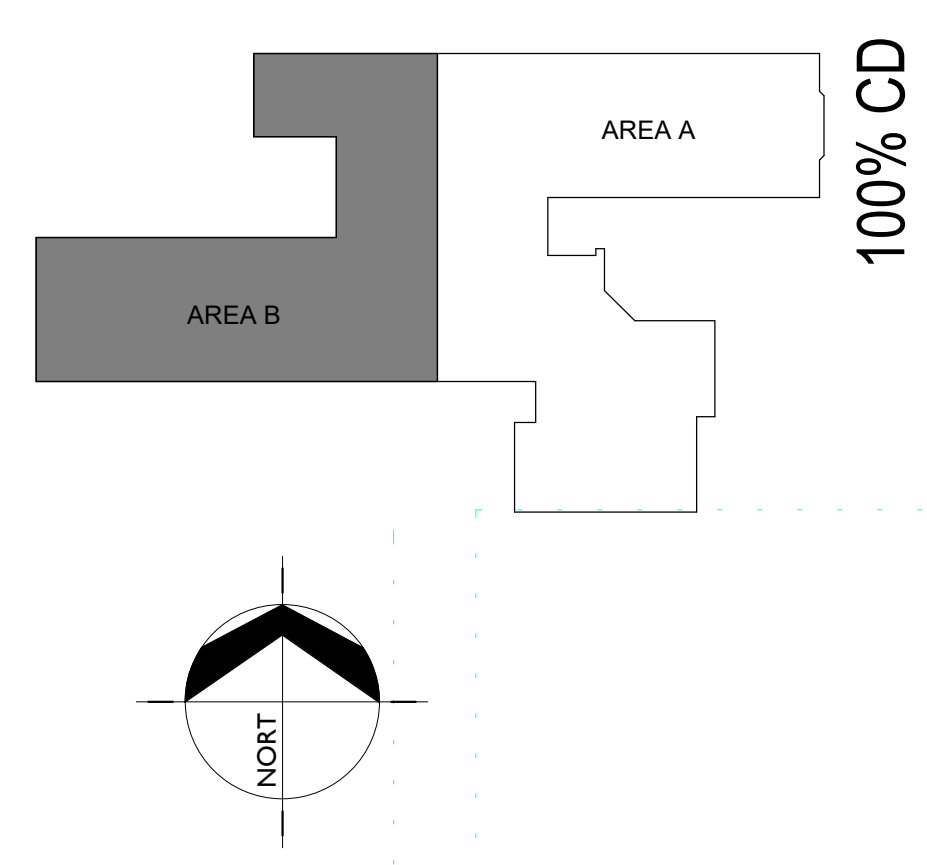
LEGEND

- AREA OF TAPERED INSULATION
- AREA OF STRUCTURAL ROOF FRAMING MODIFICATIONS - SEE STRUCTURAL REPLACE RIGID INSULATION BOARD TO PROVIDE A MINIMUM 2" THICKNESS AND SLOPES INDICATED.
- FLEXIBLE WALKWAY, RE: SPECIFICATION 075423.C
- ROOF DRAIN SUMP
- ROOF HATCH

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MORNINGSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
AREA 'B' ROOF PLAN



Revisions:

Project No: 24014
Drawn By: NB
Checked By: PR
Date: 01/15/2025
Sheet No: **A2.14**

1

2

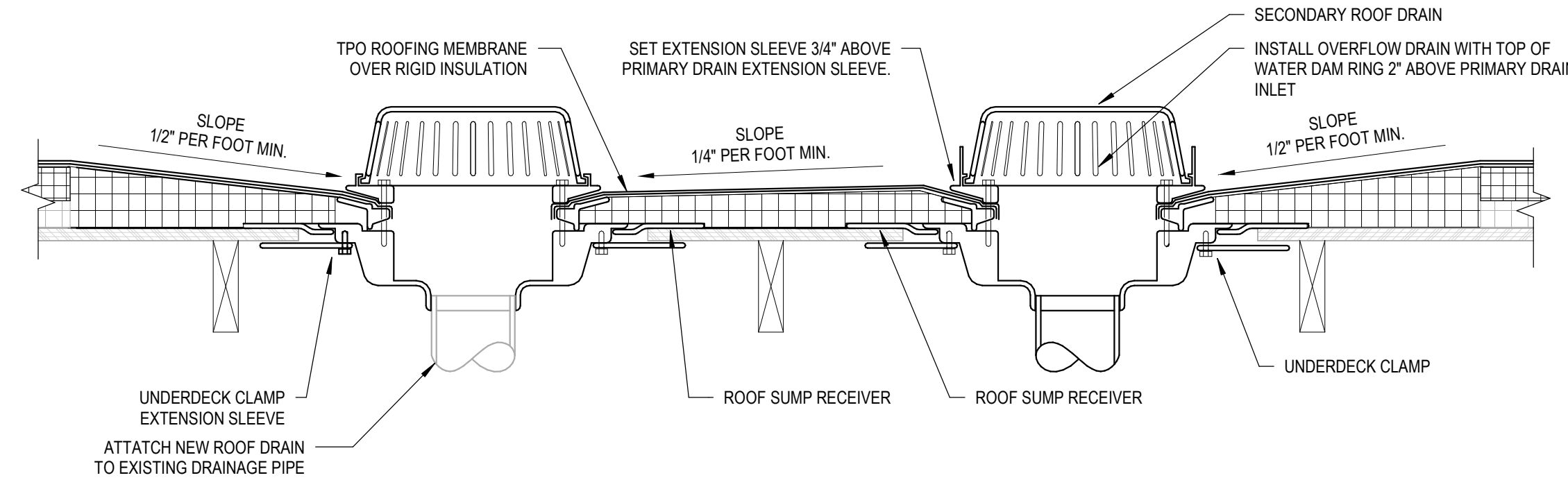
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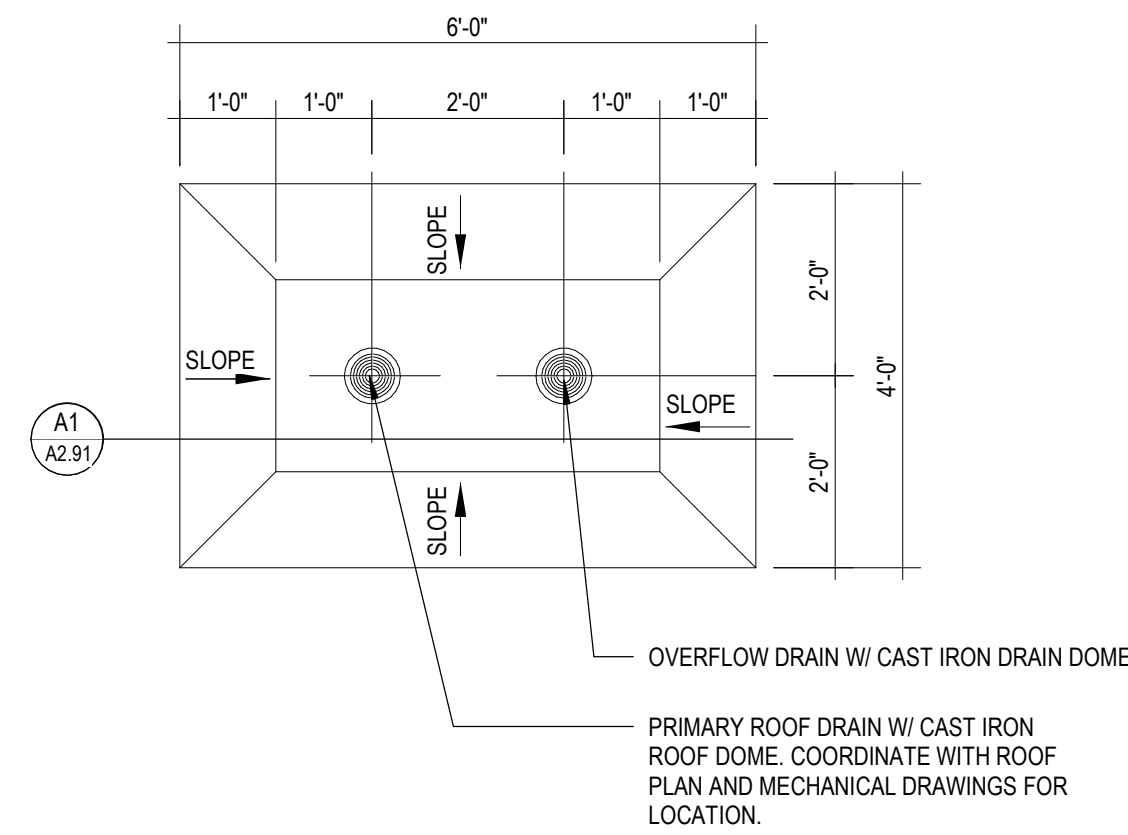
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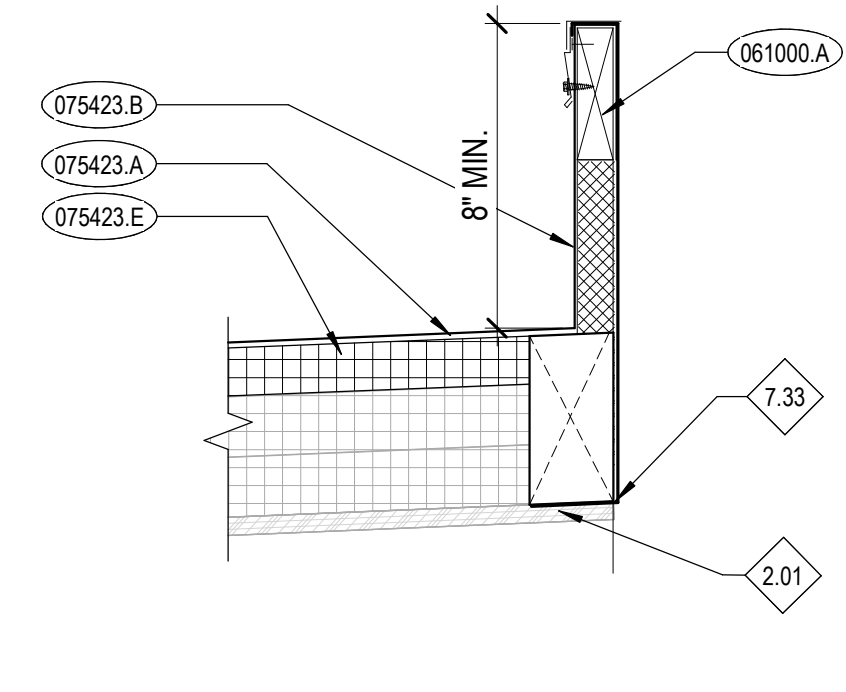
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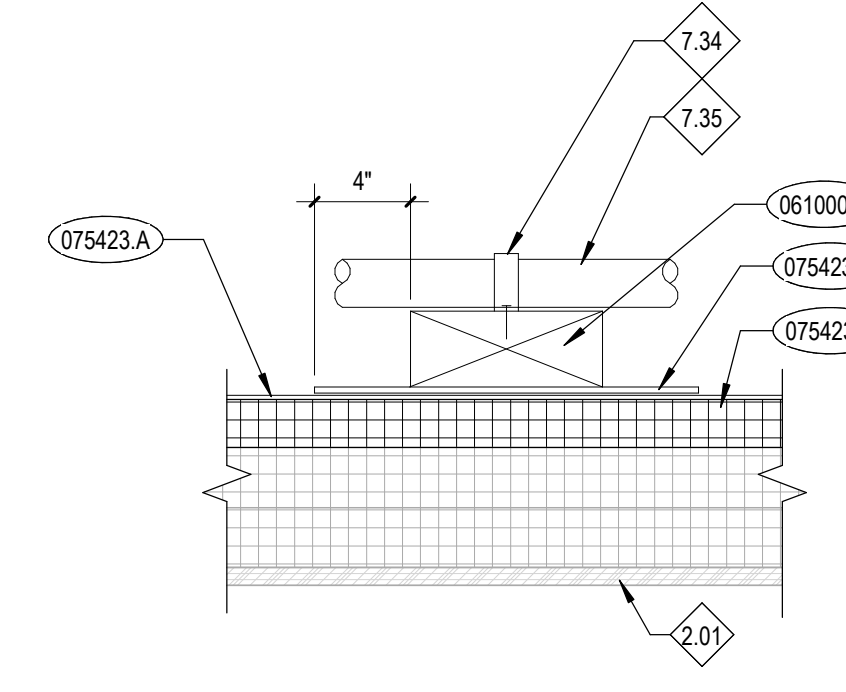
A1 ROOF DRAIN DETAIL (BASIC)
A2.91 1 1/2" = 1'-0"



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

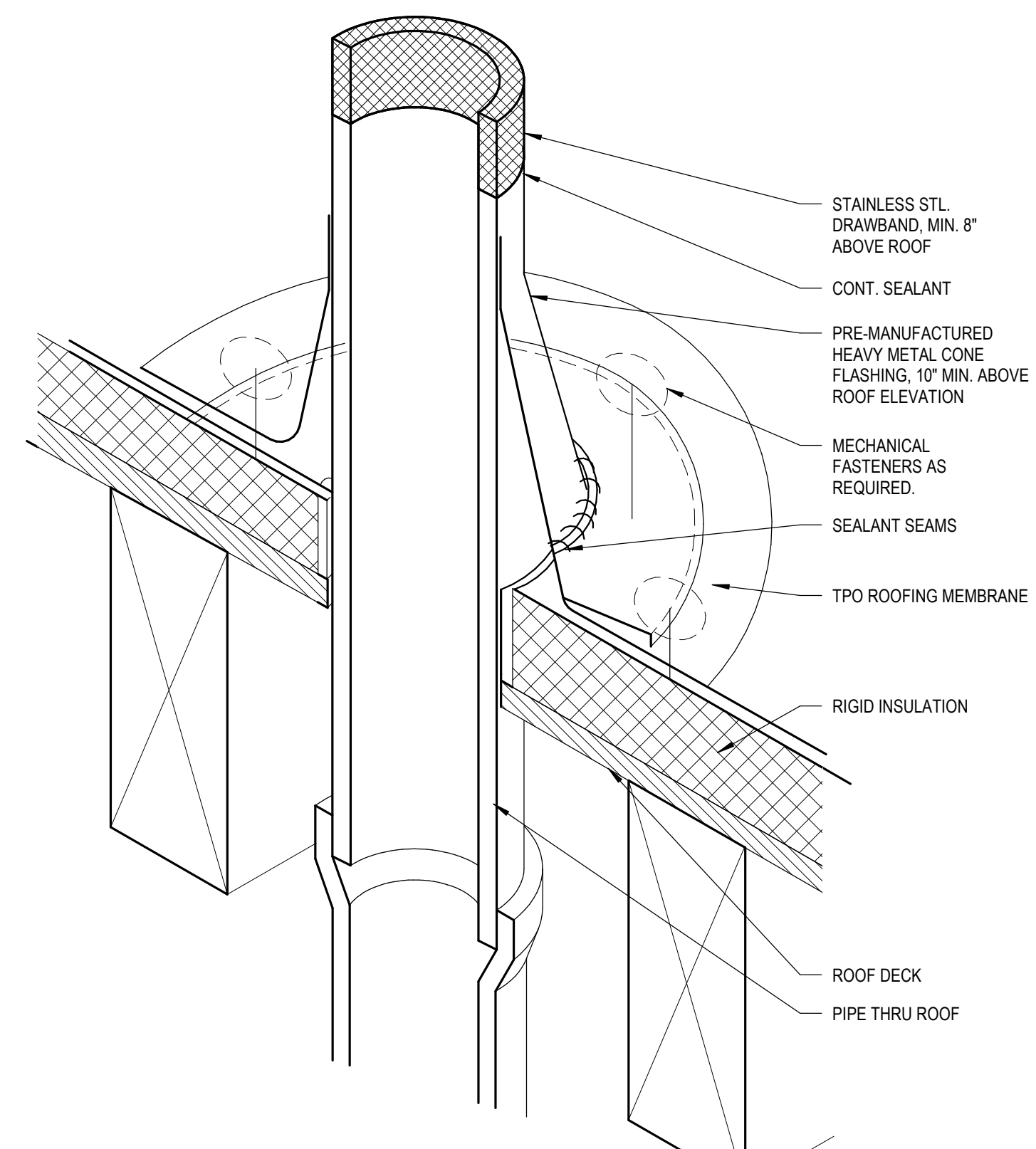


A4 TYPICAL CURB DETAIL
A2.91 1 1/2" = 1'-0"

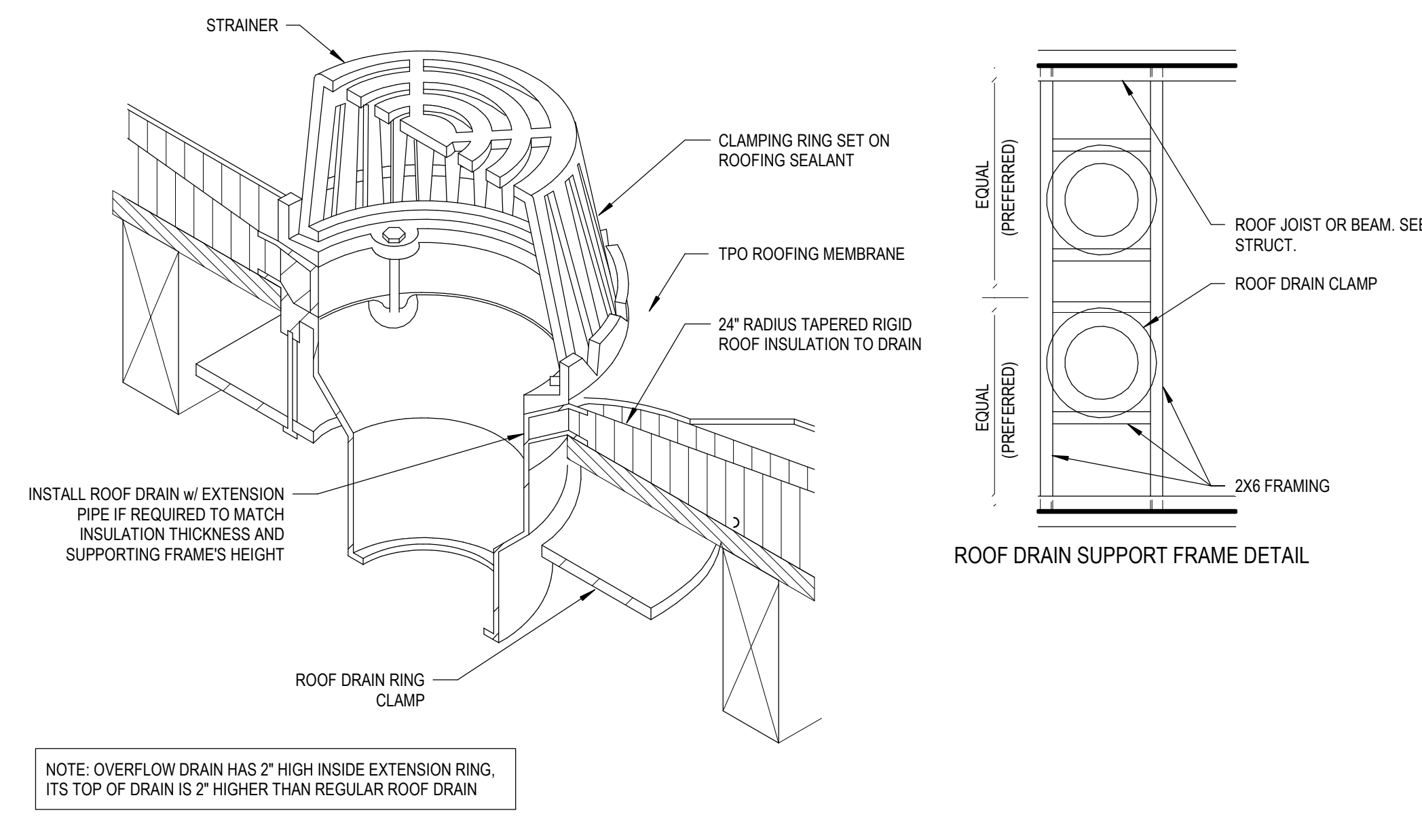


A5 PIPE SUPPORT DETAIL
A2.91 1 1/2" = 1'-0"

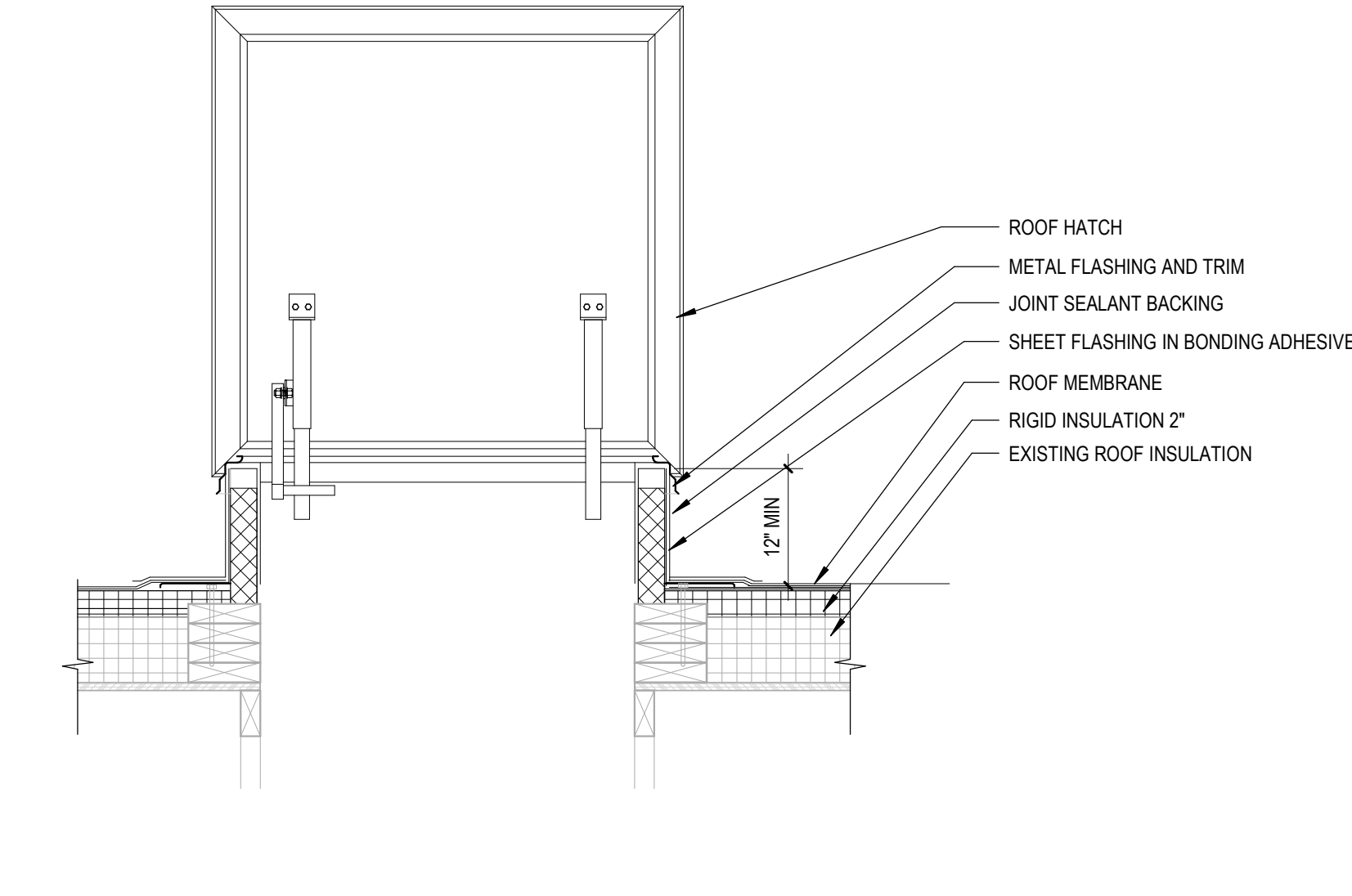
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C1 PIPE FLASHING DETAIL
A2.91 6" = 1'-0"



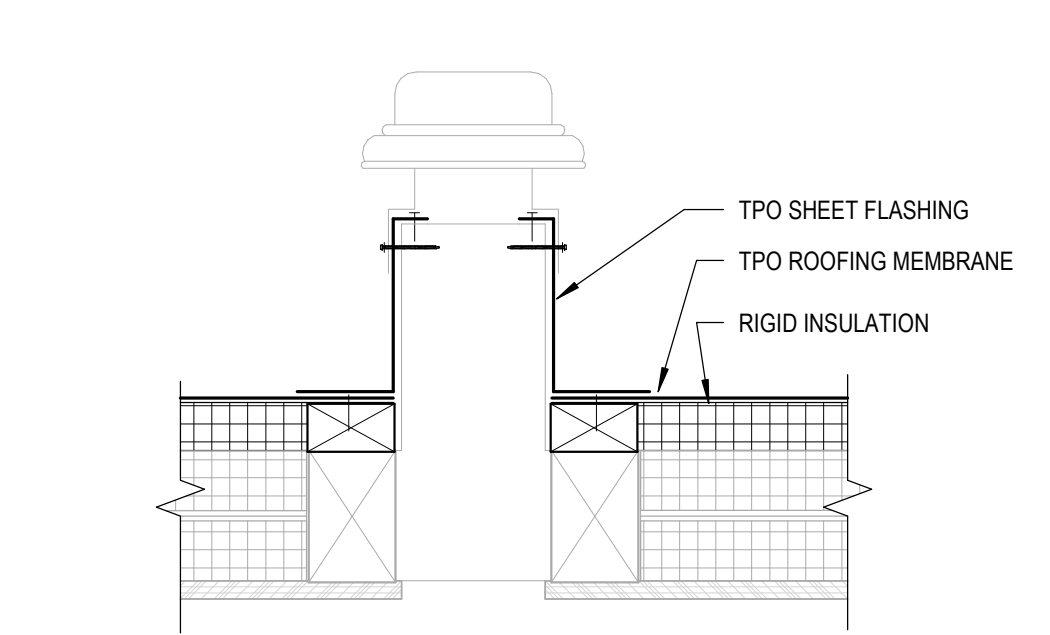
C3 TYPICAL ROOF DRAIN DETAIL
A2.91 3" = 1'-0"



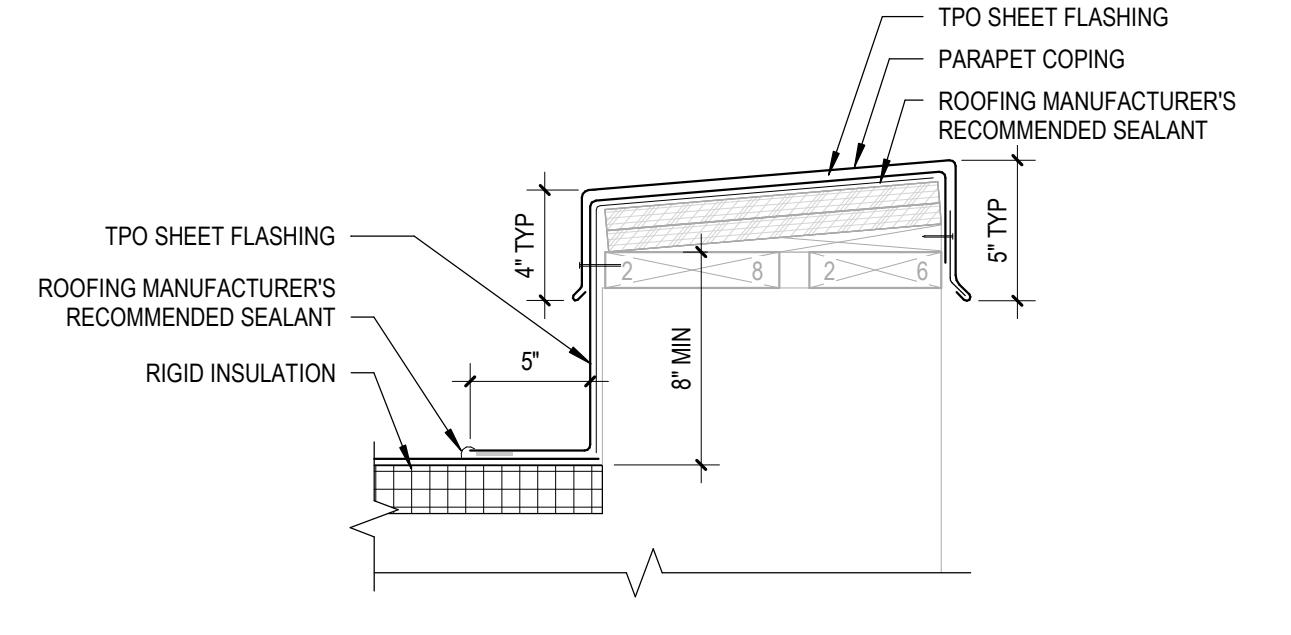
C5 ROOF HATCH DETAIL
A2.91 1" = 1'-0"

C

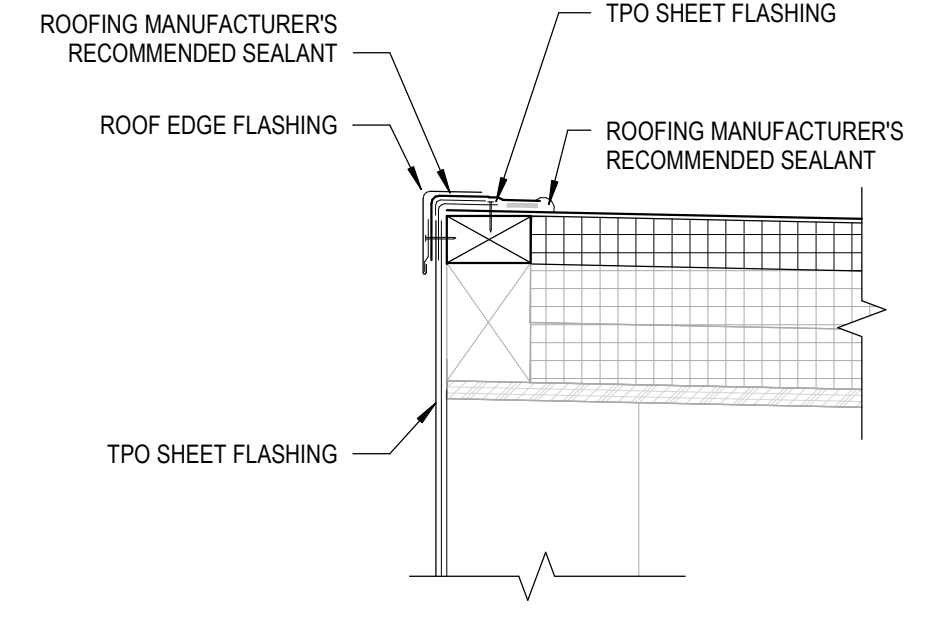
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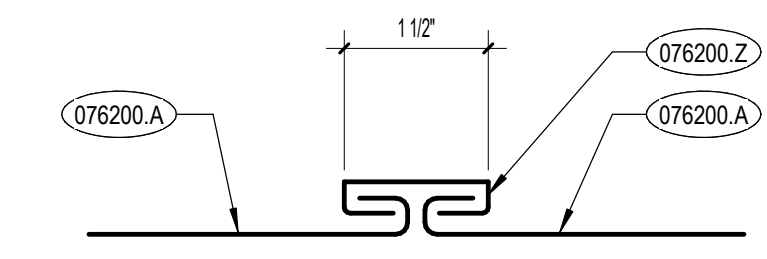
D1 EXHAUST FAN DETAIL
A2.91 1 1/2" = 1'-0"



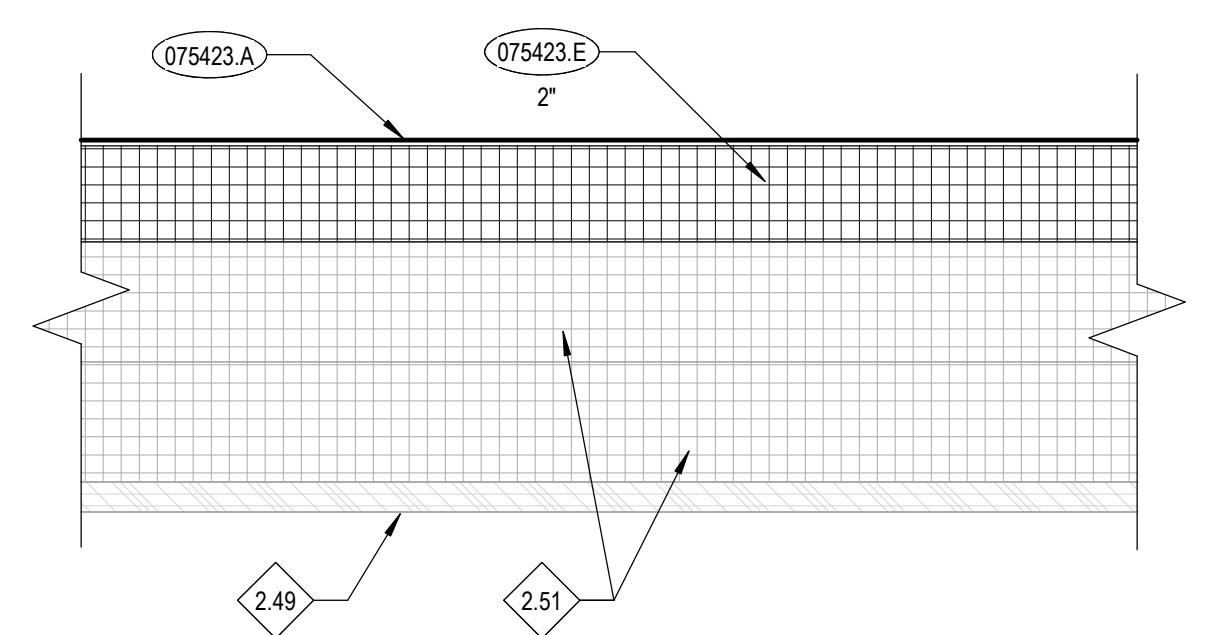
D2 TYPICAL PARAPET
A2.91 1 1/2" = 1'-0"



D3 ROOF EDGE DETAIL
A2.91 1 1/2" = 1'-0"

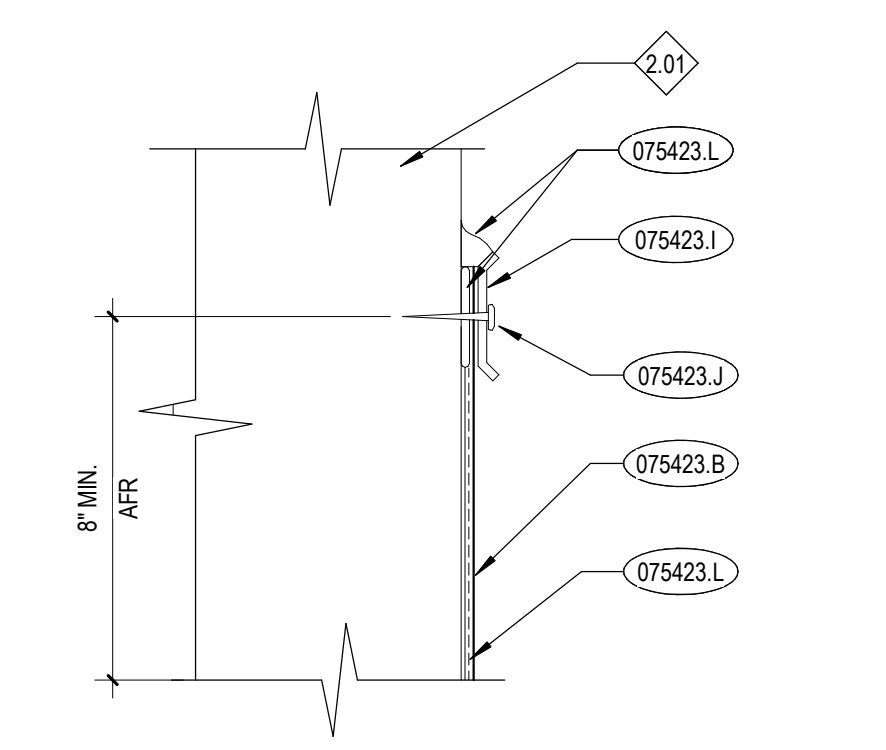


D4 TYP. COPING SEAM DETAIL
A2.91 6" = 1'-0"

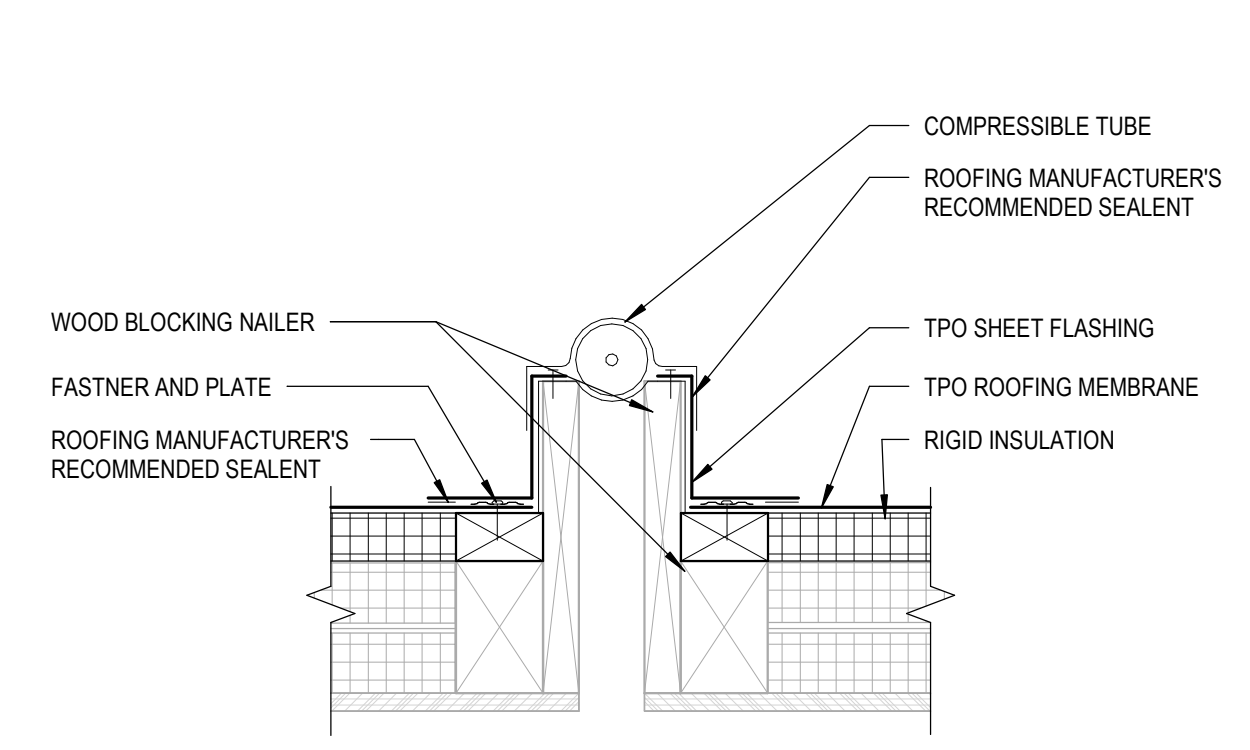


D6 ROOF ASSEMBLY
A2.91 3" = 1'-0"

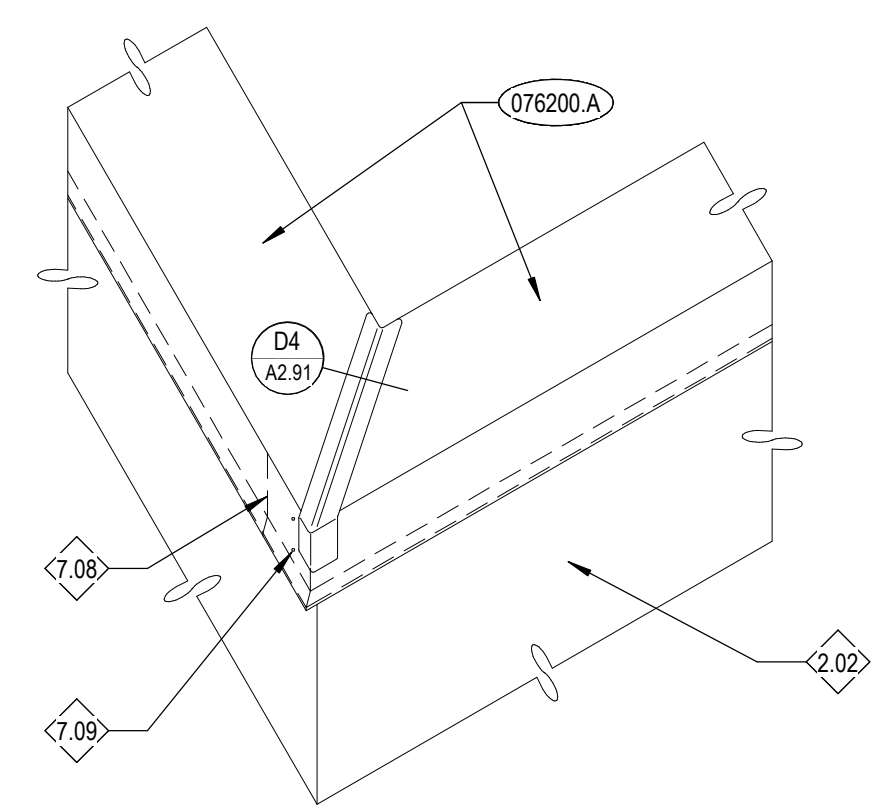
E



E2 ROOF VERTICAL TERM. NON MASONRY
A2.91 3" = 1'-0"



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



E4 TYPICAL CORNER COPING DETAIL
A2.91 1 1/2" = 1'-0"

GENERAL NOTES

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

KEYNOTES

- 061000.A DIMENSIONAL LUMBER
- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 075423.B TPO SHEET FLASHING
- 075423.C 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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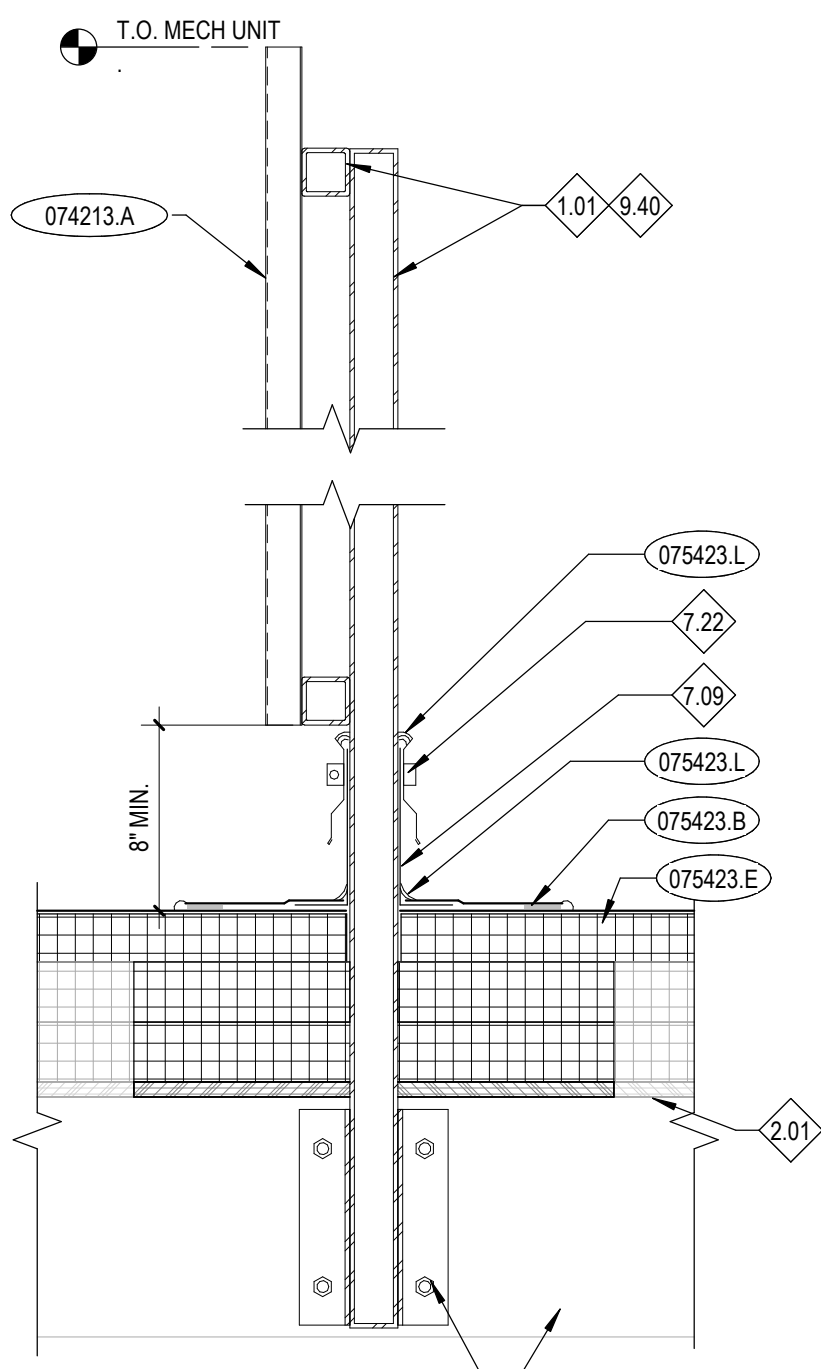
PROFESSIONAL ARCHITECT
 LICENSED
 01/15/2025
 TR-9867
 BRIAN F. COLEMAN

Revisions: Δ

Project No: 24074
 Drawn By: NB
 Checked By: PR
 Date: 01/15/2025

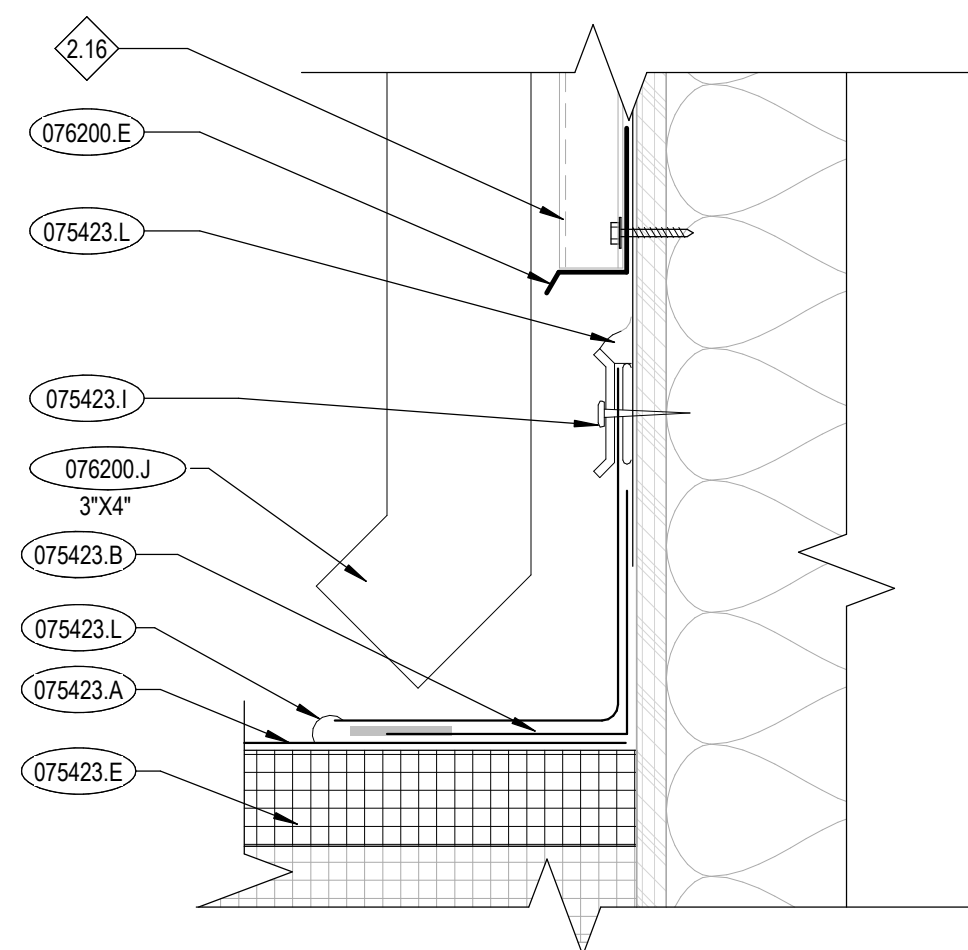
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A



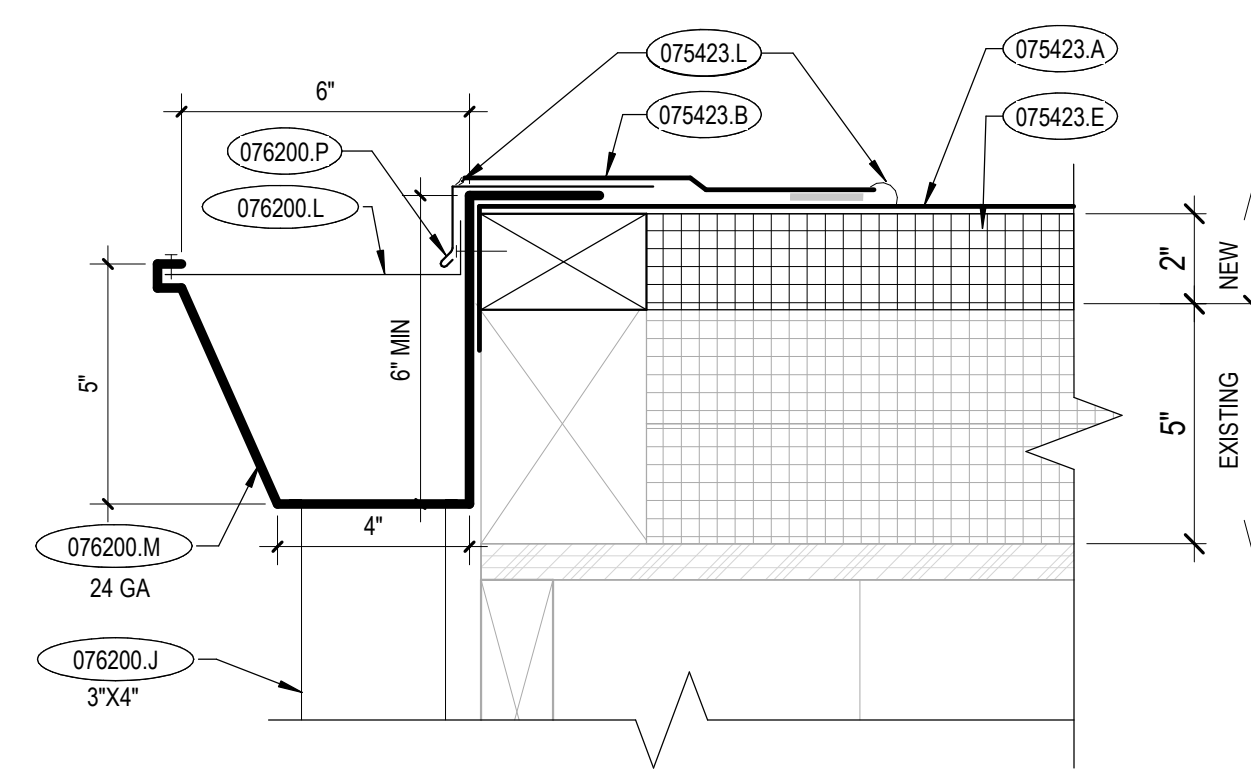
B1 MECHANICAL SCREEN
A2.92 1 1/2" = 1'-0"

B



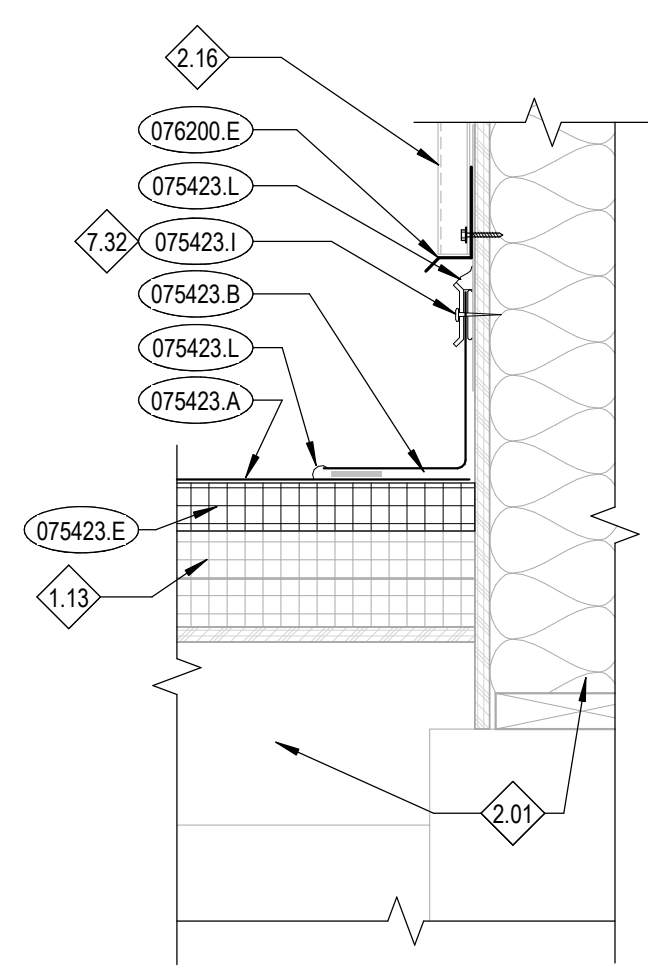
B2 DOWNSPOUT @ ROOF
A2.92 3" = 1'-0"

C



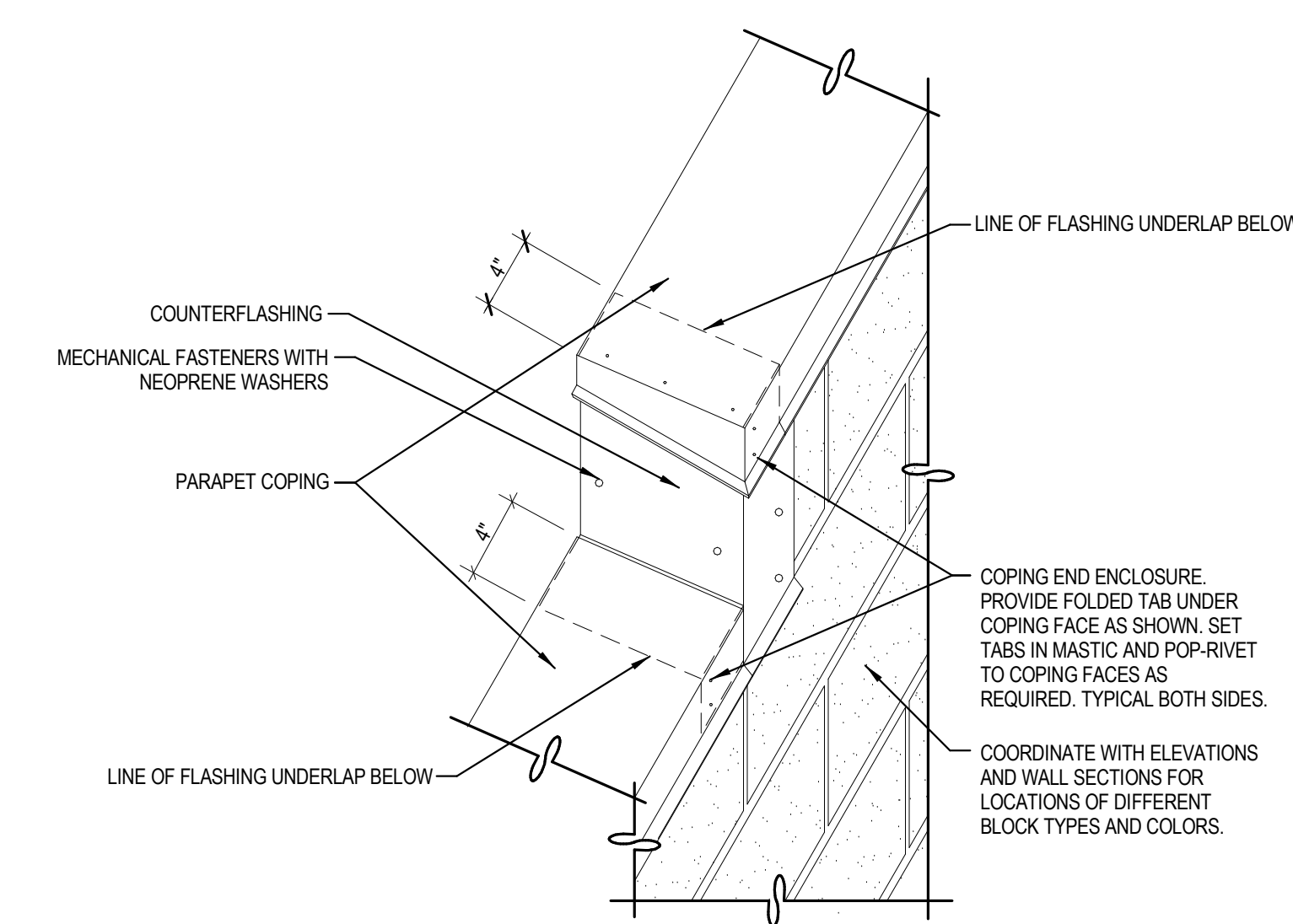
B3 HANGING GUTTER @ TPO
A2.92 3" = 1'-0"

D



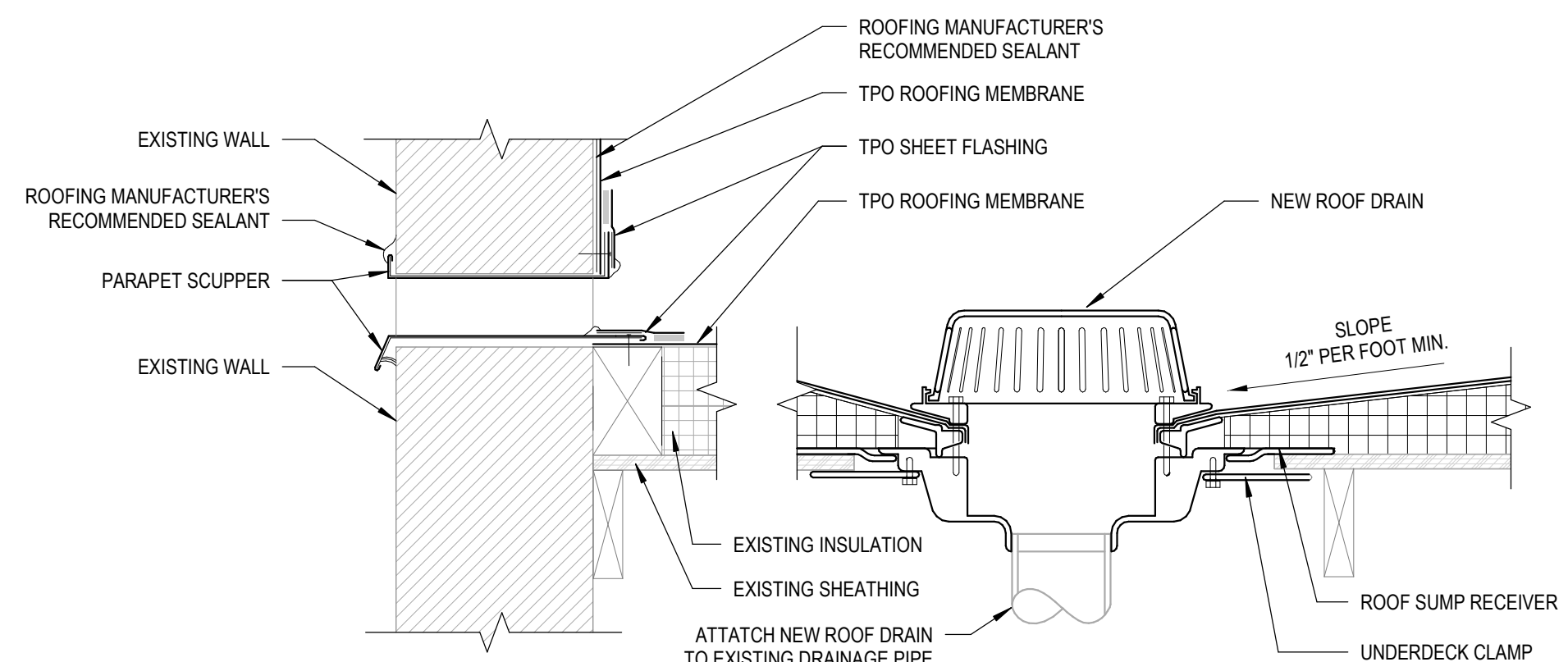
B4 ROOF @ METAL PANEL
A2.92 1 1/2" = 1'-0"

E



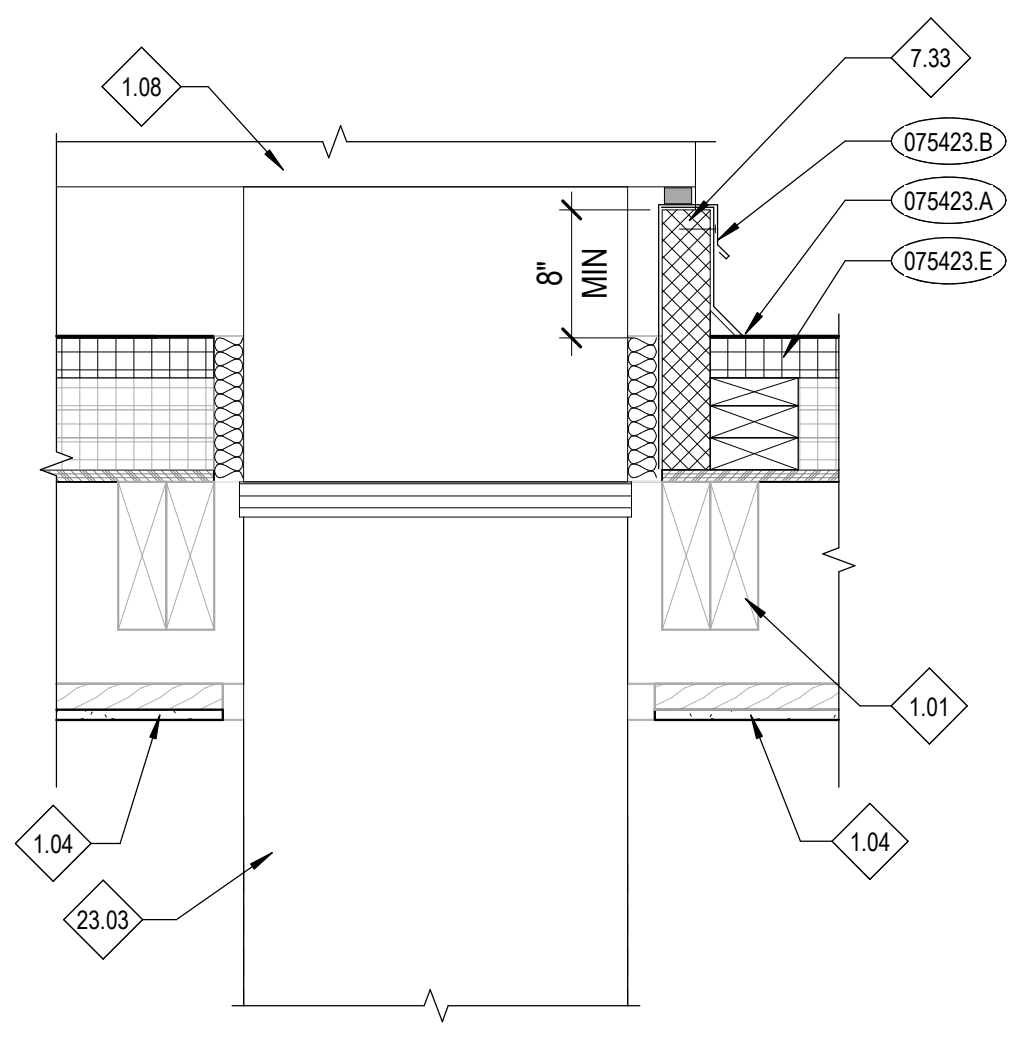
B5 COPING DETAIL
A2.92 1 1/2" = 1'-0"

C



C1 THROUGH WALL SCUPPER @ ROOF DRAIN
A2.92 1 1/2" = 1'-0"

D



C3 DUCT PENETRATION @ ROOF
A2.92 1" = 1'-0"

D

E

GENERAL NOTES

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

KEYNOTES

- 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 TAPERED 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 CREATE A 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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Sheet:
ROOF DETAILS

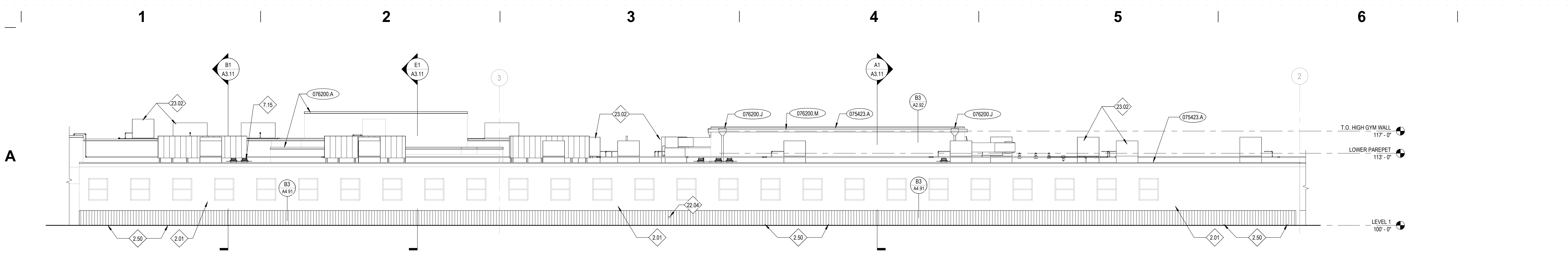
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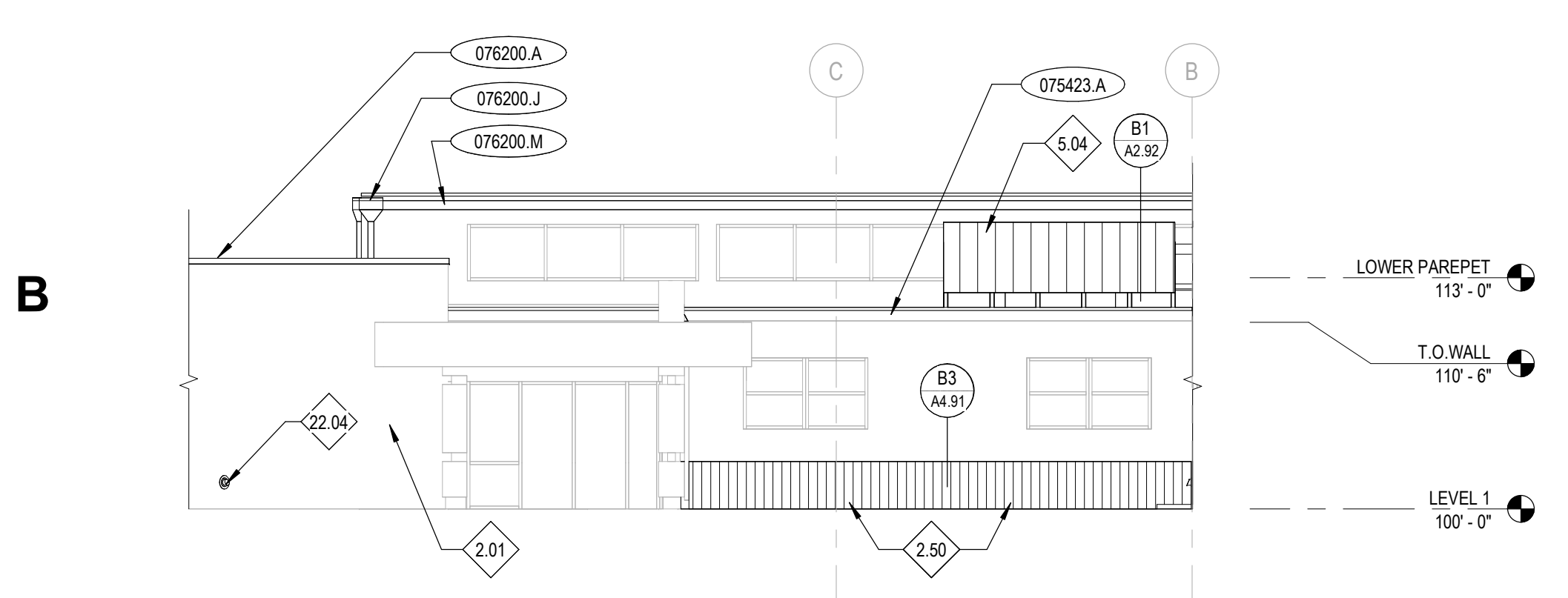
Revisions: △

Project No: 24074
 Drawn By: NB
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 Date: 01/15/2025

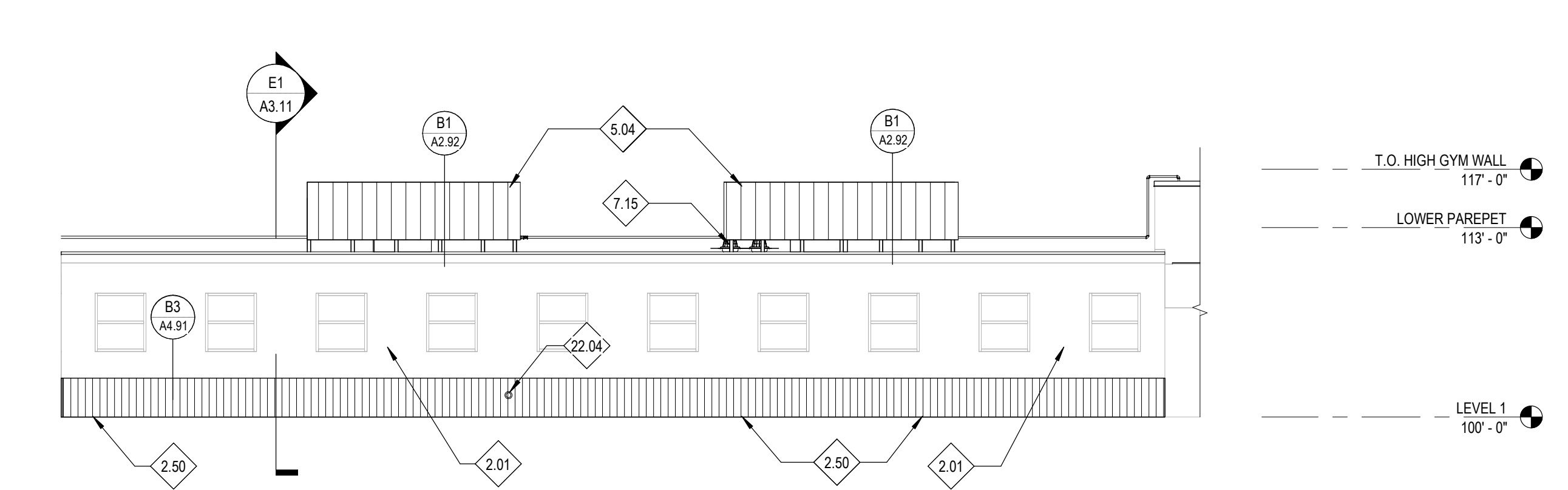
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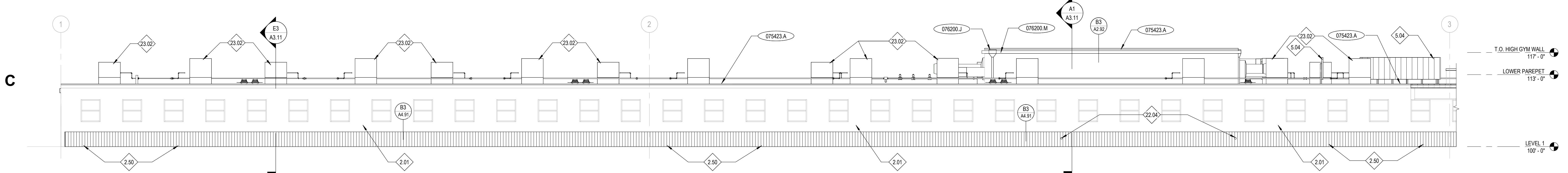
A1
A3.01
EXTERIOR ELEVATION - NORTH A1
1/8" = 1'-0"



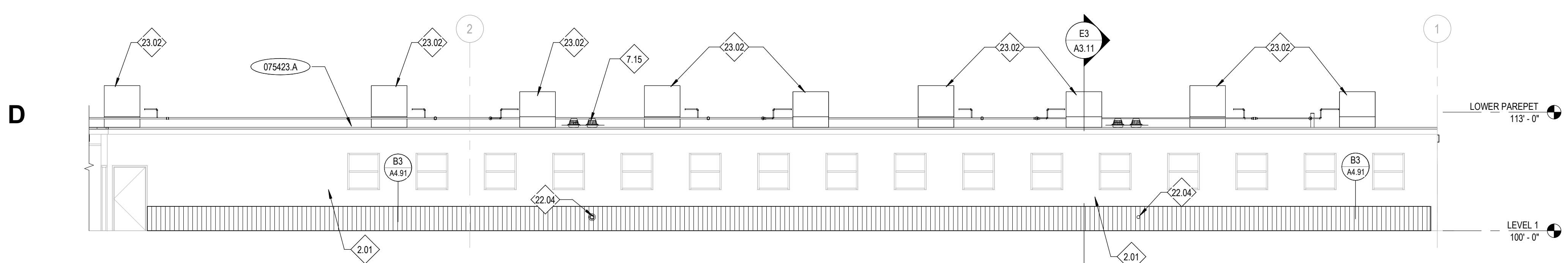
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EXTERIOR ELEVATIONS - EAST A1
1/8" = 1'-0"



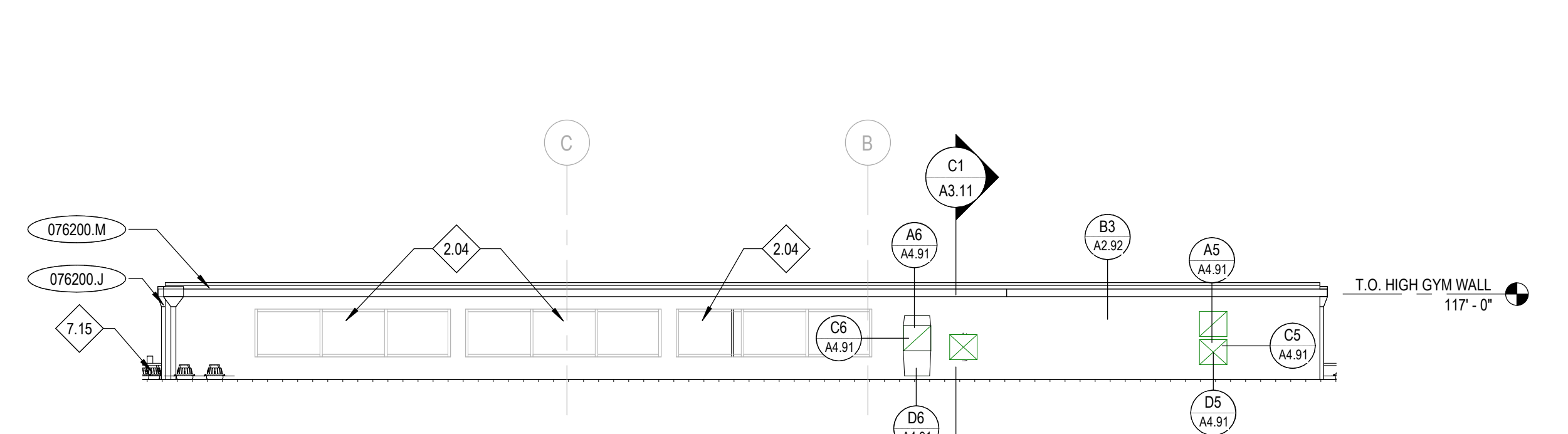
B3
A3.01
EXTERIOR ELEVATION - SOUTH A1
1/8" = 1'-0"



C1
A3.01
EXTERIOR ELEVATION - SOUTH A2
1/8" = 1'-0"



D1
A3.01
EXTERIOR ELEVATION - NORTH A2
1/8" = 1'-0"



D5
A3.01
EXTERIOR ELEVATION - HIGH EAST A2
1/8" = 1'-0"


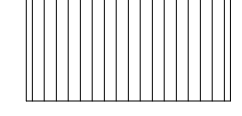
KEYNOTES

- 075423.A THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING
- 07E200.A PARAPET COPING
- 07E200.J DOWNSPOUT
- 07E200.M CONTINUOUS FASCIA GUTTER, TO BE INSTALLED ALONG ENTIRE PERIMETER OF THE HIGH WALL.

REFERENCE NOTES

- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 2.04 PRESERVE AND PROTECT EXISTING WINDOW SYSTEM
- 2.50 NEW SHEATHING AND PRE-FINISHED METAL WALL PANEL PAINTED TO MATCH EXISTING
- 5.04 MECHANICAL SCREENING WALL, RE B1/A2 S2
- 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

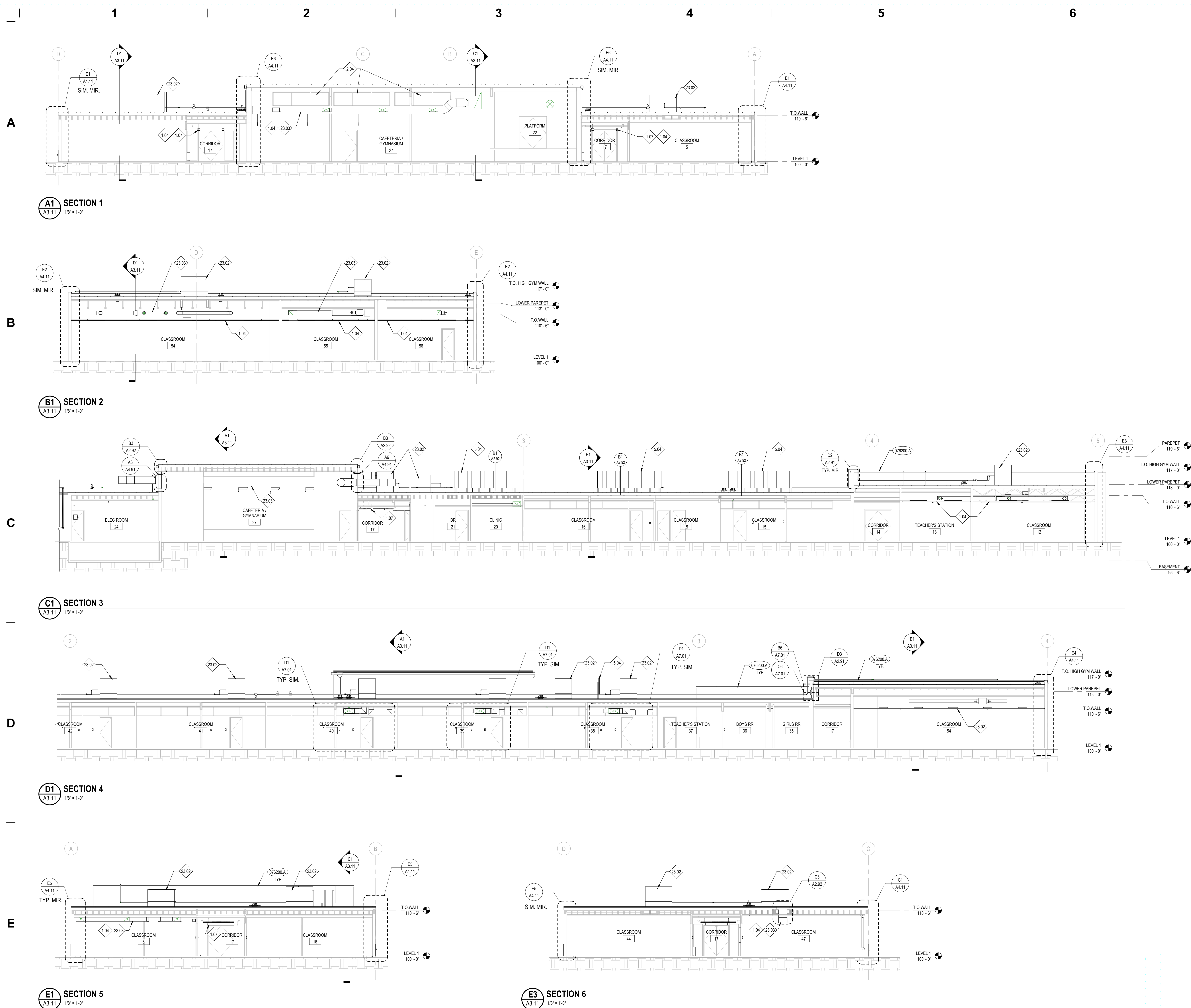
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Checked By: PR
Date: 01/15/2025

Sheet No:
A3.01



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.
- 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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Project:
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 Morningside Elementary School
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BUILDING SECTIONS

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 BRIAN F. COLEMAN

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 Date: 01/15/2025

Sheet No:
A3.11

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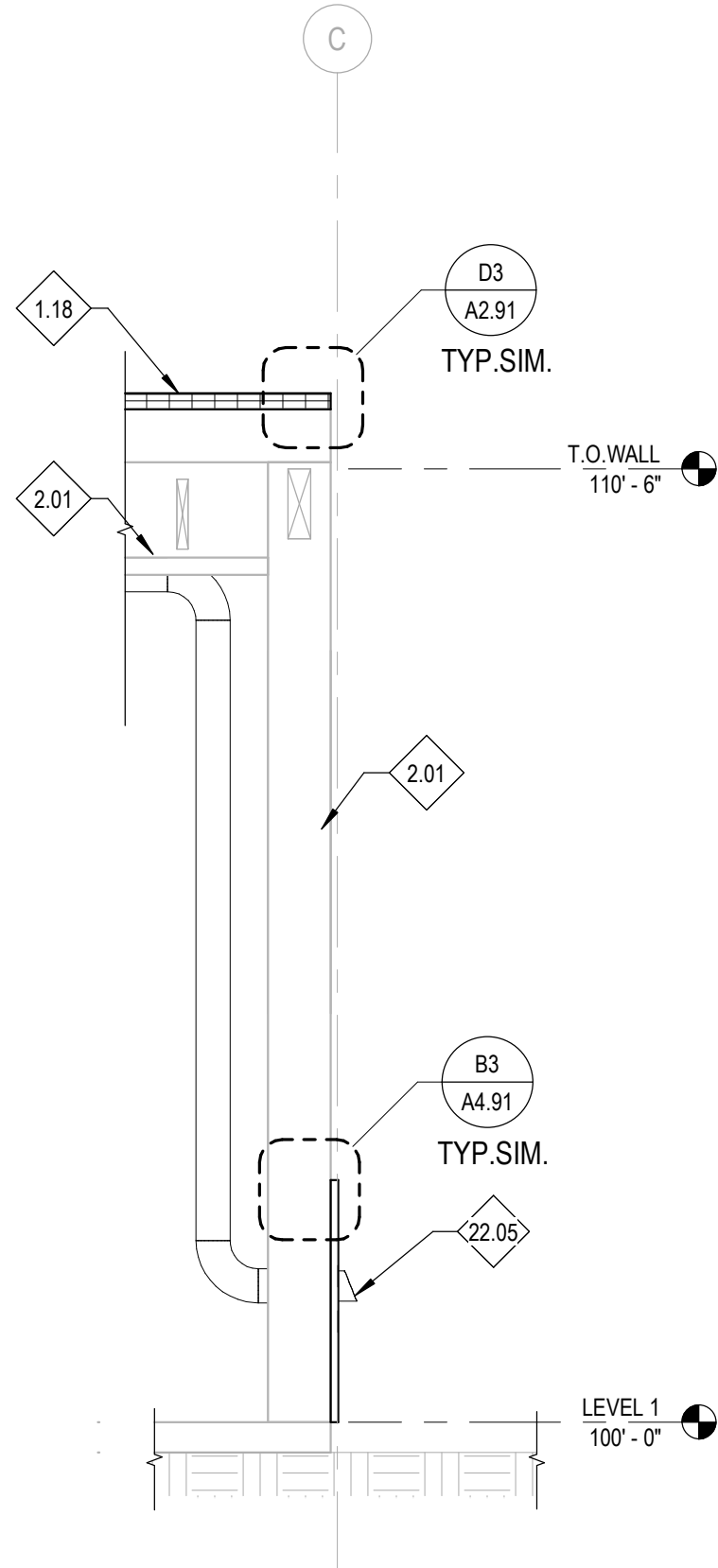
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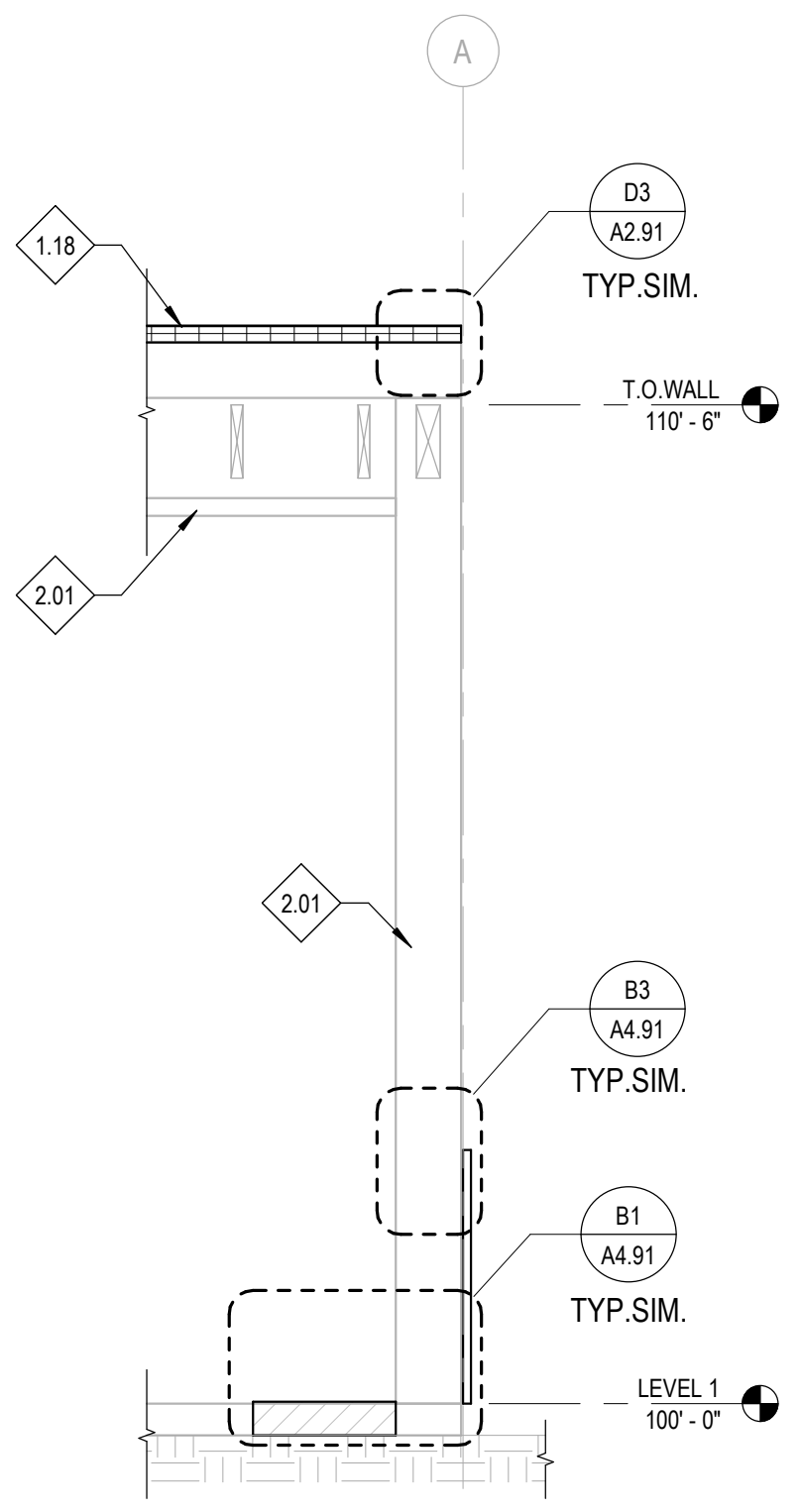
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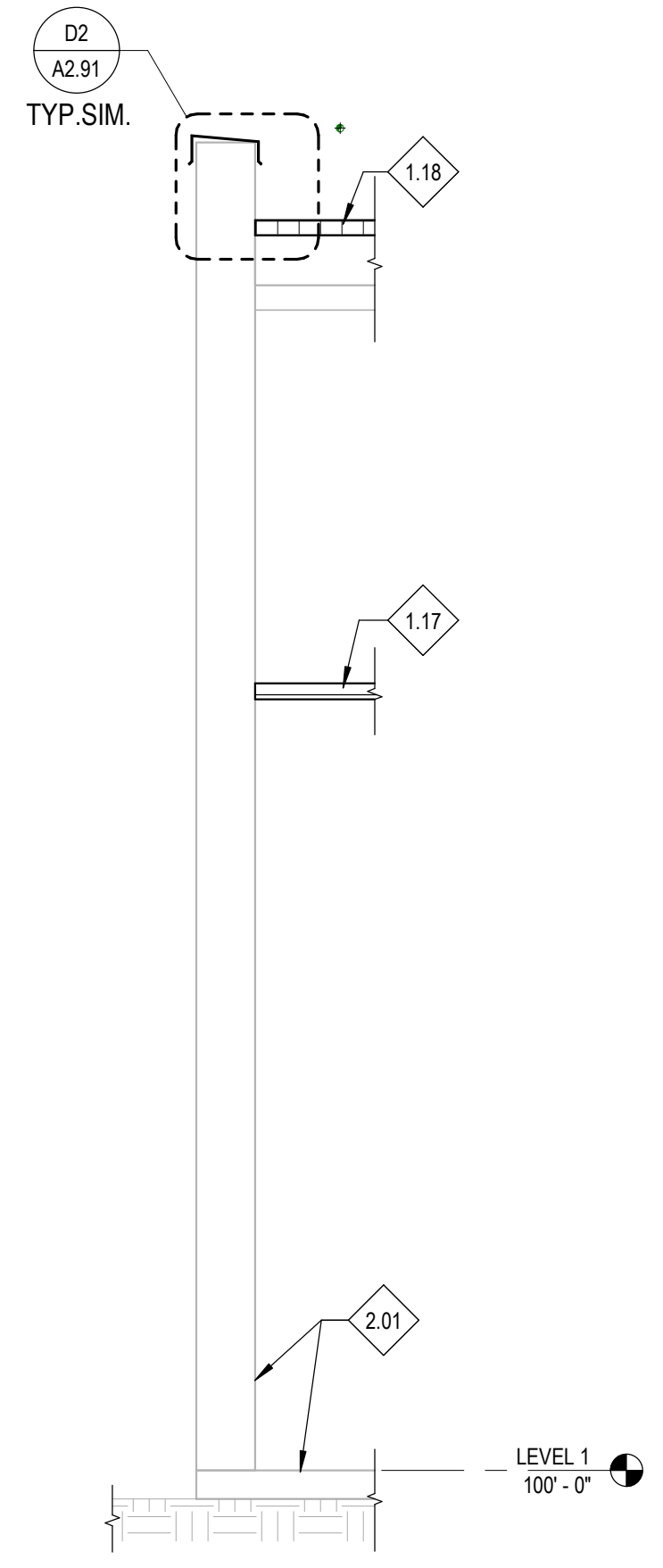
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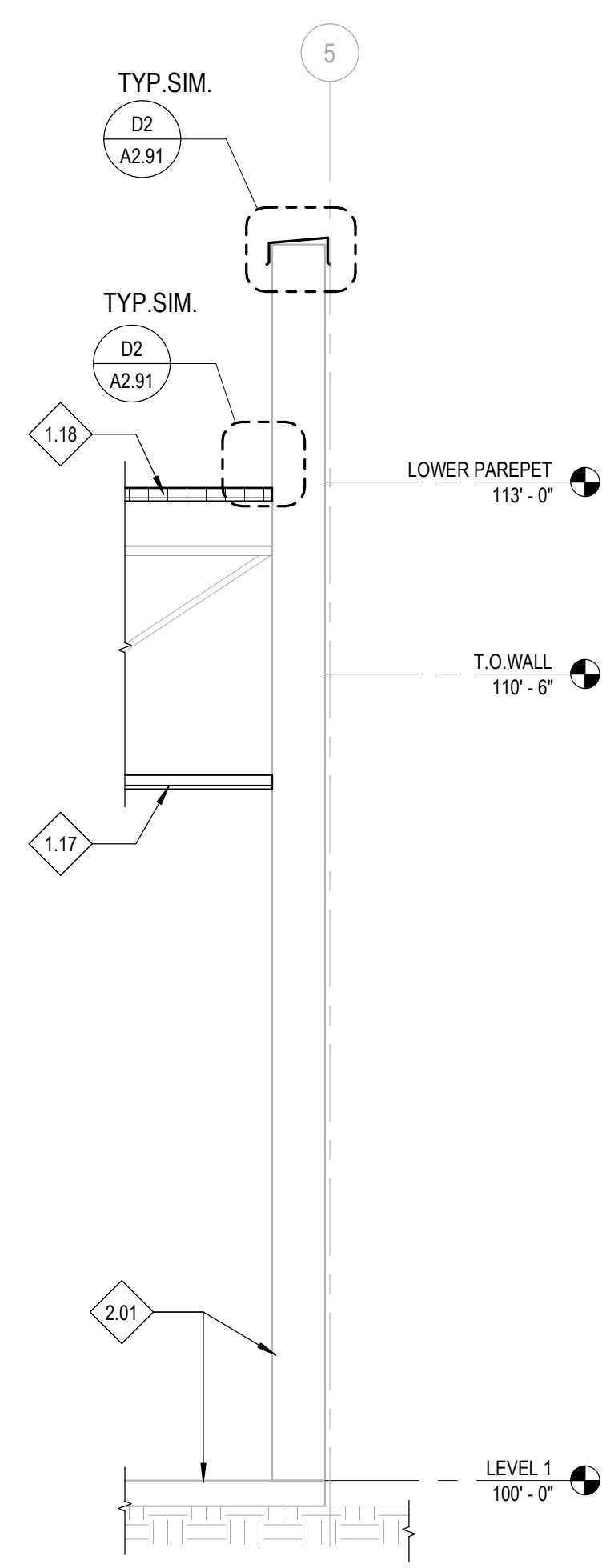
C1 WALL SECTION - 7
A4.11 1/2" = 1'-0"



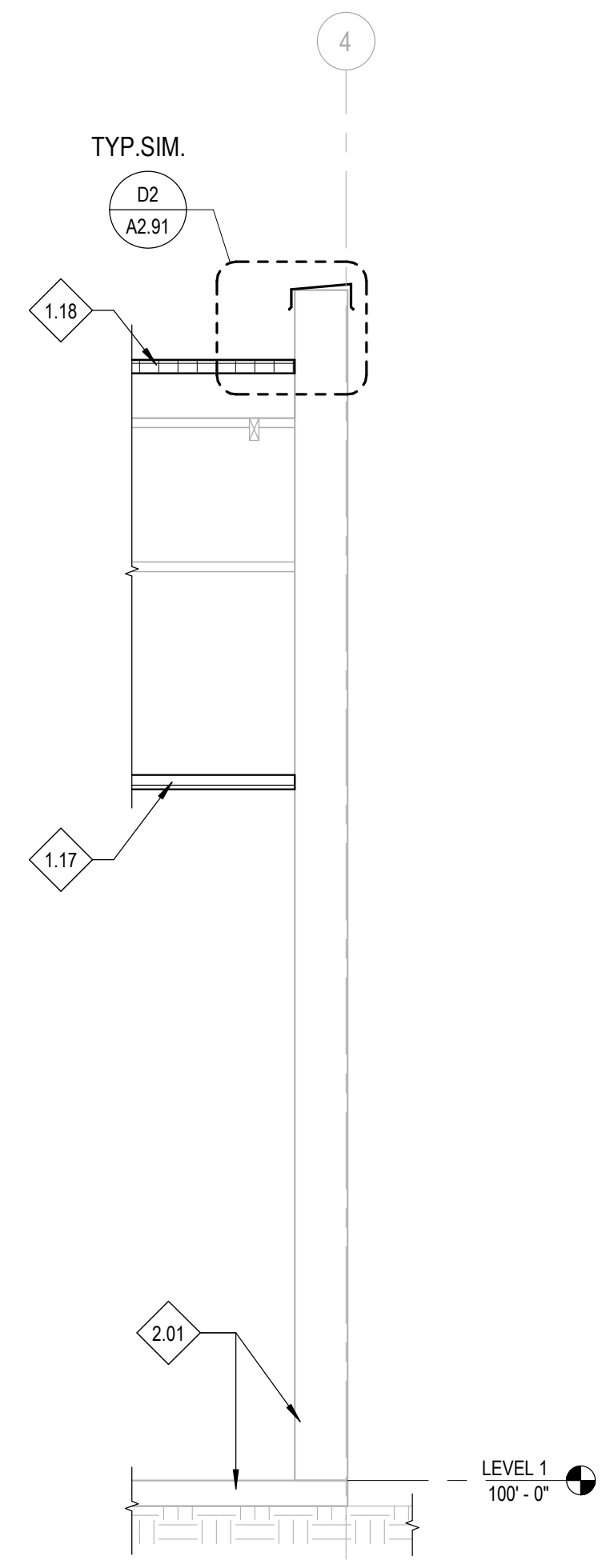
E1 WALL SECTION - 1
A4.11 1/2" = 1'-0"



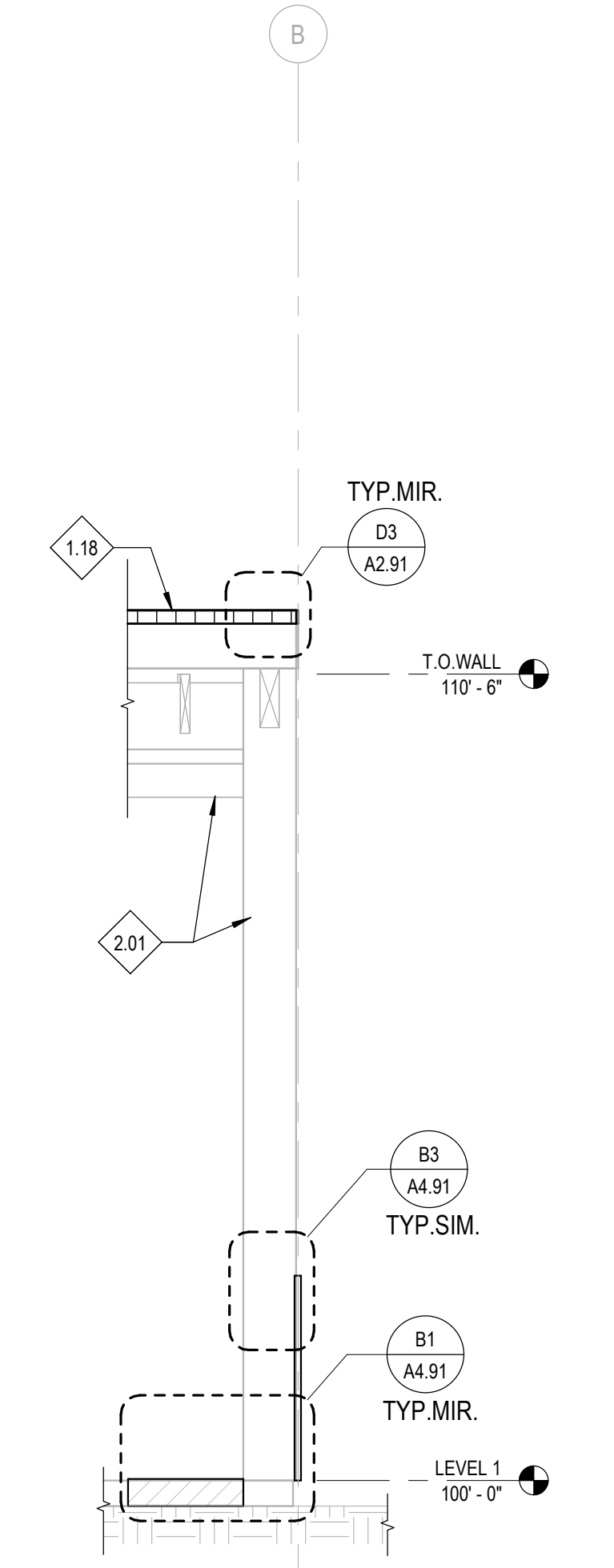
E2 WALL SECTION - 2
A4.11 1/2" = 1'-0"



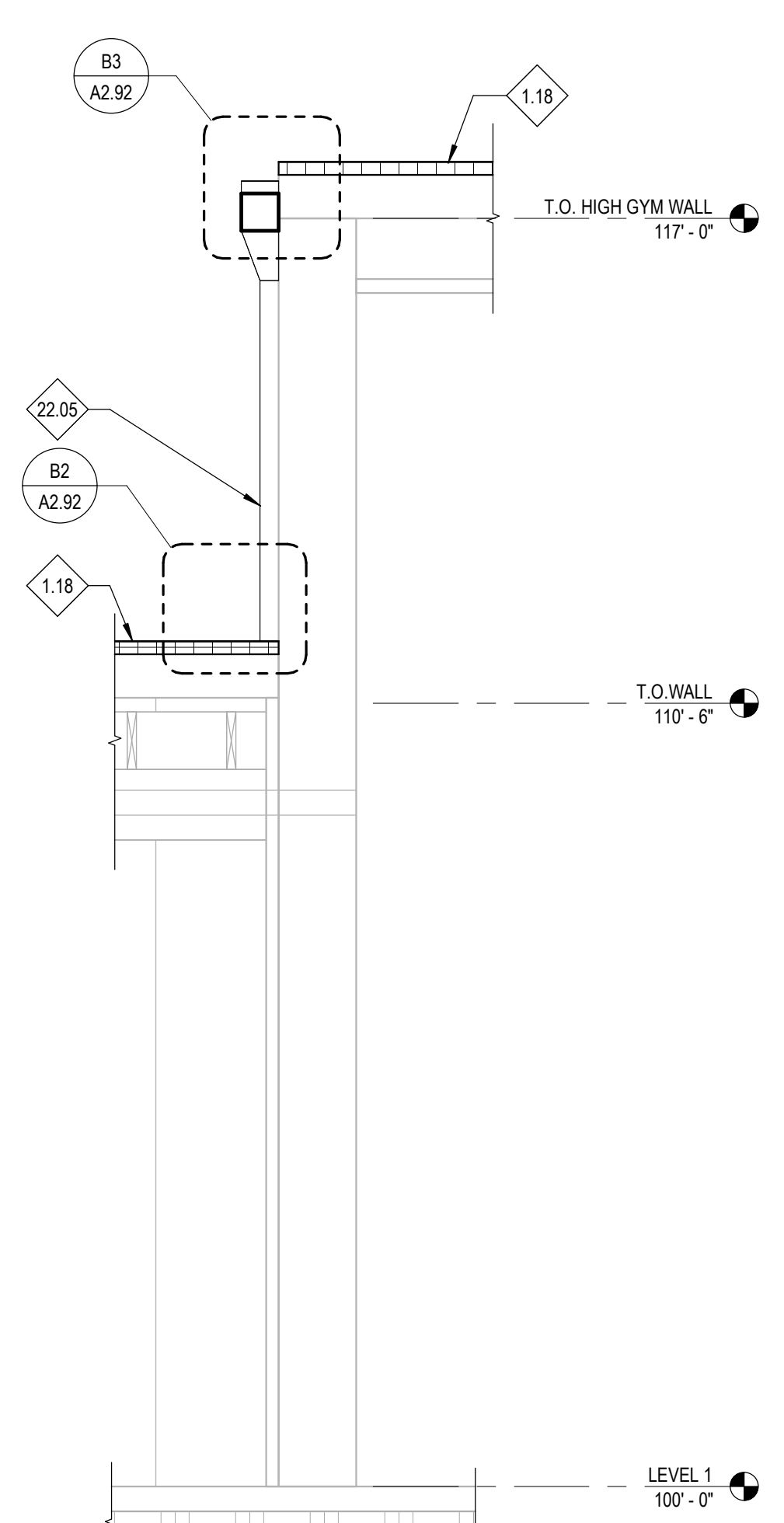
E3 WALL SECTION - 3
A4.11 1/2" = 1'-0"



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"

KEYNOTES

REFERENCE NOTES

- 1.17 RE: CEILING PLAN FOR CEILING TYPES
- 1.18 REFER DS6A2.91 FOR ROOF COMPOSITION
- 2.01 PRESERVE AND PROTECT EXISTING CONSTRUCTION
- 22.05 ROOF DRAIN DOWNSPOUT. SEE PLUMBING DRAWINGS FOR SIZES AND LOCATIONS.

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Sheet:
EXTERIOR WALL SECTIONS

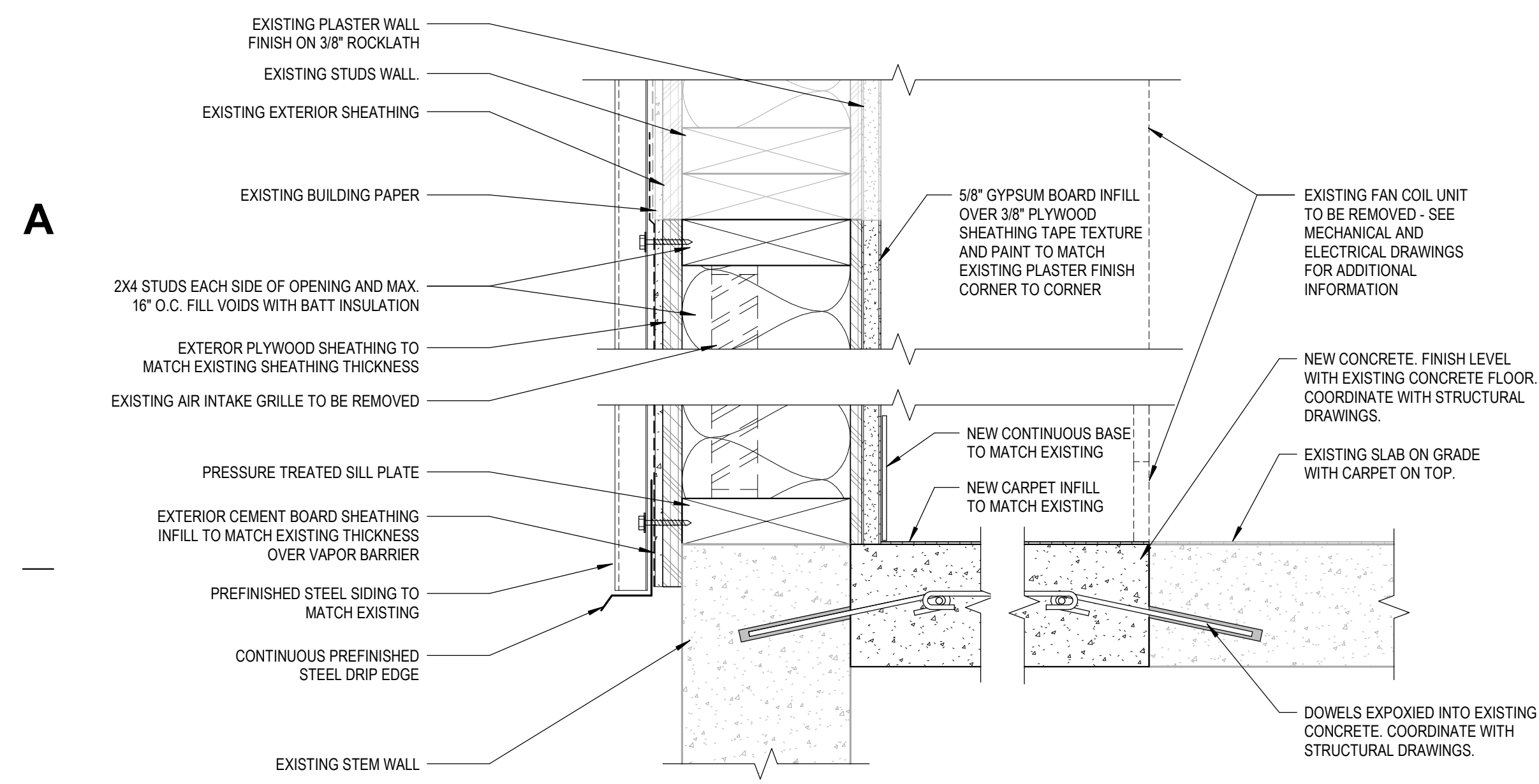
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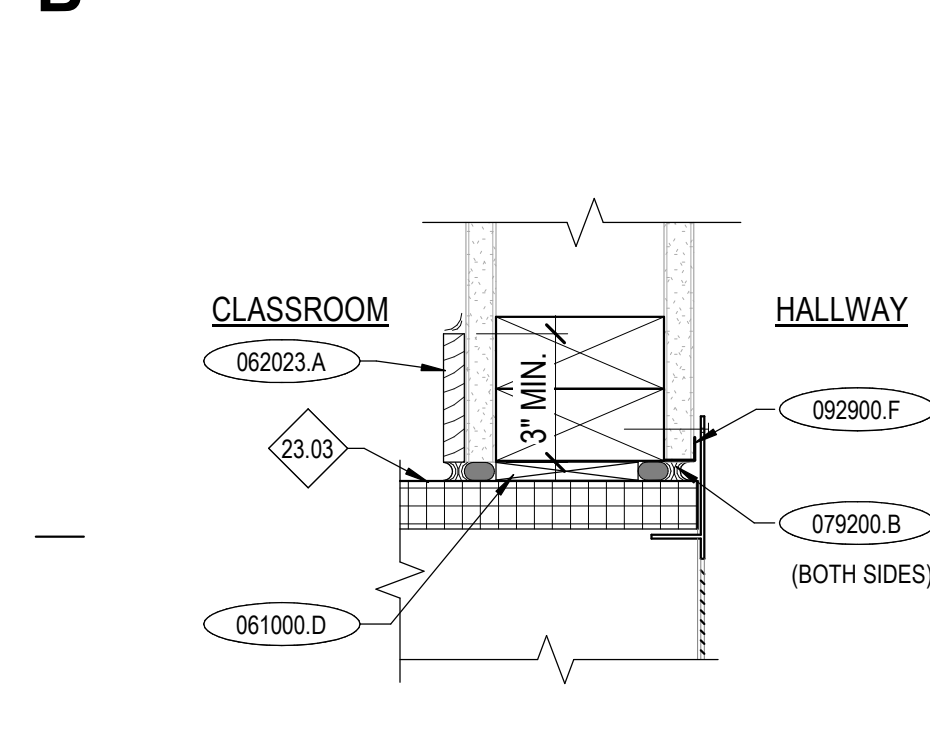
Revisions: Δ

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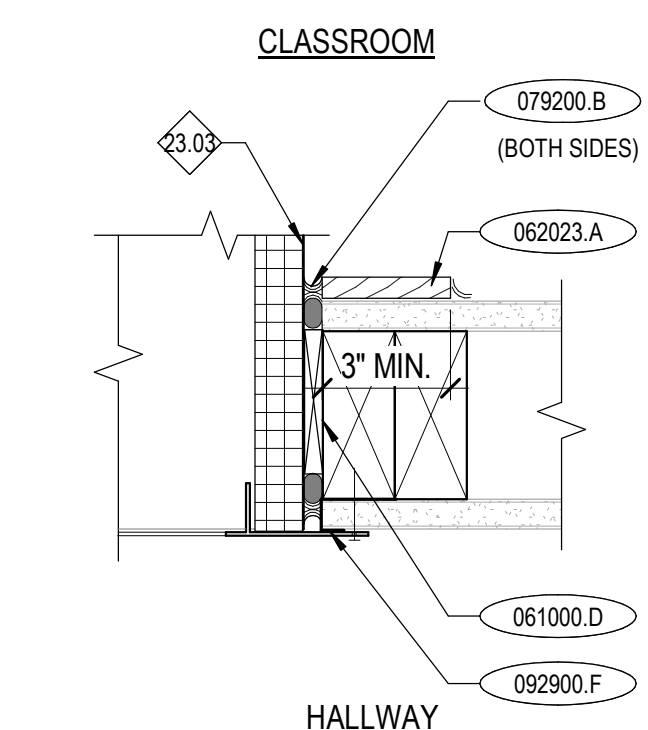
Sheet No:
A4.11



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



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

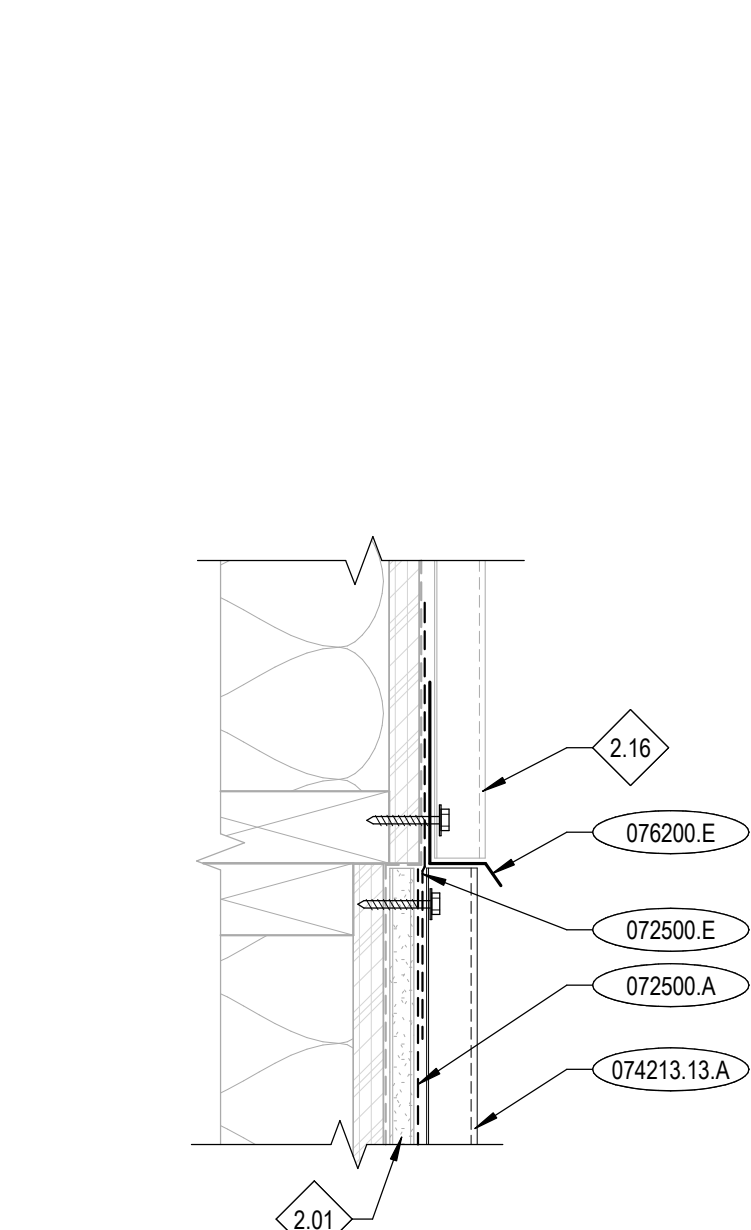


C2 DUCT JAMB @ GYP
A4.91 3" = 1'-0"

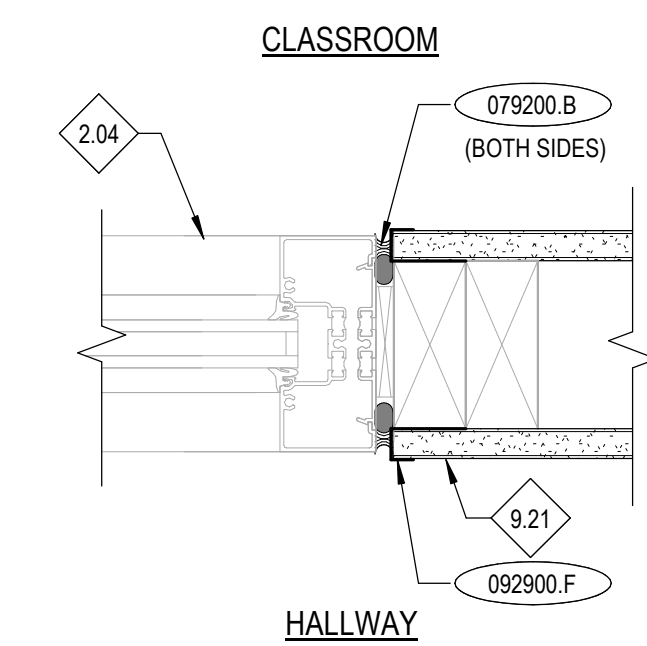
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D

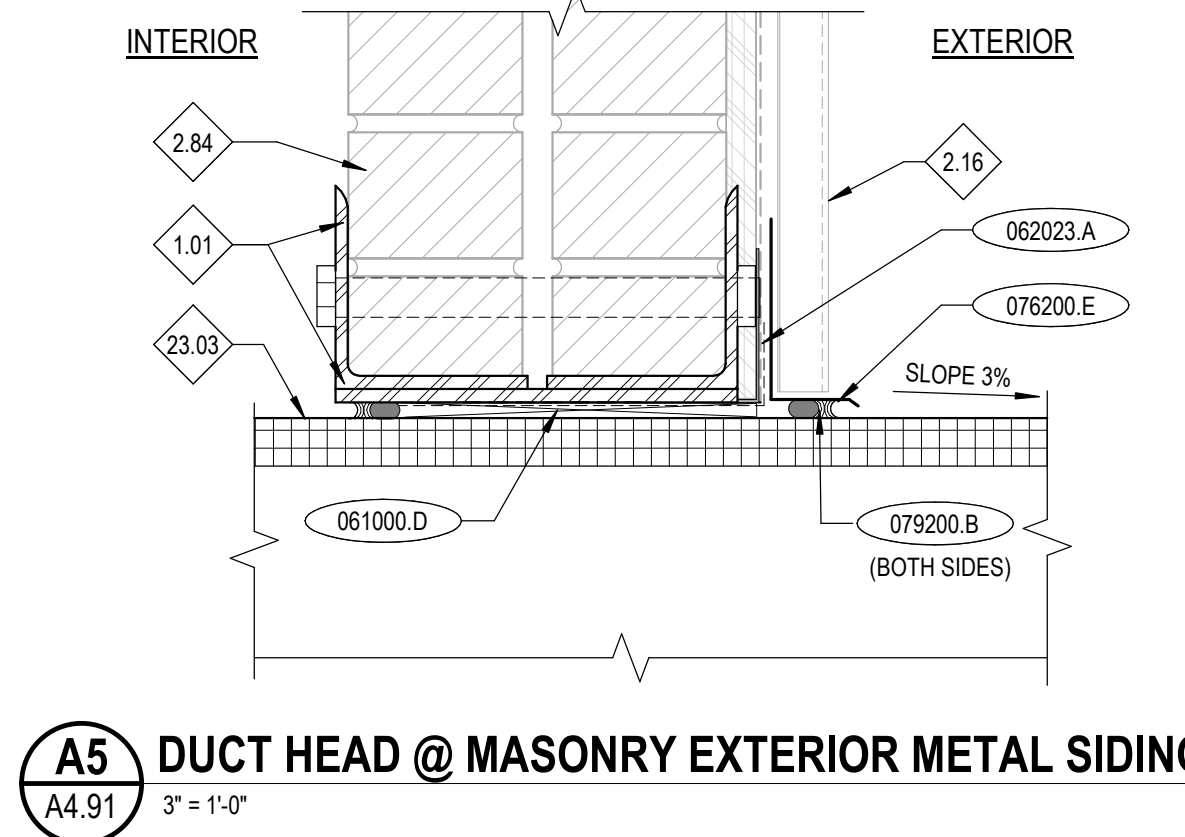
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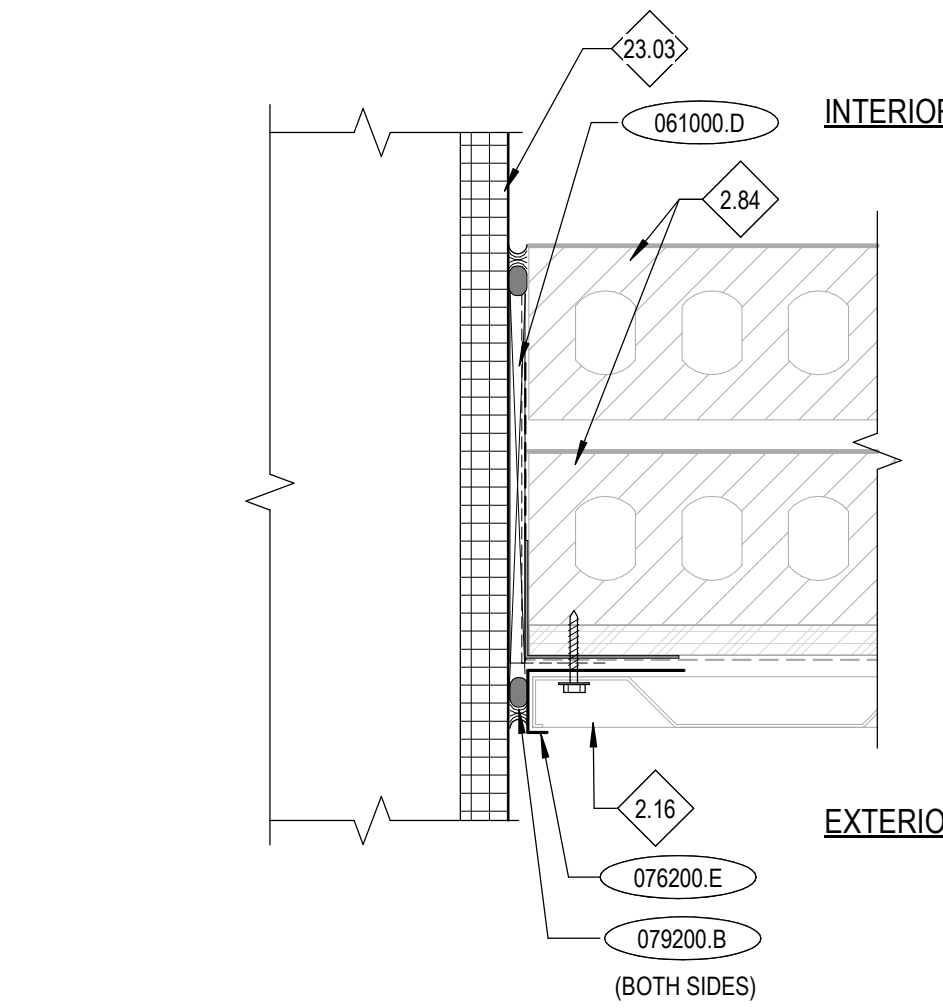
B3 METAL SIDING TRANSITION
A4.91 3" = 1'-0"



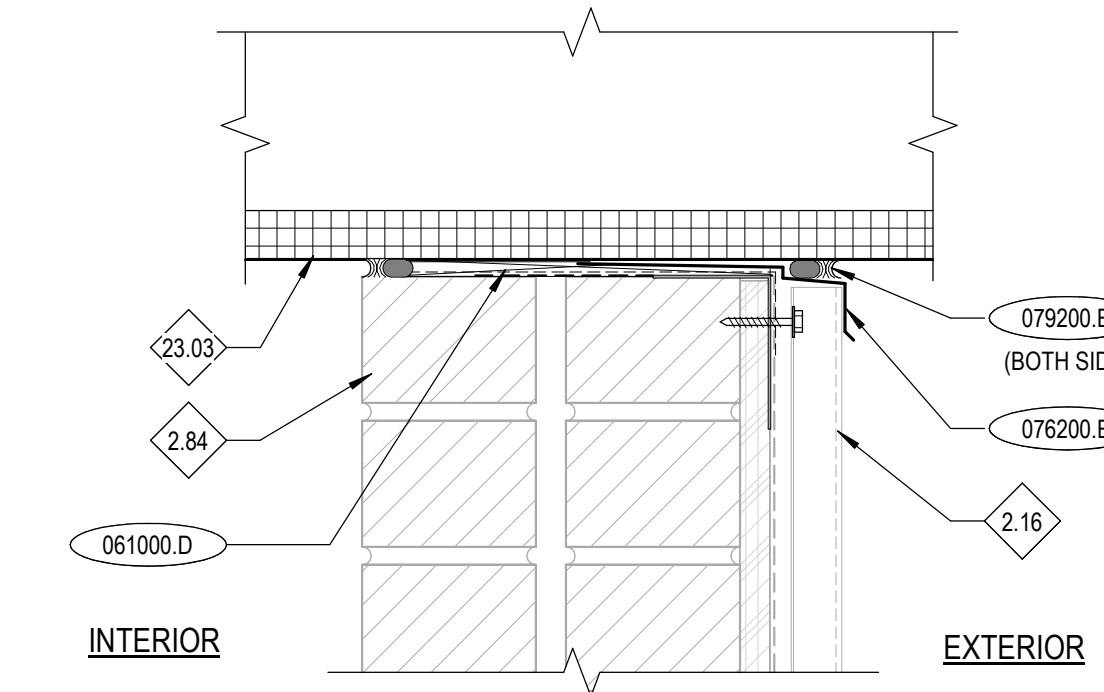
C4 WINDOW JAMB @ GYP INFILL
A4.91 3" = 1'-0"



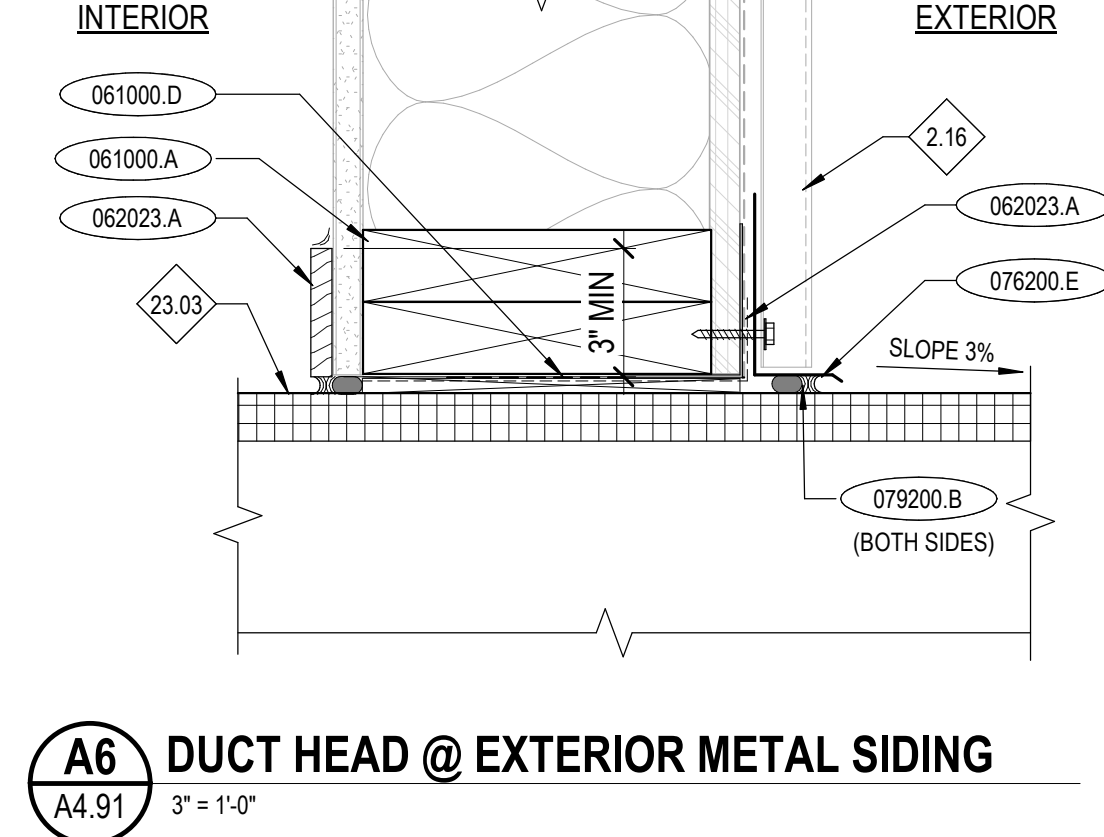
A5 DUCT HEAD @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"



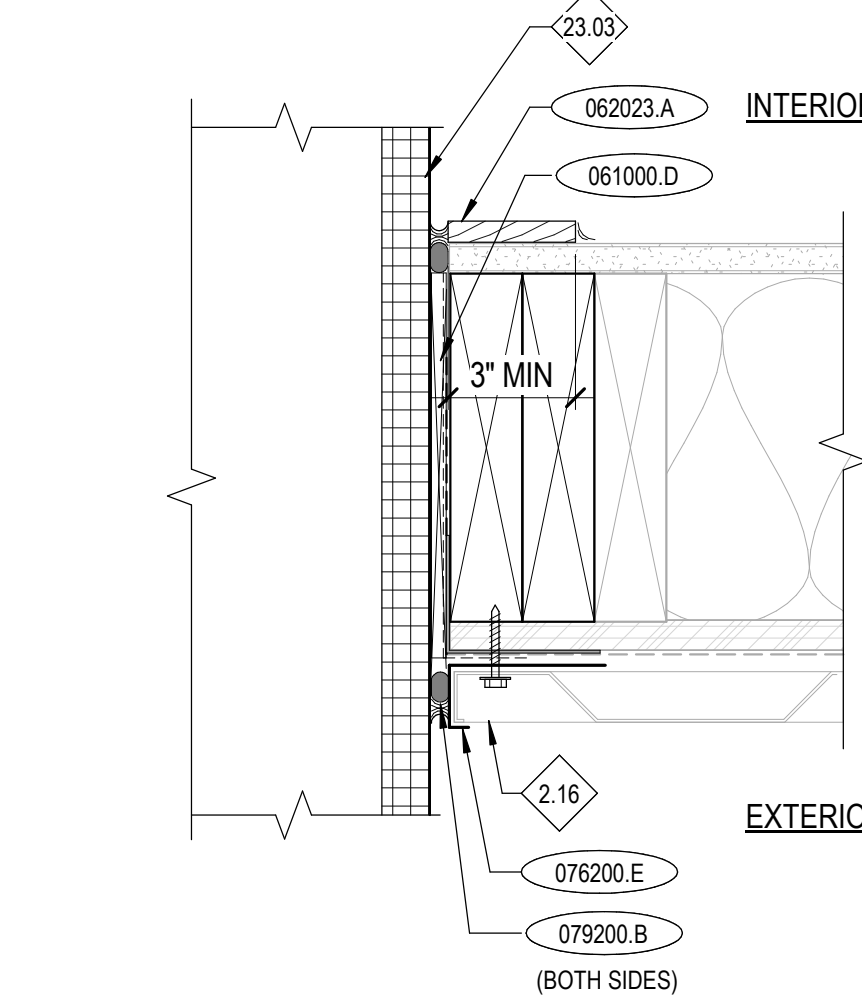
C5 DUCT JAMB @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"



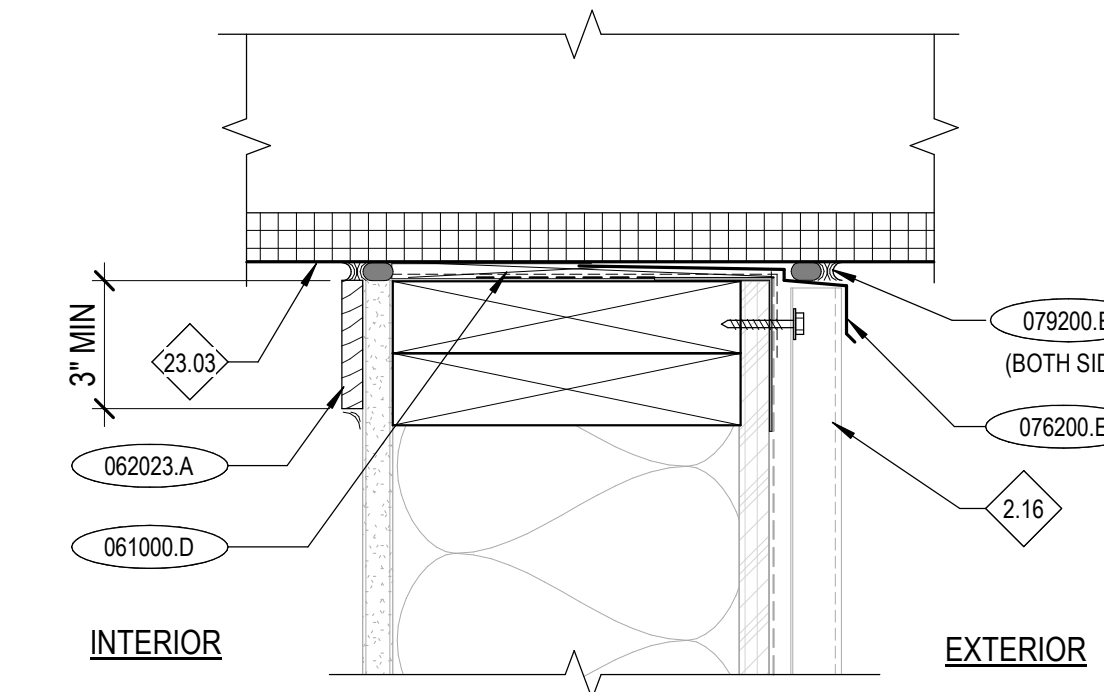
D5 DUCT SILL @ MASONRY EXTERIOR METAL SIDING
A4.91 3" = 1'-0"



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



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



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

KEYNOTES

- 061000.A DIMENSIONAL LUMBER
- 061000.D SHIMS AS REQUIRED
- 062023.A WOOD TRIM PAINT TO MATCH EXISTING
- 072500.A WEATHER RESISTIVE BARRIER
- 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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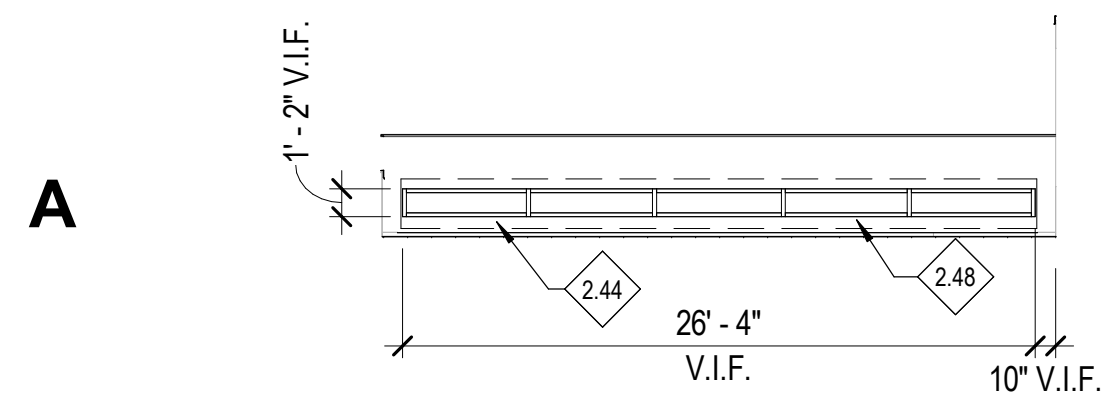
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EXTERIOR & INTERIOR
DETAILS

Revisions: Δ

Project No: 24074
Drawn By: NB
Checked By: PR
Date: 01/15/2025

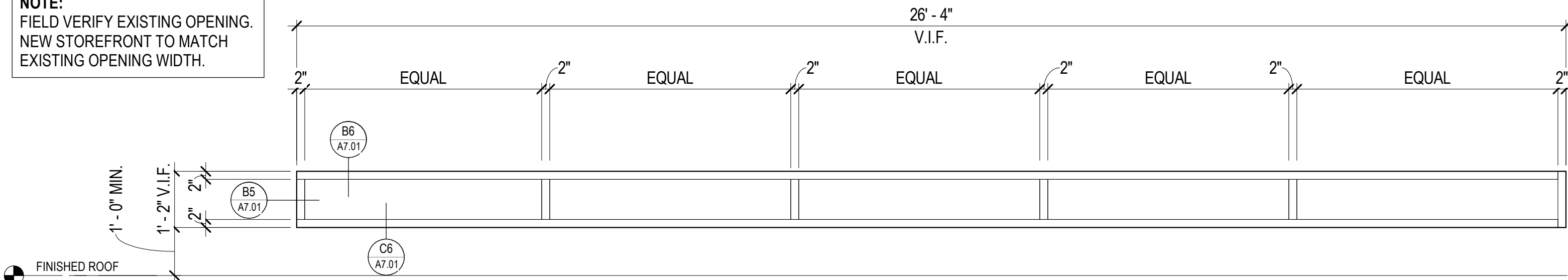
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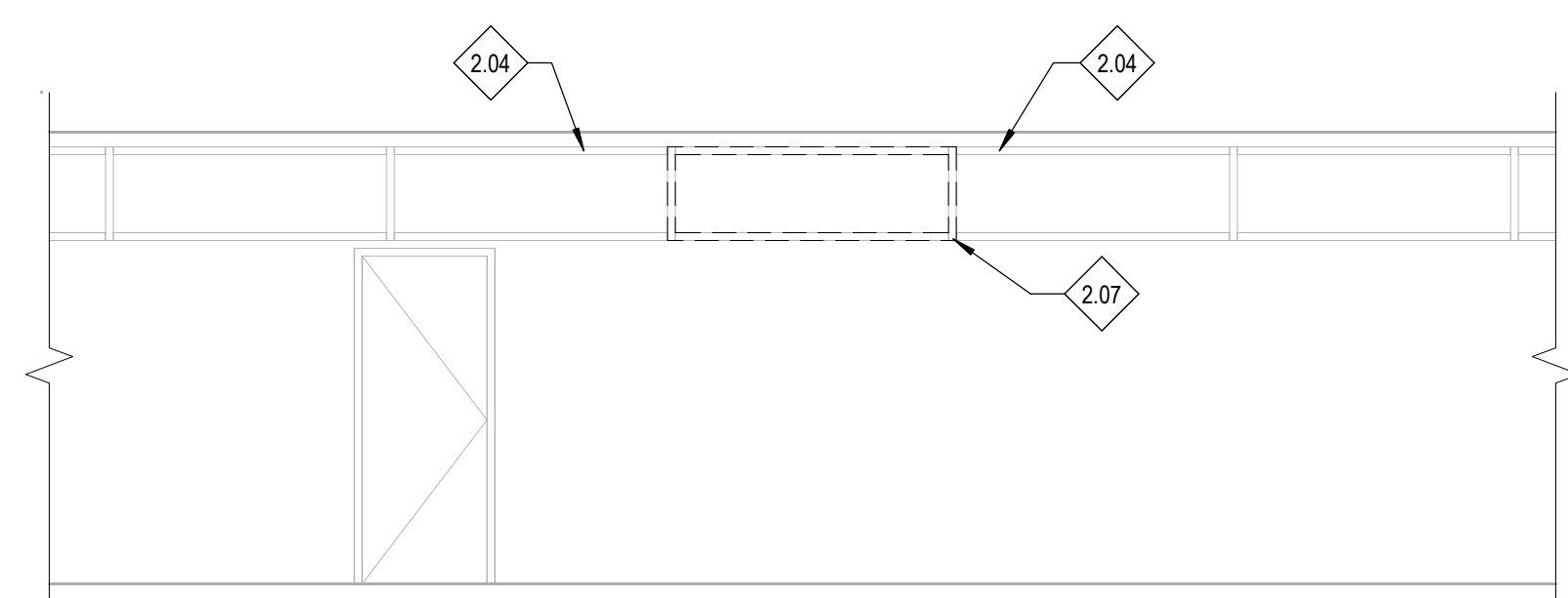


A1 HALLWAY CLEARSTORY
A7.01 1/8" = 1'-0"

NOTE:
FIELD VERIFY EXISTING OPENING.
NEW STOREFRONT TO MATCH
EXISTING OPENING WIDTH.

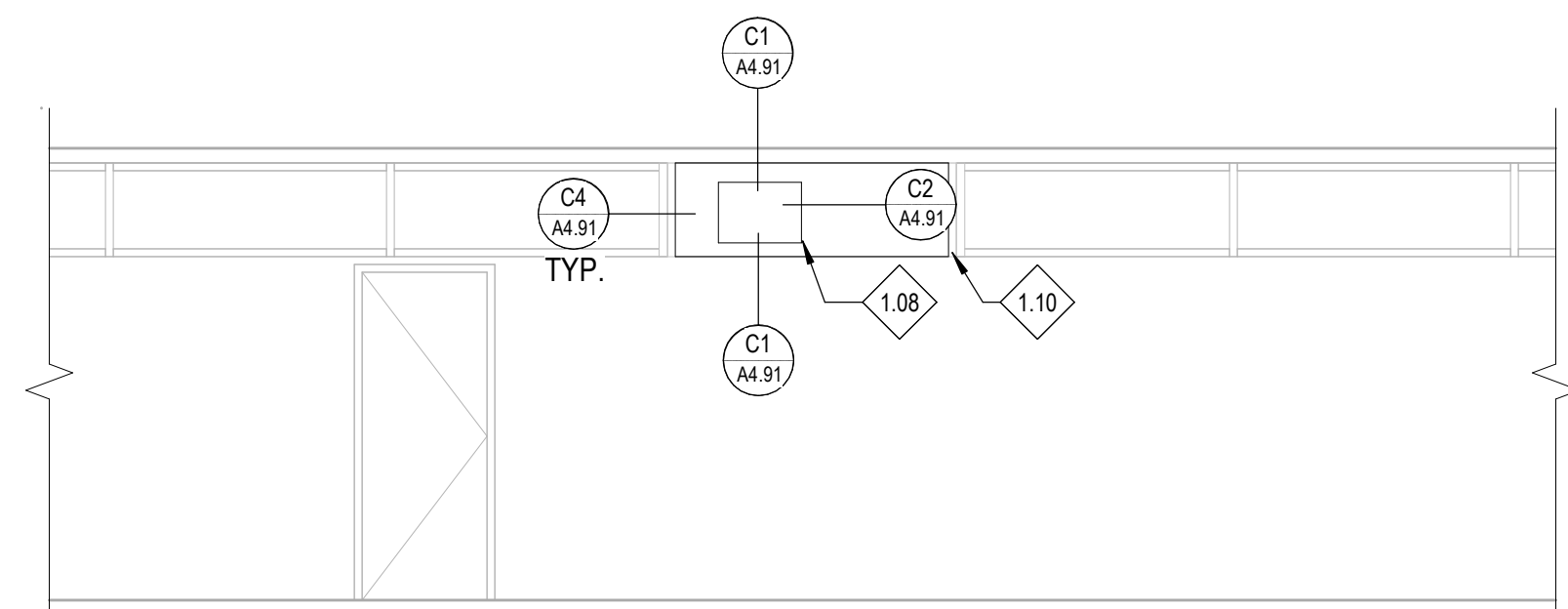


B



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

C



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

D

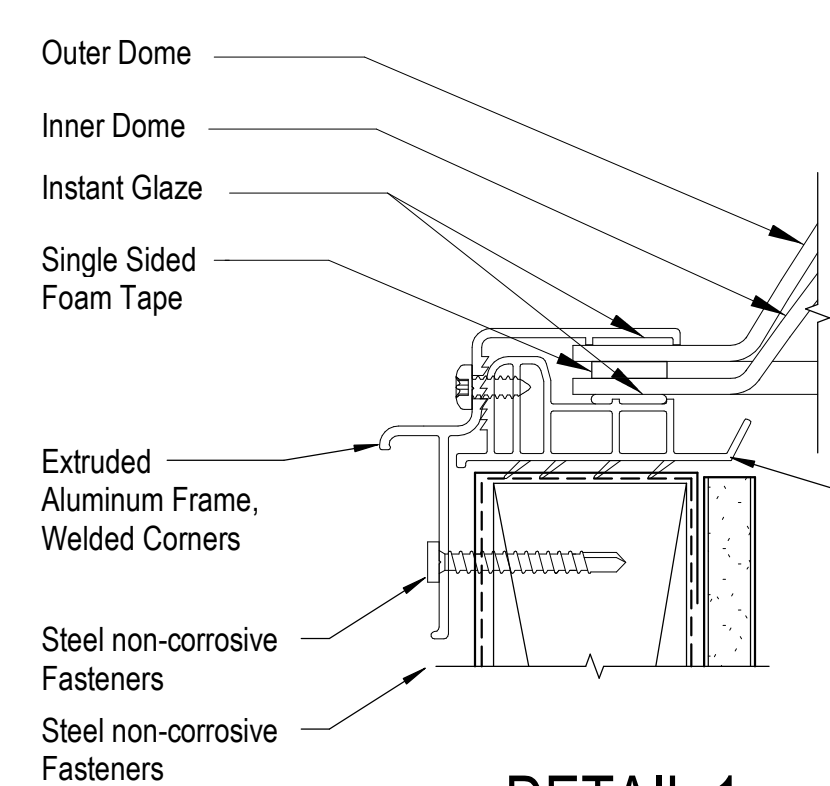
DOOR SCHEDULE																					
DOOR#	TYPE	WIDTH	HEIGHT	MATERIAL	FRAME			HARDWARE SET	REMARKS												
					TYPE	MATERIAL	FINISH		1.CARD READER	2.KEYED LOCK	3.KEY PAD	4.PRIVACY LOCK	5.ELECTRIC LOCK	6.AUTO DOOR OPENER	7.OPENER PADDLE	8.PROXIMITY READER	9.AUTO DOOR SENSOR	10.MAGNETIC HOLD OPEN	11.FIRE-RATING	12.SWINGS 180°	13.X-RAY LEAD DOOR
1	A	3'-0"	7'-0"	HM	HM-01	HM	P	HW-1													

HW SET 1:
FOR USE ON DOOR # 1
EACH TO HAVE:

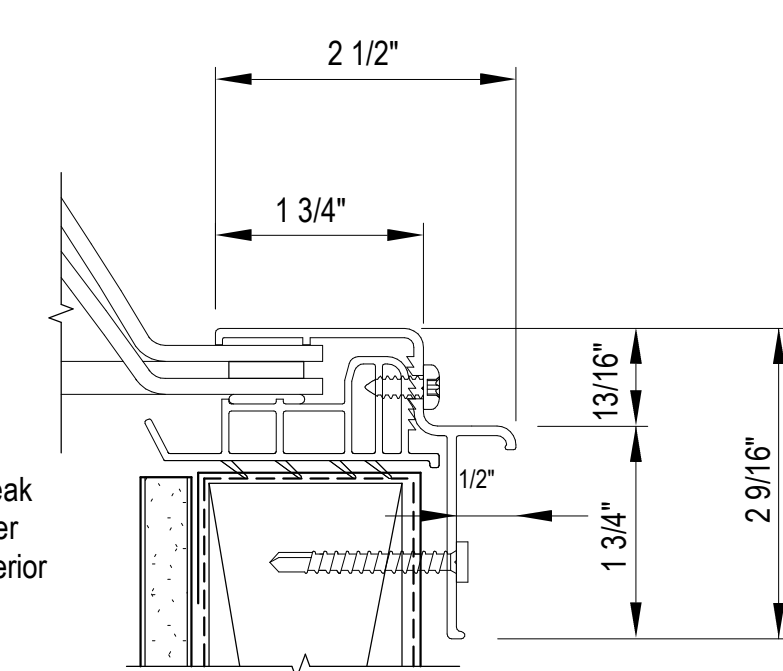
QTY	EA.	DESCRIPTION	QTY	IVE
3	EA.	HINGE	8891 4.5 X 4.5	652
1	EA.	SURFACE CLOSER	4040XP-MEDA	689
1	EA.	KICK PLATE	8400 10" X 2" LDW-B-CS	630
1	EA.	WALL STOP	WS406/407CCV	630
1	EA.	GASKETING	4885BK-PSA	8K
1	EA.	PANIC HARDWARE	S2108 X V4908A	630
1	EA.	CYLINDER	12E72-S2-RP	626

*KEYED TO DISTRICT STANDARD

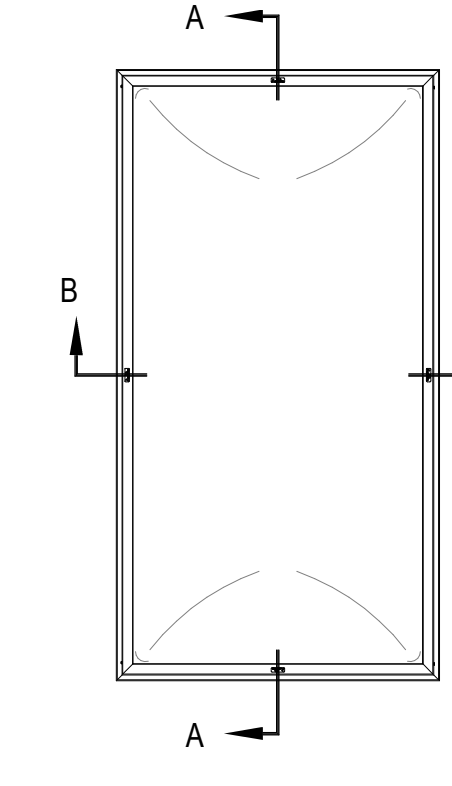
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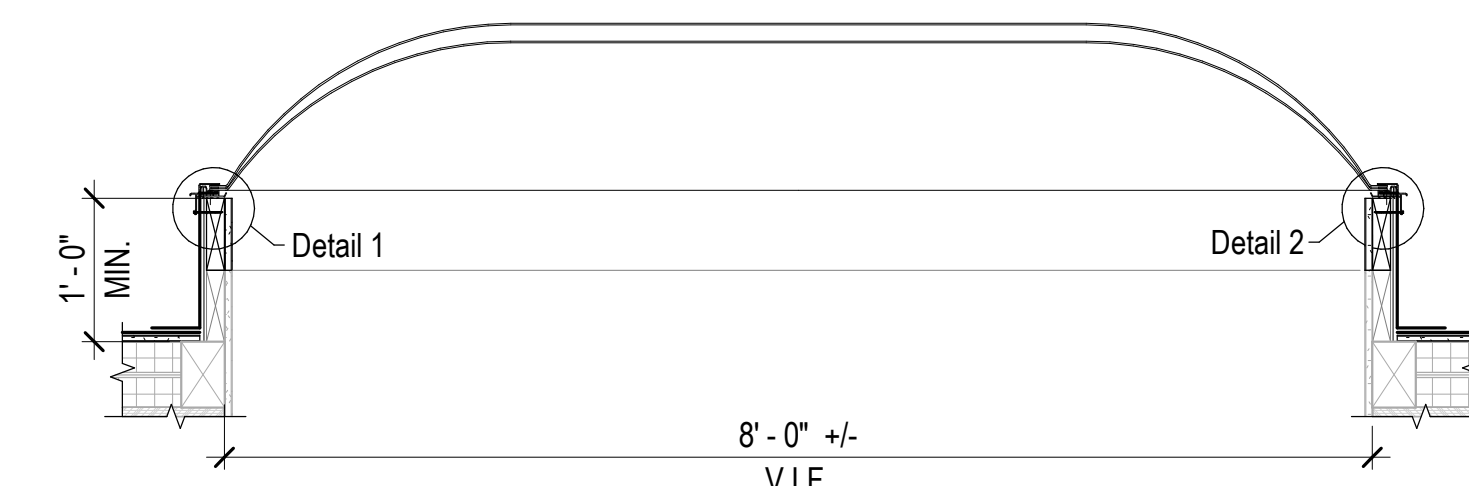
DETAIL 1



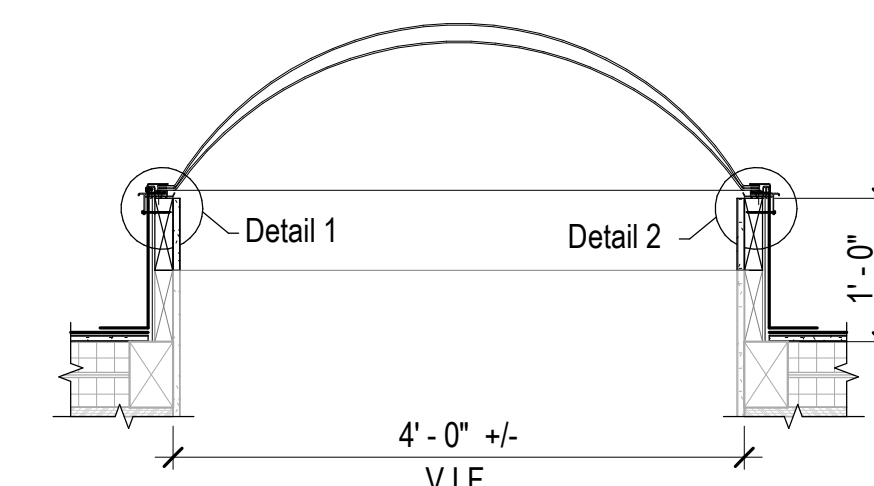
DETAIL 2



PLAN

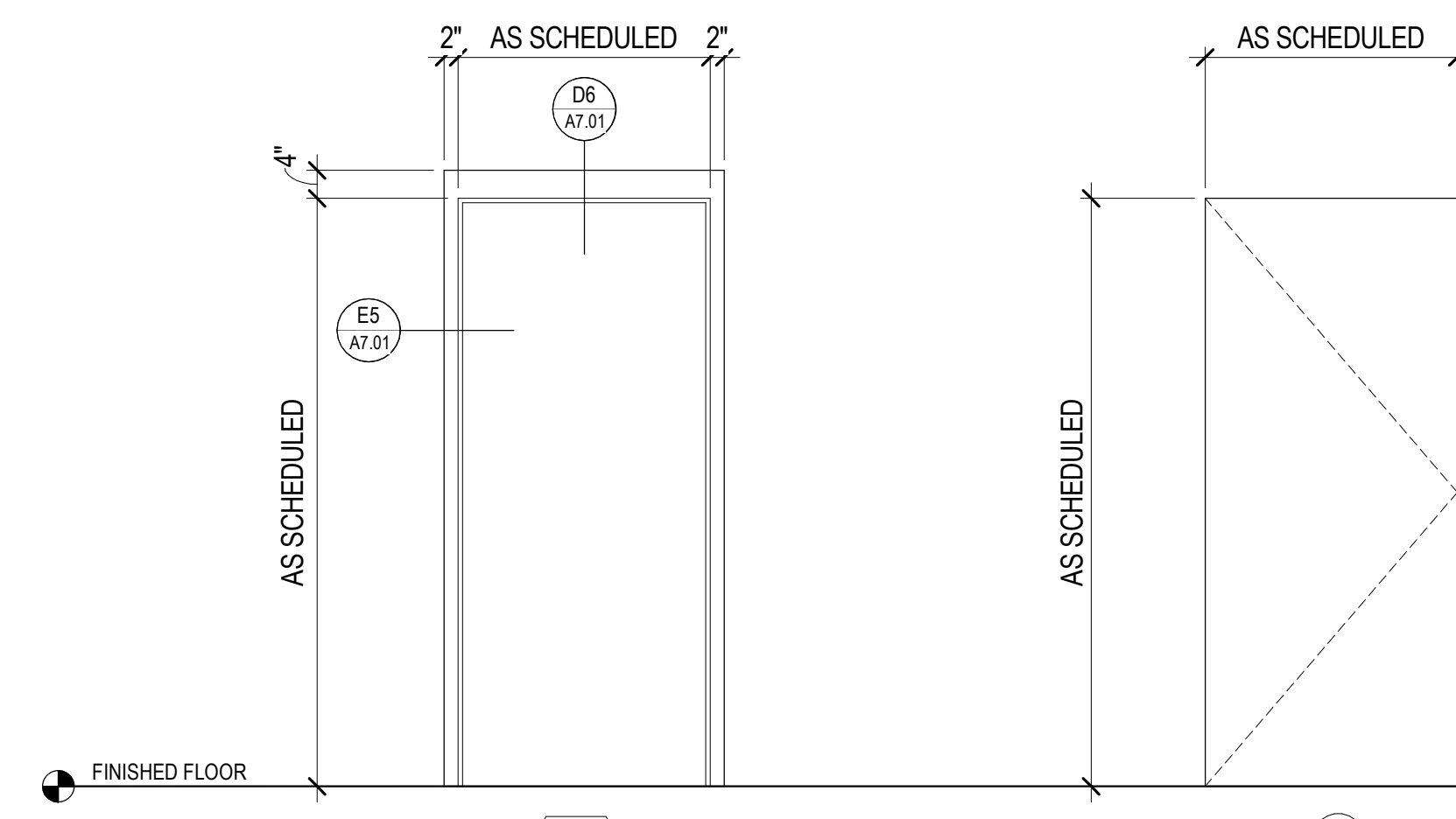


SECTION A-A



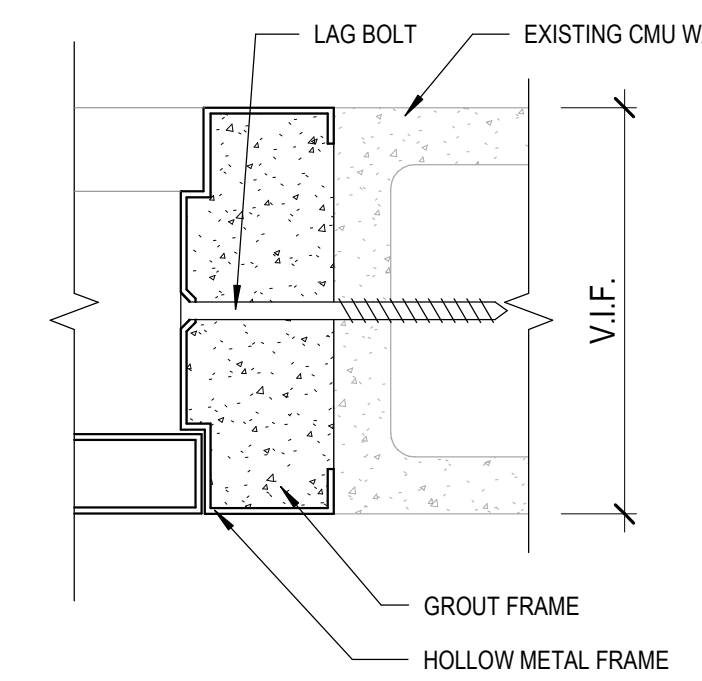
SECTION B-B

3D TYPICAL SKYLIGHT DETAIL
A7.01 3/4" = 1'-0"



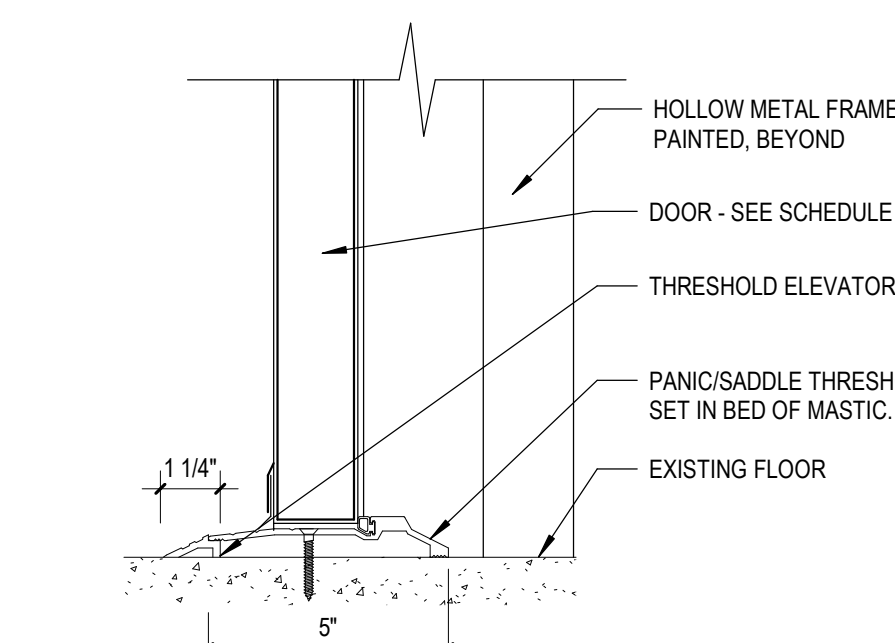
FRAME TYPE

DOOR TYPE

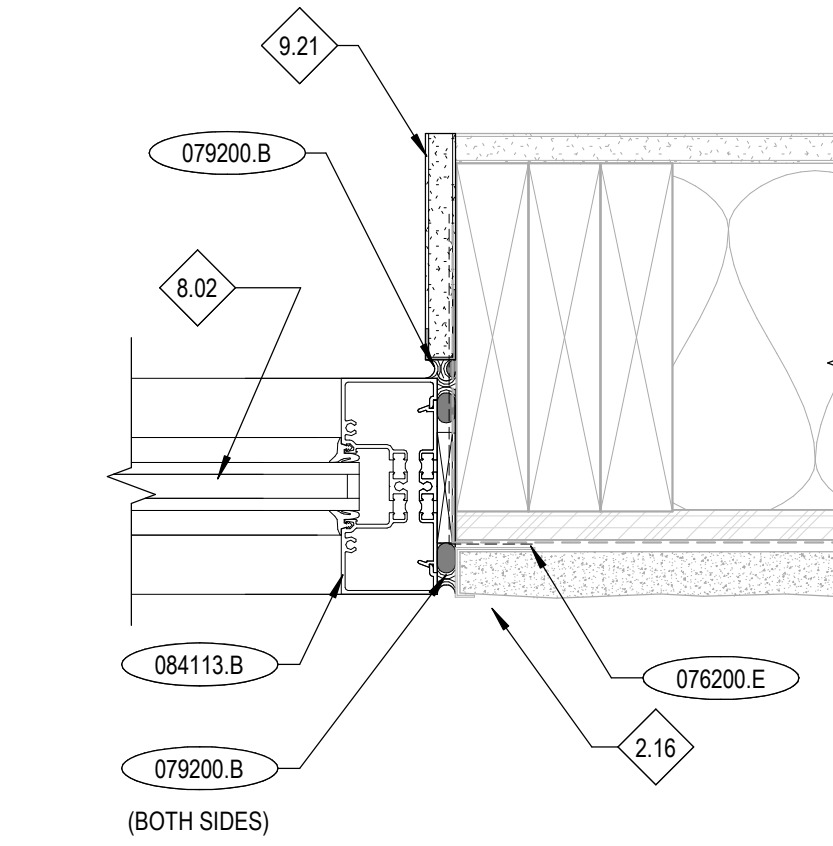


E5 DOOR JAMB @ CMU WALL
A7.01 3" = 1'-0"

D6 DOOR HEADER @ CMU WALL
A7.01 3" = 1'-0"

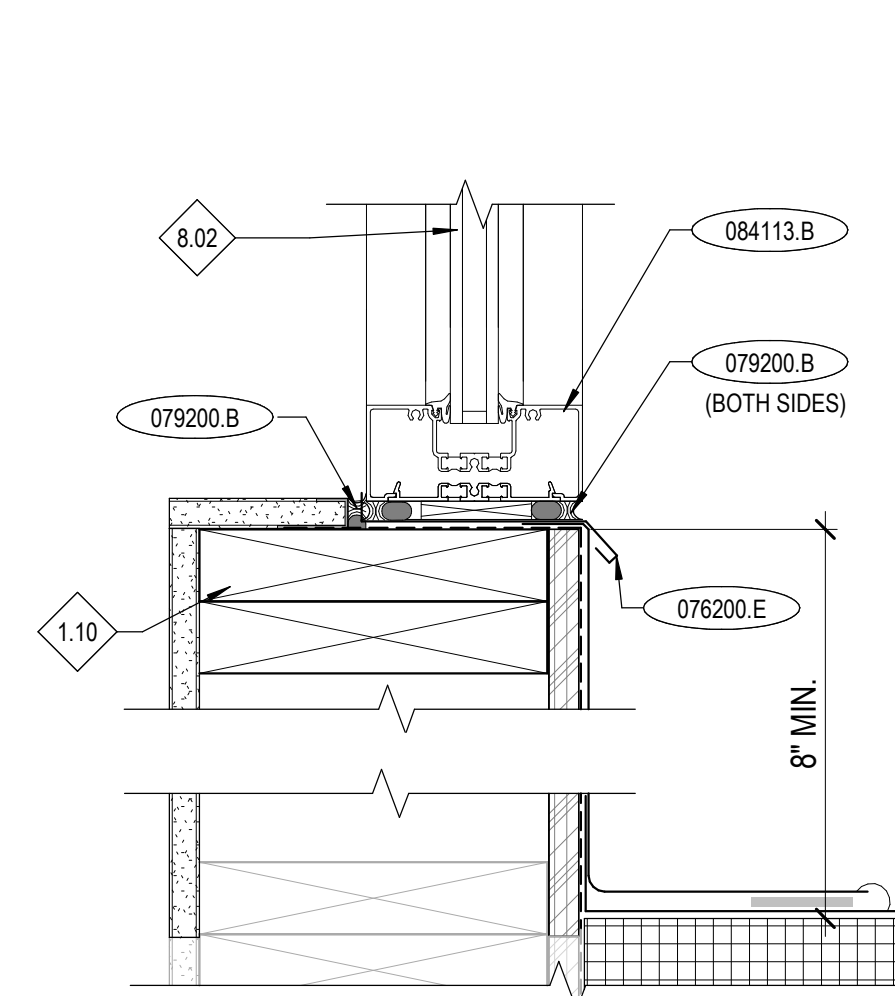


E6 DOOR SILL
A7.01 3" = 1'-0"

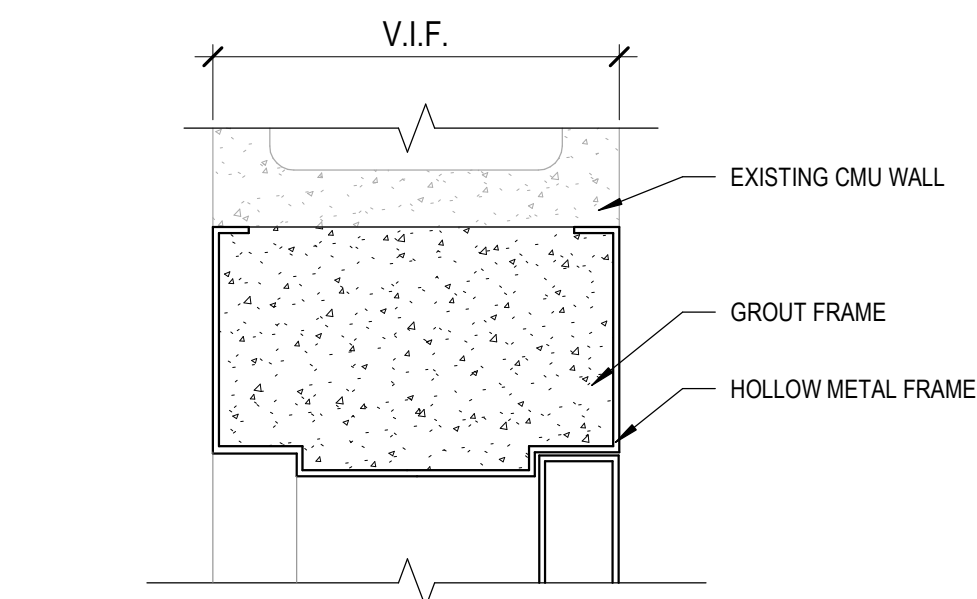


B5 STOREFRONT JAMB @ STUCCO
A7.01 3" = 1'-0"

B6 STOREFRONT HEAD
A7.01 3" = 1'-0"



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



GENERAL NOTES

- PROVIDE SAFETY GLAZING WHERE REQUIRED BY I.B.C. SECTION 2406 AND SPECIFICATION SECTION 08800 - GLAZING.
- FIELD VERIFY ALL ROUGH OPENING DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FABRICATION/INSTALLATION. REFERENCE PLANS AND ELEVATIONS FOR WINDOW LOCATIONS AND TYPES.

KEYNOTES

- 075423 B TPO SHEET FLASHING
- 075423 E ROOF INSULATION
- 076200 E FLASHING AND DRIP EDGE
- 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.
- 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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Sheet:
WINDOW & DOOR FRAME & DETAILS

Revisions: Δ

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01/15/2025
18-9867
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Project No: 24014
Drawn By: NB
Checked By: PR
Date: 01/15/2025

Sheet No: **A7.01**

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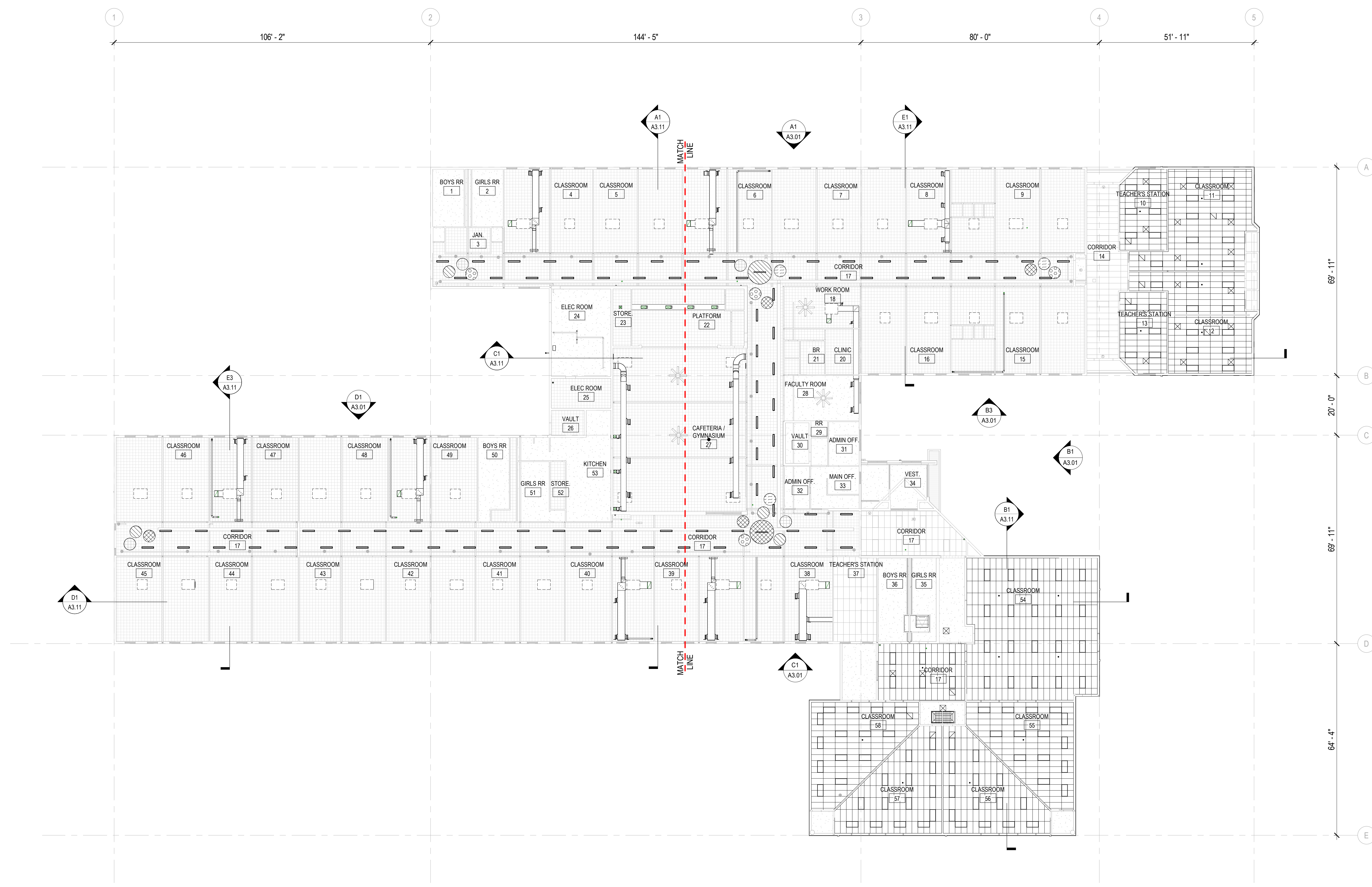
A

B

C

D

E



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

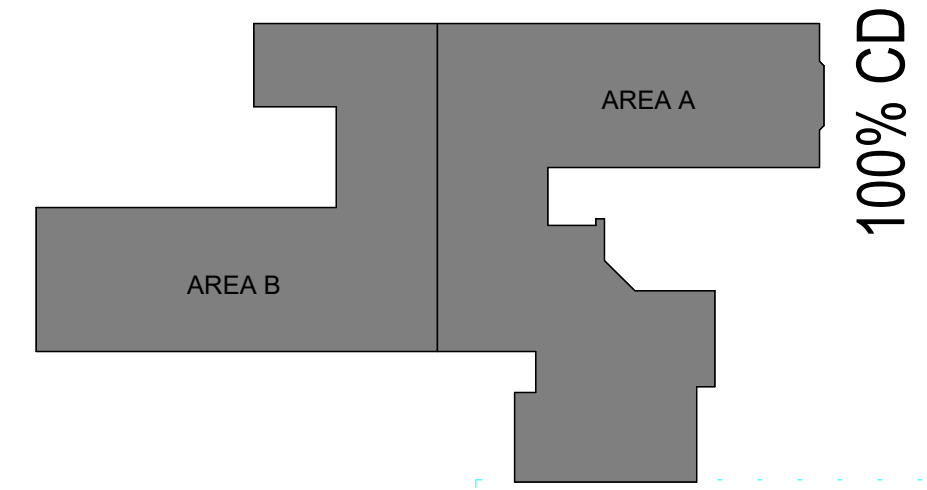
- 2' x 4' ACoustICAL CEILING METAL SUSPENSION SYSTEM WITH ACoustICAL PANEL CEILING UNITS, APC-1, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
- AREA OF CEILING INFILL
- LIGHTING FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
- MECHANICAL FIXTURES, COORDINATE WITH MECHANICAL DRAWINGS.
- ACCESS DOOR. RE: SPECIFICATION SECTION 077200B
- 8'-0" DIAMETER CIRCLE CLOUD
- 4'-0" DIAMETER CIRCLE CLOUD

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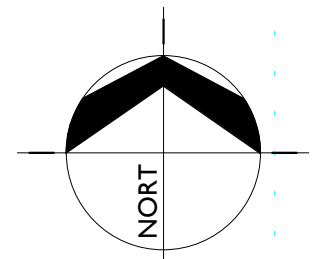
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Sheet:
COMPOSITE CEILING PLAN

E1 COMPOSITE CEILING PLAN
 A9.01 1/16" = 1'-0"



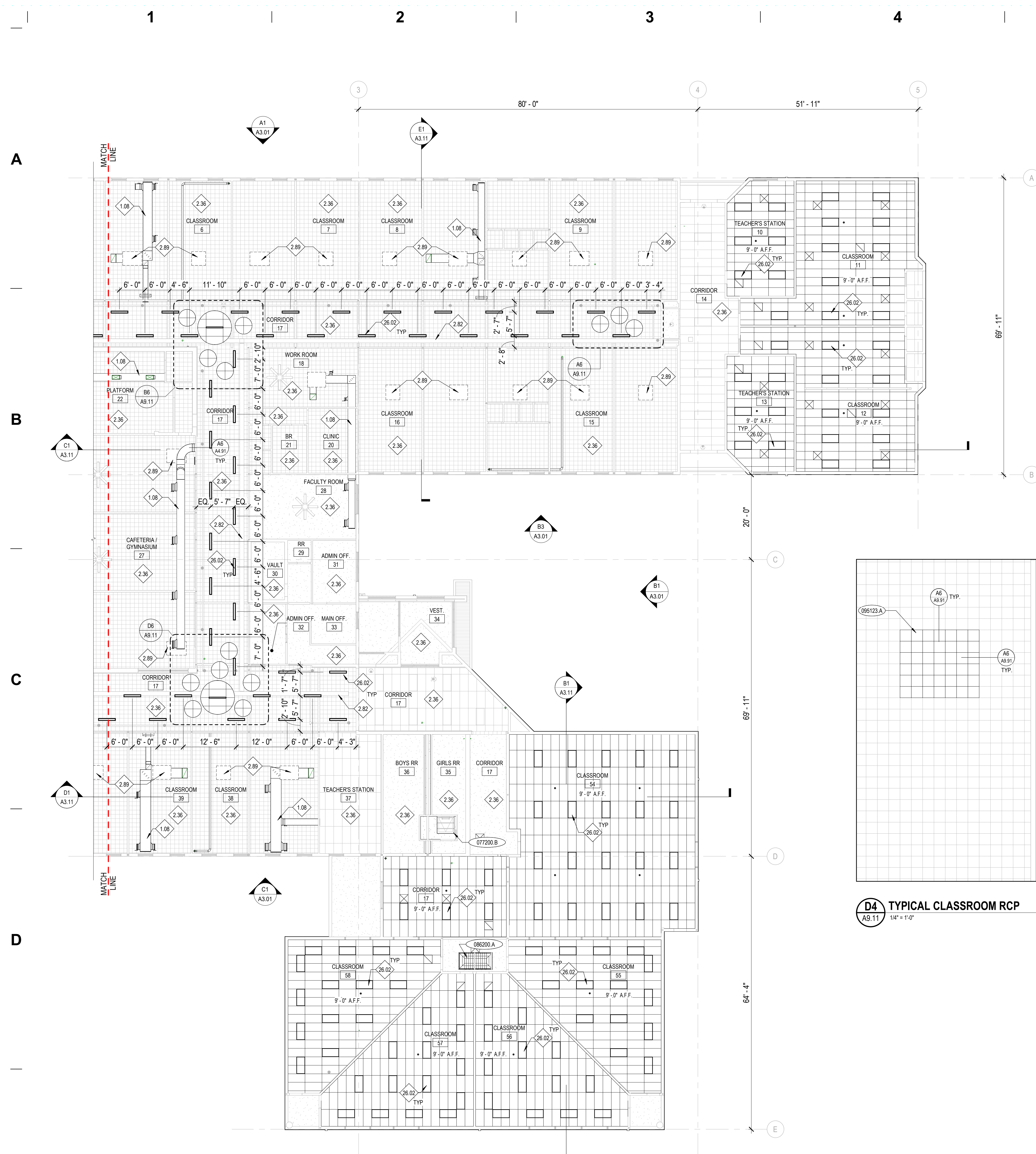
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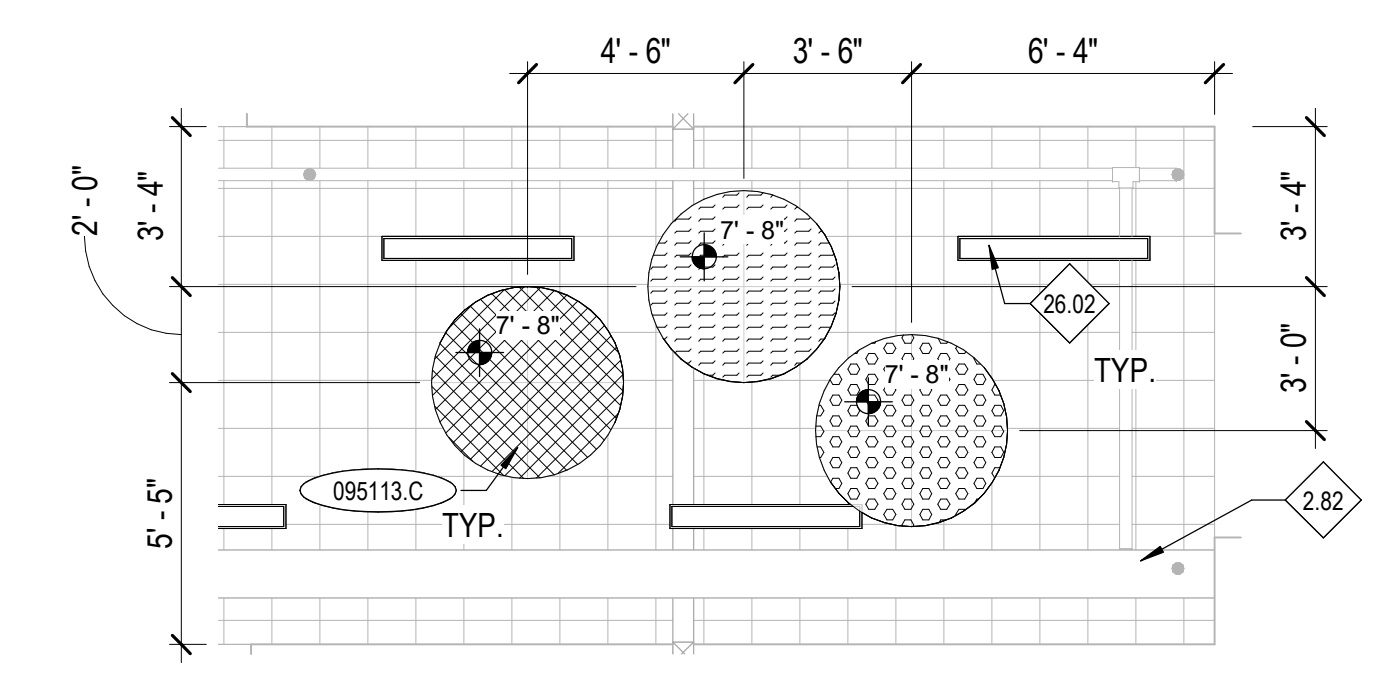
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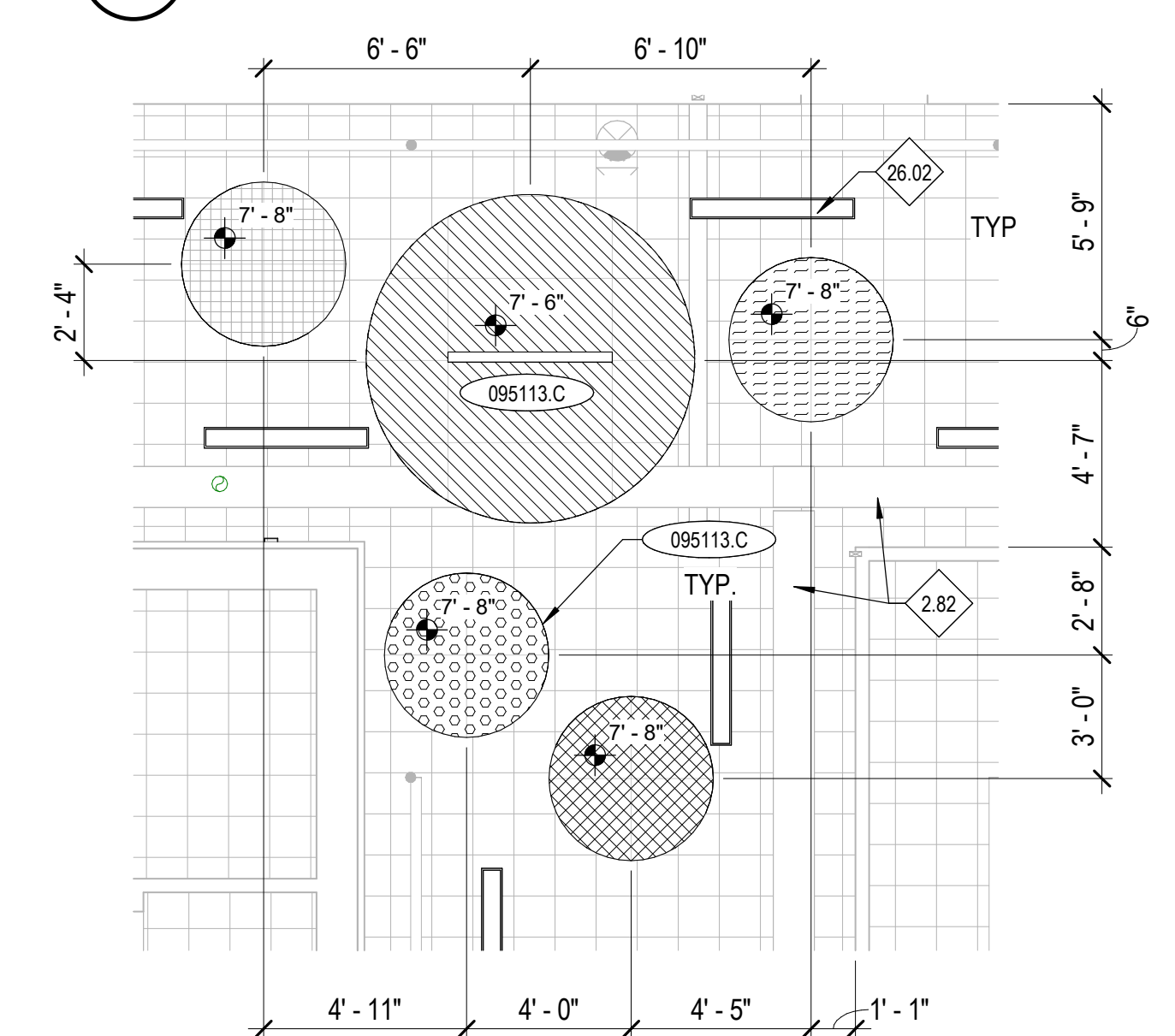
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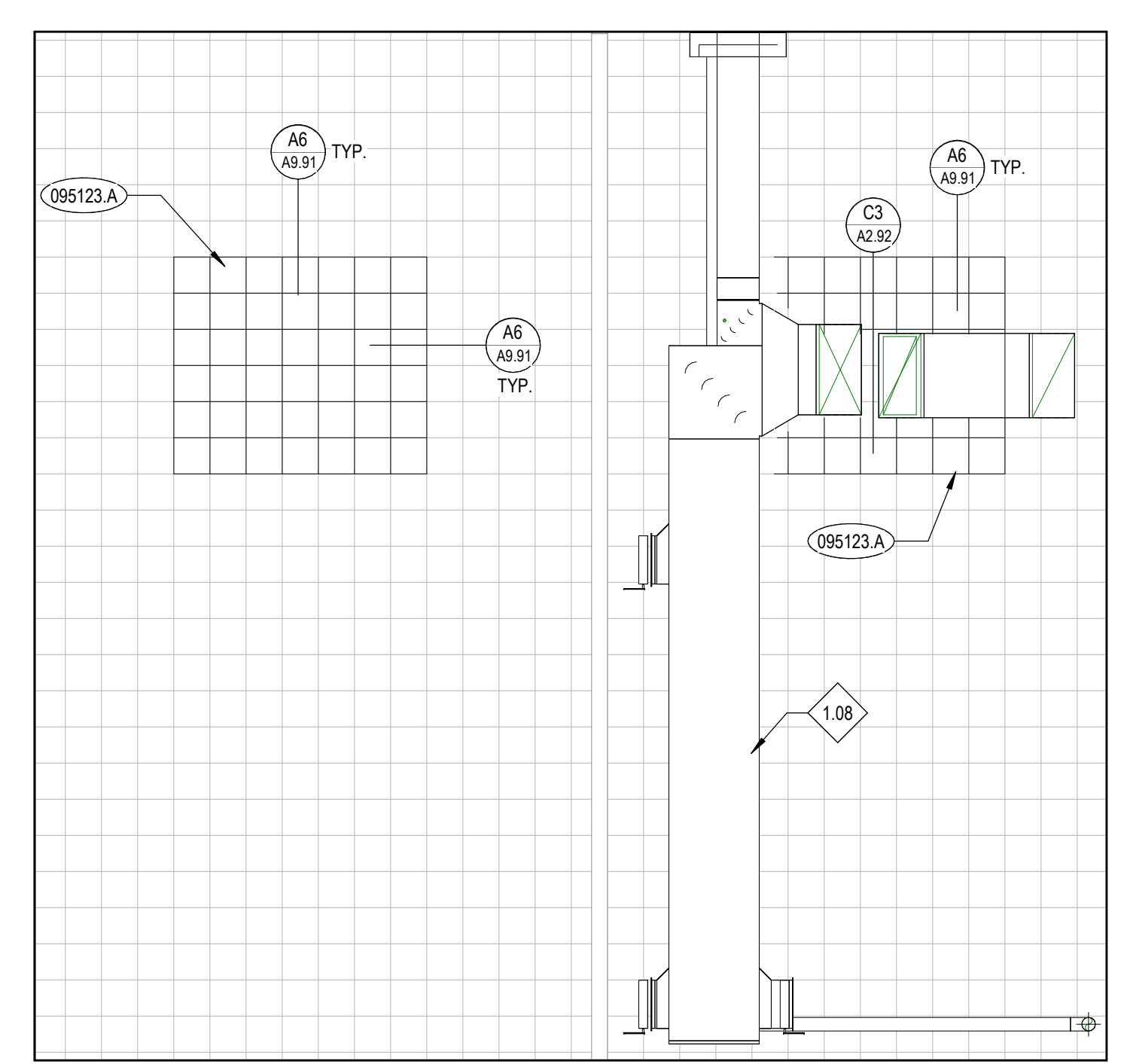
E1 AREA A CEILING PLAN
A9.11 3/32" = 1'-0"



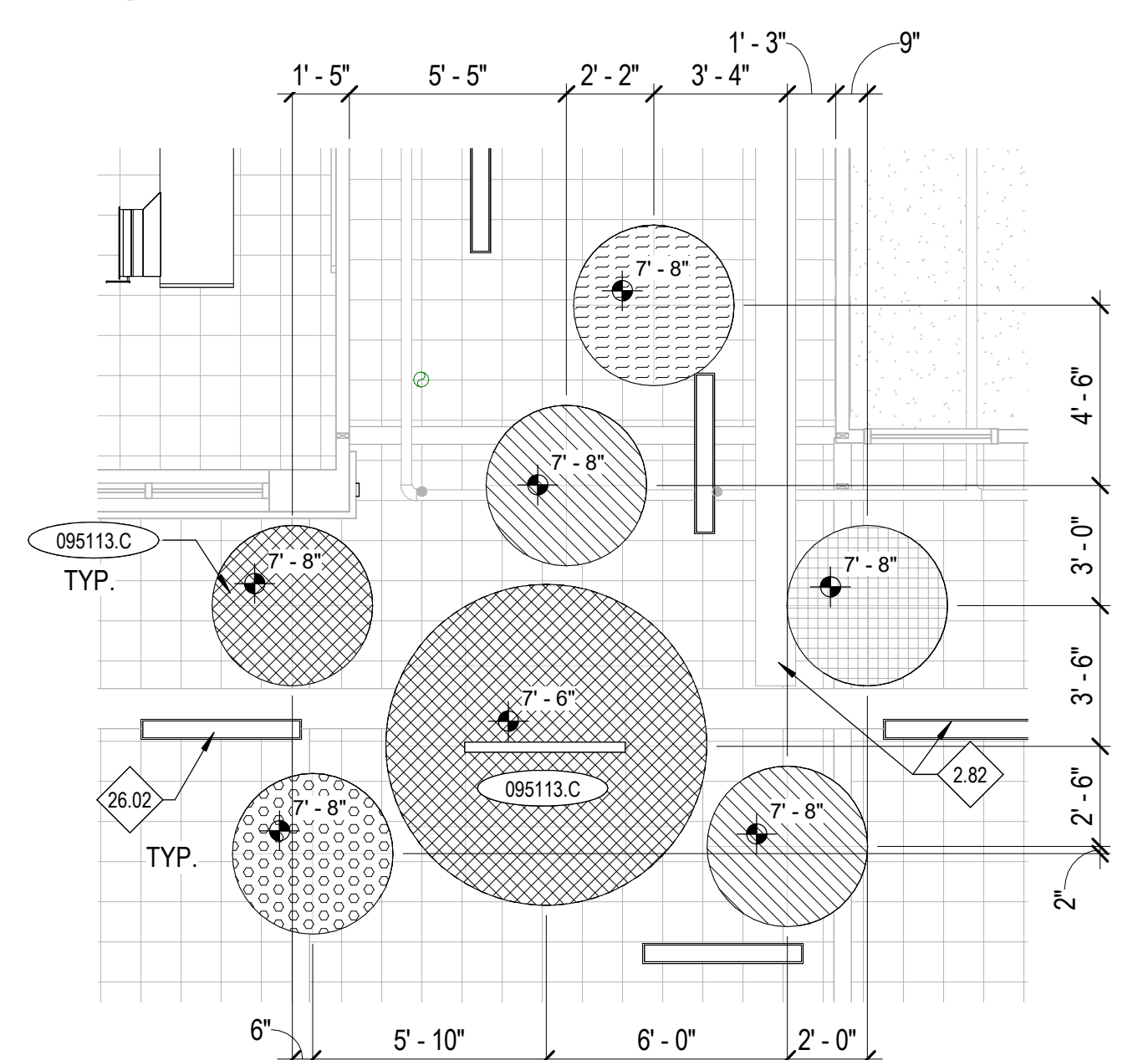
A6 SMALL CEILING CLOUD - EAST
A9.11 1/4" = 1'-0"



B6 LARGE CEILING CLOUD - NORTH
A9.11 1/4" = 1'-0"



D4 TYPICAL CLASSROOM RCP
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 ACUSTICAL 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 ACUSTIC 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

- 07200.B ROOF HATCH
08200.A FIBERGLASS-SANDWICH-PANEL SKYLIGHT ASSEMBLY
095113.C APC-3
095123.A ACUSTICAL 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.
2.82 Existing Data Tray 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' ACUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACUSTICAL 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.
- 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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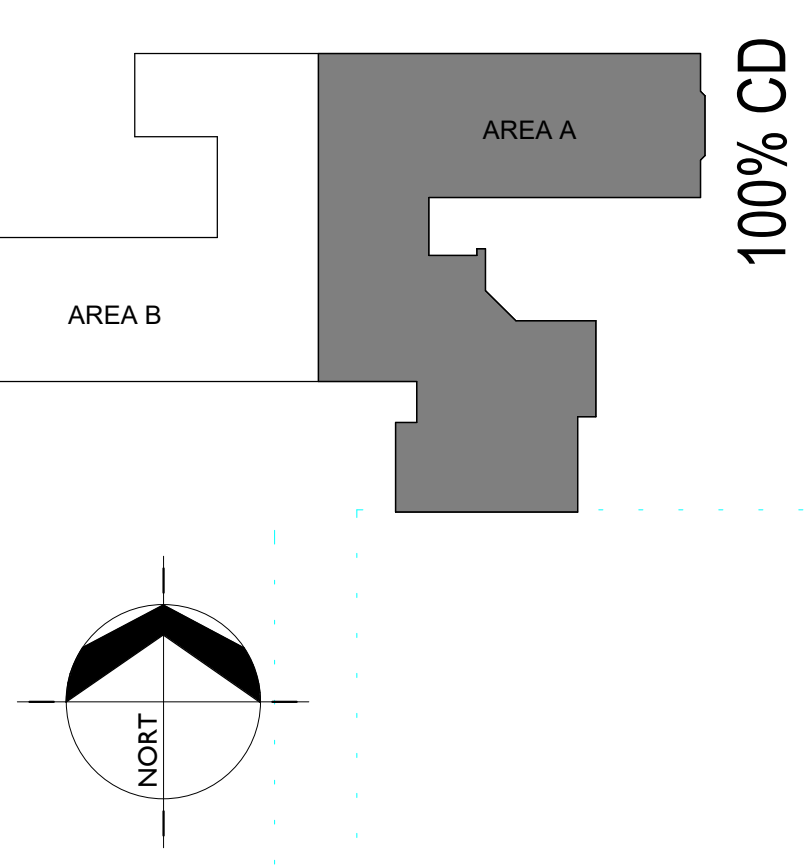
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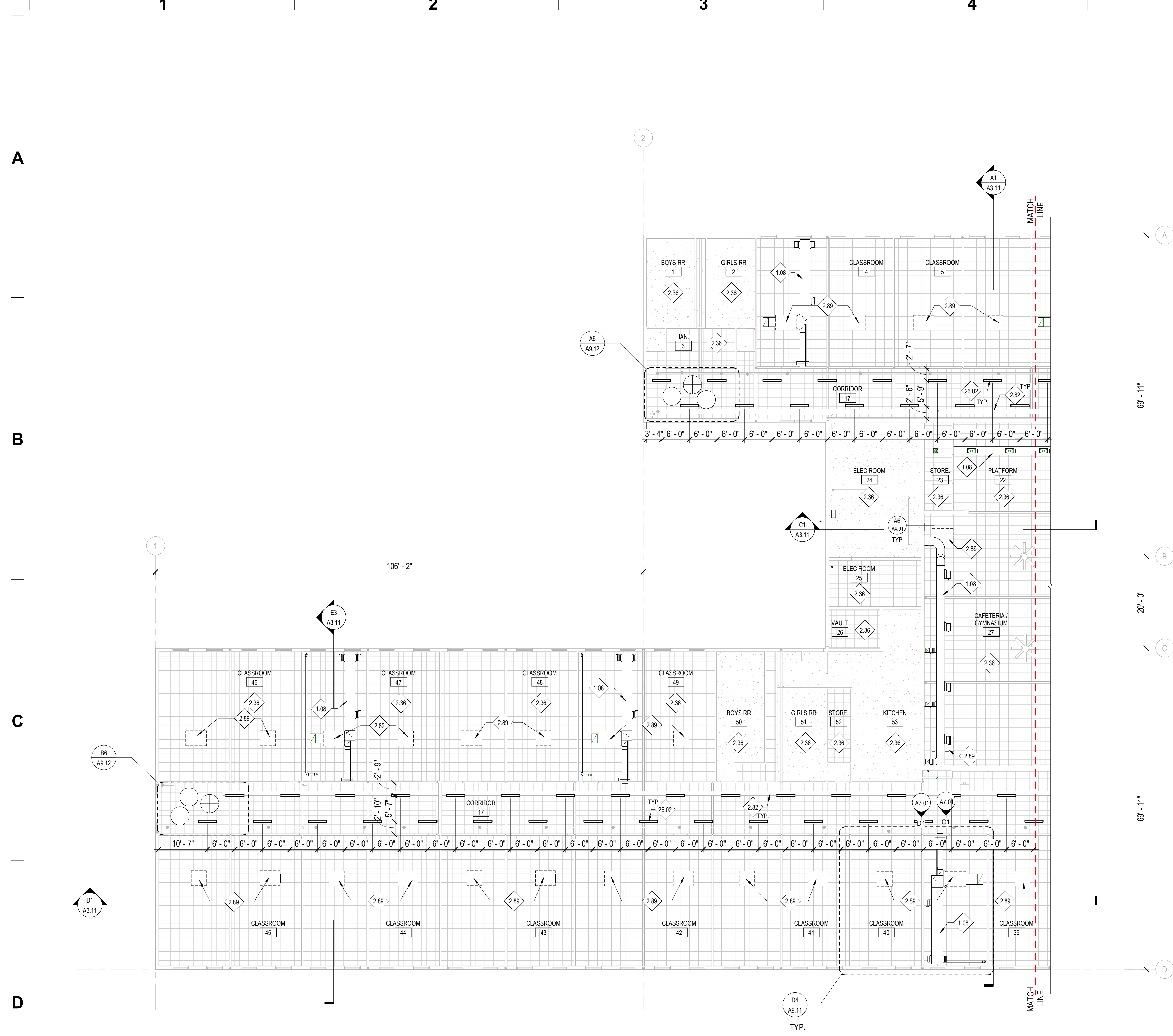
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DERRIAN F. COLEMAN

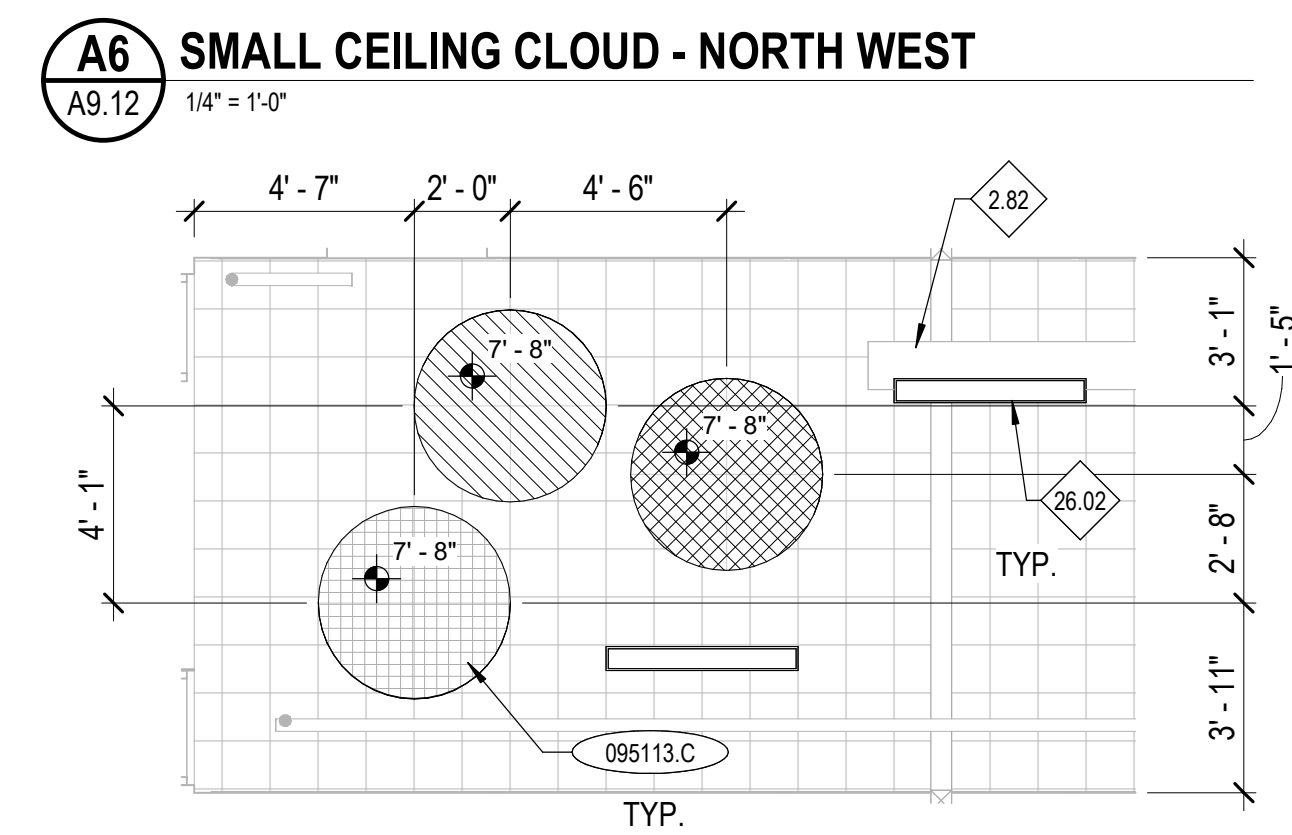
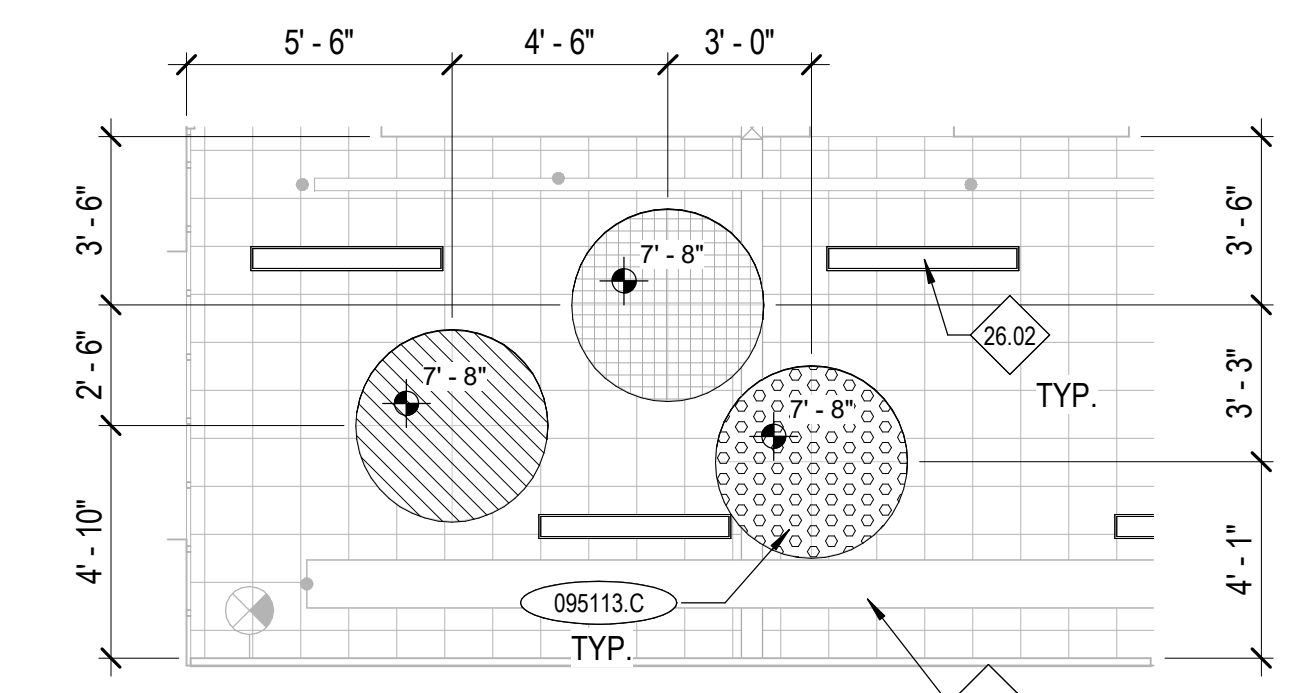
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Drawn By: NB
Checked By: PR
Date: 01/15/2025

Sheet No: **A9.11**





D1 AREA B CEILING PLAN
A9.12 3/2" = 1'-0"



GENERAL NOTES	
1.	COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE PROVIDED AT THE CEILING PLANE AND IN THE WORK.
2.	INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING PER PROVISIONS OF ASTM C 635 AND ASTM C 636.
3.	COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZES OF ALL CEILING GRILLES, DIFFUSERS, FIXTURES, CANS, AND ALL RELATED ITEMS.
4.	PAIN ALL EXPOSED-TO-VIEW STRUCTURAL DECK, BEAMS AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
5.	PAIN 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".
6.	RE: DIVISION 9 SECTION "INTERIOR PAINTING" FOR ACOUSTIC CEILING TILE PAINT SYSTEM.
7.	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.
8.	PAIN 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

REFERENCE NOTES	
1.08	MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
2.36	Existing Ceiling Tray To Remain. Protect In Place.
2.82	Existing Data Tray 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

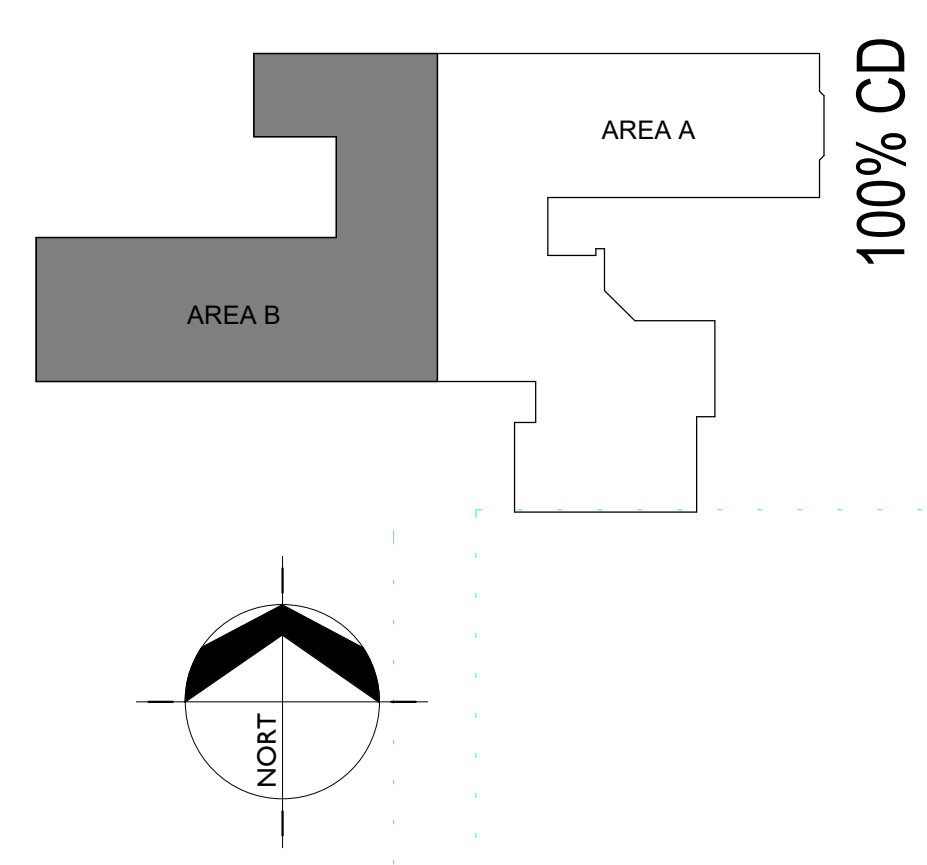
LEGEND	
	2 x 4' ACOUSTICAL CEILING METAL SUSPENSION SYSTEM WITH ACOUSTICAL PANEL CEILING UNITS, APC-1, U.N.O. RE: DIVISION 09 - FINISHES IN THE SPECIFICATIONS
	AREA OF CEILING INFILL
	LIGHTING FIXTURES. COORDINATE WITH ELECTRICAL DRAWINGS.
	MECHANICAL FIXTURES. COORDINATE WITH MECHANICAL DRAWINGS.
	CEILING HEIGHT ABOVE FINISH FLOOR
	ACCESS DOOR. RE: SPECIFICATION SECTION 072200 B
	6'-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

HUMMEL ARCHITECTS

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Project:
MORNINGSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
AREA 'B' CEILING PLAN



Revisions:

Project No: 24074
 Drawn By: NB
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Sheet No:
A9.12

1

2

3

4

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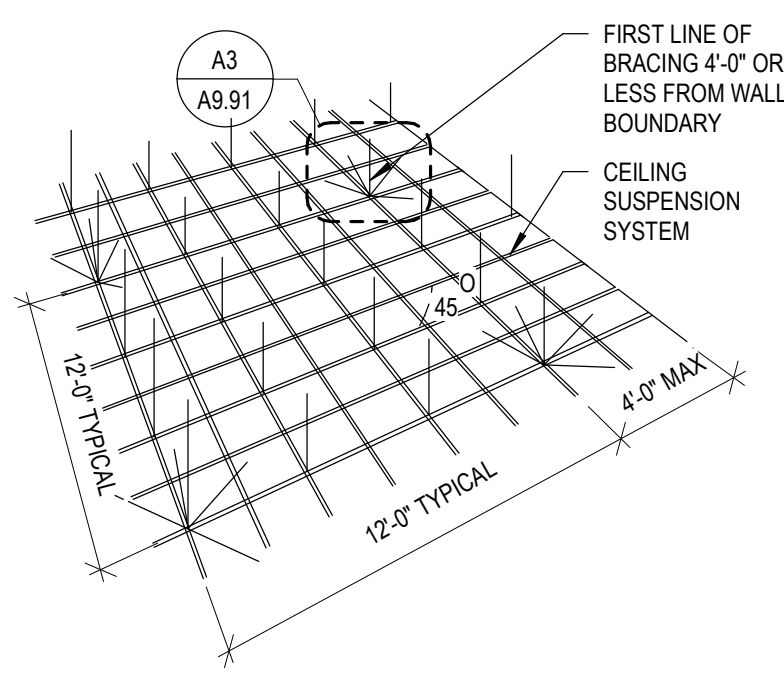
A

B

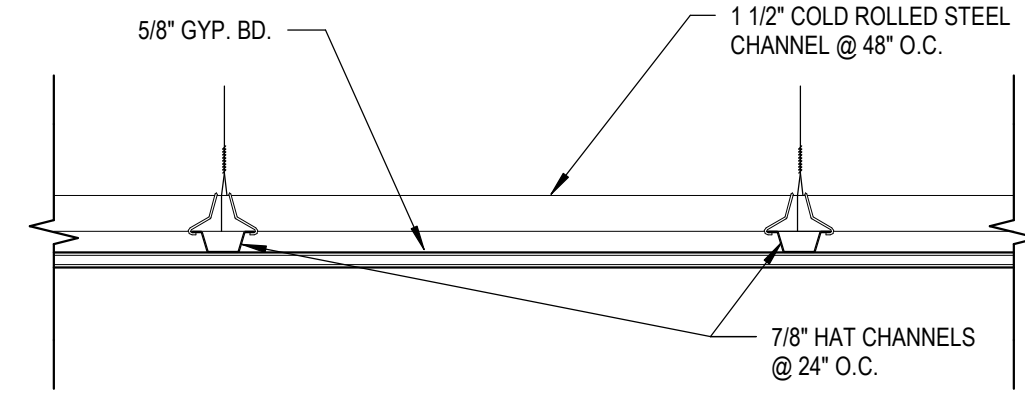
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D

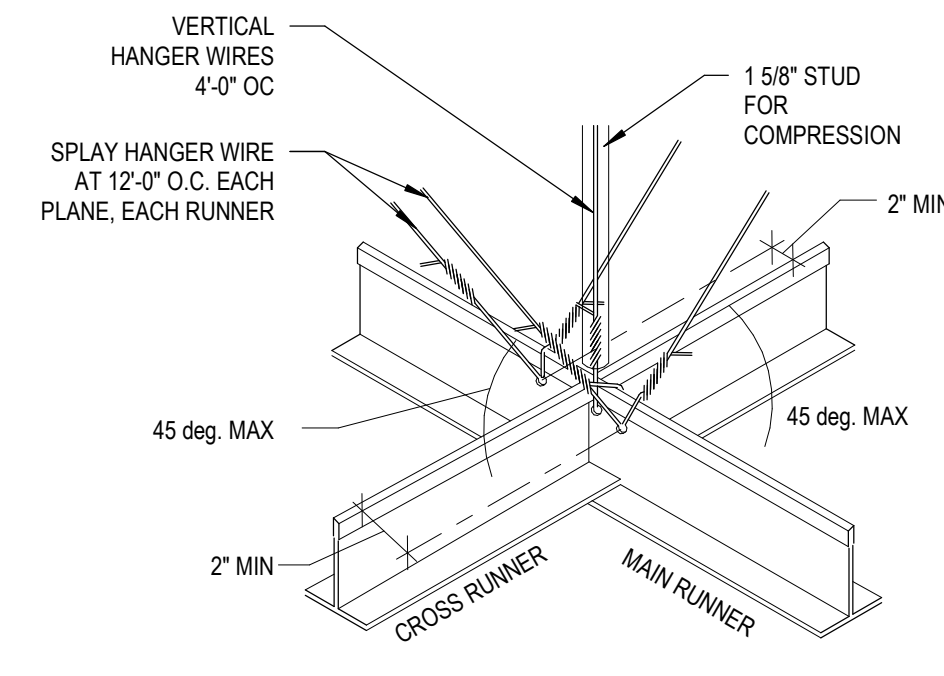
E



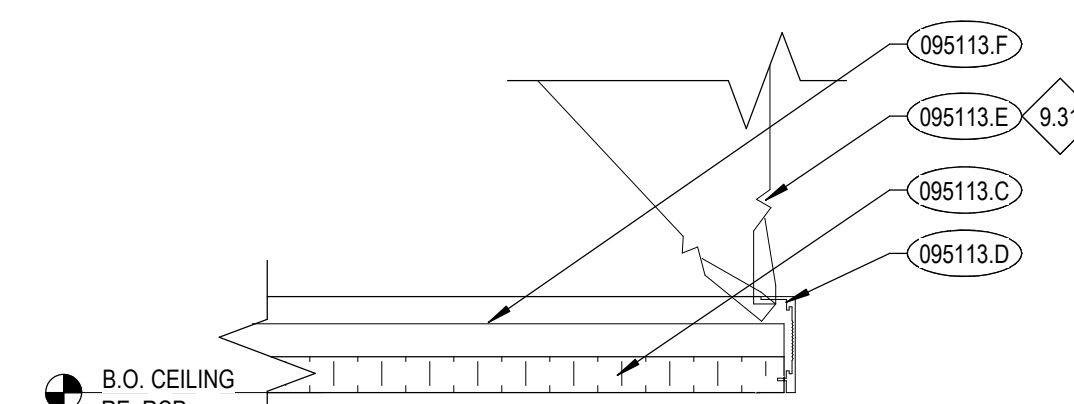
A1 TYPICAL SEISMIC BRACING DETAIL-02
A9.91 NOT TO SCALE



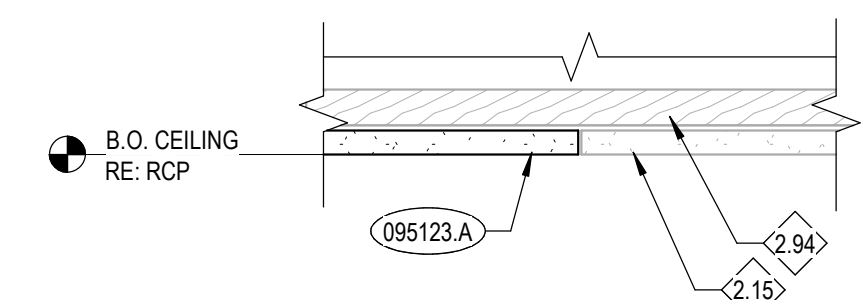
A2 SUSPENDED CEILING DETAIL
A9.91 3" = 1'-0"



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.
- 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.
- PAIN ALL EXPOSED-TO-VIEW STRUCTURAL DECK, BEAMS AND ASSOCIATED STRUCTURAL ITEMS PAINT COLOR P-9, UNLESS OTHERWISE NOTED. RE: DIVISION 9 SECTION "INTERIOR PAINTING".
- PAIN ALL EXPOSED-TO-VIEW MECHANICAL DUCTWORK AND ASSOCIATED ITEMS, ELECTRICAL CONDUIT, 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.
- PAIN 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
- 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.
- 2.94 EXISTING 3/4" STRIPPING
- 9.31 CROSS BRACING PER MANUFACTURERS INSTRUCTIONS

HUMMEL ARCHITECTS

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Project:
MORNINGSIDE ELEMENTARY SCHOOL HVAC REPLACEMENT
Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
CEILING DETAILS

100% CD



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STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE LOG			
		100% CD	85% 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

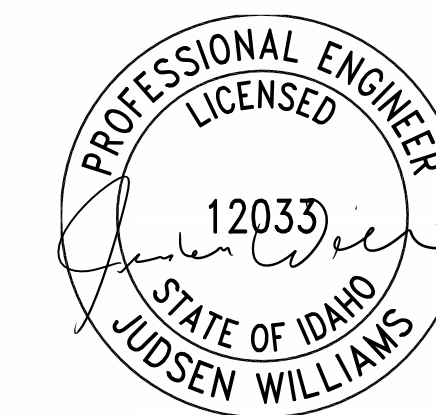
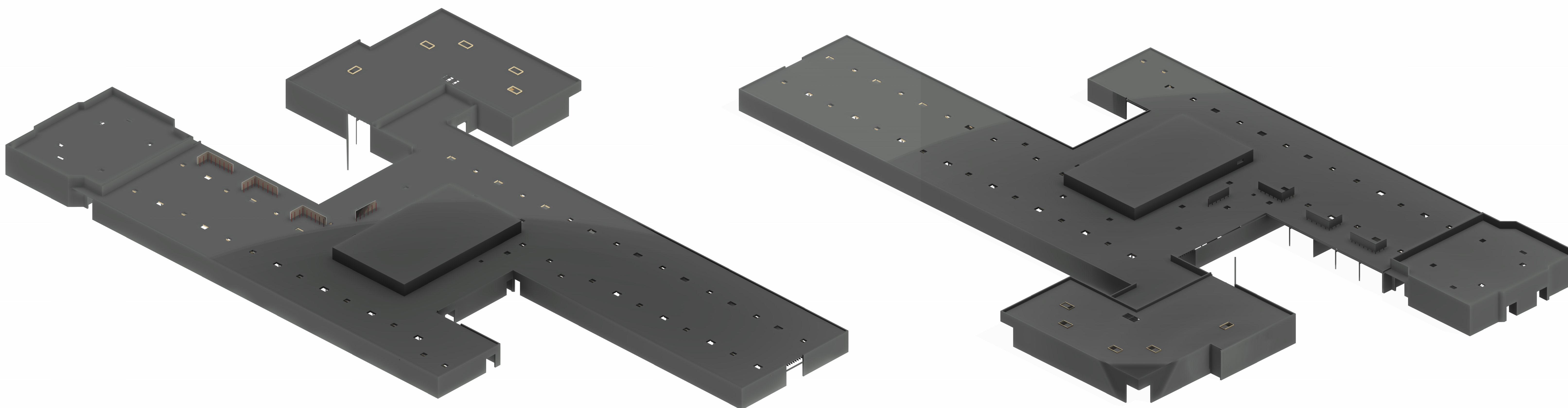
STRUCTURAL ABBREVIATIONS

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

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.		
	PLAN NORTH		
	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:
 TFSD DISTRICT WIDE HVAC
 REPLACEMENT

Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
 ABBREVIATIONS, SYMBOLS AND SHEET
 INDEX

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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	$S_s = 0.192$ $S_1 = 0.082$
SITE CLASS	D-DEFAULT
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	$S_{DS} = 0.205$ $S_{D1} = 0.131$
SEISMIC DESIGN CATEGORY	B

BUILDING PARAMETERS	
SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS
SEISMIC RESPONSE COEFFICIENTS	$C_s = 0.103$
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	$V = 101.4$ 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:

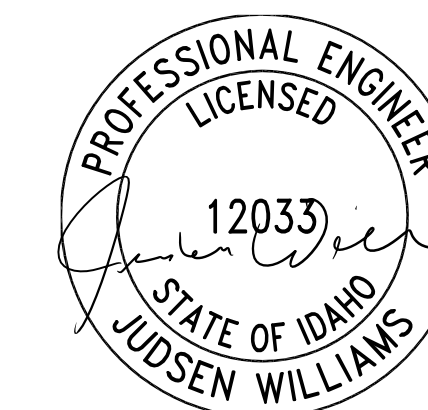
- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL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

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
GENERAL STRUCTURAL NOTES

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ROUGH CARPENTRY:**GENERAL:**

- 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:

- 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%)

- 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.

- 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.

- 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:

- 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.

- 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.

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

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

- 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.

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

GLUED-LAMINATED CONSTRUCTION:**GENERAL:**

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

PRODUCTS:

- 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

- APPEARANCE GRADE:

a. ARCHITECTURAL WHEN EXPOSED TO VIEW

b. INDUSTRIAL WHEN CONCEALED FROM VIEW

EXECUTION:

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

STRUCTURAL STEEL:**GENERAL:**

- 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"

- 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)

- 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:

- 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:

- 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 CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.

- 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:**

- COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.

- MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY MIXED CONCRETE PRODUCTION FACILITIES."

PRODUCTS:

- 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:

- 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.

- 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.

- 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.

- 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.

- 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".

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

REINFORCING STEEL:**GENERAL:**

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

PRODUCTS:

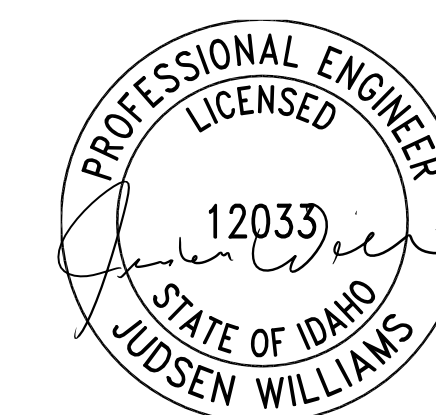
- REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED

- WELDED WIRE REINFORCEMENT (WWR): ASTM A1064

EXECUTION:

- 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	#6 & 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"



Project:
TFSD DISTRICT WIDE HVAC
REPLACEMENT

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
GENERAL STRUCTURAL NOTES

Revisions:

Project No: 10212400110
Drawn By: DPC/KK
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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, INSPECTION 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, TESTING 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, TESTING 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, TESTING FREQUENCY (CONTINUOUS, PERIODIC), REMARKS. Includes section for MECHANICAL AND ELECTRICAL.

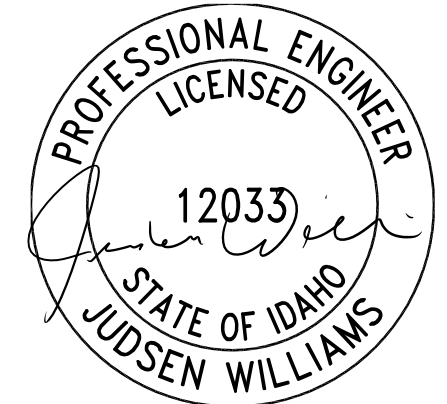
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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT
Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet: STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

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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 843 (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.

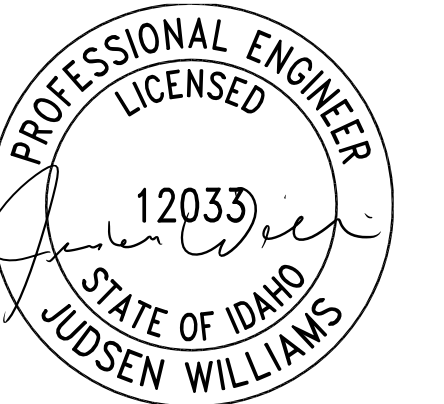
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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT
Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet: STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

BID SET

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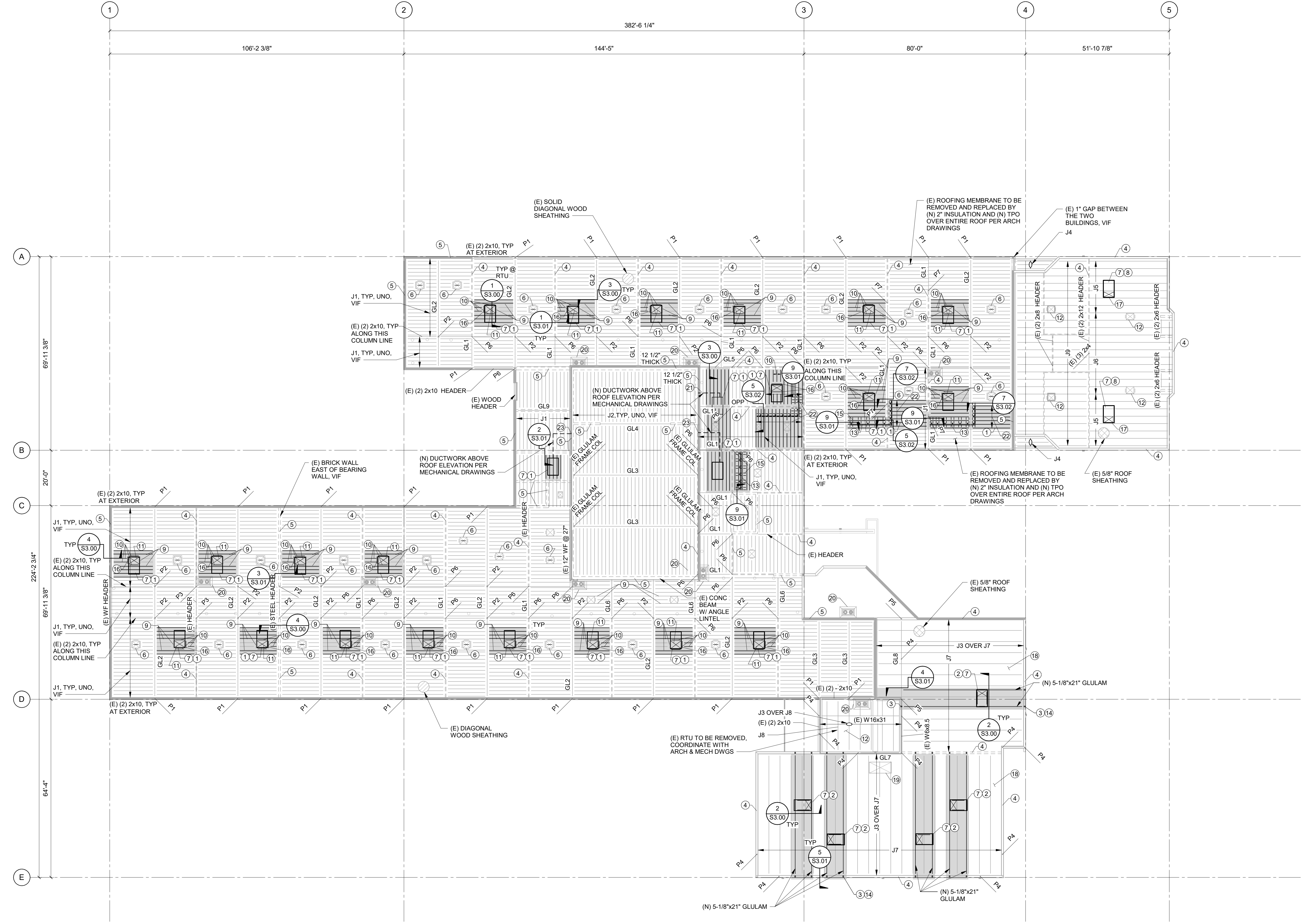
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GENERAL PLAN NOTES:

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 [Symbol] 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" THICK OSB ROOF SHEATHING. PROVIDE 0.148" DIA WITH 1 1/2" MINIMUM PENETRATION @ 8" OC (EDGE NAILING) AND 12" OC (FIELD NAILING), TYP. UNO FOR (N) SHEATHING TO ROOF STRUCTURE ATTACHMENT.

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

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

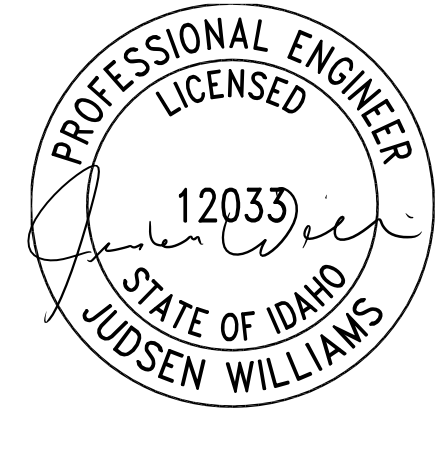
S4 [Symbol] (N) BEAM/JOIST.

S5 [Symbol] (N) WOOD POST/COLUMN

(E) WOOD JOIST SCHEDULE		(E) GLULAM SCHEDULE	
TYPE	SIZE	TYPE	SIZE
J1	2x10 @ 16" OC	GL1	GL 5 1/4"x9 3/4"
J2	2x12 @ 16" OC	GL2	GL 5 1/4"x17 7/8"
J3	2x4 @ 24" OC	GL3	GL 5 1/4"x24 3/8"
J4	2x8 @ 16" OC	GL4	GL 5 1/4"x21 1/8"
J5	20" T.J.L @ 32" OC	GL5	GL 5 1/4"x13"
J6	22" T.J.L @ 32" OC	GL6	GL 11 3/8"x5 1/4"
J7	24" T.J.H @ 48" OC	GL7	GL 5 1/8"x21"
J8	16" T.J.L @ 48" OC	GL8	GL 5 1/8"x16 1/2"
J9	12" T.J.L @ 32" OC	GL9	GL 5 1/4"x14 5/8"

(E) POST SCHEDULE	
TYPE	SIZE
P1	4x6
P2	5 1/4"x5 1/4"
P3	5 1/4"x3 5/8"
P4	3" PIPE
P5	3x4 TUBE
P6	2x4
P7	2x6

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" OC, UNO, VIF.
5	(E) UNREINFORCED BRICK WALL BELOW, 8 1/4" THICK UNO, VIF.
6	(E) SKYLIGHTS NOT BEING USED AS (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) (2) 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, 5/S3.02 AND 7/S3.02
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. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION, NOTIFY ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
18	IN THE SE ADDITION BUILDING, (E) COOLING UNITS TO BE REMOVED AND ROOF OPENINGS BELOW TO BE IN-FILLED AND COVERED, TYP WITH 5/8" SHEATHING, COORDINATE WITH ARCH DRAWINGS.
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" DIA WITH 1 1/2" MINIMUM PENETRATION @ 3" OC (EDGE NAILING AND 8" OC (FIELD NAILING) ALONG THE ENTIRE LENGTH OF THE SISTERED JOISTS AT THIS BAY.
23	(N) MECH OPENING IN (E) STUD WALL PER DETAIL 4/S3.02.



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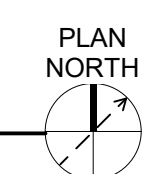
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Sheet: ROOF FRAMING PLAN

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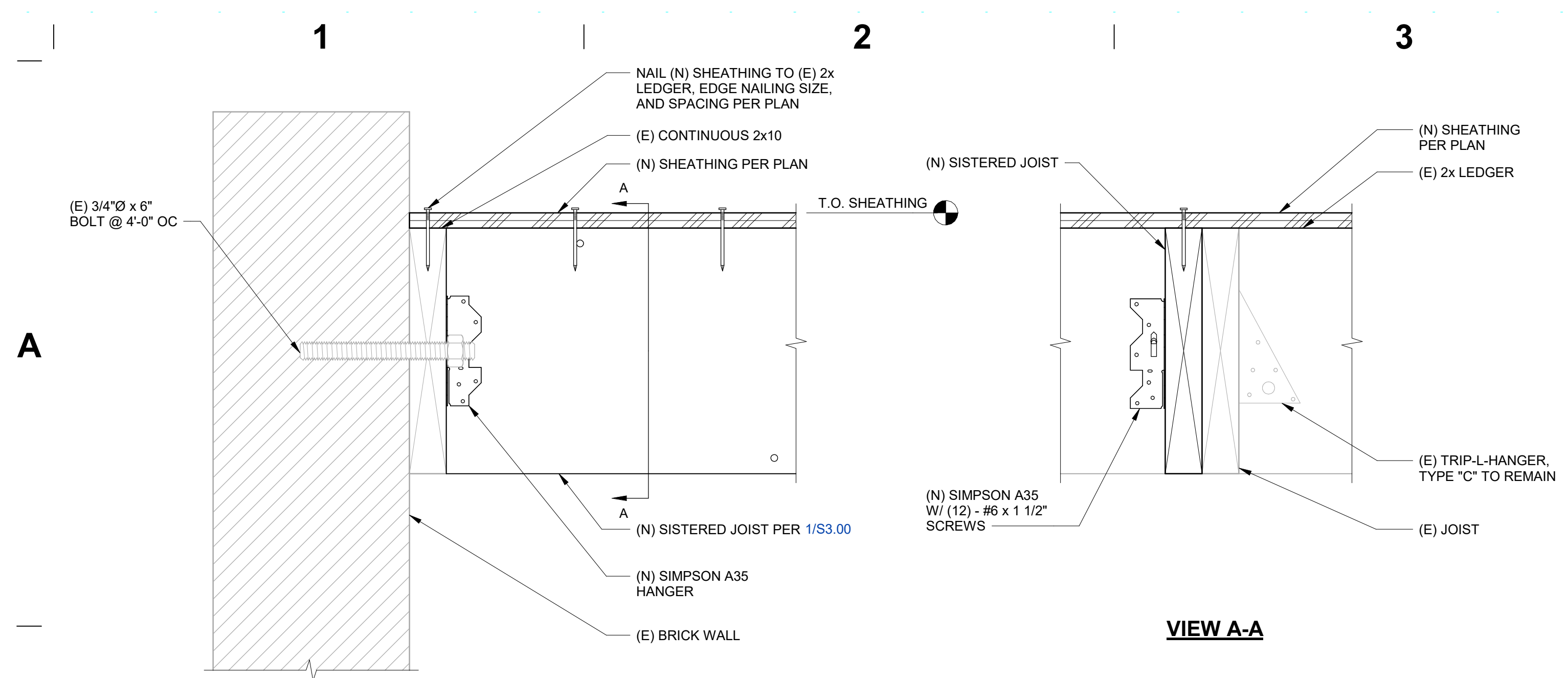
Revisions: Δ

1 ROOF FRAMING PLAN
S2.01 1/16" = 1'-0"

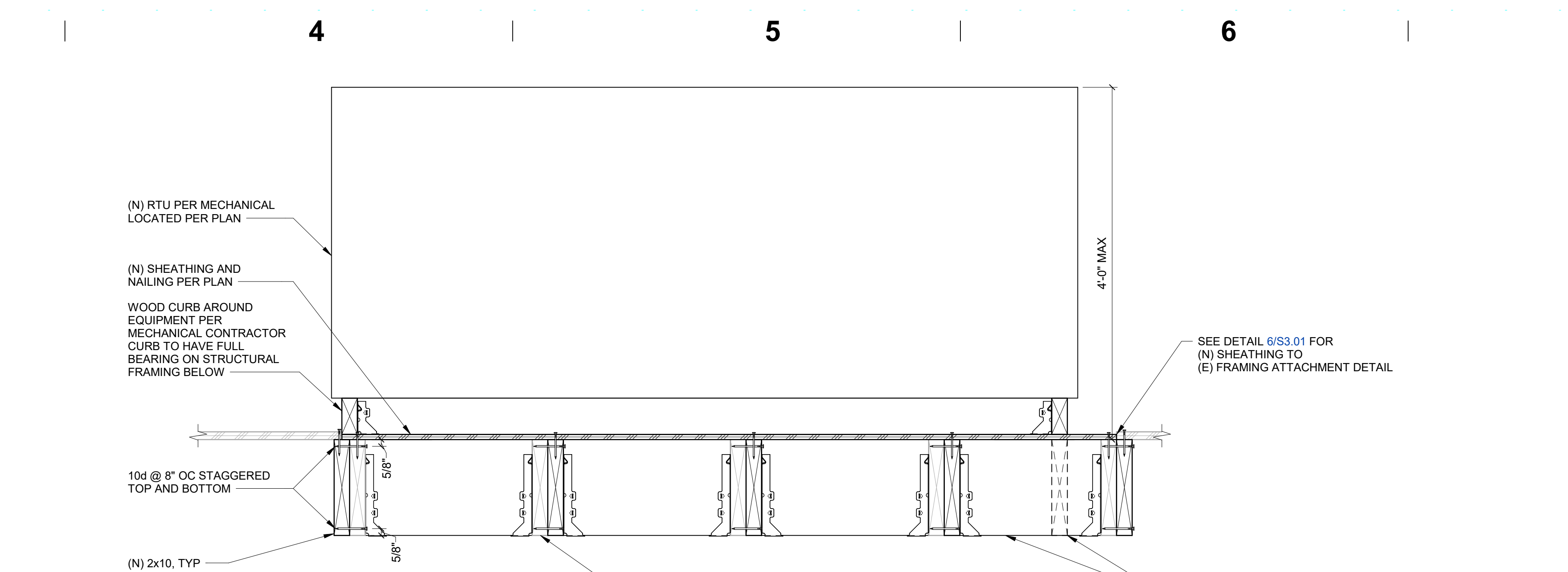


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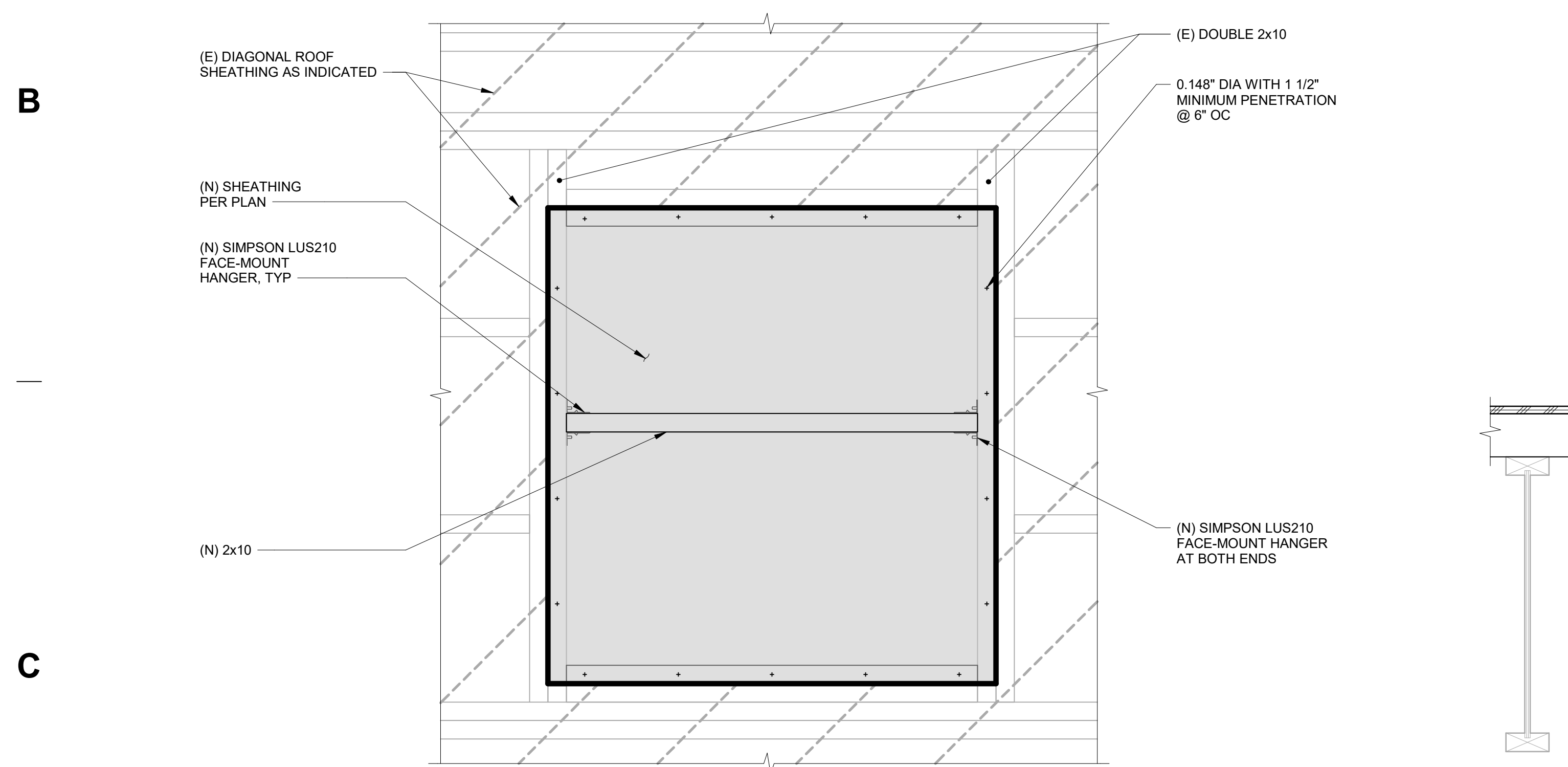
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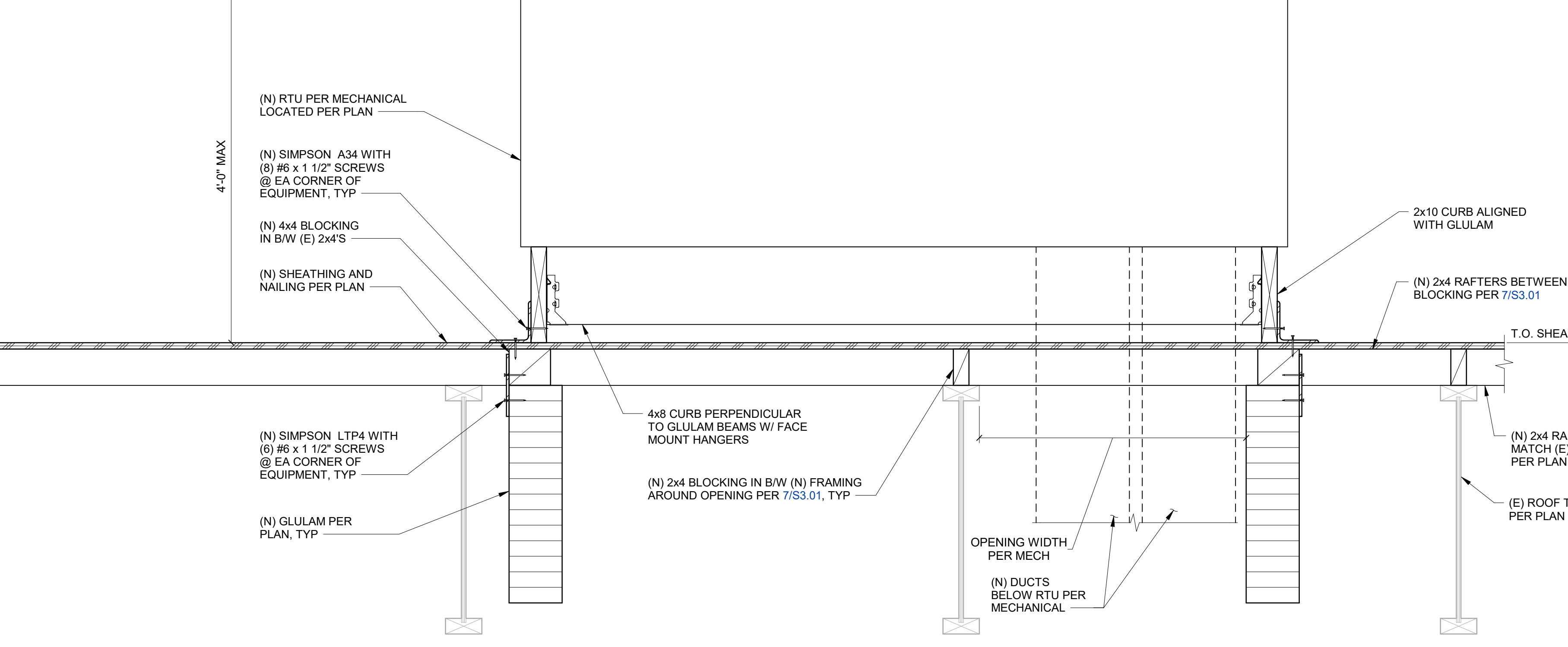
4 END SUPPORT CONNECTION AT BRICK WALL
S3.00 3\"/>



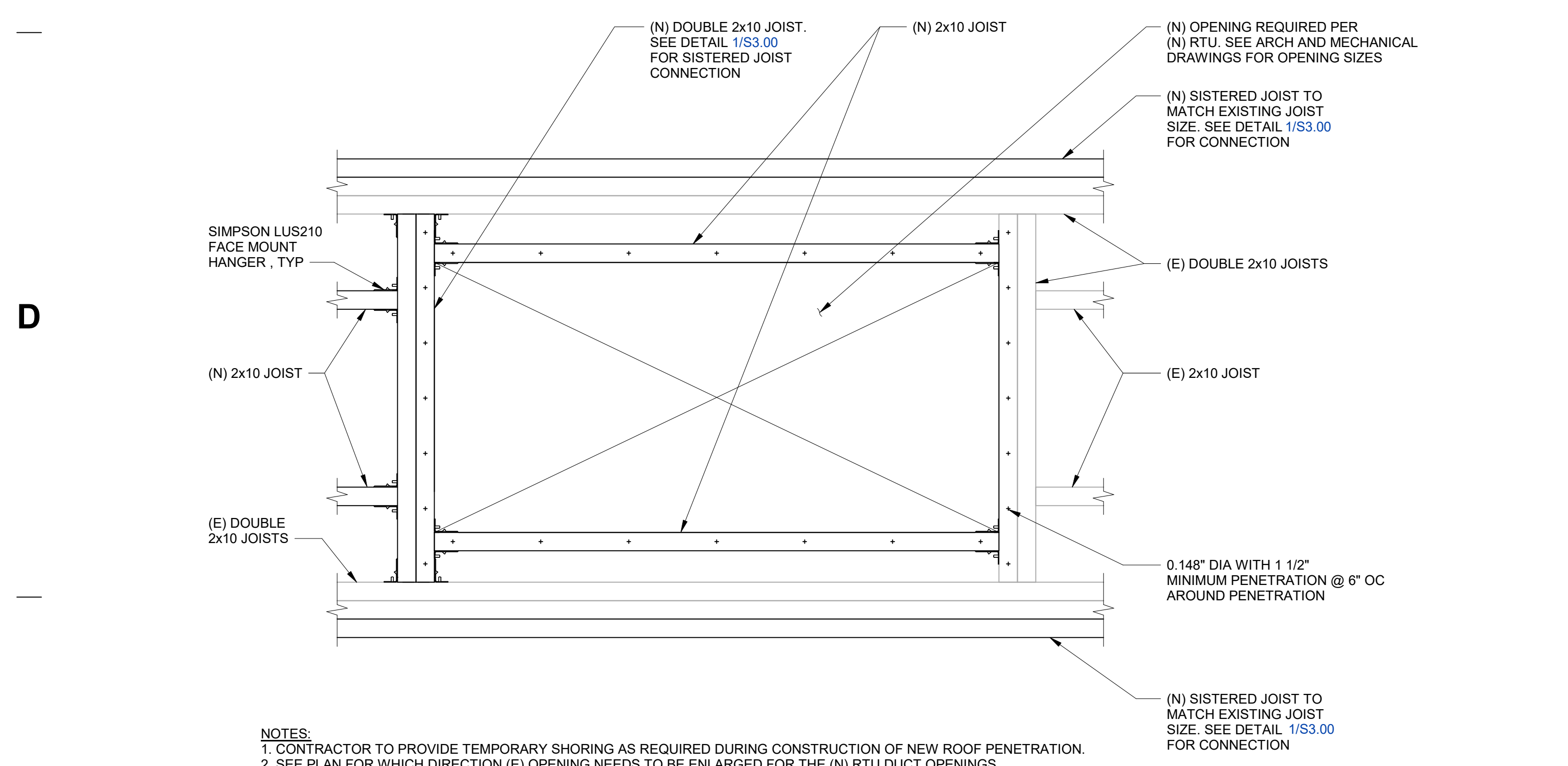
1 SISTERS JOISTS SUPPORTING RTU
S3.00 1 1/2\"/>



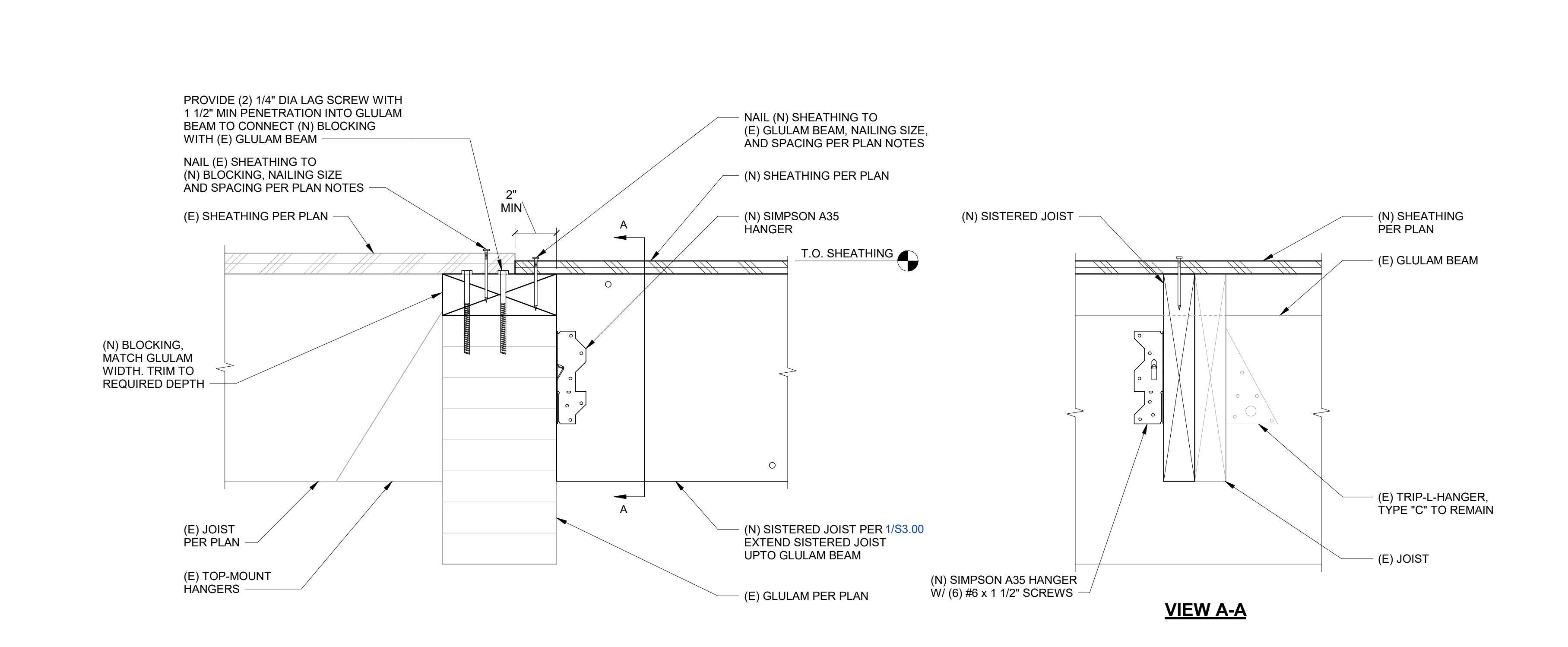
5 (E) ROOF OPENING INFILL DETAIL
S3.00 1 1/2\"/>



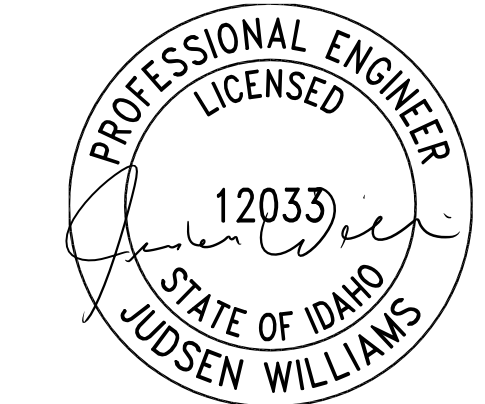
2 (N) GLULAM BEAMS SUPPORTING RTU
S3.00 1 1/2\"/>



6 (N) FRAMING FOR PENETRATION ON ROOF
S3.00 1 1/2\"/>



3 END SUPPORT CONNECTION AT GLULAM
S3.00 3\"/>



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TFSD DISTRICT WIDE HVAC REPLACEMENT

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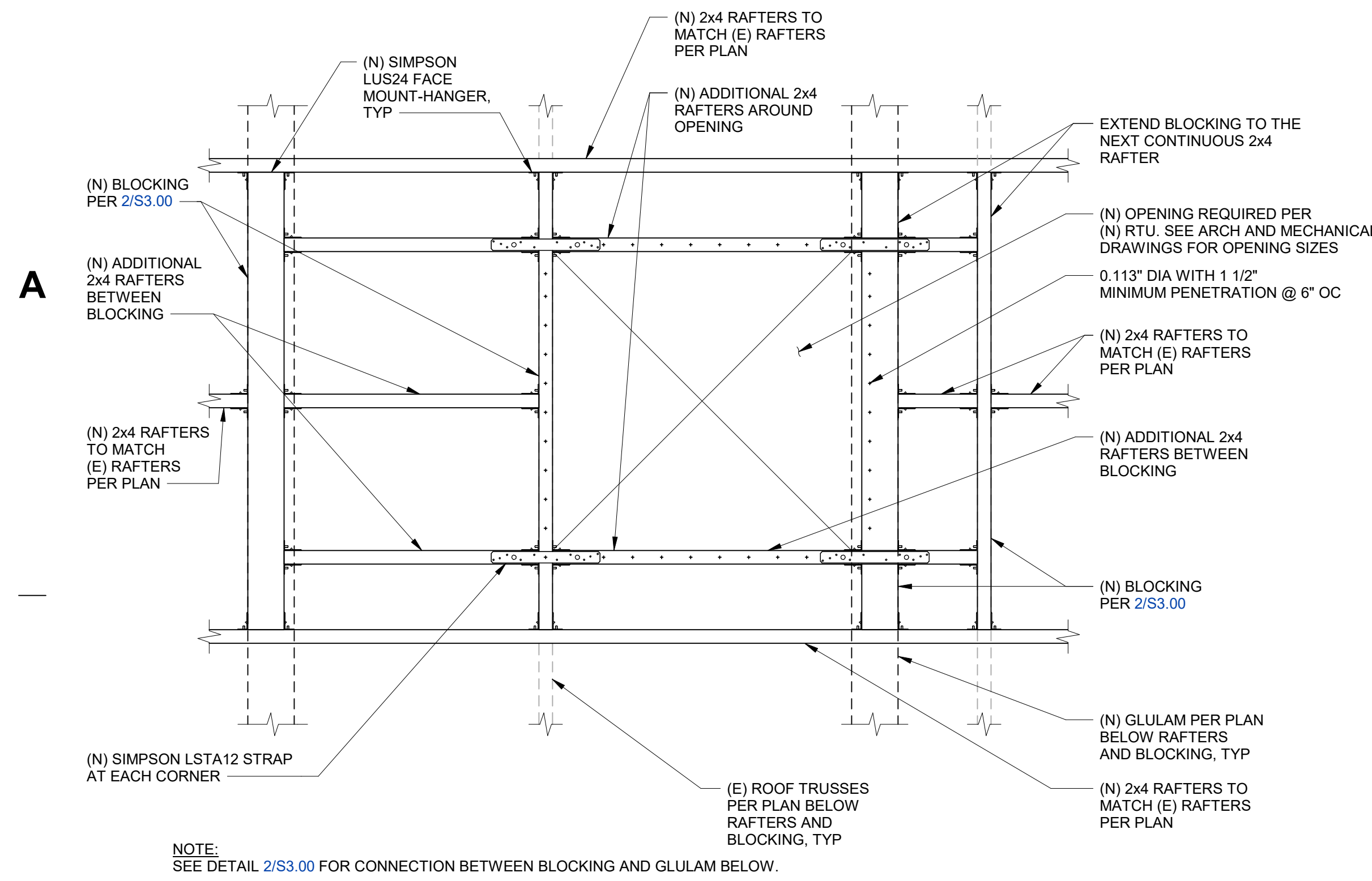
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RETROFIT DETAILS

Revisions: Δ

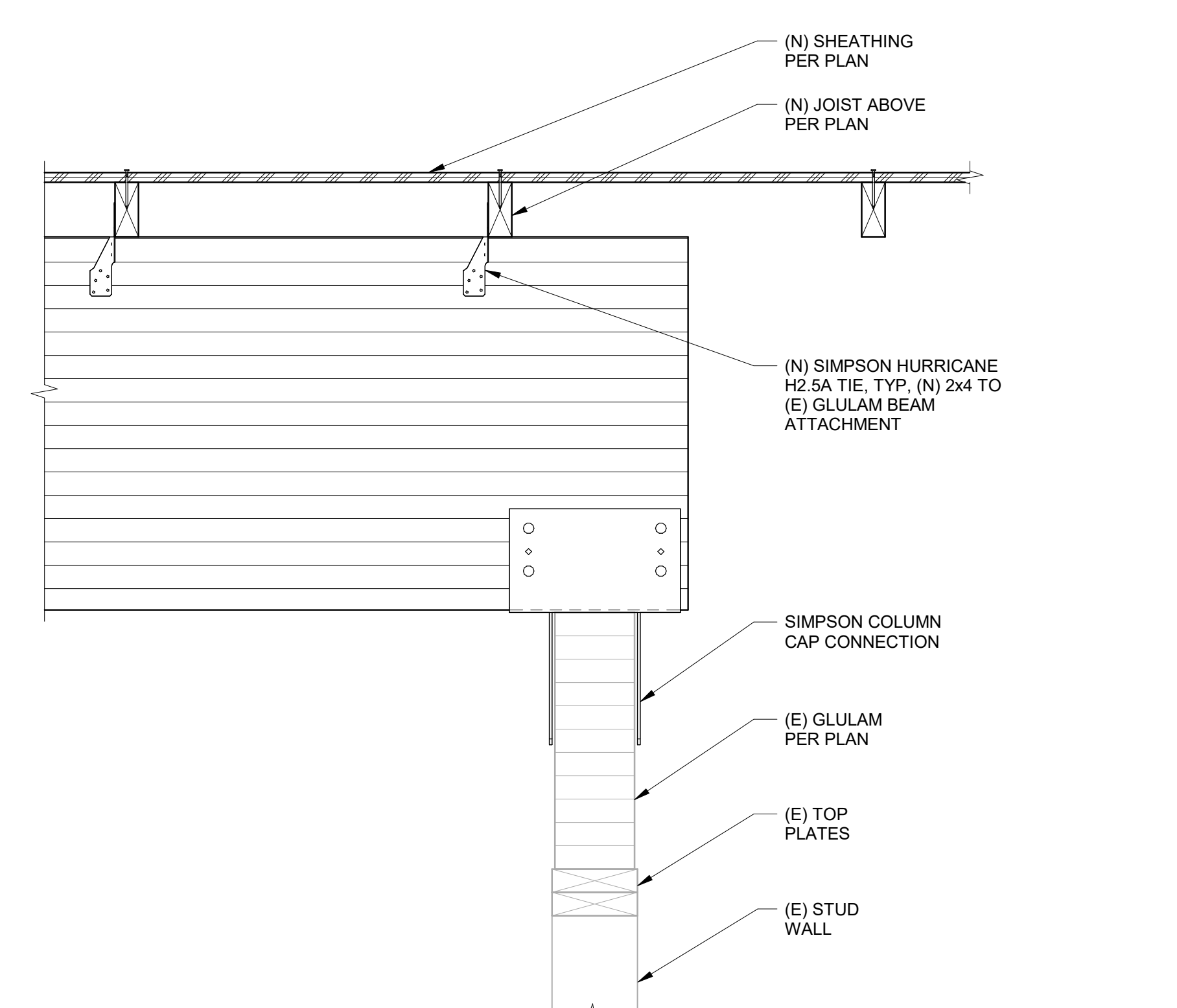
BID SET	
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Project No: 1021240110
Drawn By: DPC/K
Checked By: JW
Date: 01/15/2025

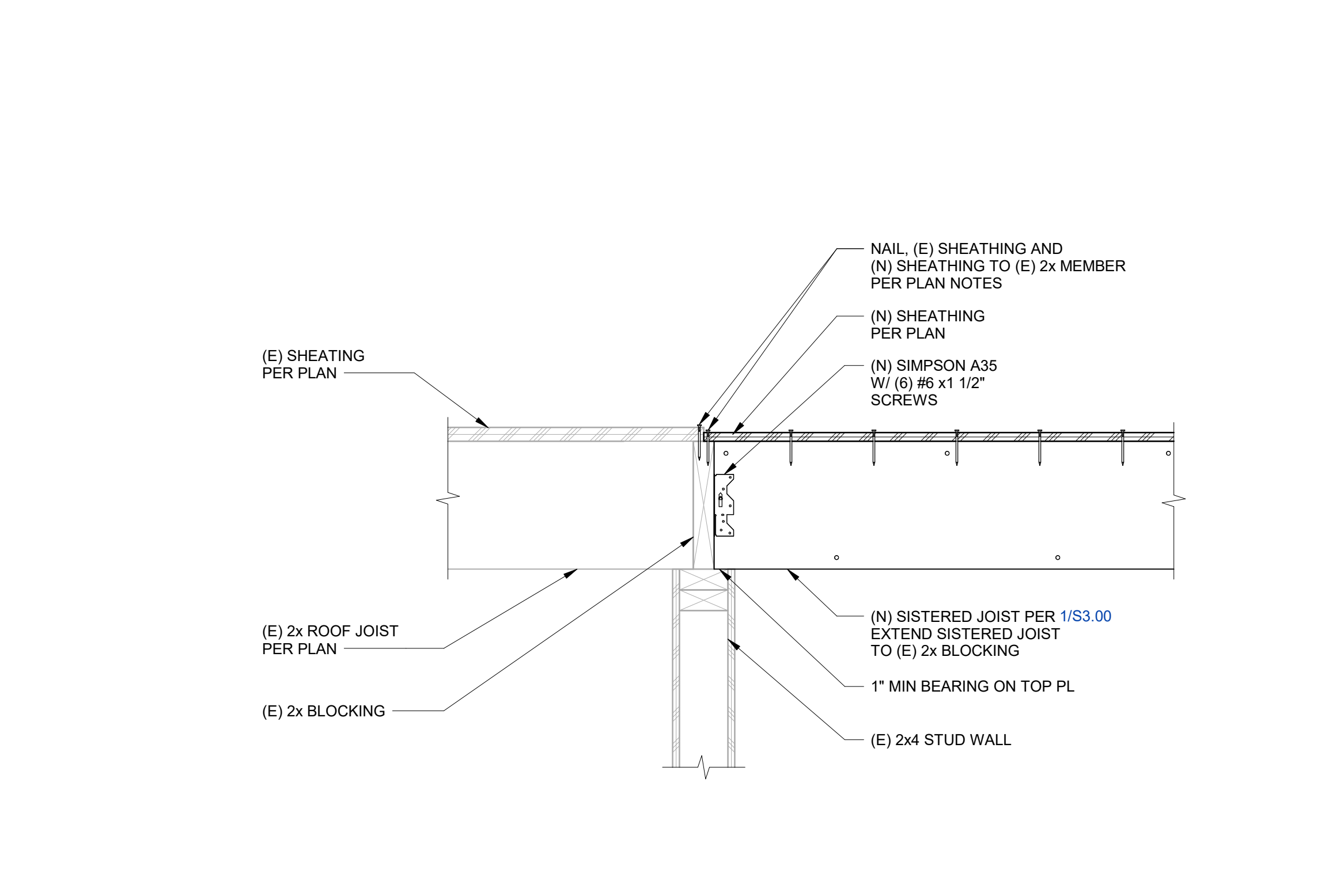
Sheet No: S3.00



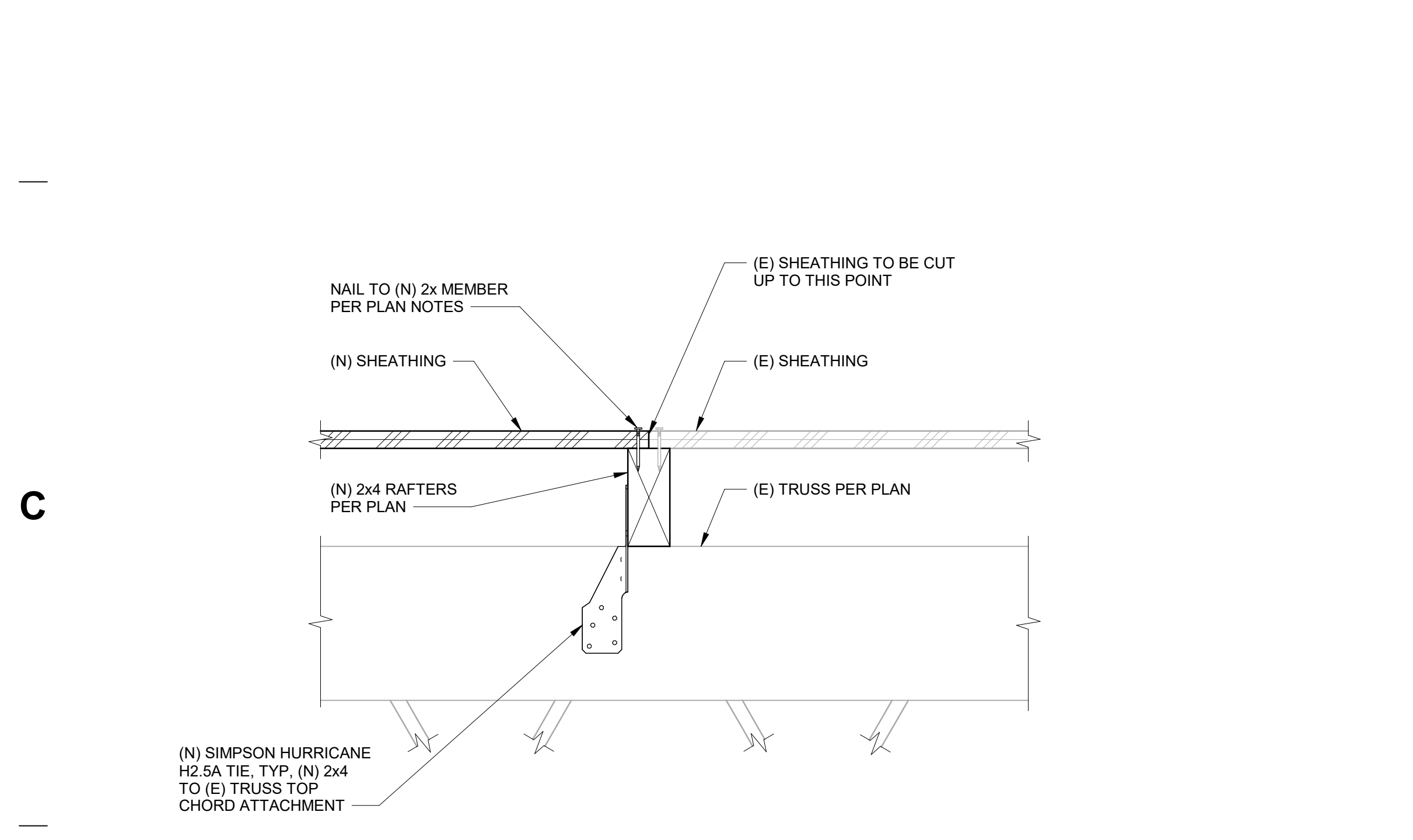
7 (N) FRAMING FOR PENETRATION ON ROOF AT (N) GLULAM LOCATIONS
 S3.01 1" = 1'-0"



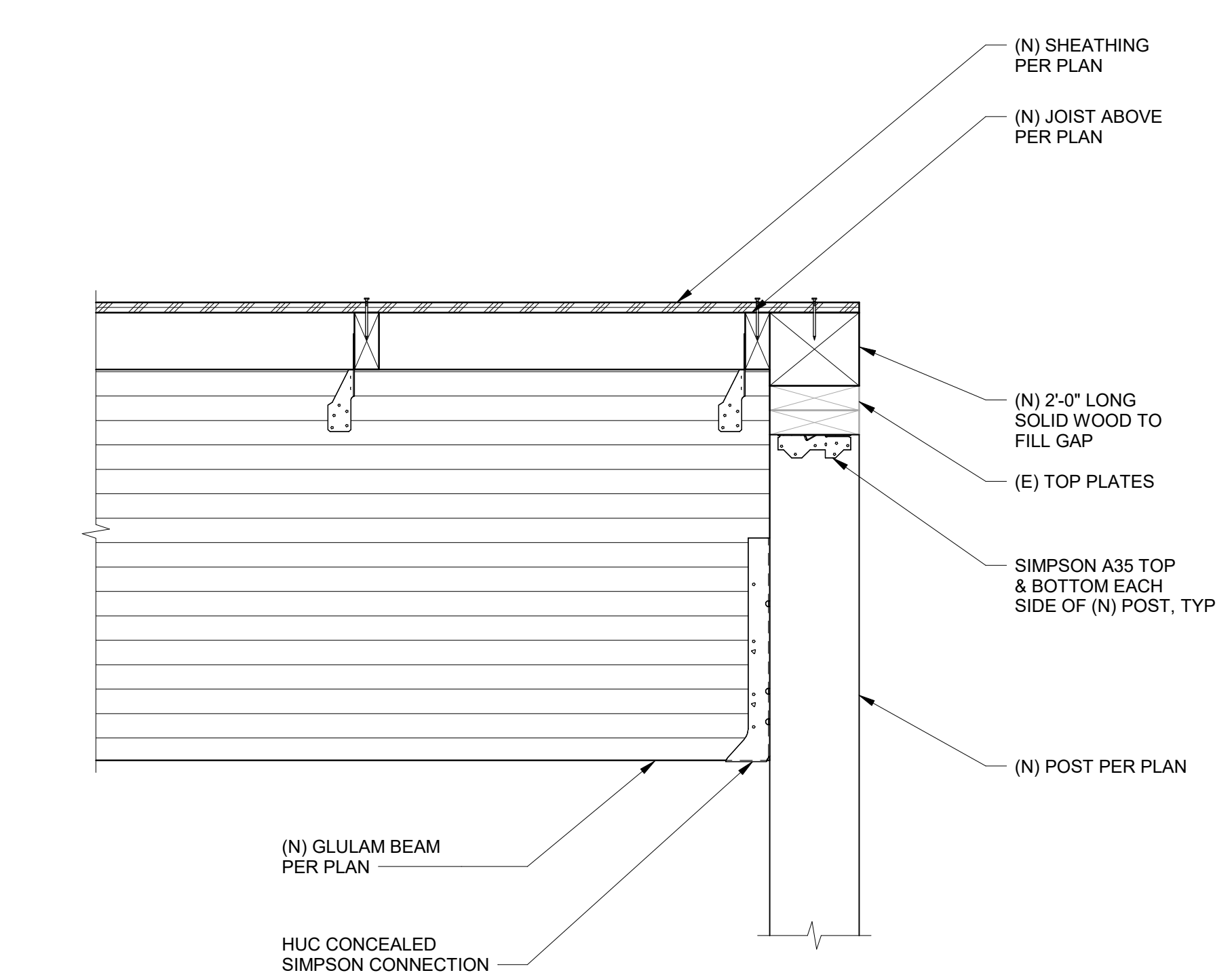
4 GLULAM OVER GLULAM CONNECTION
 S3.01 1 1/2" = 1'-0"



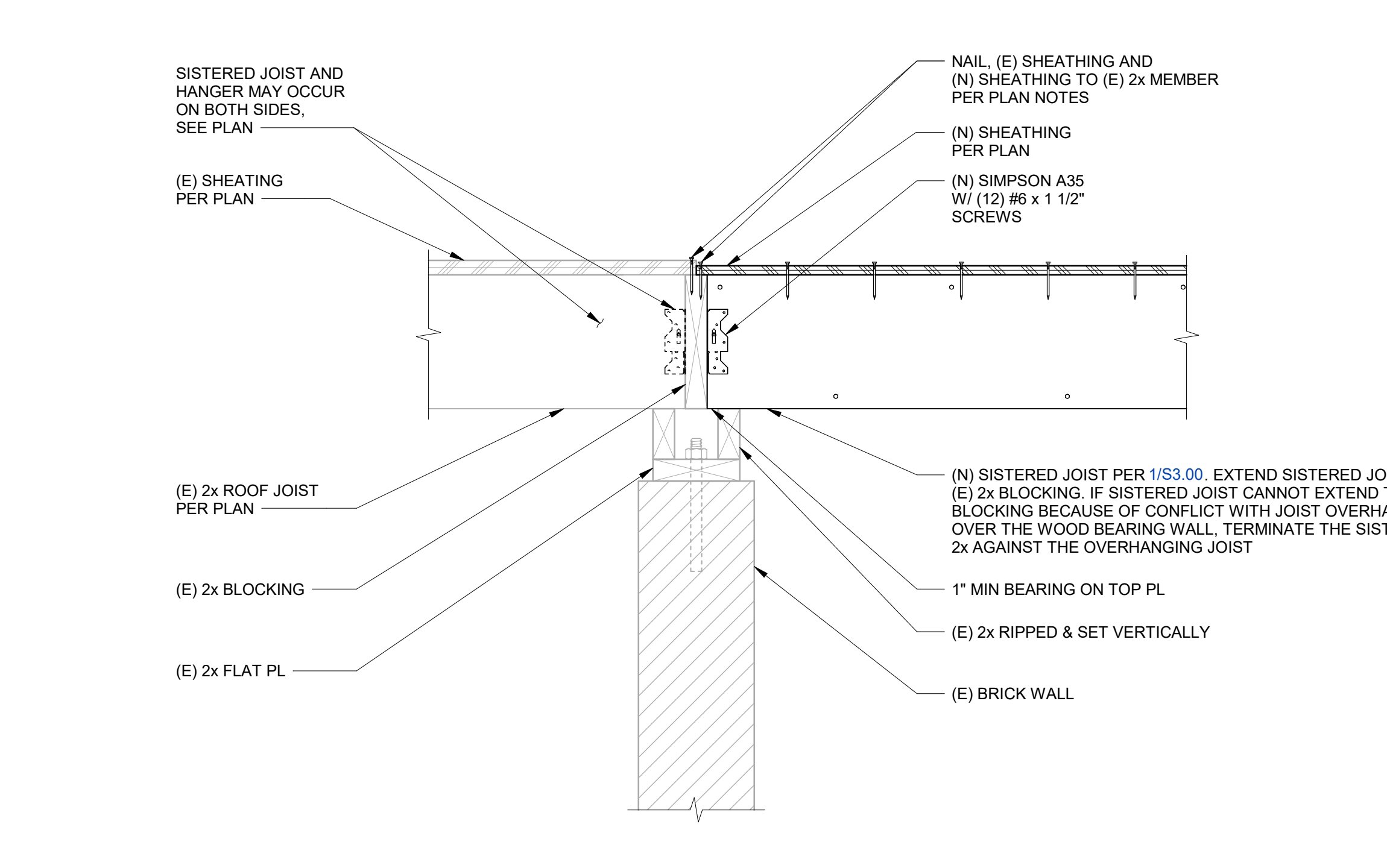
1 SISTERED JOIST TO (E) WOOD STUD WALL
 S3.01 1 1/2" = 1'-0"



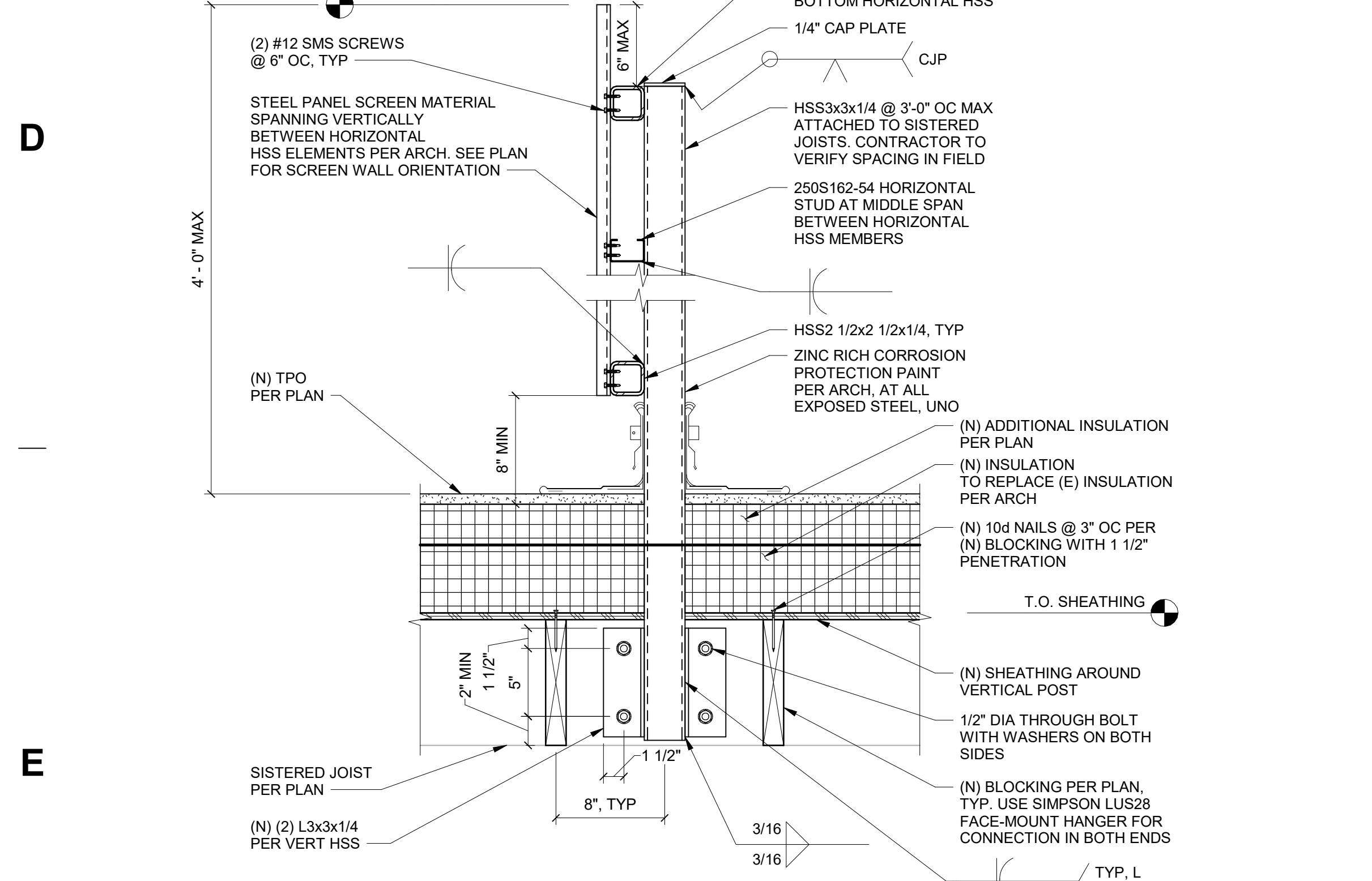
8 (N) SHEATHING TO (E) FRAMING ATTACHMENT DETAIL AT ADDITION BUILDINGS
 S3.01 3" = 1'-0"



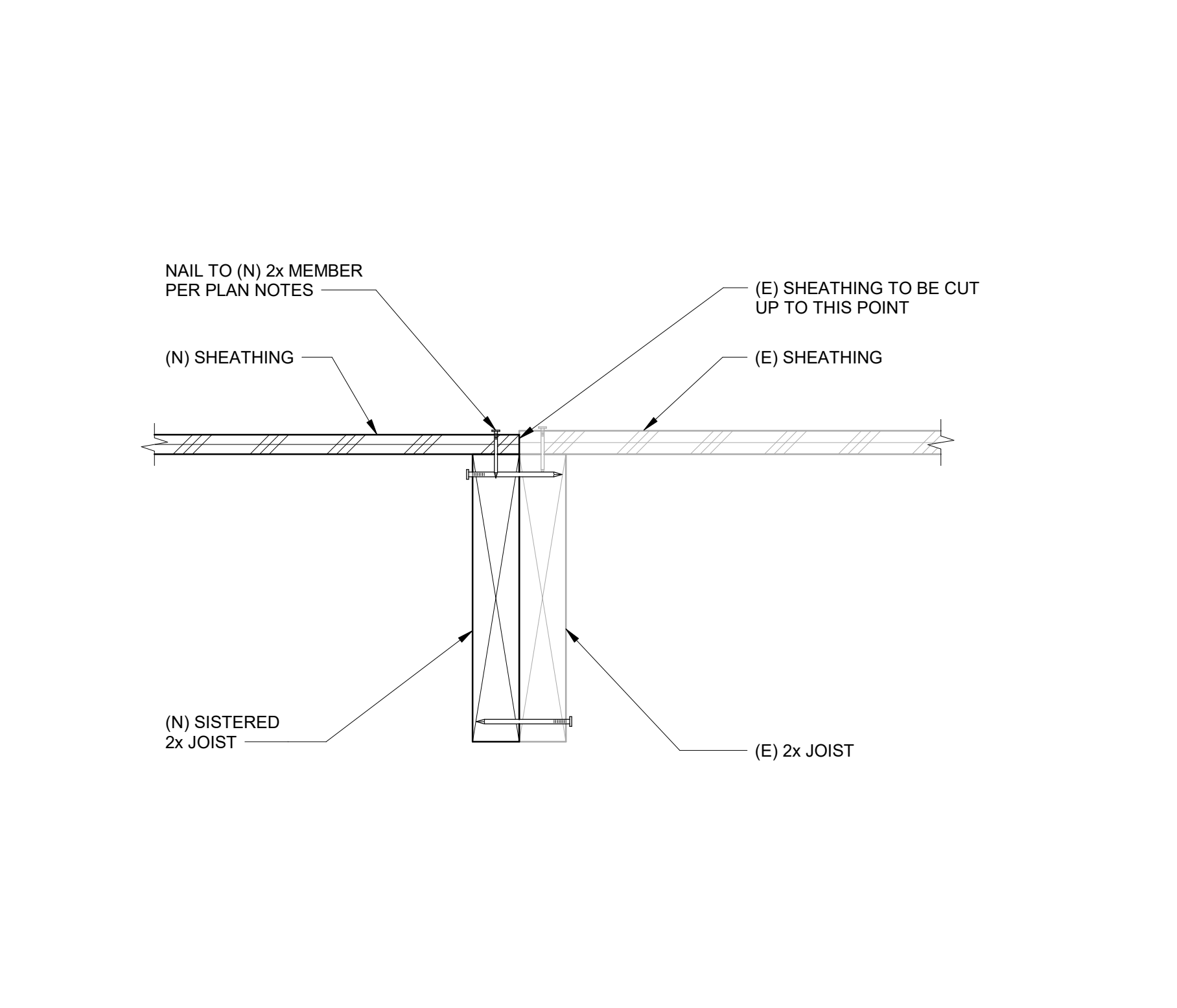
5 GLULAM TO POST CONNECTION
 S3.01 1 1/2" = 1'-0"



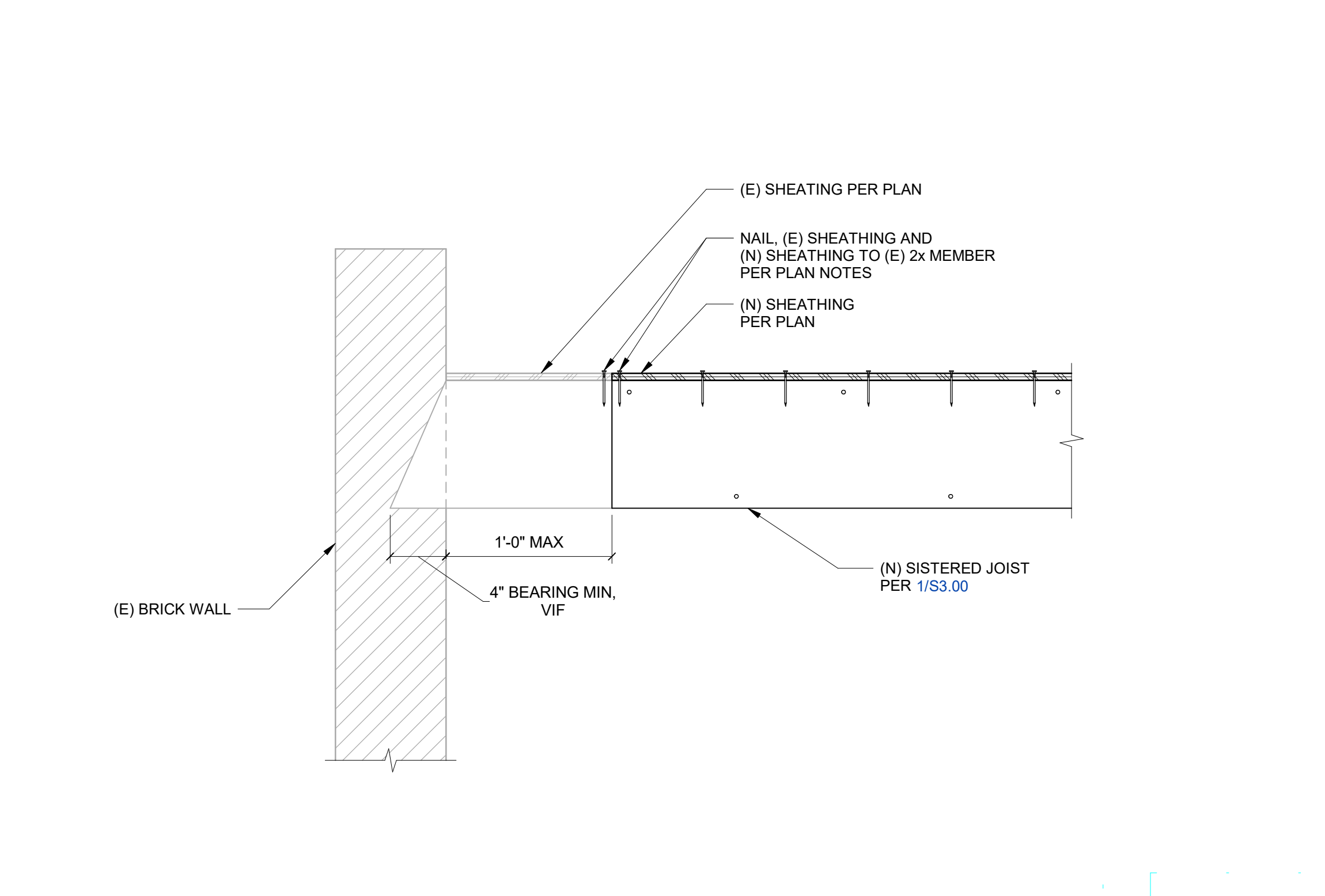
2 SISTERED JOIST TO TOP OF (E) BRICK WALL
 S3.01 1 1/2" = 1'-0"



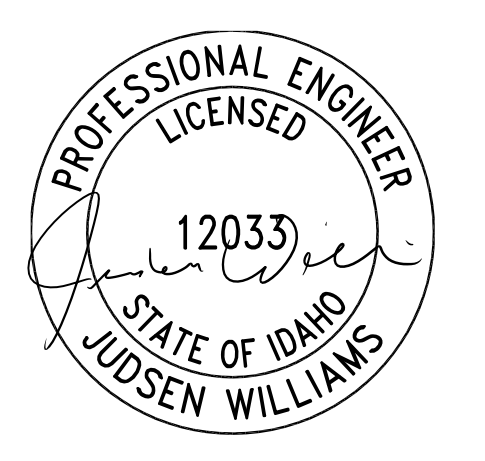
9 SCREEN WALL ATTACHMENT
 S3.01 1 1/2" = 1'-0"



6 (N) SHEATHING TO (E) FRAMING ATTACHMENT DETAIL
 S3.01 3" = 1'-0"



3 SISTERED JOIST TO FACE OF (E) BRICK WALL
 S3.01 1 1/2" = 1'-0"



Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

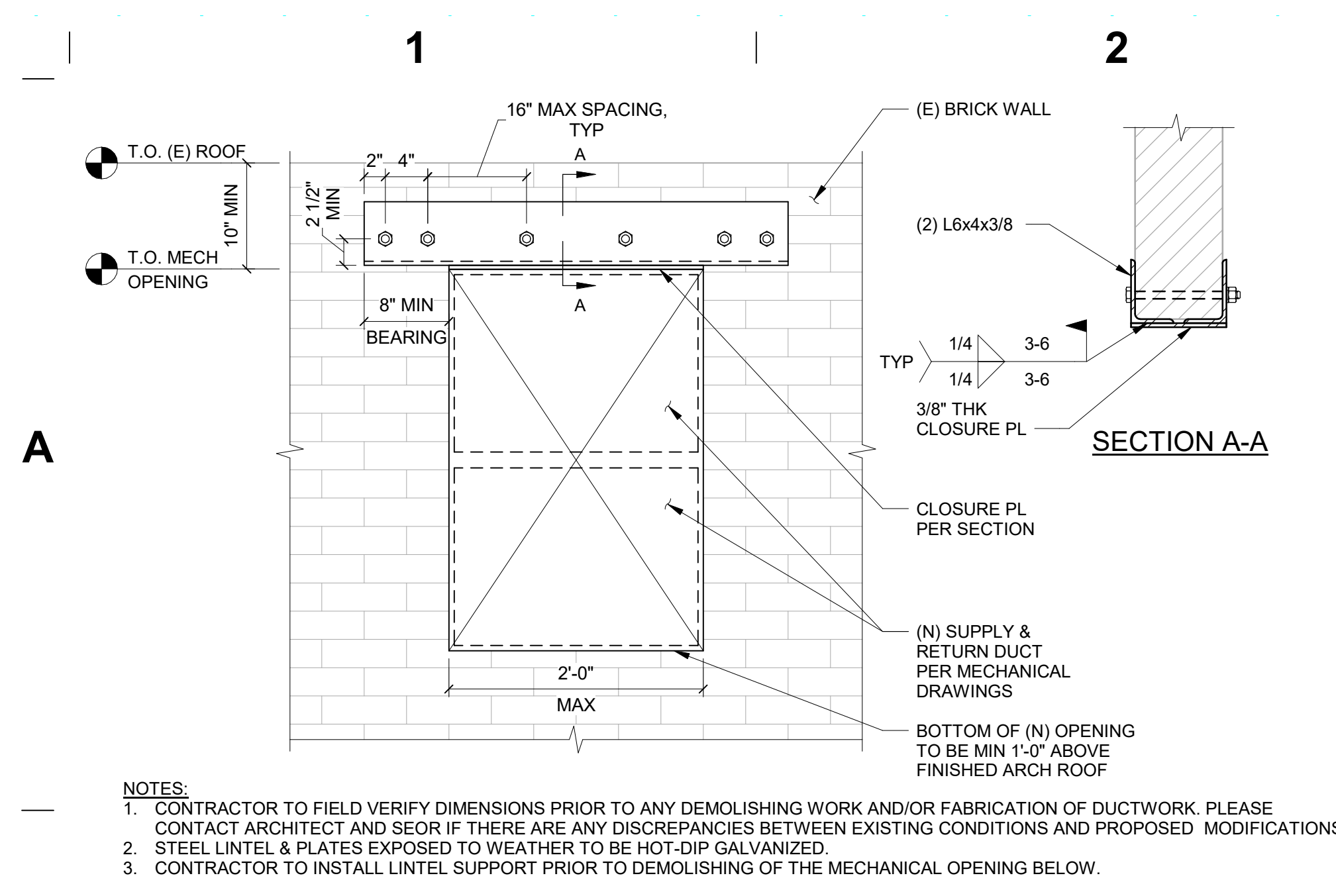
Sheet:
 RETROFIT DETAILS

BID SET

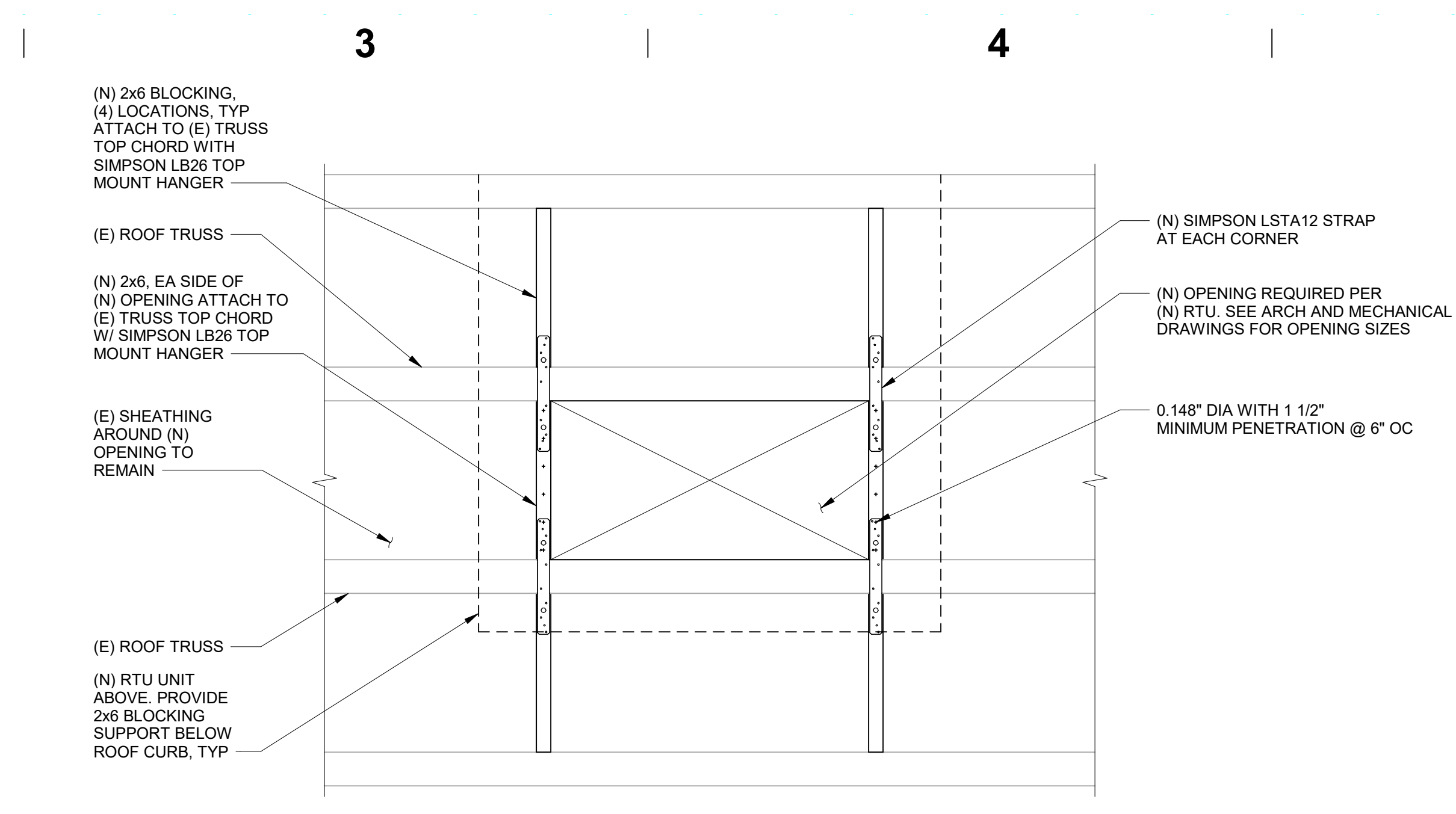
Revisions: Δ

Project No: 1021240110
 Drawn By: DPC/K
 Checked By: JW
 Date: 01/15/2025

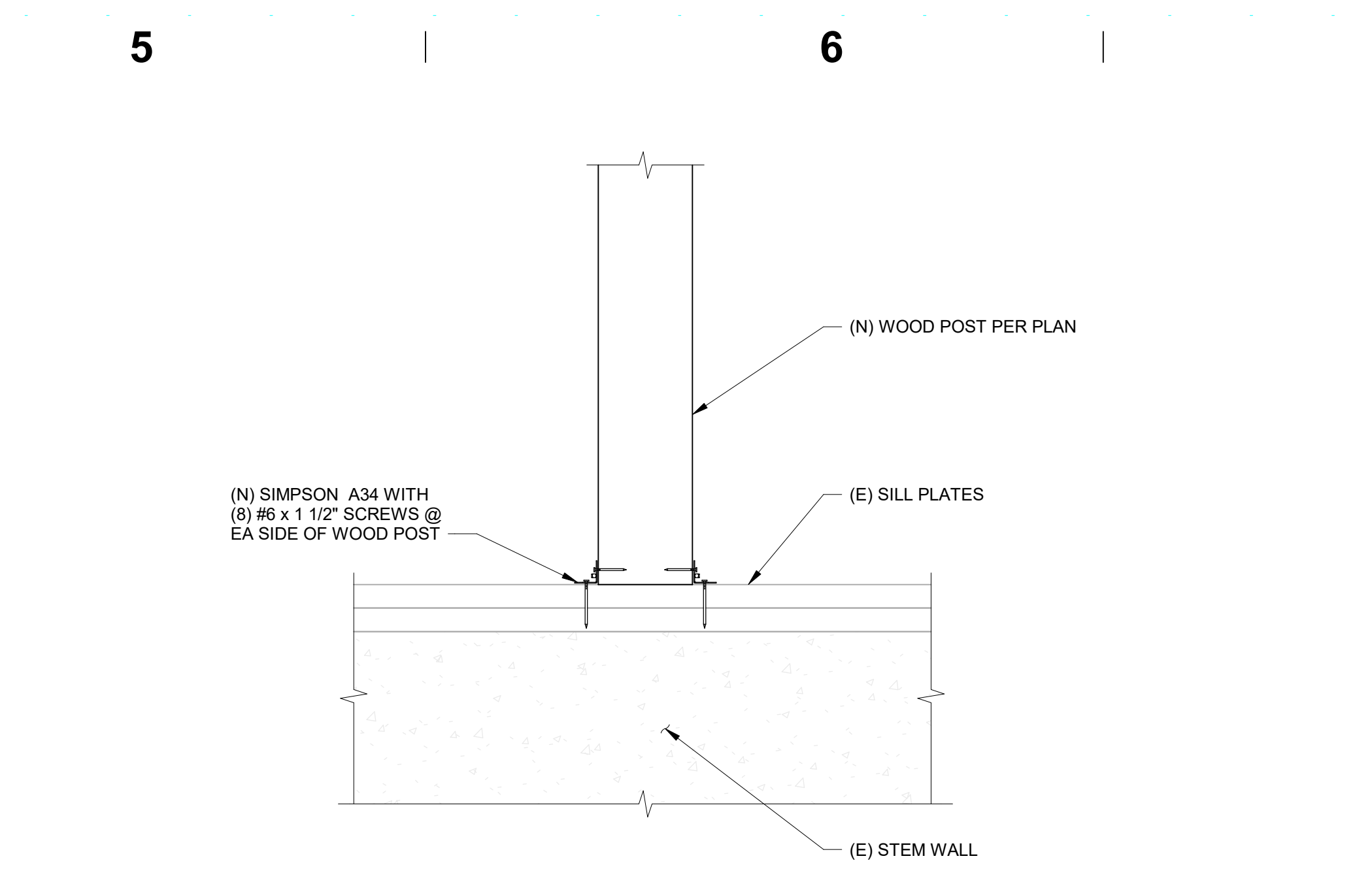
Sheet No:
S3.01



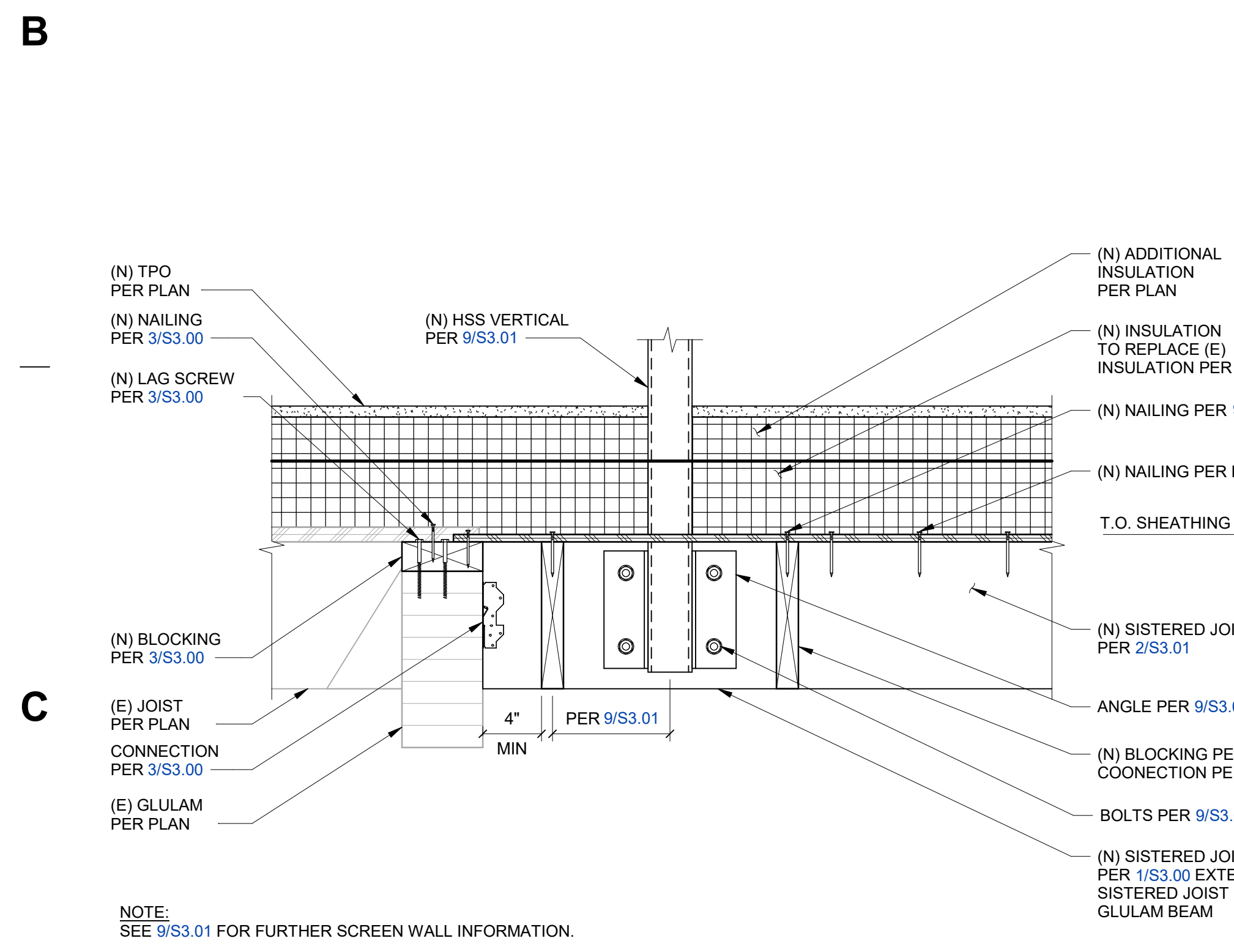
6 STACKED MECHANICAL OPENING IN (E) BRICK WALL
 1" = 1'-0"



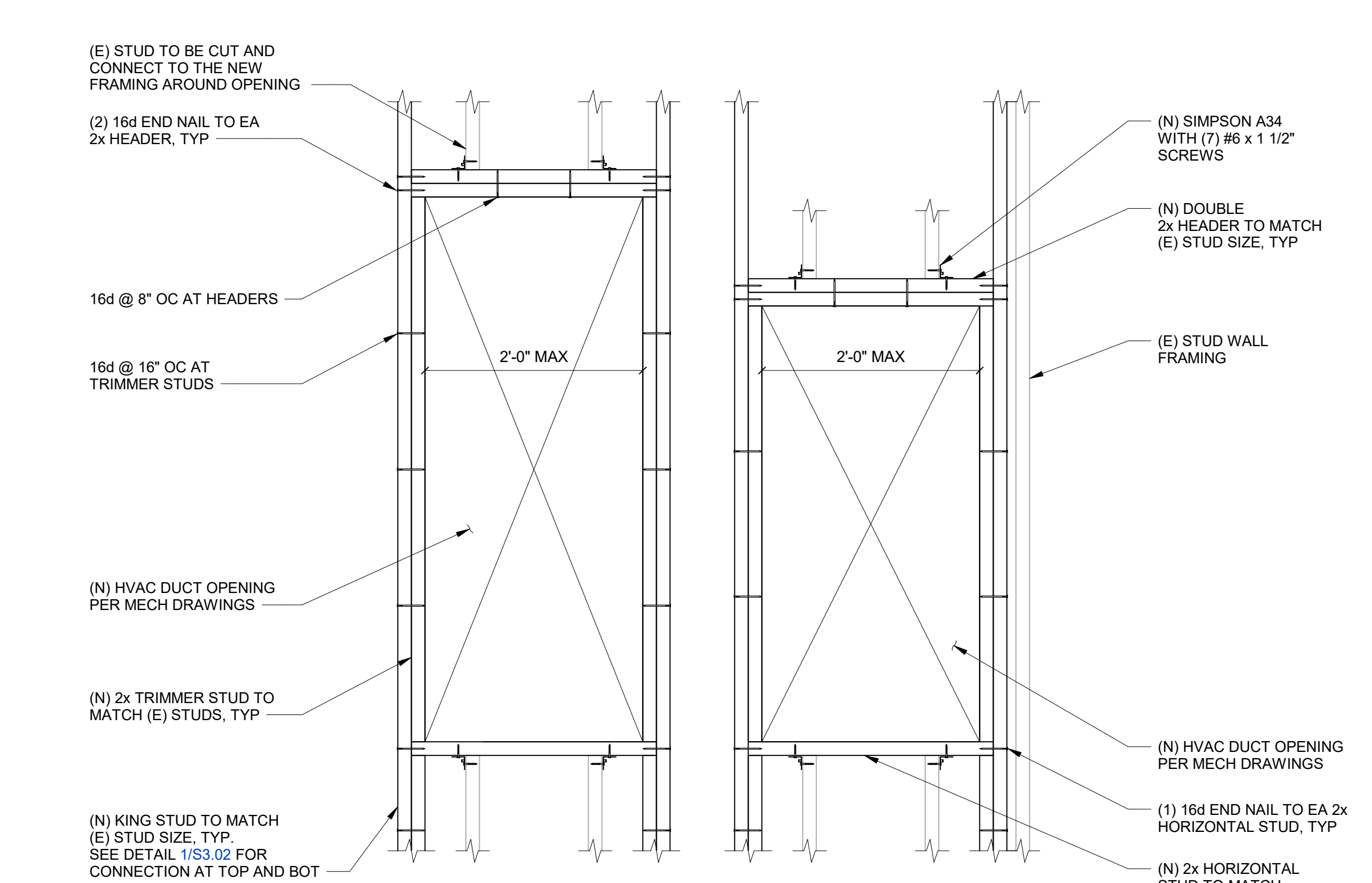
3 (N) MECHANICAL ROOF OPENING IN (E) ROOF WITH TRUSSES
 1" = 1'-0"



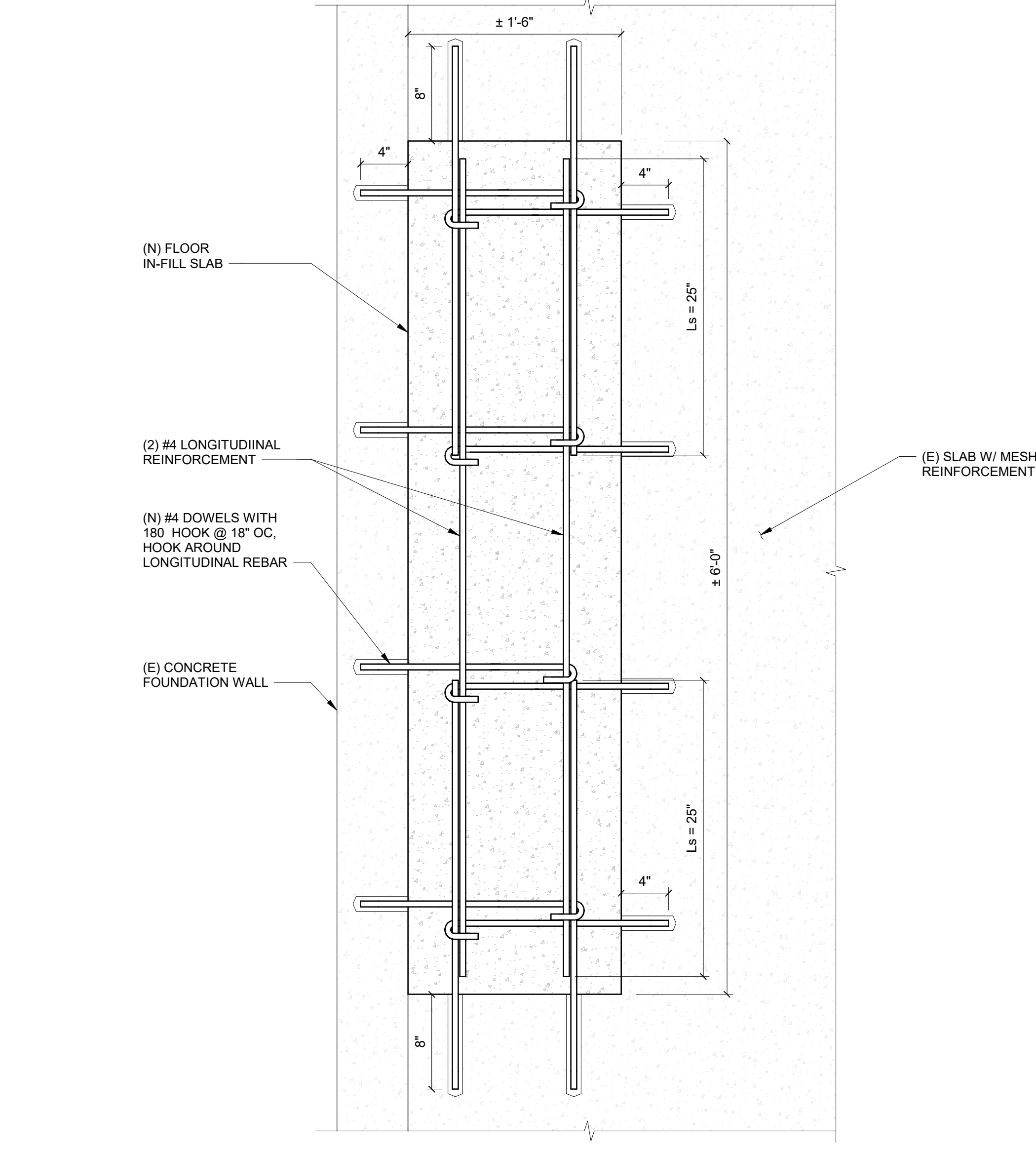
1 WOOD POST CONNECTION
 1 1/2" = 1'-0"



7 SCREEN WALL POST CONNECTION NEAR PARALLEL GLULAM
 1 1/2" = 1'-0"



4 WALL OPENING - HVAC AT CAFETERIA - TYPICAL
 1" = 1'-0"



2 FLOOR INFILL AT (E) FCU LOCATION
 1 1/2" = 1'-0"



5 SCREEN WALL POST CONNECTION NEAR STUD WALL PARALLEL
 1 1/2" = 1'-0"

412 E. ParkCenter Blvd, Suite 200, Boise, ID 83706, 208.336.6985, www.kpff.com

205 N. 10th Street, Suite 300, Boise, Idaho 83702, 208.445.7923, 482 Constitution Way, Suite 111, Idaho Falls, ID 83402, 208.343.7923, hummelarch.com

Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
 RETROFIT DETAILS

Revisions:

Project No: 1021240110
Drawn By: DPC/K
Checked By: JW
Date: 01/15/2025

Sheet No:
S3.02

1/15/2025 3:55:55 PM

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

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

HVAC LEGEND (Not all symbols listed below are used on these drawings)			
ABBR.	SYMBOL	DESCRIPTION	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 / ROUND DUCT DOWN
CHWS		CHILLED WATER SUPPLY PIPING	FLAT OVAL DUCTWORK
CHWR		CHILLED WATER RETURN PIPING	FLEXIBLE DUCT CONNECTION
D		COOLING COIL DRAIN PAN PIPING	BACKDRAFT DAMPER
CWS		CONDENSER WATER SUPPLY PIPING	TEMP. CONTROL DAMPER-OPOSED BLADE
CWR		CONDENSER WATER RETURN PIPING	TEMP. CONTROL DAMPER-PARALLEL BLADE
GHWS		GLYCOL HEATING WATER SUPPLY PIPING	MANUAL VOLUME DAMPER
GHWR		GLYCOL HEATING WATER RETURN PIPING	DUCT MOTORIZED DAMPER
PCWS		PROCESS CHILLED WATER SUPPLY PIPING	CONICAL FITTING WITH MVD
PCWR		PROCESS CHILLED WATER RETURN PIPING	DUCT FIRE DAMPER
LPS		LOW PRESSURE STEAM SUPPLY PIPING (Ø - 15#)	FD
LPC		LOW PRESSURE CONDENSATE RETURN PIPING	FSD
MPS		MEDIUM PRESSURE STEAM SUPPLY PIPING (15# - 60#)	DUCT SMOKE DAMPER
MPC		MEDIUM PRESSURE CONDENSATE RETURN PIPING	DUCT SMOKE DETECTOR
HPS		HIGH PRESSURE STEAM SUPPLY PIPING (Ø 1# - 125#)	DAD
HP		HIGH PRESSURE CONDENSATE RETURN PIPING	TURNING VANES IN DUCT ELBOW
PC		PUMPED CONDENSATE PIPING	
BB		BOILER BLOWDOWN PIPING	EP
BF		BOILER FEED WATER PIPING	PE
RL		REFRIGERANT LIQUID PIPING	
RS		REFRIGERANT SUCTION PIPING	
RHG		REFRIGERANT HOT GAS PIPING	
TT		THERMOSTATIC STEAM TRAP	
FAT		FLOAT AND THERMOSTATIC STEAM TRAP	
IBT		INVERTED BUCKET STEAM TRAP	
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE	
VM		VENTURI METER	
BV		CALIBRATED BALANCING VALVE	
AFV		AUTO FLOW VALVE	
RSV		REFRIGERANT SERVICE VALVE	
DPS		DIFFERENTIAL PRESSURE SWITCH	
FS		FLOW SWITCH	
EJ		EXPANSION JOINT	
BJ		BALL JOINT EXPANSION COMPENSATOR	
SA		SUPPLY AIR	
RA		RETURN AIR	
EA		EXHAUST AIR	
OA		OUTSIDE AIR	
			SD
			RG
			RD
			EG

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 AIR 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, CONNECTORS/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 BIDDING.
- 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.

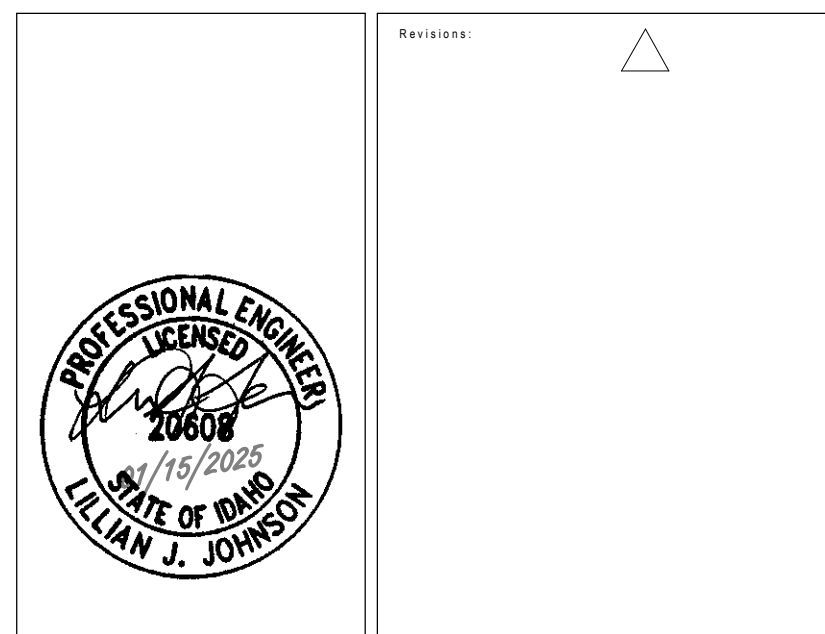
IECC INFORMATION ON CONSTRUCTION DOCUMENTS FOR MECHANICAL DRAWINGS	
THE FOLLOWING INFORMATION IS PROVIDED TO ACCOMMODATE THE REQUIREMENTS FOR THE CODE SECTION REFERENCED BELOW ON LINE ITEMS 4, 5, 6, 7, 8, & 9 FOR MECHANICAL SYSTEMS ON THIS PROJECT.	
IECC 2015/2018-C103.2 INFORMATION ON CONSTRUCTION DOCUMENTS.	
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	
3700 FEET ELEVATION FOR THE PROJECT SITE LOCATION.	
0.87 ALTITUDE CORRECTION FACTOR FOR HEAT TRANSFER CALCULATION REQUIRED.	
DESIGN TEMPERATURES	
95 °F DB OUTDOOR SUMMER	75 °F DB INDOOR SUMMER
62.6 °F WB OUTDOOR SUMMER	30 %RH INDOOR SUMMER
7 °F WB OUTDOOR WINTER	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"/> ANS/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
& ASSOCIATES, CO.
420 South Orchard Street, Boise, ID 83705
(208) 343-3663 • www.catorruma.com

HUMMEL
ARCHITECTS
205 N. 10th Street Suite 200 Boise, Idaho 83702 208.343.7923
482 Constitution Way, Suite 111 Idaho Falls, ID 83402 208.343.7923 hummelarch.com

Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT
Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

MECHANICAL LEGENDS & NOTES



100% CD

Sheet No: 23028
Scale: AK
Date: MG
Date: 1/15/2025
Sheet:

M0.01

COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information

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

Construction Site: MORNINGSIDE ELEMENTARY SCHOOL, TWIN FALLS, ID 83301
Owner/Agent: TFSO, TWIN FALLS, ID
Designer/Contractor: LILLY JOHNSON P.E., CATOR RUMA, BOISE, ID 83702

Mechanical Systems List

27 RTU 1 THRU 27 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 110 MBtu/h...
3 RTU 28 THRU 30 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 150 MBtu/h...
FAN System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method): Passes

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. Signature _____ Date _____

Table with 12 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. Row 1: RTU-1, 8.5, 4-454B, AZL, 4.6, 0.0046, FACILITY ROOM WORKROOM CLINIC BATHROOM, 1035, 9, 9315, 9315, 1, 42.849, YES.

Table with 12 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. Row 1: RTU-2, RTU-15, 8, 4-454B, AZL, 4.6, 0.0046, CLASSROOM, 825, 9.3, 7672.5, 7672.5, 1, 35.2935, YES.

Table with 12 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. Row 1: RTU-16, RTU-28, 10.3, 4-454B, AZL, 4.6, 0.0046, CLASSROOM, 844, 9.3, 7849.2, 7849.2, 1, 36.10632, YES.

Table with 12 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. Row 1: RTU-29, 10.3, 4-454B, AZL, 4.6, 0.0046, GYMCAFETERIA AND KITCHEN, 1857, 13, 24141, 24141, 1, 111.0486, YES.

Table with 12 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. Row 1: RTU-30, 10.3, 4-454B, AZL, 4.6, 0.0046, PLATFORM, 627, 13, 8151, 8151, 1, 37.496, YES.

Table with 12 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. Row 1: RTU-31, 10.3, 4-454B, AZL, 4.6, 0.0046, GYMCAFETERIA, 1232, 16, 19712, 19712, 1, 90.6752, YES.

RTU 1 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 2,3,4 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 5,7 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 6,8 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 9,10,11,12 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 13 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 14 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 15 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 16,17,18,19 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 20, 23 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 21 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 22 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 24 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 25,26 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 27 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 28 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.

RTU 29,30,31 OUTSIDE AIR VENTILATION CALCULATIONS (OA). Table with columns: ROOM NUMBER, ROOM NAME, PRIMARY, SECONDARY, ZONE AREA, ZONE PRIMARY AIR CFM, PEOPLE OUTSIDE AIR RATE, AREA OUTSIDE AIR RATE, OCCUPANT DENSITY, TOTAL PEOPLE, BREATHING ZONE OUTSIDE AIR CFM, ZONE OUTSIDE AIR FRACTION, PRIMARY OUTSIDE AIR FRACTION, PEOPLE OUTSIDE AIR CFM, ROOM OUTSIDE AIR CFM. Includes summary rows for Total Supply Air CFM and Corrected Outside Air Intake.



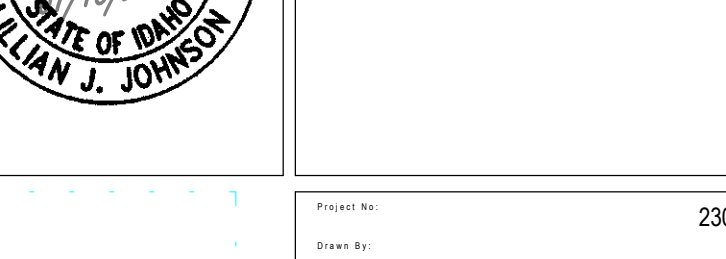
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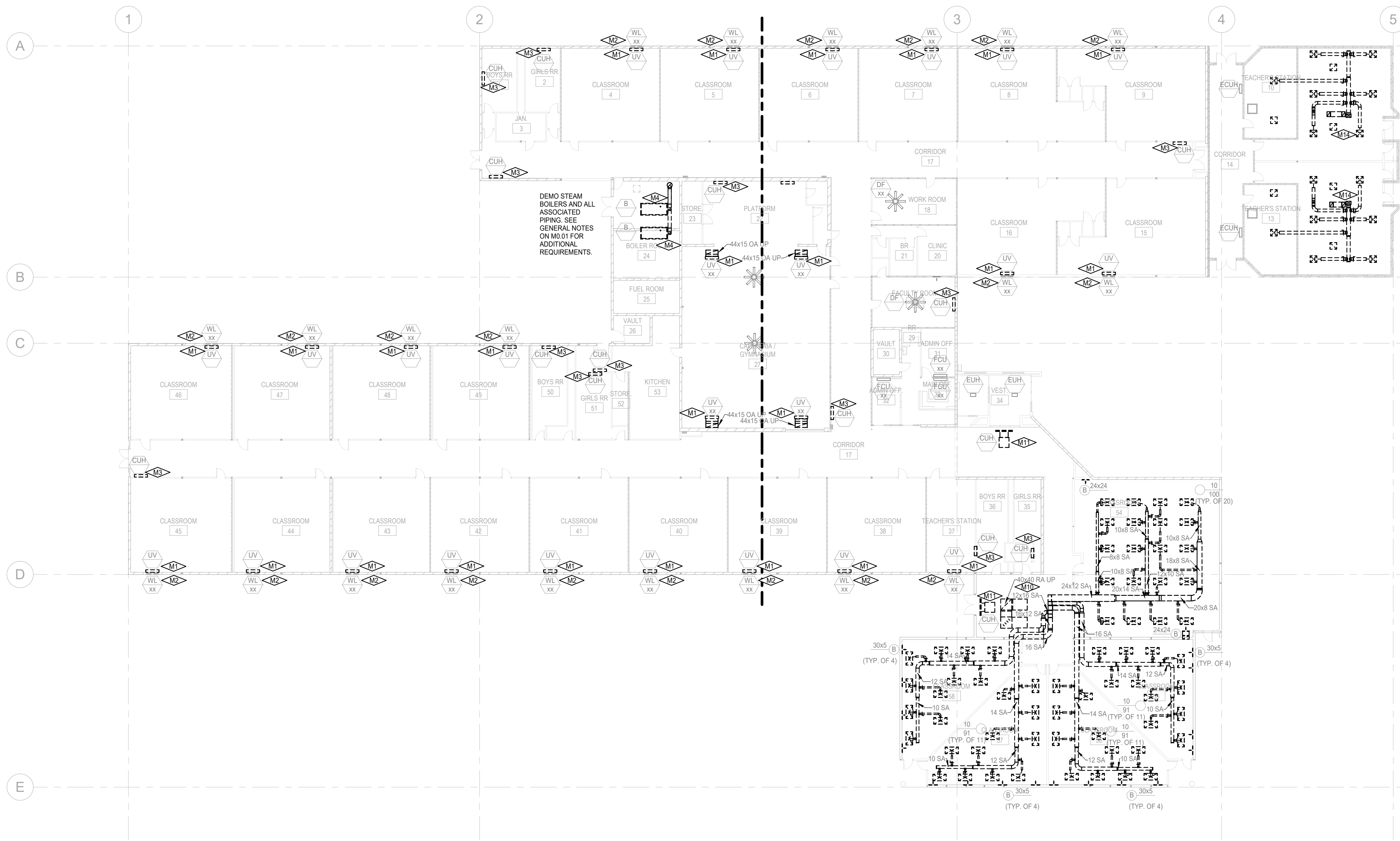
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Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

MECHANICAL SCHEDULES



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.



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

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

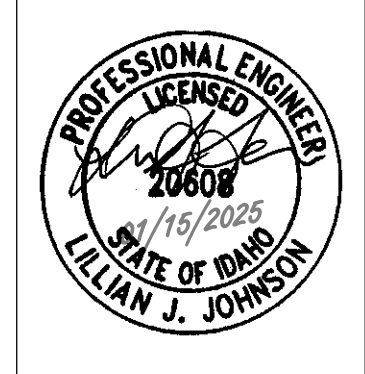
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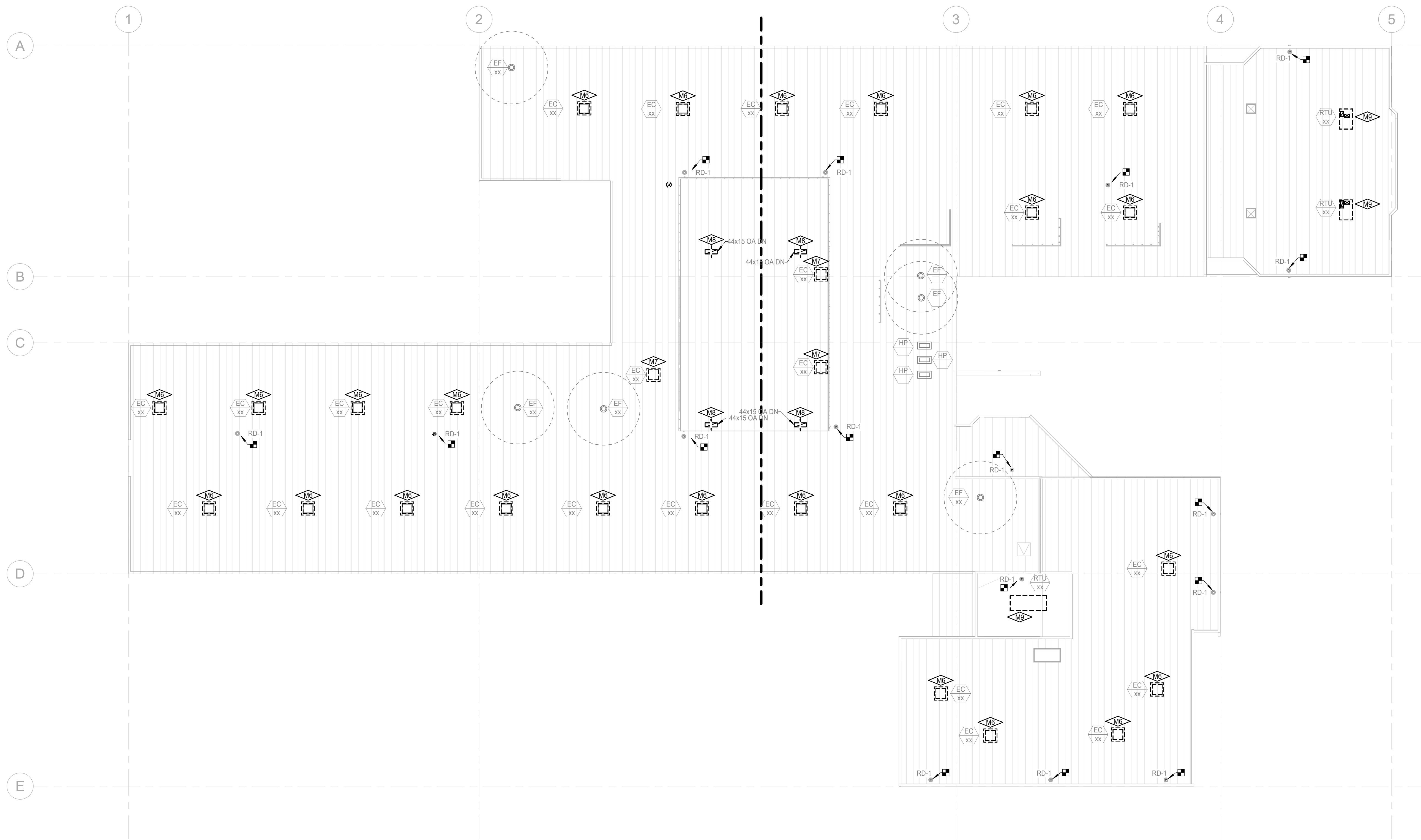
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HVAC DEMOLITION PLAN



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Checked: MG
Date: 1/15/2025
Drawn: MD1.01

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

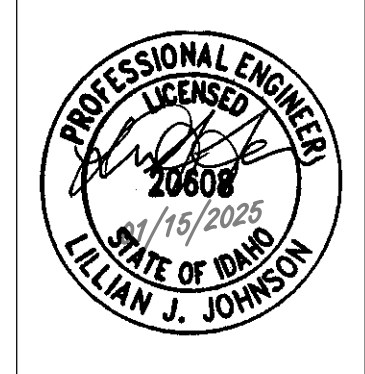
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ROOF MECHANICAL DEMOLITION PLAN

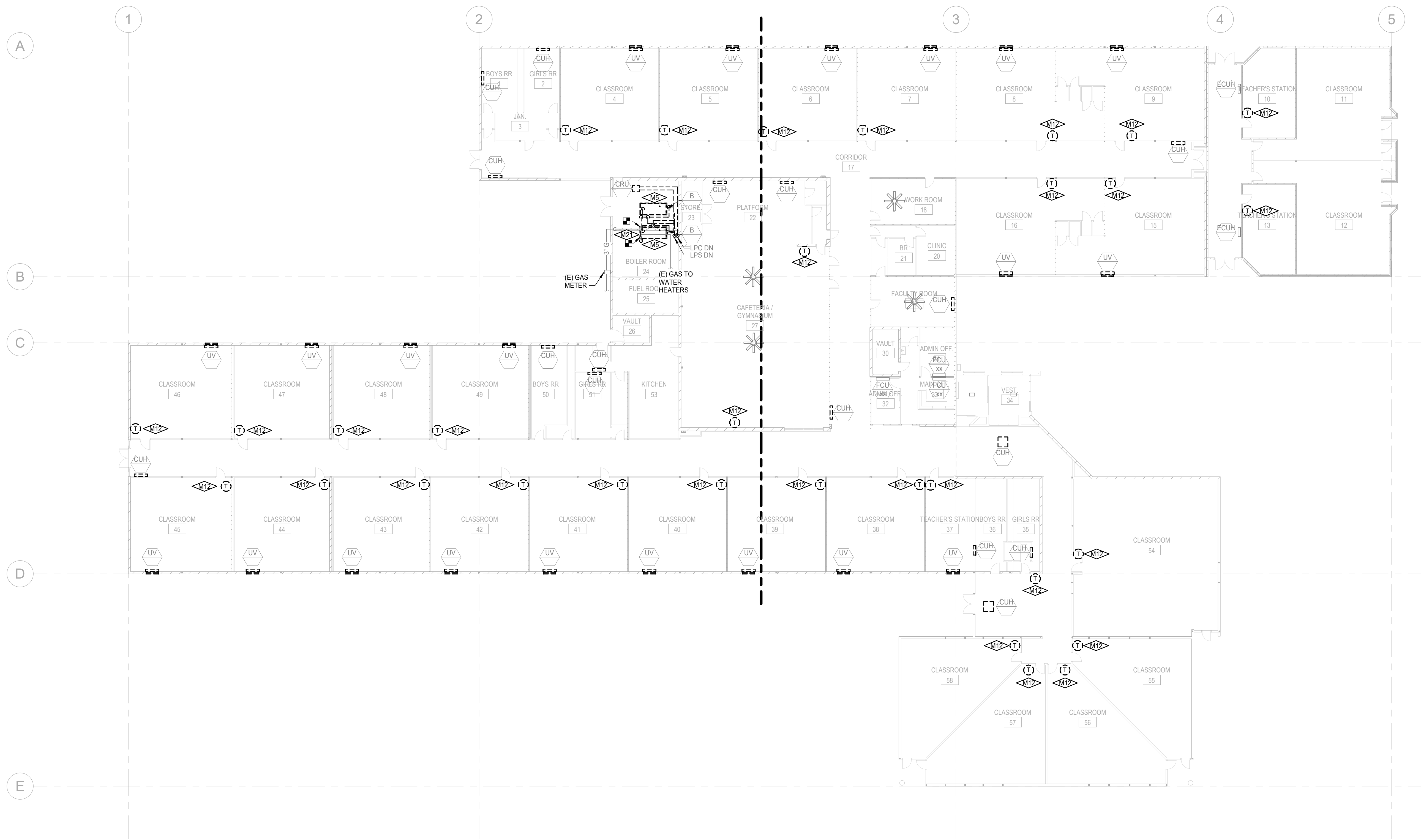
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1/15/2025

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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" = 1'-0"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

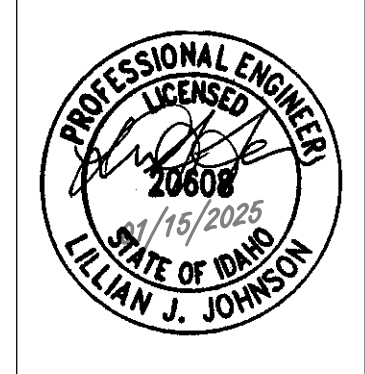
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HVAC PIPING DEMOLITION PLAN

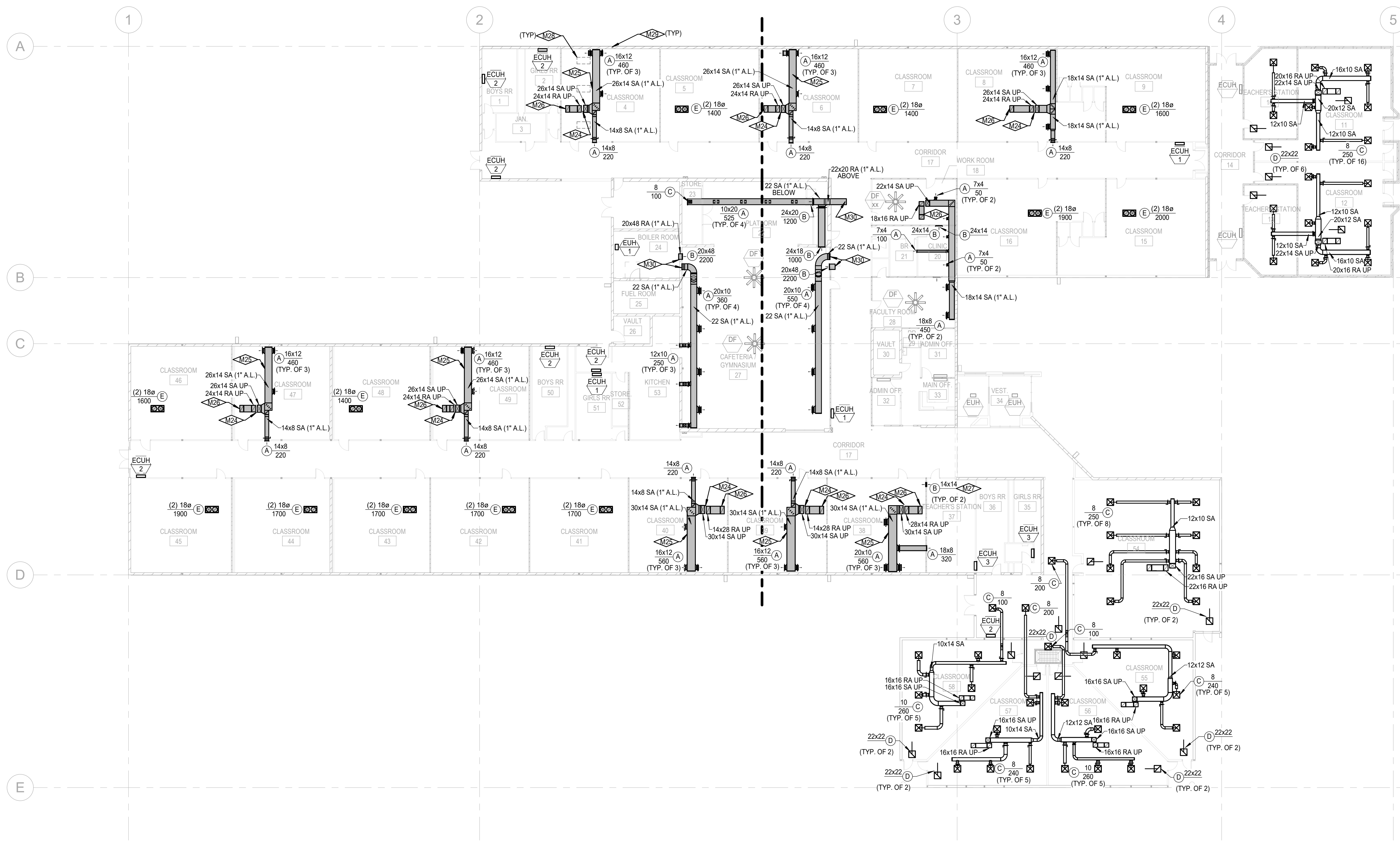
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MD2.11

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, DRAWING IS NOT TO SCALE

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HVAC PLAN

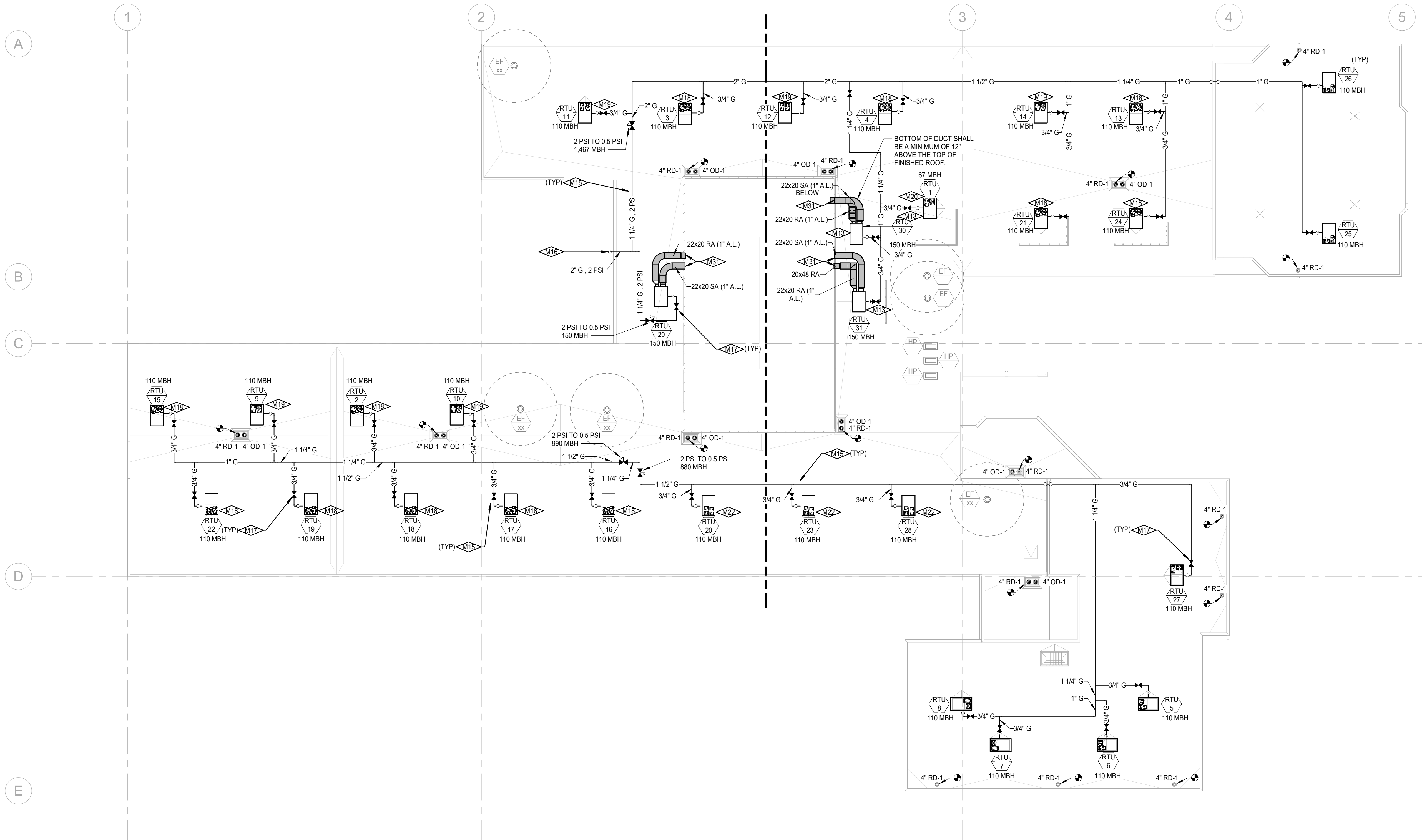
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Date: AK
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M1.01

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, ELBOWS, AND VALVES.
- M16 DROP 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 OPENING 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
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1" SCALE
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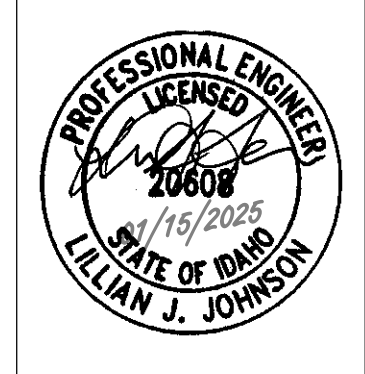
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ROOF MECHANICAL PLAN

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KEYNOTES

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



HVAC PIPING PLAN
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1" SCALE
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DRAWING IS NOT TO SCALE

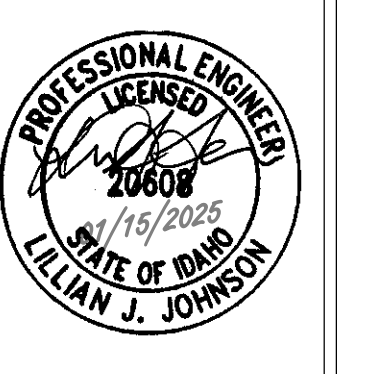
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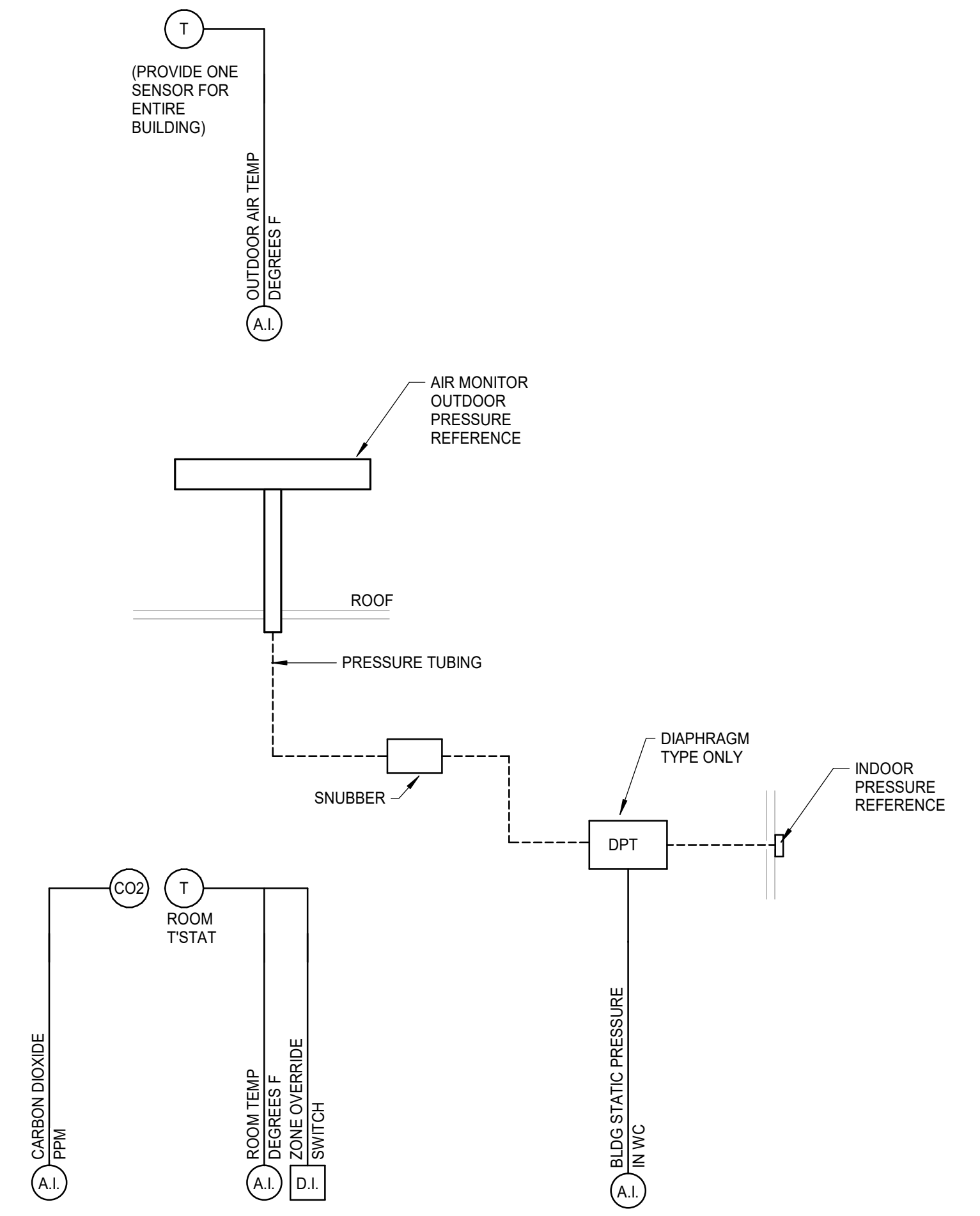
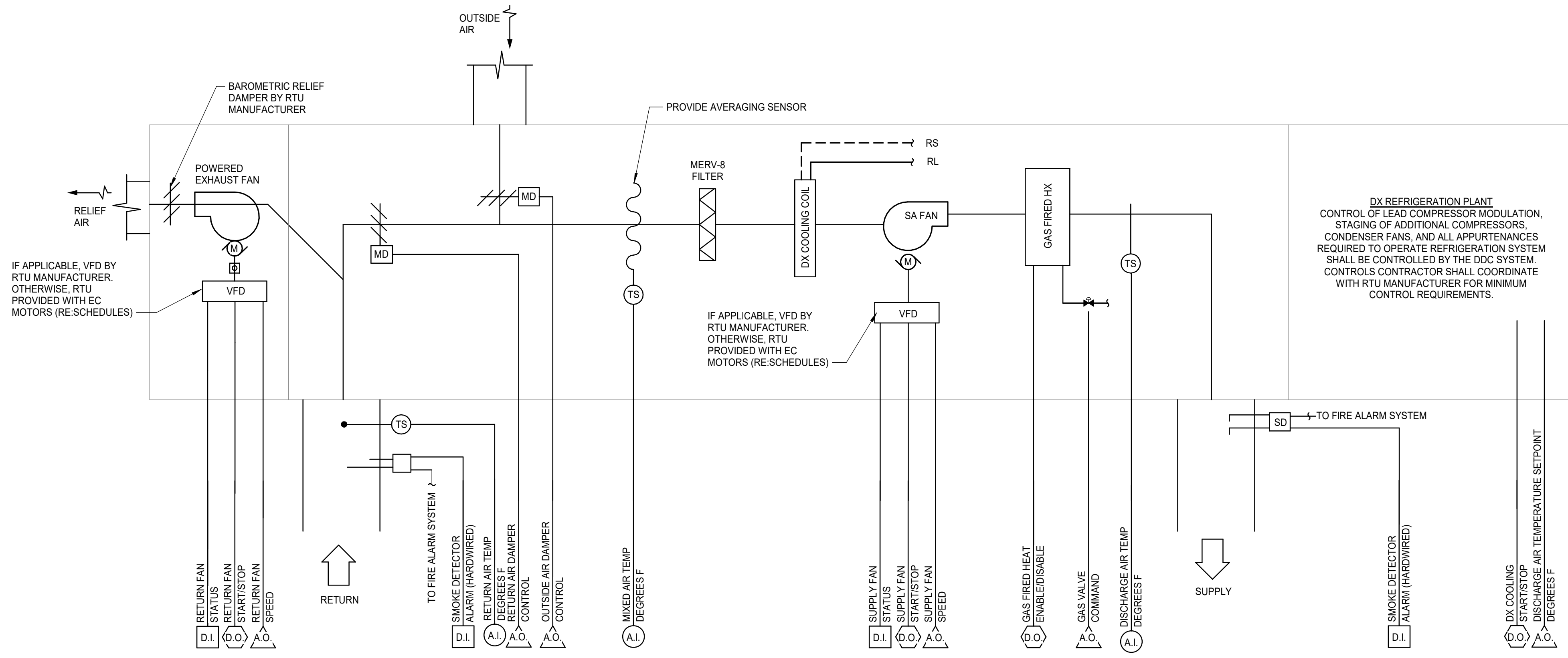
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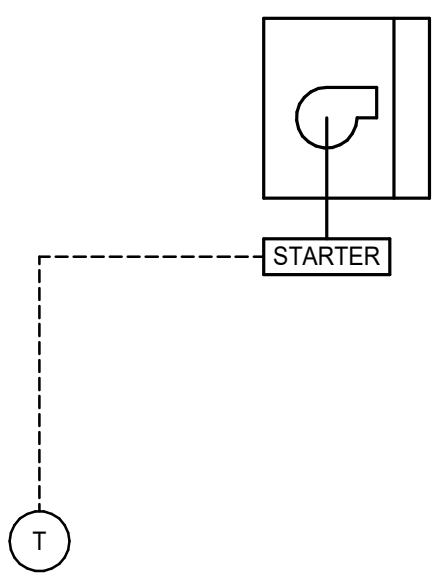
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Sheet No.	M2.11



ROOFTOP UNIT - VAV, RELIEF FANS, GAS HEAT, SINGLE ZONE
SCALE: NONE

SEQUENCE OF OPERATION:

- CABINET UNIT HEATERS AND UNIT HEATERS:
- HEATER SHALL OPERATE VIA STANALONE 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.



UNIT & CABINET UNIT HEATER - ELECTRIC
SCALE: NONE

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 55 deg F
 - NSB cooling: If the zone temperature rises above their unoccupied cooling setpoints the AHU shall enter Night Setback Mode until the zone is 5°F below the unoccupied setpoint.
 - The OA damper shall be closed in NSB mode that unit shall operate in 100% return air mode unless outside air temperature is below the supply air temperature setpoint. Then outside air shall be utilized for cooling
 - Supply air setpoint is 55 deg F
- 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

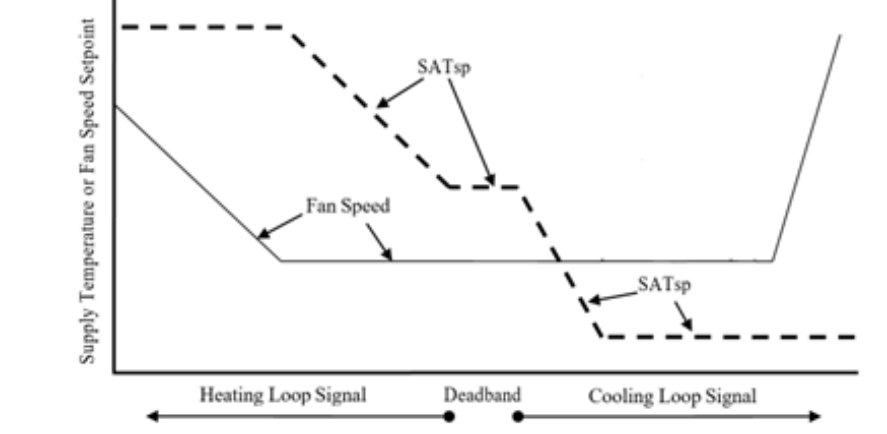
DIAGRAM NOTES:

- 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.
 - If the unit is equipped with a VFD, Fan speeds shall be as follows:
 - Fan speed shall be reset linearly based on space temperature.
 - When space is satisfied operate at Min-speed. As the heating or cooling 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 SATsp shall be the average of the zone heating setpoint and the zone cooling setpoint, but shall be no lower than 70°F and no higher than 75°F.
 - When the supply fan is proven on, fan speed and supply air temperature setpoints are controlled as shown in the following diagrams and text. The points of transition along the x-axis shown and described below are representative. Contractor shall adjust the precise value of the x-axis thresholds shown in the figure to provide stable control.



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

- 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 maintaining the mixed air temperature and modulating the outdoor air damper to achieve the ventilation setpoint. The volume of outdoor air is determined by a weighted ratio of the return and outdoor air temperatures. The BAS shall evaluate the actual temperatures and calculate the appropriate ratio every 15min (minimum) and modulate the outdoor air damper to achieve the required volume of outdoor air (based on the calculated mixed air temperature).
 - The Outdoor Air Volume is calculated as follows:
 - $\% \text{ OUTSIDE AIR} = (\text{TEMP}_{\text{ret}} - \text{TEMP}_{\text{setpoint}}) / (\text{TEMP}_{\text{outdoor air}} - \text{TEMP}_{\text{ret}})$
 - $\text{OUTDOOR AIR VOLUME} = \% \text{OA} \cdot \text{UNIT CAPACITY} \cdot (\text{SUPPLY FAN SPEED} / 100)$

VARIABLE	VALUE
SP _{min}	SP _{min}
SP _{max}	ABSOLUTE MIN OA
T _{max}	VENTILATION MAX OA
T _{min}	10 MINUTES
T _{off}	2 MINUTES
R	ZONE VENTILATION REQUESTS
SP _{min}	+100 CFM
SP _{max}	200 CFM
SP _{min-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. The setpoint shall be determined during balancing (utilize +0.04" wc as the base condition). This setpoint should be determined in 100% economizer mode and should result in a slightly positive building in that mode.

100% CD

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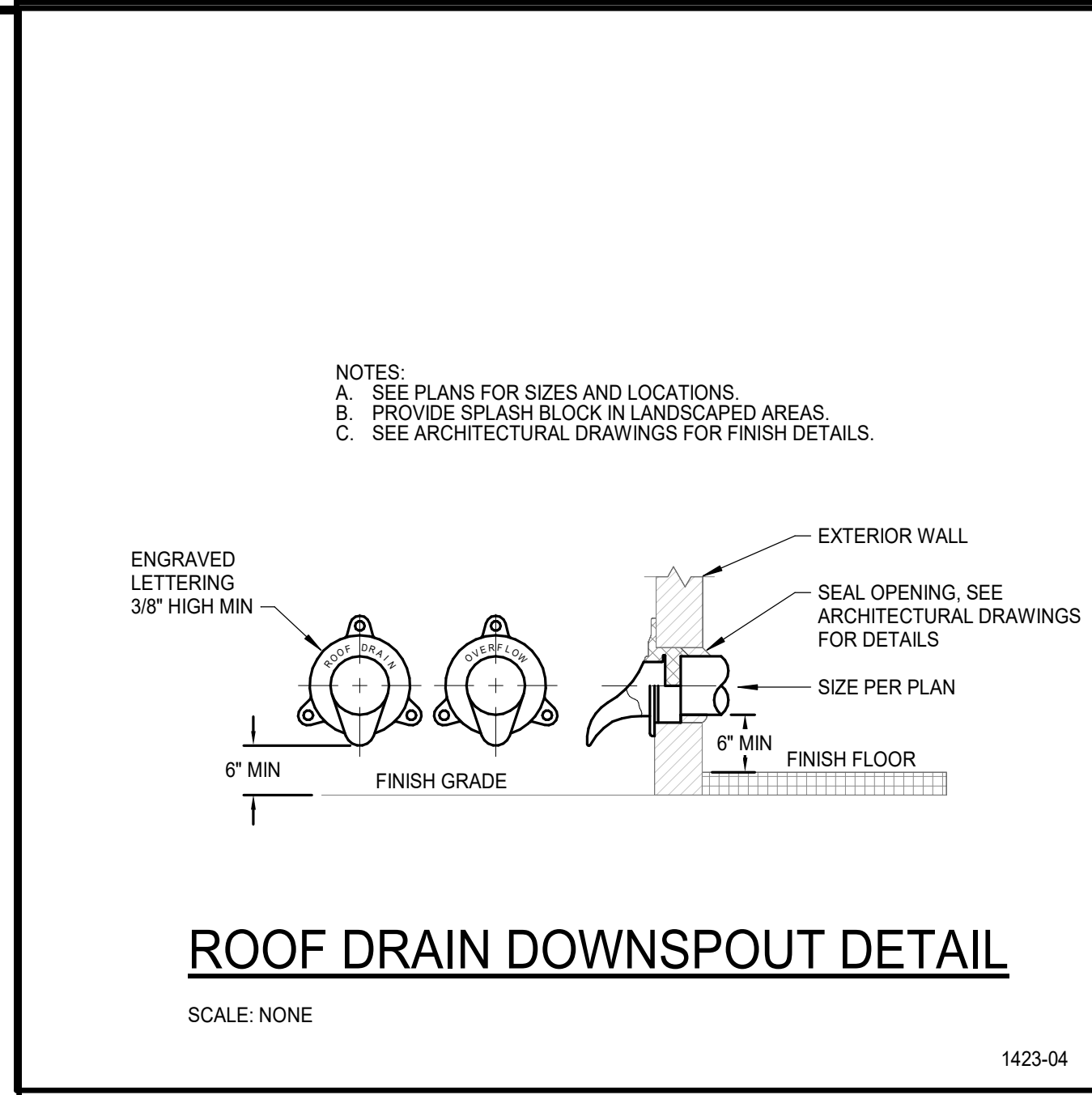
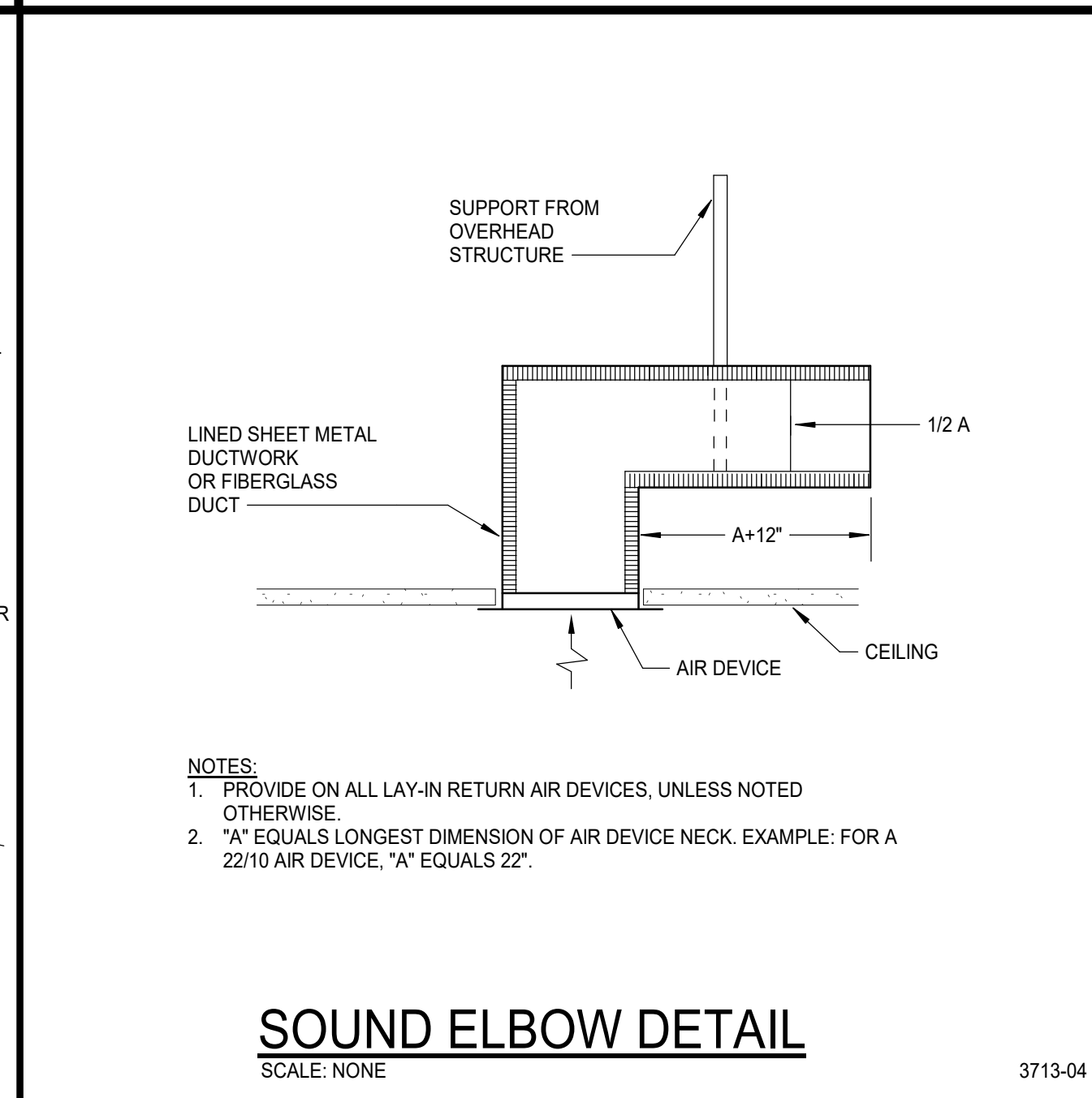
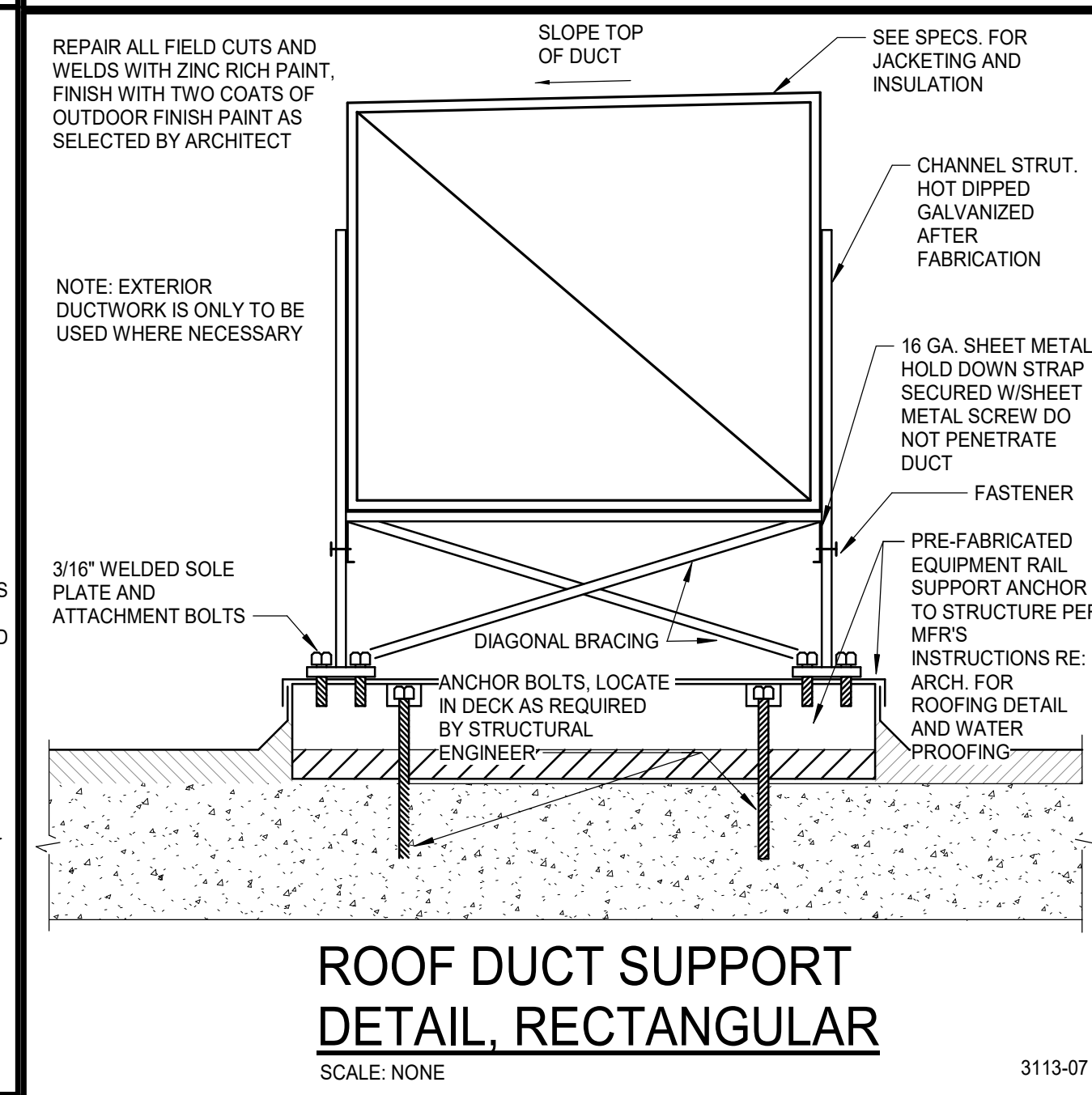
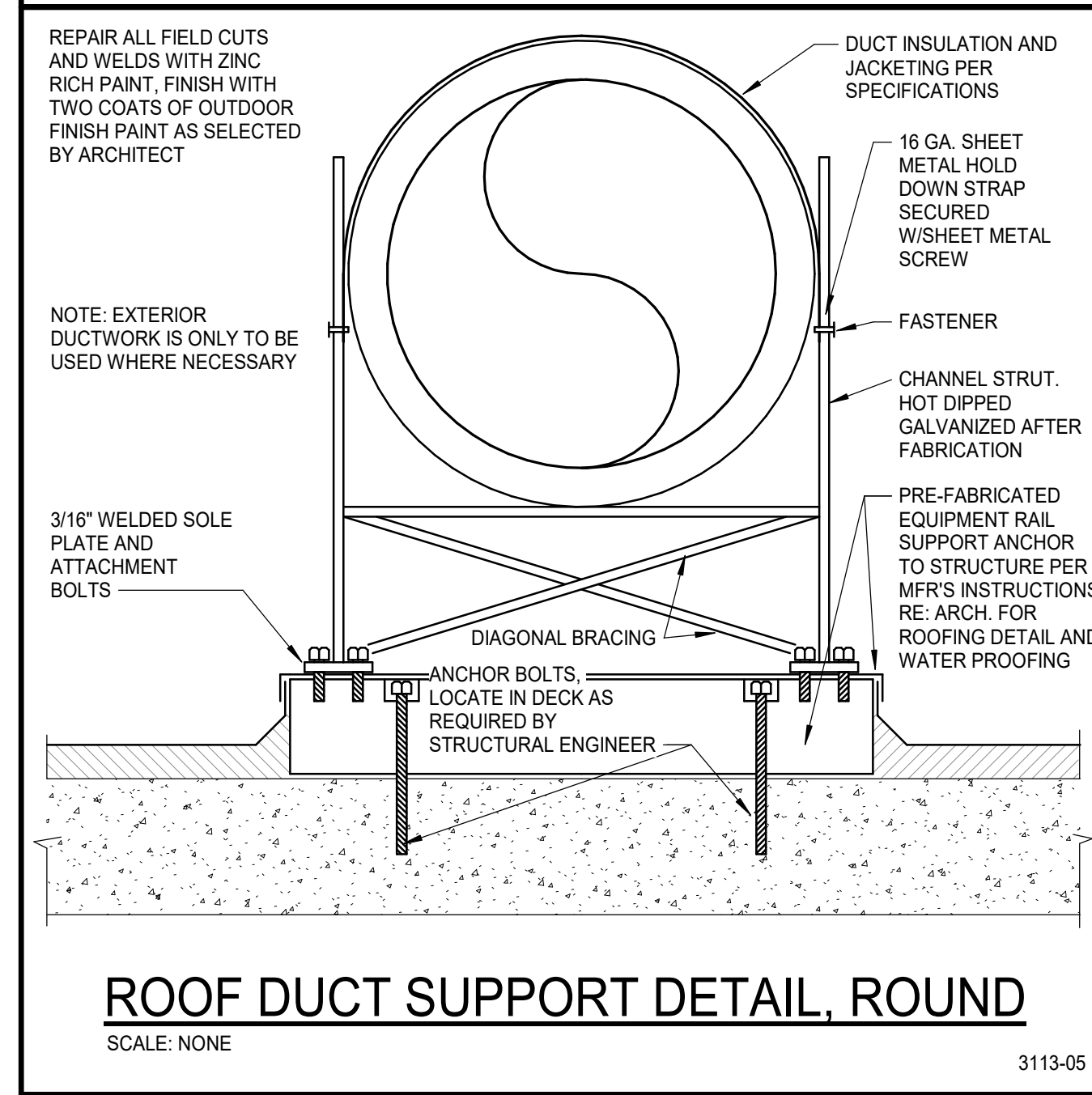
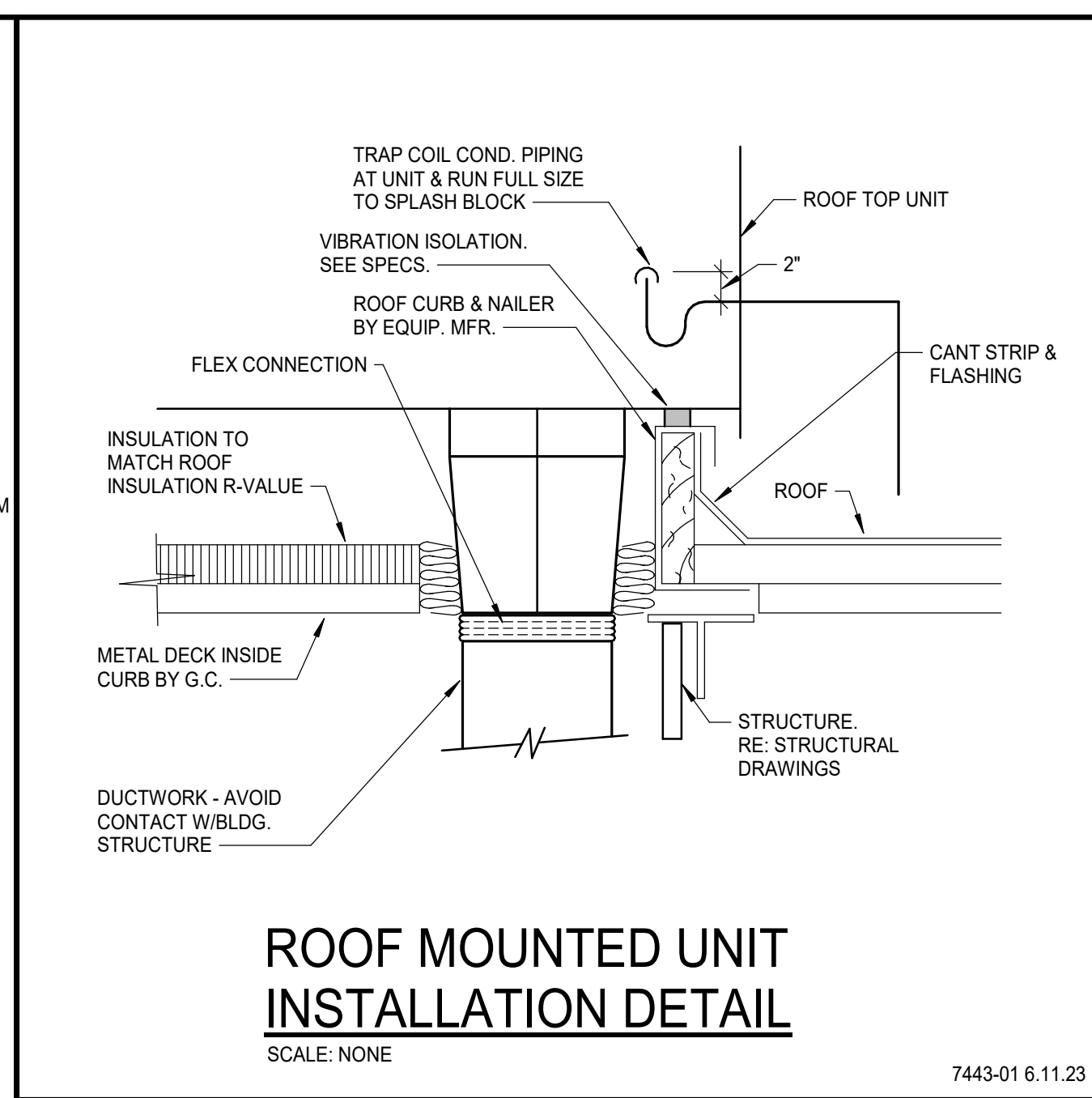
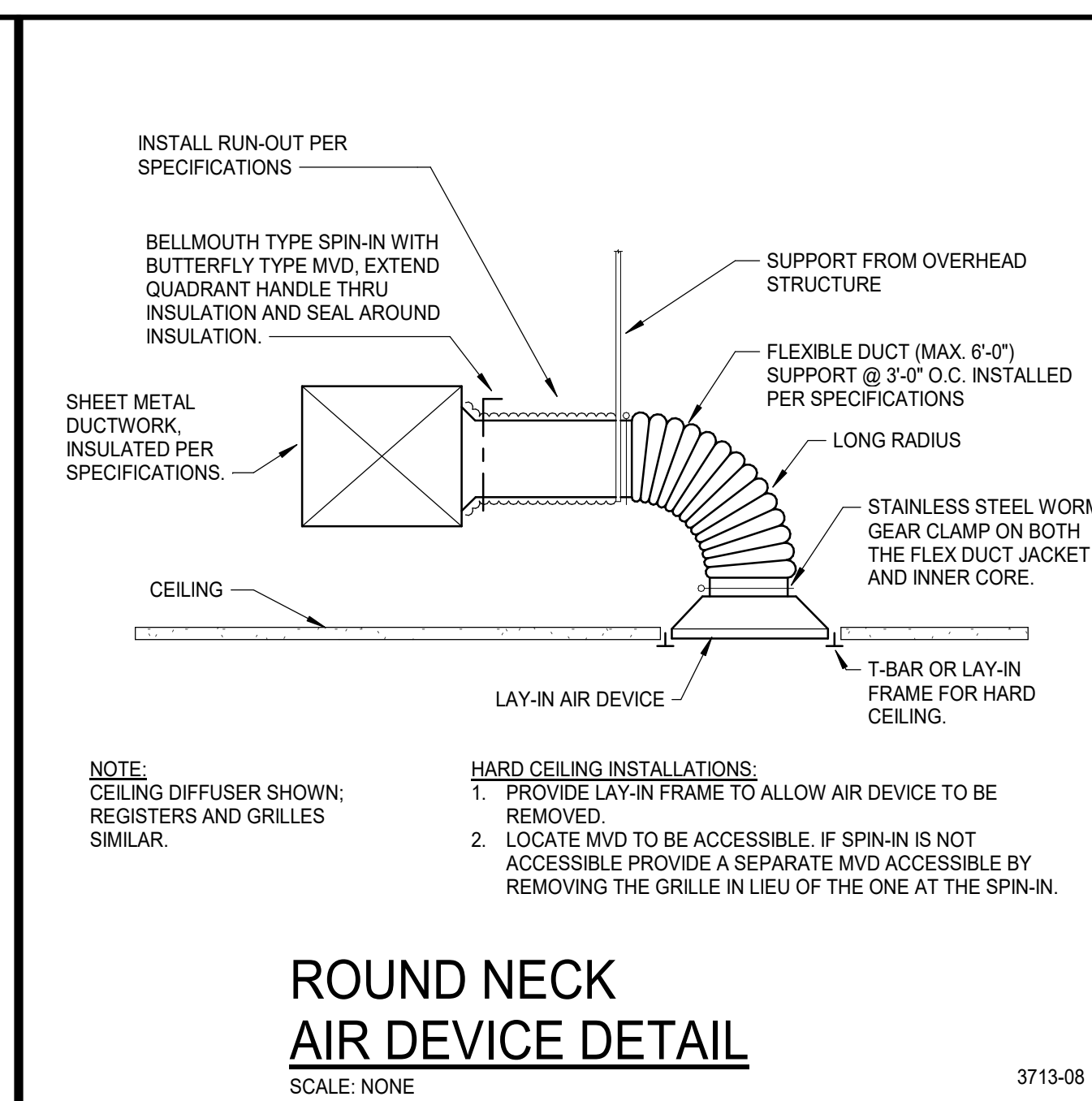
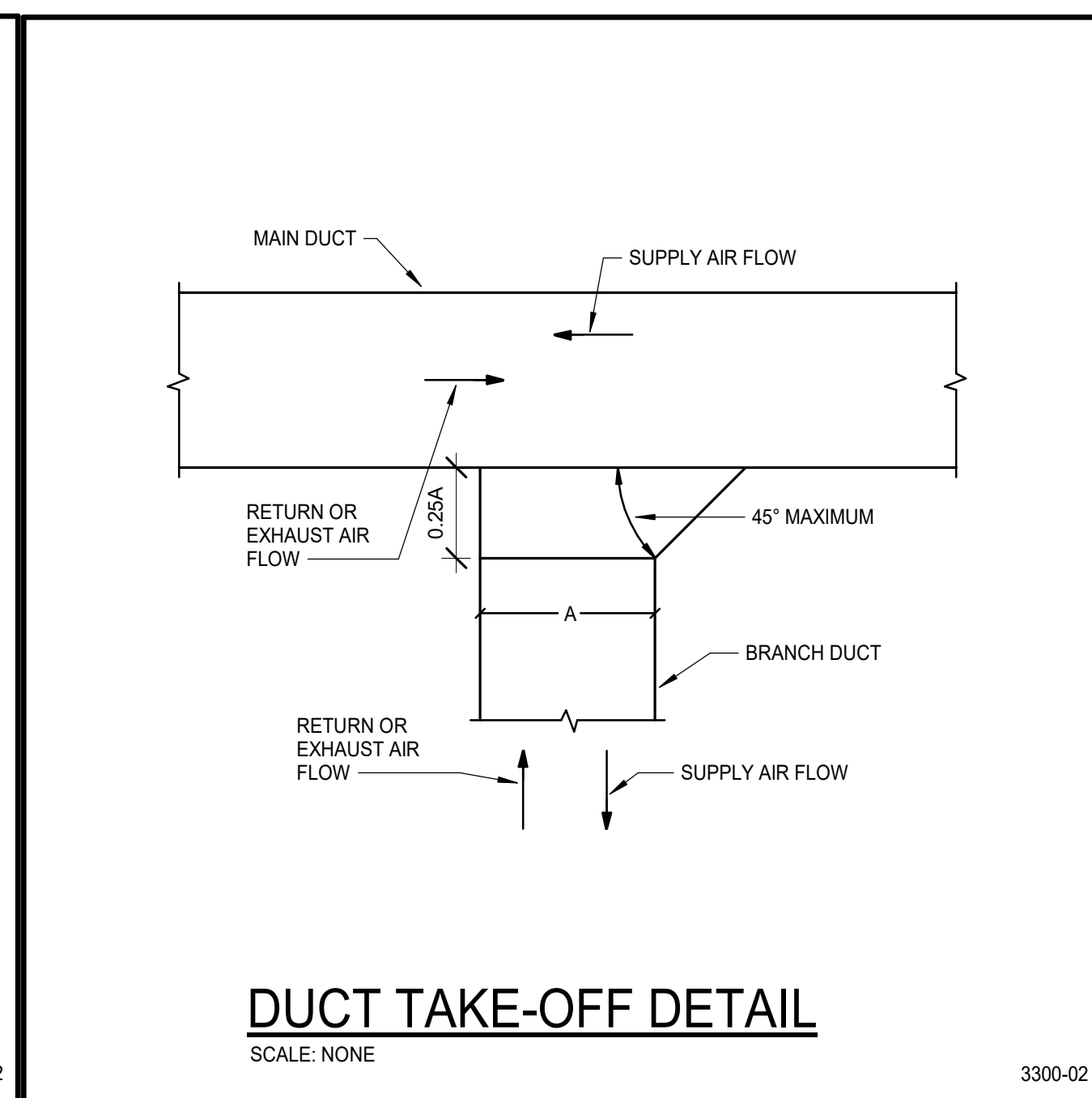
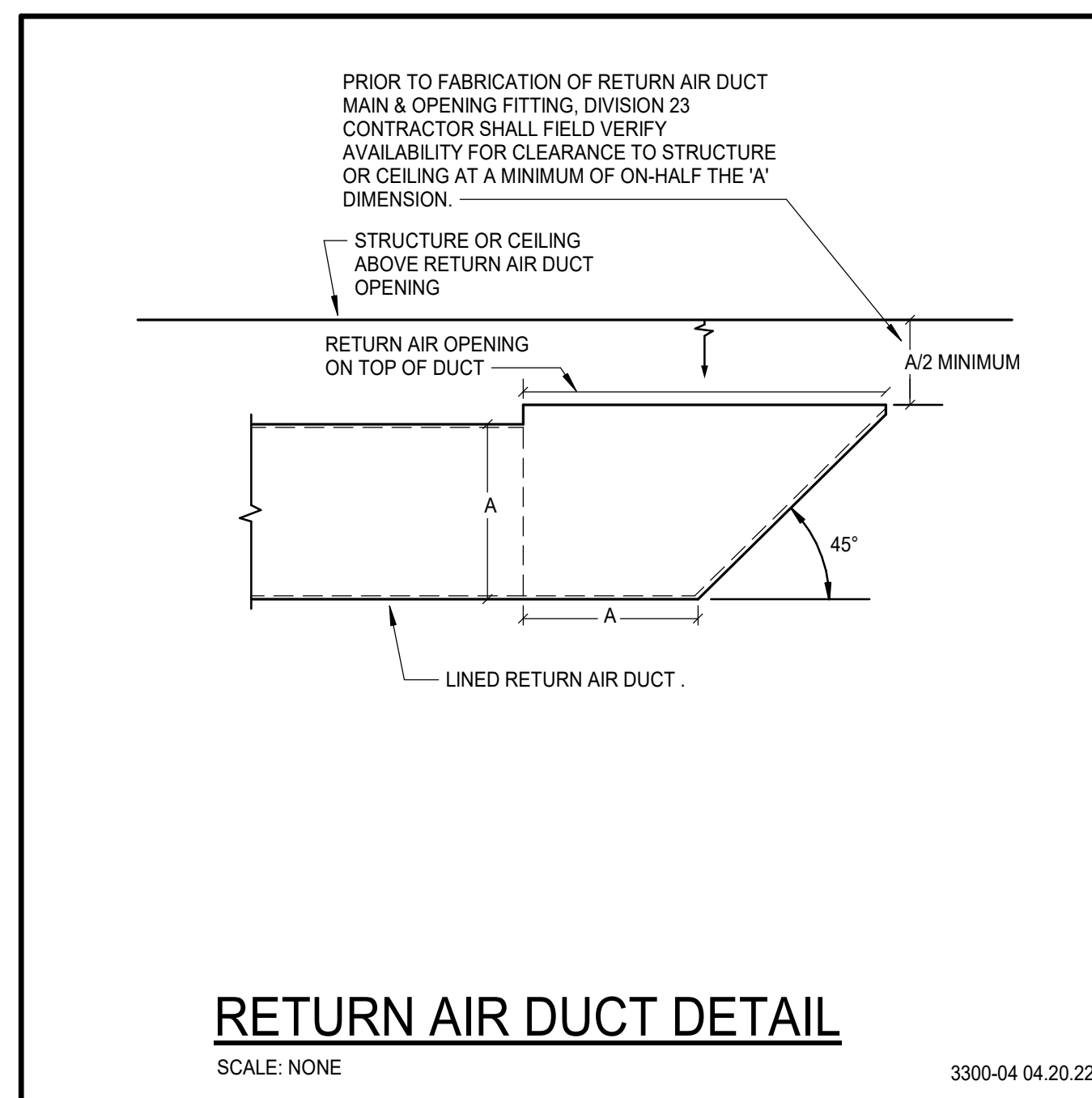
Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT
Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

MECHANICAL CONTROLS

PROFESSIONAL ENGINEER
LILLIAN J. JOHNSON
STATE OF IDAHO
1978-2025

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Date	1/15/2025

Sheet No. **M3.11**



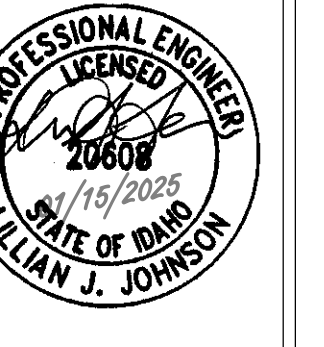
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Morningside Elementary School
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Twin Falls, ID 83301

MECHANICAL DETAILS

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1/15/2025

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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			PRESSURE / TEMPERATURE TAP
		RADIATOR ENCLOSURE LENGTH (OR W-W/WALL-TO-WALL)	PIT		STRAINER
		KEY NOTE REFERENCE			STRAINER W/ BLOWDOWN
		KITCHEN/OWNER/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.		THRUST BLOCK
(R)		RELOCATED			MANUAL AIR VENT
(F)		FUTURE	TB		AUTOMATIC AIR VENT
DIA	Ø	DIAMETER			
WAD		WALL ACCESS DOOR	MAV		
NC		NOT IN CONTRACT	AAV		
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			

PLUMBING LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
CW		DOMESTIC COLD WATER PIPING	GOOSCO		GRADE CLEANOUT / SURFACE CLEANOUT
HW		DOMESTIC HOT WATER PIPING	FCO		FLOOR CLEANOUT
HWC		DOMESTIC HOT WATER CIRC PIPING	WCO		WALL CLEANOUT
CW-S		SOFTENED DOMESTIC COLD WATER PIPING	CO		LINE CLEANOUT
HW-S		SOFTENED DOMESTIC HOT WATER PIPING	AD		AREA DRAIN
140°F HW		DOMESTIC HOT WATER PIPING @ TEMP SHOWN	FD		FLOOR DRAIN
140°F HWC		DOMESTIC HOT WATER CIRC PIPING @ TEMP SHOWN	FS		FLOOR SINK
TW		TEPID WATER PIPING	RD / OD		ROOF DRAIN OR OVERFLOW DRAIN
TWC		TEPID WATER CIRC PIPING			
ICW		INDUSTRIAL COLD WATER PIPING	VB		ATMOSPHERIC VACUUM BREAKER
IHW		INDUSTRIAL HOT WATER PIPING	BFP		BACKFLOW PREVENTER
IHWC		INDUSTRIAL HOT WATER CIRC PIPING	SA		SHOCK ARRESTOR W / ISOLATION VALVE
NPCW		NON-POTABLE COLD WATER PIPING	GC		GAS SHUT-OFF VALVE
NPHW		NON-POTABLE HOT WATER PIPING			STOP AND DRAIN VALVE
NPHR		NON-POTABLE HOT WATER CIRC PIPING	BV		BALANCING VALVE
V		VENT PIPING	WH		WALL HYDRANT
AV		ACID RESISTANT VENT PIPING	HB		HOSE BIBB
W		WASTE PIPING	RH		ROOF HYDRANT
W		WASTE PIPING BELOW FLOOR	YH		YARD HYDRANT
AW		ACID RESISTANT WASTE PIPING	DSN		DOWNSPOUT NOZZLE
AW		ACID RESISTANT WASTE PIPING BELOW FLOOR	MH		MANHOLE
GW		GREASE WASTE (TO GREASE INTERCEPTOR)	CI		CAST IRON
GW		GREASE WASTE PIPING BELOW FLOOR	CB		CATCH BASIN
SD		STORM DRAIN PIPING	VTR		VENT THRU ROOF
SD		STORM DRAIN PIPING BELOW FLOOR	IE		INVERT ELEVATION
OD		OVERFLOW DRAIN PIPING	PVC		POLYVINYL CHLORIDE
OD		OVERFLOW DRAIN PIPING BELOW FLOOR			
CA		COMPRESSED AIR			
G		NATURAL GAS PIPING			

PLUMBING SPECIALTY SCHEDULE					
NOTES:					
1. COORDINATE WITH ROOF/WALL CONSTRUCTION FOR EACH FIXTURE.					
DESIG.	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL #	REMARKS
DSN-1	DOWNSPOUT NOZZLE WITH HINGED COVER	EXTERIOR WALL	J.R. SMITH	1775-CP	CHROME PLATED BRASS FINISH WITH WALL FLANGE
OD-1	OVERFLOW ROOF DRAIN	ROOF	J.R. SMITH	1070	CAST IRON DRAIN WITH CAST IRON DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVER ASSEMBLY AS REQUIRED
RD-1	ROOF DRAIN	ROOF	J.R. SMITH	1010	CAST IRON DRAIN WITH CAST IRON DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVER ASSEMBLY AS REQUIRED

GENERAL NOTES:

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

PLUMBING NOTES:

- CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
- THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS. VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS.
- SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- ALL EXISTING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING CONTROLS, HANGERS, SUPPORTS AND ANY MISCELLANEOUS ASSOCIATED SERVICE OR PART REMOVED COMPLETELY.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE ELEVATIONS AND LOCATIONS.
- INVERT ELEVATIONS SHOWN ARE BASED ON A GROUND FLOOR FINISH ELEVATION OF 100 FT.
- SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR DIMENSIONED LOCATION OF PLUMBING FIXTURES AND WALLS.
- PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS PER THE PROJECT SPECIFICATIONS AND LOCAL PLUMBING CODES.

DEMOLITION GENERAL NOTES:

- 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 CONTRACT DOCUMENT.
- PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- WHERE EXISTING PIPING, WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
- WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.

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:

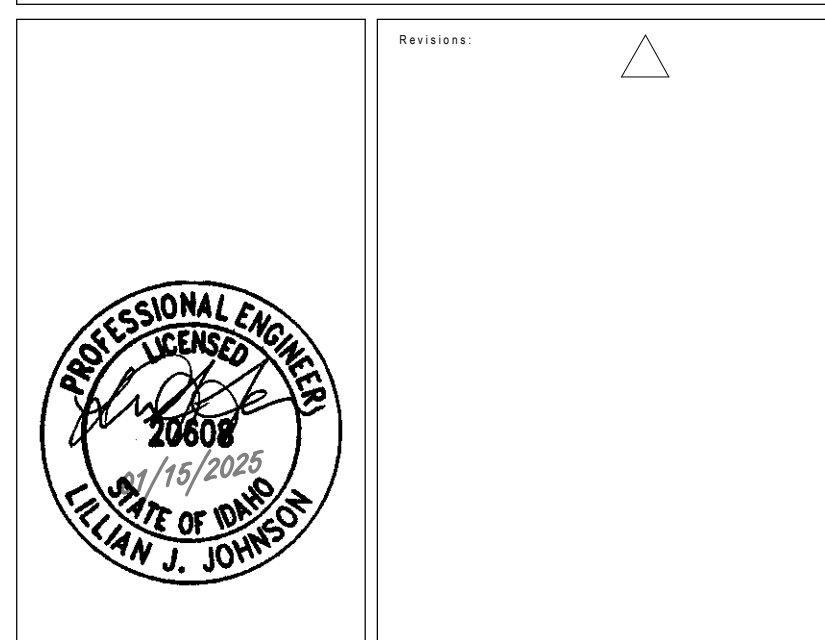
1. ALL ROOMS TO BE LIGHT HAZARD UNLESS NOTED OTHERWISE ON THE PLANS.
- LIGHT HAZARD, 0.1 GPM OVER 1,500 SQ FT
 ORDINARY HAZARD GROUP 1, 0.15 GPM OVER 1,500 SQ FT
 OH2 ORDINARY HAZARD GROUP 2, 0.2 GPM OVER 1,500 SQ FT
 XH1 EXTRA HAZARD, GROUP 1, 0.3 GPM OVER 2,500 SQ FT
 XH2 EXTRA HAZARD, GROUP 2, 0.4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

100% CD



Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT
 Morningside Elementary School
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PLUMBING LEGENDS & NOTES

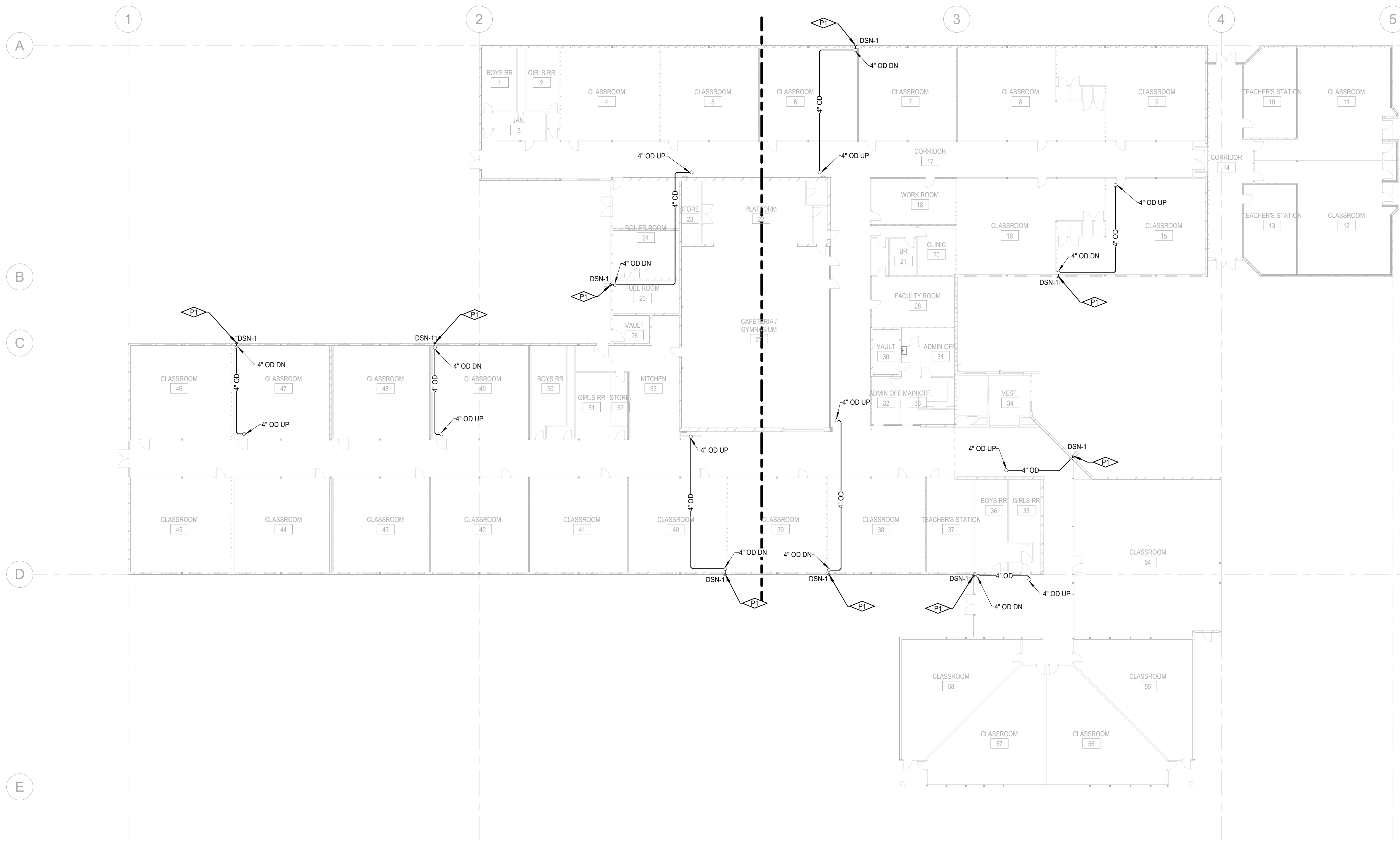


Sheet No. 23028
 Date: AK
 Design: MG
 Date: 1/15/2025

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KEYNOTES

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



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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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
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Twin Falls, ID 83301

WASTE & VENT PLAN

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AK
MG
1/15/2025

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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
		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	ECENTRIC PIPE REDUCER
		DIFFUSER NECK DIAMETER	PRESSURE REDUCING VALVE
		DIFFUSER CFM	PTRV
		LINEAR DIFFUSER IDENTIFICATION	PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		LINEAR DIFFUSER NECK DIAMETER	ISOLATION VALVE (RE: SPEC FOR TYPE)
		LINEAR DIFFUSER LENGTH	VERTICAL PIPE VALVE
		LINEAR DIFFUSER CFM	CHECK VALVE
		FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH	SOLENOID / MOTORIZED VALVE
		EQUIPMENT UNIT IDENTIFICATION	SOLENOID VALVE
		EQUIPMENT UNIT NUMBER	SOLENOID VALVE
		RADIATOR ENCLOSURE LENGTH (OR W-W/WALL-TO-WALL)	HOSE END DRAIN VALVE
		KEY NOTE REFERENCE	PIT
		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE	STRAINER
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	STRAINER W/ BLOWDOWN
		POINT OF CONNECTION, NEW TO EXISTING	BRAIDED FLEXIBLE PIPE CONNECTOR
		POINT OF DISCONNECTION, DEMO	DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		DIRECTION OF FLOW IN PIPE	THERMOMETER
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED	PRESSURE GAUGE
(E)		EXISTING	SIGHT GLASS
(N)		NEW	C.E.P.
(R)		RELOCATED	CEILING ACCESS PANEL
(F)		FUTURE	PUMP
DIA	Ø	DIAMETER	THRUST BLOCK
WAD		WALL ACCESS DOOR	MANUAL AIR VENT
NC		NOT IN CONTRACT	AAV
AVF		ABOVE FINISHED FLOOR	AUTOMATIC AIR VENT
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	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
PIV		POST INDICATOR VALVE	SIDEWALL SPRINKLER HEAD
FDC		FIRE DEPARTMENT CONNECTION	D24
			DRY SPRINKLER HEAD (SHAFT LENGTH)
		FHC	FIRE HOSE CABINET
		FVC	FIRE VALVE CABINET
		AIS	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.
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- 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
 Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

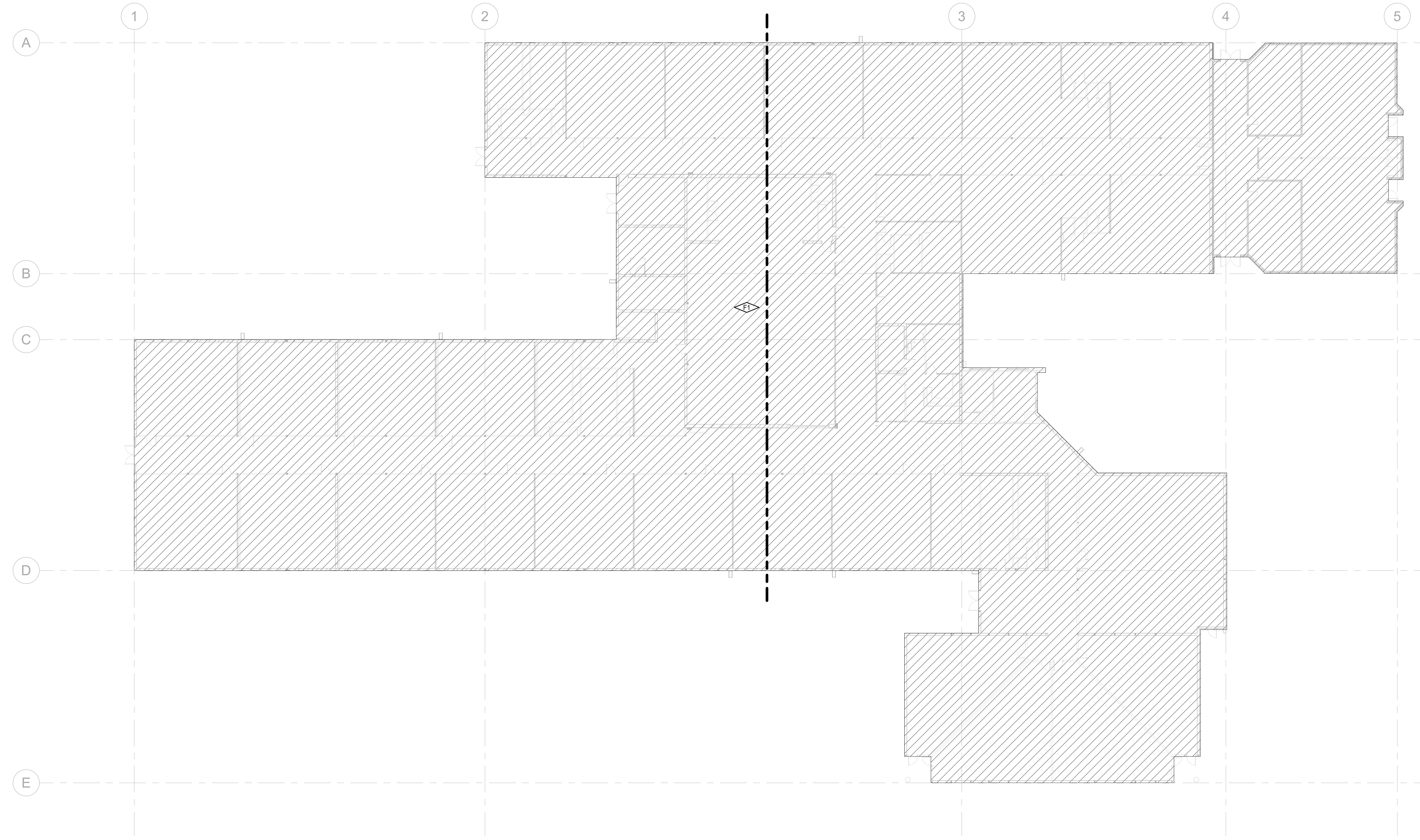
FIRE PROTECTION LEGENDS & NOTES

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Checked By:	AK
Design By:	MG
Date:	1/15/2025
Sheet No.:	F-001

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



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

1" = 1'-0"
IF LINE DOES NOT MEASURE 1 INCH, DRAWING IS NOT TO SCALE

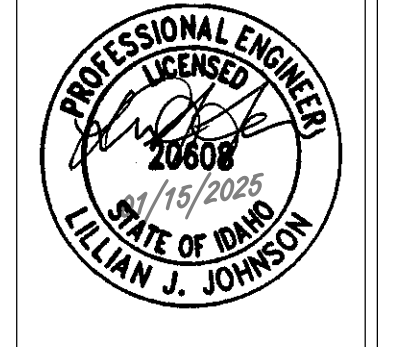
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FIRE PROTECTION PLAN SERIES

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A

B

C

D

E

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

CONTROLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)		VARIABLE SPEED/SPEED CONTROLLER SWITCH
	TWO POLE SWITCH		EXPLOSION PROOF SWITCH
	THREE-WAY SWITCH		THERMAL OVERLOAD SWITCH
	FOUR-WAY SWITCH		MOMENTARY CONTACT SWITCH
	KEY OPERATED SWITCH		COMBINATION SWITCH AND DUPLEX RECEPTACLE
	MANUAL SWITCH, HORSEPOWER RATE		PHOTOCELL
	DIMMER SWITCH		PUSH BUTTON
	SWITCH WITH PILOT LIGHT (PILOT LIGHT IS ON WHEN SWITCH IS ON)		TIME CLOCK
	SWITCH WITH PILOT LIGHT LOCATOR (CONTINUOUSLY LIGHTED HANDLE)		OCCUPANCY SENSOR - WALL MOUNTED (IR-INFRARED, US-ULTRASONIC, DT-QUAL TECHNOLOGY)
	LOW VOLTAGE SWITCH		

LIGHTING LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SHADING INDICATES EM SYSTEM. LOWER CASE SUBSCRIPT INDICATES SWITCHING. UPPER CASE SUBSCRIPT INDICATES LUMINAIRE TYPE (TYP)		PENDANT LUMINAIRE - SINGLE SUSPENSION
	TROFFER - RECESSED		PENDANT LUMINAIRE - MULTIPLE SUSPENSION
	SURFACE LUMINAIRE		WALL MOUNTED LUMINAIRE
	LINEAR LUMINAIRE - RECESSED		IN-WALL LUMINAIRE
	FIELD MEASURED LUMINAIRE. LENGTH AND SHAPE DENOTED BY LINEWORK. SUBSCRIPT IN RECTANGLE INDICATES LUMINAIRE TYPE		POLE LUMINAIRE - ARM MOUNTED
	DOWNLIGHT - RECESSED		POLE LUMINAIRE - POST TOP
	DOWNLIGHT - SURFACE		BOLLARD
	EXIT SIGN - CEILING MOUNTED		TRACK HEAD AND TRACK
	EXIT SIGN - WALL MOUNTED (FLUSH TO WALL)		EXTERIOR STAKE MOUNTED
	EXIT SIGN - WALL MOUNTED (PROJECTS FROM WALL)		EMERGENCY LIGHTING UNIT - WALL MOUNTED
	INDICATES EXIT SIGN FACES - SINGLE OR DOUBLE		EMERGENCY LIGHTING UNIT - CEILING MOUNTED
	INDICATES EXIT SIGN CHEVRONS - LEFT/RIGHT OR BOTH		INDICATES DIRECTIONAL AIMING

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

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

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

POWER PLAN NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
- COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. OCCUPANCY/VACANCY SENSING DEVICES ARE SHOWN FOR GENERAL DESIGN INTENT ONLY. CONTRACTOR SHALL PROVIDE THE TYPE AND QUANTITY OF OCCUPANCY/VACANCY SENSING DEVICES AS NECESSARY FOR PROPER COVERAGE AND CONTROL OF LUMINAIRES WHERE INDICATED ON THE LIGHTING PLANS. FIELD ADJUSTMENT TO DEVICE LOCATIONS SHALL BE MADE AS REQUIRED TO CAPTURE ALL OCCUPANTS, WHETHER SITTING AT A DESK OR MOVING AROUND THE SPACE. ADDITIONAL DEVICES SHALL BE PROVIDED AND FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY, AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

POWER PLAN NOTES:

- MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
- COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-2" MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
- NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, SHOWER ROOMS, LOCKER ROOMS, GARAGES, SERVICE BAYS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, AT ELECTRIC WATER COOLERS, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210 AND NEC SECTION 422.5. PROVIDE GFCI RECEPTACLES IN ELEVATOR PITS, HOISTWAYS, MACHINE ROOMS, CONTROL SPACES, AND CONTROL ROOMS PER NEC SECTION 620.88. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED. WHERE GFCI DEVICES ARE REQUIRED AND/OR SHOWN BUT ARE NOT ACCESSIBLE WHEN EQUIPMENT IS INSTALLED, I.E. VENDING MACHINES, ETC., PROVIDE BLANK FACE GFCI DEVICE AND COVERPLATE, AHEAD OF INACCESSIBLE RECEPTACLES. MOUNT ADJACENT TO EQUIPMENT AT SWITCH HEIGHT UNLESS OTHERWISE SHOWN.
- 120V POWER HAS BEEN SHOWN ON DRAWINGS TO J-BOXES IDENTIFIED FOR BAS CONTROLS, DAMPER ACTUATORS AND OTHER MISCELLANEOUS POWER TO OPERATE MECHANICAL CONTROLS AND DEVICES. COORDINATE ALL 120V REQUIREMENTS WITH MECHANICAL CONTROLS AND EQUIPMENT AND MAKE ALL CONNECTIONS REQUIRED TO THESE OR OTHER 120V MECHANICAL CIRCUITS AS REQUIRED. DO NOT CONNECT THESE LOADS TO OTHER CIRCUITS WITH LOADS OTHER THAN THOSE IDENTIFIED HERE.
- ALL OUTDOOR AND ROOFTOP RECEPTACLES SHALL BE OUTDOOR RATED AND SHALL HAVE A WEATHERPROOF IN USE COVER.

ONE-LINE DIAGRAM NOTES:

- PANELBOARDS INDICATED ON ONE-LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULE(S).
- EXISTING ONE-LINE DIAGRAM TAKEN FROM OWNER FURNISHED DRAWINGS. EXISTING INFORMATION SHOWN OTHER THAN LOCATIONS IMPACTED BY NEW WORK HAS NOT BEEN VERIFIED.
- COORDINATE THE MOUNTING, CONDUIT, WIRE, AND OCPD SIZE FOR SPD'S WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GENERAL NOTES:

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

DEMOLITION NOTES:

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

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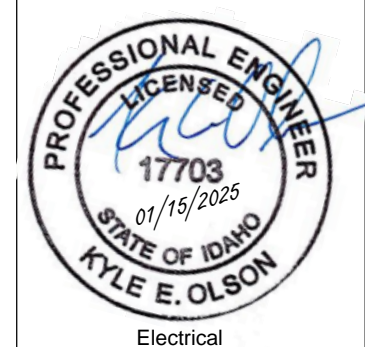
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
ELECTRICAL LEGENDS & NOTES

100% CD



Revisions:	

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

Sheet No:
E0.01

LUMINAIRE SCHEDULE

COMMON NOTES:

- A. CATALOG NUMBER REFERS TO FIRST NAME LISTED UNDER MANUFACTURER PER LUMINAIRE TYPE. REMAINING MANUFACTURERS LISTED ARE CONSIDERED TO BE EQUIVALENT PRODUCTS FOR THIS PROJECT AND SHALL MEET ALL CRITERIA LISTED INCLUDING THAT CALLED FOR BY THE SPECIFIC LUMINAIRE CATALOG NUMBER.
B. PROVIDE UNIT PRICING FOR ALL LUMINAIRES BY TYPE AND SUBMIT WITH BID FORM.
C. PROVIDE AN EMERGENCY BALLAST TEST SWITCH FOR RECESSED DOWNLIGHTS ON CEILING ADJACENT TO LUMINAIRE.
D. PROVIDE FLICKER FREE LED DRIVERS MEETING IEEE 1789.

SPECIFIC REMARKS:

- 1. SUSPEND FIXTURES SO THE BOTTOM OF FIXTURE ALIGNS WITH THE BOTTOM OF THE DATA TRAY.

Table with columns: TYPE, DESCRIPTION, LAMP (COLOR, LUMENS), BALLAST/DRIVER (TYPE, DIM LEVEL, VOLTAGE), APPARENT LOAD, MANUFACTURER, CATALOG SERIES, FINISH, MOUNTING, REMARKS. Includes rows for L1, L2, T1, and TIE.

LIGHTING CONTROL MATRIX

COMMON NOTES:

- A. NOT ALL SPACE NAMES ARE LISTED FOR EACH LIGHTING CONTROL TYPE. REFER TO PLANS FOR ALL SPACES TO BE CONTROLLED.
B. SPACES MAY CONTAIN MULTIPLE ZONES OF CONTROL. REFER TO PLANS FOR QUANTITY OF ZONES, SWITCHES, ETC.
C. PROVIDE THE QUANTITY OF SENSORS AS REQUIRED FOR FULL COVERAGE OF THE SPACE. DEVICES SHOWN ON PLAN ARE FOR DESIGN INTENT ONLY AND DO NOT NECESSARILY REFLECT THE EXACT QUANTITY REQUIRED FOR FULL COVERAGE.
D. WHERE A SINGLE SWITCH/DIMMER IS DENOTED WITH MULTIPLE SWITCH LEGS, DESIGN INTENT IS A SINGLE-GANG DEVICE WITH MULTIPLE-MODE CONTROL.

SPECIFIC REMARKS:

- 1. THE LIGHTING INTO EXISTING BUILDING LIGHTING CONTROLS.

KEY:

- M = MANUAL (SWITCH), A = AUTOMATIC (SENSOR), T = TIME SCHEDULE, P = EXTERIOR PHOTOCELL, #% = CONTROL TO % LIGHT LEVEL
0-10V DIMMING, ELV DIMMING, STEP DIMMING, DMX CONTROL
DT = DUAL TECHNOLOGY, PIR = PASSIVE INFRARED, CLG = CEILING MOUNT, WALL = WALL CORNER MOUNT, SW = INTEGRAL TO WALL SWITCH
CALIBRATE BOTTOM LIMIT OF DAYLIGHT SENSOR TO DENOTED FOOTCANDLE LEVEL AT HEIGHT LISTED
AV = ALLOW OVERRIDE BY AV SYSTEM, BAS = COMMUNICATE OCCUPIED/UNOCCUPIED STATE TO BAS, VAV = TIE SENSOR RELAY DIRECTLY TO VAV BOX IN ROOM NETWORK
X = PROVIDE AUTOMATIC LOAD CONTROL RELAYS (ALCR) FOR LUMINAIRES ON EMERGENCY CIRCUIT, PROVIDE TEST SWITCH IF NOT INTEGRAL TO RELAY

Table with columns: TYPE, SPACE, ON, OFF, CONTROL, OCCUPANCY / VACANCY SENSOR (TECH, MOUNT, DELAY (MIN)), DAYLIGHT SENSOR (TARGET LEVEL (FC), MEASURED HEIGHT (IN)), RCPD CONTROL, INTERFACE, NETWORK, EMERGENCY, REMARKS. Includes rows for LC1, LC2, LC10, LC13.

MECHANICAL EQUIPMENT SCHEDULE

COMMON NOTES:

- A. PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF EQUIPMENT.
B. PRIOR TO WORK, VERIFY EXACT LOCATION FOR EACH PIECE OF EQUIPMENT.
C. COORDINATE AND PROVIDE ALL FIELD CONNECTIONS AS REQUIRED.
D. COORDINATE 120V POWER CONNECTIONS TO DAMPERS AND OTHER CONTROL CIRCUITS. GROUP EQUIPMENT CONTROL CIRCUITS SUCH THAT FAILURE OF ONE CONTROL CIRCUIT DOES NOT AFFECT OPERATION OF OTHER EQUIPMENT. FOR EXAMPLE, DO NOT CONNECT A DAMPER ASSOCIATED WITH ONE AIR HANDLING UNIT TO THE SAME BRANCH CIRCUIT AS DAMPERS ASSOCIATED WITH A DIFFERENT AIR HANDLING UNIT.
E. FEEDERS, BREAKERS, DISCONNECTS, AND FUSING APPLIES TO FIELD-INSTALLED AND/OR FACTORY-INSTALLED EQUIPMENT.
F. COORDINATE LOCATION OF VFD(S) AND WORKING SPACE CLEARANCES. IF INSTALLED REMOTE FROM EQUIPMENT, PROVIDE CIRCUIT CONNECTION FROM VFD TO MOTOR(S).
G. WHERE MULTIPLE MOTORS ARE SERVED BY A SINGLE VFD, COORDINATE FIELD-WIRING REQUIREMENTS WITH EQUIPMENT VENDOR.

SPECIFIC REMARKS:

- 1. ROOF TOP UNIT AND POWERED EXHAUST FAN NUMBERED THE SAME SERVICED BY SAME BRANCH CIRCUIT.
2. POWERED EXHAUST FAN SECTION PROVIDED WITH MANUFACTURER FURNISHED VFD AND FUSED DISCONNECT.

Table with columns: KEY, #, ITEM, HP, FLA, LOAD, EQ LOAD (VA), VOLTAGE, FEEDERS (WIRE, GROUND, CONDUIT), BREAKER, DISCONNECT, FUSE, REMARKS. Lists various mechanical equipment items like cabinet unit heaters, exhaust fans, and roof top units.

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Project: TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School 701 Morningside Dr Twin Falls, ID 83301

Sheet: ELECTRICAL SCHEDULES

Professional Engineer seal for Kyle E. Olson, License No. 17703, State of Idaho, Electrical. Includes a 'Revisions' table with one entry.

100% CD

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

Sheet No: E0.02

FAULT CURRENT CALCULATIONS (UTILIZES THE BUSSEMAN CALCULATION METHOD AND TABLES)
CONTRACTOR IS RESPONSIBLE FOR ACTUAL FEEDER DISTANCES AND FIELD CONDITIONS IN PROJECT AND SCORE

Description	Voltage (V)	Length (FT)	# of Branches	Conductor Size	Available Fault Current (SCA)
At Utility Co	208				77,100
TO MCB	208	3	5	2245L	64,713
TO MDP	208	3	5	2245L	55,873
TO HVAC 1	208	3	3	18176	56,537
TO HVAC 2	208	3	3	18176	56,537
TO HVAC 3	208	3	3	18176	56,537
TO M1	208	3	1	12843	28,097
TO M2	208	3	1	12843	30,909
TO H1	208	3	1	12843	7,920
TO H2	208	3	1	12843	16,263
TO H3	208	3	1	12843	12,357
TO H4	208	3	1	12843	9,085

FEEDER SCHEDULE

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

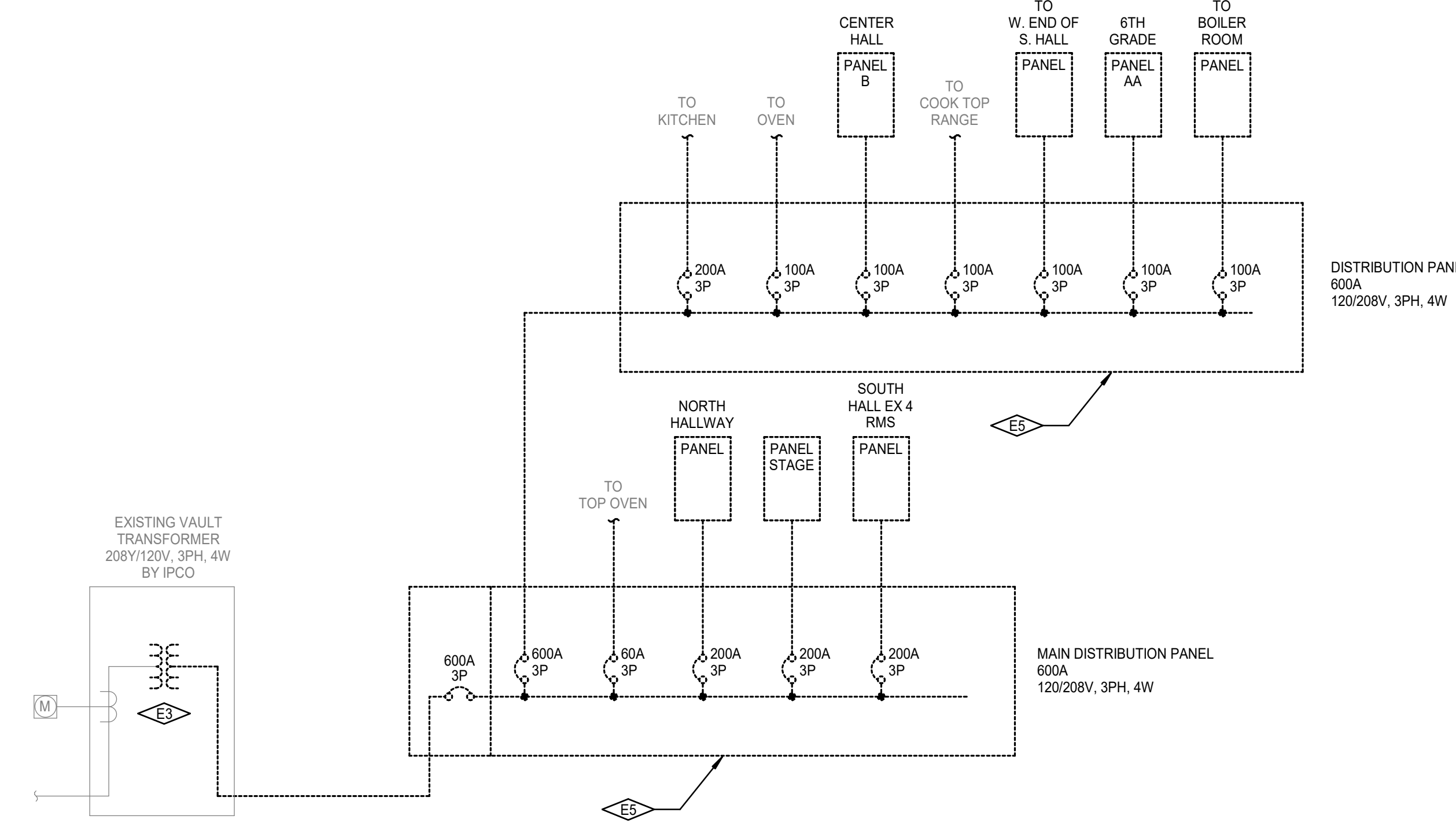
KEY	CONDUCTORS	C"
40.4G	4 # 4, 1 # 10 G	1-1/4
100.4G	4 # 3/0, 1 # 8 G	1-1/2
200.4G	4 # 2/0, 1 # 6 G	2-1/2
600.4G	4 # 250, 1 # 4 G	3
1600.4	2 [4 # 350, 1 # 1 G] 5 [4 # 600 AL]	3-1/2
1800.4G	5 [4 # 600 AL, 1 # 350 AL G]	3-1/2

MORNINGSIDE LOAD SUMMARY - 600A SWBD

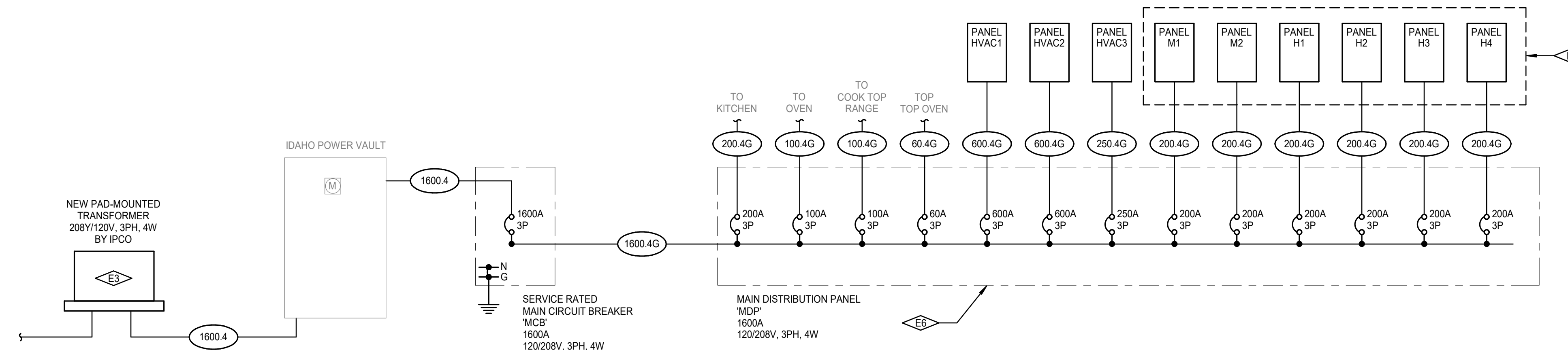
MAIN SWITCHBOARD RATING	600 A
EXISTING PEAK DEMAND	185 kW
EXISTING PEAK DEMAND (208V 3PH)	292 A
NEC CORRECTED PEAK DEMAND	~ 125%
NEC CORRECTED PEAK DEMAND LOAD	365 A
LOAD REMOVED	100 A
NEW LOAD ADDED	900 A
NEW TOTAL SWBD LOAD	1255 A

KEYNOTES

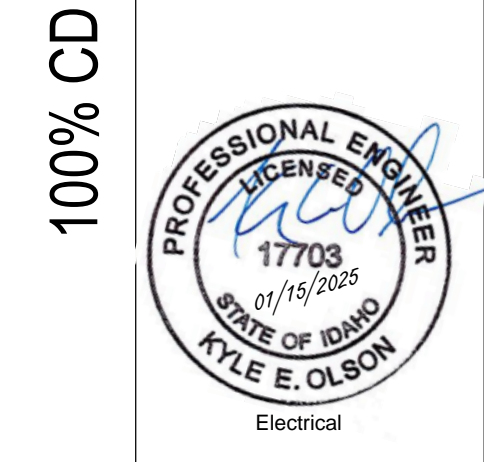
E3	EXISTING UTILITY TRANSFORMER TO BE REPLACED BY UTILITY. COORDINATE WITH UTILITY FOR ALL WORK REQUIRED.
E5	SERVICE ENTRANCE SWITCHBOARD AND DISTRIBUTION TO BE REMOVED AND REPLACED. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.
E6	PROVIDE NEW SWITCHBOARD. BACKFEED ALL EXISTING TO REMAIN EQUIPMENT FROM NEW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



ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
SCALE: 1/8" = 1'-0"



ELECTRICAL ONE-LINE DIAGRAM - NEW
SCALE: 1/8" = 1'-0"



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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

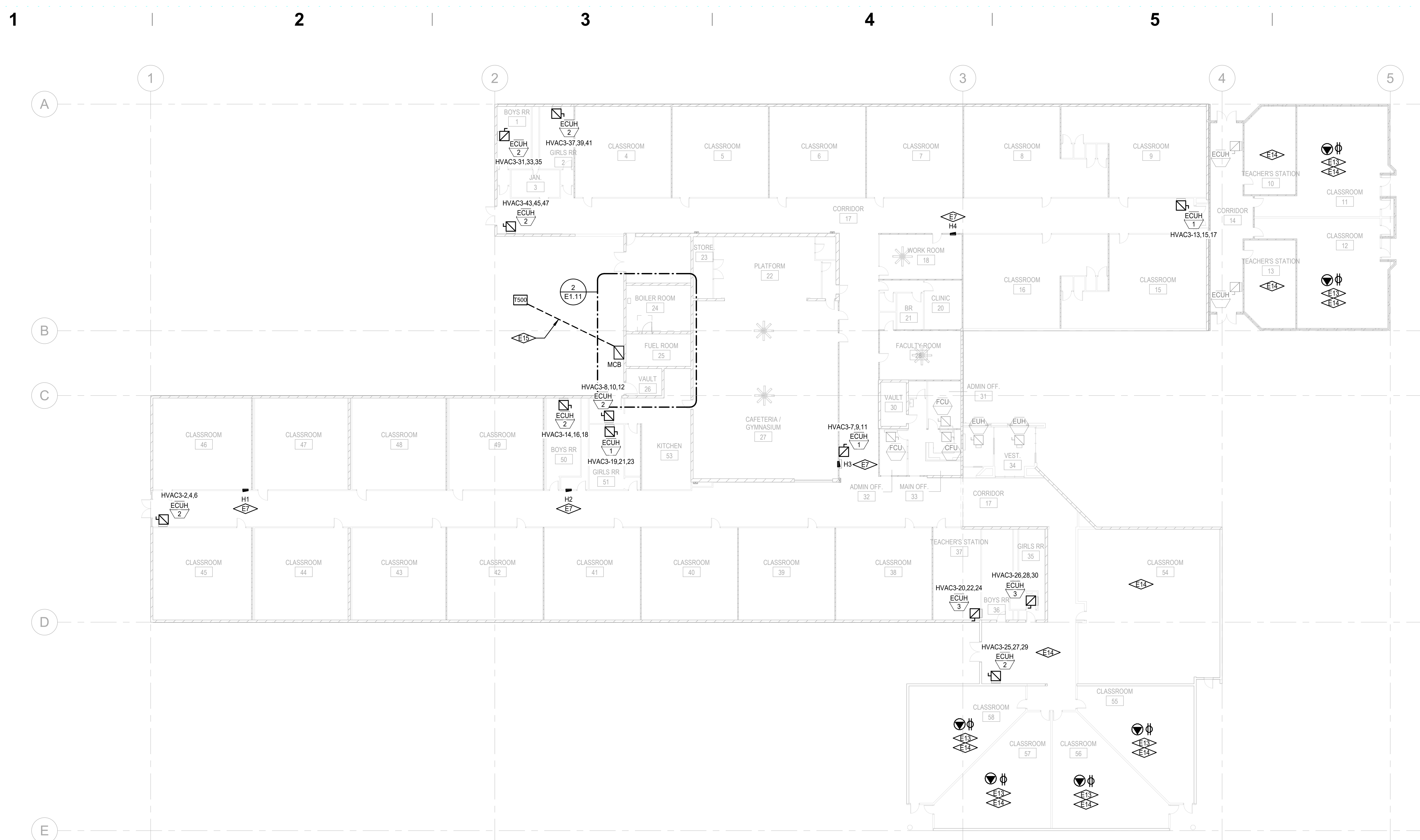
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ELECTRICAL ONE-LINE DIAGRAM

Revisions: △

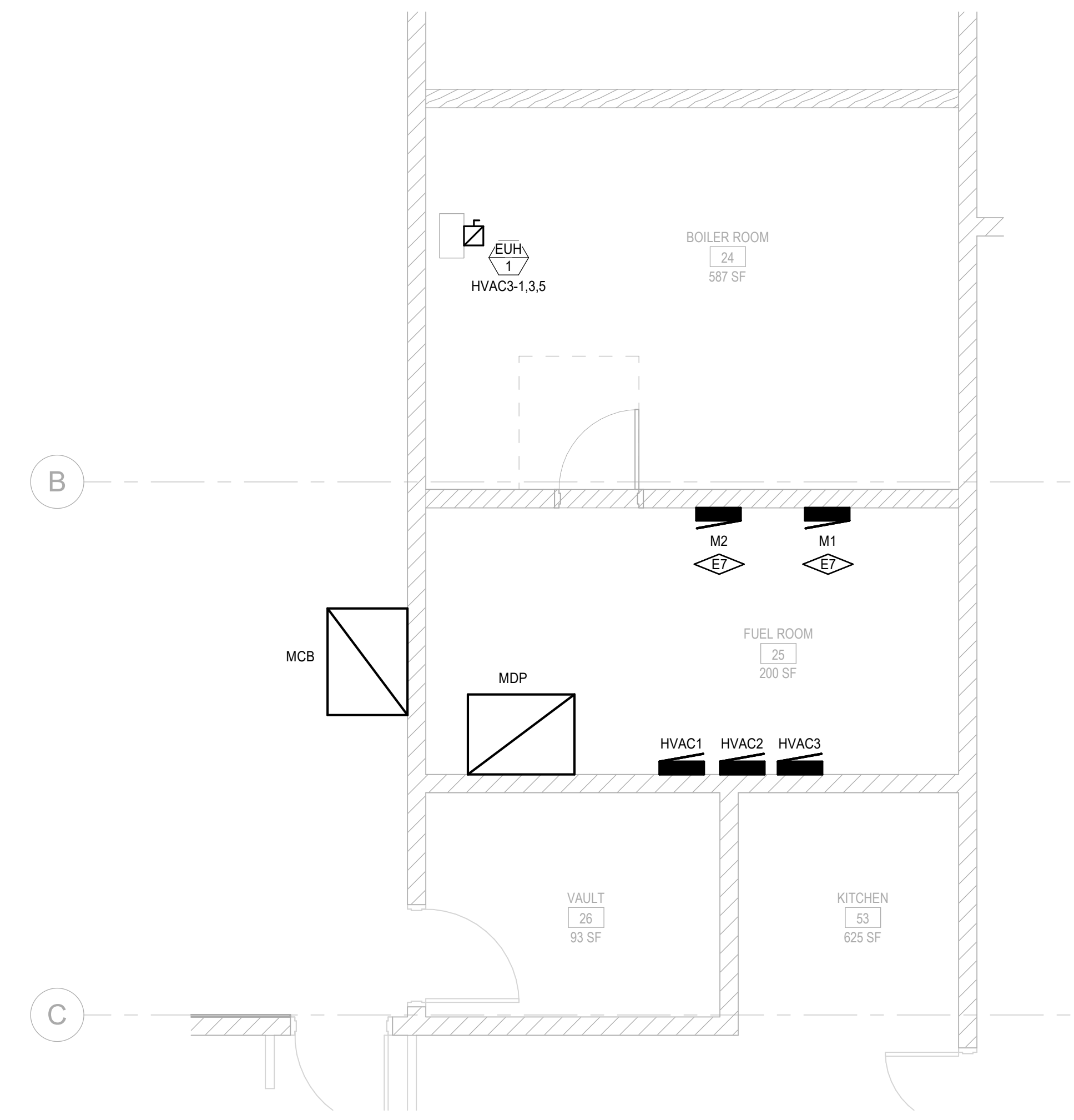
No.	Description

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

Sheet No: **E0.11**



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



ENLARGED ELECTRICAL ROOM POWER PLAN
SCALE: 1/4" = 1'-0"

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 ALARMS AND LOW VOLTAGE DEVICES REMOVED THROUGH DEMO PHASE.
E15	PROVIDE CONDUIT AND CONDUCTORS SIZED AS NOTED ON ONE-LINE FOR TRANSFORMER SECONDARY IN TRENCH AT 30'. ALL TERMINATIONS AND WORK PERFORMED AT THE TRANSFORMER TO BE COORDINATED WITH UTILITY PRIOR TO COMMENCEMENT OF WORK.

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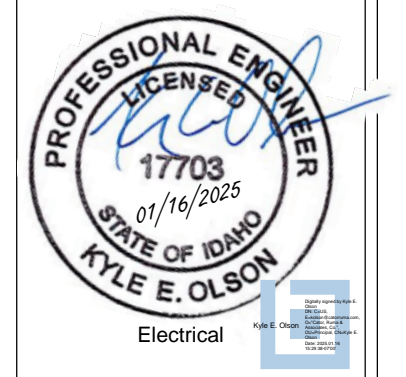
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
LEVEL 1 POWER PLAN

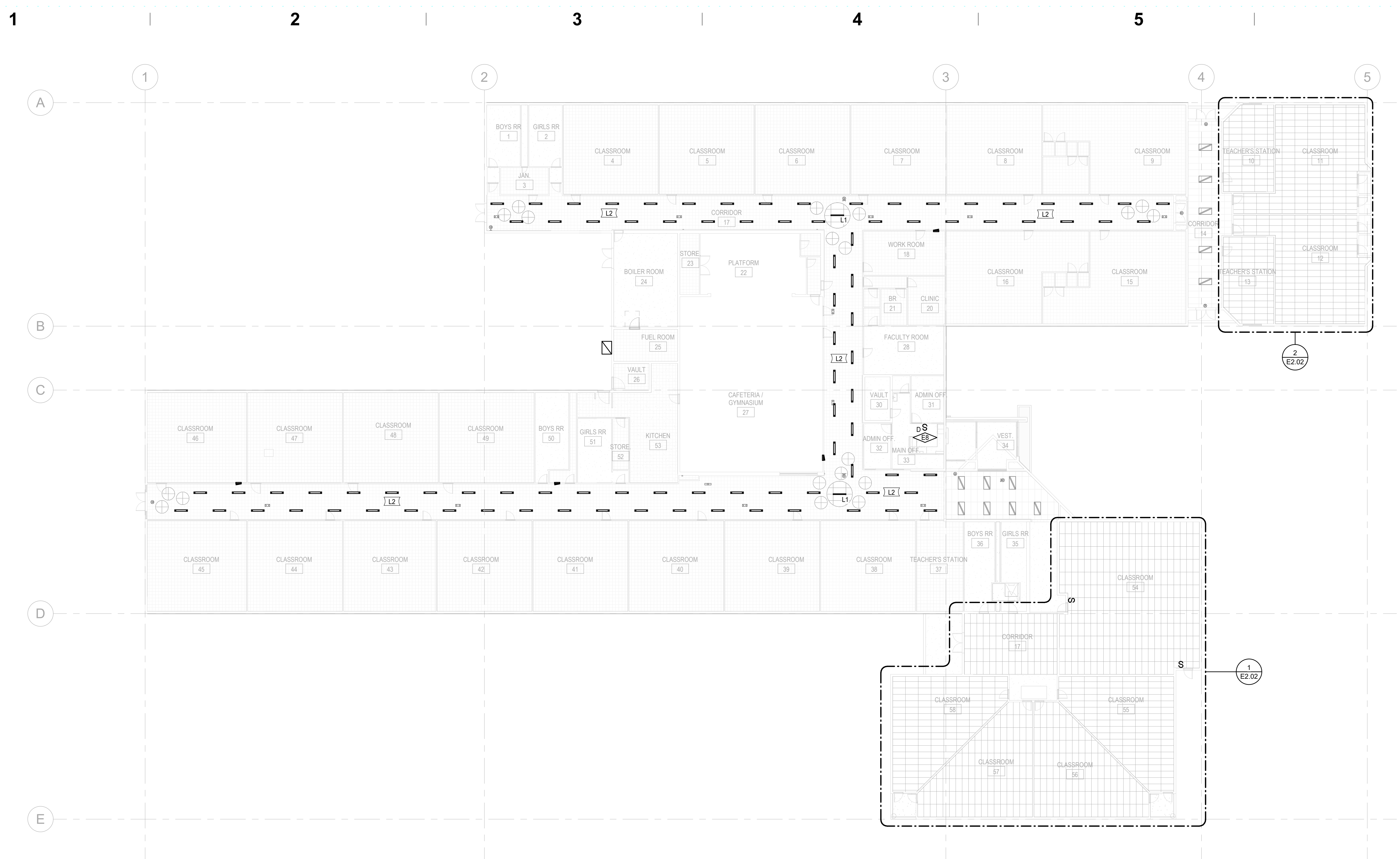
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Revisions: △

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

Sheet No: **E1.11**



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

KEYNOTES

E8 THE 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 OBTURATE 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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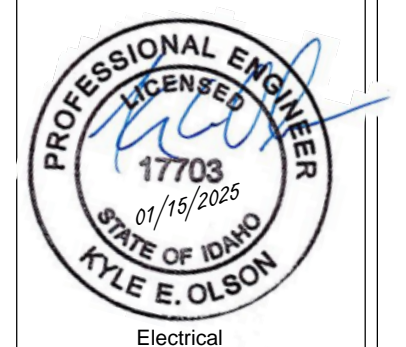
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Sheet:
LEVEL 1 LIGHTING PLAN

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Revisions: △

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

Sheet No:
E2.01

1

2

3

4

5

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C

D

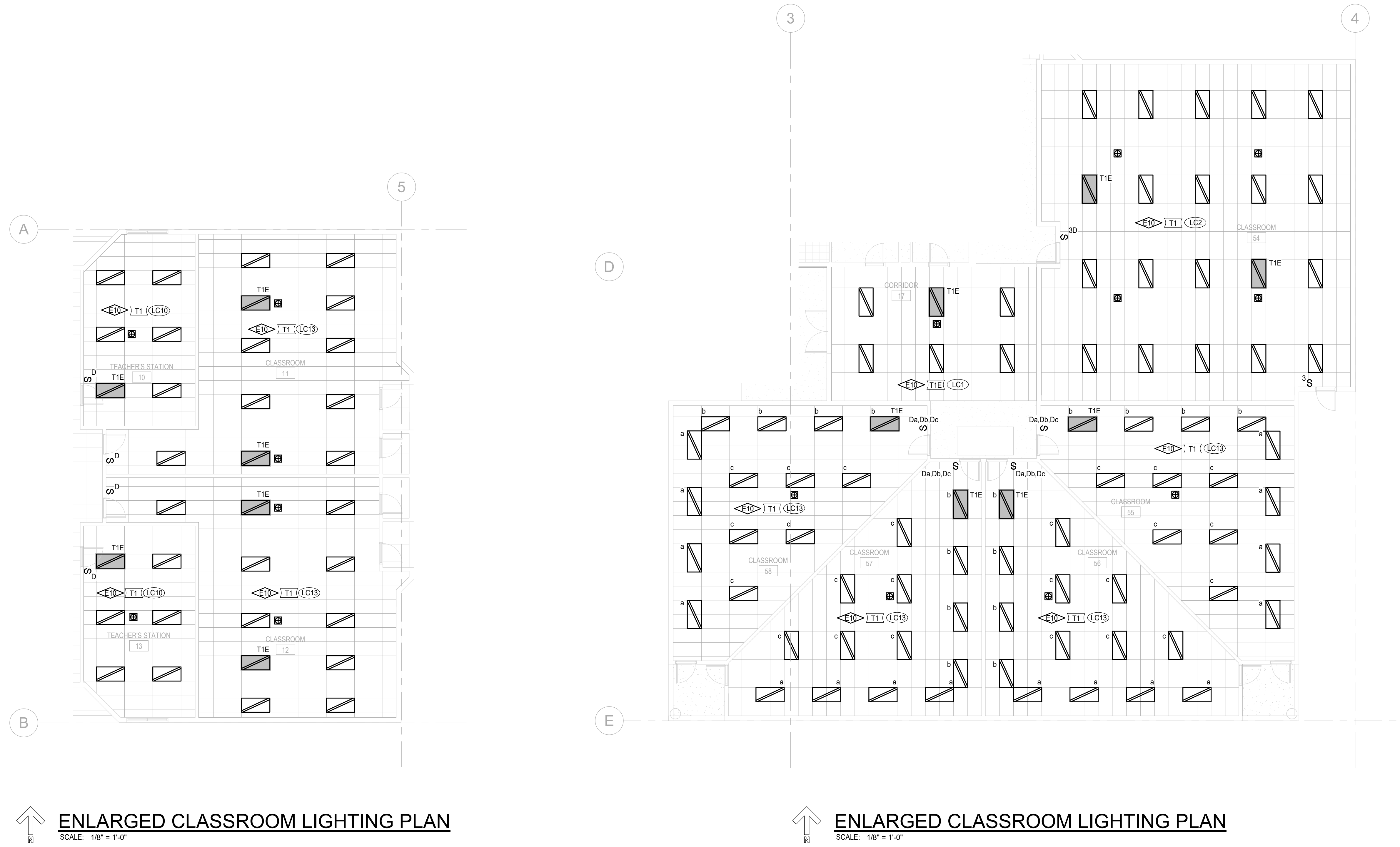
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KEYNOTES

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.



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

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

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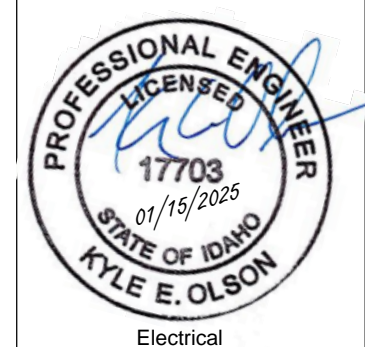
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Project:
TFSD DISTRICT WIDE HVAC REPLACEMENT

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Sheet:
ENLARGED LIGHTING PLANS

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Revisions: △

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

Sheet No:
E2.02

A

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D

E

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
PANEL M1	Spare	0 VA	0 VA	0 VA	
PANEL M2	Spare: R	0 VA	1080 VA	1080 VA	
PANEL H1	Spare	0 VA	0 VA	0 VA	
PANEL H2	Spare	0 VA	0 VA	0 VA	
PANEL H3	Spare	0 VA	0 VA	0 VA	
PANEL H4	Spare	0 VA	0 VA	0 VA	
HVAC1	Spare: M	53560 VA	53560 VA	53560 VA	
HVAC2	Spare: M	53031 VA	53031 VA	53031 VA	
HVAC3	Spare: M	19782 VA	19782 VA	19782 VA	
KITCHEN	--	0 VA	0 VA	0 VA	
OVEN	--	0 VA	0 VA	0 VA	
COOK TOP RANGE	--	0 VA	0 VA	0 VA	
TOP OVEN	--	0 VA	0 VA	0 VA	

126373 VA	127453 VA	127453 VA
1053 A	1063 A	1063 A
1	0	1
% A-B	% B-C	% C-A

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

Load Type	Connected Load	Demand Factor	Demand Load	Switchboard Totals
L Lighting	0 VA	0.00%	0 VA	Power Factor: 1
R Receptacle	2160 VA	100.00%	2160 VA	
M Motor	37918 VA	100.71%	381820 VA	Total Connected Load: 381278 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 1058 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 383980 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 1066 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC1

Location: **Volts: 120/208 Wye**
Supply From: MDP **Phases: 3**
Mounting: Surface **Wires: 4** **A.I.C. Rating: 65 KAIC**
Enclosure: Type 1 **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	RTU-1	M	35 A	3	2690 VA, 3531 VA	2690 VA, 3531 VA			3	45 A	M	RTU-13	2	
3								2690 VA, 3531 VA					4	
5													6	
7													8	
9	RTU-2	M	45 A	3	3531 VA, 3531 VA	3531 VA, 3531 VA			3	45 A	M	RTU-14	10	
11								3531 VA, 3531 VA					12	
13													14	
15	RTU-3	M	45 A	3	3531 VA, 3531 VA	3531 VA, 3531 VA			3	45 A	M	RTU-15	16	
17													18	
19													20	
21	RTU-4	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-21	22	
23													24	
25													26	
27	RTU-9	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-24	28	
29													30	
31													32	
33	RTU-10	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-25	34	
35													36	
37													38	
39	RTU-11	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-26	40	
41													42	
43													44	
45	RTU-12	M	45 A	3	3531 VA, 0 VA	3531 VA, 0 VA			3	50 A	--	SPARE	46	
47													48	
49													50	
51	SPARE	--	45 A	3	0 VA, 0 VA	0 VA, 0 VA			3	50 A	--	SPARE	52	
53													54	
55													56	
57	SPARE	--	45 A	3	0 VA, 0 VA	0 VA, 0 VA			3	50 A	--	SPARE	58	
59													60	

Total Load:	53560 VA	53560 VA	53560 VA
Total Amps:	446 A	446 A	446 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	160679 VA	101.68%	163381 VA	Total Connected Load: 160679 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 446 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 163381 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 454 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC2

Location: **Volts: 120/208 Wye**
Supply From: MDP **Phases: 3**
Mounting: Surface **Wires: 4** **A.I.C. Rating: 65 KAIC**
Enclosure: Type 1 **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	RTU-5	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-20	2	
3													4	
5													6	
7													8	
9	RTU-6	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-23	10	
11													12	
13													14	
15	RTU-7	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-27	16	
17													18	
19													20	
21	RTU-8	M	45 A	3	3531 VA, 3891 VA	3531 VA, 3891 VA			3	50 A	M	RTU-28	22	
23													24	
25													26	
27	RTU-16	M	50 A	3	3891 VA, 3891 VA	3891 VA, 3891 VA			3	50 A	M	RTU-29	28	
29													30	
31													32	
33	RTU-17	M	50 A	3	3891 VA, 3891 VA	3891 VA, 3891 VA			3	50 A	M	RTU-22	34	
35													36	
37													38	
39	RTU-18	M	50 A	3	3891 VA, 0 VA	3891 VA, 0 VA			3	45 A	--	SPARE	40	
41													42	
43													44	
45	RTU-19	M	50 A	3	3891 VA, 0 VA	3891 VA, 0 VA			3	45 A	--	SPARE	46	
47													48	
49													50	
51	SPARE	--	50 A	3	0 VA, 0 VA	0 VA, 0 VA			3	45 A	--	SPARE	52	
53													54	
55													56	
57	SPARE	--	50 A	3	0 VA, 0 VA	0 VA, 0 VA			3	45 A	--	SPARE	58	
59													60	

Total Load:	53031 VA	53031 VA	53031 VA
Total Amps:	442 A	442 A	442 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	159094 VA	101.70%	161796 VA	Total Connected Load: 159094 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 442 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 161796 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 449 A
O Other	0 VA	0.00%	0 VA	

General Notes:

Panel HVAC3

Location: **Volts: 120/208 Wye**
Supply From: MDP **Phases: 3**
Mounting: Surface **Wires: 4** **A.I.C. Rating: 65 KAIC**
Enclosure: Type 1 **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	EUH-1	M	20 A	3	1667 VA, 1000 VA	1667 VA, 1000 VA			3	20 A	M	ECUH-2	2	
3													4	
5													6	
7													8	
9	ECUH-1	M	20 A	3	667 VA, 1000 VA	667 VA, 1000 VA			3	20 A	M	ECUH-2	10	
11													12	
13													14	
15	ECUH-1	M	20 A	3	667 VA, 1000 VA	667 VA, 1000 VA			3	20 A	M	ECUH-2	16	
17													18	
19													20	
21	ECUH-1	M	20 A	3	667 VA, 667 VA	667 VA, 667 VA			3	20 A	M	ECUH-3	22	
23													24	
25													26	
27	ECUH-2	M	20 A	3	1000 VA, 667 VA	1000 VA, 667 VA			3	20 A	M	ECUH-3	28	
29													30	
31													32	
33	ECUH-2	M	20 A	3	1000 VA, 3891 VA	1000 VA, 3891 VA			3	50 A	M	RTU-31	34	
35													36	
37													38	
39	ECUH-2	M	20 A	3	1000 VA, 3891 VA	1000 VA, 3891 VA			3	50 A	M	RTU-30	40	
41													42	
43													44	
45	ECUH-2	M	20 A	3	1000 VA, 0 VA	1000 VA, 0 VA			3	20 A	--	SPARE	46	
47													48	
49													50	
51	SPARE	--	20 A	3	0 VA, 0 VA	0 VA, 0 VA			3	20 A	--	SPARE	52	
53													54	
55													56	
57	SPARE	--	20 A	3	0 VA, 0 VA	0 VA, 0 VA			3	20 A	--	SPARE	58	
59													60	

Total Load:	19782 VA	19782 VA	19782 VA
Total Amps:	165 A	165 A	165 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	59345 VA	104.55%	62047 VA	Total Connected Load: 59345 VA
C Continuous	0 VA	0.00%	0 VA	Total Connected Current: 165 A
G General	0 VA	0.00%	0 VA	
K Kitchen	0 VA	0.00%	0 VA	Total Demand Load: 62047 VA
E Existing	0 VA	0.00%	0 VA	Total Demand Current: 172 A
O Other	0 VA	0.00%	0 VA	

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A

Panel H3															
Location: MDP			Voltage: 120/208 Wye			A.I.C. Rating: 14 KAIC			Mains Type: MLO						
Supply From: MDP			Phase: 3			Bus Rating: 225 A			Mains Type: MLO						
Mounting: Recessed			Wire: 4			Bus Rating: 100 A			Mains Type: MLO						
Enclosure: Type 1															
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note	
1	L - ROOM 20	--	20 A	1	0 VA	0 VA			1	20 A	--	L - HALL	2		
3	L - ROOM 20	--	20 A	1			0 VA	0 VA	1	20 A	--	L - HALL	4		
5	L - ROOM 20	--	20 A	1				0 VA	1	20 A	--	L - HALL	6		
7	L - OFFICE	--	20 A	1	0 VA	0 VA			1	20 A	--	L - CENTER HALL	8		
9	FRIDGE	--	20 A	1			0 VA	0 VA	1	20 A	--	L - ROOM 19	10		
11	WATER HEATER	--	20 A	1				0 VA	0 VA	1	20 A	--	ORCHESTRA LIGHTS	12	
13	MICROWAVE	--	20 A	1	0 VA	0 VA			1	20 A	--	FIRE ALARM PANEL	14		
15	POP MACHINE	--	20 A	1			0 VA	0 VA	1	20 A	--	R - RM 19,20	16		
17	L - ROOM 19	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	18	
19	L - ROOM 19	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	20		
21	L - ROOM 19	--	20 A	1			0 VA	0 VA	2	20 A	--	HEATER OFFICE	22		
23	R - HALL/AUDITORIUM	--	20 A	1				0 VA	0 VA	2	20 A	--	HEATER OFFICE	24	
25	R - OFFICE, RM 19,20	--	20 A	1	0 VA	0 VA			2	20 A	--	HEATER SPECIAL SERVICES	26		
27	HEATER ORCHESTRA	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	28		
29	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	30	
31	POP MACHINE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	32		
33	LOUNGE/RESTROOM	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	34		
35	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	36	
37	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	38		
39	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	40		
41	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	42	
Total Load:						0 VA	0 VA	0 VA							
Total Amps:						0 A	0 A	0 A							
Phase Balance:						% A-B	% B-C	% C-A							
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 H2															
Location: MDP			Voltage: 120/208 Wye			A.I.C. Rating: 22 KAIC			Mains Type: MLO						
Supply From: MDP			Phase: 3			Bus Rating: 225 A			Mains Type: MLO						
Mounting: Recessed			Wire: 4			Bus Rating: 225 A			Mains Type: MLO						
Enclosure: Type 1															
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note	
1	L - ROOM 9	--	20 A	1	0 VA	0 VA			1	20 A	--	L - ROOM 18	2		
3	L - ROOM 9,18	--	20 A	1			0 VA	0 VA	1	20 A	--	L - ROOM 18	4		
5	L - ROOM 9	--	20 A	1				0 VA	0 VA	1	20 A	--	L - ROOM 18	6	
7	L - ROOM 10	--	20 A	1	0 VA	0 VA			1	20 A	--	L - ROOM 17	8		
9	L - ROOM 10	--	20 A	1			0 VA	0 VA	1	20 A	--	L - ROOM 17	10		
11	L - ROOM 10	--	20 A	1				0 VA	0 VA	1	20 A	--	L - ROOM 17	12	
13	L - ROOM 15	--	20 A	1	0 VA	0 VA			1	20 A	--	L - PRINCIPAL OFFICE	14		
15	L - ROOM 15	--	20 A	1			0 VA	0 VA	1	20 A	--	L - KITCHEN	16		
17	L - ROOM 15	--	20 A	1				0 VA	0 VA	1	20 A	--	L - KITCHEN EX FAN	18	
19	L - ROOM 16	--	20 A	1	0 VA	0 VA			1	20 A	--	HEATER RM 15,16,17,18	20		
21	L - ROOM 16	--	20 A	1			0 VA	0 VA	1	20 A	--	L - RESTROOM	22		
23	L - ROOM 16	--	20 A	1				0 VA	0 VA	1	20 A	--	CUSTODIAL CLOSET	24	
25	R - RM 9,10	--	20 A	1	0 VA	0 VA			1	20 A	--	RESTROOM FANS	26		
27	R - RM 15,16,17,18	--	20 A	1			0 VA	0 VA	1	20 A	--	HEATER RM 9,10	28		
29	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	30	
31	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	32		
33	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	34		
35	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	36	
37	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	38		
39	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	40		
41	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	42	
Total Load:						0 VA	0 VA	0 VA							
Total Amps:						0 A	0 A	0 A							
Phase Balance:						% A-B	% B-C	% C-A							
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 M2															
Location: MDP			Voltage: 120/208 Wye			A.I.C. Rating: 42 KAIC			Mains Type: MLO						
Supply From: MDP			Phase: 3			Bus Rating: 225 A			Mains Type: MLO						
Mounting: Surface			Wire: 4			Bus Rating: 225 A			Mains Type: MLO						
Enclosure: Type 1						MCB Rating: 1 A			Mains Type: MLO						
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	--	R - ROOF	2		
3	SPARE	--	20 A	1			0 VA	1080 VA	1	20 A	--	R - ROOF	4		
5	SPARE	--	20 A	1				0 VA	1080 VA	1	20 A	--	R - ROOF	6	
7	R - ROOF	--	20 A	1	0 VA	0 VA			3	20 A	--	SPARE	8		
9	SPARE	--	20 A	1			0 VA	0 VA	3	20 A	--	SPARE	10		
11	SPARE	--	20 A	1				0 VA	0 VA	3	20 A	--	SPARE	12	
13	R - ROOF	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	14		
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16		
17	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	18	
19	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	20		
21	L - EXTERIOR	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	22		
23	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	24	
25	SPARE	--	60 A	2	0 VA	0 VA			1	20 A	--	SPARE	26		
27	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	28		
29	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	30		
31	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	32		
33	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	34		
35	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	36	
37	SPACE	--	--	1	--	--			1	--	--	SPACE	38		
39	SPACE	--	--	1	--	--			1	--	--	SPACE	40		
41	SPACE	--	--	1	--	--			1	--	--	SPACE	42		
Total Load:						0 VA	1080 VA	1080 VA							
Total Amps:						0 A	10 A	10 A							
Phase Balance:						% A-B	0 % B-C	% C-A							
Panel Totals															
Power Factor: 1															
Total Connected Load: 2160 VA															
Total Connected Current: 6 A															
Total Demand Load: 2160 VA															
Total Demand Current: 6 A															
General Notes:															

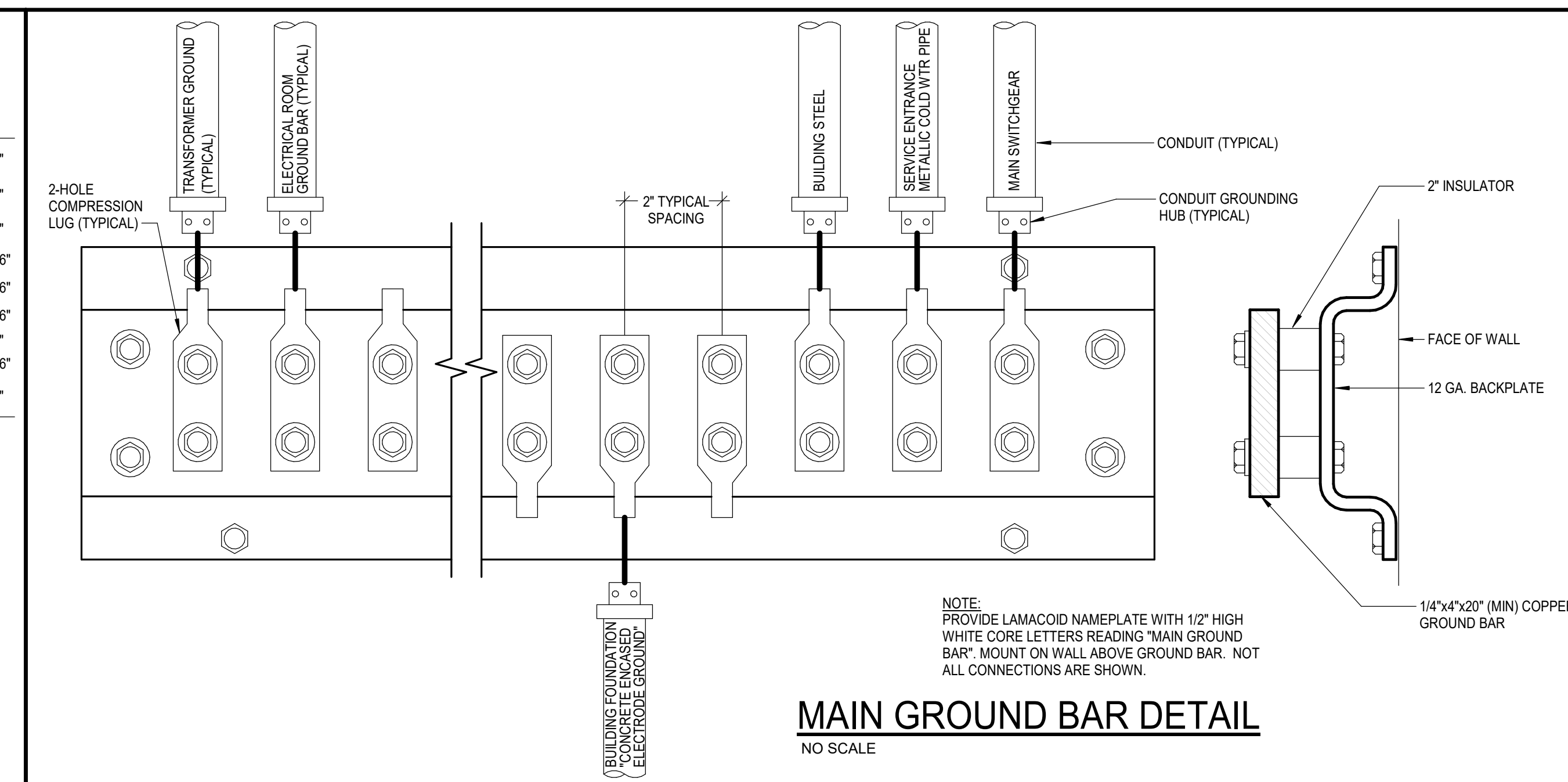
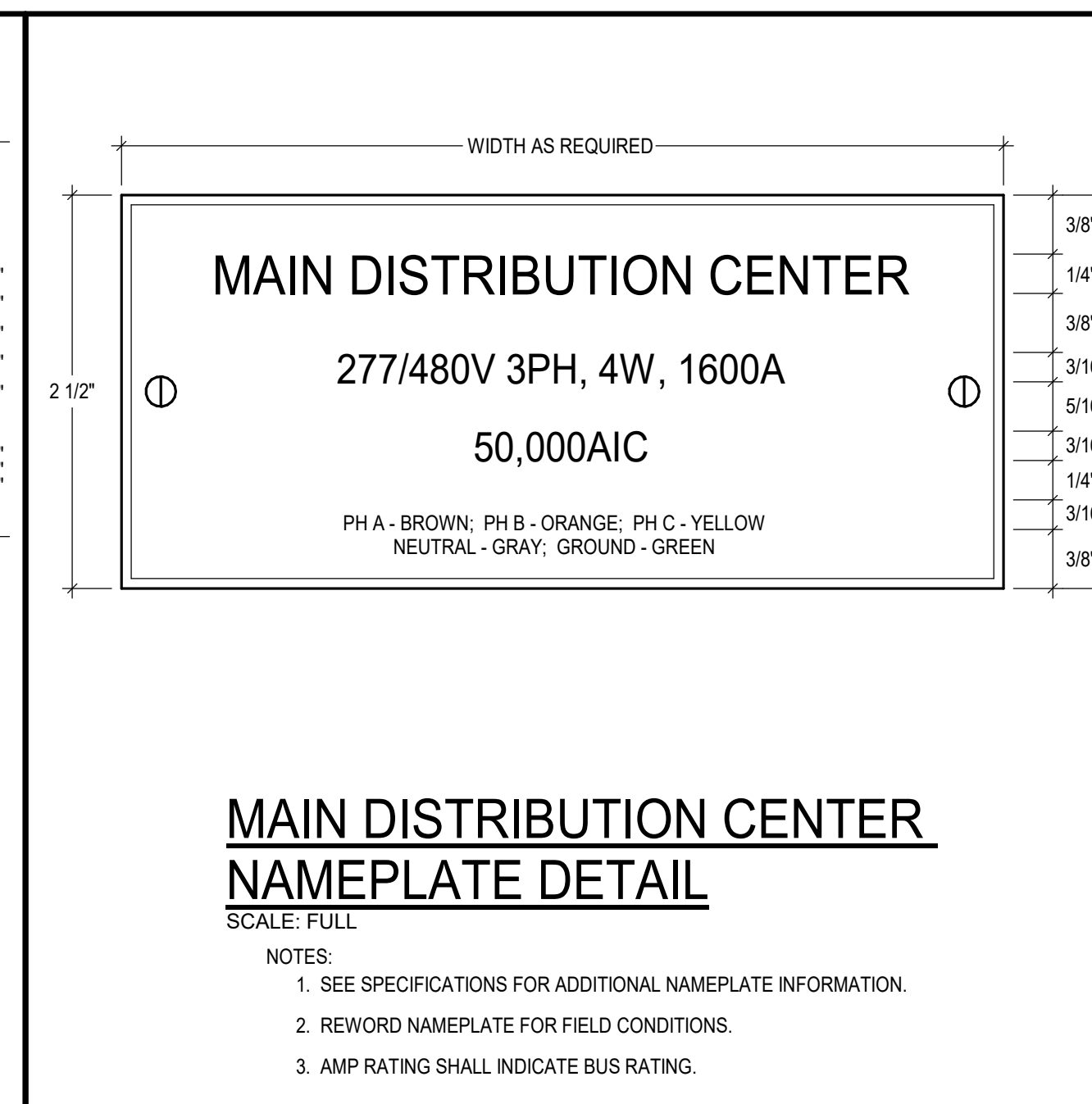
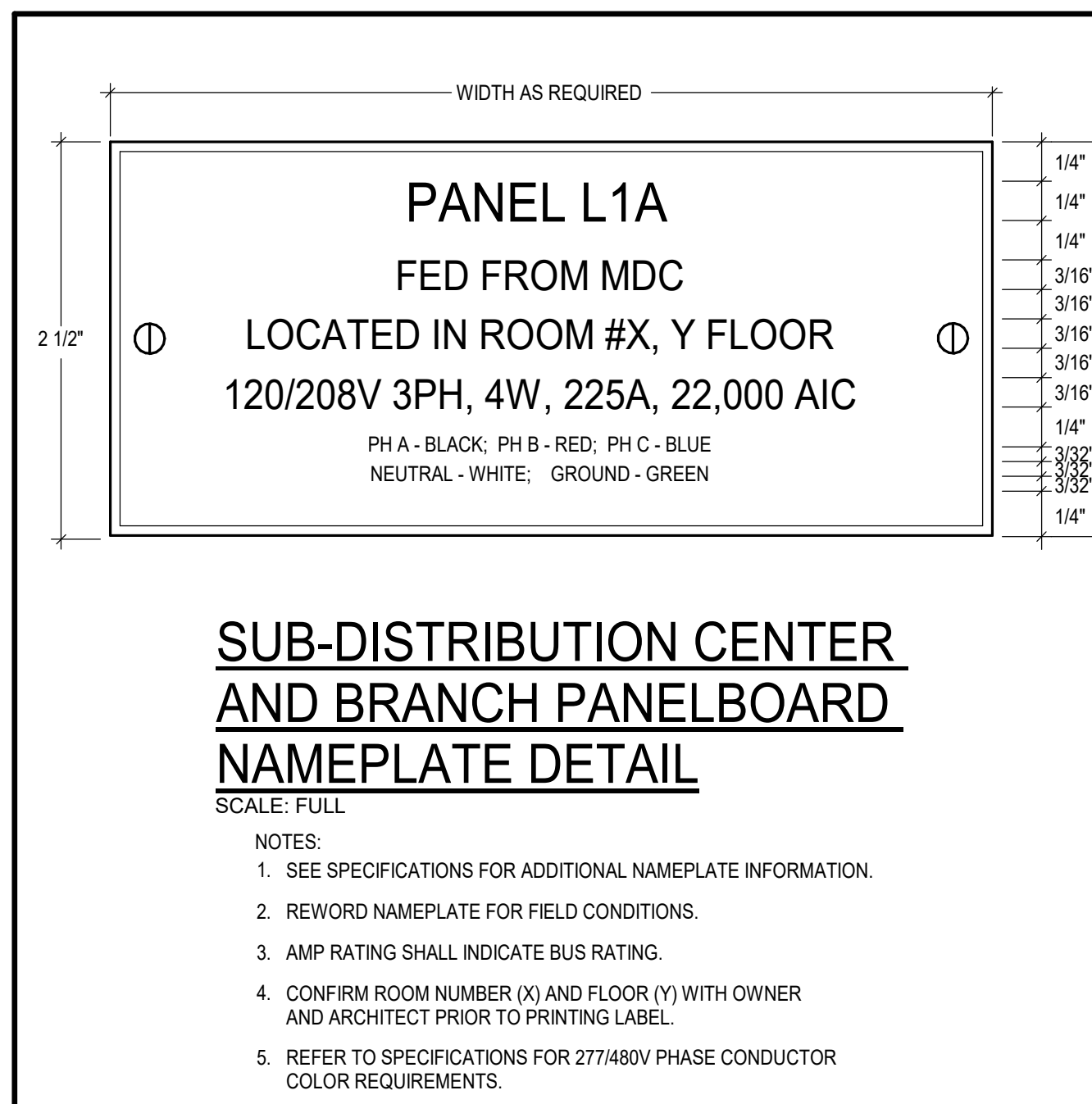
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Panel M1															
Location: MDP			Voltage: 120/208 Wye			A.I.C. Rating: 42 KAIC			Mains Type: MLO						
Supply From: MDP			Phase: 3			Bus Rating: 225 A			Mains Type: MLO						
Mounting: Surface			Wire: 4			Bus Rating: 225 A			Mains Type: MLO						
Enclosure: Type 1															
Circuit Notes:															
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note	
1	AC POWER	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	2		
3	HOT CIRCUITING	--	20 A	1			0 VA	0 VA	1	20 A	--	L - SOUTH ROOF	4		
5	COMPRESSOR	--	20 A	1				0 VA	0 VA	1	20 A	--	L - NORTH ROOF	6	
7	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	8		
9	L - CHIMNEY LIGHT	--	20 A	1			0 VA	0 VA	1	20 A	--	KITCHEN PLUG STAND	10		
11	KITCHEN PLUG STAND	--	20 A	1				0 VA	0 VA	1	20 A	--	KITCHEN PLUG STAND	12	
13	KITCHEN PLUG STAND	--	20 A	1	0 VA	0 VA			1	20 A	--	R - KITCHEN	14		
15	COOL AUGER	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16		
17	L - BOILER ROOM	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	18	
19	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	20		
21	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	22		
23	PROOFER	--	20 A	2				0 VA	0 VA	2	20 A	--	SPARE	24	
25	SPARE	--	20 A	1			0 VA	0 VA	2	20 A	--	SPARE	26		
27	BOILER CONTROLS	--	20 A	2				0 VA	0 VA	2	20 A	--	DRYER	28	
29	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	30		
31	FUEL PUMP	--	20 A	2			0 VA	0 VA	1	20 A	--	SPARE	32		
33	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	34	
35	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	36	
37	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	38		
39	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	40		
41	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	42	
Total Load:						0 VA	0 VA	0 VA							
Total Amps:						0 A	0 A	0 A							
Phase Balance:						% A-B	% B-C	% C-A							
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:															

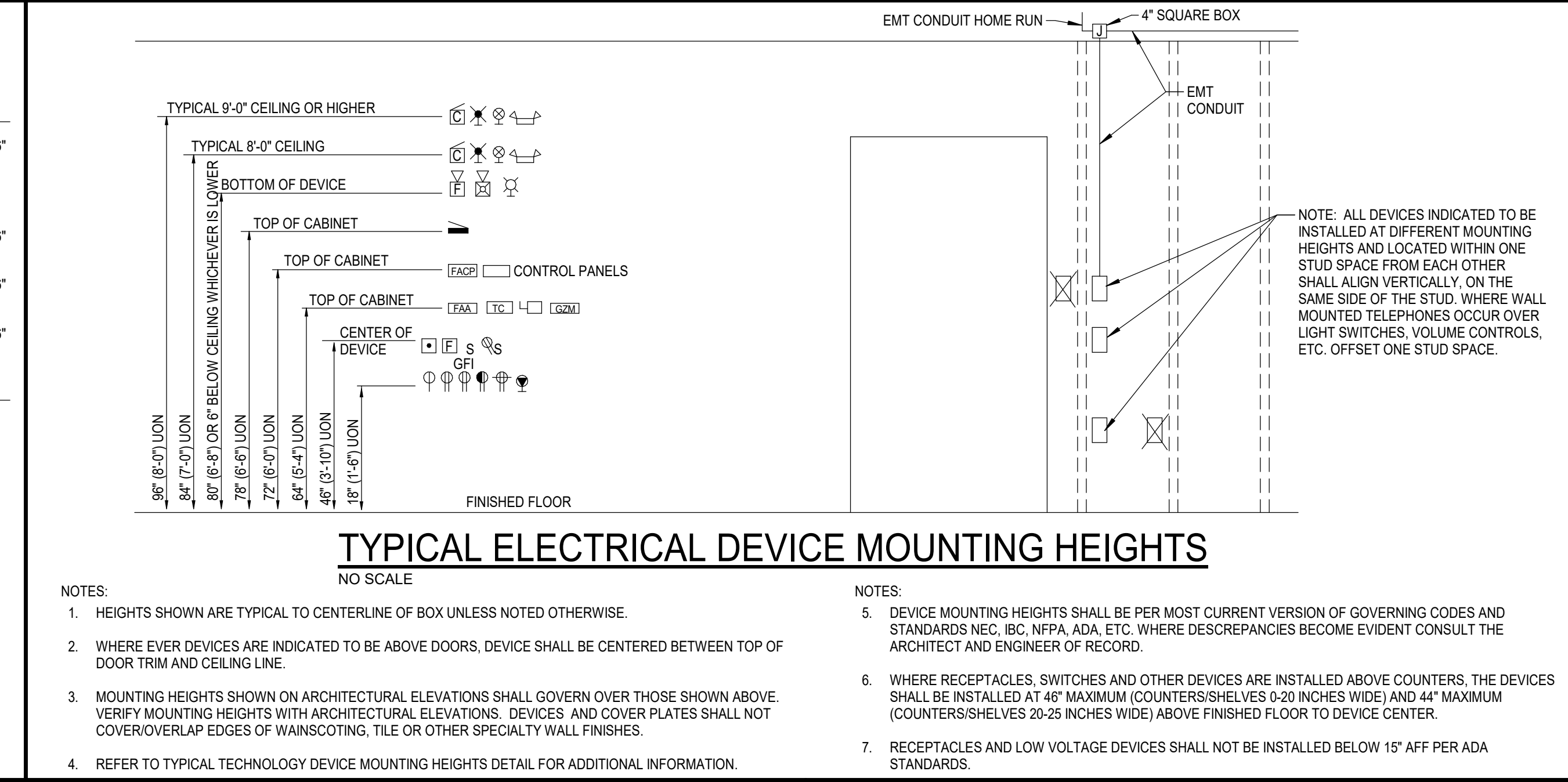
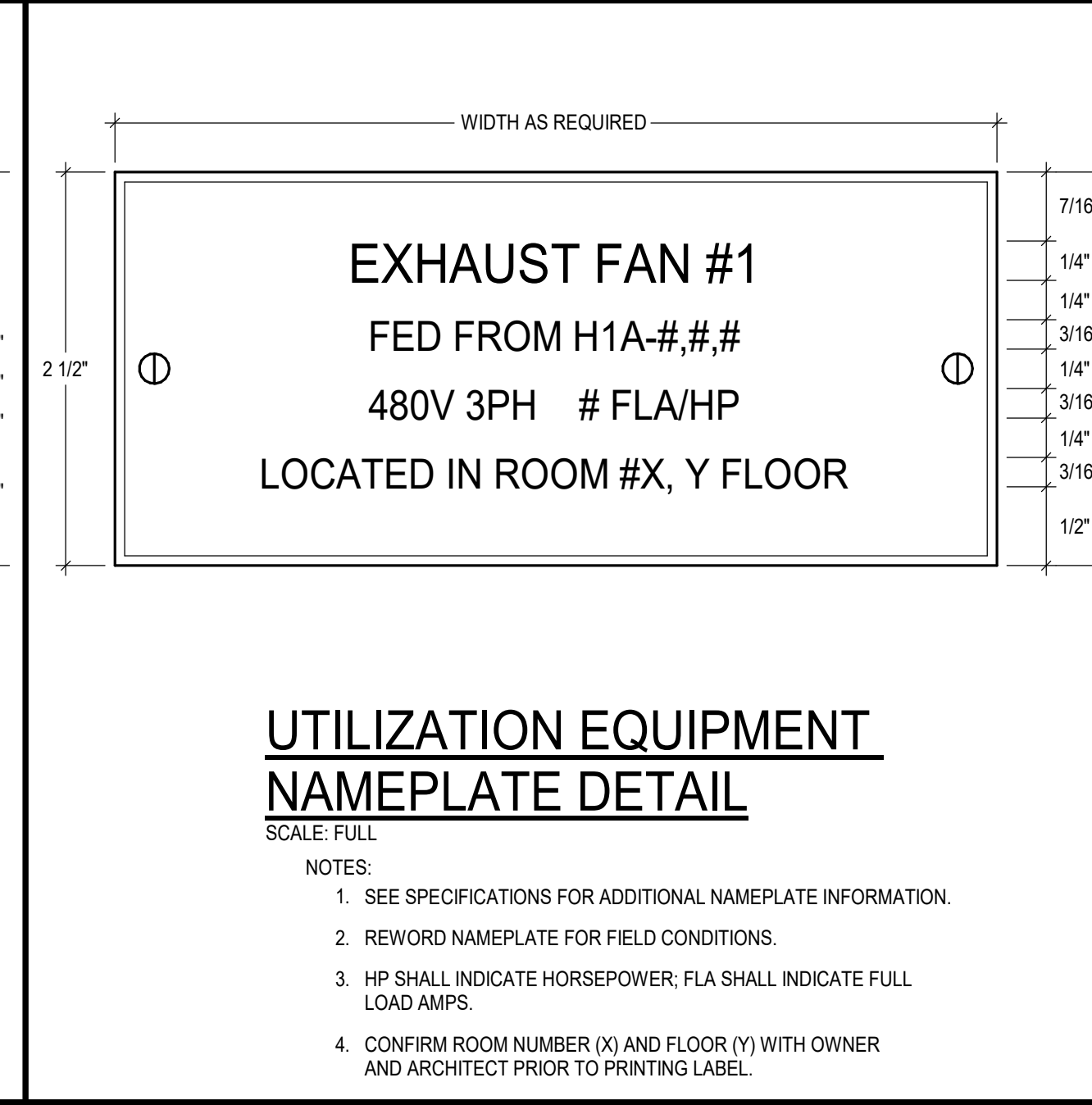
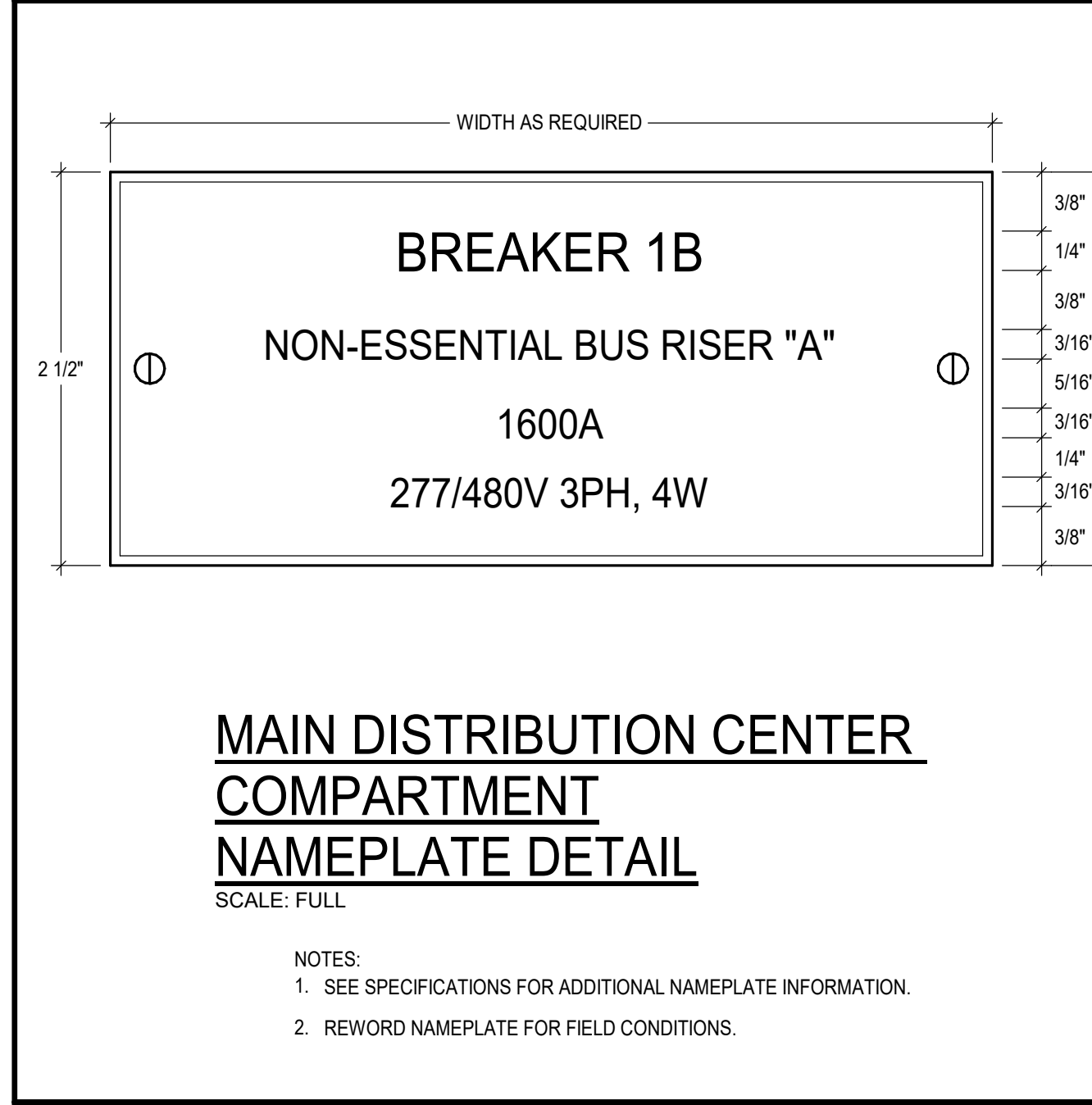
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Panel H1														
Location: MDP			Voltage: 120/208 Wye			A.I.C. Rating: 10 KAIC			Mains Type: MLO					
Supply From: MDP			Phase: 3			Bus Rating: 100 A			Mains Type: MLO					
Mounting: Recessed			Wire: 4			Bus Rating: 100 A			Mains Type: MLO					
Enclosure: Type 1														
Circuit Notes:														
Note	Circ...	Load	Type	Trip	Po...	A	B	C	Po...	Trip	Type	Load	Circ...	Note
1	HEATER RM 11,12	--	20 A	1	0 VA	0 VA			1	20 A	--	L - ROOM 12	2	
3	L - ROOM 12	--	20 A	1			0 VA	0 VA	1	20 A	--	L - ROOM 12	4	
5	L - ROOM 11	--	20 A	1				0 VA						

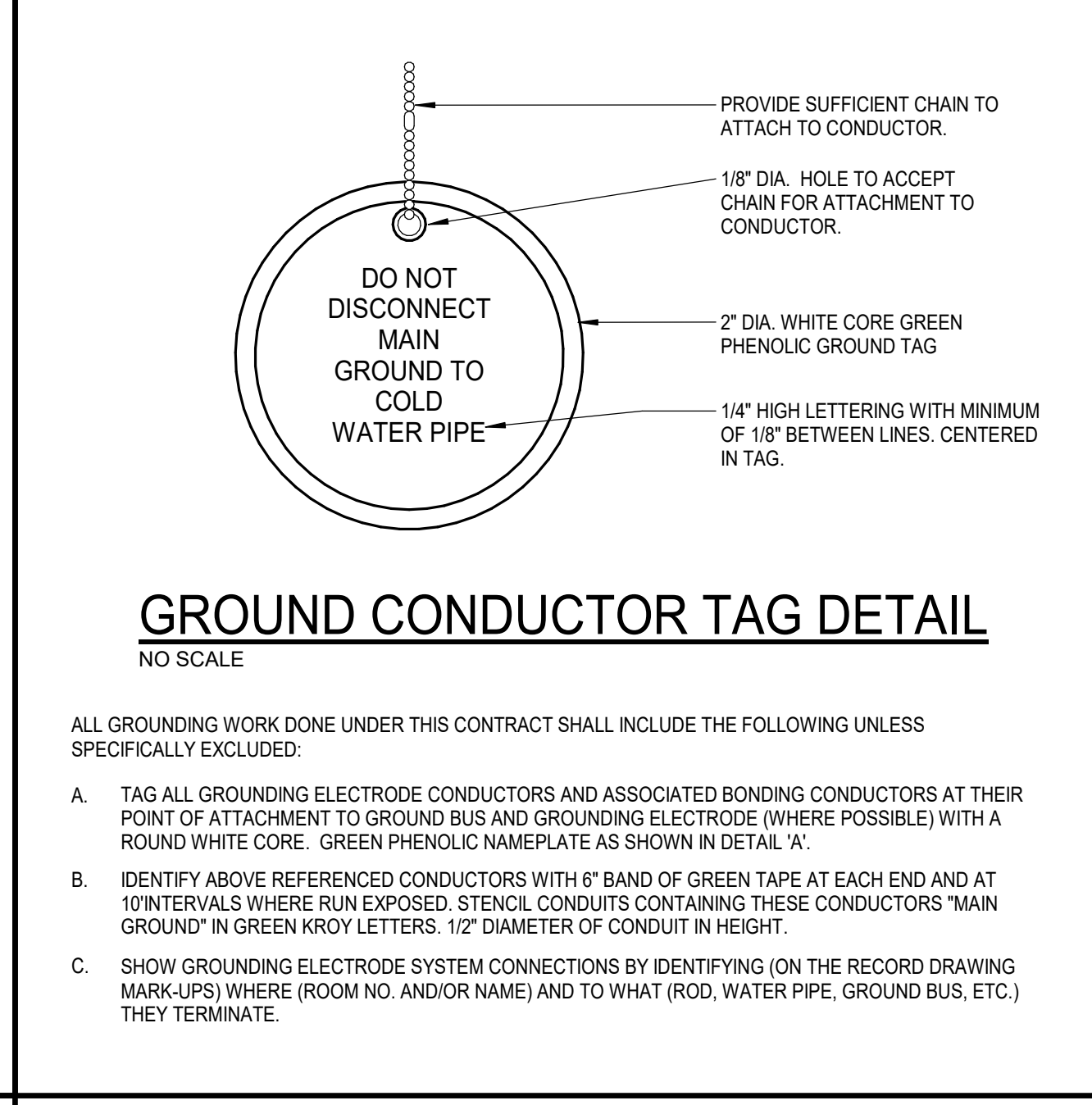
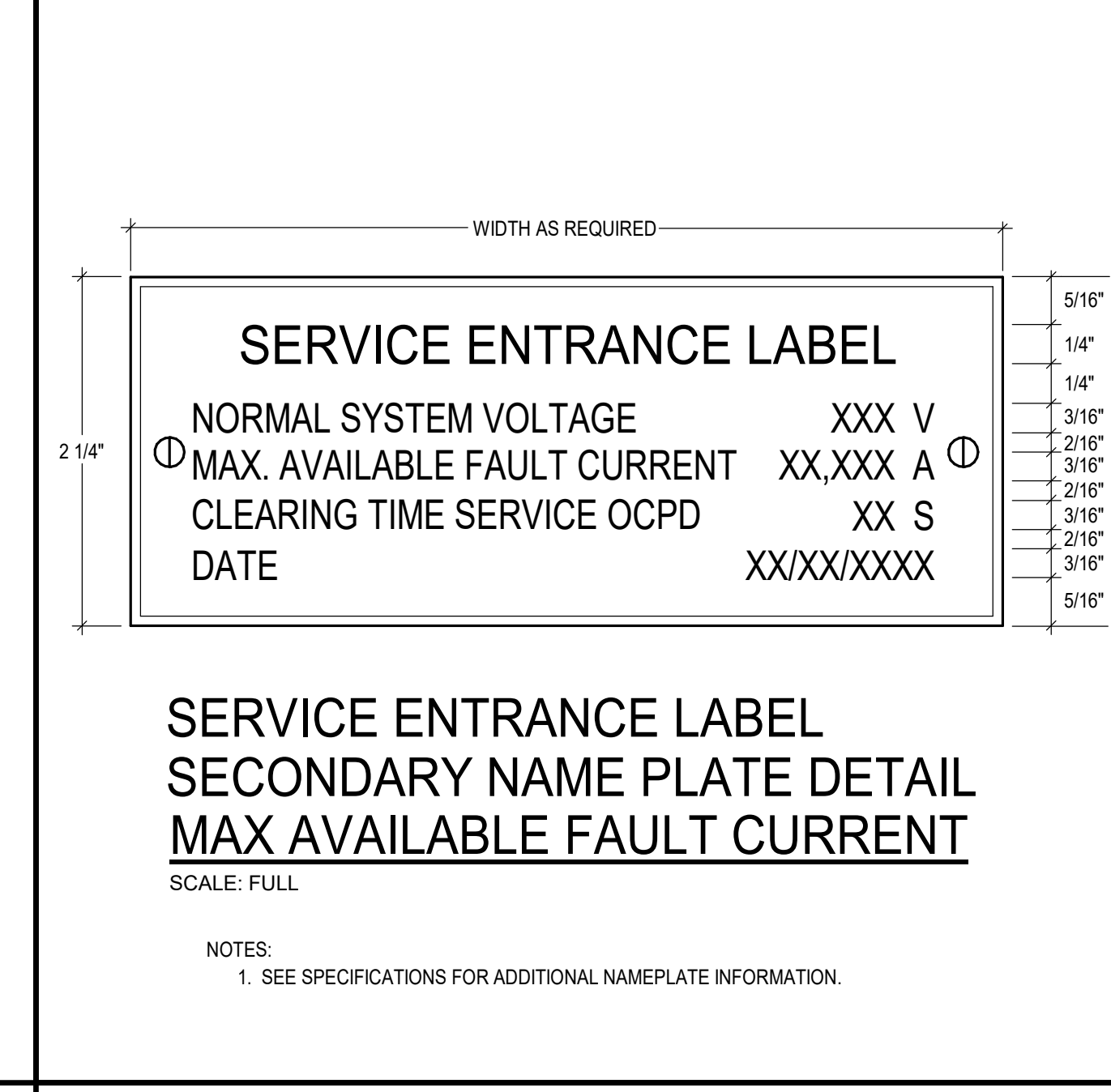
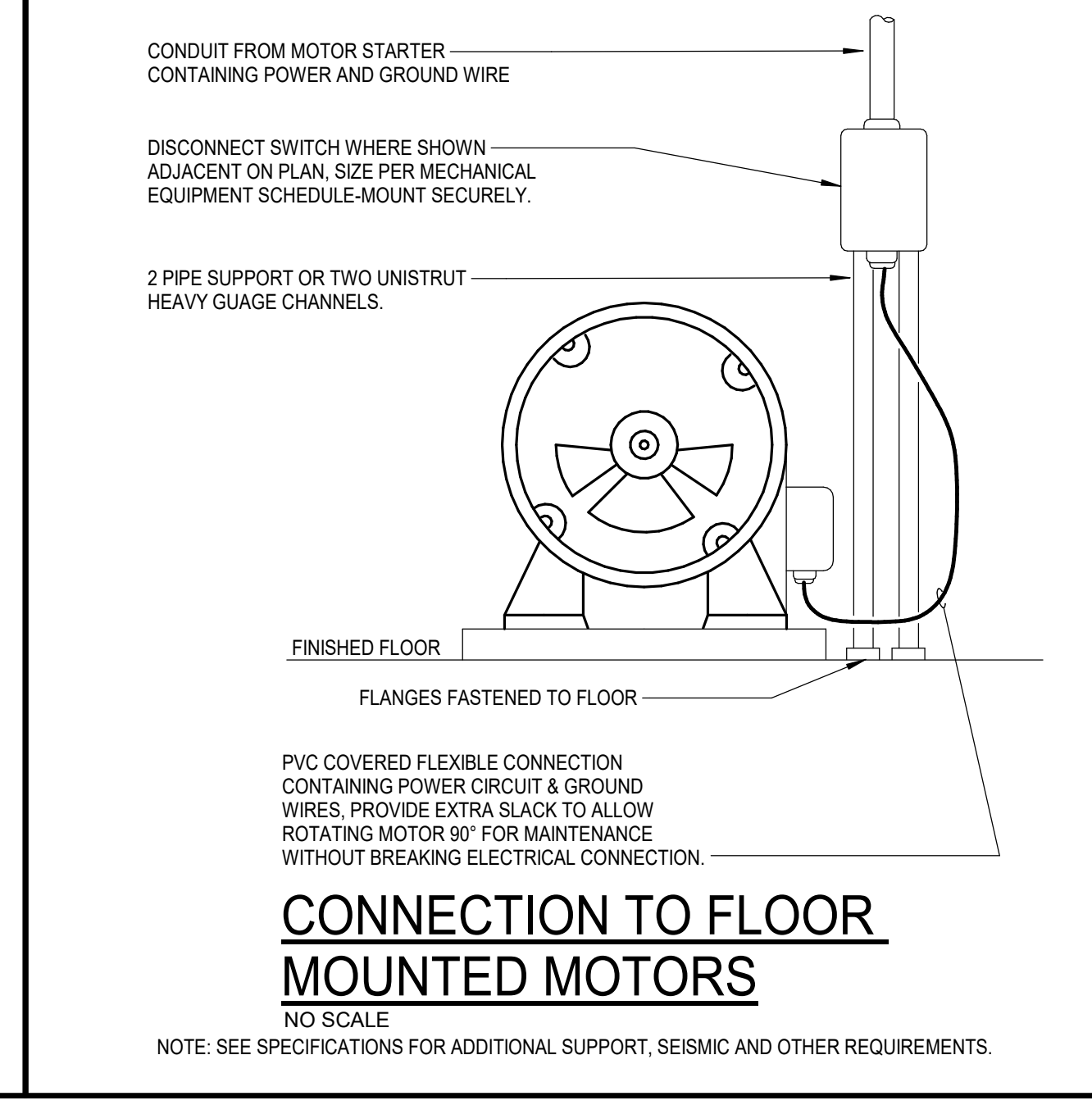
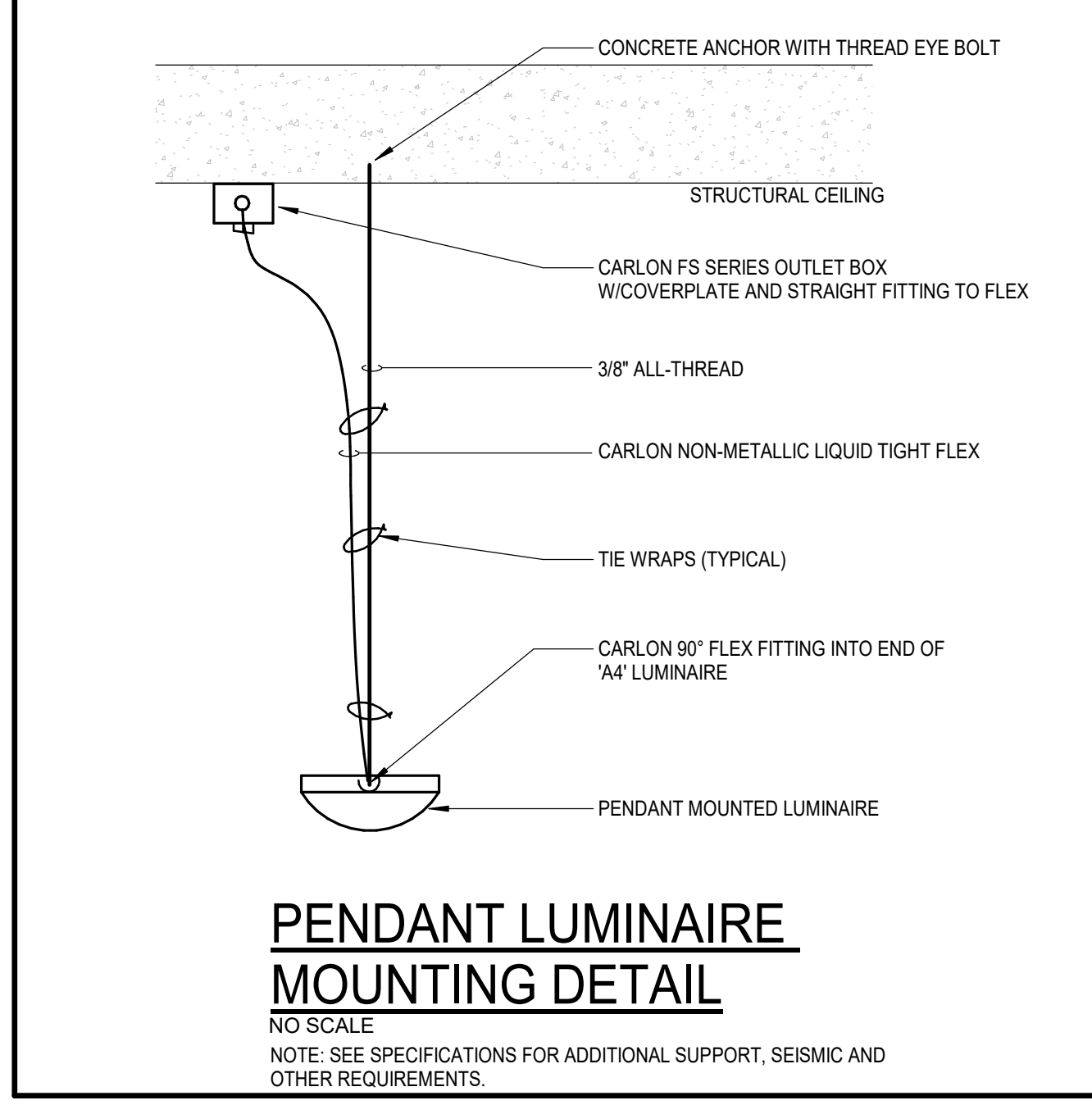
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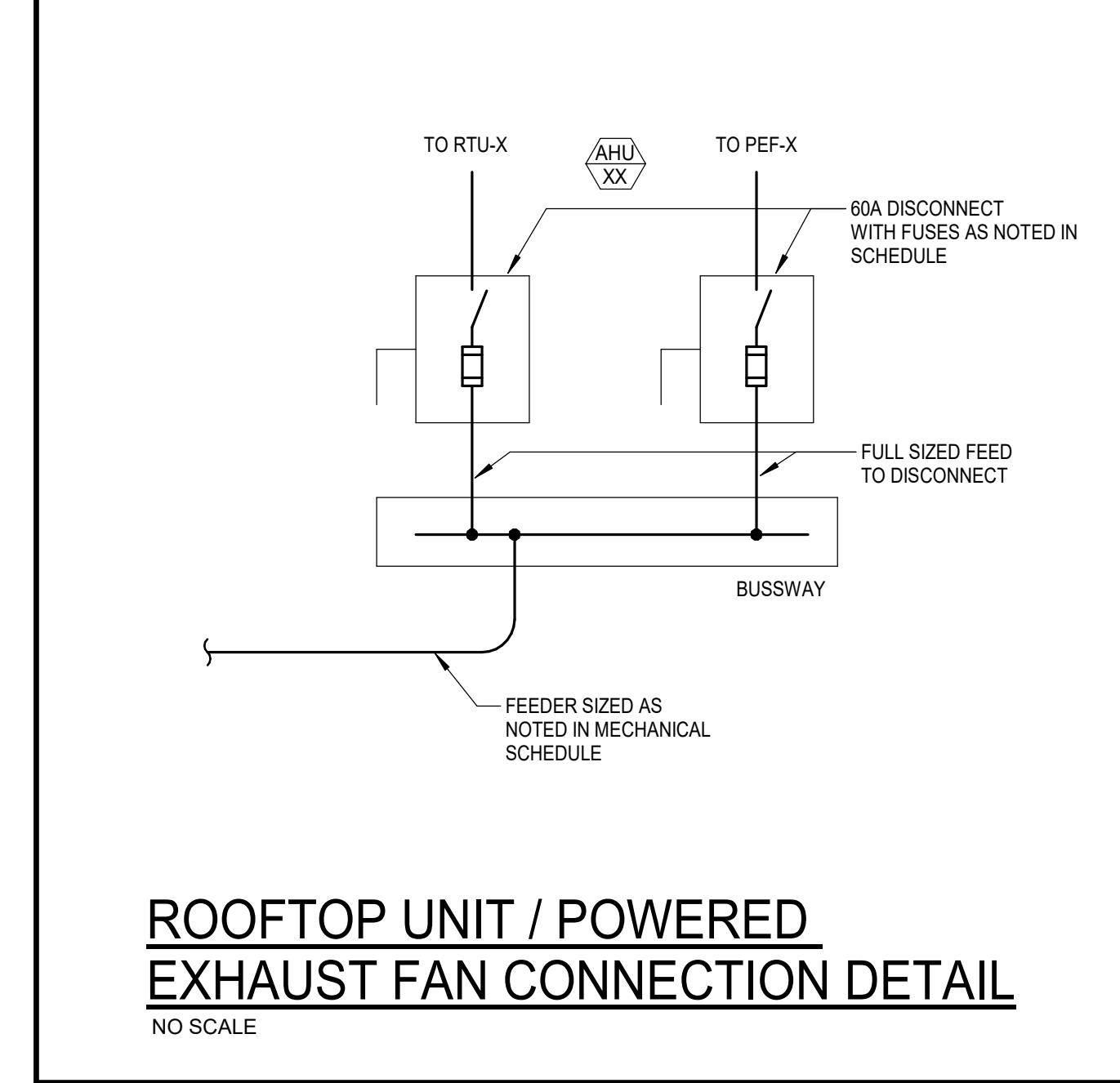
B



C



D



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Project:
 TFSD DISTRICT WIDE HVAC REPLACEMENT

Morningside Elementary School
 701 Morningside Dr
 Twin Falls, ID 83301

Sheet:
 ELECTRICAL DETAILS

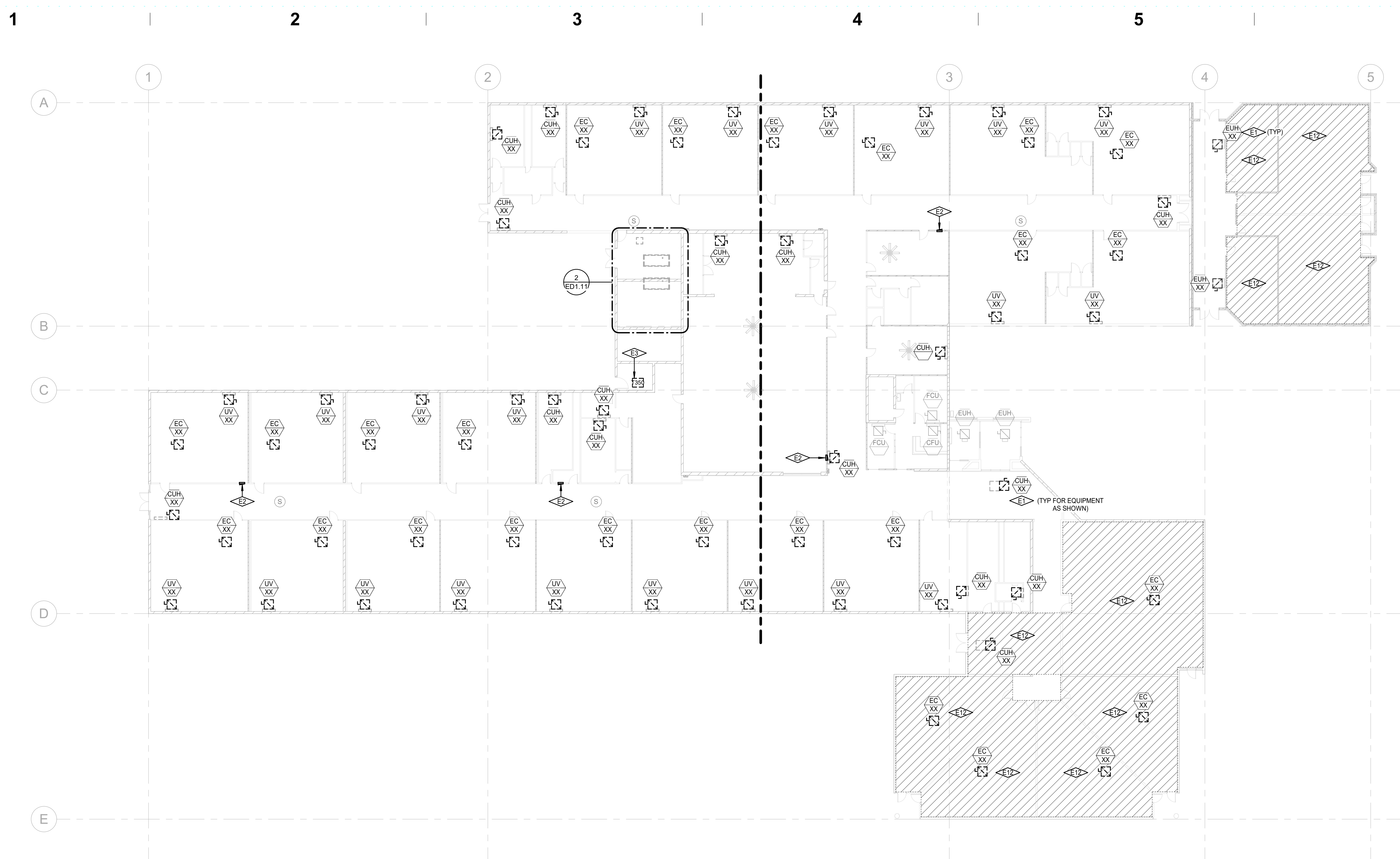
Revisions: △

PROFESSIONAL ENGINEER
 KYLE E. OLSON
 17703
 01/15/2025
 STATE OF IDAHO
 Electrical

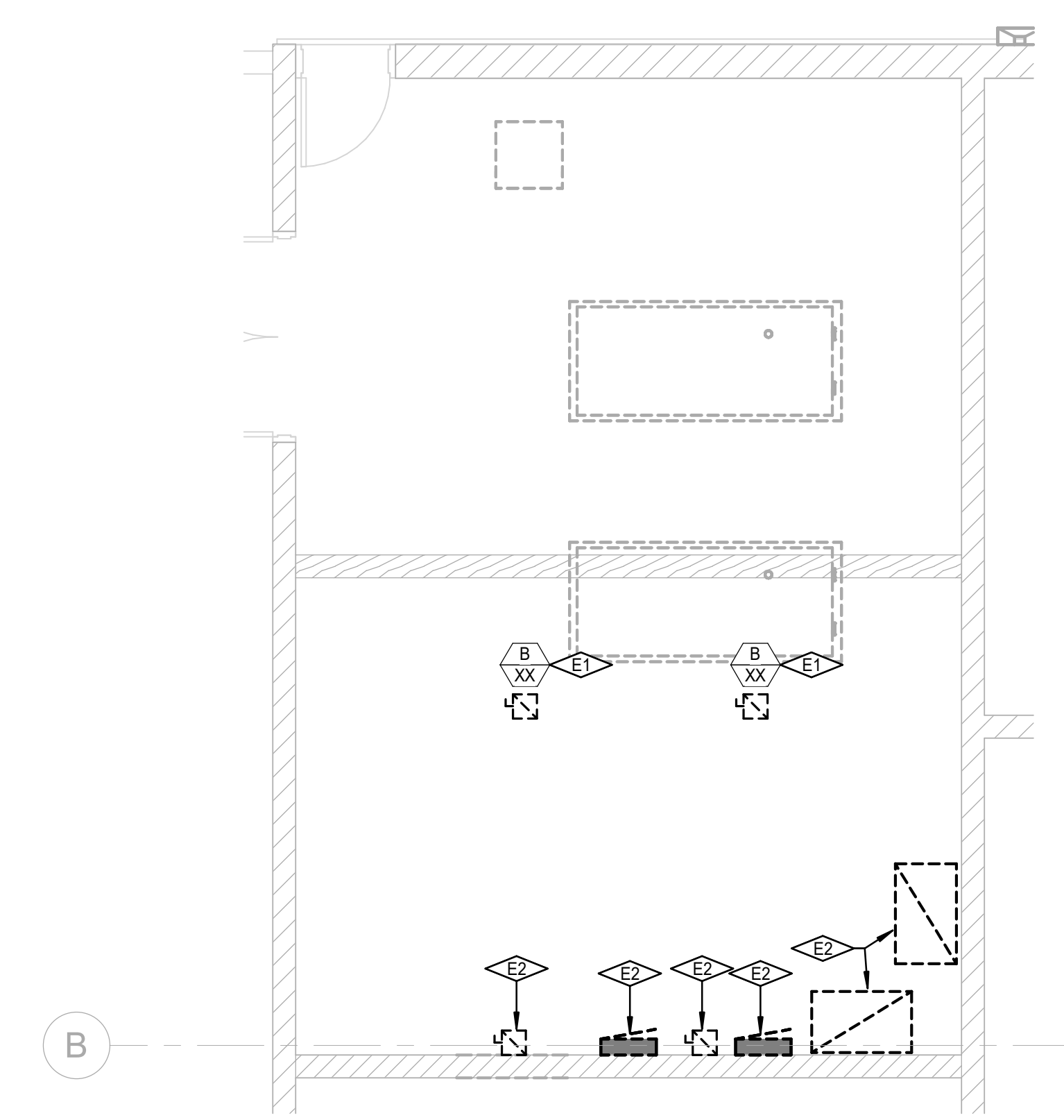
Project No: 23028
 Drawn By: JS
 Checked By: KO
 Date: 1/15/2025

Sheet No: **E4.01**

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



↑
ENLARGED ELECTRICAL ROOM DEMOLITION POWER PLAN
 SCALE: 1/4" = 1'-0"

KEYNOTES	
E1	EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKER 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.
E3	EXISTING UTILITY TRANSFORMER TO BE REPLACED BY UTILITY. COORDINATE WITH UTILITY FOR ALL WORK REQUIRED.
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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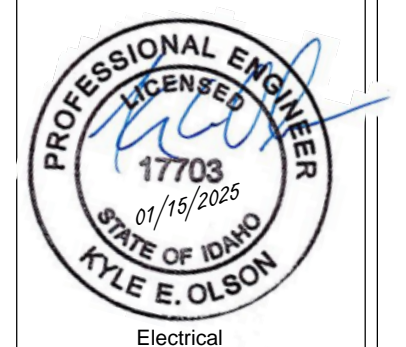
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Sheet:
 LEVEL 1 POWER DEMOLITION PLAN

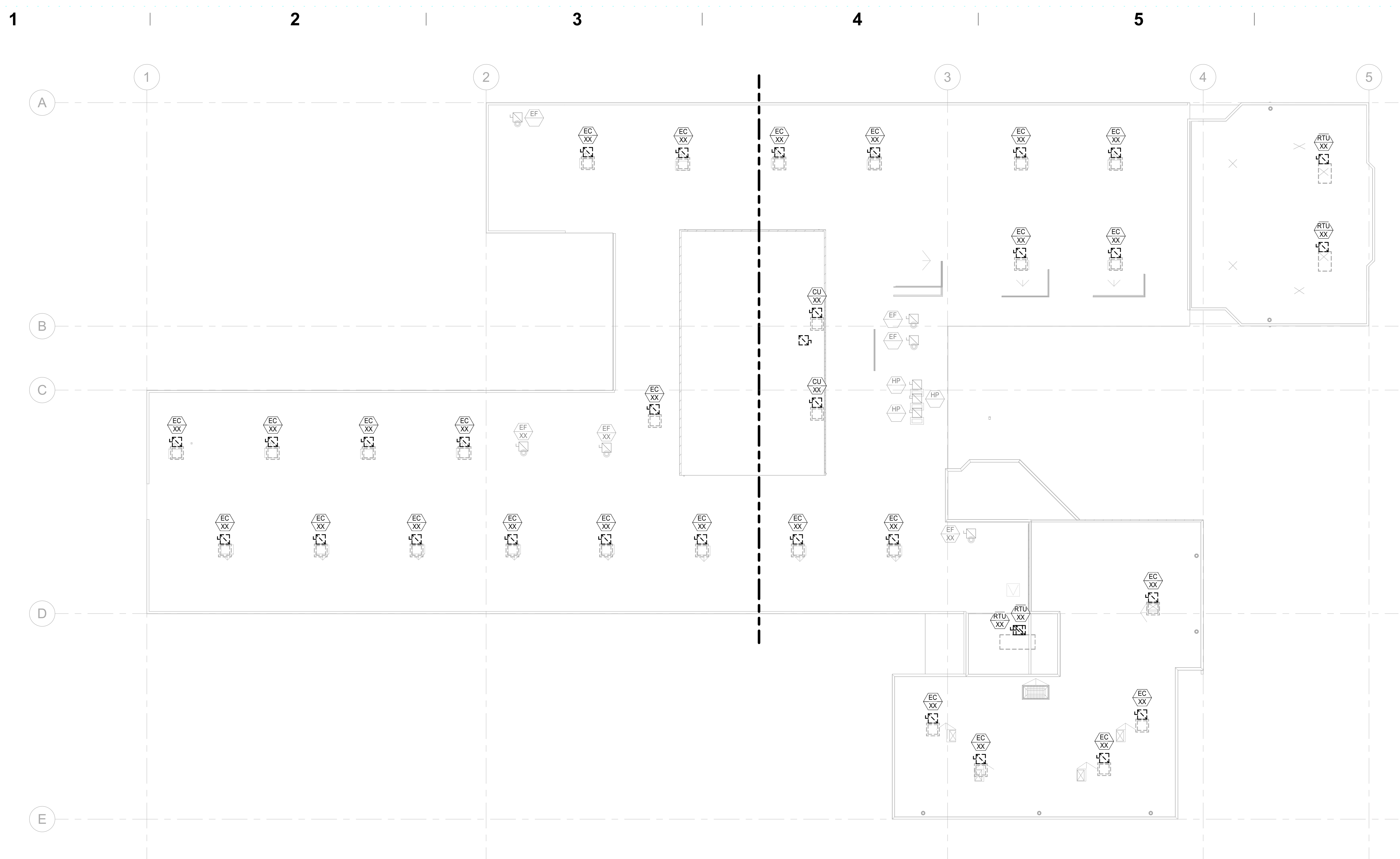
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KEYNOTES

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

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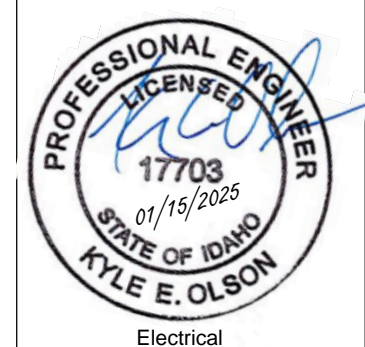
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Project:
TFSD DISTRICT WIDE HVAC
REPLACEMENT

Morningside Elementary School
701 Morningside Dr
Twin Falls, ID 83301

Sheet:
ROOF POWER DEMOLITION
PLAN

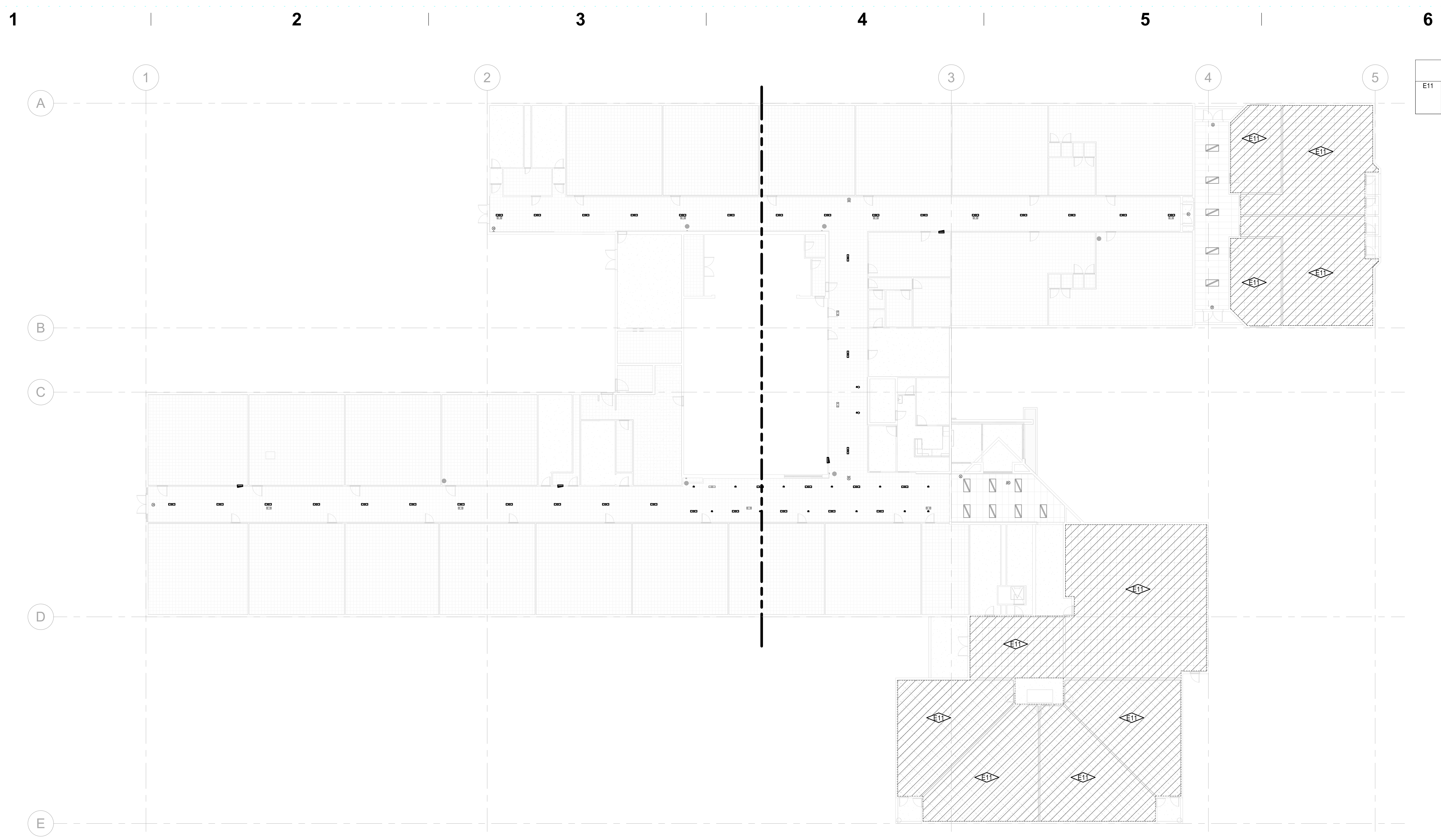
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Project No: 23028
Drawn By: JS
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Sheet No:
ED1.12



KEYNOTES
 E11 EXISTING LUMNAIRES 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.

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

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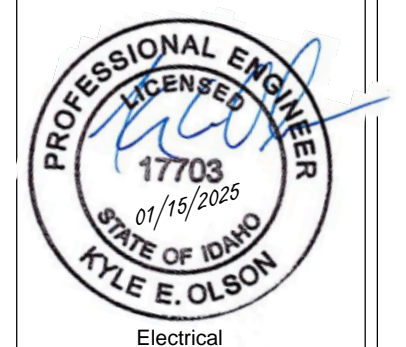
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 LEVEL 1 LIGHTING DEMOLITION PLAN

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