

LAB/ADMIN BUILDING - LAB SPACE CONSTRUCTION PHASING REQUIREMENTS:

THE LAB/ADMIN BUILDING INCLUDES TWO LABORATORY SPACES (LABORATORY 1 - 101 AND LABORATORY 2 - 102). KITSAP COUNTY REQUIRES FULL USE OF AT LEAST ONE LABORATORY SPACE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. FULL USE IS DEFINED AS THE FOLLOWING:

- FULLY FUNCTIONAL HVAC SYSTEM FOR SPACE CONDITIONING AND VENTILATION.
- FULLY FUNCTIONAL SPACE LIGHTING.
- TWO FULLY FUNCTIONAL COUNTERTOP MOUNTED OVENS (EXISTING EQUIPMENT).
- ONE FULLY FUNCTIONAL COUNTERTOP MOUNTED AUTOCLAVE (EXISTING EQUIPMENT).
- ONE FULLY FUNCTIONAL FUME HOOD AND ASSOCIATED EXHAUST FAN (EXISTING EQUIPMENT).
- UNOBSTRUCTED ACCESS FROM THE BUILDING EXTERIOR.

LAB/ADMIN BUILDING - LAB SPACE SUGGESTED PHASING PLAN:

THE CONTRACTOR SHALL PROVIDE A PHASING PLAN FOR ALL SCOPE RELATED TO THE LAB/ADMIN BUILDING TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT (DCD) WHEN APPLYING FOR APPLICABLE PERMITS ASSOCIATED WITH THIS PROJECT.

PHASE 1: LABORATORY 1 - 101 REMAINS FULLY FUNCTIONAL. ALL EXISTING EQUIPMENT SERVING THIS SPACE IS FULLY FUNCTIONAL. PERFORM DEMOLITION SCOPE WITHIN LABORATORY 2 - 102. PERFORM NEW CONSTRUCTION WORK IN LABORATORY 2 - 102. COMPLETE TAB AND CX FOR ALL HVAC EQUIPMENT SERVING LABORATORY 2 - 102. THE COUNTY SHALL RELOCATE TWO OVENS (EXISTING EQUIPMENT) AND ONE AUTOCLAVE (EXISTING EQUIPMENT) FROM LABORATORY 1 - 101 TO LABORATORY 2 - 102. LABORATORY 2 - 102 BECOMES FULLY FUNCTIONAL.

PHASE 2: PERFORM DEMOLITION SCOPE WITHIN LABORATORY 1 - 101. PERFORM NEW CONSTRUCTION WORK IN LABORATORY 1 - 101. COMPLETE TAB AND CX FOR ALL HVAC EQUIPMENT SERVING LABORATORY 1 - 101. LABORATORY 1 - 101 BECOMES FULLY FUNCTIONAL. THE COUNTY SHALL RELOCATE EXISTING EQUIPMENT AS NEEDED BETWEEN THE TWO LAB SPACES.



Issued for Construction

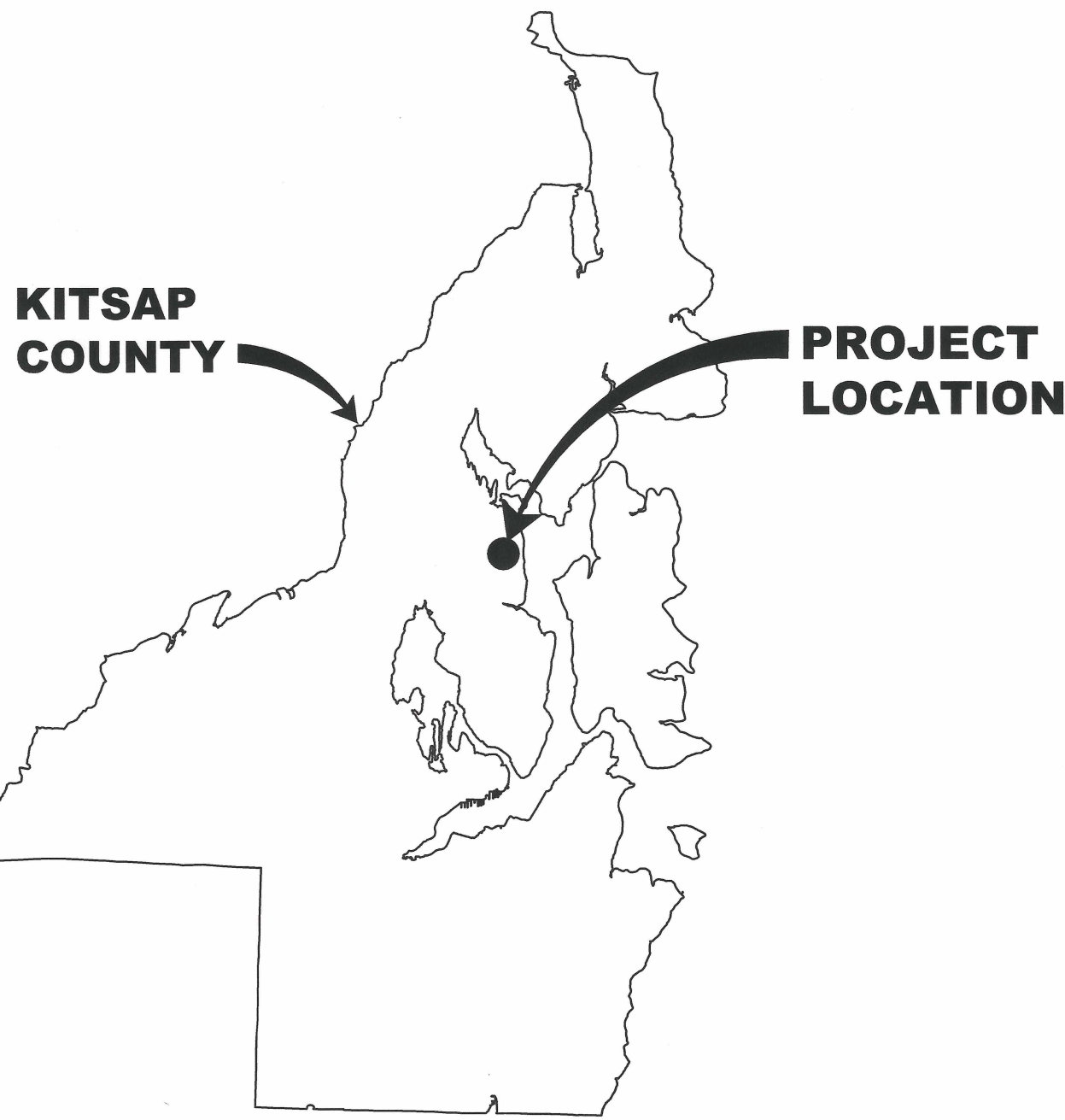
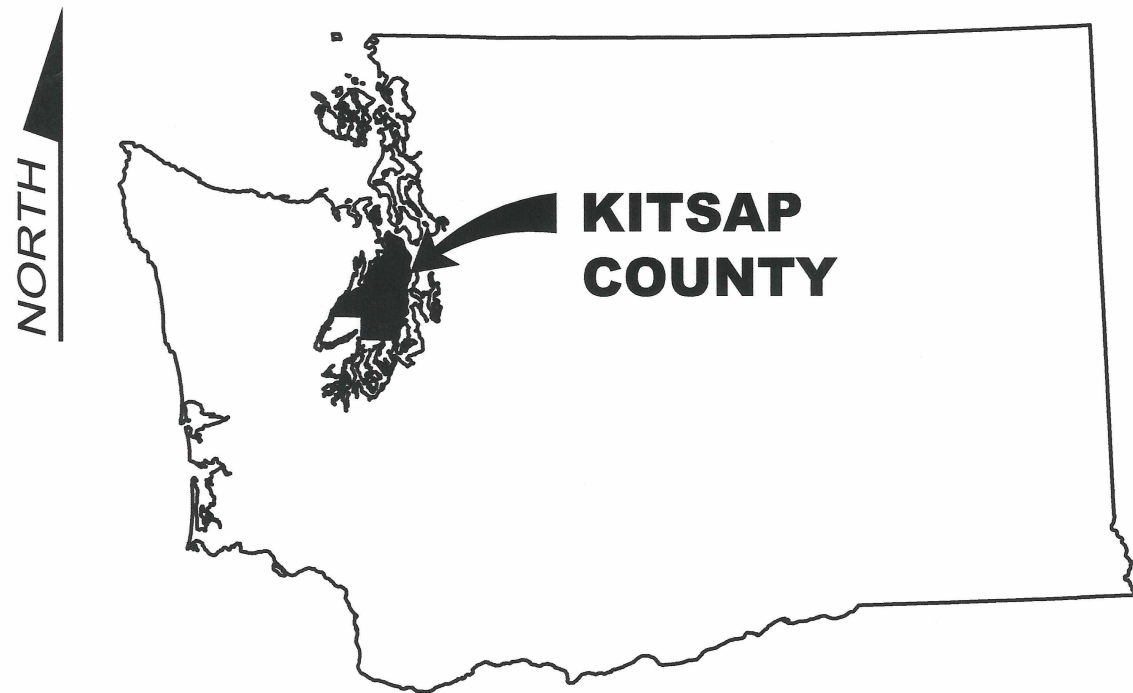
KITSAP COUNTY

CENTRAL KITSAP TREATMENT PLANT (CKTP)
HVAC SYSTEM REPLACEMENT

JUNE 2025

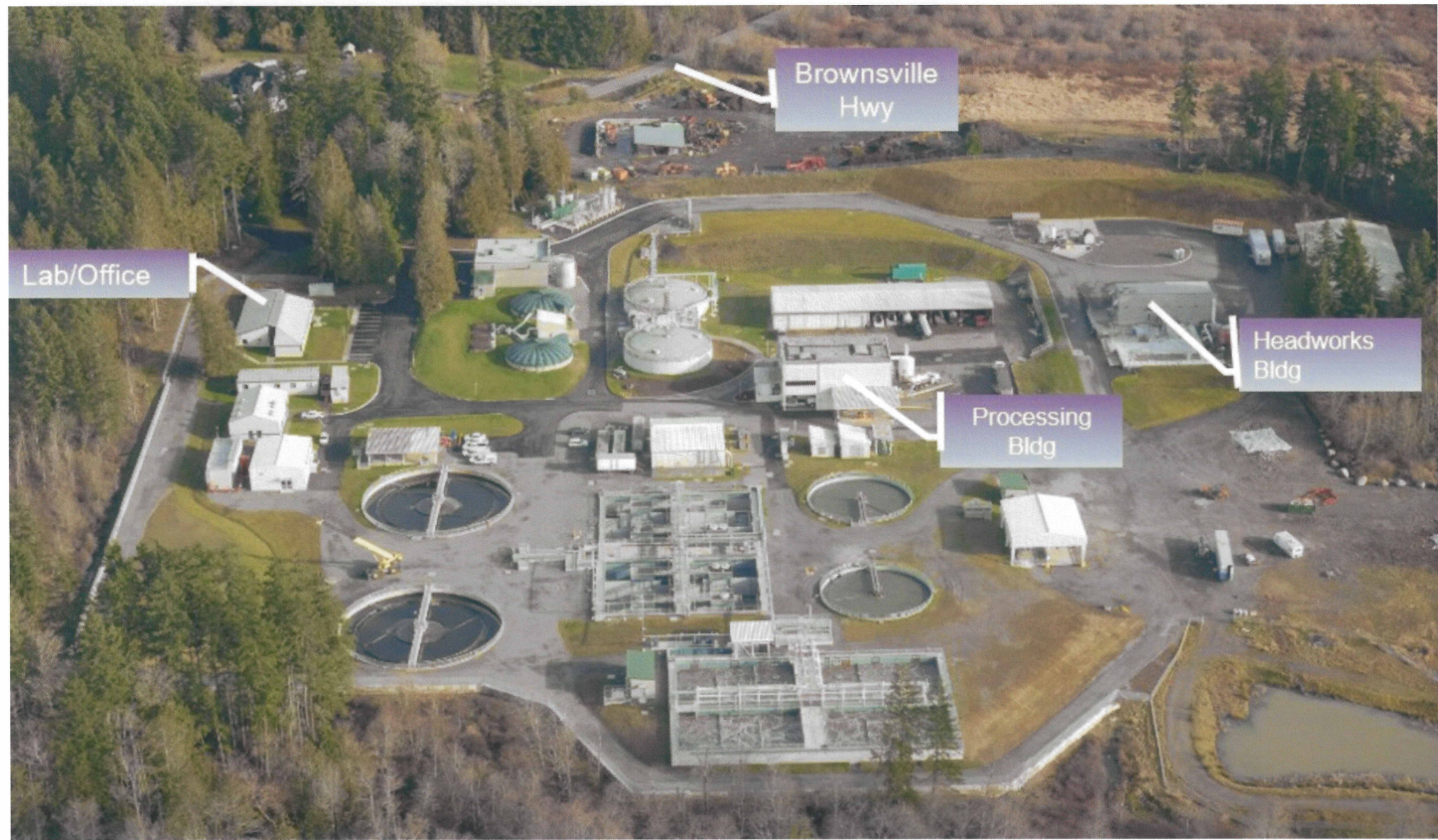
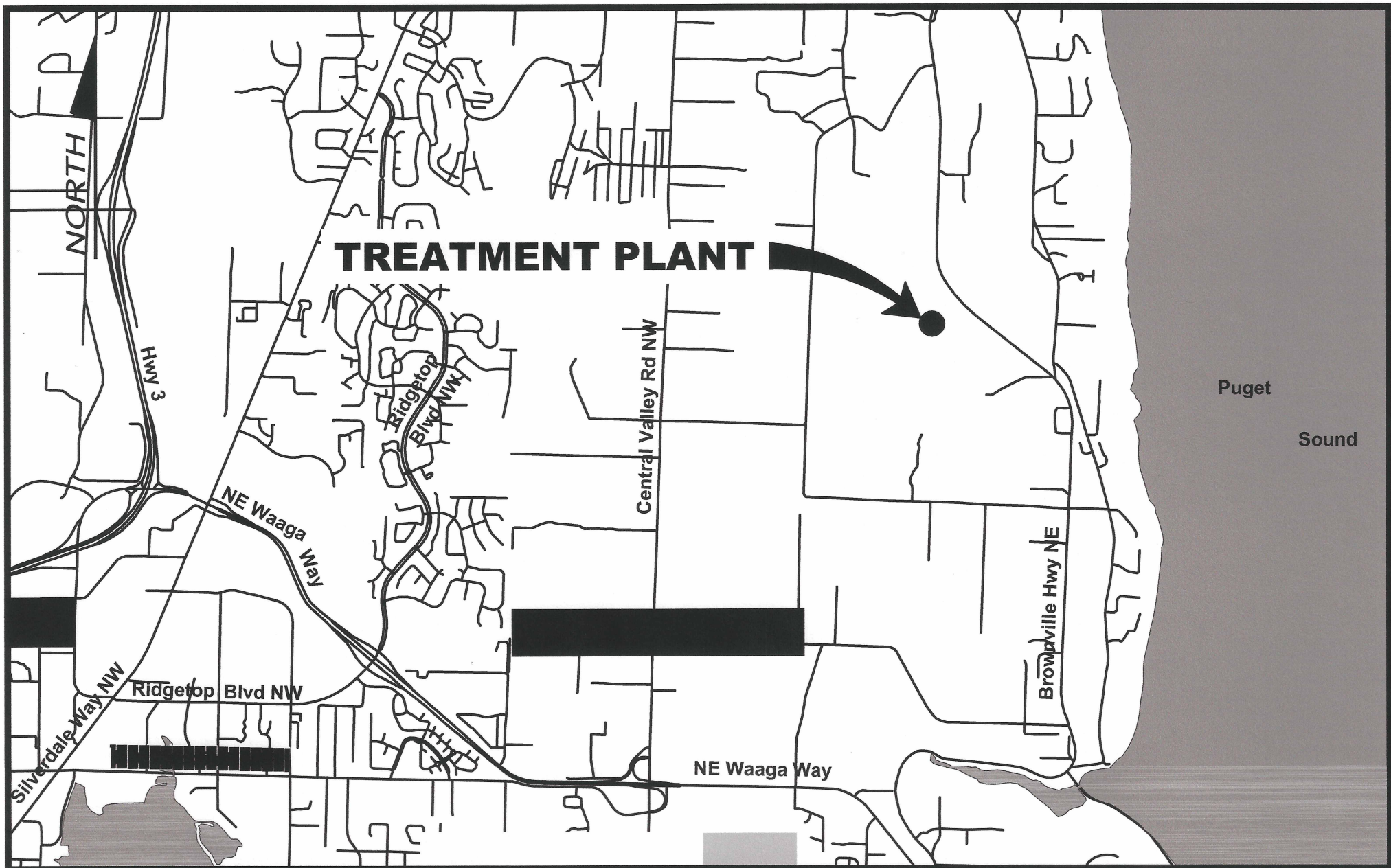
LOCATION MAPS

NTS



VICINITY MAP

NTS



COUNTY COMMISSIONERS

Christine Rolfes - District #1
Oran Root - District #2
Katherine T. Walters - District #3

APPROVED BY

1/21/2026
DATE

KORY ANGLESEY, P.E.
DIRECTOR OF PUBLIC WORKS

1/20/2026
DATE

CHRISTOPHER PIERCY
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IN ASSOCIATION WITH

Mechanical Engineer - FSi Engineers
Architect - Rolluda Architects
Structural Engineer - BHC Consultants, LLC
Electrical Engineer - FSi Engineers (Lab/Admin Building & Headworks Building)
- BHC (Process Building)

CONSTRUCTION NOTES

- 1 DEMOLISH EXISTING WINDOW
- 2 EXISTING WINDOW TO REMAIN
- 3 DEMOLISH EXISTING DOOR, EXISTING FRAME TO REMAIN
- 4 DEMOLISH EXISTING DOOR & FRAME

GENERAL LEGEND

- NORTH ARROW
- DETAIL/DRAWING REFERENCE
- SECTION REFERENCE
- CONSTRUCTION NOTE
- REVISION SYMBOL
- POINT OF CONNECTION

PLAN SYMBOLS

- EXISTING TO REMAIN (LIGHT LINES)
- NEW



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LAB ADMIN BUILDING - FLOOR PLAN

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

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Scale Accordingly



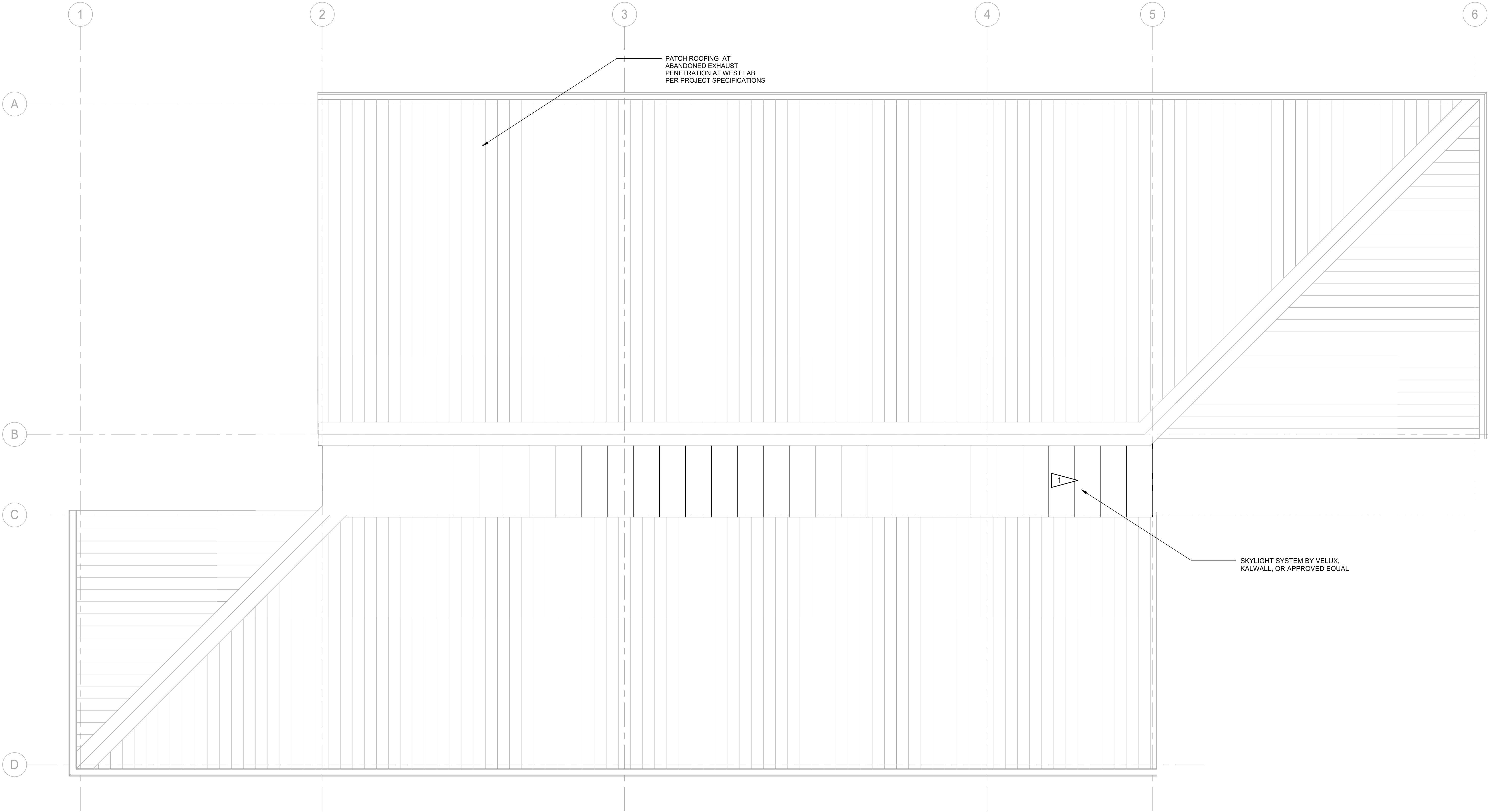
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING FLOOR PLAN

Drawing: **A1.01**
Sheet: 3 of 47
File: COMPLETE
Date: September 2025

CONSTRUCTION NOTES

1 DEMOLISH EXISTING SKYLIGHT AND 2X FRAMING



1 LAB ADMIN BUILDING - ROOF PLAN
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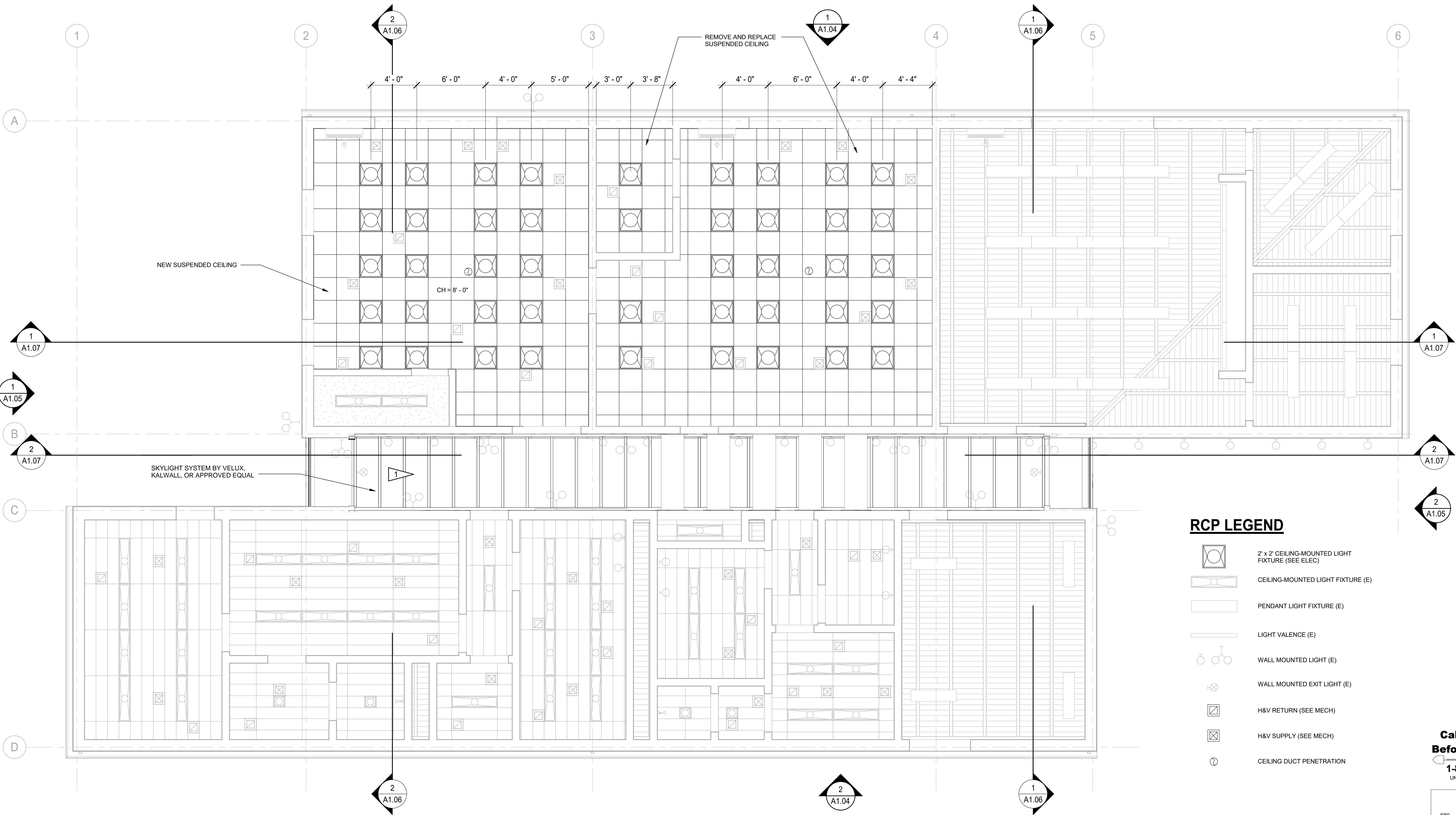
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LAB-ADMIN BUILDING ROOF PLAN

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CONSTRUCTION NOTES

1 DEMOLISH EXISTING SKYLIGHT AND 2X FRAMING



RCP LEGEND

- 2' x 2' CEILING-MOUNTED LIGHT FIXTURE (SEE ELEC)
- CEILING-MOUNTED LIGHT FIXTURE (E)
- PENDANT LIGHT FIXTURE (E)
- LIGHT VALENCE (E)
- WALL MOUNTED LIGHT (E)
- WALL MOUNTED EXIT LIGHT (E)
- H&V RETURN (SEE MECH)
- H&V SUPPLY (SEE MECH)
- CEILING DUCT PENETRATION

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LAB ADMIN BUILDING - REFLECTED CEILING PLAN
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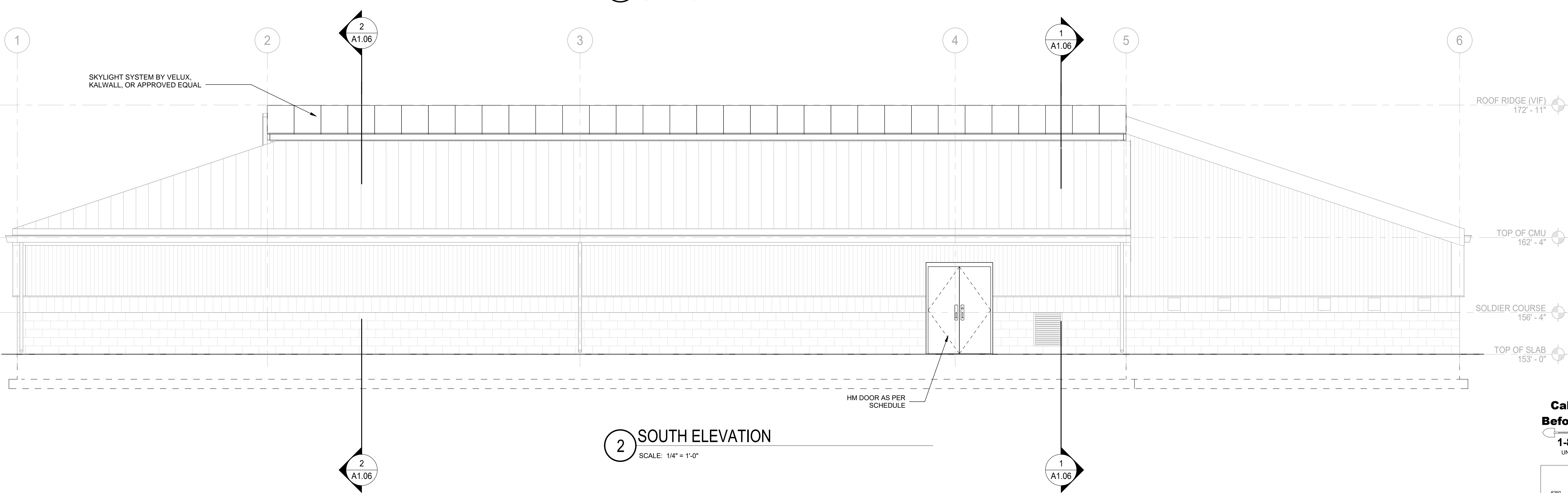
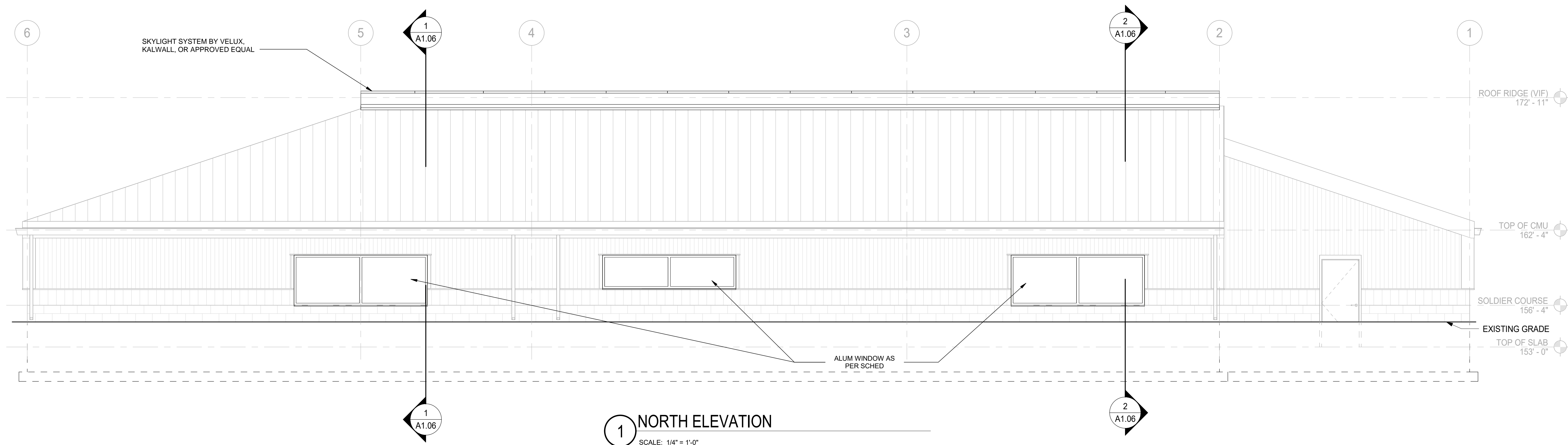
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING REFLECTED
CEILING PLAN

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Sheet: 5 of 47
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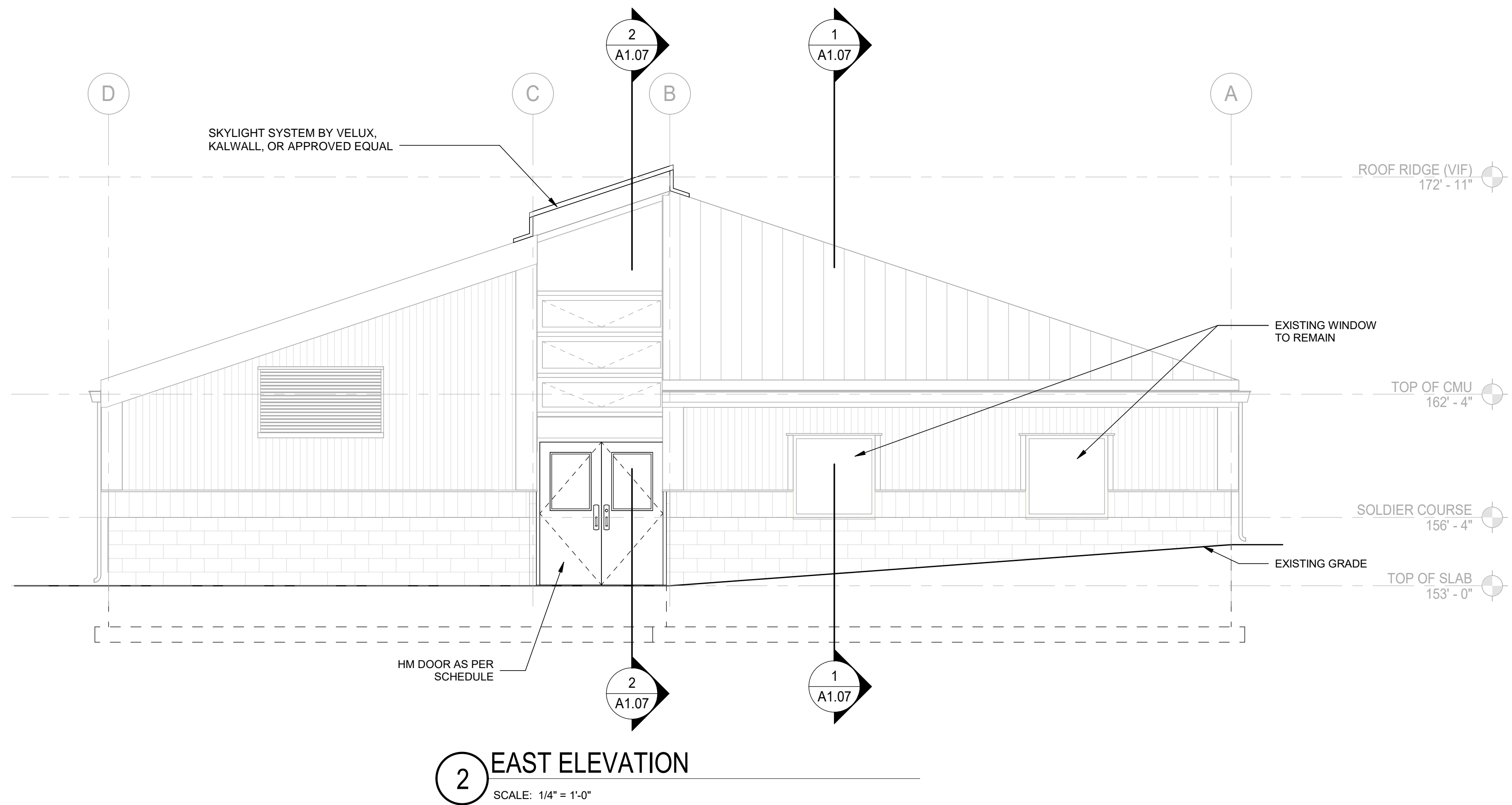
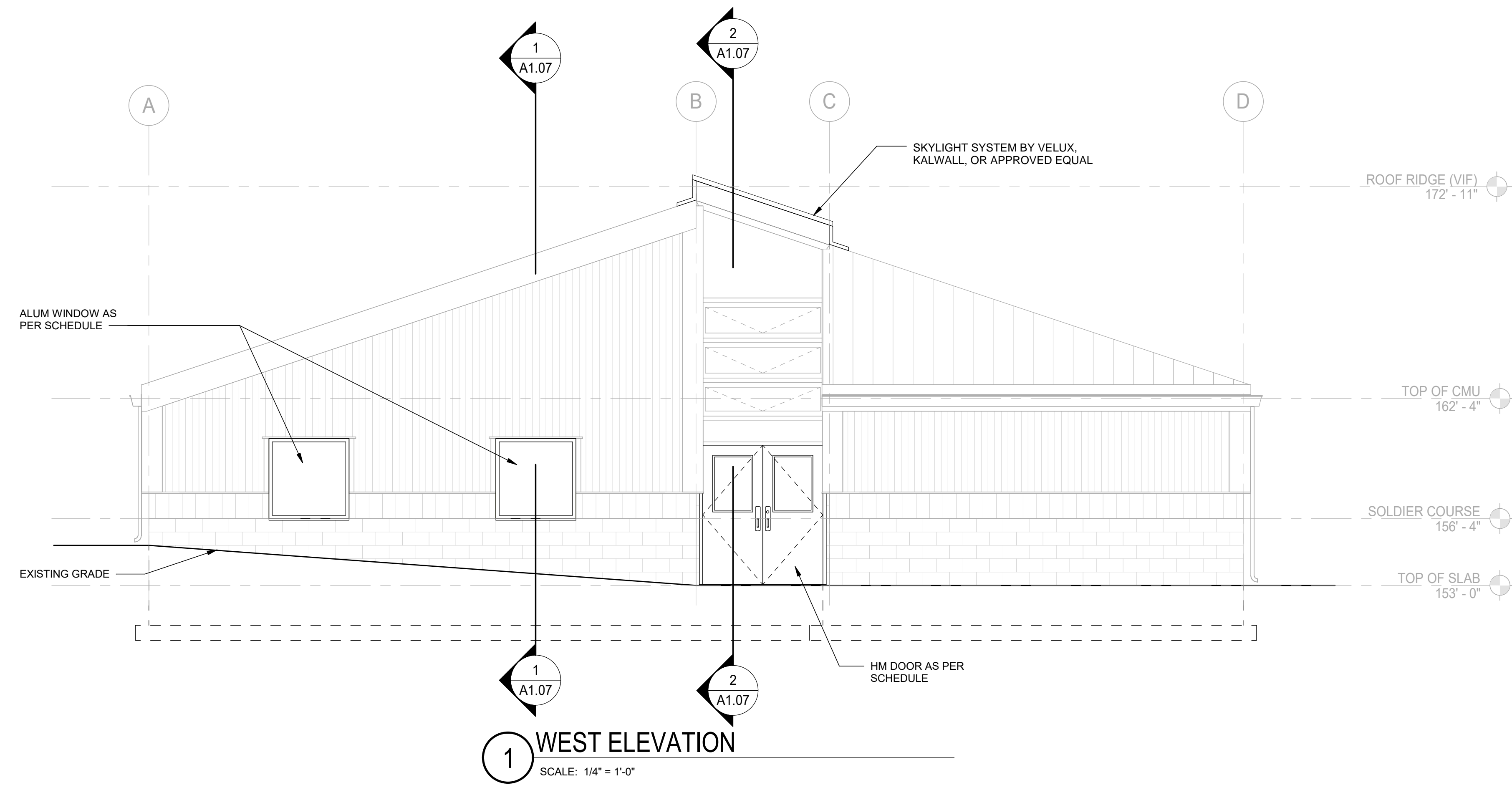


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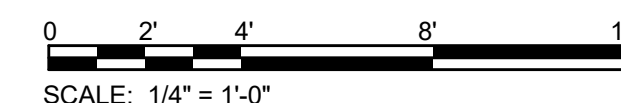
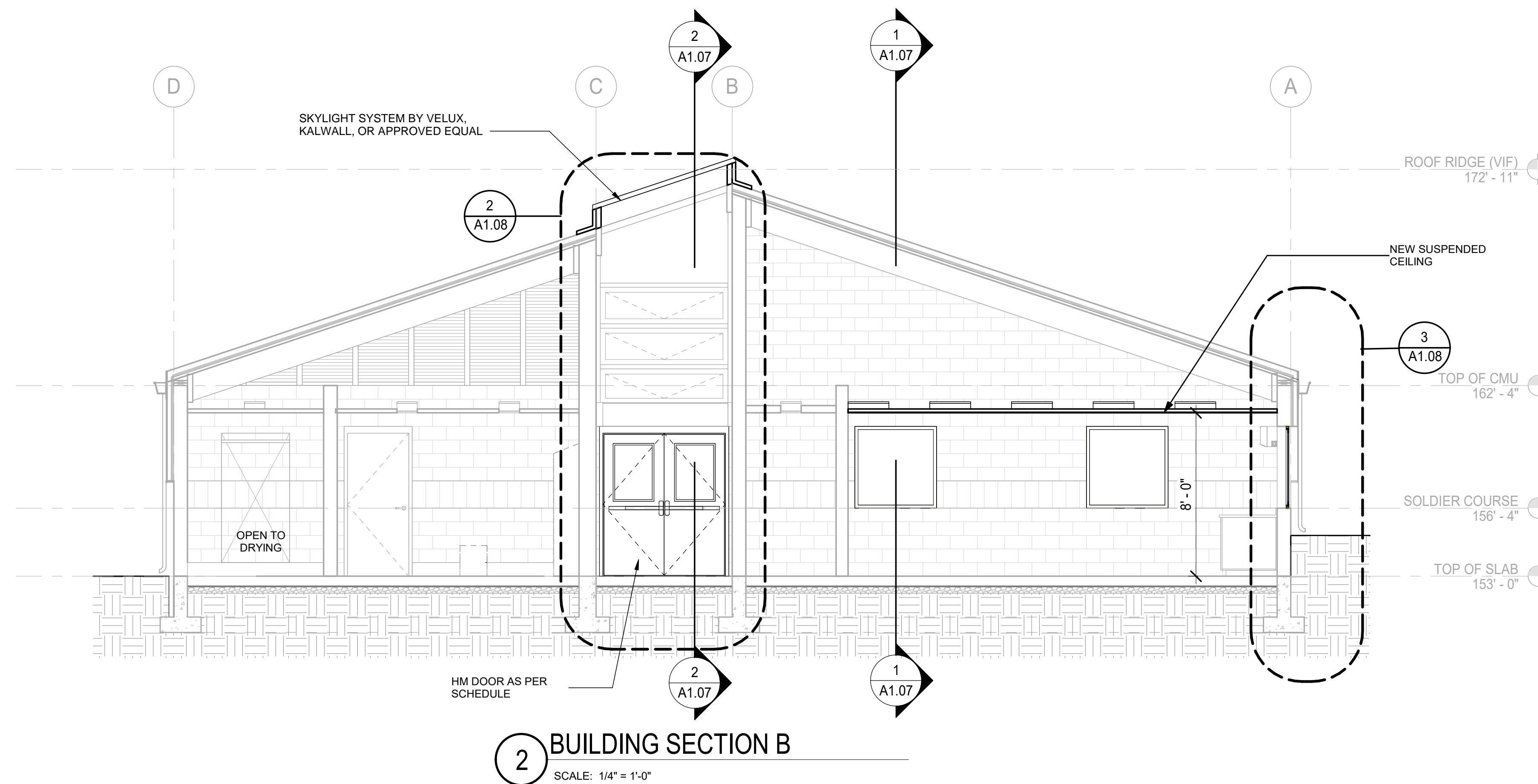
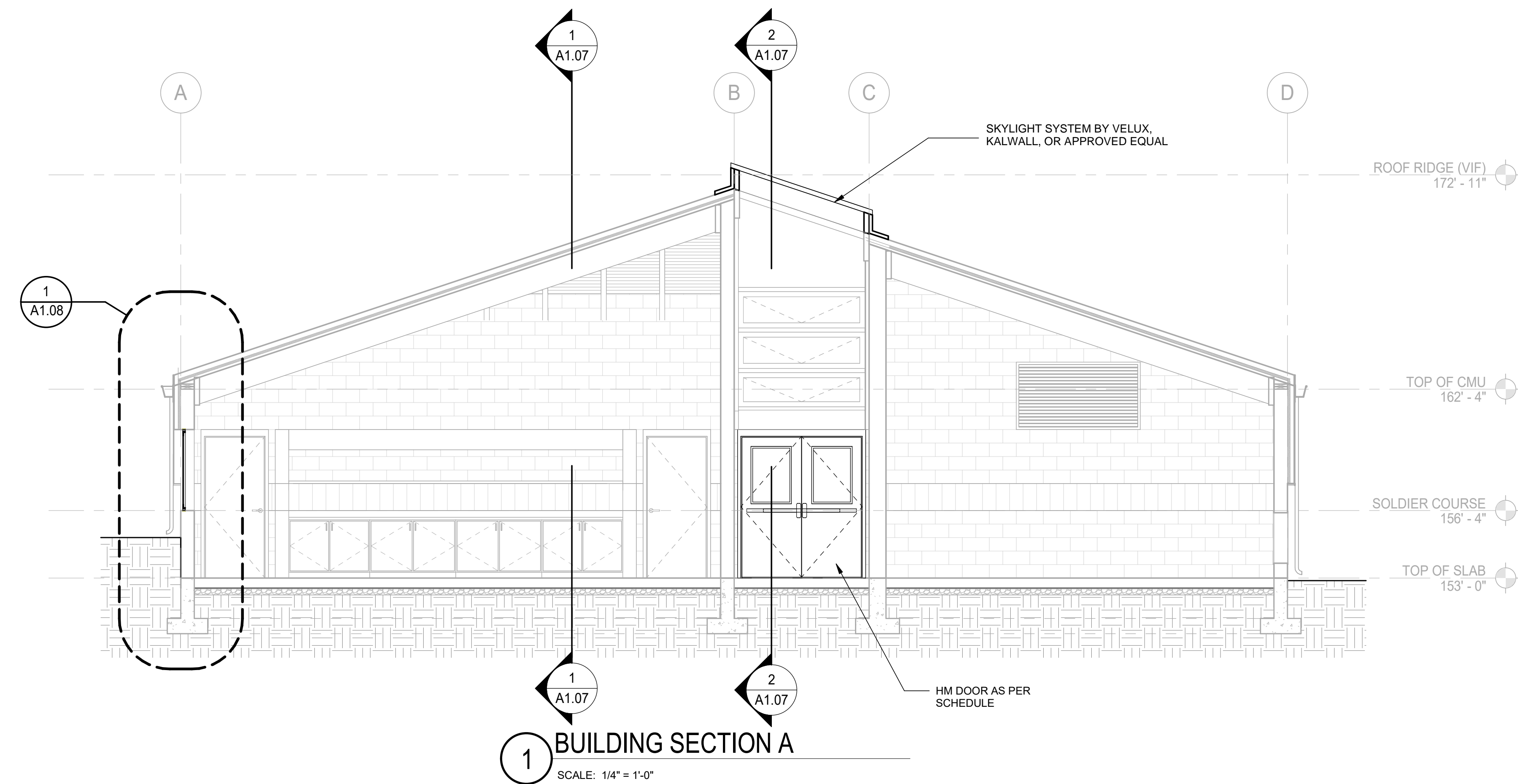
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING ELEVATIONS

Drawing: **A1.05**
Sheet: 7 of 47
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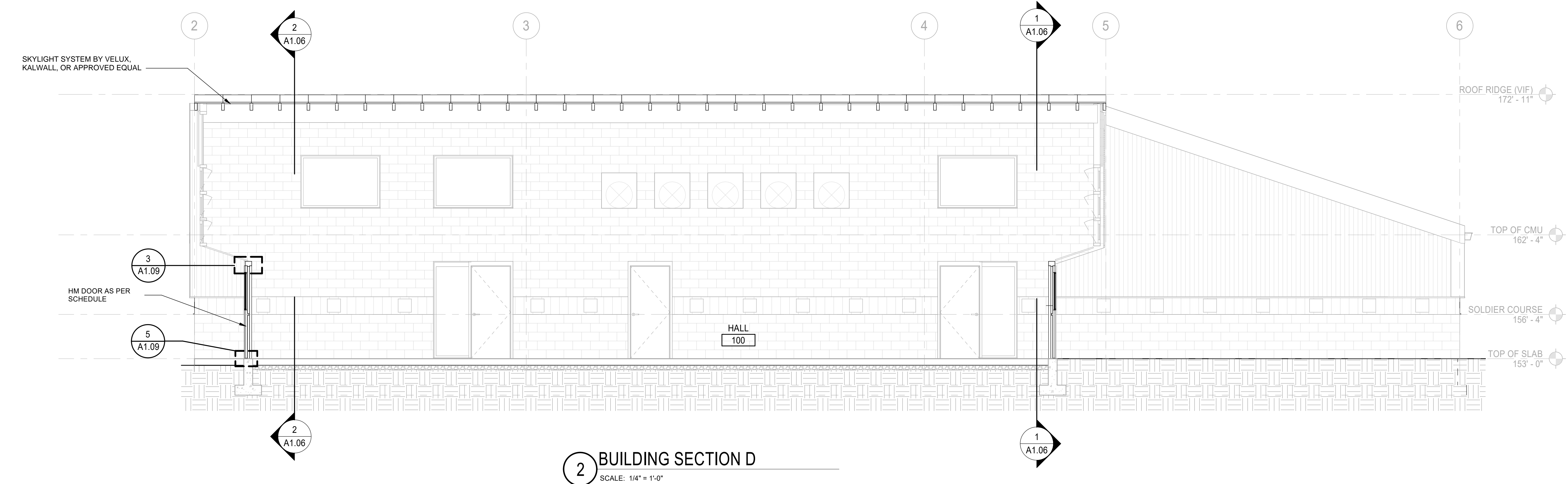
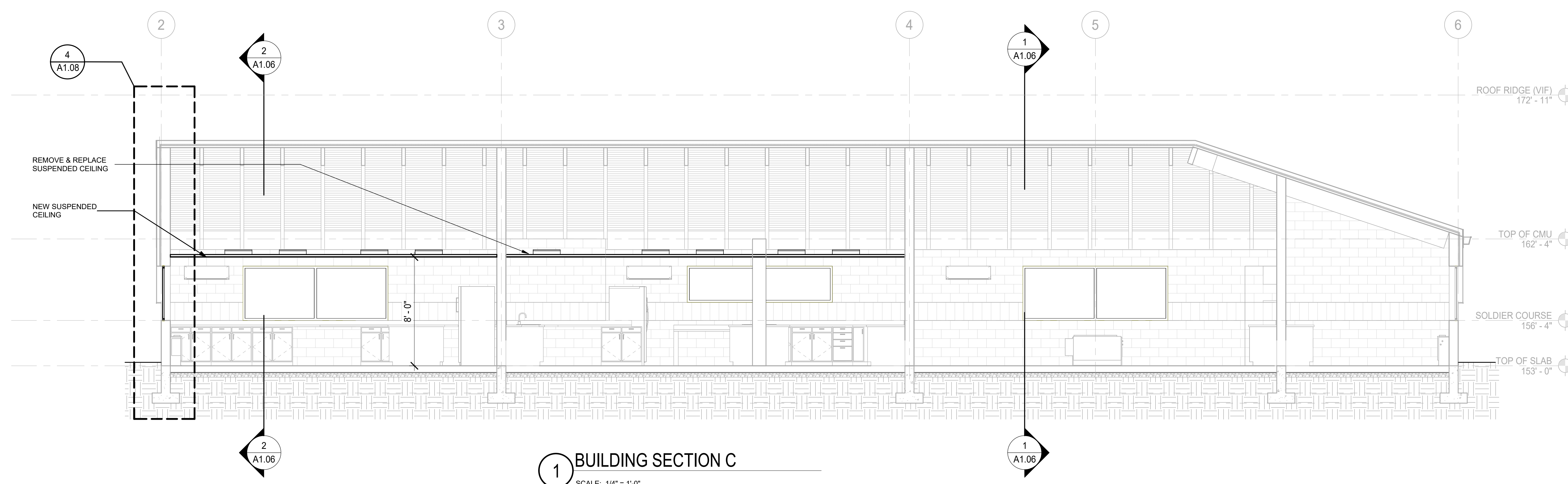
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING SECTIONS

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Port Orchard, WA 98366

CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

LAB-ADMIN BUILDING SECTIONS

6250

REGISTERED ARCHITECT

Alex E. Rolluda

STATE OF WASHINGTON

Drawing: **A1.07**

Sheet: 9 of 47

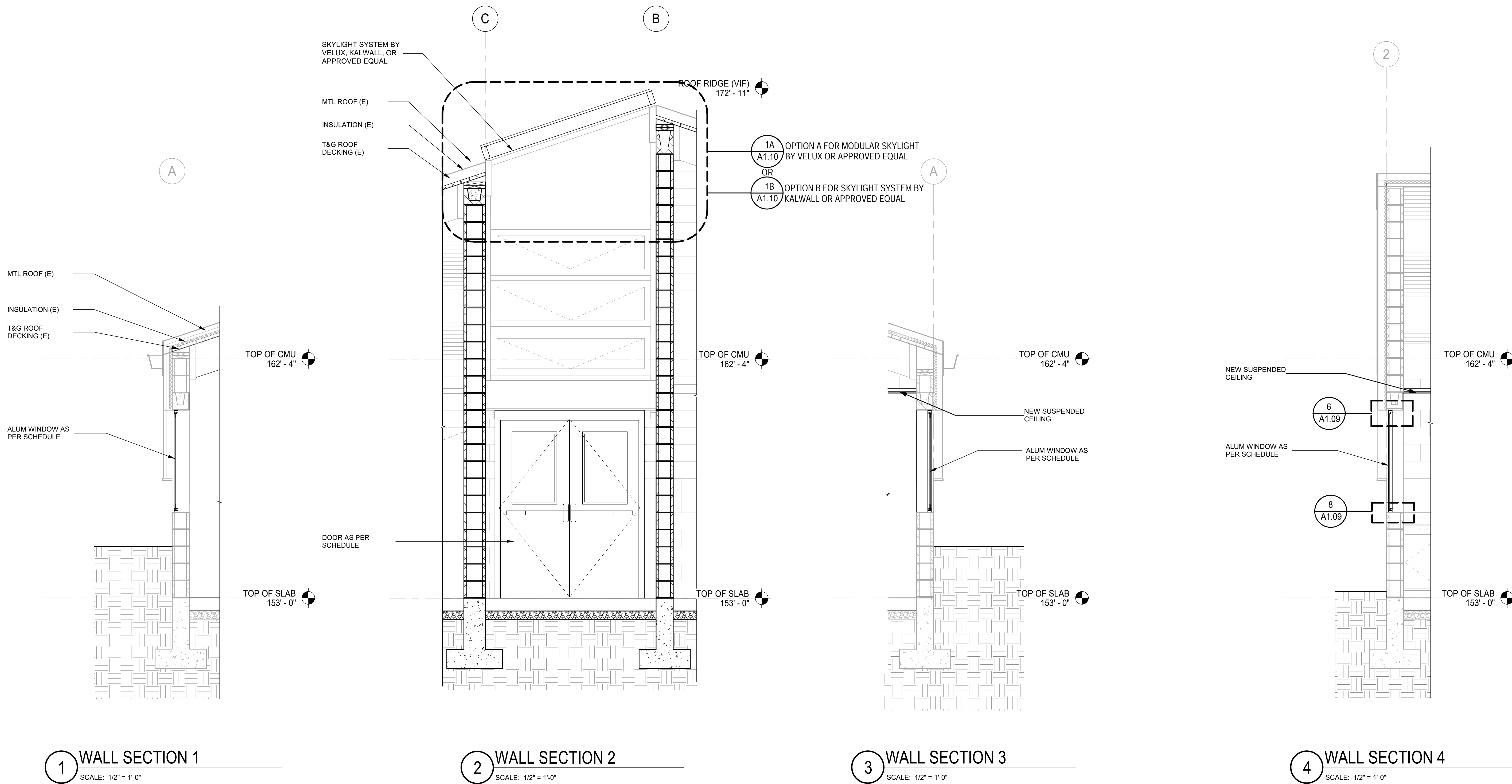
File: COMPLETE

Date: September 2025

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Checked: DS

Scale: 1/2" = 1'-0"

One Inch at Full Scale
If Not One Inch
Scale Accordingly



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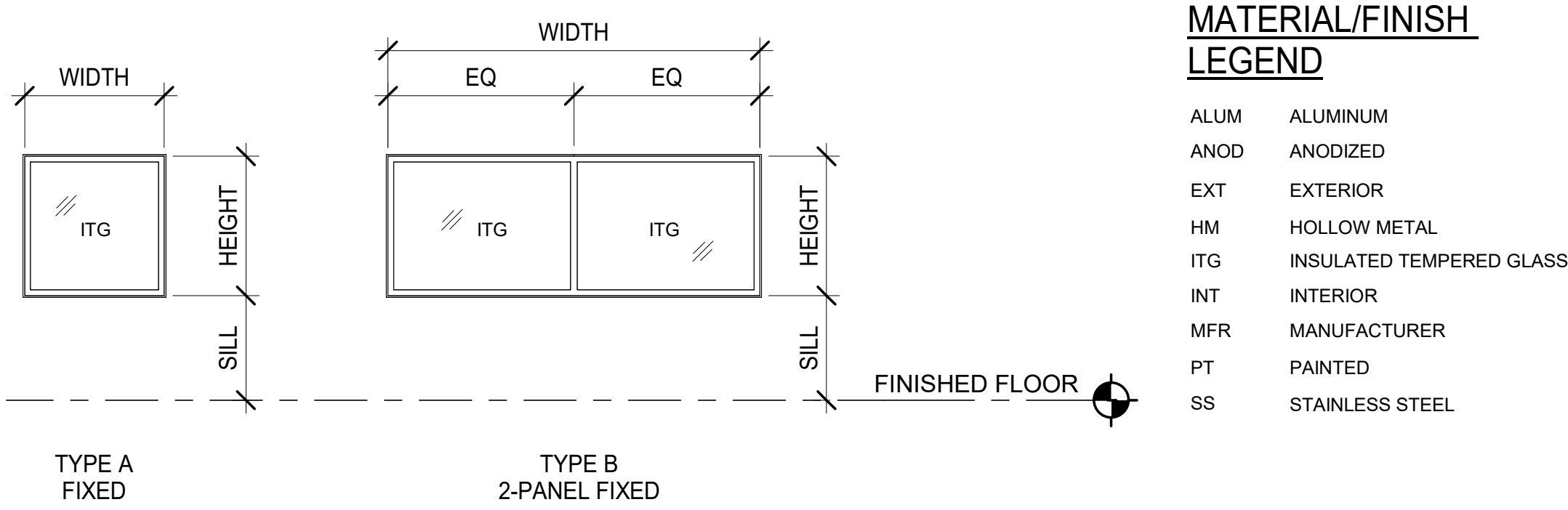
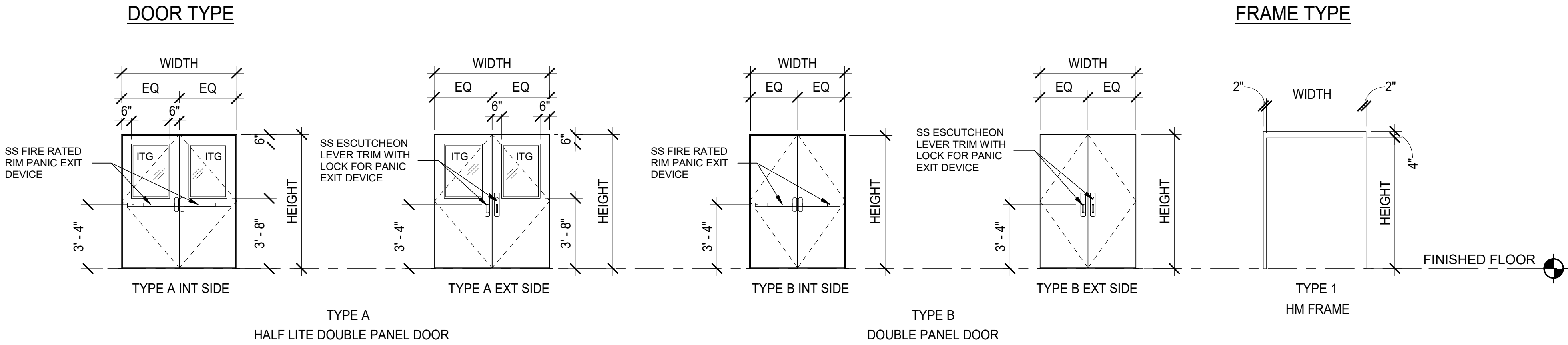
CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING WALL SECTIONS

Drawing: **A1.08**
Sheet: 10 of 47
File: COMPLETE
Date: September 2025

DOOR SCHEDULE																
MARK	DOOR							FRAME			HARDWARE SET	FIRE RATING	DETAILS			COMMENTS
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL	
101	6' - 0"	7' - 0"	1 3/4"	A	HM	PT	ITG	EXISTING	HM	PT	01 (SEE SPECS)		EXISTING	EXISTING	EXISTING	ASTRAGAL, CLOSER (VERIFY & MATCH EXISTING DOOR SIZE)
102	6' - 0"	7' - 0"	1 3/4"	A	HM	PT	ITG	EXISTING	HM	PT	01 (SEE SPECS)	-	EXISTING	EXISTING	EXISTING	ASTRAGAL, CLOSER (VERIFY & MATCH EXISTING DOOR SIZE)
103	5' - 0"	7' - 0"	1 3/4"	B	HM	PT	-	1	HM	PT	01 (SEE SPECS)	2 HR	A6.01 / 3	A6.01 / 4	A6.01 / 5	VERIFY & MATCH EXISTING DOOR OPENING SIZE

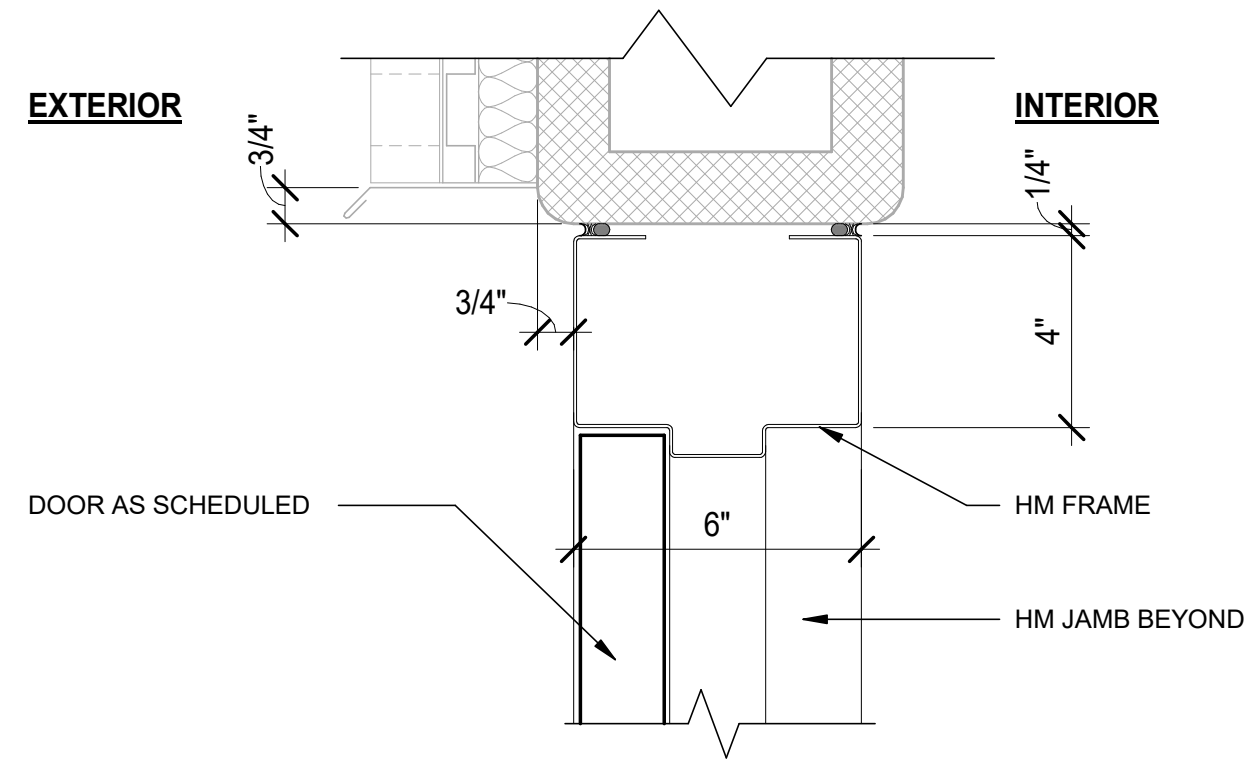
WINDOW SCHEDULE										
MARK	WINDOW						DETAILS			COMMENTS
	TYPE	FRAME MATERIAL	GLAZING	WIDTH	HEIGHT	SILL HEIGHT	HEAD	JAMB	SILL	
101	A	ALUM, MFR ANOD	ITG	4' - 0"	4' - 0"	3' - 4"	A6.01 / 6	A6.01 / 7	A6.01 / 8	
102	A	ALUM, MFR ANOD	ITG	4' - 0"	4' - 0"	3' - 4"	A6.01 / 6	A6.01 / 7	A6.01 / 8	
103	B	ALUM, MFR ANOD	ITG	10' - 8"	4' - 0"	3' - 4"	A6.01 / 6	A6.01 / 7	A6.01 / 8	
104	B	ALUM, MFR ANOD	ITG	10' - 8"	2' - 8"	4' - 8"	A6.01 / 6	A6.01 / 7	A6.01 / 8	
105	B	ALUM, MFR ANOD	ITG	10' - 8"	4' - 0"	3' - 4"	A6.01 / 6	A6.01 / 7	A6.01 / 8	

NOTE: VERIFY AND MATCH EXISTING WINDOW OPENING SIZE



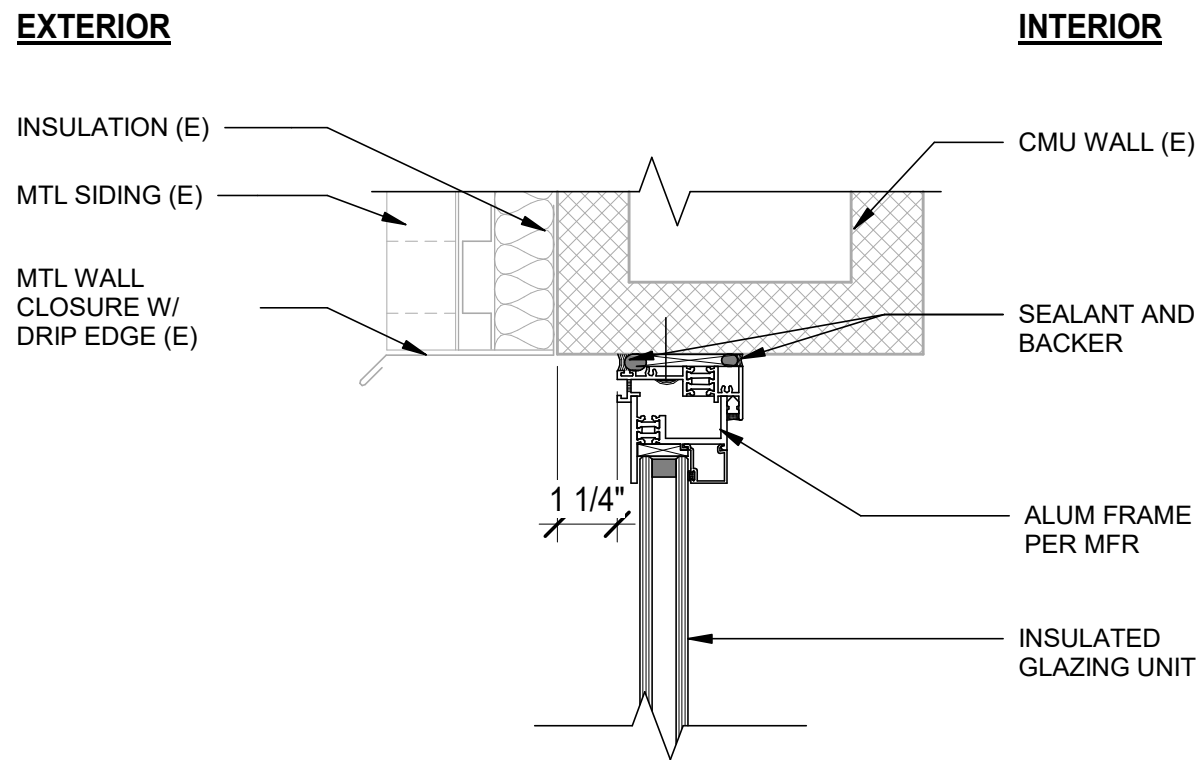
1 DOOR & FRAME TYPES

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



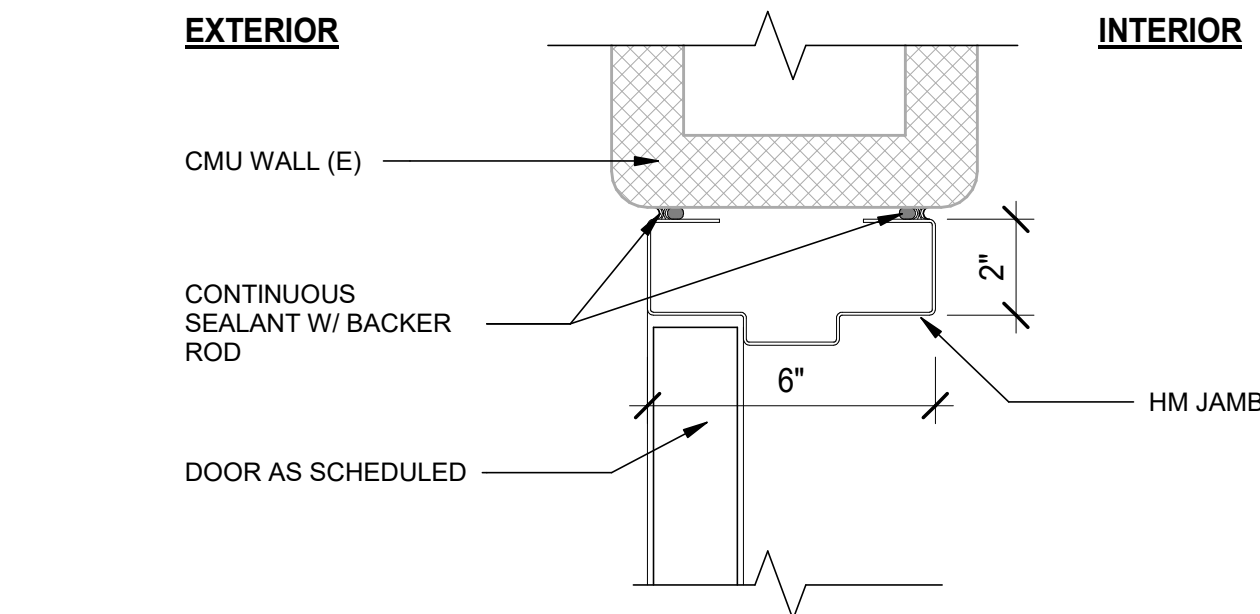
3 EXTERIOR DOOR HEADER

SCALE: 3" = 1'-0"



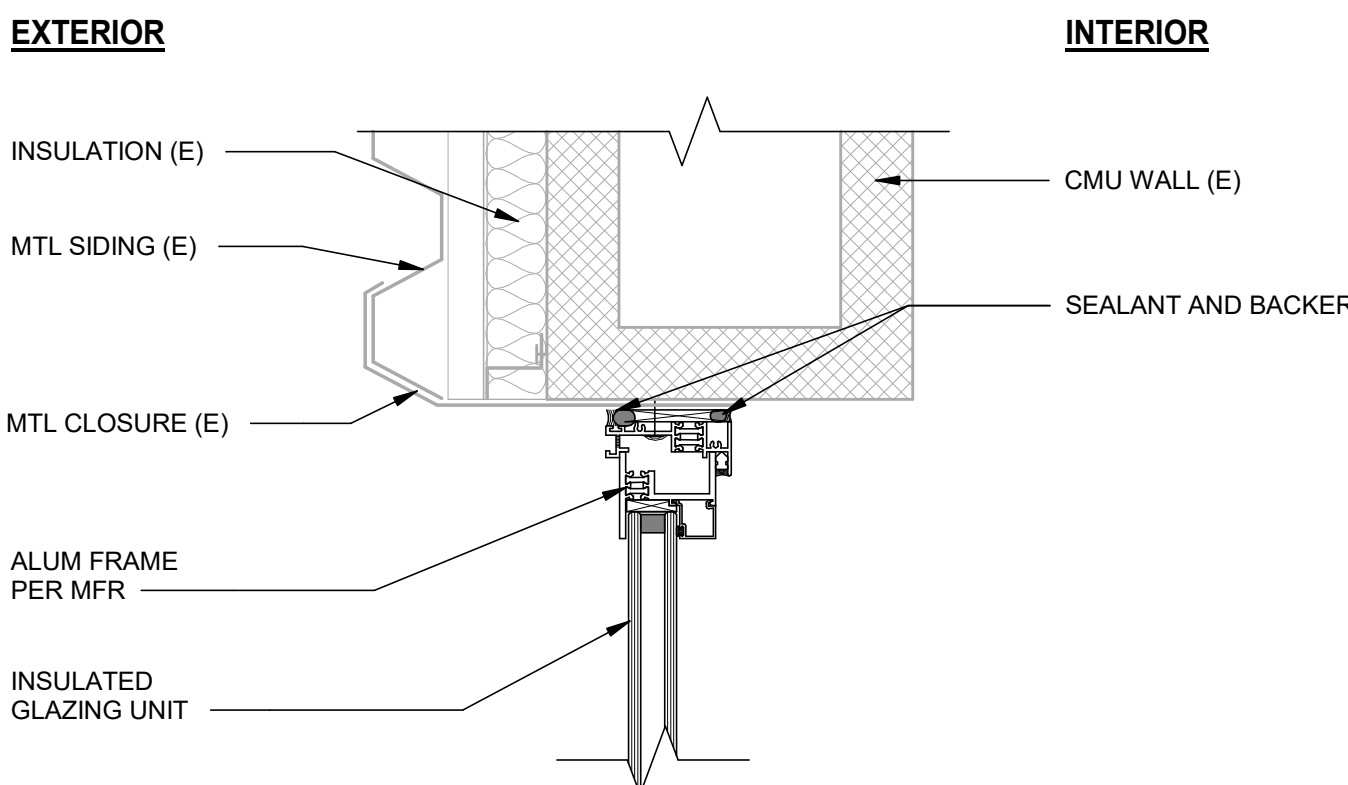
6 EXTERIOR WINDOW HEADER

SCALE: 3" = 1'-0"



4 EXTERIOR DOOR JAMB

SCALE: 3" = 1'-0"

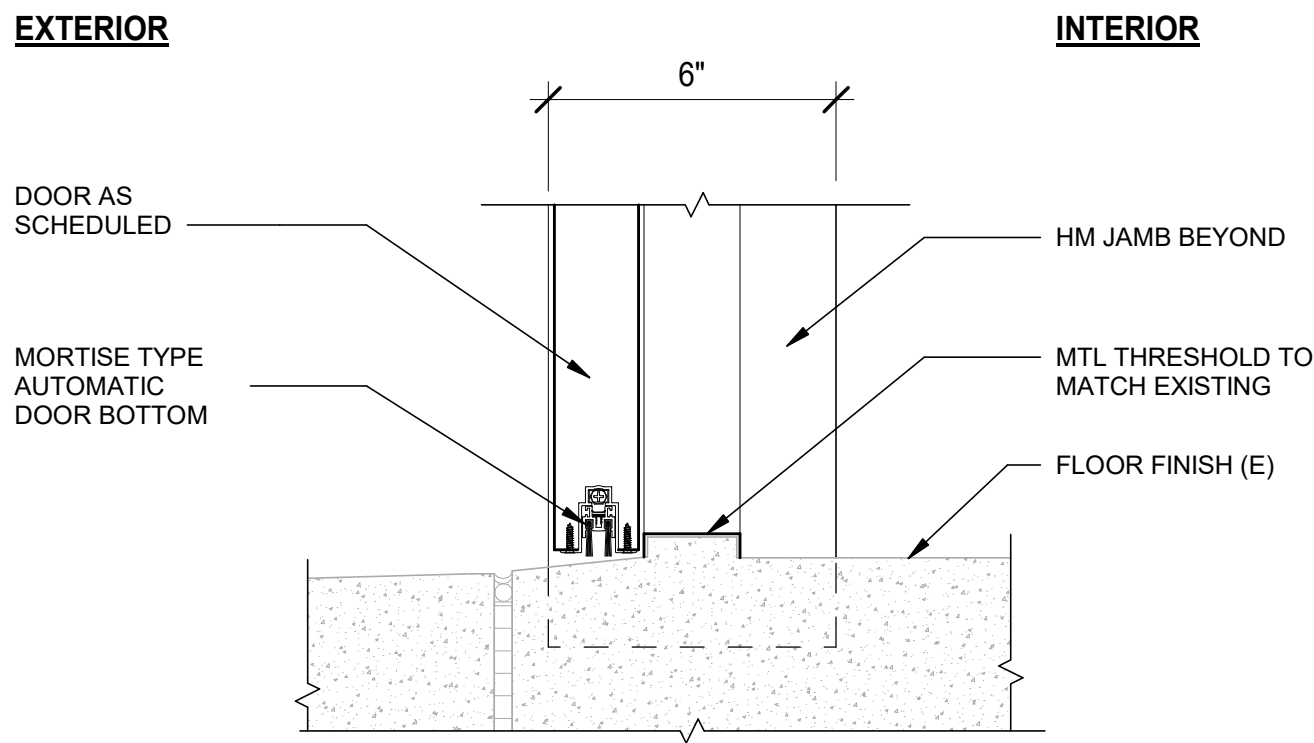


7 EXTERIOR WINDOW JAMB

SCALE: 3" = 1'-0"

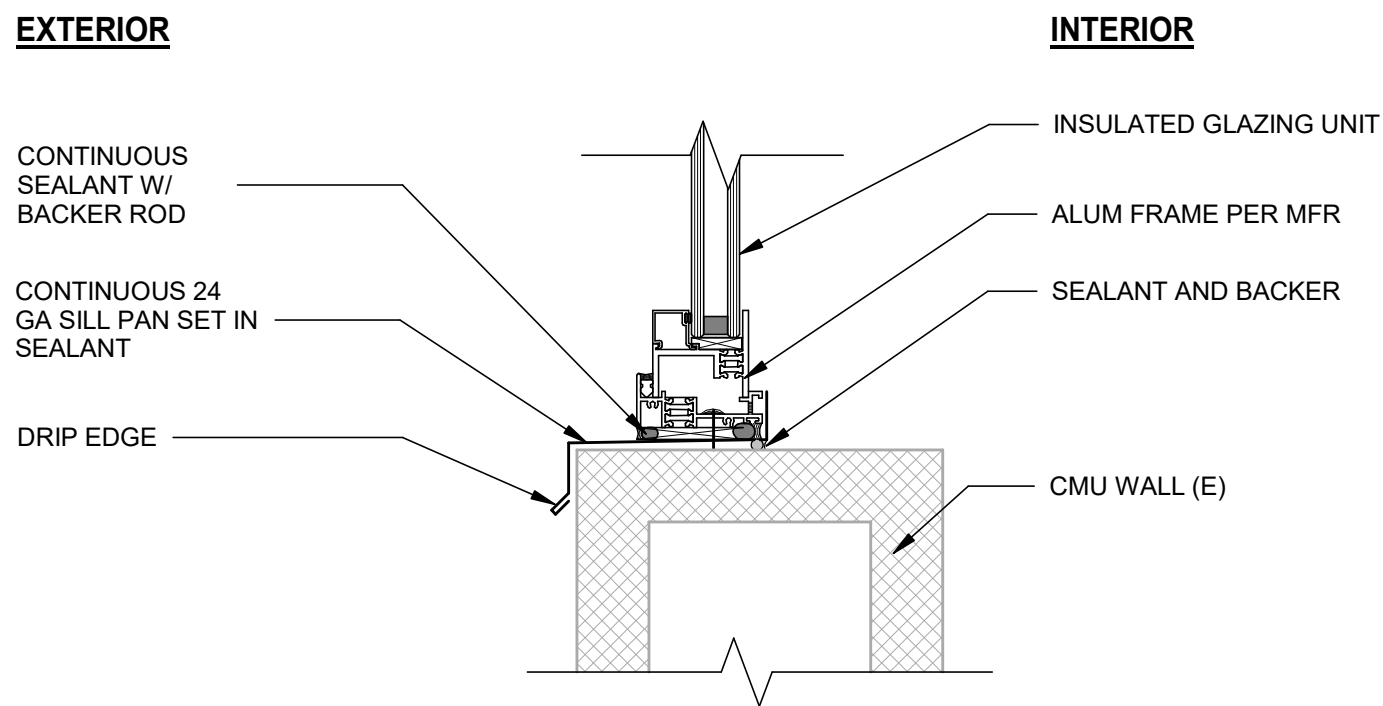
2 WINDOW TYPES

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



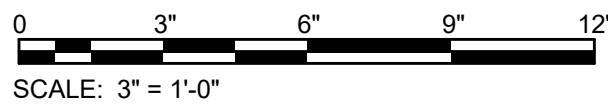
5 EXTERIOR DOOR SILL

SCALE: 3" = 1'-0"



8 EXTERIOR WINDOW SILL

SCALE: 3" = 1'-0"



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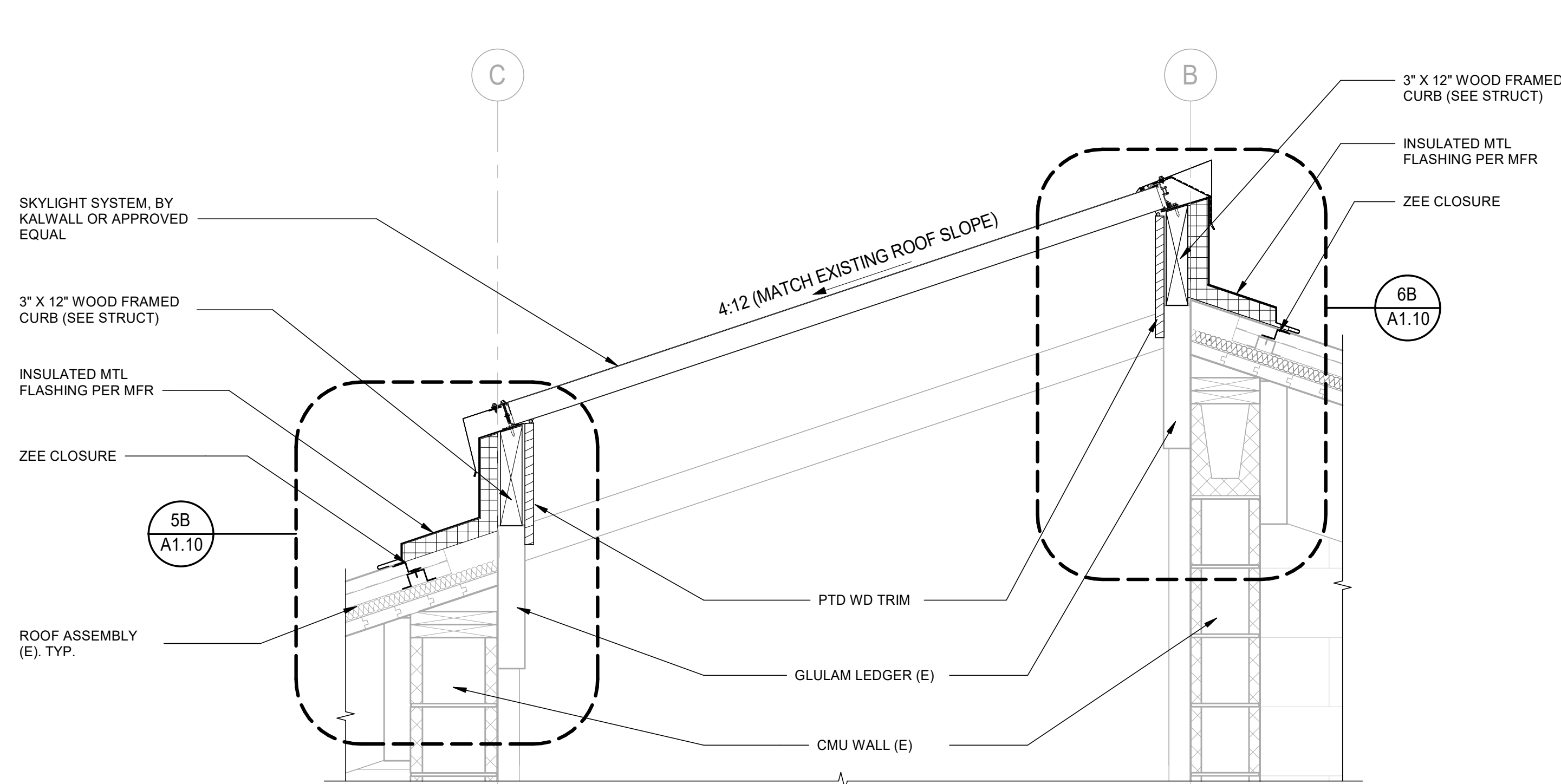
Scale: As indicated
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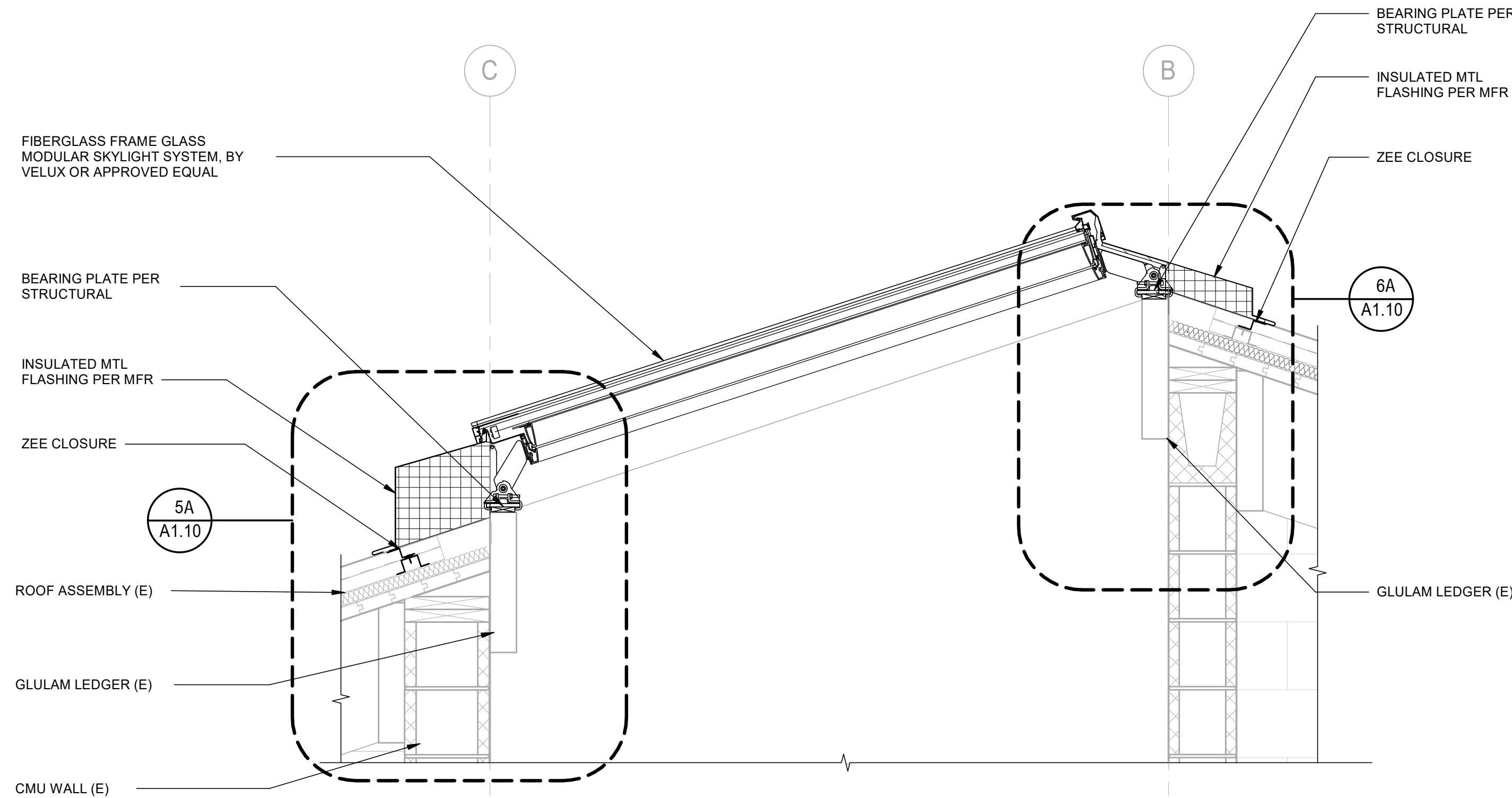
**CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN BUILDING DOOR & WINDOW
SCHEDULES**

Drawing: **A1.09**
Sheet: 11 of 47
File: COMPLETE
Date: September 2025



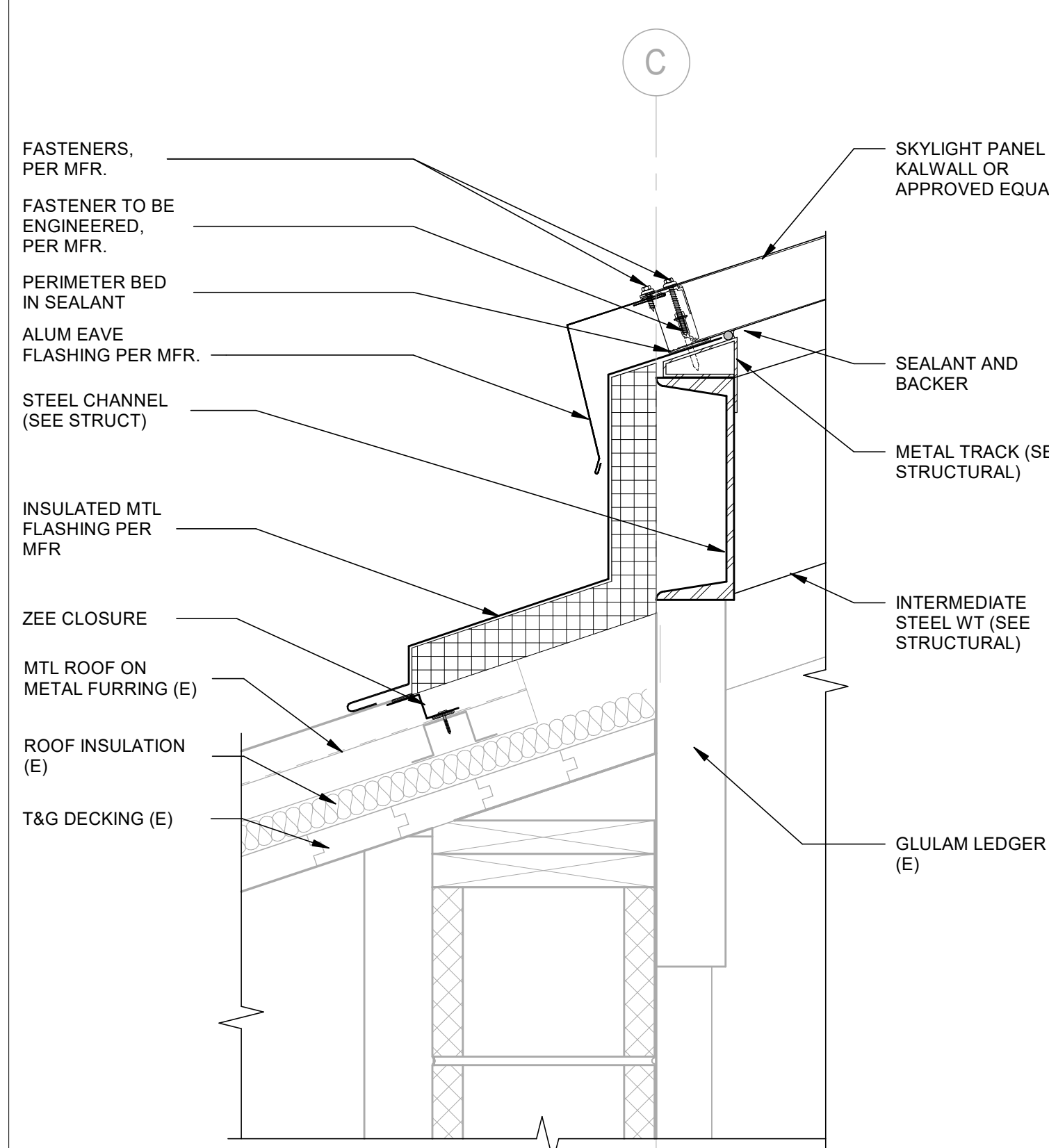
1B SKYLIGHT SECTION - OPTION B

SCALE: 1" = 1'-0"



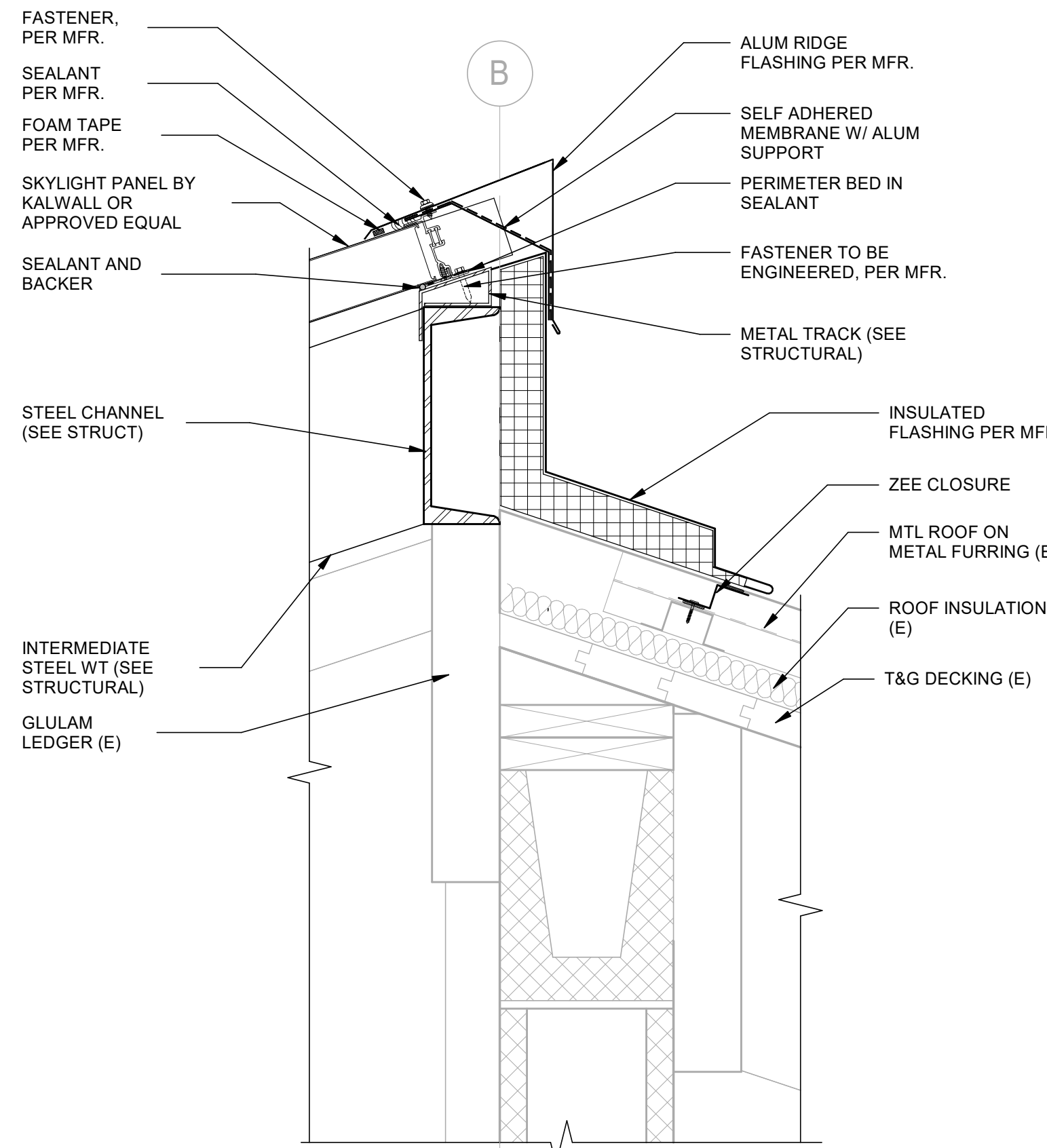
1A SKYLIGHT SECTION - OPTION A

SCALE: 1" = 1'-0"



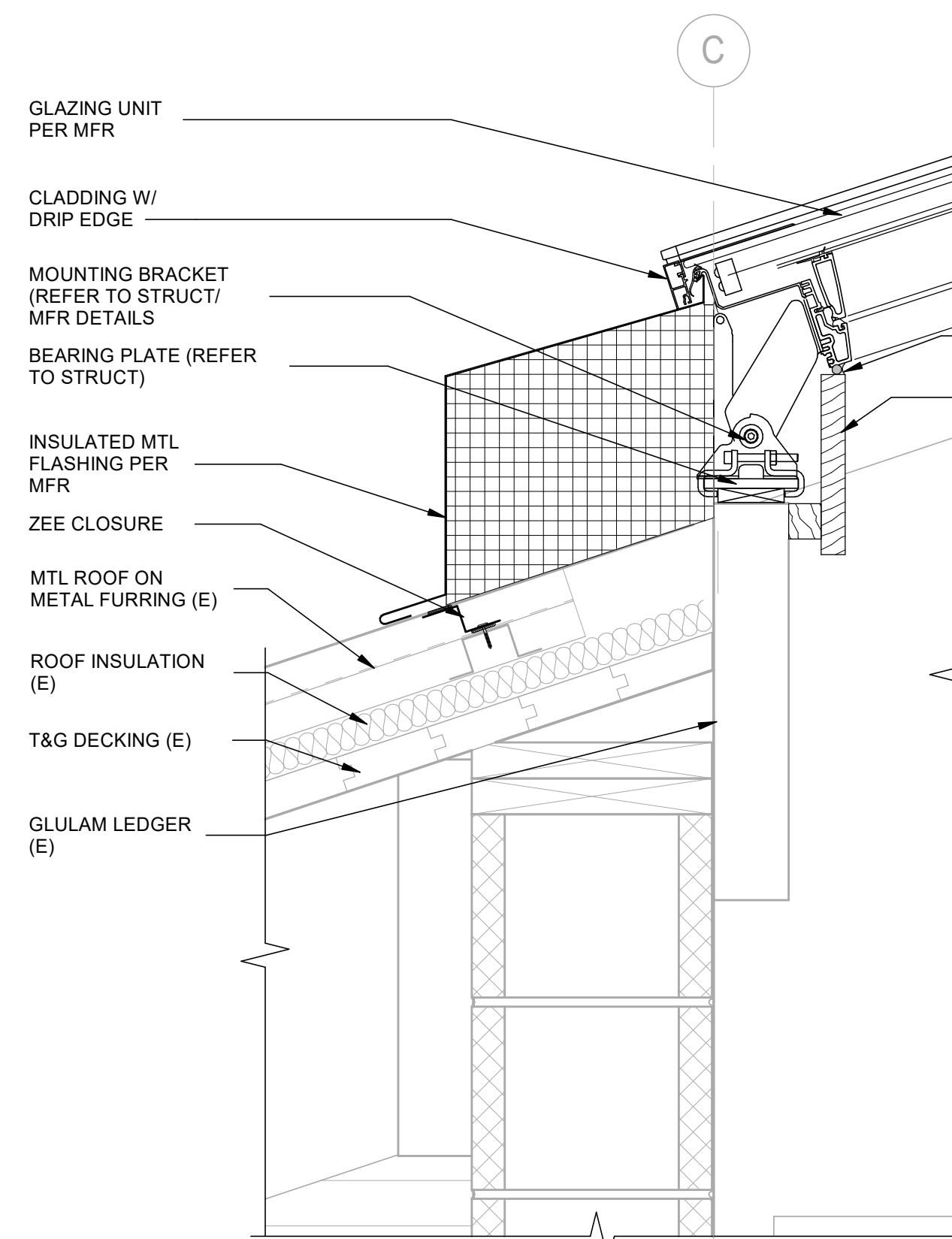
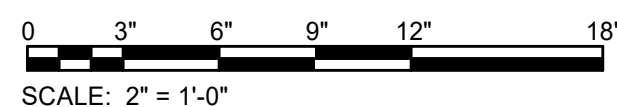
5B SKYLIGHT TO ROOF - OPTION B

SCALE: 2" = 1'-0"



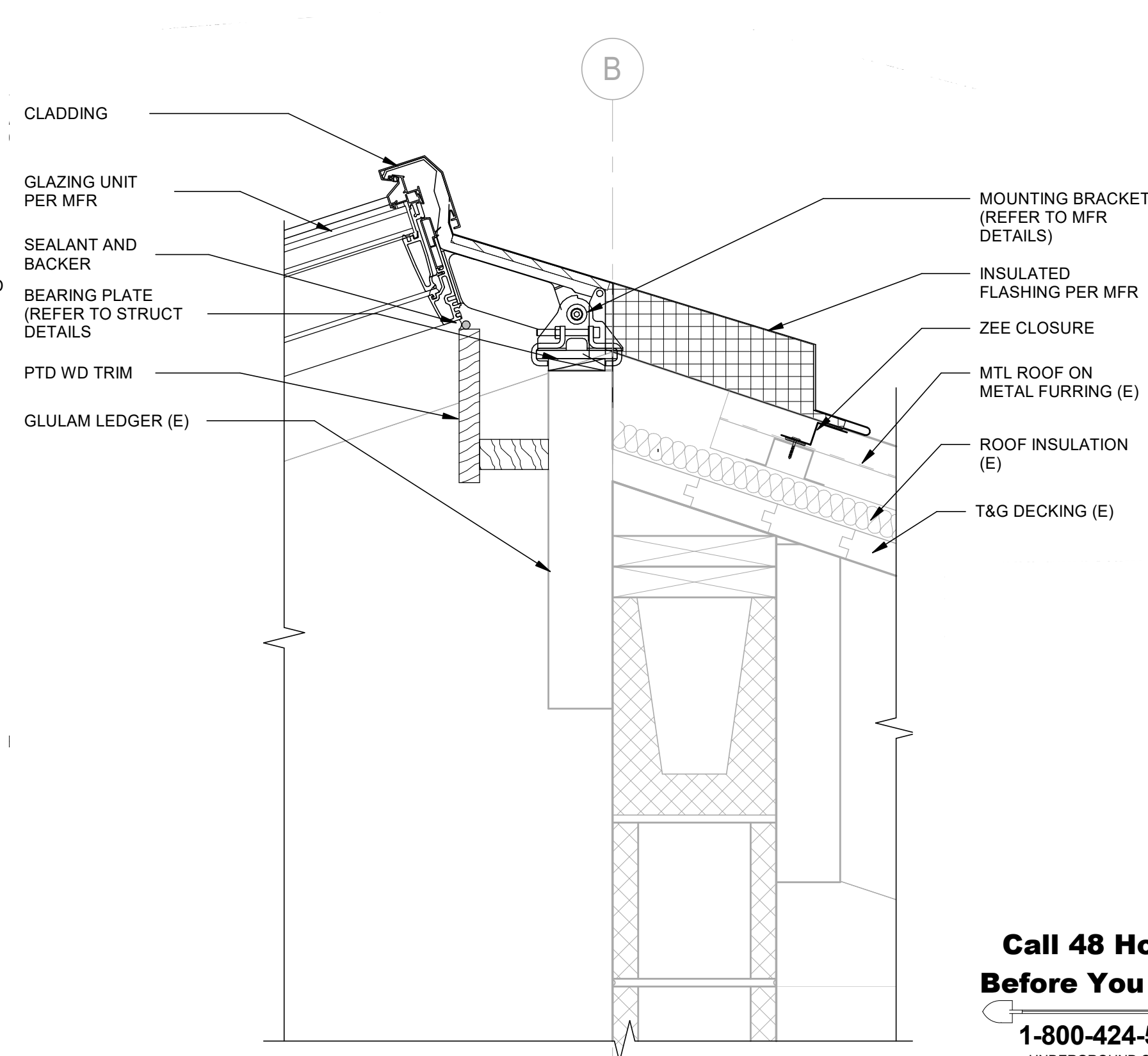
6B SKYLIGHT TO RIDGE - OPTION B

SCALE: 2" = 1'-0"



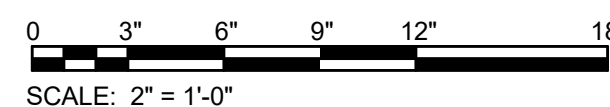
5A SKYLIGHT TO ROOF - OPTION A

SCALE: 2" = 1'-0"



6A SKYLIGHT TO RIDGE - OPTION A

SCALE: 2" = 1'-0"



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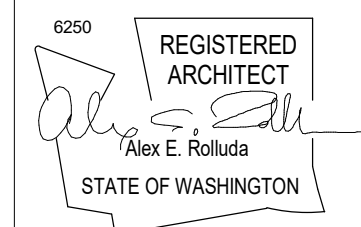


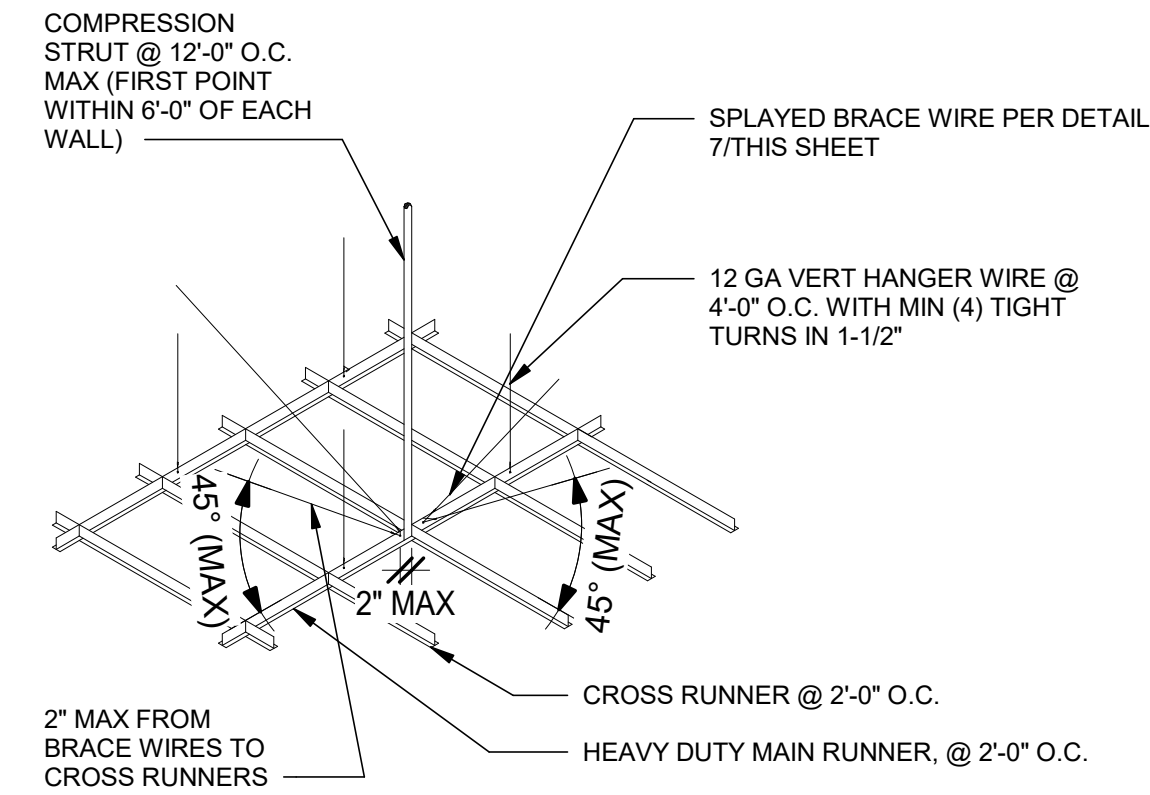
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN SKYLIGHT DETAILS

Drawing: **A1.10**
Sheet: 12 of 47
File: COMPLETE
Date: September 2025

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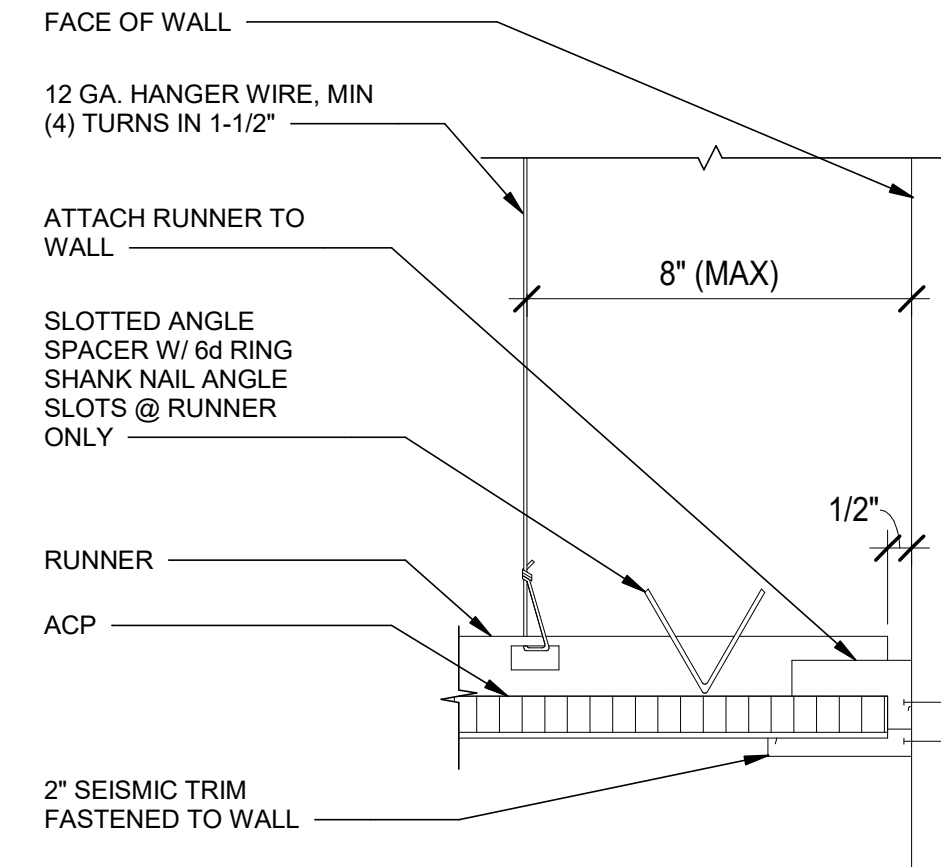




SEE DETAIL 11 - THIS SHEET FOR WIRE ATTACHMENT TO STRUCTURE

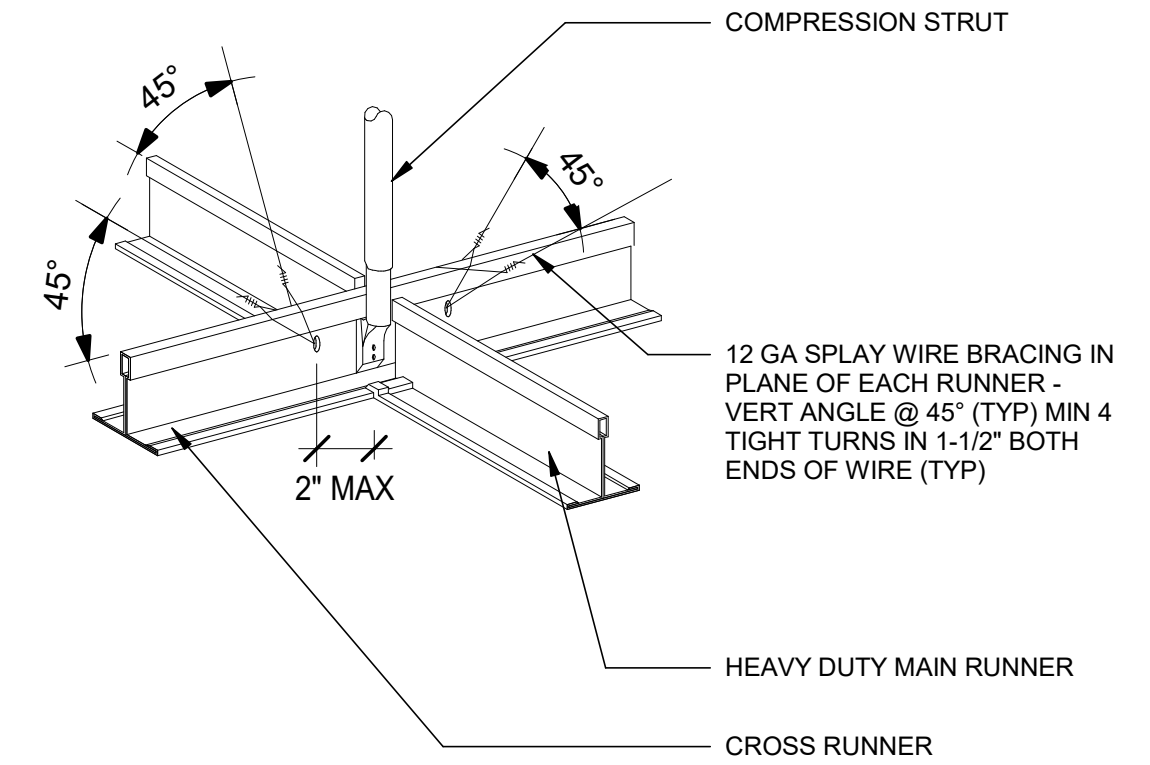
1 TYPICAL ACP GRID LAYOUT

SCALE: 1 1/2" = 1'-0"



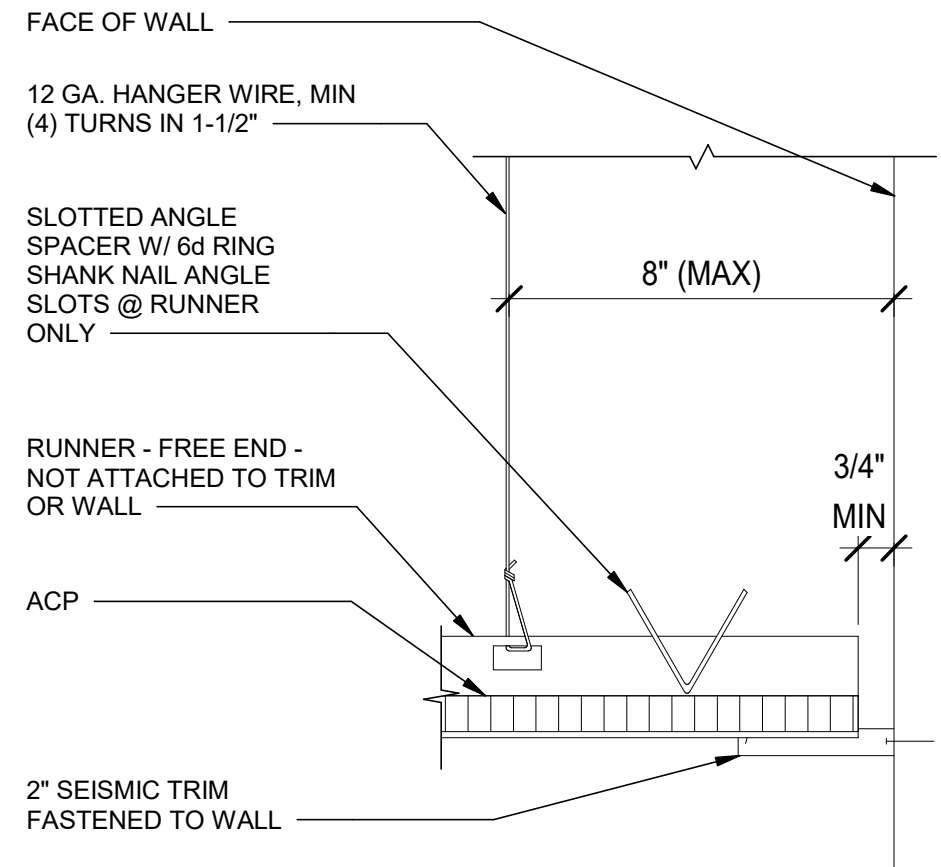
2 ACP CEILING TO WALL - ATTACHED END, TYP.

SCALE: 3" = 1'-0"



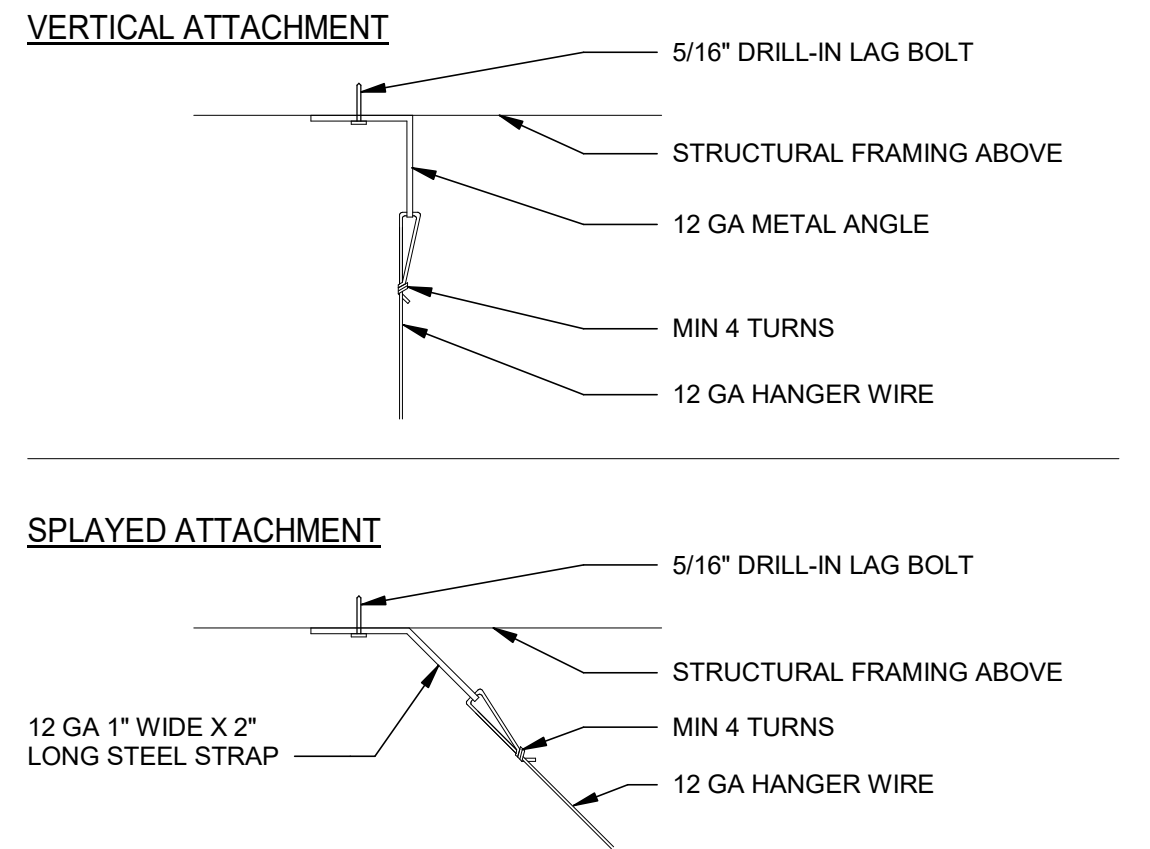
3 TYPICAL ACP CEILING BRACING

SCALE: 1 1/2" = 1'-0"



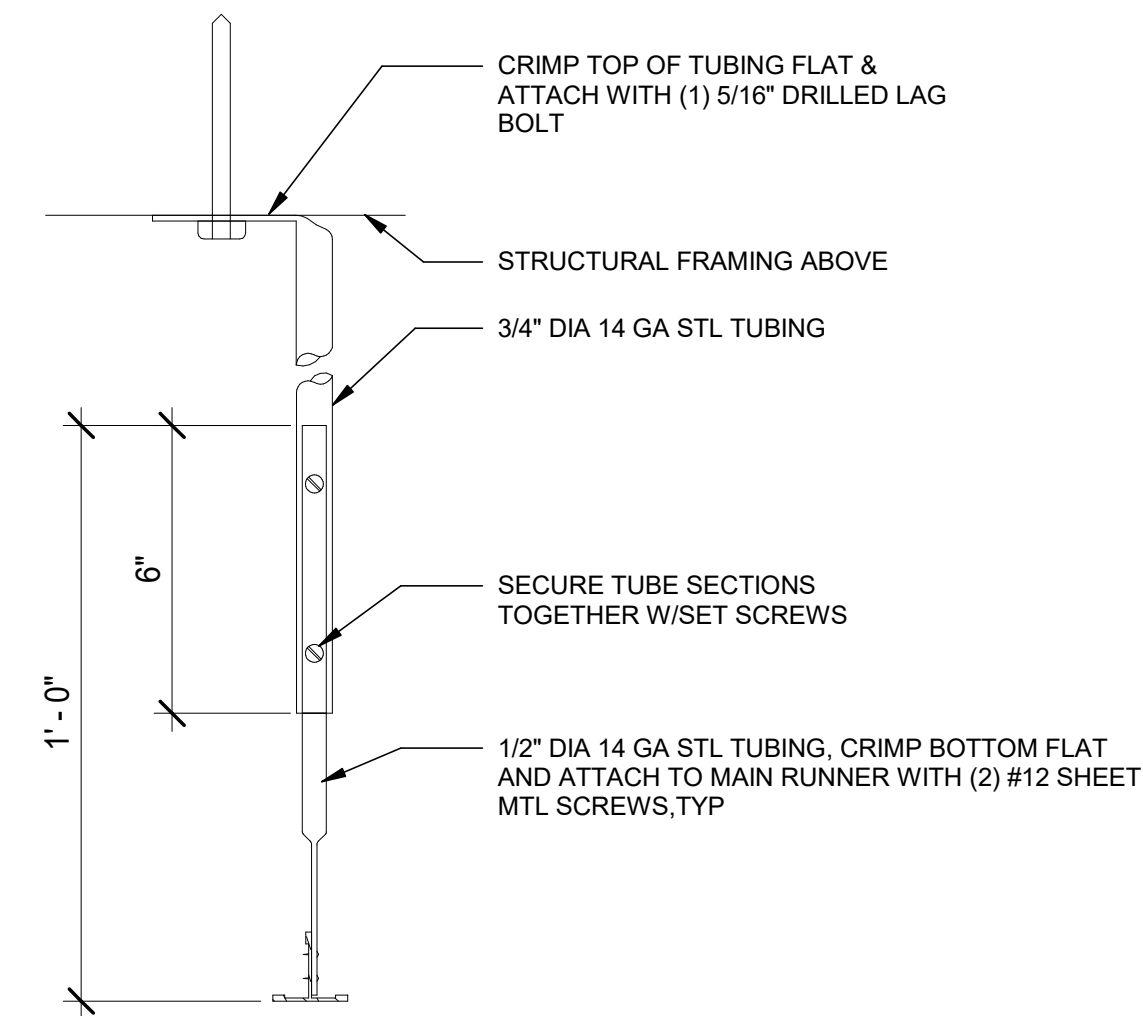
4 ACP CEILING TO WALL - FREE END, TYP.

SCALE: 3" = 1'-0"



5 HANGER WIRE ATTACHMENT, TYP.

SCALE: 3" = 1'-0"



6 ACP COMPRESSION STRUT, TYP.

SCALE: 3" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

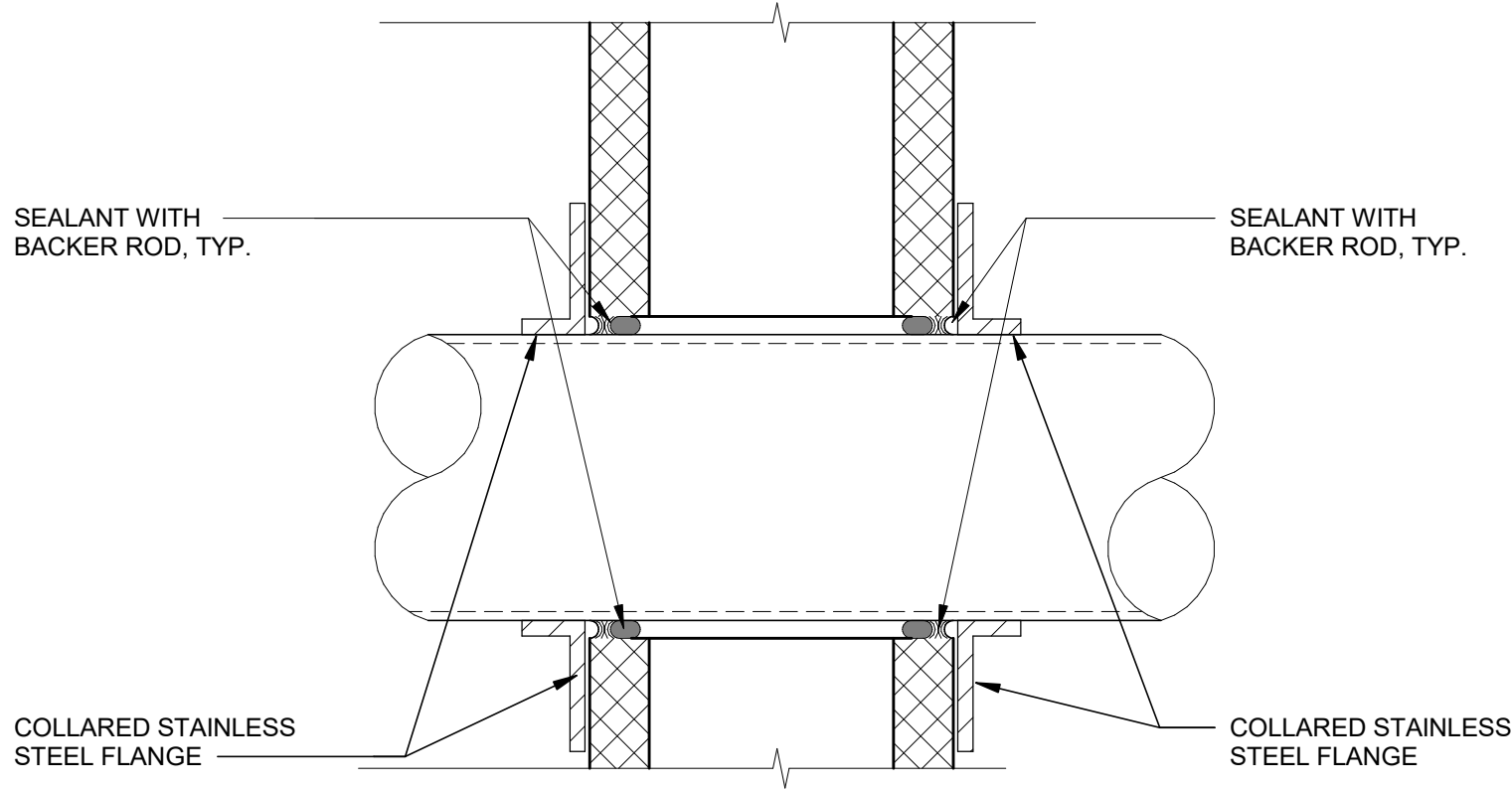
LAB-ADMIN BUILDING CEILING DETAILS

Drawing: **A1.11**

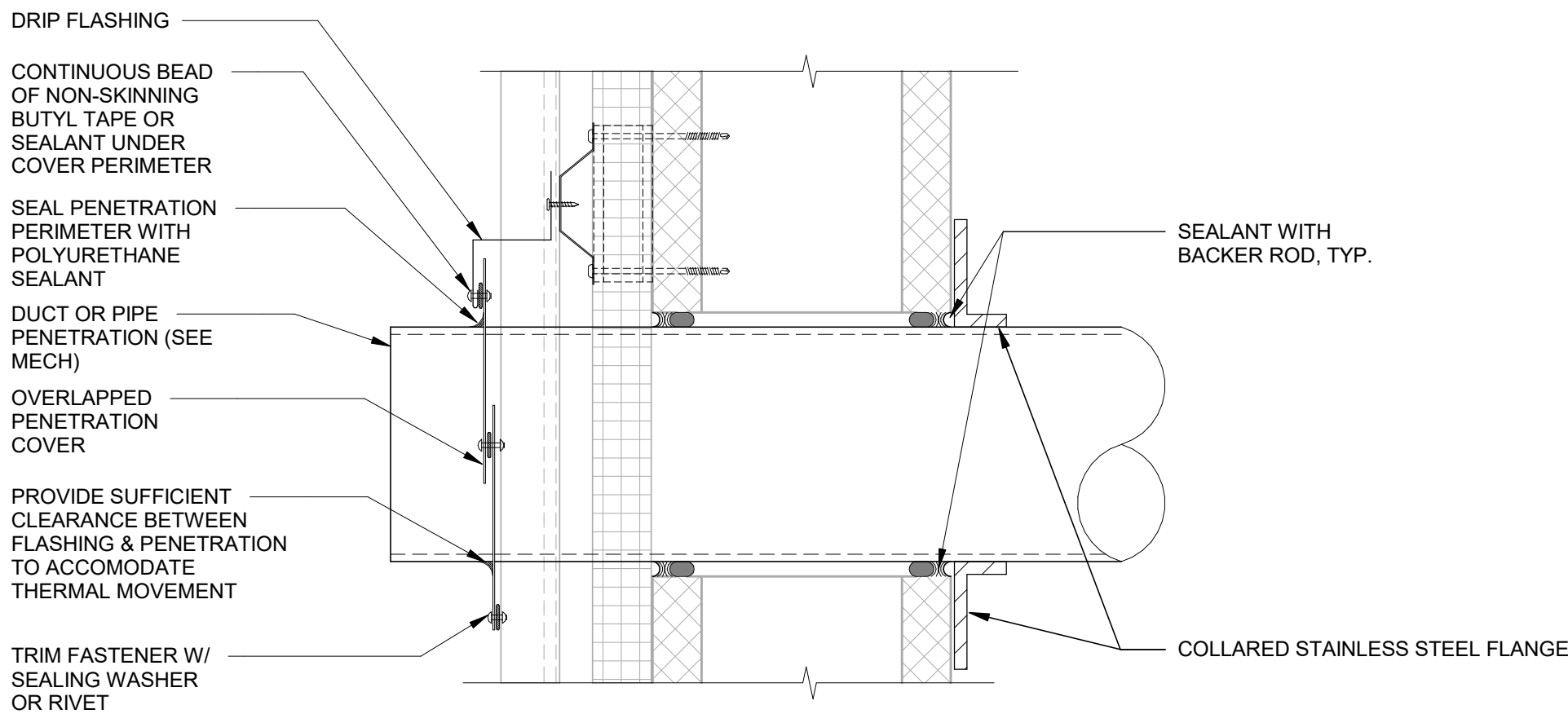
Sheet: 13 of 47

File: COMPLETE

Date: September 2025



1 TYP. INT. WALL PENETRATION DETAIL
SCALE: 3" = 1'-0"



2 TYP. EXT. WALL PENETRATION DETAIL
SCALE: 3" = 1'-0"



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Scale: 3" = 1'-0"

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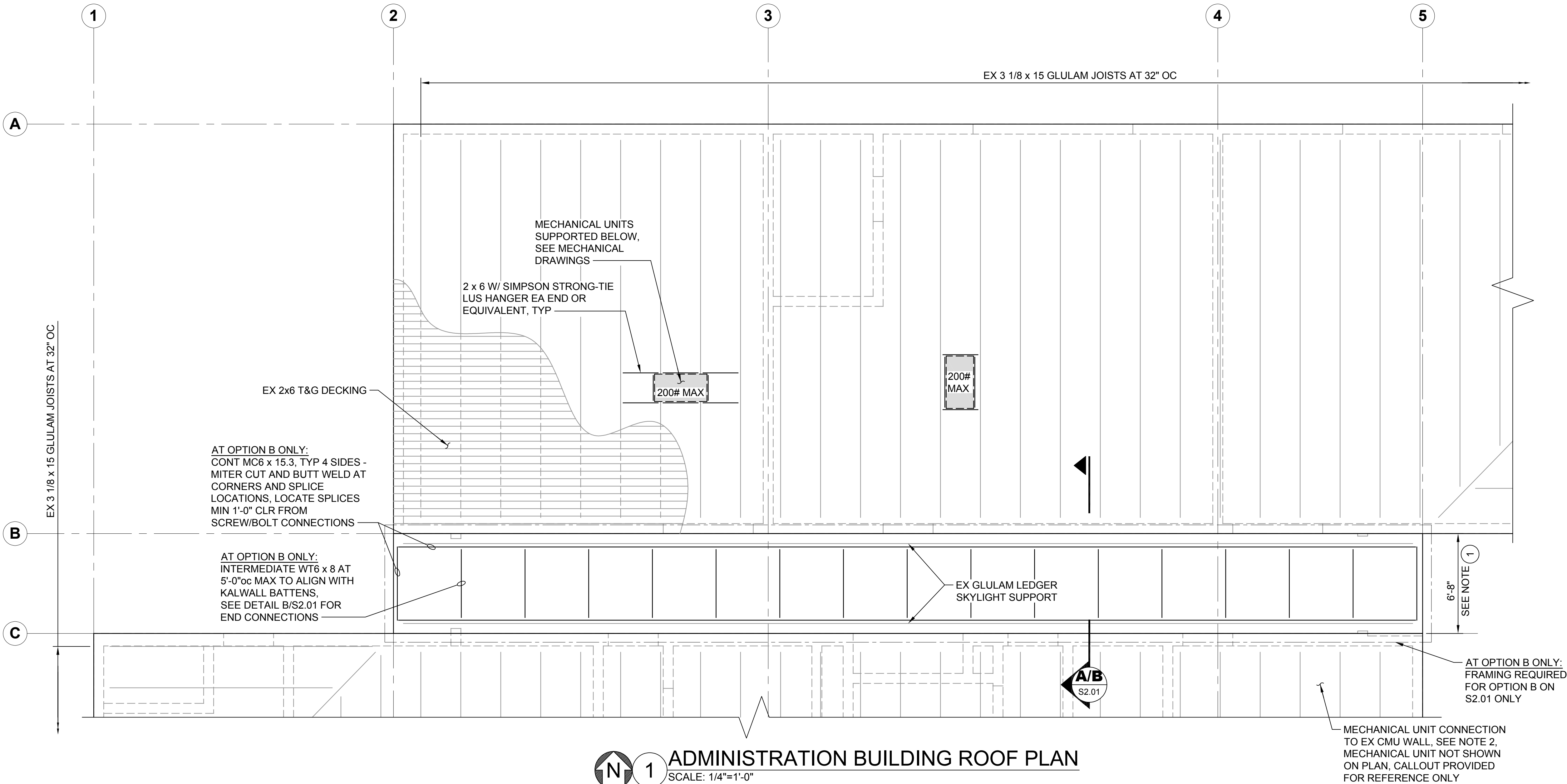


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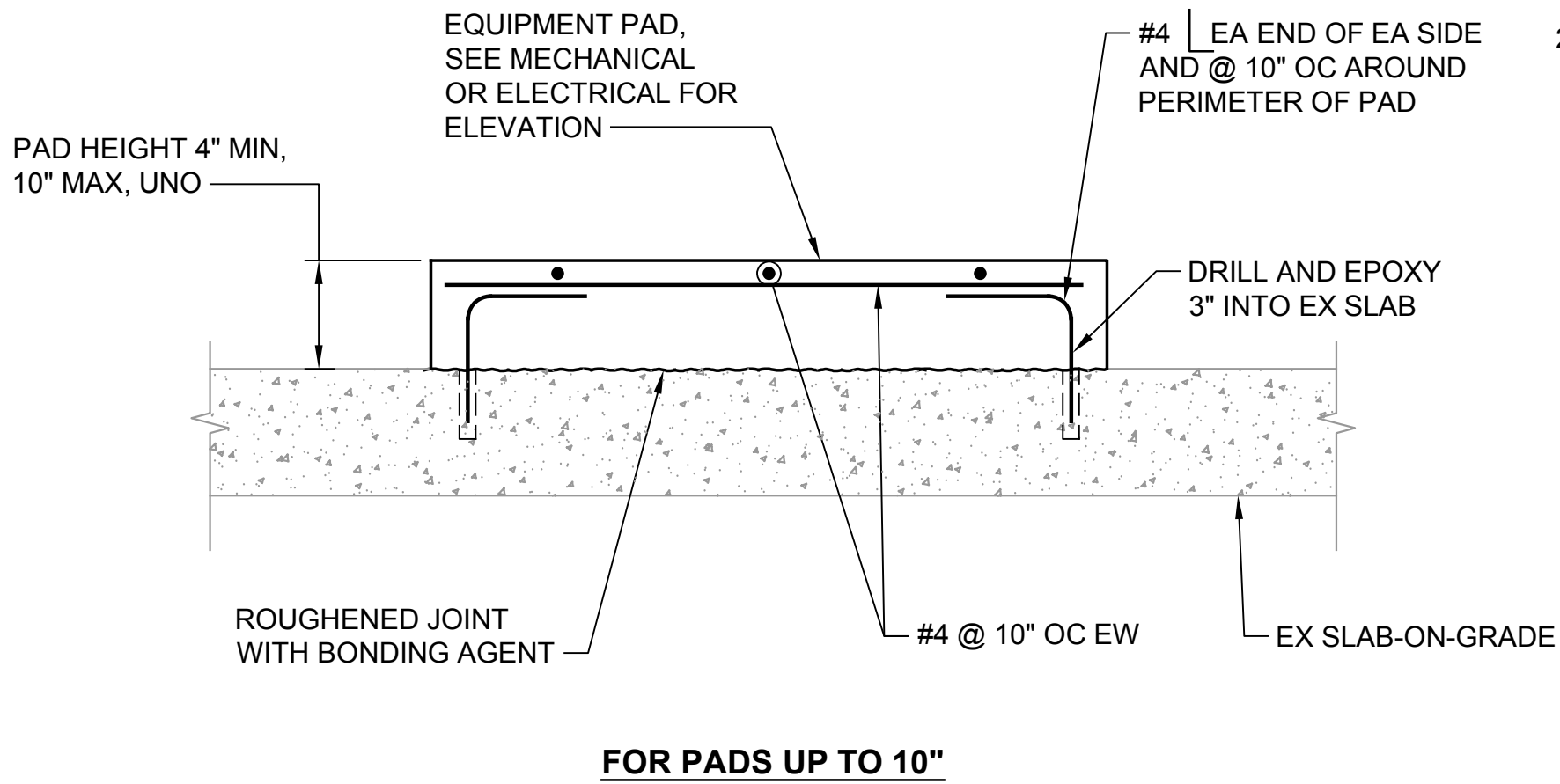
CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES
LAB-ADMIN TYPICAL PENETRATION
DETAILS

Drawing: **A1.12**
Sheet: 14 of 47
File: COMPLETE
Date: September 2025

Path: S:\Cad\Kitsap County\23-10865 CKTP HVAC System Repl'd File\name: P23-10865_S1.01 Plot date: Sep 18, 2025 02:35:31pm CAD User: rhodes
Xref Filename: \X23-10865_Prop Roof Lab-Admin Building_Floor Plan \X23-10865_TB-FSI_24x36 | Datt | X23-10865_Status | Palmatter | Jacoby |



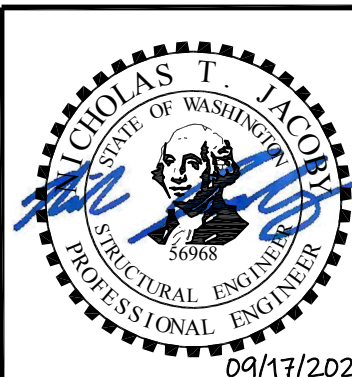
- CONSTRUCTION NOTES:**
- 1 FIELD VERIFY ALL DIMENSIONS TO EXISTING STRUCTURE.
 - 2 SEE HVAC DRAWINGS FOR MECHANICAL UNIT MOUNTED TO EXISTING CMU WALL.
- SECURE MECHANICAL UNIT WITH SUPPORT BRACKETS ANCHORED TO EXISTING CMU WALL WITH 1/2" DIAMETER SIMPSON STRONG TIE SET-3G ADHESIVE ANCHORS (ESR-4047) OR APPROVED ALTERNATIVE. PROVIDE A MINIMUM OF 2 ANCHORS PER BRACKET WITH 3 1/2" MINIMUM EFFECTIVE EMBEDMENT, INTO FULLY GROUTED CMU BLOCKS. DO NOT DAMAGE EXISTING CMU REINFORCING STEEL. ANCHORS ARE NOT ALLOWED IN HEAD JOINTS.
- EACH EPOXY ANCHOR HAS BEEN DESIGNED FOR MAXIMUM ALLOWABLE TENSILE LOAD OF 500LB - 1,000LB EACH BRACKET.
- SUBMIT SUPPORT BRACKET DESIGN TO EOR FOR REVIEW AND APPROVAL.



- NOTES:**
1. PROVIDE EQUIPMENT PADS FOR ALL EQUIPMENT UNLESS NOTED OTHERWISE.
 2. PROVIDE EQUIPMENT PAD DIMENSIONS, HEIGHT, AND LOCATIONS AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. VERIFY EQUIPMENT PAD DIMENSIONS, HEIGHT AND LOCATION WITH THE EQUIPMENT MANUFACTURER'S REVIEWED SHOP DRAWINGS BEFORE THE PAD IS INSTALLED.

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Drawn: R. Rhodes	One Inch at Full Scale If Not One Inch Scale Accordingly
Checked: N. Jacoby, P.E., S.E.	



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KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ADMINISTRATION BUILDING ROOF PLAN AND DETAIL

Drawing:	S1.01
Sheet:	16 of 47
File:	P23-10865_S1.01
Date:	September 2025



Drawing:	S2.01
Sheet:	17 of 47
File:	P23-10865_S2.01
Date:	September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: M0.01 Plot Date: Sep 24, 2025-12:46:35pm CAD User: lmo.

GENERAL ABBREVIATIONS

ADDN	ADDITION, ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AUX	AUXILIARY
BAL	BALANCING
BLDG	BUILDING
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CL	CENTERLINE
COND	CONDENSATE
COL	COLUMN
CONN	CONNECT; CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS; CONTINUATION
COORD	COORDINATE
DEG	DEGREE
DIA	DIAMETER
DIFF	DIFFERENTIAL
DIM	DIMENSION
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DR	DRAIN
DWG	DRAWING
EA	EACH
EFF	EFFICIENCY
ELEC	ELECTRICAL ENGINEER
ELEV	ELEVATION; ELEVATOR
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ENT	ENTERING
EQ	EQUAL
EQUIP	EQUIPMENT
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX, (E)	EXISTING
EXP	EXPOSED
EXPL	EXPLOSION
F	FAHRENHEIT
FIO	FURNISHED & INSTALLED BY OWNER
FLEX	FLEXIBLE
FLR	FLOOR
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FP	FIRE PROTECTION; FREEZE PROTECTION
FT	FEET; FOOT; FEET OF WATER(PRESS)
GA	GAGE; GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GEN	GENERAL
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALLBOARD
H	HEIGHT; HIGH
HOA	HAND OFF AUTOMATIC
HOR	HORIZONTAL
HP	HORSE POWER
HR	HOUR
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IFC	INTERNATIONAL FIRE CODE
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH
INFO	INFORMATION
INSUL	INSULATE; INSULATION
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH; LONG (DIM)
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LBS/HR	POUNDS PER HOUR
LF	LINEAL FEET
LO	LOW
LTG	LIGHTING
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE

HVAC ABBREVIATIONS

AL	ACOUSTIC LINED; ALUMINUM
AC	AIR CONDITIONING
AD	AUTOMATIC DAMPER
AF	AIR FOIL
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BOD	BOTTOM OF DUCT
C	CONDENSATE; COMMON
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CABINET HEATER
CLG	COOLING
CV	CONSTANT VOLUME
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DMPR	DAMPER
DB	DRY BULB TEMPERATURE(°F)
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EXH	EXHAUST
FA	FACE AREA
FD	FIRE DAMPER
FF	FINAL FILTER
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FV	FACE VELOCITY
GALV	GALVANIZED
GR	GRILLE
H	HUMIDIFIER, HUMIDISTAT
HC	HEATING COIL
HTG	HEATING
HV	HEAT AND VENT UNIT
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
IMC	INTERNATIONAL MECHANICAL CODE
LAT	LEAVING AIR TEMPERATURE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
ODP	OPEN DRIPPROOF
OSA	OUTSIDE AIR
OV	OUTLET VELOCITY
PF	PREFILTER
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION (GAS)
RH	RELATIVE HUMIDITY
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
S	SUPPLY
SP	STATIC PRESSURE
SD	SUPPLY DIFFUSER
SA	SUPPLY AIR; SOUND ATTENUATOR
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
SS	SPLIT SYSTEM

T, TSTAT	THERMOSTAT
TEFC	TOTALLY ENCLOSED, FAN COOLED
TG	TRANSFER GRILLE
UMC	UNIFORM MECHANICAL CODE
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VSD	VARIABLE SPEED DRIVE
VENT	VENTILATE; VENTILATION
VD	VOLUME DAMPER
WG	WALL GRILLE; WATER GAGE
WSEC	WASHINGTON STATE ENERGY CODE
WB	WET BULB TEMPERATURE(°F)

GENERAL LEGEND

	NORTH ARROW
	DETAIL/DRAWING REFERENCE
	SECTION REFERENCE
	CONSTRUCTION NOTE
	REVISION SYMBOL
	POINT OF CONNECTION
	BOLD LINE WEIGHT INDICATES NEW WORK
	LIGHT LINE WEIGHT INDICATES EXISTING WORK
	SLASHED LINE INDICATES EXISTING WORK TO BE DEMOLISHED

HVAC DUCTWORK LEGEND

SINGLE LINE DUCTWORK INDICATES VIEW
DIMENSION LESS THAN 12 INCHES

	SUPPLY OR EXHAUST TAKEOFF
	SUPPLY DUCT TURNING TOWARD
	SUPPLY DUCT TURNING AWAY
	EXHAUST DUCT TURNING TOWARD
	EXHAUST DUCT TURNING AWAY
	ROUND DUCT TURNING TOWARD
	ROUND DUCT TURNING AWAY
	TRANSITION
	SMOKE DAMPER
	MOTORIZED DAMPER
	VOLUME DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
	FLEXIBLE CONNECTION
	TURNING VANES
	FLEXIBLE DUCT
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	THERMOSTAT
	EQUIPMENT TAG
	DIFFERENTIAL PRESSURE SENSOR
	CARBON DIOXIDE SENSOR

HVAC PIPING LEGEND

	PIPING IDENTIFIER, SEE ABBREVIATIONS
	ELBOW DOWN
	ELBOW UP
	TEE
	TEE DN
	TEE UP
	ISOLATION OR SHUT-OFF VALVE (NO), TYPE AS SPECIFIED
	ISOLATION OR SHUT-OFF VALVE (NC), TYPE AS SPECIFIED
	CHECK VALVE
	ISOLATION OR SHUT-OFF VALVE (NO), TYPE AS SPECIFIED
	ISOLATION OR SHUT-OFF VALVE (NC), TYPE AS SPECIFIED
	PRESSURE REDUCING VALVE
	CAP
	REDUCER

GENERAL CONSTRUCTION NOTES

- PLANS ARE DIAGRAMMATIC AND DO NOT SHOW ALL BRANCHES, VALVES, SPECIALTIES AND EQUIPMENT.
- ALL PIPING, VALVES AND EQUIPMENT ARE TO BE REMOVED IN DEMOLITION AREAS.
- VALVES INDICATED FOR SHUT-OFF ISOLATION ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO REFERENCED BLDG. DRAWINGS FOR DETAILED SYSTEMS.
- FIELD VERIFY EXACT LOCATIONS VALVES, EQUIPMENT AND PIPING.
- CONTRACTOR TO VERIFY SYSTEM SHUT DOWN PRIOR TO ANY REMOVAL WORK.
- CONTRACTOR TO RE-OPEN VALVES AFTER COMPLETION OF REMOVAL, CAP, & CUT TO RESTORE SYSTEM OPERATION WHERE REQUIRED.
- SYSTEM SHUT DOWN REMOVAL, CUT & CAP SHALL ONLY BEGIN AFTER NEW, RE-ROUTED SYSTEM IS IN PLACE FOR SERVICE CONTINUITY WHERE REQUIRED.
- ALL SYSTEMS SHALL BE DRAINED AND DISPOSAL OF FLUIDS HANDLED AS REQUIRED PER OWNER'S STANDARDS.
- MECHANICAL DRAWINGS SHOW DISCONNECT AND RECONNECT POINTS AT THE PROJECT'S BOUNDARIES. AN ATTEMPT WAS MADE TO SHOW MAJOR MECHANICAL UTILITY WORK WITHIN THE PROJECT'S BOUNDARIES. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DISPOSAL OF ALL MECHANICAL WORK WITHIN THE PROJECT'S BOUNDARY.

2021 WASHINGTON STATE ENERGY CODE NOTES

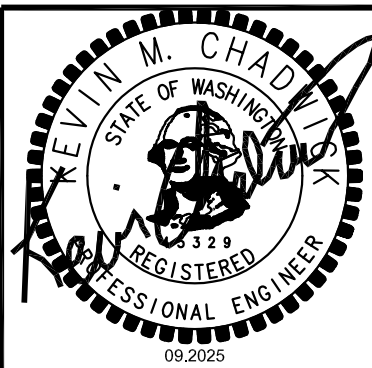
- PROVIDE POST CONSTRUCTION COMMISSIONING AND COMPLETION REQUIREMENTS IN ACCORDANCE WITH SECTION C408 AND ACCORDING WITH THE CONTRACT DOCUMENTS. SEE SPECIFICATION SECTIONS 23 05 00, 23 08 00 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.
- PROVIDE CLOSE OUT DOCUMENTATION AND TRAINING OF BUILDING OPERATIONS PERSONNEL FOR ALL MECHANICAL COMPONENTS IN ACCORDANCE WITH SECTION C103.6. SEE SPECIFICATIONS FOR MORE INFORMATION.
- EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING PER SECTION C408.2.2.1. SEE SPECIFICATIONS FOR DETAILS.
- BALANCE ALL HVAC SYSTEMS IN ACCORDANCE WITH SECTION C408.2.2, GENERALLY ACCEPTED ENGINEERING STANDARDS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SEE SPECIFICATION SECTION 23 05 93 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND ERECTED PER THE INTERNATIONAL MECHANICAL CODE 2021 EDITION. SEE SECTION C403.10.2 OF THE 2021 WASHINGTON STATE ENERGY CODE AND SPECIFICATIONS FOR MORE INFORMATION.
- ALL NEW DUCTWORK IS LOW PRESSURE.
- ALL DUCTS AND PLENUMS THAT ARE PART OF AN HVAC SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.10.1.1 OR C403.10.1.2. SEE SPECIFICATIONS FOR MORE INFORMATION.
- ALL PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.10.3. SEE SPECIFICATIONS FOR MORE INFORMATION.
- PROVIDE CONTROLS IN ACCORDANCE WITH SECTION C403.4 AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL PIPING SERVING AS PART OF PLUMBING SYSTEMS SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.10.3. SEE SPECIFICATIONS FOR MORE INFORMATION.

HVAC GENERAL NOTES

- THE MECHANICAL SCOPE OF WORK FOR THE LAB & ADMIN BUILDING CONSISTS OF DEMOLITION OF EXISTING MECHANICAL EQUIPMENT AND DUCTWORK NOTED IN DOCUMENTS, AND INSTALLATION OF NEW FCUS AND ERVS.
- THE MECHANICAL SCOPE OF WORK FOR THE PROCESS BUILDING CONSISTS OF REPLACEMENT OF ACTUATORS FOR MODULATING OUTSIDE AIR AND BYPASS DAMPERS AND THE ADDITION OF CONTROL VALVES TO EXISTING HEATING HOT WATER SUPPLY PIPING.
- THE MECHANICAL SCOPE OF WORK FOR THE HEADWORKS BUILDING CONSISTS OF DEMOLITION OF EXISTING AIR CONDITIONING UNIT, AND REPLACEMENT WITH A LIKE-IN-KIND AIR CONDITIONING UNIT WITH A HEROSITE COATING.

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Kitsap County Public Works
614 Division Street, MS 26
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**HVAC LEGEND, ABBREVIATIONS
AND GENERAL NOTES**

Drawing:	M0.01
Sheet:	18 of 47
File:	COMPLETE
Date:	September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: M0.02 Plot date: Aug 25, 2025-02:45:48pm CAD User: lmo.

MECHANICAL COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R1, R2, and Group R3 & R4 over 3 stories

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Project & Applicant Information	Project Title	Kitsap County Sewer Utility (KCU) Central Kitsap Treatment Plant (CKTP) HVAC System Replacement - 2021 WSEC	For Building Department Use: <div>Date: May 27, 2025</div>
	Project Address	614 Division Street, MS 26 Port Orchard, WA 98366	
	Applicant Name	Brent Quigley	
	Applicant Phone	206-385-6144	
	Applicant Email	brentq@fsi-engineers.com	

Mechanical Compliance Summary Scope - Compliance verification provided in this report is limited to code minimum efficiency requirements for mechanical equipment types defined in Tables C403.3.2(1) through C403.3.2(16) of the 2021 WSEC-C. This includes efficiency multipliers for economizer exceptions. Performance criteria for additional energy efficiency and load management measures ARE NOT included in this report. Additional documentation is required to demonstrate compliance with all other provisions of the energy code, including better than code efficiency criteria for Section C406. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com.

General Occupancy	All Commercial		General Building Use Type(s)	Industrial		Building Cond. Floor Area	4,600
General Project Types	Alteration	New Building or Addition Mechanical Scope		Alteration Mechanical Scope	Multiple Zone Systems & Equipment	Project Cond. Floor Area	4,600
						Floors Above Grade	1
						Overall Compliance Path	General Prescriptive
Mechanical Project Description	Demolition of existing air handler unit, ductwork, replacement with new air handler, variable air volume boxes, and energy-recovery ventilators.						

Mechanical Compliance Scope and Method	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?		Equipment Efficiency Compliance Verification
	Alteration	Multiple Zone Systems & Equipment	Yes	Yes		COMPLIES
Additional Energy Efficiency Measures (AEM)	No mechanical additional energy efficiency measures included in project			Load Management Measures (LDM)	No mechanical load management measures included in project	
Does building include occupancy classifications requiring DOAS?			No	Does project include DOAS equipment?		Yes
Based on project scope do TSPR requirements apply?			No	Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?		Yes

Scope & Space Conditioning	ALTERATION - MULTIPLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Multiple Zone Air Systems Category - Heat pump, split & single package

Air Systems Summary Information							
System/Equip ID	Supply Airflow Control	Ventilation Standard	Ventilation CFM	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
CU-1, FCU-1	VAV with zone return or exhaust control	IMC Multiple Zones Ventilation	630	Separate DOAS	ERV-1, ERV-2	Yes per C403.5 Energy Recovery	75.9
CU-2, FCU-2	VAV with zone return or exhaust control	IMC Multiple Zones Ventilation	765	Separate DOAS	ERV-1, ERV-2	Yes per C403.5 Energy Recovery	75.9
CU-3	Constant volume	IMC Multiple Zones Ventilation	85	Separate DOAS	ERV-3	Provided but not required	74.7

Air Systems & Equipment - Cooling												
System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity (Btu/h)	Econo Exception Multipliers (Full/IPLV)		Required Cooling Efficiency (Code Min + Econo)	Required Part Load Efficiency (Code Min + Econo)	Proposed Cooling Efficiency	CE Units	Proposed Part Load Efficiency	PL Units	Efficiency Compliance Verification
CU-1, FCU-1	Heat pump, air cooled	Split system	36,100	1.0	1.0	14.3	0	23	SEER2		IEER	COMPLIES
CU-2, FCU-2	Heat pump, air cooled	Split system	36,100	1.0	1.0	14.3	0	23	SEER2		IEER	COMPLIES
CU-3	Heat pump, air cooled	Split system	18,000	1.0	1.0	14.3	0	15.2	SEER2		IEER	COMPLIES

Air Systems & Equipment - Heating												
System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h) (Identical to Cooling Table)	Required Heat Pump Heating Efficiency	Required Low OSA Temp Efficiency	Proposed Heat Pump Heating Efficiency	HPH Units	Proposed Low OSA Temp Efficiency	LTH Units	Efficiency Compliance Verification	
CU-1, FCU-1	Heat pump, air cooled, heating	Split system	36,960	36,100	7.5	0	9.6	HSPF2		COP	COMPLIES	
CU-3	Heat pump, air cooled, heating	Split system	17,400	18,000	7.5	0	7.8	HSPF2		COP	COMPLIES	
CU-2, FCU-2	Heat pump, air cooled, heating	Split system	36,960	36,100	7.5	0	9.6	HSPF2		COP	COMPLIES	

Air Systems & Equipment Details			
System/Equip ID	Discrete Area(s) Served	Location In Project Documents - Plan/Detail #	System/Equip Compliance Path
CU-1, FCU-1	Lab	M4.01, M5.01	General Prescriptive
	Heating Section/Auxiliary Heating Type: Electric resistance (or None)		Economizer Compliance Method: Applying air-side economizer exception
	Air-side economizer exception applied: Exp 1 - DOAS paired with cooling system (Note equip location limitations)		
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Air-Cooled Heat Pumps		
	WSEC Equip Efficiency Reference Table - Heating: Refer to Cooling Reference Table		
CU-2, FCU-2	Lab	M4.01, M5.01	General Prescriptive
	Heating Section/Auxiliary Heating Type: Electric resistance (or None)		Economizer Compliance Method: Applying air-side economizer exception
	Air-side economizer exception applied: Exp 1 - DOAS paired with cooling system (Note equip location limitations)		
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Air-Cooled Heat Pumps		
	WSEC Equip Efficiency Reference Table - Heating: Refer to Cooling Reference Table		
CU-3	Back of House	M4.01, M5.01	General Prescriptive
	Heating Section/Auxiliary Heating Type: Electric resistance (or None)		Economizer Compliance Method: Applying air-side economizer exception
	Air-side economizer exception applied: Exp 1 - DOAS paired with cooling system (Note equip location limitations)		
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) Unitary Air-Cooled Heat Pumps		
	WSEC Equip Efficiency Reference Table - Heating: Refer to Cooling Reference Table		

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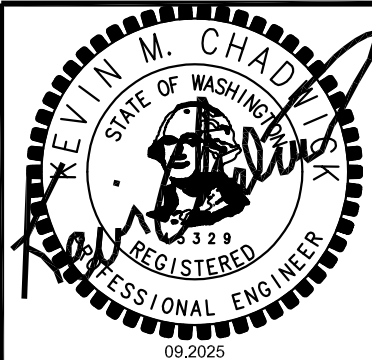
CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

WSEC COMPLIANCE FORMS

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Drawing: **M0.02**

Sheet: 19 of 47

File: COMPLETE

Date: September 2025

GENERAL NOTES

1. DEMOLISH SYSTEMS IN WEST AND EAST LABS IN COMPLIANCE WITH COUNTY-APPROVED LAB CONSTRUCTION PHASING PLAN.

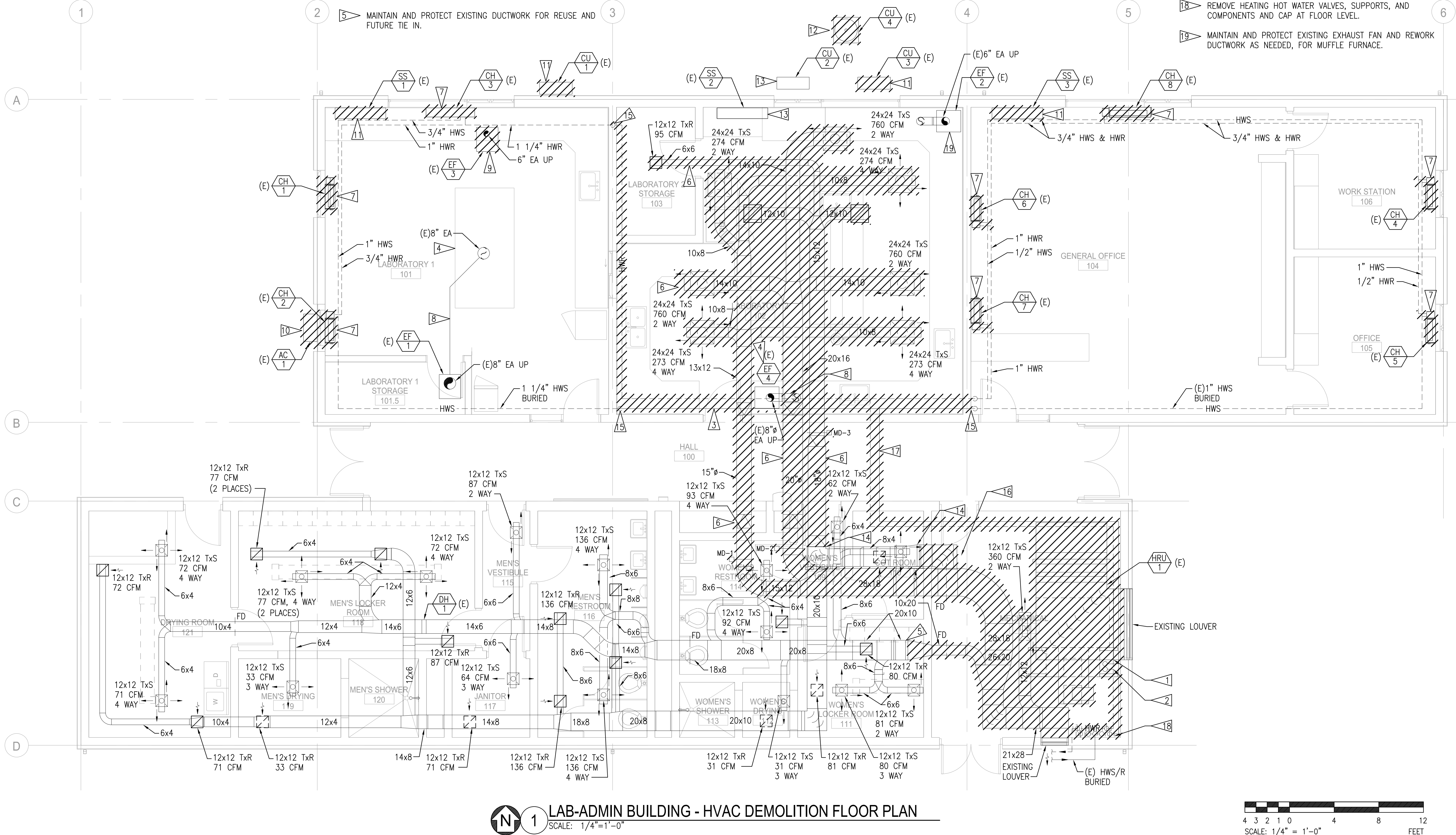
DEMOLITION NOTES

1. REMOVE EXISTING HEAT RECOVERY UNIT, DUCTWORK, AND PIPING CONNECTIONS. MAINTAIN OUTSIDE AIR AND EXHAUST LOUVERS.
2. REMOVE EXISTING HEATING HOT WATER HWS/R PIPING, VALVES AND SUPPORTS TO HEAT RECOVERY UNIT.
3. REMOVE EXISTING HEATING HOT WATER HWS/R PIPING AND SUPPORTS WITHIN LAB 102 ROUTING TO LAB 101.
4. MAINTAIN AND PROTECT EXISTING FUME HOOD. TAKE AIRFLOW READINGS OF EXHAUST FANS PRIOR TO DEMOLITION WORK FOR RECORD.
5. MAINTAIN AND PROTECT EXISTING DUCTWORK FOR REUSE AND FUTURE TIE IN.

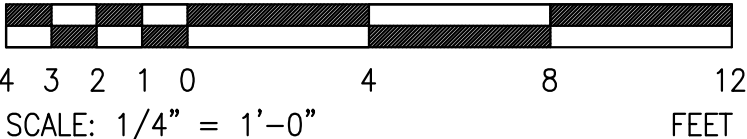
6. REMOVE EXISTING DUCTWORK, DIFFUSERS, GRILLES, SUPPORTS, AND APPURTENANCES.
7. REMOVE EXISTING CABINET HEATER, HEATING HOT WATER VALVES, AND HEATING HOT WATER PIPING. CAP PIPING AT FLOOR AND LEAVE PIPING UNDER SLAB ABANDONED IN PLACE.
8. MAINTAIN AND PROTECT EXISTING EXHAUST FAN AND DUCTWORK FOR LAB HOOD EXHAUST.
9. REMOVE EXISTING EXHAUST FAN AND DUCTWORK AND PATCH ROOF PENETRATION.

10. REMOVE EXISTING THROUGH WALL AIR CONDITIONING UNIT. OPENING TO BE ENCLOSED BY NEW WINDOW PER ARCHITECTURAL DRAWINGS.
11. REMOVE EXISTING SPLIT SYSTEM OUTDOOR AND INDOOR UNITS AND ASSOCIATED PIPING AND RETURN TO OWNER. PATCH WALL PENETRATIONS.
12. REMOVE EXISTING CONDENSING UNIT, ASSOCIATED PIPING, AND CONCRETE PAD.
13. MAINTAIN AND PROTECT EXISTING SPLIT SYSTEM OUTDOOR AND INDOOR UNITS.

14. REMOVE RETURN DUCTWORK UP TO TEE AND CAP OPEN END.
15. DRAIN BURIED HEATING HOT WATER PIPING WITH COMPRESSED AIR FOR ANY POTENTIAL LOW POINTS AND CAP OPEN END AT TOP OF VERTICAL PIPE CHASE. LEAVE PIPING UNDERSLAB AND IN WALL CAVITY ABANDONED IN PLACE.
16. MAINTAIN AND PROTECT DOMESTIC HOT WATER PIPING AND WATER HEATER IN MECHANICAL ROOM.
17. REMOVE EXISTING HOT WATER HWS/R PIPING AND SUPPORTS THROUGH TRANSFER STRUCTURE AND IN MECHANICAL ROOM.
18. REMOVE HEATING HOT WATER VALVES, SUPPORTS, AND COMPONENTS AND CAP AT FLOOR LEVEL.
19. MAINTAIN AND PROTECT EXISTING EXHAUST FAN AND REWORK DUCTWORK AS NEEDED, FOR MUFFLE FURNACE.



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LAB-ADMIN BUILDING - HVAC DEMOLITION FLOOR PLAN
SCALE: 1/4"=1'-0"

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**LAB-ADMIN BUILDING
HVAC DEMOLITION FLOOR PLAN**

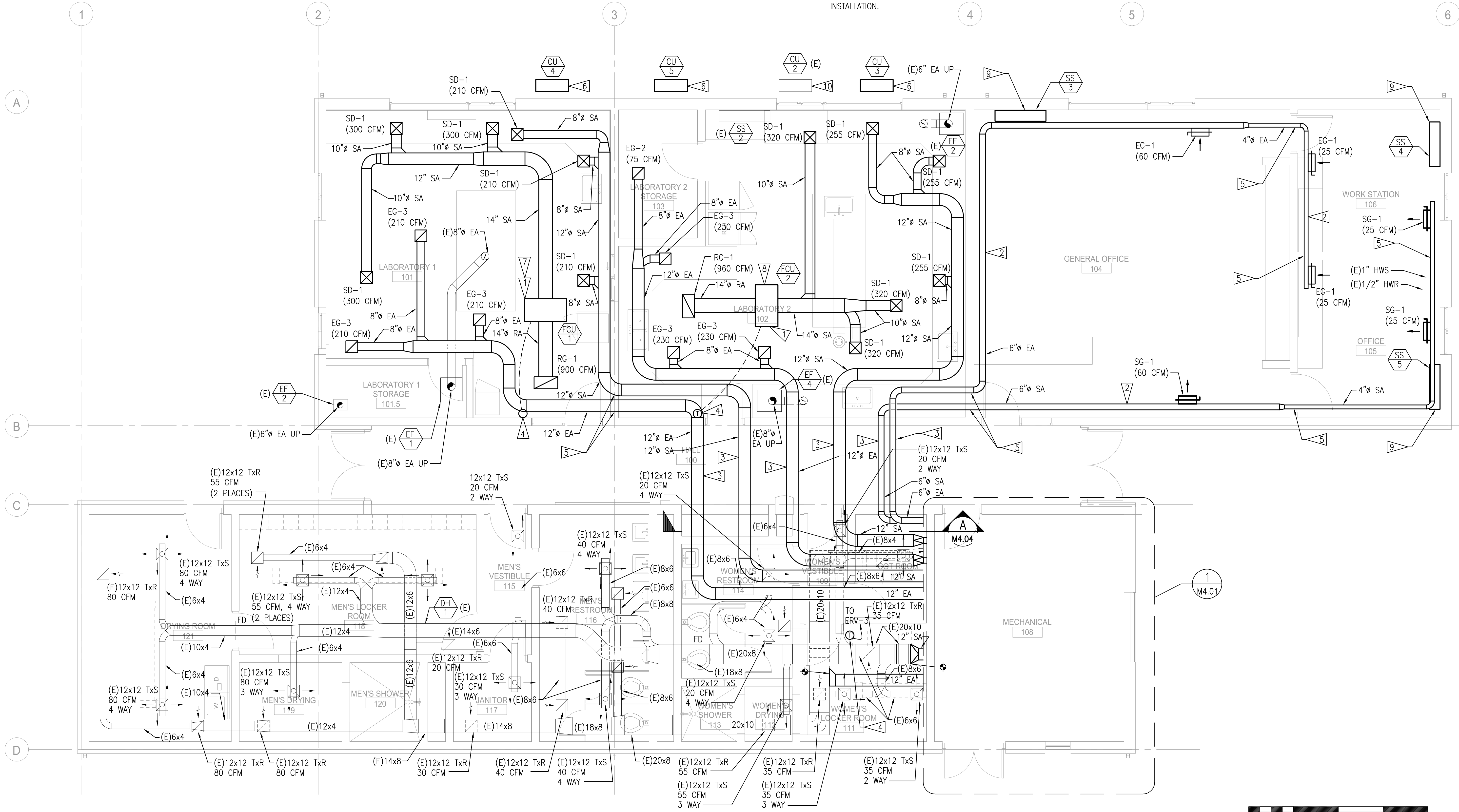
Drawing: **MD1.01**
Sheet: 20 of 47
File: COMPLETE
Date: September 2025

GENERAL NOTES

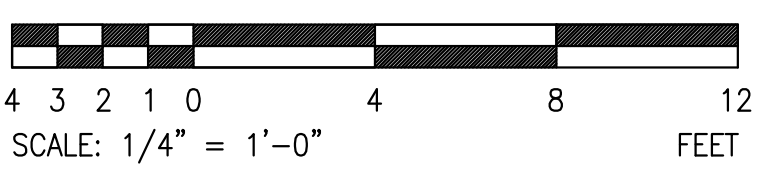
- 1. INSTALL SYSTEMS IN WEST AND EAST LABS IN COMPLIANCE WITH COUNTY-APPROVED LAB CONSTRUCTION PHASING PLAN.
- 2. PROVIDE FLEX DUCT TO ALL INLET AND OUTLET CONNECTIONS.

CONSTRUCTION NOTES

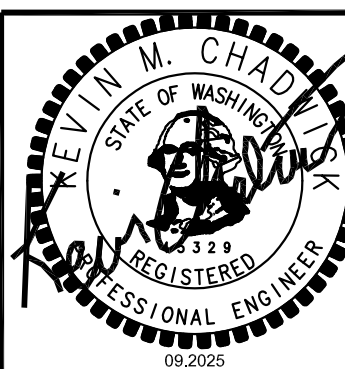
- 1. PROVIDE AND INSTALL FAN COIL UNIT TO BE MOUNTED ABOVE CEILING. PROVIDE CONDENSATE DRAINAGE PIPING AND ROUTE TO NEAREST SINK TAIL PIECE.
- 2. PROVIDE AND INSTALL EXPOSED DUCTWORK AND SUPPORTS TIGHT TO ROOF STRUCTURE. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS OF WALL MOUNTED SPLIT UNITS.
- 3. ROUTE DUCTWORK IN EXISTING DUCT TRANSFER STRUCTURES.
- 4. PROVIDE AND MOUNT WALL THERMOSTAT.
- 5. ROUTE DUCTWORK THROUGH EXISTING INTERIOR WALL. REFER TO ARCHITECTURAL DETAILS ON A1.12 FOR WALL PENETRATION REQUIREMENTS.
- 6. PROVIDE AND INSTALL EXTERIOR CONDENSING UNIT ON PLASTIC CONDENSING UNIT PAD. PROVIDE REFRIGERANT PIPING AND ROUTE THROUGH NEW WALL PENETRATION TO INTERIOR UNIT. REFER TO ARCHITECTURAL DETAILS ON A1.12 FOR WALL PENETRATION REQUIREMENTS. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 7. PROVIDE REFRIGERANT PIPING AND CONNECT TO FAN COIL UNIT. ROUTE PIPING TO EXTERIOR CONDENSING UNIT (CU-4).
- 8. PROVIDE REFRIGERANT PIPING AND CONNECT TO FAN COIL UNIT. ROUTE PIPING TO EXTERIOR CONDENSING UNIT (CU-5).
- 9. PROVIDE AND INSTALL WALL MOUNTED SPLIT UNIT AND PROVIDE REFRIGERANT CONDENSATE PIPING. ROUTE REFRIGERANT PIPING TO EXTERIOR CONDENSING UNIT (CU-3). DRAIN CONDENSATE TO EXTERIOR. PROVIDE NEW WALL PENETRATIONS AND REFER TO ARCHITECTURAL DETAILS ON A1.12 FOR WALL PENETRATION REQUIREMENTS.
- 10. REPLACE EXISTING REFRIGERANT PIPING CURRENTLY SERVING CU-2 AND SS-2.



LAB-ADMIN BUILDING - HVAC FLOOR PLAN
SCALE: 1/4"=1'-0"



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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

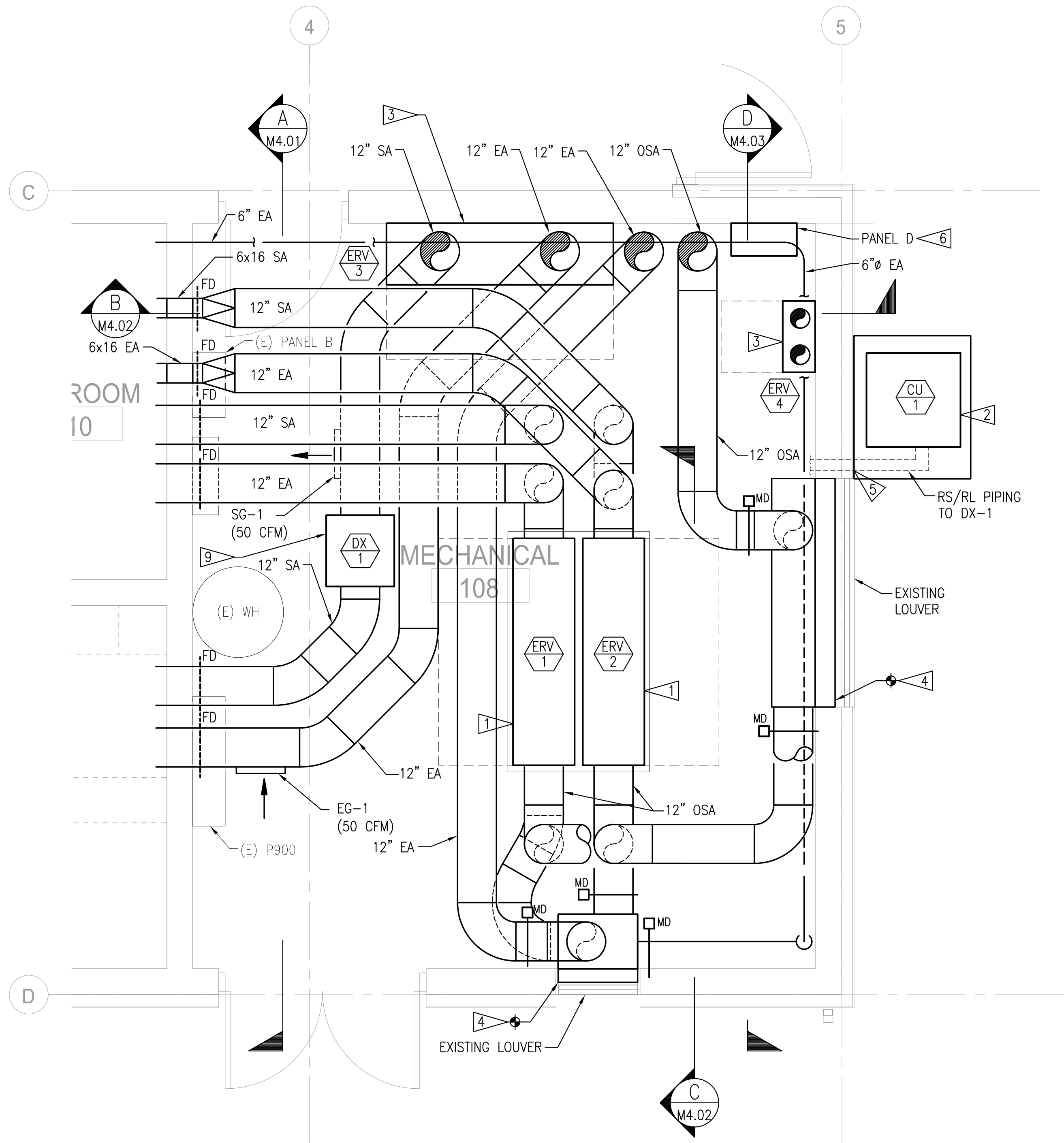
LAB-ADMIN BUILDING HVAC FLOOR PLAN

Drawing:	M1.01
Sheet:	21 of 47
File:	COMPLETE
Date:	September 2025

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CONSTRUCTION NOTES

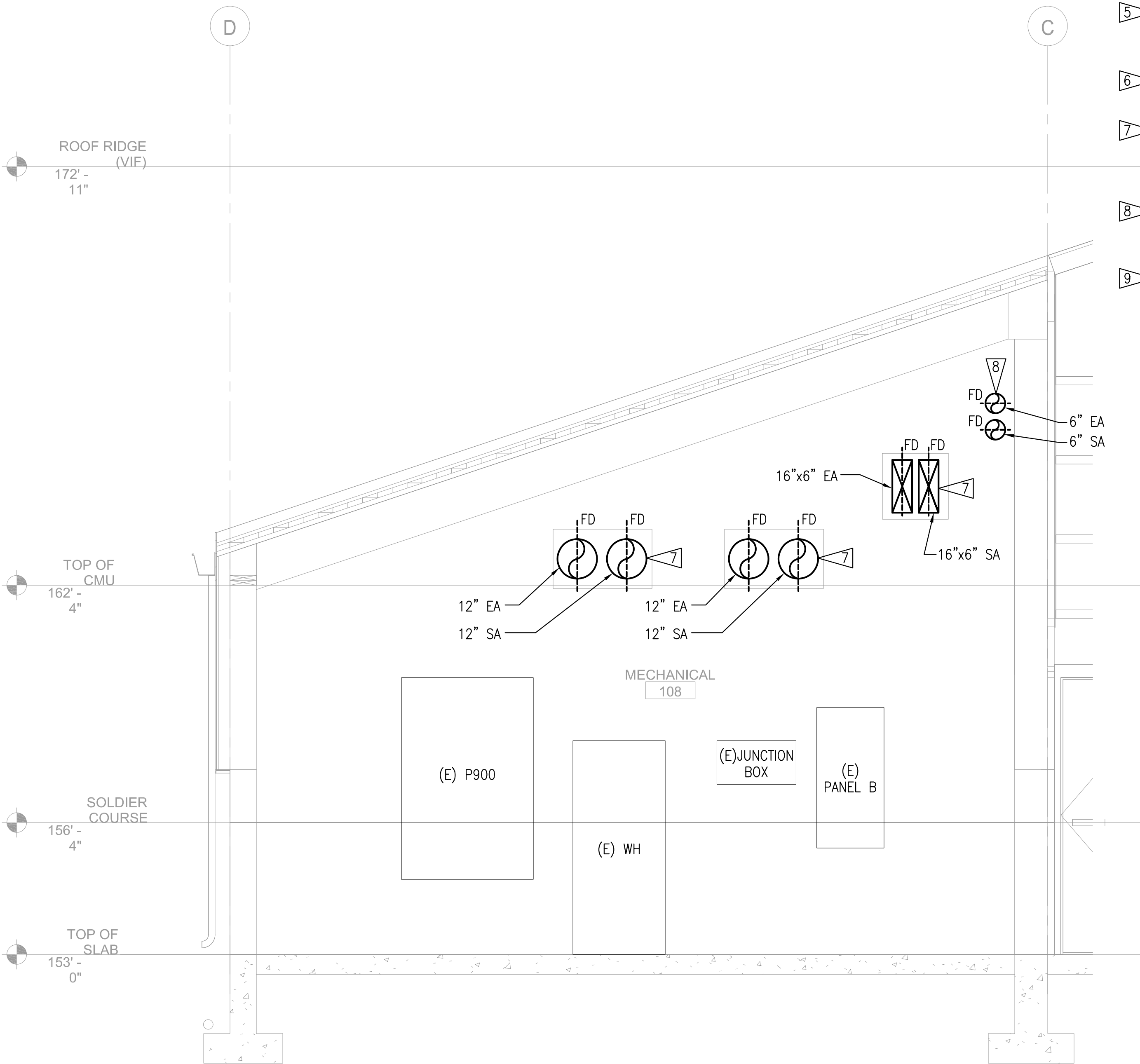
- 1 PROVIDE AND INSTALL ENERGY RECOVERY VENTILATOR UNIT ON 4" HOUSEKEEPING PAD.
- 2 PROVIDE AND INSTALL EXTERIOR CONDENSING UNIT ON PLASTIC CONDENSING UNIT PAD.
- 3 PROVIDE AND MOUNT ENERGY RECOVERY VENTILATOR UNIT ON WALL.
- 4 PROVIDE DUCT PLENUM BOX AND CONNECT TO EXISTING LOUVER. PROVIDE FLANGED CONNECTIONS FROM DUCTWORK TO PLENUM BOX.
- 5 ROUTE REFRIGERANT PIPING THROUGH NEW WALL PENETRATION. REFER TO ARCHITECTURAL DETAILS ON A1.12 FOR WALL PENETRATION REQUIREMENTS.
- 6 MAINTAIN A MIN. 36" CLEAR FROM FRONT OF NEW ELECTRICAL PANEL.
- 7 ROUTE DUCTWORK THROUGH EXISTING WALL PENETRATION. CONTRACTOR SHALL PROVIDE DUCT TRANSITIONS FOR FIRE DAMPERS AND DUCTWORK THROUGH EXISTING WALL PENETRATIONS.
- 8 ROUTE DUCTWORK THROUGH EXISTING INTERIOR WALL. REFER TO ARCHITECTURAL DETAILS ON A1.12 FOR WALL PENETRATION REQUIREMENTS.
- 9 PROVIDE IN-LINE DIRECT EXPANSION COIL AND ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.



ENLARGED PLAN - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

1
M1.01 | M4.01



SECTION VIEW - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

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M4.01 | M4.01

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**LAB-ADMIN BUILDING
HVAC ENLARGED PLANS**

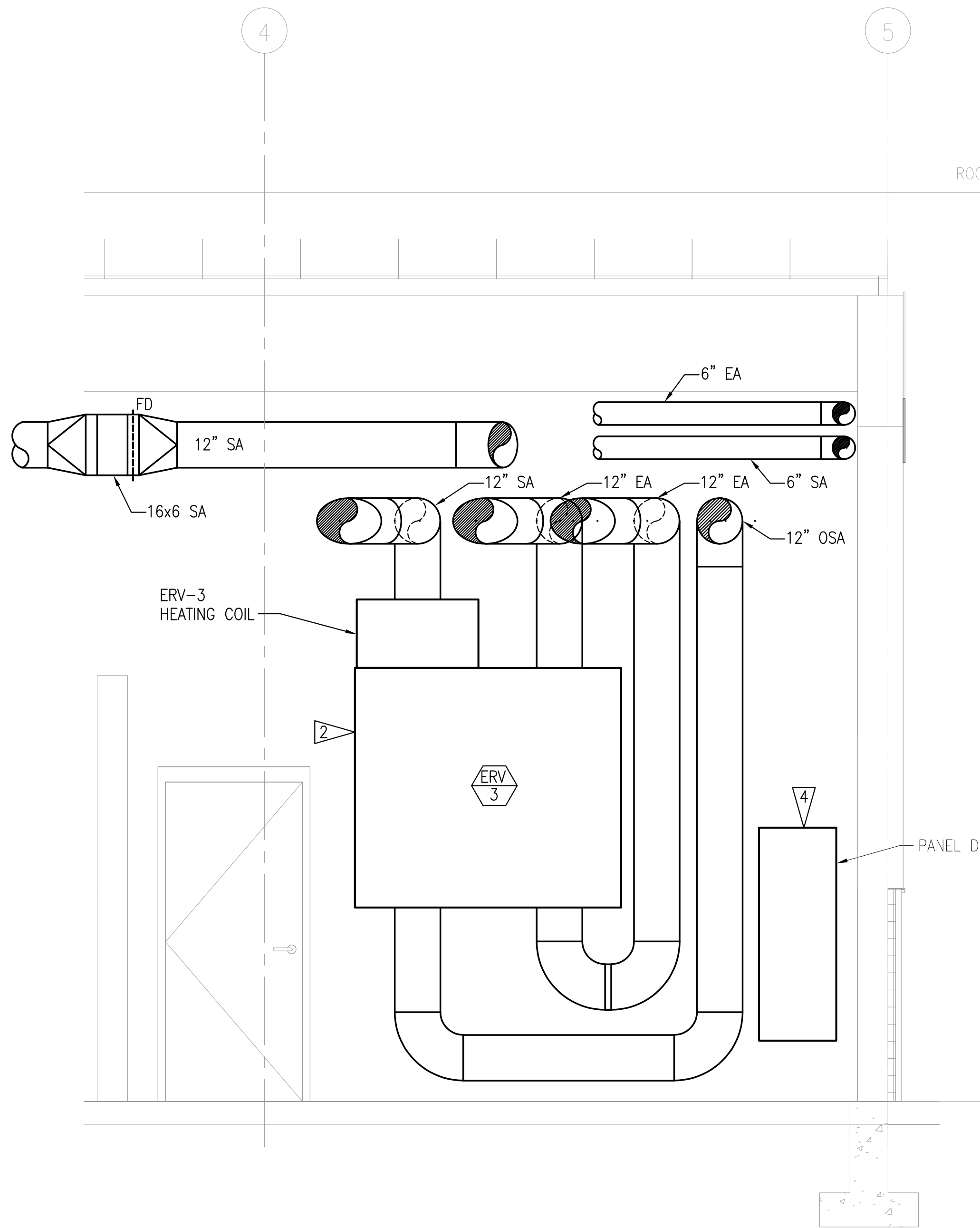
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Sheet: 22 of 47
File: COMPLETE
Date: September 2025

CONSTRUCTION NOTES

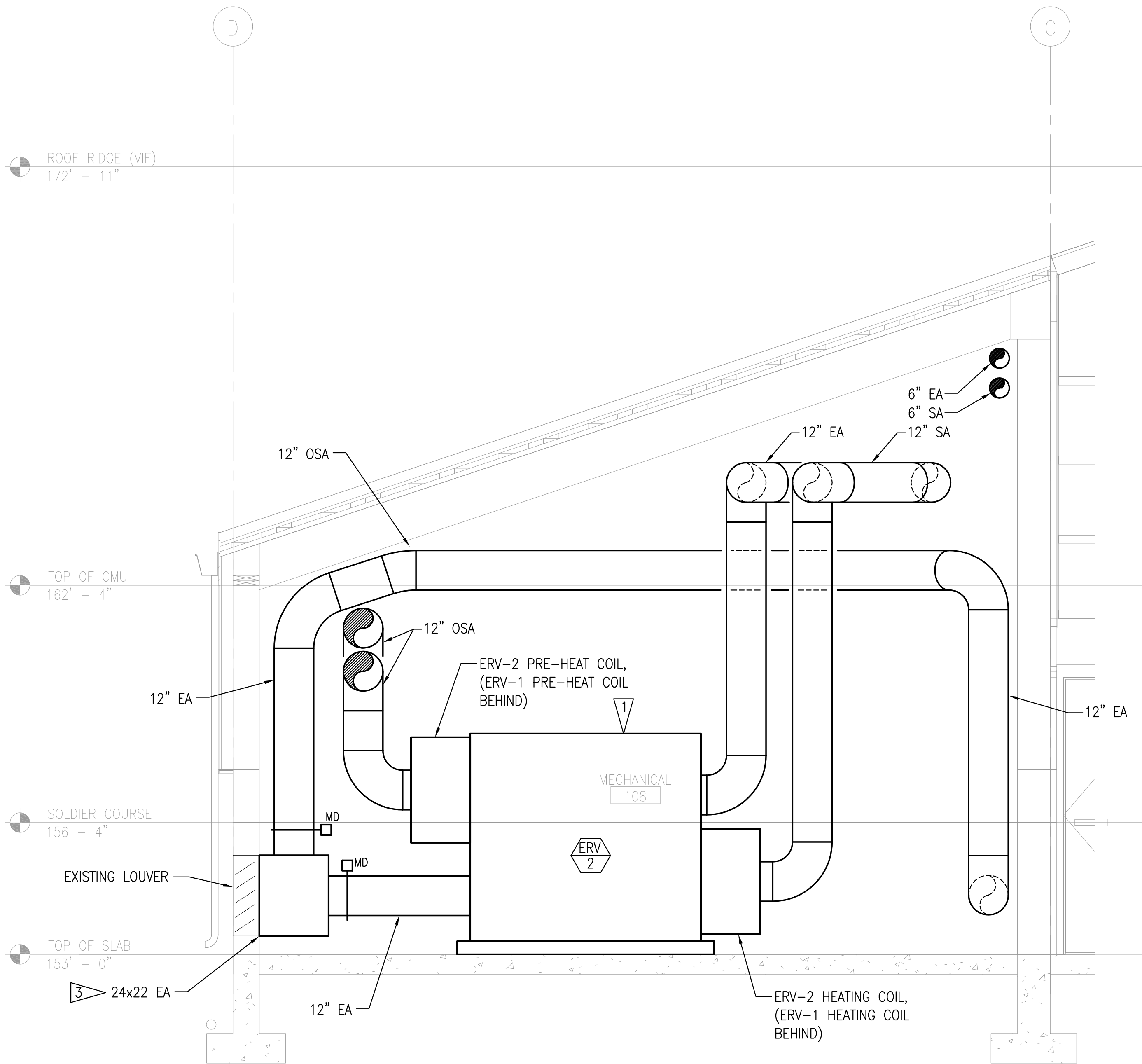
- 1 PROVIDE AND INSTALL ENERGY RECOVERY VENTILATOR UNIT ON 4" HOUSEKEEPING PAD.
- 2 PROVIDE AND MOUNT ENERGY RECOVERY VENTILATOR UNIT ON WALL. CONTRACTOR TO PROVIDE UNISTRUT AND ANGLE BRACKET DESIGN TO SUPPORT UNIT FROM BOTTOM TO WALL FOR ENGINEER REVIEW. REFER TO STRUCTURAL NOTES ON S1.01 FOR ADDITIONAL LOADING REQUIREMENTS.
- 3 PROVIDE AND INSTALL 24"x22" PLENUM BOX OVER EXISTING LOUVER. PROVIDE FLANGED CONNECTIONS FROM DUCTWORK TO PLENUM BOX.
- 4 MAINTAIN A MIN. 36" CLEAR FROM FRONT OF NEW ELECTRICAL PANEL.



SECTION VIEW - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

B
M4.01 M4.02



SECTION VIEW - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

C
M4.01 M4.02

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

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Sheet:	23 of 47
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Date:	September 2025

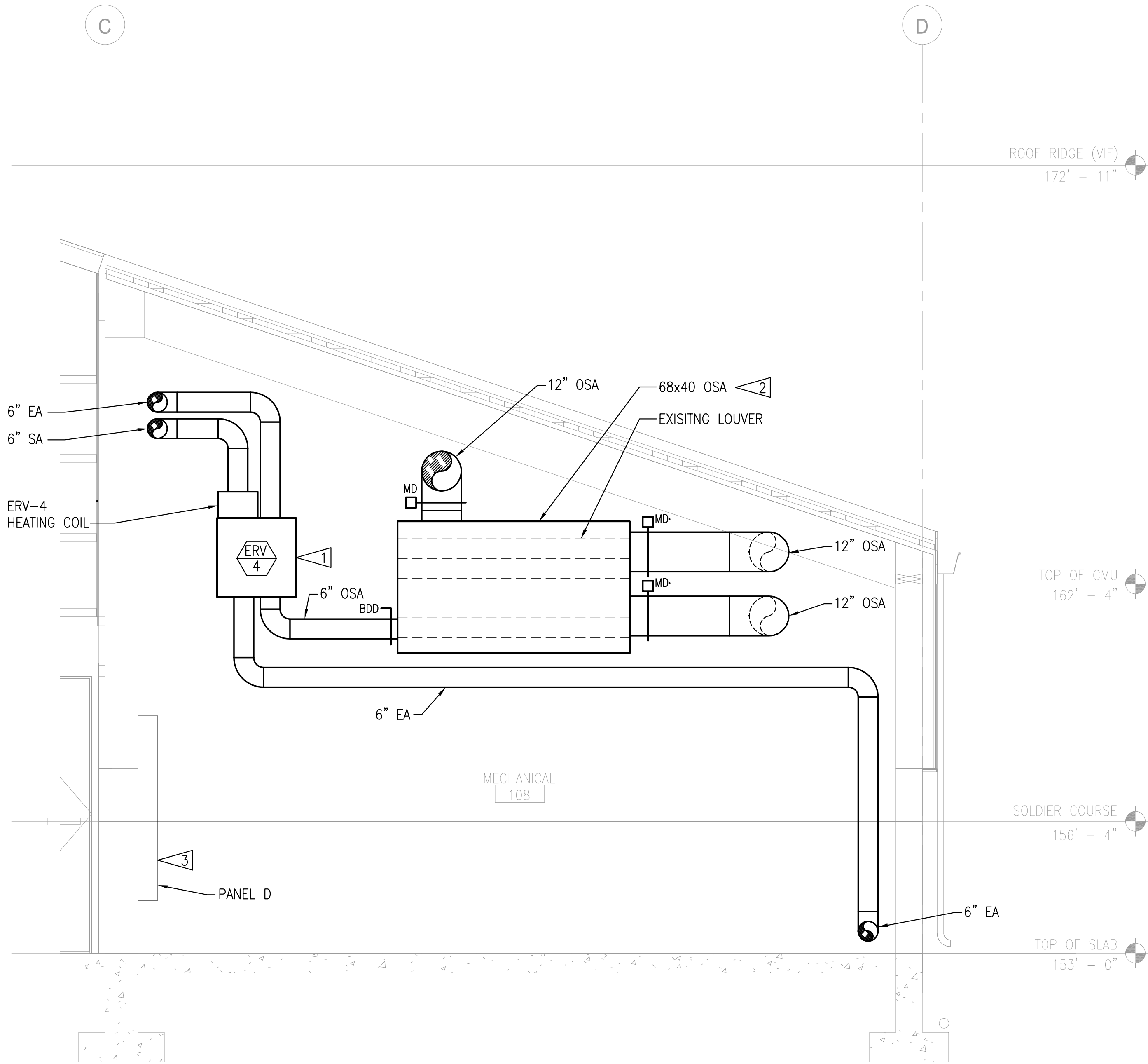
CONSTRUCTION NOTES

- 1

PROVIDE AND INSTALL ENERGY RECOVERY VENTILATOR UNIT ON WALL.
- 2

PROVIDE AND INSTALL 68"x40" PLENUM BOX OVER EXISTING LOUVER. PROVIDE FLANGED CONNECTIONS FROM DUCTWORK TO PLENUM BOX.
- 3

MAINTAIN A MIN. 36" CLEAR FROM FRONT OF NEW ELECTRICAL PANEL.



SECTION VIEW - MECHANICAL ROOM

SCALE: 1/2"=1'-0"

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M4.01| M4.03

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**LAB-ADMIN BUILDING
HVAC SECTIONS**

Drawing: **M4.03**

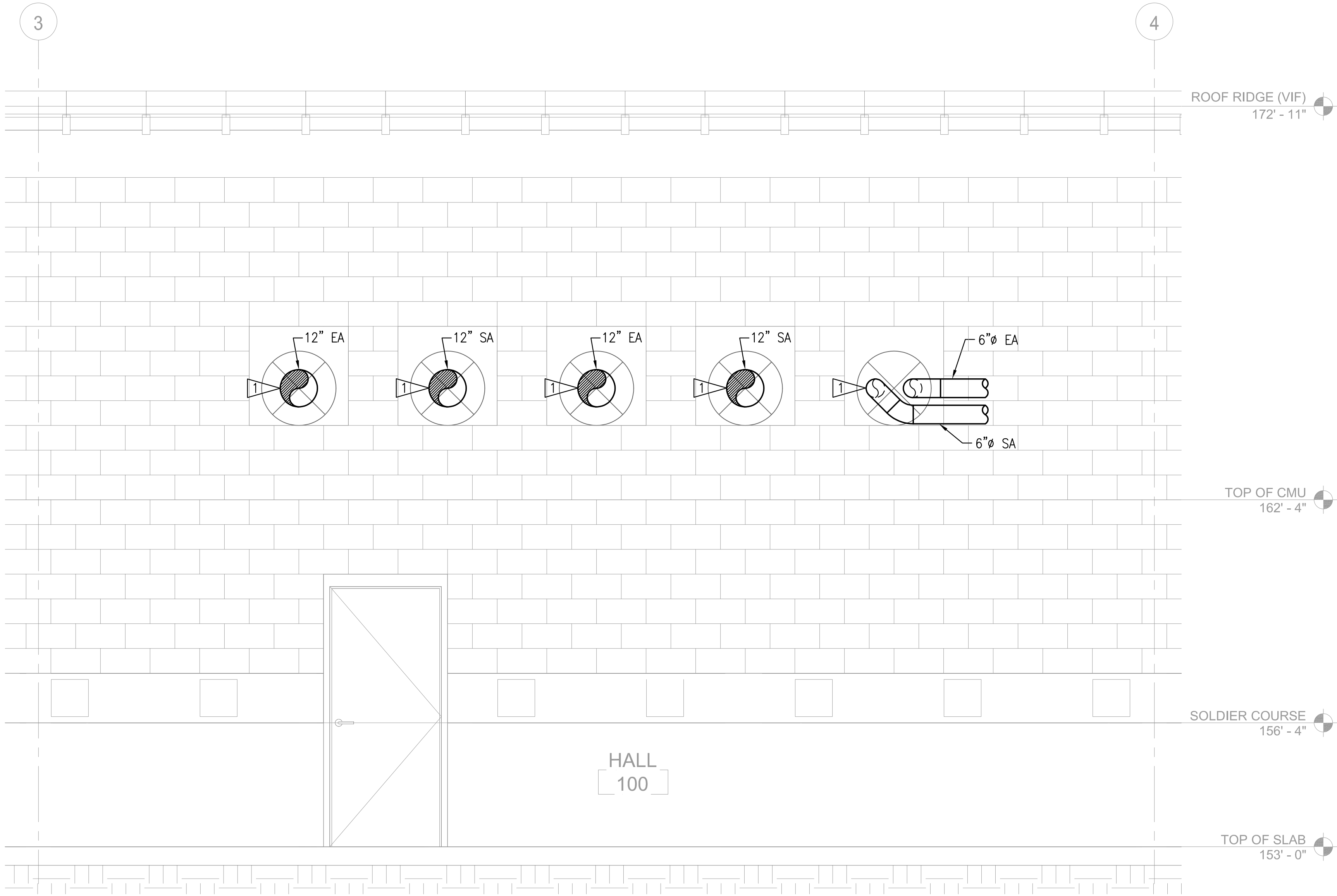
Sheet: 24 of 47

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Date: September 2025

CONSTRUCTION NOTES

1 PROVIDE AND INSTALL DUCTWORK WITHIN EXISTING DUCT TRANSFER STRUCTURE.



SECTION VIEW -

SCALE: 1/2"=1'-0"

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LAB-ADMIN BUILDING
HVAC SECTIONS

Drawing: M4.04

Sheet: 25 of 47

File: COMPLETE

Date: September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: M5.01 Plot date: Sep 24, 2025-01:09:00pm CAD User: lmo.

VRV SPLIT SYSTEM UNIT SCHEDULE

CALLOUT		LOCATION	AREA SERVED	UNIT CONFIGURATION	RATED UNIT EFFICIENCY [1]	INDOOR FAN		COOLING			HEATING		REFER TYPE	OPERATING WEIGHT (LBS)	ELECTRICAL [7][8]					BASIS OF DESIGN		NOTES
TYPE	MARK					CFM	ESP (IN WC) [2] [3]	NOMINAL CAPACITY (TONS) [5]	TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)	HEATING CAPACITY (BTUH) [5]	MIN EFFICIENCY (HSPF2)			ELECTRICAL [7][8]					MANUFACTURER	MODEL	
															V	HZ	ø	MOCp	MCA			
FCU	1	WEST LAB	WEST LAB	DUCTED	—	1130	0.5	3	36000	23250	36960	—	R32	105	208	60	1	15	3	DAIKIN	FXMA36AAVJU	
FCU	2	EAST LAB	EAST LAB	DUCTED	—	1130	0.5	3	36000	23250	36960	—	R32	105	208	60	1	15	3	DAIKIN	FXMA36AAVJU	
DX	1	MECH ROOM	BACK OF HOUSE	IN—LINE DUTCTED	—	—	—	1.5	18000	—	17400	—	R32	55	—	—	—	—	—	DAIKIN	CHPTA1822B3	
CU	1	OUTSIDE	ERV—3	—	12.5/15.2	—	—	1.5	18000	—	17400	7.8	R32	160	208	60	1	15	11.4	DAIKIN	DH4SEA1810	
CU	3	OUTSIDE	SS—3, SS—4, SS—5	—	12/21	—	—	2	23000	—	24000	10	R32	140	208	60	1	25	19.9	DAIKIN	3MXM24AVJU9	
CU	4	OUTSIDE	FCU—1	—	12/23	—	—	3	36100	—	36960	9.6	R32	175	208	60	1	20	19.8	DAIKIN	RXTQ36TBVJUB	
CU	5	OUTSIDE	FCU—2	—	12/23	—	—	3	36100	—	36960	9.6	R32	175	208	60	1	20	19.8	DAIKIN	RXTQ36TBVJUB	
SS	3	GEN OFFICE	GENERAL OFFICE	WALL MOUNTED	—	300	—	1	12000	—	12000	—	R32	19	208	60	1	—	—	DAIKIN	FTXV12AVJU9	
SS	4	WORK STATION	WORK STATION	WALL MOUNTED	—	300	—	0.5	7000	—	7000	—	R32	19	208	60	1	—	—	DAIKIN	CTXV07AVJU9	
SS	5	OFFICE	OFFICE	WALL MOUNTED	—	300	—	0.5	7000	—	7000	—	R32	19	208	60	1	—	—	DAIKIN	CTXV07AVJU9	

SCHEDULE NOTES:
[1] TEST PROCEDURE: AHRI 210/240 OR AHRI 340/360
[2] STATIC PRESSURE EXTERNAL TO UNIT
[3] DOES NOT INCLUDE ALLOWANCE FOR FILTER LOADING
[5] NOMINAL TONNAGE INCLUDED FOR REFERENCE ONLY – DO NOT USE FOR FINAL SIZING OF EQUIPMENT
[6] MAXIMUM ALLOWABLE MOTOR BRAKEHORSE POWER AT MAX FLOW AND ESP PER FAN MOTOR
[7] SINGLE POINT CONNECTION. UNIT TO BE PROVIDED WITH DISCONNECT SWITCH
[8] POWER CONNECTION TO BE MADE TO CONDENSING UNIT WITH CONDUIT AND POWER CONNECTED TO INDOOR UNIT FROM OUTDOOR UNIT

ENERGY RECOVERY VENTILATOR SCHEDULE

CALLOUT		LOCATION	SERVICE	SUPPLY FAN							RETURN FAN							FILTER		DX HEATING	MAX SOUND LEVEL (DBA)	OPERATING WEIGHT (LBS)	ELECTRICAL											
				FAN TYPE	DRIVE TYPE	CFM [1]	E.S.P. (IN WC) [2]	QTY	RPM [1]	MOTOR		FAN TYPE	DRIVE TYPE	CFM [1]	E.S.P. (IN WC) [2]	QTY	RPM [1]	MOTOR		TYPE			MAX VEL	TOTAL HEATING (MBH)	UNIT				PREHEATER			BACKUP HEATER		
										HP	BHP							HP	BHP						V	HZ	PH	MCA	V	KW	MCA	V	KW	MCA
ERV	1	OUTSIDE WEST LAB	WEST LAB	PLENUM	DIRECT	630	1.0	1	2311	1	1/2	PLENUM	DIRECT	630	1.0	1	2291	1	1/2	MERV 13	500	—	70	610	208	60	1	9.06	208	5	30.06	208	2	12.03
ERV	2	OUTSIDE EAST LAB	EAST LAB	PLENUM	DIRECT	760	1.0	1	2822	1	1/2	PLENUM	DIRECT	760	1.0	1	2344	1	1/2	MERV 13	500	—	70	610	208	60	1	9.06	208	5	30.06	208	2	12.03
ERV	3	LAB/ADMIN MECH ROOM	BACK OF HOUSE	PLENUM	DIRECT	735	1.0	1	2348	1	1/2	PLENUM	DIRECT	735	1.0	1	2426	1	1/2	MERV 8	500	17.4	70	610	208	60	1	9.06	—	—	—	208	5	30.06
ERV	4	LAB/ADMIN MECH ROOM	OFFICE	PLENUM	DIRECT	85	0.5	1	4165	1/8	0.07	PLENUM	DIRECT	85	0.5	1	3861	1/8	0.07	MERV 8	500	—	70	35	120	60	1	15	120	1	8.33	—	—	—

ENERGY RECOVERY VENTILATOR SCHEDULE - CONTINUED

CALLOUT		ENERGY RECOVERY										BASIS OF DESIGN		NOTES
		WINTER					SUMMER							
TYPE	MARK	OUTSIDE AIR DB/WB (DEG F)	RETURN AIR DB/WB (DEG F)	SUPPLY AIR DB/WB (DEG F)	CAPACITY REDUCTION (MBH)	ASHRAE 90.1 ENTHALPY RECOVERY RATIO	OUTSIDE AIR DB/WB (DEG F)	RETURN AIR DB/WB (DEG F)	SUPPLY AIR DB/WB (DEG F)	CAPACITY REDUCTION (MBH)	ASHRAE 90.1 ENTHALPY RECOVERY RATIO	MANUFACTURER	MODEL	
ERV	1	35/30.9	70/52.9	62.1/48.3	22.9	76.01	86/65.7	75/63	77.4/63.4	4.68	84.43	OXYGEN8	H10IN	
ERV	2	35/30.9	70/52.9	61/47.6	26.3	72.45	86/65.7	75/63	77.8/63.5	5.44	81.37	OXYGEN8	H10IN	
ERV	3	24.8/24.7	70/52.9	59.8/47.2	32.8	75.94	86/65.7	75/63	77.4/63.4	5.5	85	OXYGEN8	H10IN	
ERV	4	24.8/20.7	70/51.5	54.1/41.3	3.7	61.3	86/65.7	75/62.5	78.9/63.5	0.8	60.4	RENEWAIRE	EV PREMIUM S	

SCHEDULE NOTES
[1] WITH UNIT AT MAXIMUM CONDITIONS.
[2] STATIC PRESSURE EXTERNAL TO UNIT.

AIR OUTLETS AND INLETS SCHEDULE

CALLOUT	AIR TERMINAL DESCRIPTION	AIRFLOW CAPACITY LIMITS (CFM)		NOMINAL SIZE		NECK DIMENSIONS			MAX NC	MAX TSP DROP (IN. W.G.)	MATERIAL	OPD	FINISH	BASIS OF DESIGN		NOTES
		MAXIMUM	MINIMUM	LENGTH	WIDTH	DIAMETER	FOR RECTANGULAR							MANUFACTURER	MODEL	
							LENGTH	WIDTH								
SD-1	MODULAR CORE SQUARE CEILING DIFFUSER	415	200	24"	24"		10"	10"	18	0.05	STEEL	NO	WHITE	TITUS	MCD	
RG-1	CEILING MOUNTED LOUVERED RETURN GRILLE W/ FILTER	1000	185	24"	12"	14"	-	-	14	0.05	ALUMINUM BORDER AND CORE	NO	WHITE	TITUS	350FLF1	
EG-1	DUCT MOUNTED SPIRAL GRILLE	70	0	10"	3"	-	-	-	20	0.016	ALUMINUM	NO	N/A	TITUS	S300FS	
EG-2	CEILING MOUNTED EGGRATE RETURN GRILLE	150	0	6"	6"	8"	-	-	17	0.03	ALUMINUM BORDER AND CORE	NO	WHITE	TITUS	50F	
EG-3	CEILING MOUNTED EGGRATE RETURN GRILLE	410	175	10"	10"	12"	-	-	14	0.025	ALUMINUM BORDER AND CORE	NO	WHITE	TITUS	50F	
SG-1	DUCT MOUNTED SPIRAL GRILLE	70	0	10"	3"	-	-	-	20	0.016	ALUMINUM	NO	N/A	TITUS	S300FS	

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If Not One Inch Scale Accordingly



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614 Division Street, MS 26
Port Orchard, WA 98366

CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

HVAC SCHEDULES

Drawing: **M5.01**
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File: COMPLETE
Date: September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: M6.01 Plot date: Sep 24, 2025-01:03:52pm CAD User: lmo.

SEQUENCE OF OPERATION – VRF/FCU					CONTROLLER WHEN THE VRF SYSTEM IS IN OCCUPIED MODE. THE ERV SHALL MAINTAIN OCCUPIED/ENABLE STATUS THROUGHOUT SCHEDULED OR UNSCHEDULED OCCUPANCY.					OUTSIDE VENTILATION AIR SHALL NOT ENTER THE SYSTEM DURING MORNING WARM–UP AND MORNING COOL–DOWN. THE ERV/DOAS UNIT, SHALL NOT RUN DURING MORNING WARM–UP AND MORNING COOL–DOWN. OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED AND OUTSIDE AIR FANS SHALL NOT RUN DURING MORNING WARM–UP AND MORNING COOL–DOWN.				
GENERAL SYSTEM DESCRIPTION AND REQUIREMENTS:					TEMPERATURE CONTROL					SAFETIES AND ALARMS:				
THE FAN COIL UNITS (FCU) ARE EQUIPPED WITH VARIABLE REFRIGERANT FLOW OR VARIABLE REFRIGERANT VOLUME (VRF/VRV). THE FCUs SHALL BE FULLY CONTROLLED BY THE MANUFACTURER’S ELECTRONIC CONTROLLERS AND CONTROL SYSTEM.					THE VRF SYSTEM SHALL MONITOR THE INDIVIDUAL SPACE TEMPERATURES SERVED BY THE FCU.					ANNUNCIATE ALARMS AT THE VRF SYSTEM’S INTELLIGENT TOUCH MODULE (VRF SYSTEM GRAPHICAL INTERFACE) WHEN ANY OF THE FOLLOWING EVENTS OCCUR.				
PROVIDE GRAPHICAL DISPLAY AND INTERFACE (INTELLIGENT TOUCH MODULE) TO THE SYSTEM DESCRIBED IN THIS DOCUMENT AND SHOWN ON THE DESIGN DRAWINGS. INCLUDE AND PROVIDE ACCESS TO ALL POINTS AVAILABLE TO THE VRF SYSTEM INTERFACE MODULE. ALL SETPOINTS, TIME SCHEDULE SETTINGS AND OTHER VALUES SHALL BE OPERATOR ADJUSTABLE UNLESS INDICATED OTHERWISE.					THE VRV/VRF CONTROLLER SHALL MODULATE THE SYSTEM TO MAINTAIN SPACE TEMPERATURE SETPOINT.					VRF/VRV				
PROVIDE ROOM THERMOSTATS/SENSORS WITH THE ABILITY TO TEMPORARILY PLACE THE SYSTEM IN OCCUPIED MODE.					NIGHT SETBACK:					ALL SYSTEM AND DIAGNOSTIC ALARMS FROM VRV/VRF SYSTEM.				
PROVIDE ROOM THERMOSTATS/SENSORS WITH THE ABILITY TO ADJUST SETPOINTS +/- 3° F.					WHEN UNIT IS IN UNOCCUPIED MODE AND THE SPACE TEMPERATURE REACHES 65° F, THE VRF SYSTEM SHALL ENABLE FCUs IN THE CORRESPONDING ZONE. WHEN THE ZONE/SPACE TEMPERATURE REACHES 70° F THE VRF SYSTEM SHALL TOGGLE BACK TO UNOCCUPIED MODE.					FAN FAILURE				
INITIAL DEFAULT ROOM TEMPERATURE SETPOINTS SHALL BE 68 DEGREES FOR HEATING AND COOLING.					NIGHT SETUP:					ALARM WHEN CONTROLLER SENDS START OR STOP SIGNAL TO FAN AND THERE IS NO PROOF OF STATUS ALIGNMENT FOR ONE (1) MINUTE.				
UNIT OPERATION:					WHEN UNIT IS IN UNOCCUPIED MODE AND THE SPACE TEMPERATURE REACHES 85° F, THE VRF SYSTEM SHALL ENABLE FCUs IN THE CORRESPONDING ZONE. WHEN THE ZONE/SPACE TEMPERATURE REACHES 80° F THE VRF SYSTEM SHALL TOGGLE BACK TO UNOCCUPIED MODE.									
THE UNIT SHALL BE FULLY CONTROLLED BY THE MANUFACTURER’S CONTROL SYSTEM.					MORNING WARM–UP/COOL–DOWN OPTIMIZATION									
THE VRF SYSTEM SHALL INDEX THE SYSTEM TO OCCUPIED MODE AT 7:00 AM TO 6:00 PM. WHEN NOT IN OCCUPIED MODE THE VRF SYSTEM SHALL INDEX THE SYSTEM TO UNOCCUPIED MODE.					THE CONTROL SYSTEM SHALL “LEARN” THE THERMAL CHARACTERISTICS OF THE BUILDING AND AIR DISTRIBUTION SYSTEMS TO PROVIDE OPTIMUM START TIMES FOLLOWING NIGHT SETBACK AND NIGHT SETUP. THE OPTIMUM START TIMES SHALL BE BASED ON LOGGED WARM–UP TIMES, COOL–DOWN TIMES, OUTSIDE AIR TEMPERATURES AND TIME OF DAY. THE CONTROL SYSTEM SHALL REFINE THE OPTIMUM START TO BE THE LATEST TIME TO HAVE THE SPACES UP TO OCCUPIED TEMPERATURE BY THE BEGINNING OF THE OCCUPIED PERIOD.									
OUTSIDE AIR/VENTILATION CONTROL					WHEN THE SYSTEM IS IN MORNING WARM–UP/COOL–DOWN MODE, THE CONTROL SYSTEM SHALL ENABLE THE ASSOCIATED INTERLOCKED EQUIPMENT.									
THE ERV SHALL RECEIVE AN ENABLE COMMAND FROM THE VRF SYSTEM														
SEQUENCE OF OPERATIONS – ERV														
GENERAL SYSTEM DESCRIPTION AND REQUIREMENTS:					ERV SUPPLY TEMPERATURE SETPOINT RESET SCHEDULE:					AIR FILTERS				
THE ENERGY RECOVERY VENTILATORS (ERV) ARE EQUIPPED WITH ECM SUPPLY FAN AND ECM EXHAUST FAN. ERV–1 AND ERV–2 ARE EQUIPPED WITH SCR ELECTRIC PREHEAT AND SCR HEATING COILS, ERV–3 IS EQUIPPED WITH SCR HEATING COIL AND DIRECT EXPANSION COIL (DX–1), AND ERV–4 IS EQUIPPED WITH SCR PREHEAT COIL.					OAT 65° F – SAT 72° F OAT 75° F – SAT 70° F					THE ERV CONTROLLOR SHALL MONITOR THE DIFFERENTIAL PRESSURE SWITCH ACROSS SPECIFIED FILTERS AND SHALL PROVIDE AN ALARM WHEN THE PRESSURE DROP EXCEEDS THE SETPOINT.				
THE ERVS SHALL BE CONTROLLED BY THE MANUFACTURER PROVIDED ELECTRONIC CONTROLLER.					PREHEAT:					ALL SYSTEM AND DIAGNOSTIC ALARMS FROM THE ERV SYSTEM.				
PROVIDE GRAPHICAL DISPLAY AND INTERFACE (INTELLIGENT TOUCH MODULE) TO THE SYSTEM DESCRIBED IN THIS DOCUMENT AND SHOWN ON THE DESIGN DRAWINGS. INCLUDE AND PROVIDE ACCESS TO ALL POINTS AVAILABLE TO THE ERV SYSTEM INTERFACE MODULE. ALL SETPOINTS, TIME SCHEDULE SETTINGS AND OTHER VALUES SHALL BE OPERATOR ADJUSTABLE UNLESS INDICATED OTHERWISE.					WHEN THE SUPPLY AIR TEMPERATURE IS 5°F BELOW THE SUPPLY AIR TEMPERATURE SETPOINT ENABLE THE ELECTRIC PREHEAT AND MODULATE THE SCR ELECTRIC HEATING COIL TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT. THE SYSTEM CONTROLLER SHALL DISENGAGE THE ELECTRIC HEATING COIL WHEN THE SUPPLY AIR TEMPERATURE IS 2° F ABOVE SETPOINT.					FAN FAILURE				
UNIT OPERATION:					FUME HOOD MAKEUP AIR (ERV–1 AND ERV–2 ONLY):					ALARM WHEN CONTROLLER SENDS START OR STOP SIGNAL TO FAN AND THERE IS NO PROOF OF STATUS ALIGNMENT FOR ONE (1) MINUTE.				
THE UNIT SHALL BE FULLY CONTROLLED BY THE MANUFACTURER’S CONTROL SYSTEM.					UPON A SIGNAL THAT WEST LAB FUME HOOD EXHAUST FAN (EF–1) IS ENABLED, ERV–1 EXHAUST FAN SHALL CEASE OPERATION AND SUPPLY FAN SHALL CONTINUE NORMAL OPERATION. ERV–1 EXHAUST FAN SHALL ENABLE ONCE EF–1 HAS SIGNED BEING DISABLED.									
THE ERV SHALL RECEIVE AN ENABLE SIGNAL FROM THE VRF/FCU SYSTEM WHEN THE SYSTEM IS IN OCCUPIED MODE.					UPON A SIGNAL THAT EAST LAB FUME HOOD EXHAUST FAN (EF–4) IS ENABLED, ERV–2 EXHAUST FAN SHALL CEASE OPERATION AND SUPPLY FAN SHALL CONTINUE NORMAL OPERATION. ERV–2 EXHAUST FAN SHALL ENABLE ONCE EF–4 HAS SIGNED BEING DISABLED.									
ECM FAN MOTOR CONTROL:					SAFETIES AND ALARMS:									
THE ECM FAN SPEED FOR THE SUPPLY FAN AND EXHAUST FAN SHALL BE SET TO MAINTAIN THE AIRFLOW SPECIFIED ON THE EQUIPMENT SCHEDULE. THE AIR BALANCER SHALL DETERMINE THE FAN SPEED SETTINGS.					ANNUNCIATE ALARMS AT THE VRF SYSTEM’S INTELLIGENT TOUCH MODULE (VRF SYSTEM GRAPHICAL INTERFACE) WHEN ANY OF THE FOLLOWING EVENTS OCCUR.									

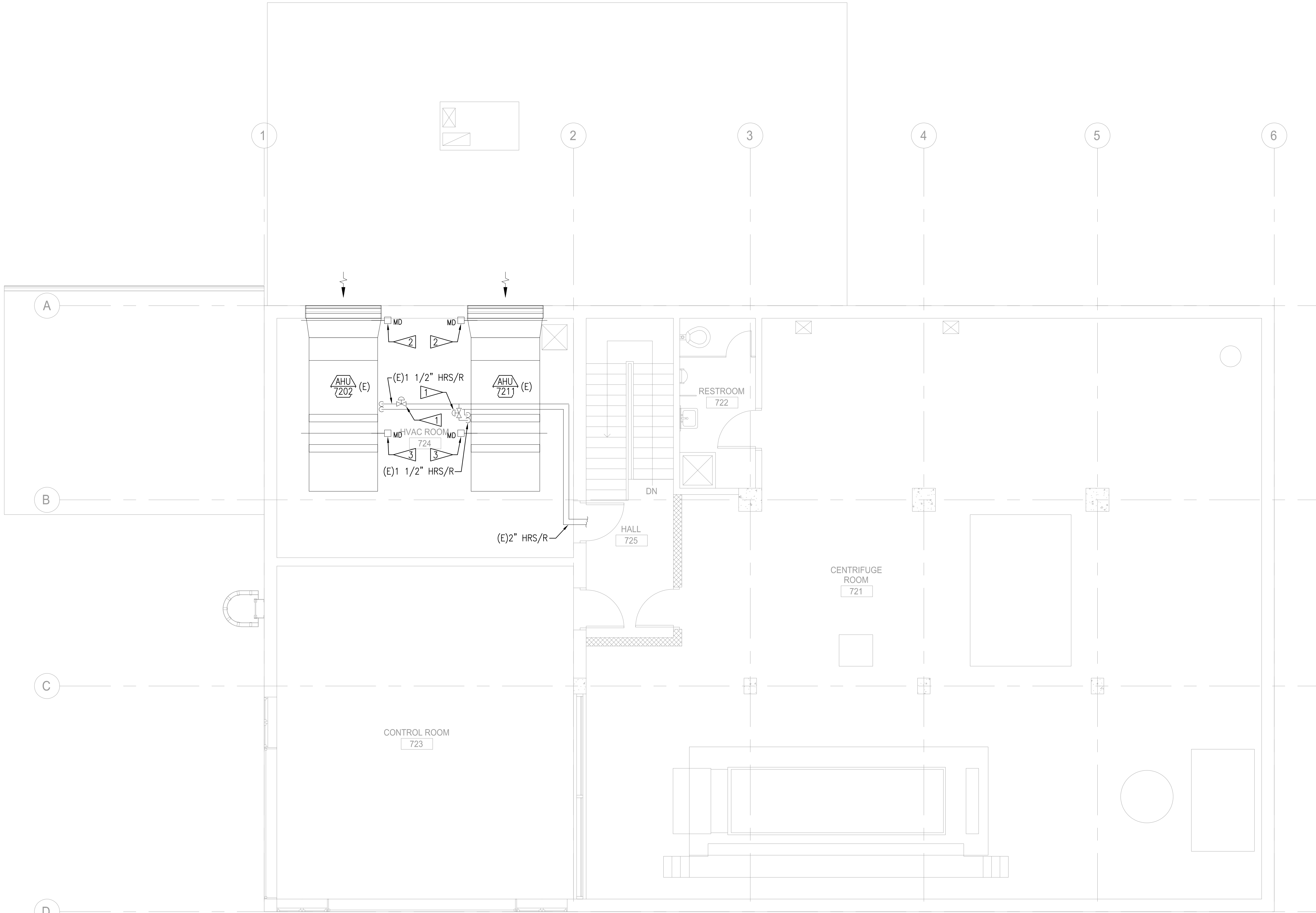
CONSTRUCTION NOTES

- 1

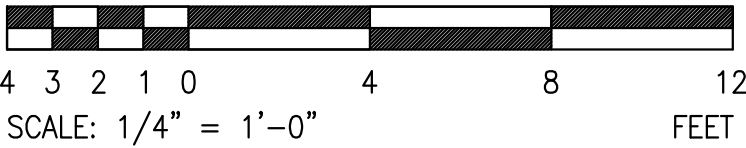
PROVIDE AND INSTALL 1-1/2" MOTORIZED 2-WAY CONTROL VALVE ON EXISTING HEATING HOT WATER RETURN PIPING TO HEATING COIL. INSTALL CONTROL VALVE DOWNSTREAM OF EXISTING ISOLATION VALVE.
- 2

REMOVE EXISTING OUTSIDE AIR DAMPER AND DAMPER ACTUATOR. PROVIDE AND INSTALL NEW OUTSIDE AIR DAMPER AND DAMPER ACTUATOR. REPLACE SCREENING ON LOUVERS.
- 3

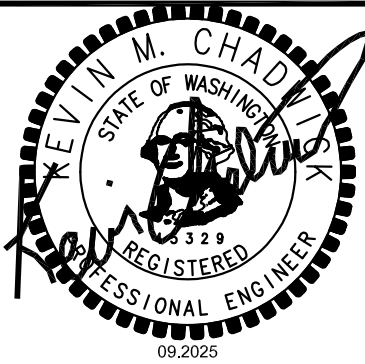
REMOVE EXISTING DAMPER ACTUATOR FOR BYPASS AIR DAMPER. PROVIDE AND INSTALL ACTUATOR FOR EXISTING MOTORIZED BYPASS AIR DAMPER.



 1 **PROCESS BUILDING - HVAC FLOOR PLAN**
SCALE: 1/4"=1'-0"



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No.	Revision	Date	By	App'd



Designed: MSS

Drawn: WHB

Checked:

Scale:

1/4" = 1'-0"

One Inch at Full Scale
If Not One Inch
Scale Accordingly



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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**PROCESS BUILDING
HVAC FLOOR PLAN**

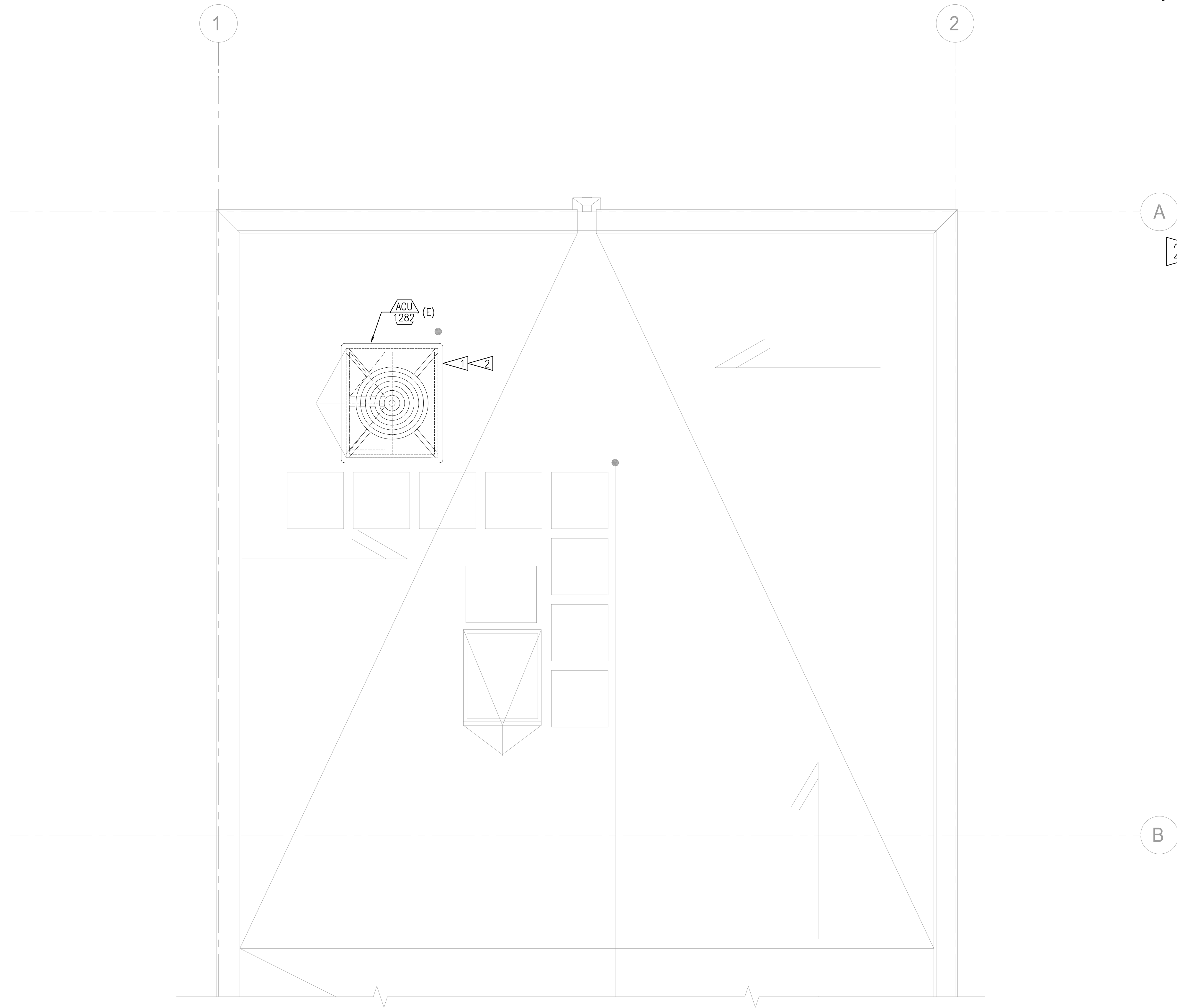
Drawing: **M7.01**

Sheet: 28 of 47

File: COMPLETE

Date: September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: M8.01-HW Plot date: Sep 24, 2025-01:12:31pm CAD User: lino.



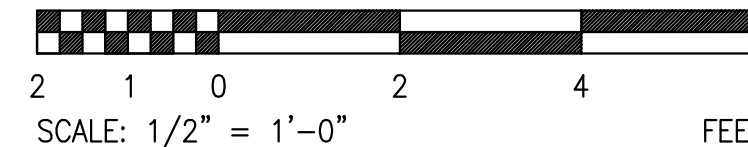
CONSTRUCTION NOTES

- EXISTING UNIT TO BE REMOVED AND REPLACED WITH ROOFTOP AIR CONDITIONING UNIT (ACU) OF EQUIVALENT FUNCTIONALITY. EXISTING MANUFACTURER, MODEL, AND SERIAL NUMBER ARE PROVIDED FOR REFERENCE: TRANE 4TCY4024A1000AA / SN: 10104LGY9H; ALL EXISTING FEATURES, INCLUDING BUT NOT LIMITED TO HEATER SIZE, PRESENCE OF CRANKCASE HEATER, PRESENCE OF ECONOMIZER, AND CURB COMPATIBILITY, SHALL BE MET BY THE REPLACEMENT UNIT. ACU UNIT COILS AND CONDENSER SHALL HAVE FACTORY-APPLIED HERESITE COATING; ALL EXTERNAL COMPONENTS SHALL ALSO HAVE APPROPRIATE CORROSION-RESISTANT COATINGS.
- REPLACE THE EXISTING ROOFTOP ACU INCLUDING MINOR MODIFICATIONS (IF NEEDED) TO EXISTING CURB AND/OR ROOF STRUCTURE; CONNECT/DISCONNECT POWER; DELIVER, PLACE AND SECURE ACU ON ROOF; REMOVE OLD UNIT AND PROPERLY DISPOSE; CONDUCT START UP AND COMMISSIONING.



1 HEADWORK BUILDING - HVAC ROOF PLAN

SCALE: 1/2" = 1'-0"



No.	Revision	Date	By	App'd



Designed: MSS

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Checked:

Scale:

1/2" = 1'-0"

One Inch at Full Scale
If Not One Inch
Scale Accordingly



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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**HEADWORK BUILDING
HVAC ROOF PLAN**


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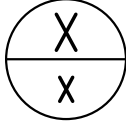
Drawing:	M8.01
Sheet:	29 of 47
File:	COMPLETE
Date:	September 2025

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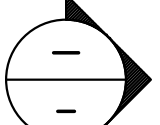
GENERAL LEGEND



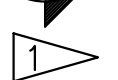
NORTH ARROW




DETAIL/DRAWING REFERENCE




SECTION REFERENCE




CONSTRUCTION NOTE




REVISION SYMBOL



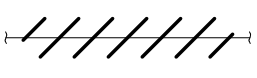
POINT OF CONNECTION



BOLD LINE WEIGHT INDICATES NEW WORK

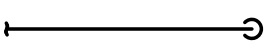


LIGHT LINE WEIGHT INDICATES EXISTING WORK

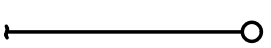


SLASHED LINE INDICATES EXISTING WORK TO BE DEMOLISHED

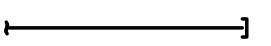
GENERAL ELECTRICAL LEGEND




CONDUIT DOWN



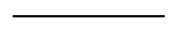
CONDUIT UP



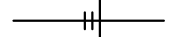
CONDUIT CAPPED



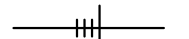
CONDUIT HOMERUN WITH PANEL DESIGNATION




2#12 - 1/2" C



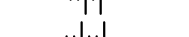
2#12 & 1#12 NEUTRAL - 1/2" C



3#12 & 1#12 NEUTRAL - 1/2" C




3#12 & 2#12 NEUTRAL - 1/2" C




4#12 & 2#12 NEUTRAL - 3/4" C


POWER LEGEND




THERMOSTAT




PHOTOELECTRIC SMOKE DETECTOR (120V IN APATMENT UNITS, POWERED BY FIRE ALARM SYSTEM ELSEWHERE)




QUAD RECEPTACLE, GROUNDED




DUPLEX RECEPTACLE




SINGLE RECEPTACLE




DUPLEX RECEPTACLE, ISOLATED GROUND




DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION




DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION AND WATER RESISTANT RECEPTACLE




FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE




JUNCTION BOX, WALL MOUNTED




JUNCTION BOX, CEILING MOUNTED




JUNCTION BOX, FLOOR MOUNTED




MOTOR CONNECTION




MOTOR




TRANSFORMER




DISCONNECTED SWITCH




FUSED DISCONNECTED SWITCH



SURFACE MOUNTED PANELBOARD




FLUSH MOUNTED PANELBOARD




EQUIPMENT CONNECTION, REFER TO DESCRIPTION ON PLANS FOR WHICH SPECIFIC EQUIPMENT CONNECTION


COMMON EQUIPMENT CONNECTIONS:




120V CONNECTION TO WATER HEATERS




120V CONNECTION TO EXHAUST FAN




120V CONNECTION TO MOTORIZED DAMPER



120V CONNECTION TO FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR




120V CONNECTION TO FIRE ALARM SYSTEM FIRE SMOKE DETECTOR




EQUIPMENT TAG


LIGHTING LEGEND (REFER TO LUMINAIRE SCHEDULE FOR PROJECT SPECIFIC LIGHTING FIXTURES)




SINGLE POLE SWITCH




DUAL LEVEL SWITCH




THREE WAY SWITCH




FOUR WAY SWITCH




DIMMER SWITCH




KEY OPERATED SWITCH




MOMENTARY CONTACT SWITCH




PILOT LIGHT SWITCH




SPRING WOUND TIMER SWITCH




MOTOR RATED SWITCH




OCCUPANCY SENSOR, WALL MOUNTED




LIGHTING SWITCH: SCENE SELECTION STATION




LIGHTING REMOTE CONTROL MODULE




OCCUPANCY SENSOR, CEILING MOUNTED




LIGHT FIXTURE CALLOUT




ILLUMINATED EXIT SIGN, ARROWS AS INDICATED WITH BUILT IN BATTERY.




ILLUMINATED EXIT SIGN WITH BUILT IN BATTERY.




EMERGENCY WALL PACK WITH BATTERY PACK




2' X 2' LED LIGHT




2' X 2' LED LIGHT, EGRESS




1' X 4' LED LIGHT




1' X 4' LED LIGHT, EGRESS




2' X 4' LED LIGHT




2' X 4' LED LIGHT, EGRESS




FAN LIGHT, CEILING MOUNTED




LED LIGHT, WALL MOUNTED




LED LIGHT, WALL MOUNTED, EGRESS




LED LIGHT, CEILING MOUNTED




LED LIGHT, CEILING MOUNTED, EGRESS



LED LIGHT, TRACK LIGHTING



OUTSIDE LIGHT FIXTURES



PARKING LOT POLE LIGHT

GENERAL BIDDING CONSTRUCTION NOTES

- THE CONTRACTOR SHALL PROVIDE COMMISSIONING TO ALL SYSTEMS REQUIRED BY NEC AND LOCAL AHJ.
- THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- IT IS NOT THE INTENT OF THE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE FOR ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITIONS ANY DAMAGE TO BUILDING SURFACES, EQUIPMENT, ETC CAUSED DURING THE PERFORMANCE OF WORK.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE OR DELAYS AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN CONSEQUENTIALLY DAMAGED.
- LIGHTING MUST MEET WA STATE ENERGY CODE REQUIREMENTS.

SYSTEMS NOT COVERED BY DESIGN SCOPE – CONTRACTOR'S RESPONSIBILITY:

1.

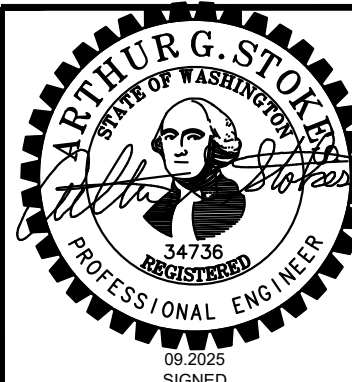
ALL DEMO AND RESTORING WORK THAT SHALL AFFECT LIFE SAFETY SYSTEMS (FIRE ALARM) SHALL COMPLY WITH NEC 760 AND NFPA 72.

IMPORTANT CODE NOTES

APPLICABLE BUILDING CODES:
2021 IBC – WA AMENDMENTS
2023 NEC – WA AMENDMENTS
2021 IFC WITH WASHINGTON AMENDMENTS
2021 WSEC

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Drawing: **E0.00**

Sheet: 30 of 47

File: COMPLETE

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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

ELECTRICAL LEGEND AND GENERAL NOTES

ELECTRICAL ABBREVIATIONS

A	AMPERE	OS	OCCUPANCY SENSOR
AC	ALTERNATING CURRENT, ABOVE COUNTER	PC	PHOTOCELL
AFF	ABOVE FINISHED FLOOR	PNL	PANEL
AIC	AMPERE INTERRUPTING CAPACITY	POC	POINT OF CONNECTION
AL	ALUMINUM	PT	POTENTIAL TRANSFORMER
AMP	AMPERE	PVC	POLYVINYL CHLORIDE
ATS	AUTOMATIC TRANSFER SWITCH	PWR	POWER
AWG	AMERICAN WIRE GAUGE		
BRKR	BREAKER	QTY	QUANTITY
BLDG	BUILDING	R	EXISTING TO BE REMOVED
BOH	BACK OF HOUSE	RC	REGID CONDUIT
		RECEPT	RECEPTACLE
C	CONDUIT	ROMEX	ELECTRICAL NM CABLE
CKT	CIRCUIT		
CB	CIRCUIT BREAKER	SD	SMOKE DETECTOR
CCTV	CLOSED CIRCUIT TELEVISION	SER	SERVICE ENTRANCE CABLE
CLG	CEILING	SPEC	SPECIFICATIONS
CO	CONDUIT ONLY/CARBON MONOXIDE	SSBJ	SUPPLY SIDE BONDING JUMPER
COMM	COMMUNICATIONS	SW	SWITCH
CPLC	CONTROL PANEL LIGHTING CONTROL	SWBD	SWITCHBOARD
CT	CURRENT TRANSFORMER	SWGR	SWITCHGEAR
CU	COPPER		
CW	COOL WHITE	TEL	TELEPHONE
		TJB	TELECOMMUNICATIONS J-BOX
D/B	DESIGN/BUILD	TTB	TELEPHONE TERMINAL BOARD
DCO	DUPLEX CONVENIENCE OUTLET	TYP	TYPICAL
DISP	GARBAGE DISPOSAL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
DN	DOWN		
DS	DISCONNECT SWITCH	UL	UNDERWRITERS LABORATORIES
DW	DISHWASHER	UG	UNDERGROUND
		U.O.N.	UNLESS OTHERWISE NOTED
E	EXISTING TO REMAIN	UTIL	UTILITY
EF	EXHAUST FAN		
ELEC	ELECTRICAL	V	VOLTS
EMT	ELECTRICAL METALLIC TUBING	VD	VOLTAGE DROP
ENT	ELECTRICAL NON-METALLIC TUBING	VFD	VARIABLE FREQUENCY DRIVE
ERRCS	EMERGENCY RADIO RESPONDER COVERAGE SYSTEM	VS	VACANCY SENSOR
EQUIP	EQUIPMENT		
EXIST	EXISTING	W	WATTS
		W/	WITH
FACP	FIRE ALARM CONTROL PANEL	WCR	WITHSTAND AND CLOSE-IN RATING
FATC	FIRE ALARM TERMINAL CABINET	WP	WEATHERPROOF
F.C.I.O.	FURNISHED BY CONTRACTOR, INSTALLED BY OWNER	WW	WARM WHITE
F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR		
FLUOR	FLUORESCENT	XFMR	TRANSFORMER
FOH	FRONT OF HOUSE	XFR	TRANSFER IMPEDANCE OR ZONE
GEC	GROUND ELECTRODE CONDUCTOR		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
GFP	GROUND FAULT PROTECTION		
GND	GROUND		
GRS	GALVANIZED RIGID STEEL		
HID	HIGH INTENSITY DISCHARGE		
HP	HORSE POWER		
HPWH	HEAT PUMP WATER HEATER		
HT	HEAT TRACE		
HTR	HEATER		
IC	INSULATED CEILING		
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IG	ISOLATED GROUND		
J-BOX/JB	JUNCTION BOX		
JT	JOINT TRENCH		
KCMIL	THOUSAND CIRCULAR MILLS		
KEC	KITCHEN EQUIPMENT CONTRACTOR		
KVA	KILOVOLT AMPERES		
KW	KILOWATT		
LOTO	LOCK-OUT-TAG-OUT		
LTG	LIGHTING		
MATV	MASTER ANTENNA TELEVISION		
MBJ	MAIN BONDING JUMPER		
MCA	MINIMUM CIRCUIT AMPACITY		
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANEL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MLO	MAIN LUGS ONLY		
MOP	MAXIMUM OVERCURRENT PROTECTION		
MPOE	MAIN POINT OF ENTRY		
MTD	MOUNTED		
N	NEUTRAL		
NIC	NOT IN CONTRACT		
NEC	NATIONAL ELECTRICAL CODE (NFPA-70)		
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION		
N.T.S.	NOT TO SCALE		
OC	ON CENTER		
OH	OVERHEAD		

Path: I:\22051 CKTP HVAC Upgrade\Working Drawl Filename: E0.01 Plot date: Aug 27, 2025-02:53:28pm CAD User: chriso.

No.	Revision	Date	By	App'd



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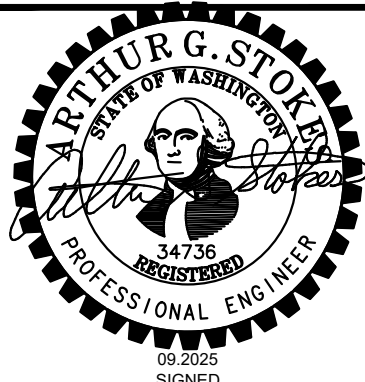


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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

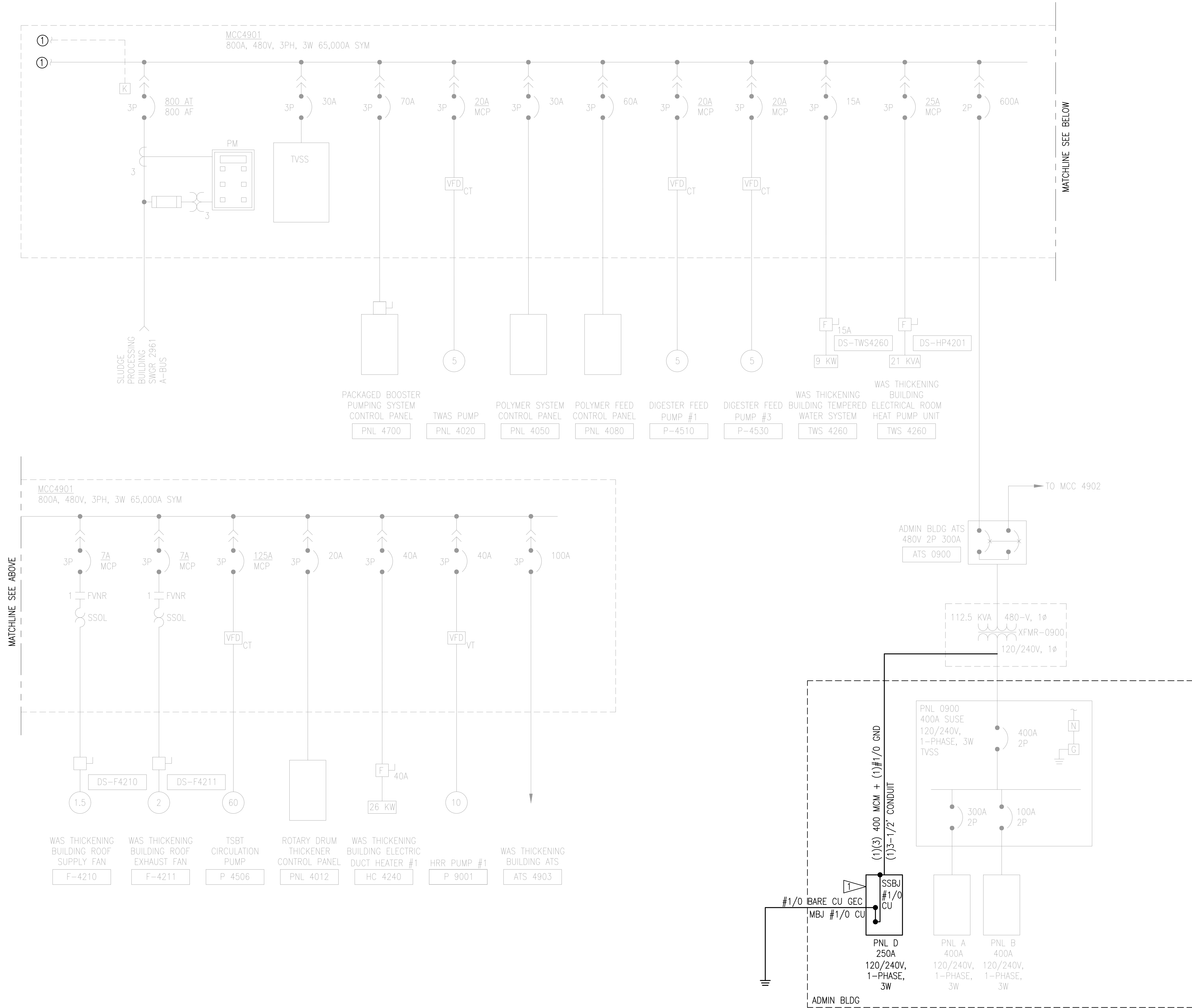
ELECTRICAL ABBREVIATIONS

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Drawing:	E0.01
Sheet:	31 of 47
File:	COMPLETE
Date:	September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Drawl Filename: E0.02 Plot date: Aug 27, 2025-02:53:33pm CAD User: chriso.



GENERAL NOTES

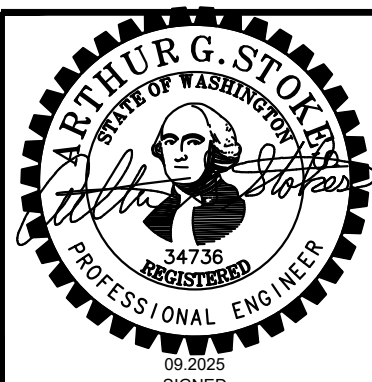
1. THE CONTRACTOR SHALL KEEP POWER INTERRUPTIONS TO A MINIMUM. POWER INTERRUPTIONS SHALL BE OUTSIDE WORKING HOURS.
2. THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT AND WIRE PRIOR TO DEMOLISHING ANY EXISTING SYSTEMS. CONTRACTOR SHALL MINIMIZE INDIVIDUAL EQUIPMENT POWER INTERRUPTIONS BY TRANSFERRING THE EQUIPMENT FROM THE OLD TO THE NEWLY INSTALLED SYSTEMS.
3. THE CONTRACTOR SHALL PERFORM THE WORK AND MAINTAIN PANEL A&B AND ALL THEIR RELATED CABLES/CIRCUIT BREAKERS NOT REPLACED.
4. ADD PLACARD NEXT TO PNL D INDICATING THE LOCATION OF ALL DISCONNECTING MEANS TO DE-ENERGIZE THE BUILDING.

CONSTRUCTION NOTES

1 NEW ADDED PANEL.



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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**ONE-LINE DIAGRAM - ADMINISTRATIVE
AND LABORATORY BUILDING**

Drawing: **E0.02**

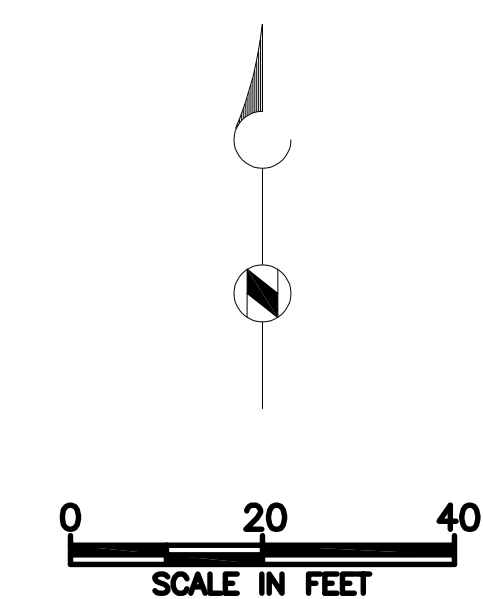
Sheet: 32 of 47

File: COMPLETE

Date: September 2025

1. ALL UG CONDUITS SHALL BE SEALED FROM WATER AND MOISTURE.

1. COUNTY SEWER UTILITY WILL PROVIDE AND INSTALL PLACARD INDICATING THE LOCATION OF THE BUILDING DISCONNECT MEANS WHICH IS THE MAIN CB FOR PANEL 0900 AND THE MAIN CB FOR PANEL D.
2. ADD NEW CONDUCTORS FROM THE TRANSFORMER (UPGRADE THE XFMR LUGS IF NO SPACE AVAILABLE) TO NEW PANEL D.
3. ADMIN AND LABORATORY BUILDING AREA OF WORK ON THIS DRAWING



No.	Revision	Date	Bv	App'd



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POWER - SITE LAYOUT - ADMINISTRATIVE AND LABORATORY BUILDING

Drawing:	E0.03
Sheet:	33 of 47
File:	COMPLETE
Date:	September 2025

Path: I:\22051 CKTP HVAC Upgrade\Working Drawl Filename: ED1.01 Plot date: Aug 27, 2025-02:54:04pm CAD User: chriso.

DEMOLITION NOTES

- 1

ALL PANELS SHALL REMAIN AS IS. DEMO ONLY CIRCUITS INDICATED AND CONDUITS FROM THE EQUIPMENT TO THE PANELBOARD. DO NOT REMOVE CIRCUIT BREAKERS OR ANY PANEL COMPONENTS.
- 2

DEMO THE ELECTRICAL RELATED TO THE HEAT RECOVERY UNIT.
- 3

DE-ENERGIZE EF-4, EF-2 AND EF-1 (THE EXHAUST FAN FOR THE FUME HOOD AT WEST LAB) UNTIL ALL WORK RELATED TO IT IS FINISHED THEN RESTORE POWER ON SAME CIRCUIT AGAIN.
- 4

DEMO THE ELECTRICAL RELATED TO CU-1, SS-1, CU-3, SS-3 AND AC-1.
- 5

DEMO THE ELECTRICAL RELATED TO THE CABINET HEATERS.
- 6

DEMO THE ELECTRICAL RELATED TO THE CONDENSING UNIT. REFER TO THE MECHANICAL DRAWINGS FOR CONDENSING UNIT SUBJECT TO DEMOLITION.
- 7

DEMO THE ELECTRICAL RELATED TO THE EXHAUST FANS.

GENERAL NOTES

1.

RESTORE ELECTRICAL POWER TO EQUIPMENT AFFECTED BY DEMO WORK. RESTORED CONNECTIONS SHALL COMPLY WITH THE CURRENT NEC VERSION.
2.

USE FIRE STOP TO FILL THE HOLES AND MAINTAIN THE FIRE RATING OF THE WALLS AFTER DEMOLITION OF PENETRATING CONDUITS.
3.

THE ELECTRICAL INSTALLATIONS WITHIN THE DEMOLITION SCOPE SHALL BE REMOVED TOTALLY TO THE PANELBOARD. THE CIRCUIT BREAKERS SHALL REMAIN.
4.

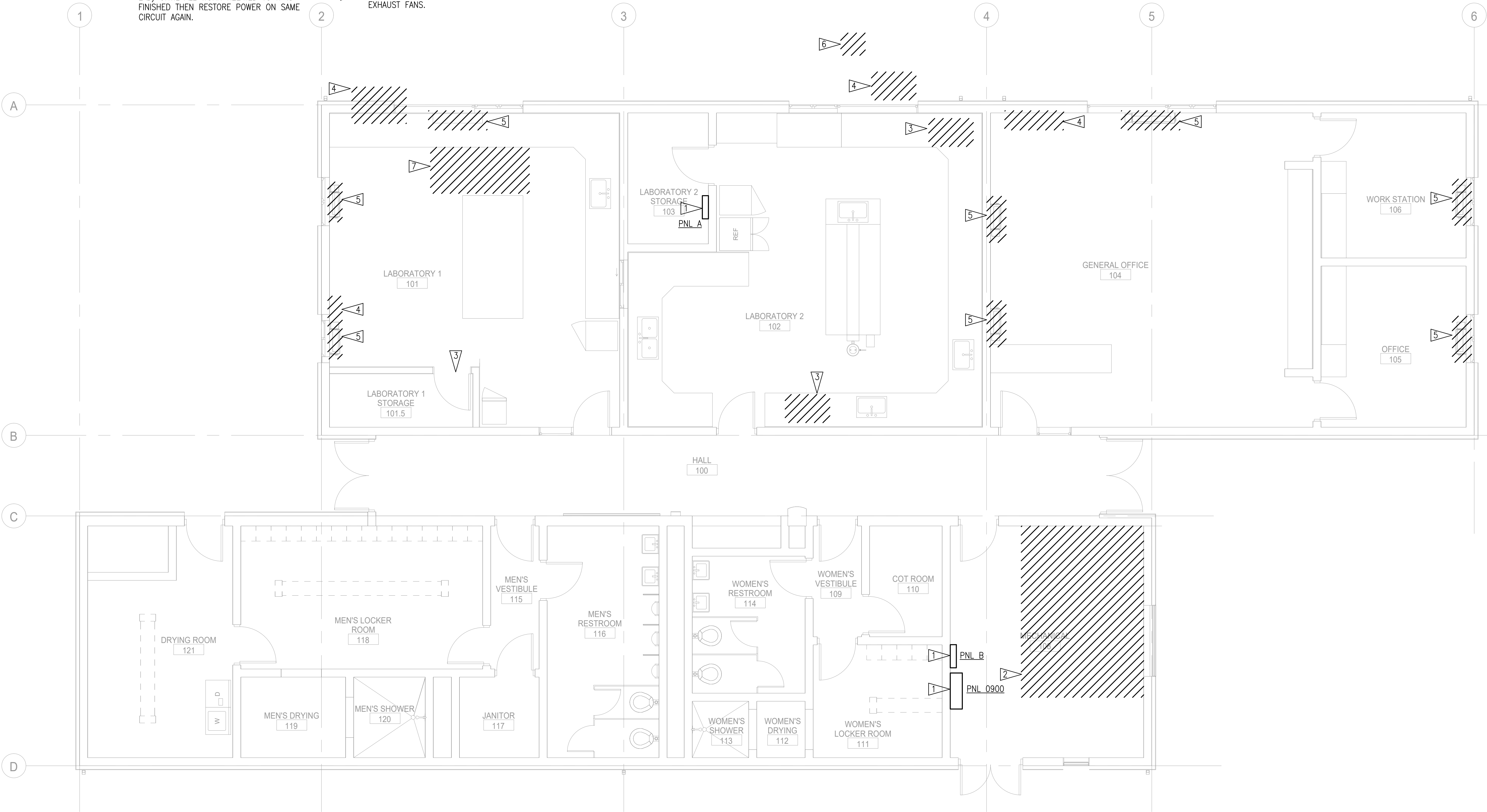
PANELBOARD PENETRATIONS SHALL BE SEALED PER NEC REQUIREMENTS.
5.

MAINTAIN POWER INTEGRITY TO ALL EQUIPMENT NOT SUBJECT TO DEMOLITION.
6.

POWER INTERRUPTION SHALL BE OUTSIDE THE WORKING HOURS OF THE LAB, AND THE INTERRUPTION PERIODS SHALL BE AS MINIMAL AS POSSIBLE AND COORDINATED WITH OPERATIONS PERSONNEL.
7.

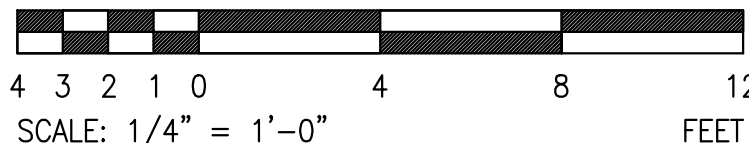
THE CONTRACTOR SHALL VERIFY AND COORDINATE THE EQUIPMENT TO BE DEMOLISHED WITH THE MECHANICAL SCOPE OF WORK.
8.

DEMO AND INSTALL SYSTEMS IN WEST AND EAST LABS IN COMPLIANCE WITH COUNTY-APPROVED LAB CONSTRUCTION PHASING PLAN.



1 POWER DEMOLITION - ADMINISTRATION AND LABORATORY BUILDING - LEVEL 1

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



No.	Revision	Date	By	App'd



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Scale:

1/4" = 1'-0"

One Inch at Full Scale
If Not One Inch
Scale Accordingly



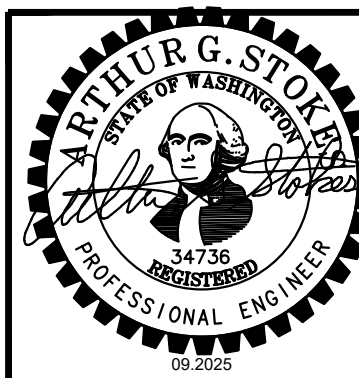
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

POWER DEMOLITION - ADMINISTRATION AND
LABORATORY BUILDING - LEVEL 1

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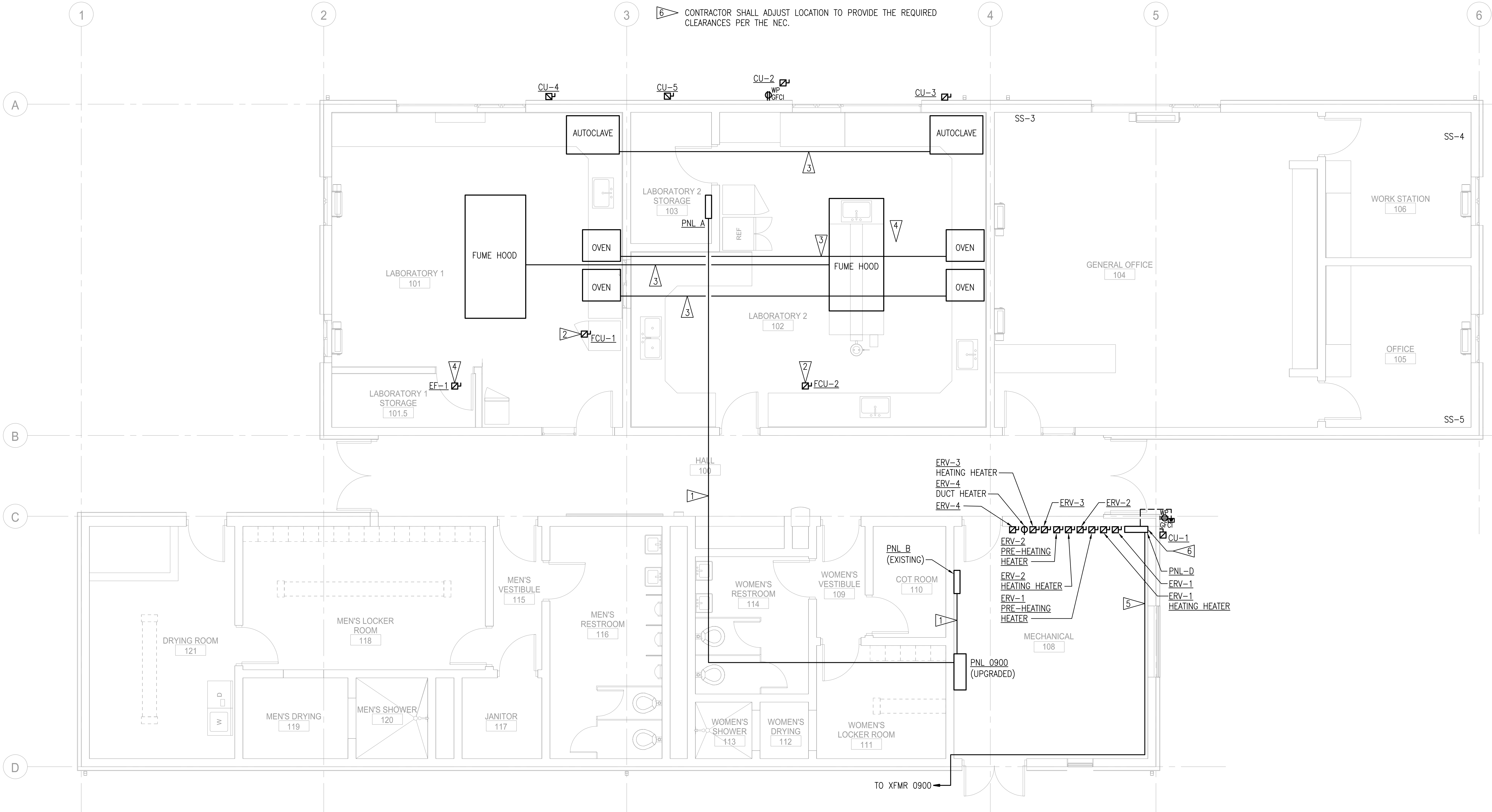
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CONSTRUCTION NOTES

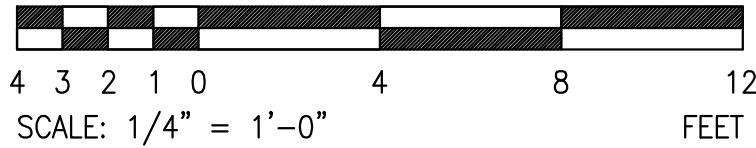
- 1
- DIAGRAMMATIC REPRESENTATION OF ELECTRICAL CONNECTION ONLY.
- 2
- DISCONNECTS SHALL BE ACCESSIBLE THROUGH THE ACCESS PANEL.
- 3
- CONNECT BY MEANS OF LOTO DS AND PIGTAIL TO ENSURE ONLY ONE LAB IS OPERATIONAL AT ONE TIME.
- 4
- RELOCATED EXHAUST FAN. UTILIZE THE OLD CIRCUIT.
- 5
- DE-ENERGIZE EF-4 AND EF-1 (THE EXHAUST FAN FOR THE FUME HOOD AT WEST LAB) UNTIL ALL WORK RELATED TO IT IS FINISHED THEN RESTORE POWER ON SAME CIRCUIT AGAIN.
- 6
- CONTRACTOR SHALL ADJUST LOCATION TO PROVIDE THE REQUIRED CLEARANCES PER THE NEC.

GENERAL NOTES

1.
- REFER TO THE LOADS SCHEDULE FOR CIRCUIT AND DISCONNECT SWITCH INFORMATION.
2.
- THE AUTOCLAVE, (2) OVENS AND FUME HOOD SHALL BE RELOCATED DURING OFF HOURS AND SHALL BE POWERED WITHOUT INTERRUPTION DURING OPERATIONAL HOURS. MAINTAIN POWER TO THESE DEVICES FOR OPERATIONS STAFF TO PERFORM THEIR WORK WITHOUT INTERRUPTION. DEMO AND INSTALL SYSTEMS IN WEST AND EAST LABS IN COMPLIANCE WITH COUNTY-APPROVED LAB CONSTRUCTION PHASING PLAN.
3.
-



1 POWER - ADMINISTRATION AND LABORATORY BUILDING - LEVEL 1
SCALE: 1/4"=1'-0"



No.	Revision	Date	By	App'd



Designed: FNG

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Checked:

Scale:

1/4" = 1'-0"

One Inch at Full Scale

If Not One Inch Scale Accordingly



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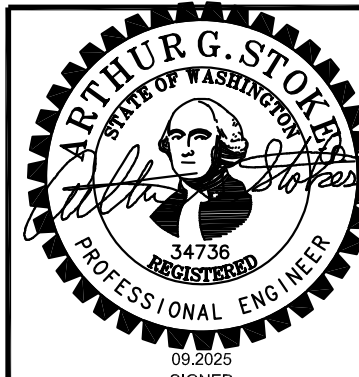
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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

POWER - ADMINISTRATION AND
LABORATORY BUILDING - LEVEL 1

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Drawing:	E1.01
Sheet:	35 of 47
File:	COMPLETE
Date:	September 2025

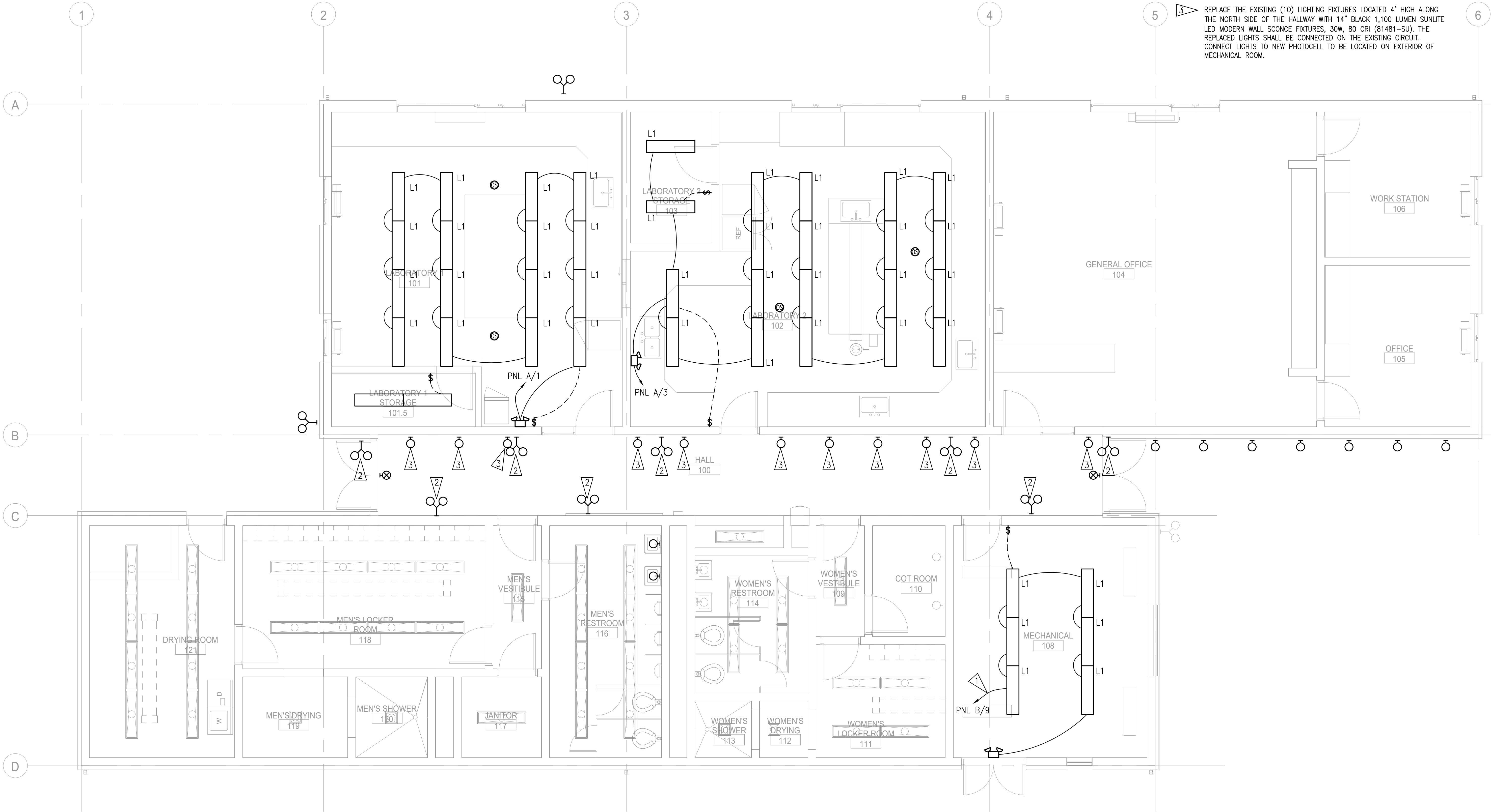
Path: \\fsi-iso1\job\22051 CKTP HVAC Upgrade\Working Drawl Filename: E2.01 Plot date: Sep 11, 2025-09:33:54am CAD User: Bill.

GENERAL NOTES

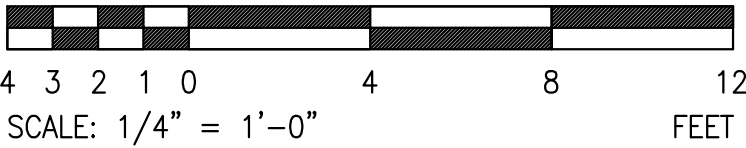
1. REPLACE ANY FLICKERING LIGHTING FIXTURE.
2. REPLACE ALL LIGHTING FIXTURES IN LAB ROOM 101 AND 102.
3. REMOVE THE EXISTING SMOKE DETECTOR IN LAB ROOM 101, AND COORDINATE WITH THE OWNER'S REPRESENTATIVE AND A LICENSED FIRE ALARM SPECIALIST FOR RE-INSTALLING ON THE NEW SUSPENDED CEILING AND ADDING EXTRA DETECTORS INSIDE THE VOID ABOVE THE SUSPENDED CEILING.
4. THE CONTRACTOR SHALL COORDINATE THE LIGHTING FIXTURES' LOCATIONS WITHIN THE MECHANICAL ROOM WITH ALL NEW AND EXISTING ITEMS WITHIN THE SPACE.

CONSTRUCTION NOTES

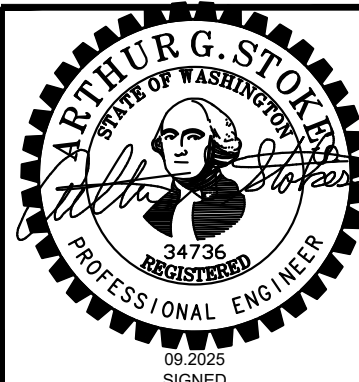
- 1 REPLACE THE LIGHTING IN THE MECH. ROOM WHILE KEEPING THE SAME CIRCUIT. COORDINATE THE EXACT LOCATION OF THE LIGHTING FIXTURES WITH THE COUNTY PRIOR TO CONSTRUCTION.
- 2 REPLACE THE EXISTING (8) LIGHTING FIXTURES LOCATED AT 12' HIGH ALONG BOTH SIDES OF THE HALLWAY (ROOM #100) WITH 6" BLACK 3,600 LUMEN PHOTOCELL EIKO/WESTPORT SURFACE MOUNTED CYLINDER WALL SCONCES (MODEL CWSP6S/36W/BCCT3/UNV/PC/BK OR EQUAL). THE REPLACED LIGHTS SHALL BE CONNECTED ON THE EXISTING CIRCUIT. CONNECT LIGHTS TO NEW PHOTOCELL TO BE LOCATED ON EXTERIOR OF MECHANICAL ROOM.
- 3 REPLACE THE EXISTING (10) LIGHTING FIXTURES LOCATED 4' HIGH ALONG THE NORTH SIDE OF THE HALLWAY WITH 14" BLACK 1,100 LUMEN SUNLITE LED MODERN WALL SCONCE FIXTURES, 30W, 80 CRI (81481-SU). THE REPLACED LIGHTS SHALL BE CONNECTED ON THE EXISTING CIRCUIT. CONNECT LIGHTS TO NEW PHOTOCELL TO BE LOCATED ON EXTERIOR OF MECHANICAL ROOM.



1 LIGHTING - ADMINISTRATION AND LABORATORY BUILDING - LEVEL 1
SCALE: 1/4"=1'-0"



Call 48 Hours
Before You Dig
1-800-424-5555
UNDERGROUND SERVICE



No.	Revision	Date	By	App'd



Designed: FNG

Drawn: WHB

Checked:

Scale:

1/4" = 1'-0"

One Inch at Full Scale
If Not One Inch
Scale Accordingly



Kitsap County Public Works

614 Division Street, MS 26
Port Orchard, WA 98366

CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

LIGHTING - ADMINISTRATION AND
LABORATORY BUILDING - LEVEL 1

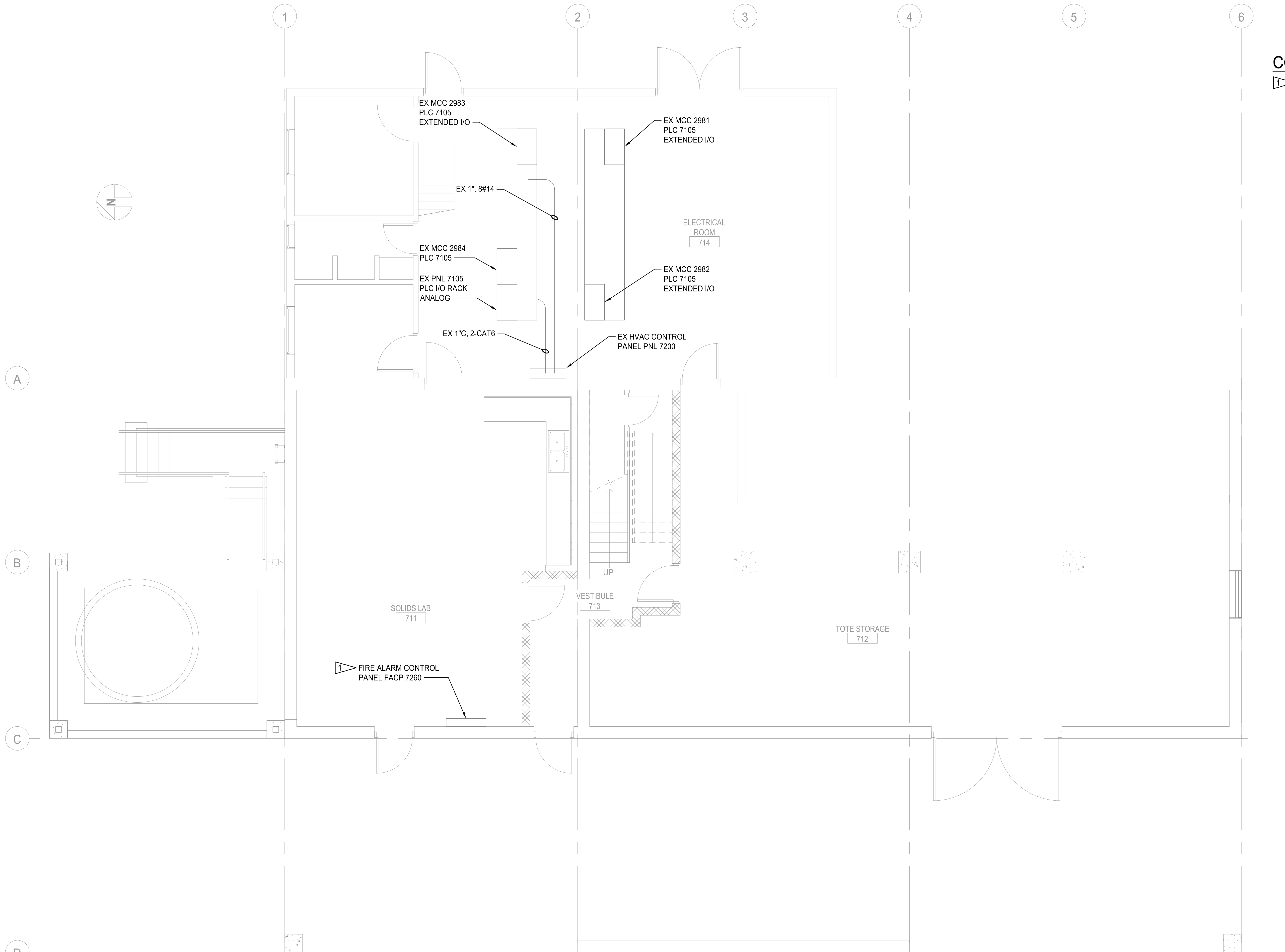
Drawing: E2.01

Sheet: 36 of 47

File: COMPLETE

Date: September 2025

Path: S:\Cad\Kitsap County\23-10865 CKTP HVAC System Repld File: 23-10865_E3.01 Plot date: Aug 28, 2025 03:59:07pm CAD User: J.Lira
Xref Filename: X23-10865_TB | X23-10865_CKWP_A_Process Bldg - GROUND FLOOR PLAN | Palmatier | X23-10865_Status | X23-10865_TB-FSL_24x36 | Dahl |



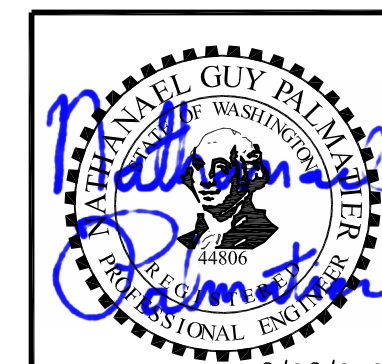
CONSTRUCTION NOTES

- 1 EXISTING FIRE ALARM CONTROL PANEL (FACP) IS SIEMENS...
MODIFICATIONS TO FACP ARE BY OTHERS.

1 POWER - PROCESS BUILDING - LEVEL 1
SCALE: 1/4"=1'-0"

4 3 2 1 0 4 8 12
SCALE: 1/4" = 1'-0" FEET

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No.	Revision	Date	By	App'd



Designed: N. Palmatier, P.E.
Drawn: A. Bradley
Checked: C. Orchiltree, P.E.

Scale:
1/4" = 1'-0"
One Inch at Full Scale
If Not One Inch
Scale Accordingly

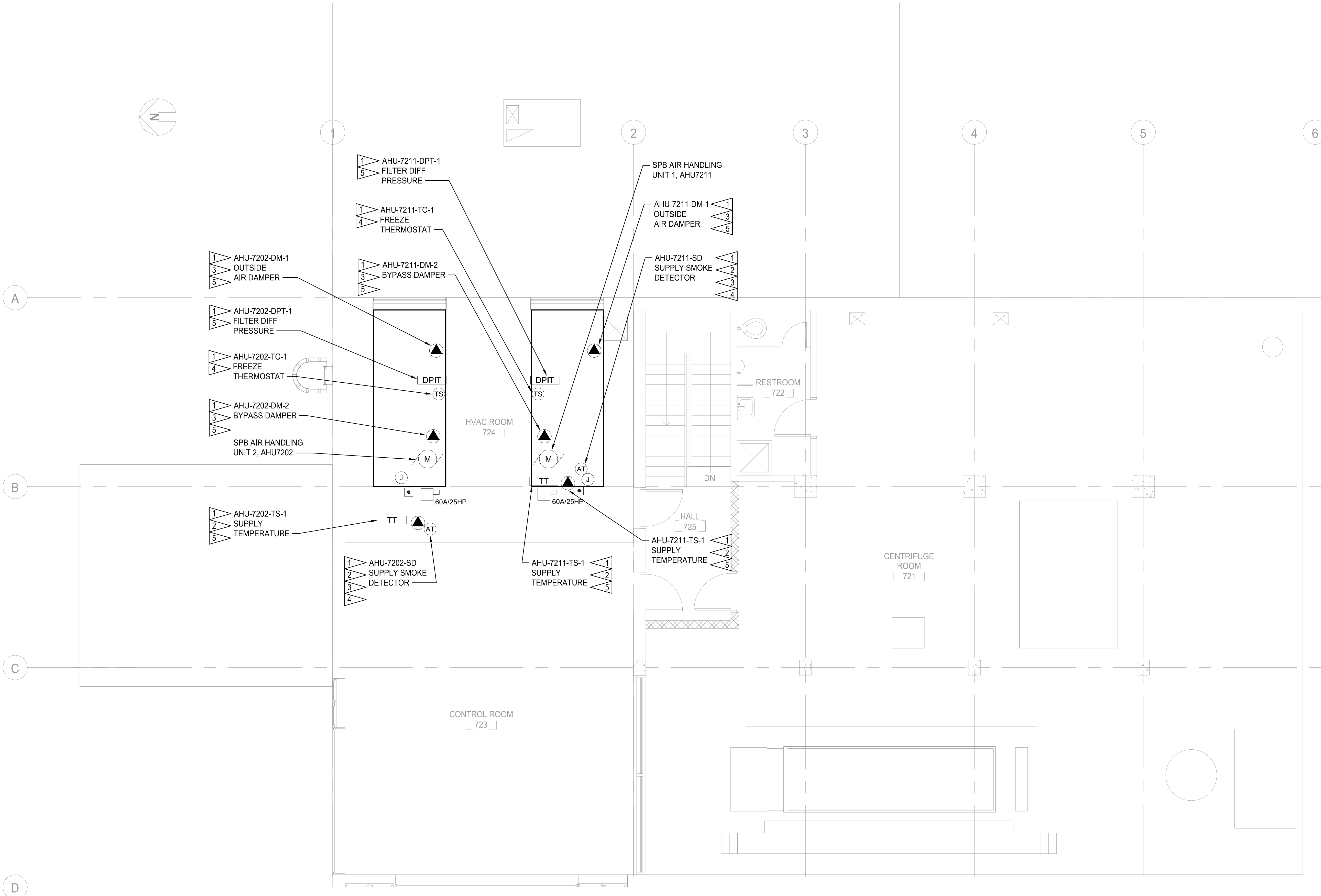


Kitsap County Public Works
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Port Orchard, WA 98366

**KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT
PLANT (CKTP) HVAC SYSTEM REPLACEMENT**
**POWER-
PROCESS BUILDING LEVEL 1**

Drawing: **E3.01**
Sheet: 37 of 47
File: P23-10865_E3.01
Date: September 2025

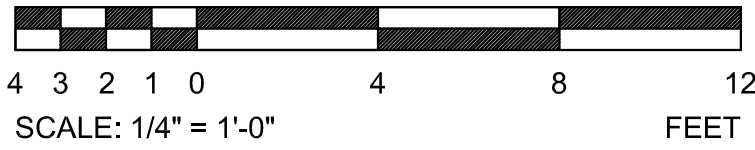
Path: S:\Cad\Kitsap County\23-10865 CKTP HVAC System Repld File: 23-10865_E3.02 Plot date: Aug 28, 2025 04:25:56pm CAD User: J.Lira.
Xref Filename: X23-10865_TB | 240729_Process Building_Upper Floor Plan | Palmatier | X23-10865_TB-FS_24x36 | Dahl |



CONSTRUCTION NOTES

- 1 EXTEND EXISTING CIRCUIT. PROVIDE NEW CONDUCTORS FROM HVAC CONTROL PANEL "PNL 7200". IT IS ACCEPTABLE TO REUSE EXISTING CONDUIT AND RACEWAY.
- 2 PROVIDE DUCT MOUNTING KIT OR ADAPTER KIT FOR NEW DEVICE IF REQUIRED.
- 3 PROVIDE 3/4" MINIMUM SIZED CONDUIT WITH 1#12 & 1#12N & 1#12G.
- 4 PROVIDE 3/4" MINIMUM SIZED CONDUIT WITH 2#12.
- 5 PROVIDE 3/4" MINIMUM SIZED CONDUIT WITH 1-2/C#18STP.

1 POWER - PROCESS BUILDING - LEVEL 2
SCALE: 1/4"=1'-0"



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	ISSUED FOR BID	08/2025	MDW	KED
No.	Revision	Date	By	App'd



Designed: N. Palmatier, P.E.
Drawn: A. Bradley
Checked: C. Orchiltree, P.E.

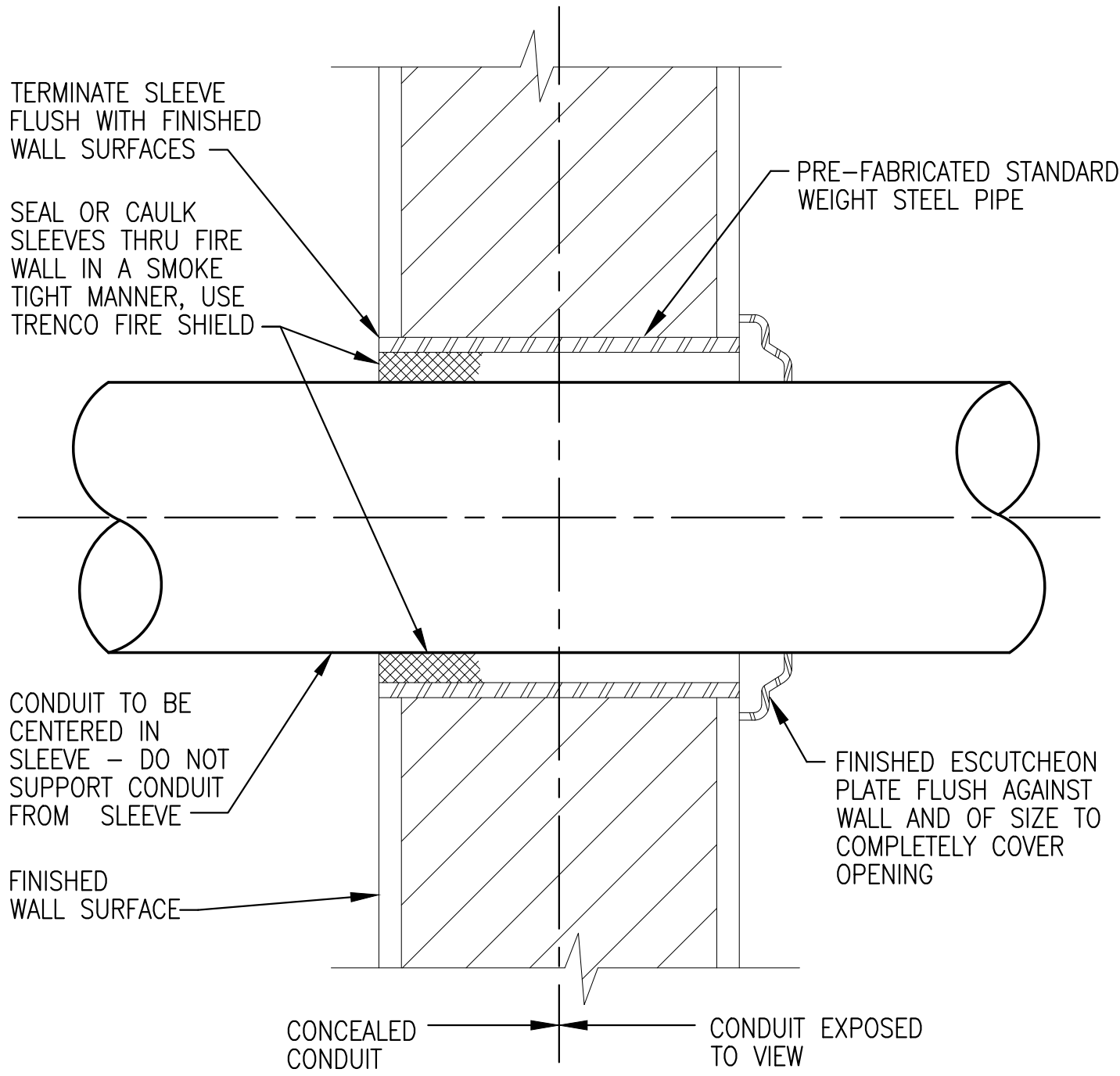
Scale:
1/4" = 1'-0"
One Inch at Full Scale
If Not One Inch
Scale Accordingly



Kitsap County Public Works
614 Division Street, MS 26
Port Orchard, WA 98366

KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
**POWER-
PROCESS BUILDING LEVEL 2**

Drawing: **E3.02**
Sheet: 38 of 47
File: P23-10865_E3.02
Date: September 2025



CONDUIT PENETRATION THRU INTERIOR WALL DETAIL

SCALE: NOT TO SCALE

1

E2.01 | E4.01

Path: I:\22051 CKTP HVAC Upgrade\Working Draw\ Filename: E4.01 Plot date: Aug 27, 2025-02:54:17pm CAD User: chriso.

No.	Revision	Date	By	App'd

fsi

ENGINEERS

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Designed: FNG
Drawn: WHB
Checked:

Scale:
NOT TO SCALE
One Inch at Full Scale If Not One Inch Scale Accordingly



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CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC UPGRADES

**ELECTRICAL DETAILS - ADMINISTRATIVE
AND LABORATORY BUILDING**

Drawing:	E4.01
Sheet:	39 of 47
File:	COMPLETE
Date:	September 2025

**Call 48 Hours
Before You Dig**

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UNDERGROUND SERVICE



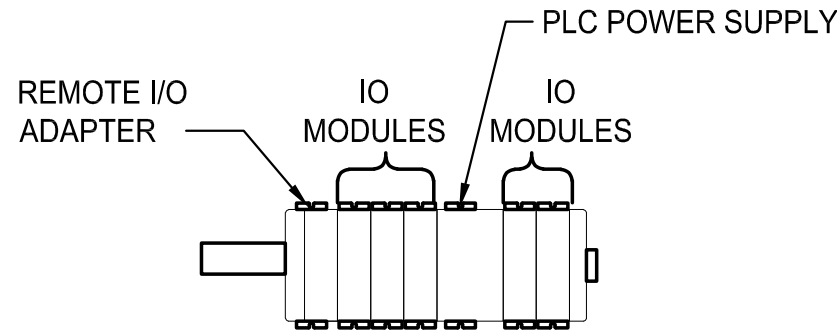
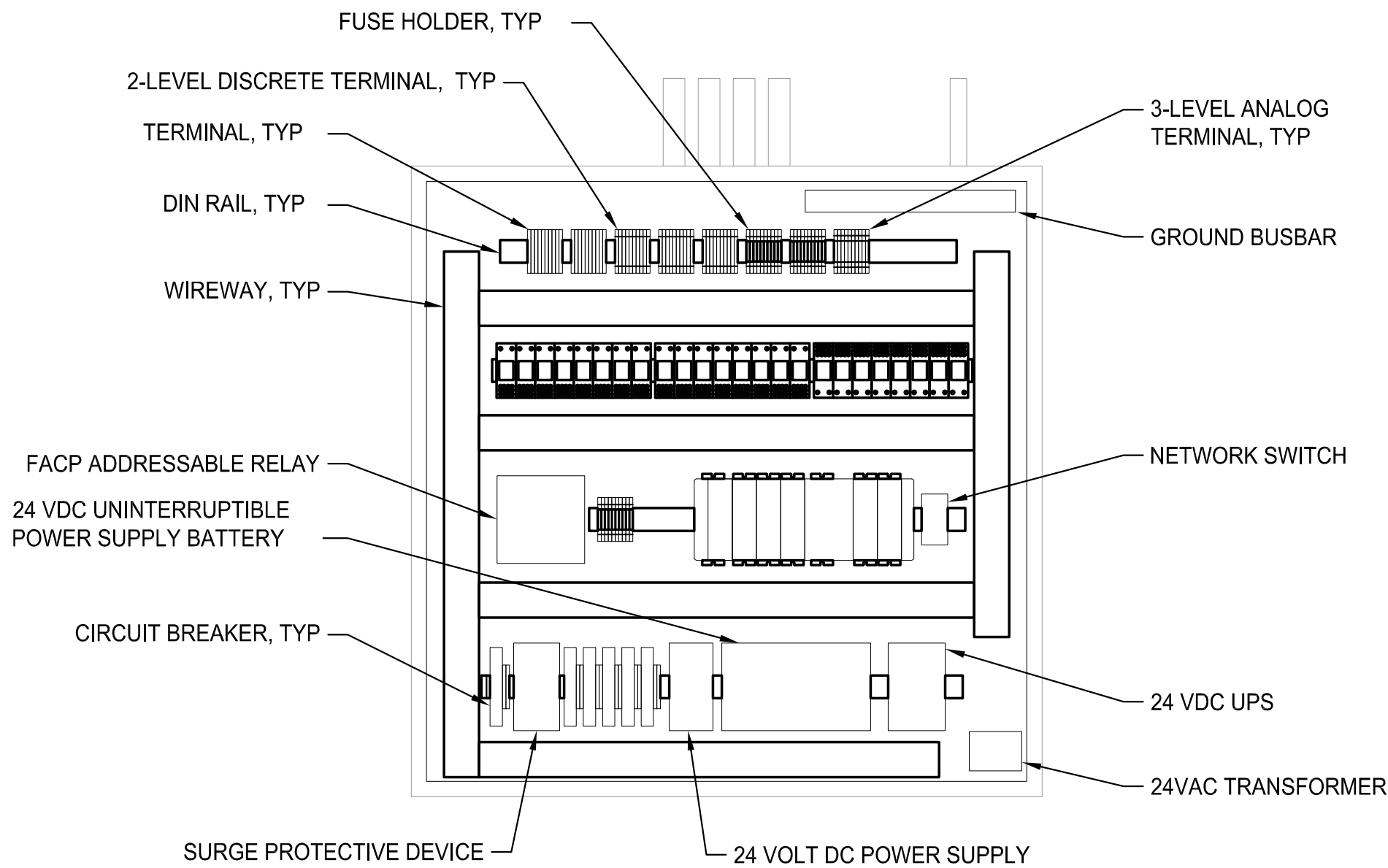
Path: I:\22051 CKTP HVAC Upgrade\Working Drawl. Filename: E5.01 Plot date: Aug 27, 2025-02:54:21pm CAD User: chriso.

PANELBOARD SCHEDULE													v4.0
NAME: PANEL A (EXISTING)													
VOLTAGE RATING: 120/240 VOLTS, 1 PHASE, 3 WIRE													
BUS RATING: 400 AMPS													
MAIN BREAKER: 300 AMPS													
FEED:													
MOUNTING: SURFACE													
SPECIAL FEATURES:													
PANEL DIM: EXISTING													
LOCATION: EAST LAB													
FED FROM: PNL 0900													
NOTES: EXISTING PANEL - SHOWING ONLY THE CIRCUITS TO BE DEMOLISHED - NO CALCULATIONS													
LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1	L2	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE		
L	LIGHTING - LAB		1	20 / 1	-B-		20 / 1	2		RECEPTACLES LUNCH ROOM & LAB STORAGE	R		
L	LIGHTING - LUNCH ROOM		3	20 / 1		-C-	20 / 1	4		RECEPTACLES GENERAL OFFICE	R		
L	LIGHTING - OFFICE		5	20 / 1	-B-		20 / 1	6		RECEPTACLES SMALL OFFICES	R		
H	HEAT LAB OFFICE		7	20 / 1		-C-	20 / 1	8		RECEPTACLES LAB NE & S WALLS	R		
H	HEAT SMALL OFFICE		9	20 / 1	-B-		20 / 1	10		RECEPTACLES LAB S, W & CENTER	R		
	SPACE		11			-C-	20 / 1	12		OVEN	X		
X	DI		13	20 / 1	-B-		20 / 1	14		DI SOLENOID	X		
X	BOD INCUBATOR & RECEPT. NEW BENCH		15	20 / 1		-C-	20 / 2	16		FURNACE	X		
X	BOD INCUBATOR & RECEPT. NEW BENCH		17	20 / 1	-B-			18			X		
X	HOT PLATE		19	20 / 2		-C-	20 / 1	20		FAN LUNCH ROOM & FUME HOOD	X		
X			21		-B-		20 / 1	22		LAB DISHWASHER	X		
H	HEAT PUMP OFFICE (split unit)		23	20 / 2		-C-	80 / 2	24		AUTOCLAVE	X		
H			25		-B-			26			X		
X	DI PUMP		27	30 / 2		-C-	30 / 2	28		HEAT PUMP LAB EAST (split unit)	H		
X			29		-B-			30			H		
X	REFREGIRATOR		31	20 / 2		-C-	30 / 2	32		HOT WATER PUMP MECH ROOM	H		
X			33		-B-			34			H		
H	HEAT PUMP LAB WEST (split unit)		35	20 / 2		-C-	20 / 1	36		HEAT	X		
H			37		-B-		20 / 1	38		FAN PUMPER AND HVAC CIRC. PUMP	X		
H	AC UNIT		39	40 / 2		-C-	30 / 1	40		VACUM PUMP	X		
H			41		-B-		20 / 1	42		DI	X		
LINE LOADS:			VA(L1)			VA(L2)							
TOTAL LOAD:			KVA			AMPS							
PANEL A (EXISTING) LOAD CALCULATION:													
		CONNECTED VA		METHOD		NEC DEMAND		CALC. VA					
TOTAL LIGHTING (L) LOAD:		L		ALL @		125%		11375					
TOTAL RECEPTACLE (R) LOAD:		R		FIRST 10KVA @		100%		6660					
				REMAINDER OVER 10KVA		50%							
TOTAL MOTOR (M) LOAD:		M		ALL @		100%		1438					
		LM		ALL @		100%		21300					
TOTAL HVAC (H) LOAD:		H		ALL @		100%							
TOTAL MISCELLANEOUS (X) LOAD:		X		ALL @		75%							
TOTAL VA:		VA		VA		VA		VA					
AVERAGE AMPS @		AMPS		AMPS		AMPS		AMPS					
VOLTAGE PHASE TO PHASE=		240											

PANELBOARD SCHEDULE													v4.0
NAME: PNL D (NEW)													
VOLTAGE RATING: 240V/120 VOLTS, 1 PHASE, 3 WIRE													
BUS RATING: 250 AMPS													
MAIN BREAKER: 250 AMPS													
FEED: (1)(3) 400 MCM + (1)#1/0 GND @ (1)3'-1/2' CONDUIT													
LOCATION: 20 X 5.75 X 56 WxDxH													
MOUNTING: SURFACE - NEMA 4X													
FED FROM: TFR 0900													
SPECIAL FEATURES: DPM + SPD													
NOTES:													
LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1	L2	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE		
H	CU-05	1,901	1	20 / 2	-A-		15 / 2	2	971	ERV-01	H		
H		1,901	3			-B-		4	971		H		
H	CU-04	1,901	5	20 / 2	-A-		35 / 2	6	2,886	ERV-01 PRE-HEAT HEATER	H		
H		1,901	7			-B-		8	2,886		H		
H	ERV-4	1,056	9	15 / 1	-A-		15 / 2	10	971	ERV-03	H		
H	FCU-01	360	11	15 / 2		-B-		12	971		H		
H		360	13		-A-		15 / 2	14	1,154	ERV-01 HEATING HEATER	H		
H	FCU-02	360	15	15 / 2		-B-		16	1,154		H		
H		360	17		-A-		20 / 1	18		SPARE			
	SPARE		19	15 / 1		-B-	20 / 1	20		SPARE			
H	ERV-4 DUCT HEATER	1,000	21	15 / 1	-A-		20 / 2	22		SPARE			
	SPARE		23	15 / 1		-B-		24					
H	CU-01	1,368	25	15 / 2	-A-		20 / 2	26		SPARE			
H		1,368	27			-B-		28					
H	ERV-03 HEATING HEATER	2,886	29	35 / 2	-A-		15 / 2	30	971	ERV-02	H		
H		2,886	31			-B-		32	971		H		
H	CU-3	2,040	33	25 / 2	-A-		35 / 2	34	2,886	ERV-02 PRE-HEAT HEATER	H		
H		2,040	35			-B-		36	2,886		H		
	SPARE		37	20 / 1	-A-		15 / 2	38	1,154	ERV-02 HEATING HEATER	H		
	SPARE		39	20 / 1		-B-		40	1,154		H		
LINE LOADS:		23,864 VA(L1)			21,809 VA(L2)								
TOTAL LOAD:		45.67 KVA			190.3 AMPS								
PNL D (NEW) LOAD CALCULATION:													
TOTAL LIGHTING (L) LOAD:		L					ALL @		125%				
TOTAL RECEPTACLE (R) LOAD:		R					FIRST 10KVA @		100%				
							REMAINDER OVER 10KVA		50%				
TOTAL MOTOR (M) LOAD:		M					ALL @		100%				
		LM					125% OF LARGEST		125%				
TOTAL HVAC (H) LOAD:		H	45673					ALL @		100%		45673	
TOTAL MISCELLANEOUS (X) LOAD:		X					ALL @		75%				
TOTAL VA:		45673 VA									45673 VA		
AVERAGE AMPS @		190 AMPS									190 AMPS		
VOLTAGE PHASE TO PHASE=		240											

PANELBOARD SCHEDULE														v4.0
NAME: PANEL B (EXISTING)														
VOLTAGE RATING: 120/240 VOLTS, 1 PHASE, 3 WIRE														
BUS RATING: 100 AMPS														
MAIN BREAKER: 100 AMPS														
FEED:														
MOUNTING: SURFACE														
SPECIAL FEATURES:														
PANEL DIM: EXISTING														
LOCATION: MECHANICAL ROOM														
FED FROM: PNL 0900														
NOTES: EXISTING PANEL - SHOWING ONLY THE CIRCUITS TO BE DEMOLISHED - NO CALCULATIONS														
LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1	L2	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE			
	SPARE		A	100 / 2	-C-			B						
			C			-A-	20 / 1	D	500	HEATERS, LIGHTS MAIN GEAR 2940	L			
L	LIGHTING DRYING ROOM, MENS LOCKERS	1,600	1	20 / 1	-C-		20 / 1	2	1,800	RECEPTACLES DRYING ROOM, HALL	R			
L	LIGHTING RESTROOMS	1,600	3	20 / 1	-A-		20 / 1	4	1,620	RECEPTACLES RESTROOMS+LAB EXHAUST	R			
L	LIGHTING UPPER HALLWAY & PHOTOCELL LGTG	1,800	5	20 / 1	-C-		20 / 1	6	1,620	REC. COAT RM&WOMEN'S LOCKER	R			
L	LIGHTING LOWER HALLWAY & ENTRANCE	1,800	7	20 / 1	-A-		40 / 2	8	1,620	RECEPTACLES MECH ROOM	R			
L	LIGHTING MECH ROOM AND WOMEN LOCKER	800	9	20 / 1	-C-			10	1,000	STREET LIGHTING + HALL PLUGS	L			
LM	PUMP - HOT WATER CIRCULATION #8	1,150	11	20 / 1	-A-		40 / 2	12	3,000	HEATER - DUCT	H			
X	LAB RESTROOMS	1,500	13	20 / 1	-C-			14	3,000		H			
X	DRYER	2,700	15	30 / 2	-A-		30 / 2	16	2,700	DRYER	X			
X		2,700	17		-C-			18	2,700		X			
X	REFRIGERATOR IN HALL	1,800	19	20 / 1	-A-		50 / 1	20	2,700	RETURN FAN	H			
X	REFRIGERATOR IN HALL	1,800	21	20 / 1	-C-			22	2,700		H			
H	LAB WEST AIR CONDITIONING	2,700	23	30 / 2	-A-		20 / 1	24		LAB WEST AIR COND	H			
H		2,700	25		-C-		20 / 1	26	1,800	HALLWAY INCUBATOR	X			
			27	/ 1	-A-		/ 1	28						
			29	/ 1	-C-		/ 1	30						
			31	/ 1	-A-		/ 1	32						
			33	/ 1	-C-		/ 1	34						
			35	/ 1	-A-		/ 1	36						
LINE LOADS:		22,690 VA(L1)								VA(L2)				
TOTAL LOAD:		49.01 KVA								AMPS				
PANEL B (EXISTING) LOAD CALCULATION:														
		CONNECTED VA		METHOD		NEC DEMAND		CALC. VA						
TOTAL LIGHTING (L) LOAD:	L	9100		ALL @	125%			11375						
TOTAL RECEPTACLE (R) LOAD:	R	6660		FIRST 10KVA @	100%			6660						
				REMAINDER OVER 10KVA	50%									
TOTAL MOTOR (M) LOAD:	M			ALL @	100%									
	LM	1150		125% OF LARGEST	125%			1438						
TOTAL HVAC (H) LOAD:	H	21300		ALL @	100%			21300						
TOTAL MISCELLANEOUS (X) LOAD:	X	10800		ALL @	75%			8100						
TOTAL VA:		49810 VA						48873 VA						
AVERAGE AMPS @		204 AMPS						204 AMPS						
VOLTAGE PHASE TO PHASE=														
240														

Path: S:\cad\Kitsap County\23-10865 CKTP HVAC System Repl.d File: P23-10865_E6.01 Plot date: Aug 28, 2025 04:21:20pm CAD User: J.Lira.
Xref Filename: \X23-10865_TB\Palmatier\X23-10865_Status\X23-10865_TB-FSI_24x36 [Dahl]



GENERAL NOTES

- 1. REPLACE EXISTING SUB-PANEL WITH NEW SUB-PANEL. PROVIDE NEW SUB-PANEL IN EXISTING ENCLOSURE.
- 2. EXISTING SUB-PANEL IS 34.25 INCHES BY 34.25 INCHES IN AN APPROXIMATELY 36 INCHES BY 36 INCHES BY 8 INCHES DEEP ENCLOSURE.

NAME PLATE SCHEDULE	
NP1	HVAC CONTROL PANEL PNL 7200
NP2	AHU 7202 ALARMS
NP3	AHU 7211 ALARMS
NP4	F 7207 ALARMS

LEGEND PLATE SCHEDULE	
LP1	SMOKE
LP2	ANTIFREEZE
LP3	DIRTY FILTER

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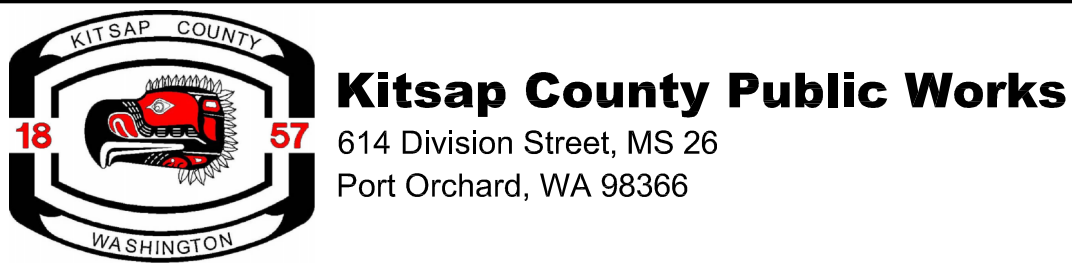


	ISSUED FOR BID	08/2025	MDW	KED
No.	Revision	Date	By	App'd



Designed: N. Palmatier, P.E.
Drawn: A. Bradley
Checked: C. Orchiltree, P.E.

Scale: N/A
One Inch at Full Scale
If Not One Inch Scale Accordingly



KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING
PNL 7200 HVAC CONTROL PANEL
ELEVATION

Drawing: E6.01
Sheet: 41 of 47
File: P23-10865_E6.01
Date: September 2025

Path: S:\cad\Kitsap County\23-10865 CKTP HVAC System Repld File: P23-10865_E6.02 Plot date: Aug 28, 2025 04:21:48pm CAD User: J.Lira.
Xref Filename: \X23-10865_TB\Palmatier\X23-10865_Status\X23-10865_TB-FSI_24x36 [Dahl]

CHASIS				
RACK	SLOT	TYPE	DESCRIPTION	
1	0	RIO	"1769-ANETR ETHERNET IP REMOTE I/O ADAPTER"	
1	1	AO	"1769-OF4CI 4 CHANNEL 4-20MA ANALOG OUTPUT"	
1	2	AI	"1769-IF4I 4 CHANNEL 4-20MA ANALOG INPUT"	
1	3	AI	"1769-IF4I 4 CHANNEL 4-20MA ANALOG INPUT"	
1	0	PS	"1769-PB2 2A 24VDC POWER SUPPLY"	
1	4	DO	"1769-OB16 16 CHANNEL 24VDC SOURCE DISCRETE OUTPUT"	
1	5	DI	"1769-IQ16 16 CHANNEL 24VDC SINK/SOURCE DISCRETE INPUT"	

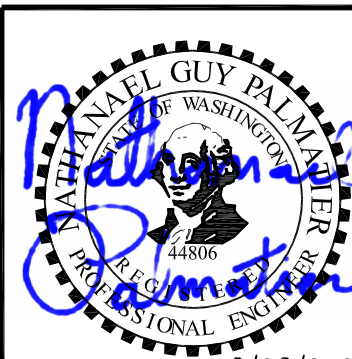
ANALOG OUTPUT					
RACK	SLOT	CHANNEL	TYPE	DESCRIPTION	RANGE
1	1	0	AO	AHU-7202-DM-2 FACE & BYPASS DAMPER ACTUATOR	MIN - MAX 4 MA - 20 MA
1	1	1	AO	AHU-7211-DM-2 FACE & BYPASS DAMPER ACTUATOR	MIN - MAX 4 MA - 20 MA
1	1	2	AO	SPARE	4 MA - 20 MA
1	1	3	AO	SPARE	4 MA - 20 MA

ANALOG INPUT					
RACK	SLOT	CHANNEL	TYPE	DESCRIPTION	RANGE
1	2	0	AI	"AHU-7202-TS-1 SUPPLY TEMPERATURE"	"20 °F - 120 °F 4 mA - 20 mA"
1	2	1	AI	"AHU-7202-DPT-1 FILTER DIFF. PRESSURE"	"0 IN H2O - 1.25 IN H2O 4 MA - 20 MA"
1	2	2	AI	"AHU-7211-TS-1 SUPPLY TEMPERATURE"	"20 °F - 120 °F 4 MA - 20 MA"
1	2	3	AI	"AHU-7211-DPT-1 FILTER DIFF. PRESSURE"	"0 IN H2O - 1.25 IN H2O 4 MA - 20 MA"
1	2	0	AI	"AHU-7211-WM-1 ROOM TEMPERATURE"	"20 °F - 120 °F 4 MA - 20 MA"
1	2	1	AI	"P-7209-WTS-1 WATER TEMPERATURE"	"0 °F - 250 °F 4 MA - 20 MA"
1	2	2	AI	"P-7209-OAS-1 OUTSIDE AIR TEMPERATURE"	"-58 °F - 120 °F 4 MA - 20 MA"
1	2	3	AI	SPARE	"0 % - 100 % 4 MA - 20 MA"

DISCRETE OUTPUT				
RACK	SLOT	CHANNEL	TYPE	DESCRIPTION
1	4	0	DO	AHU-7202-1CR CALL TO RUN
1	4	1	DO	AHU-7202-5CR DIRTY FILTER PILOT LIGHT
1	4	2	DO	AHU-7211-1CR CALL TO RUN
1	4	3	DO	AHU-7211-5CR DIRTY FILTER PILOT LIGHT
1	4	4	DO	F-7205-1CR CALL TO RUN
1	4	5	DO	F-7207-1CR CALL TO RUN
1	4	6	DO	F-7208-1CR CALL TO RUN
1	4	7	DO	P-7209-1CR CALL TO RUN
1	4	8	DO	FA-CR
1	4	9	DO	SPARE
1	4	10	DO	SPARE
1	4	11	DO	SPARE
1	4	12	DO	SPARE
1	4	13	DO	SPARE
1	4	14	DO	SPARE
1	4	15	DO	SPARE

DISCRETE INPUT				
RACK	SLOT	CHANNEL	TYPE	DESCRIPTION
1	5	0	DI	AHU-7202-2CR READY / HOA IN "AUTO"
1	5	1	DI	AHU-7202-3CR SMOKE DETECTOR
1	5	2	DI	AHU-7202-4CR FREEZE PROTECTION
1	5	3	DI	AHU-7211-2CR READY / HOA IN "AUTO"
1	5	4	DI	AHU-7211-3CR SMOKE DETECTOR
1	5	5	DI	AHU-7211-4CR FREEZE PROTECTION
1	5	6	DI	F-7205-2CR READY / HOA IN "AUTO"
1	5	7	DI	FA-CR FIRE ALARM CONTROL PANEL FAN SHUTDOWN
1	5	8	DI	F-7207-2CR READY / HOA IN "AUTO"
1	5	9	DI	F-7207-3CR SMOKE DETECTOR
1	5	10	DI	F-7208-2CR READY / HOA IN "AUTO"
1	5	11	DI	SPARE
1	5	12	DI	SPARE
1	5	13	DI	SPARE
1	5	14	DI	SPARE
1	5	15	DI	SPARE

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Designed: N. Palmatier, P.E.	Scale: N/A One Inch at Full Scale If Not One Inch Scale Accordingly
Drawn: A. Bradley	
Checked: C. Orchiltree, P.E.	

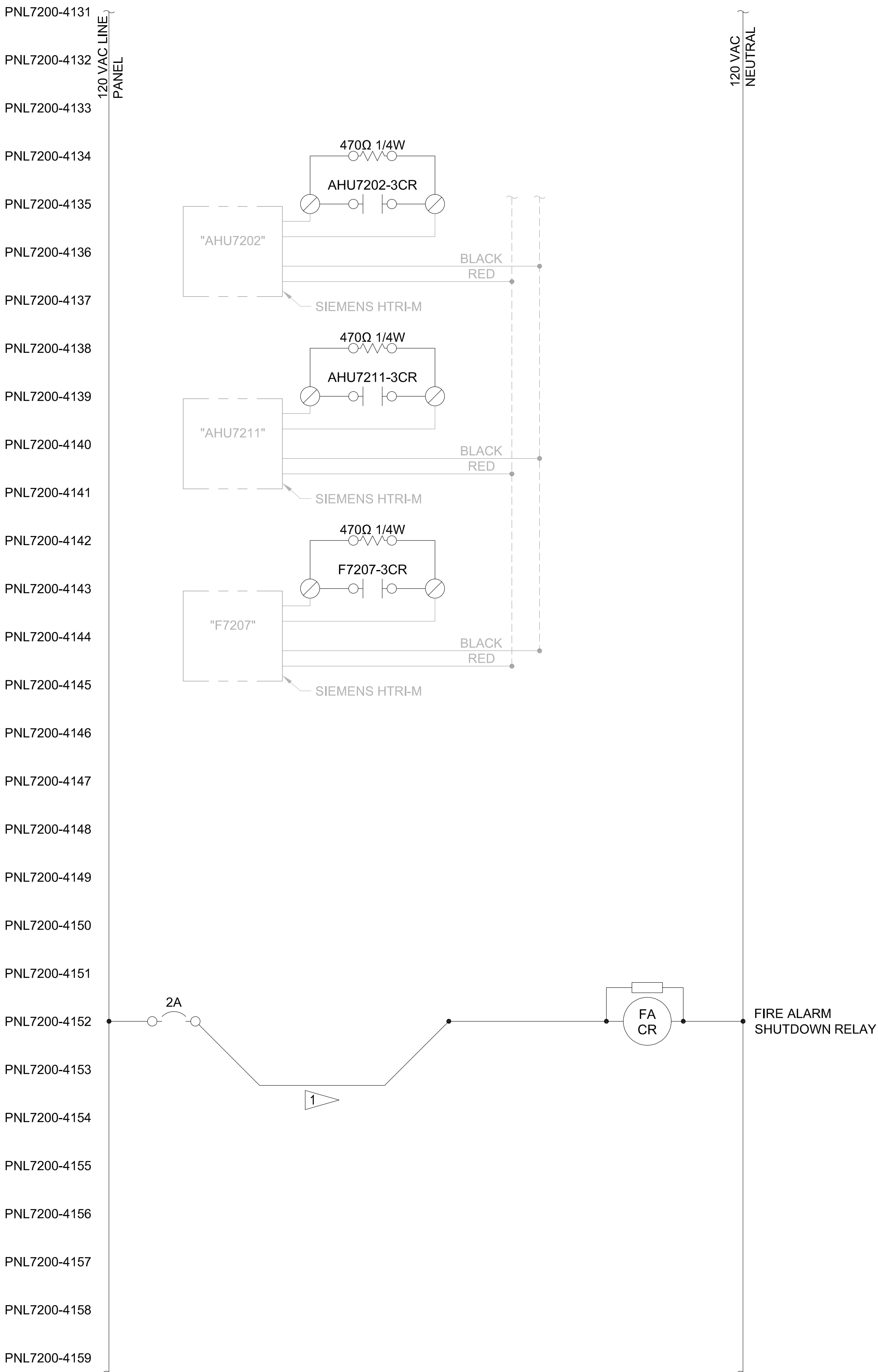
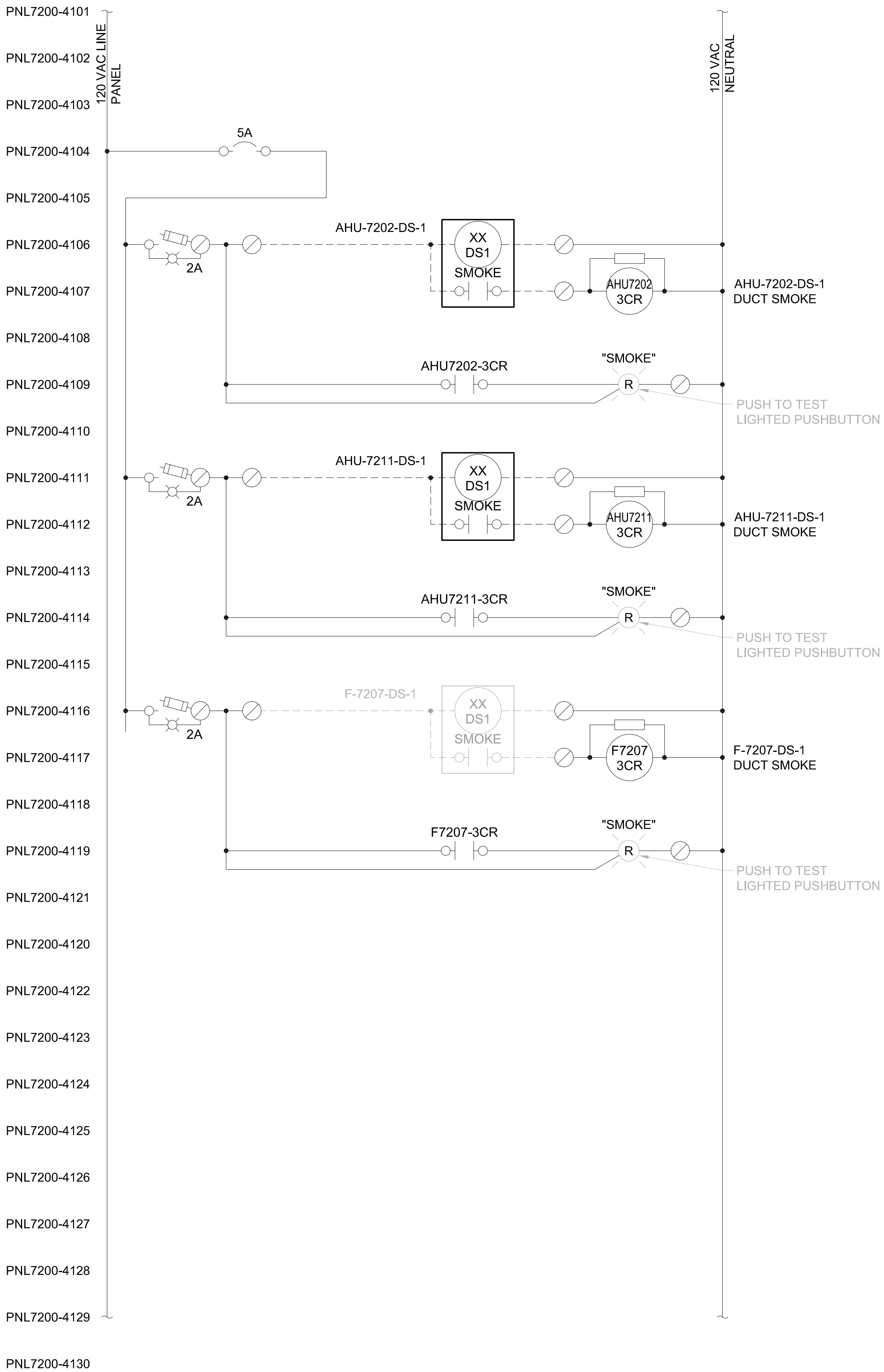


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KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING
PNL 7200 HVAC CONTROL PANEL
I/O LISTING

Drawing:	E6.02
Sheet:	42 of 47
File:	P23-10865_E6.02
Date:	September 2025

Path: S:\Cad\Kitsap County\23-10865 CKTP HVAC System Repld File: P23-10865_E7.01 Plot date: Aug 28, 2025 04:22:10pm CAD User: J.Lira.
Xref Filename: | X23-10865_TB | Palmatier | X23-10865_Status | X23-10865_TB-FS_24x36 | Dahl |



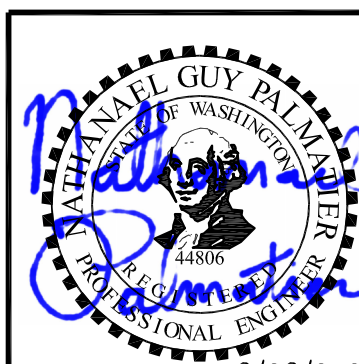
GENERAL NOTES

- CONNECT TO EXISTING POWER CIRCUIT.
- EXTEND EXISTING CONDUCTORS AND LAND TO NEW TERMINAL BLOCKS.

CONSTRUCTION NOTES

- PROVIDE TERMINALS AND JUMPER FOR FUTURE FIRE ALARM INTERLOCK.

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Drawing: **E7.01**
Sheet: 43 of 47
File: P23-10865_E7.01
Date: September 2025

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BHC Consultants, LLC
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Seattle, Washington 98101
206.505.3400
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www.bhcconsultants.com

Designed: N. Palmatier, P.E.
Drawn: A. Bradley
Checked: C. Orchiltree, P.E.

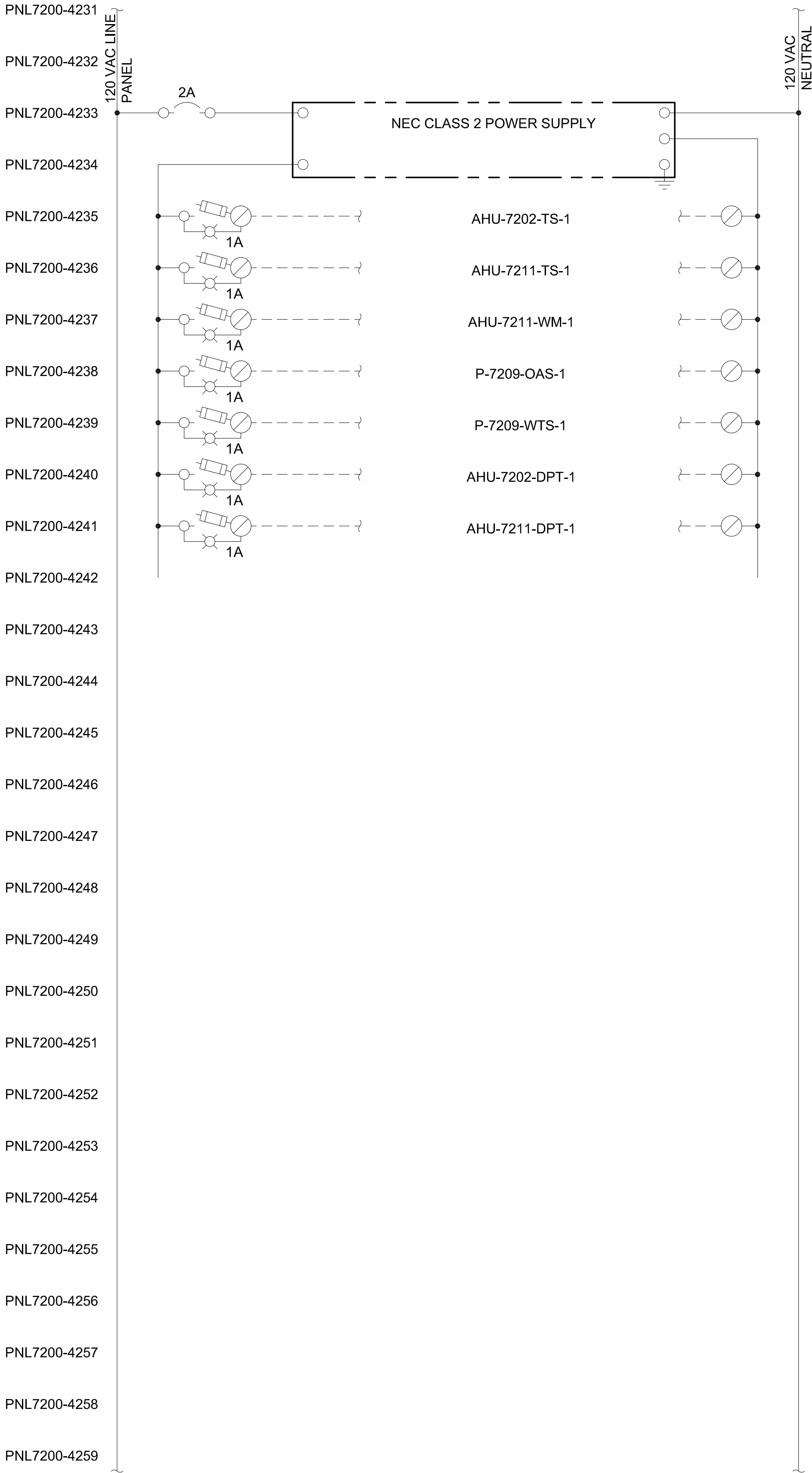
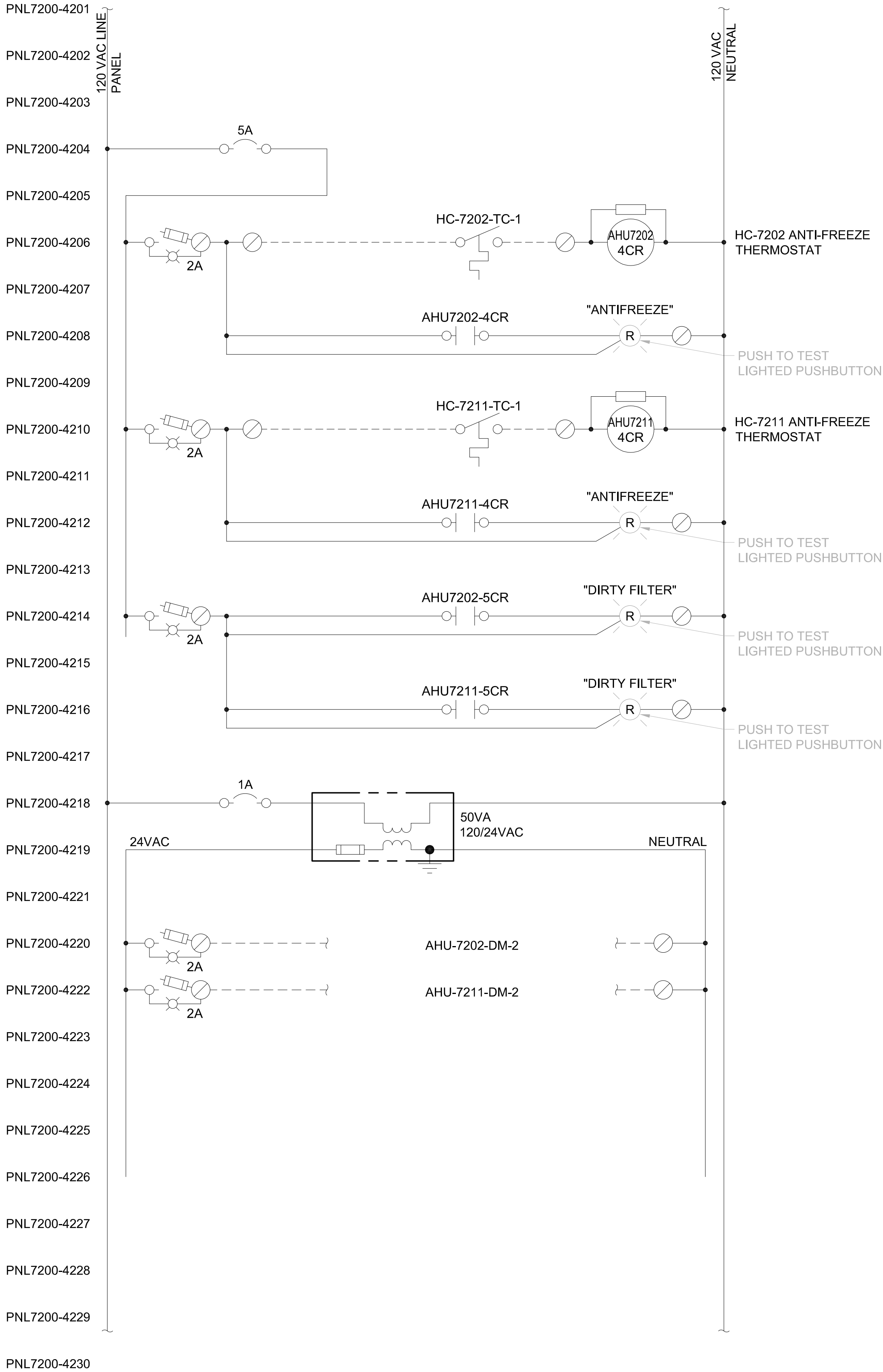
Scale:
N/A
One Inch at Full Scale
If Not One Inch
Scale Accordingly



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**KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT
PLANT (CKTP) HVAC SYSTEM REPLACEMENT**
**ELECTRICAL - PROCESS BUILDING
SCHEMATIC WIRING DIAGRAM**
1 OF 5

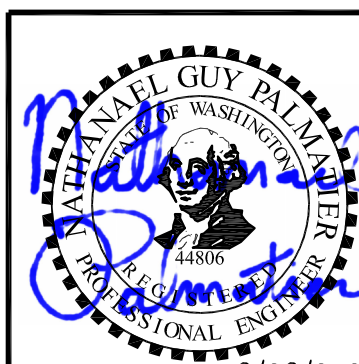
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Xref Filename: | X23-10865_TB | Palmatier | X23-10865_Status | X23-10865_TB-FSI_24x36 | Dahl |



GENERAL NOTES

- CONNECT TO EXISTING POWER CIRCUIT.
- EXTEND EXISTING CONDUCTORS AND LAND TO NEW TERMINAL BLOCKS.

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No.	Revision	Date	By	App'd



Designed: N. Palmatier, P.E.	Scale: N/A
Drawn: A. Bradley	One Inch at Full Scale If Not One Inch Scale Accordingly
Checked: C. Orchiltree, P.E.	

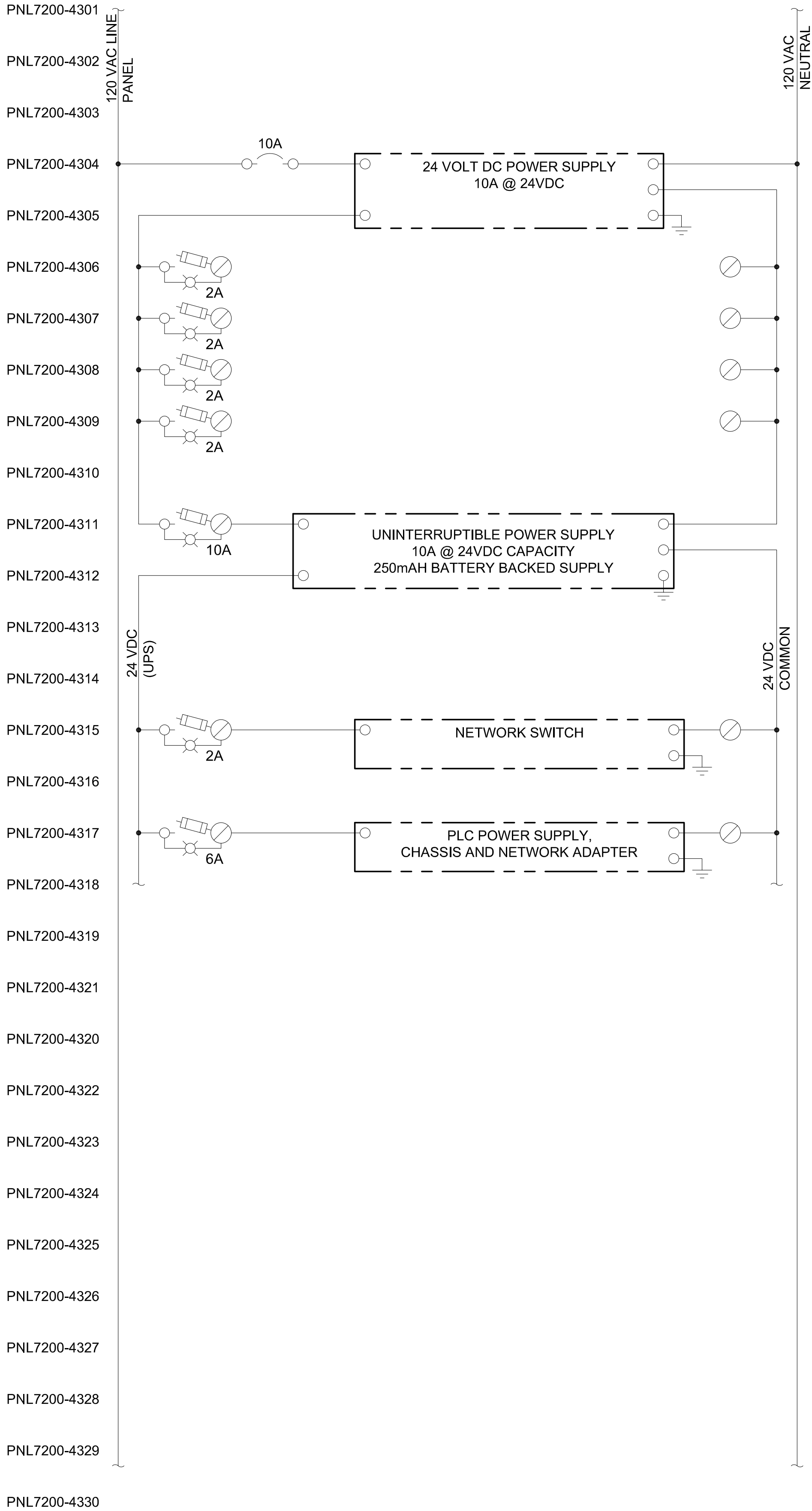


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KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING
SCHEMATIC WIRING DIAGRAM
2 OF 5

Drawing:	E7.02
Sheet:	44 of 47
File:	P23-10865_E7.02
Date:	September 2025

Path: S:\cad\Kitsap County\23-10865 CKTP HVAC System Repld File: P23-10865_E7.03 Plot date: Aug 28, 2025-04:23:09pm CAD User: J.Lira.
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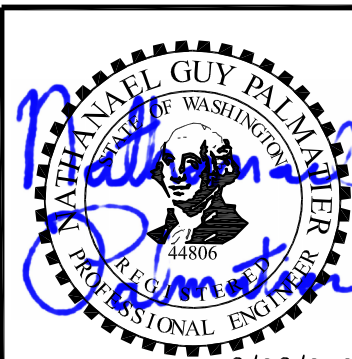


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- PNL7200-4332
- PNL7200-4333
- PNL7200-4334
- PNL7200-4335
- PNL7200-4336
- PNL7200-4337
- PNL7200-4338
- PNL7200-4339
- PNL7200-4340
- PNL7200-4341
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- PNL7200-4352
- PNL7200-4353
- PNL7200-4354
- PNL7200-4355
- PNL7200-4356
- PNL7200-4357
- PNL7200-4358
- PNL7200-4359

GENERAL NOTES

- CONNECT TO EXISTING POWER CIRCUIT.
- EXTEND EXISTING CONDUCTORS AND LAND TO NEW TERMINAL BLOCKS.

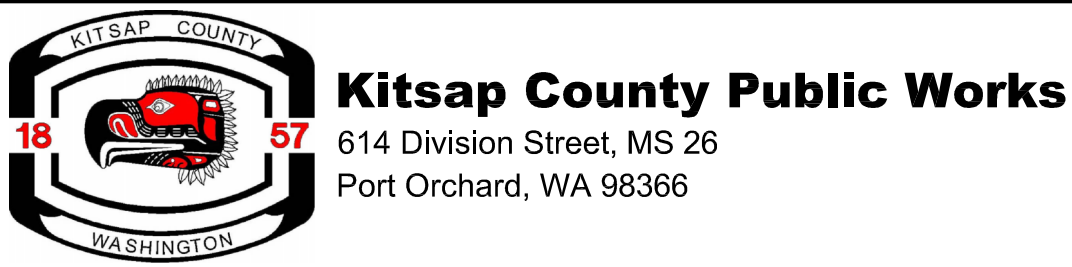
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	ISSUED FOR BID	08/2025	MDW	KED
No.	Revision	Date	By	App'd



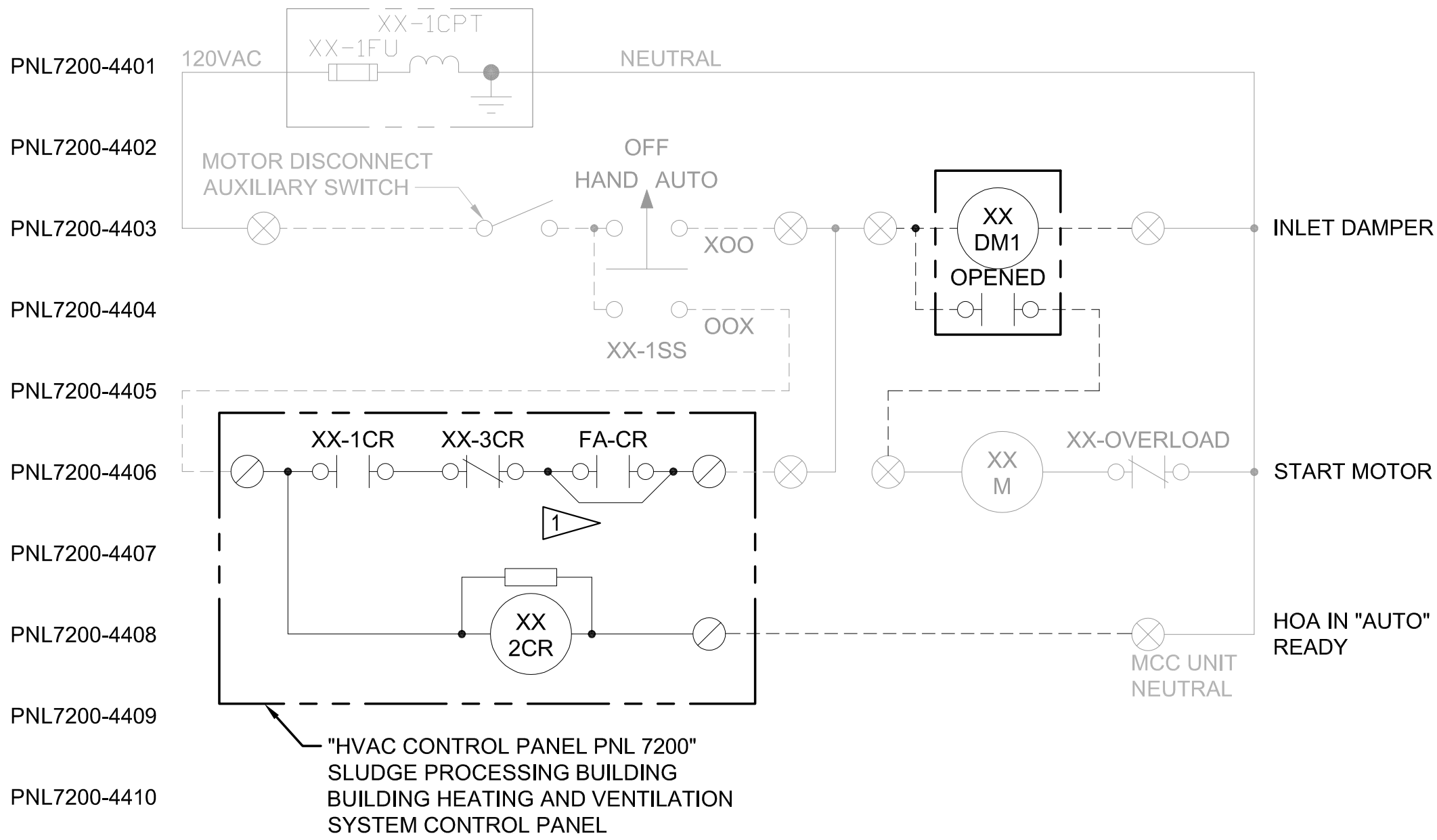
Designed: N. Palmatier, P.E.	Scale: N/A
Drawn: A. Bradley	One Inch at Full Scale If Not One Inch Scale Accordingly
Checked: C. Orchiltee, P.E.	



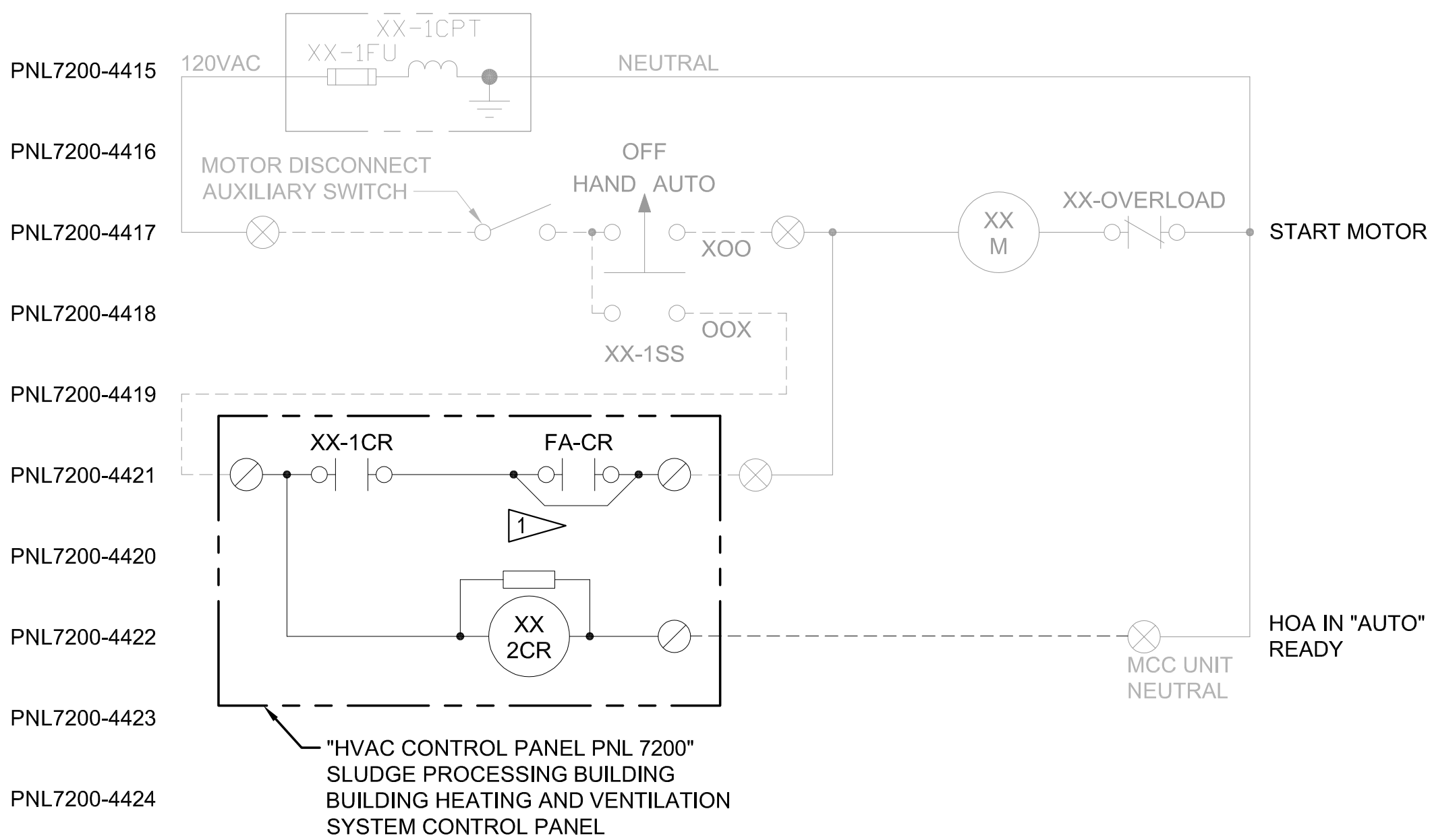
KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING
SCHEMATIC WIRING DIAGRAM
3 OF 5

Drawing:	E7.03
Sheet:	45 of 47
File:	P23-10865_E7.03
Date:	September 2025

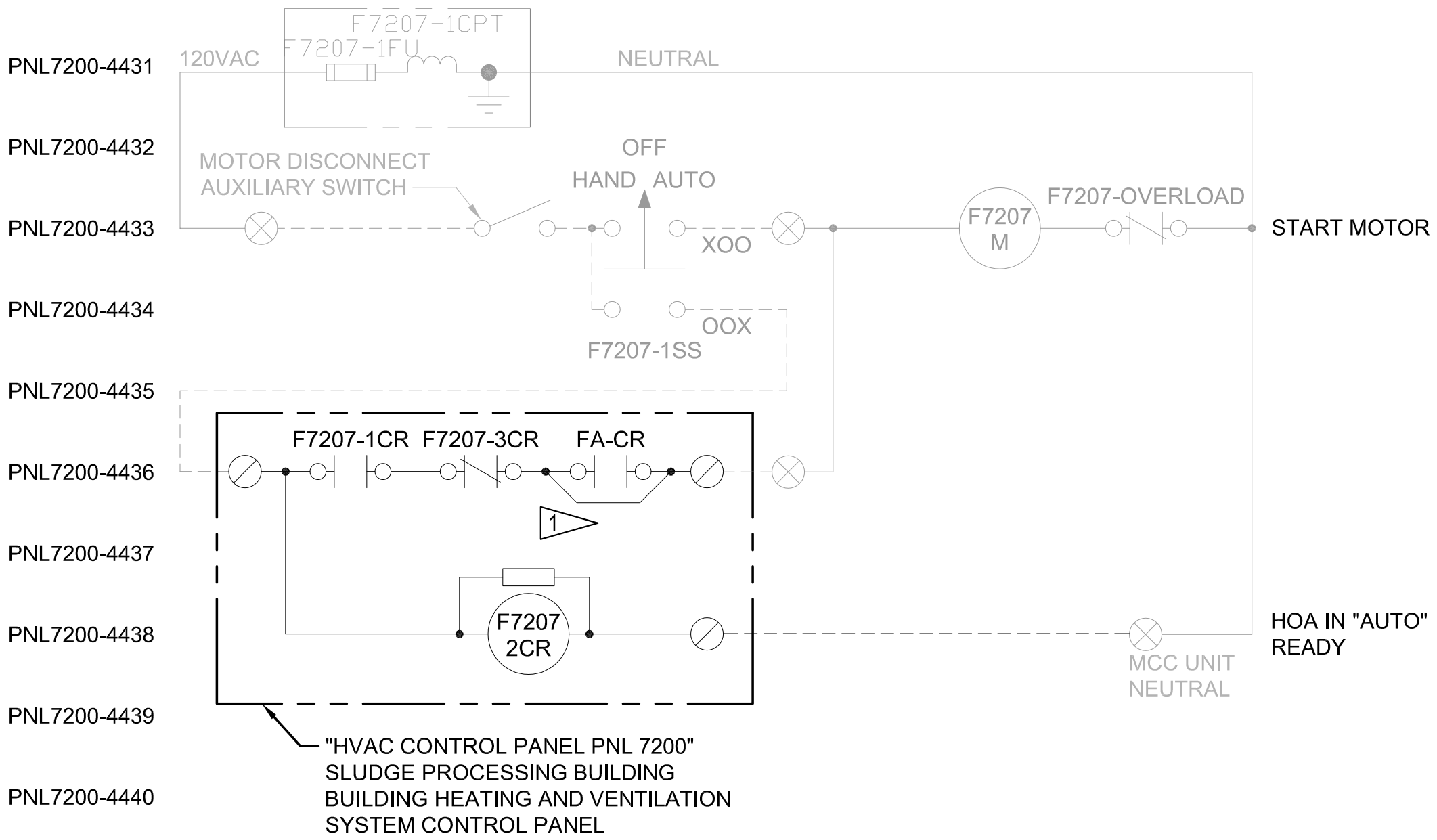
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Xref Filename: \X23-10865_TB\Palmatier\X23-10865_TB-FS_24x36 Dahl



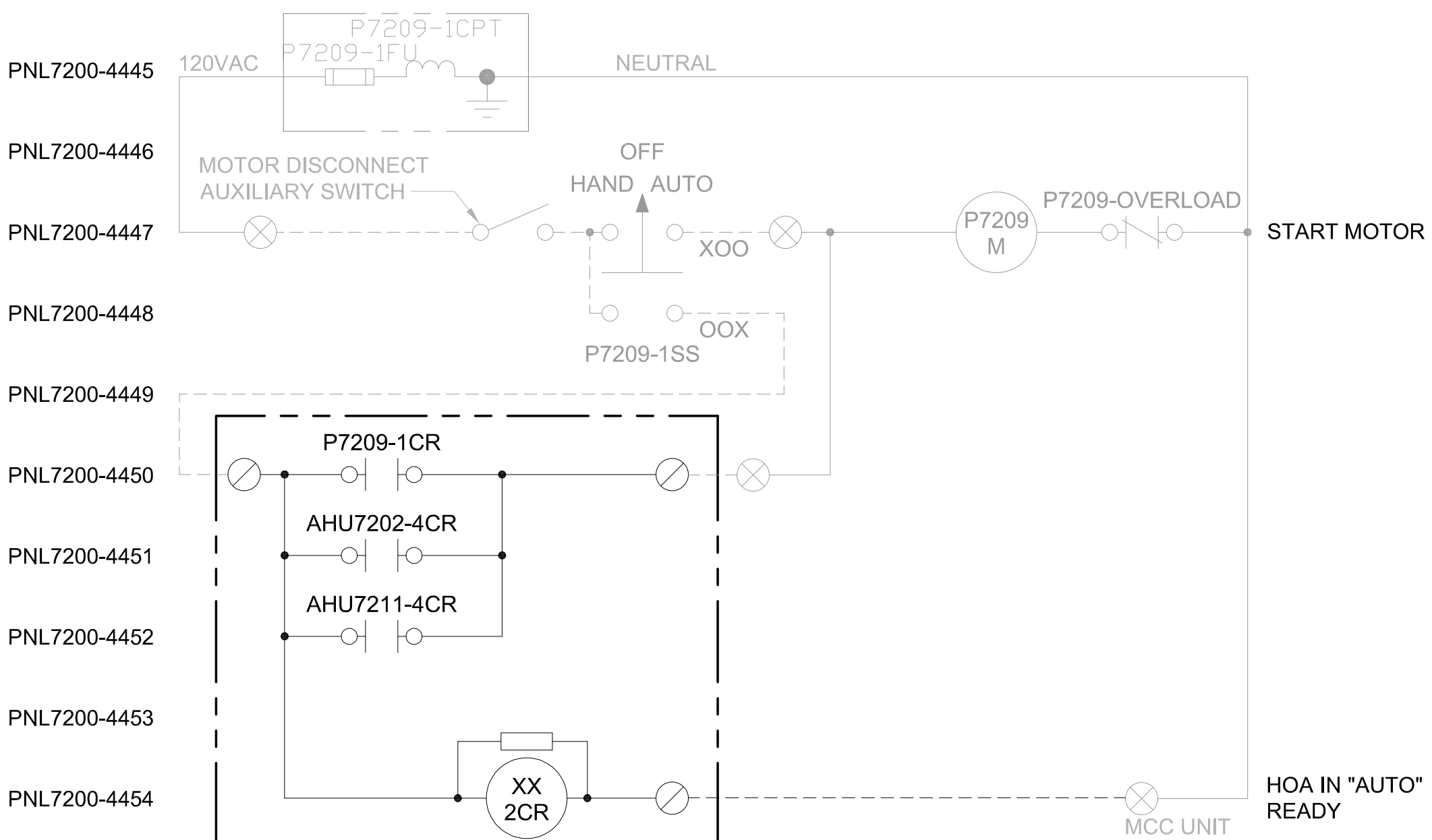
XX = TAGID OF EQUIPMENT
AHU-7202 SLUDGE PROCESSING BUILDING AIR HANDLER UNIT 2
AHU-7211 SLUDGE PROCESSING BUILDING AIR HANDLER UNIT 1



XX = TAGID OF EQUIPMENT
F-7205 SLUDGE PROCESSING BUILDING LAB AREA EXHAUST FAN
F-7208 SLUDGE PROCESSING BUILDING CHEMICAL ROOM EXHAUST FAN



F-7207 SLUDGE PROCESSING BUILDING CHEMICAL ROOM SUPPLY FAN



P-7209 SLUDGE PROCESSING BUILDING HEATING WATER PUMP

GENERAL NOTES

- CONNECT TO EXISTING POWER CIRCUIT.
- EXTEND EXISTING CONDUCTORS AND LAND TO NEW TERMINAL BLOCKS.

CONSTRUCTION NOTES

- PROVIDE TERMINALS AND JUMPER FOR FUTURE FIRE ALARM INTERLOCK.

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No.	Revision	Date	By	App'd
ISSUED FOR BID		08/2025	MDW	KED



Designed: N. Palmatier, P.E.	Scale: N/A
Drawn: A. Bradley	One Inch at Full Scale If Not One Inch Scale Accordingly
Checked: C. Orchitree, P.E.	

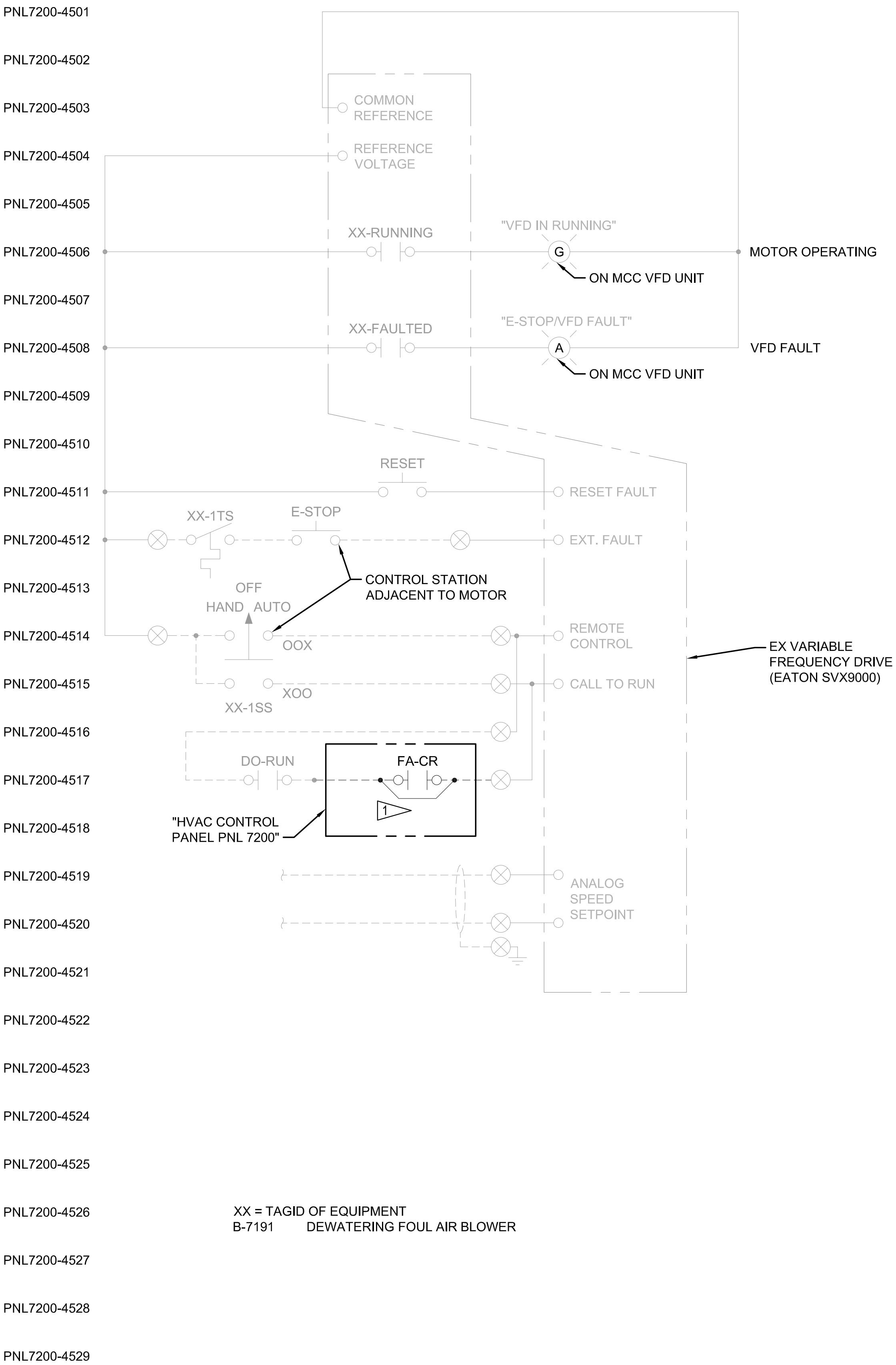


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KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING SCHEMATIC WIRING DIAGRAM
4 OF 5

Drawing: E7.04
Sheet: 46 of 47
File: P23-10865_E7.04
Date: September 2025

Path: S:\Cad\Kitsap County\23-10865 CKTP HVAC System Repld File: P23-10865_E7.05 Plot date: Aug 28, 2025 04:30:06pm CAD User: J.Lira.
Xref Filename: | X23-10865_TB | Palmatier | X23-10865_Status | X23-10865_TB_FS_24x36 | Dahl |



GENERAL NOTES

1. IN WIRING DIAGRAM, THE TAG ID "XX" REFERS TO THE TAG ID ASSOCIATED WITH THE MOTOR.
2. ADAPT WIRING IN EXISTING MCC MOUNTED VFD UNIT. ARRANGE SUCH THAT ON A FIRE ALARM SIGNAL THE VFD WILL STOP OPERATING IN "AUTO" MODE.
3. IT IS ACCEPTABLE TO PROVIDE ADDITIONAL TERMINALS OR USE AVAILABLE TERMINALS.

CONSTRUCTION NOTES

- 1 PROVIDE TERMINALS AND JUMPER FOR FUTURE FIRE ALARM INTERLOCK.

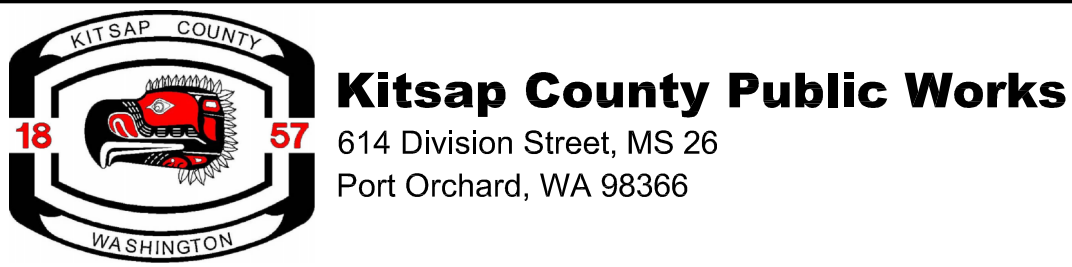
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Designed: N. Palmatier, P.E.	Scale: N/A
Drawn: A. Bradley	One Inch at Full Scale If Not One Inch Scale Accordingly
Checked: C. Orchiltree, P.E.	



KITSAP COUNTY SEWER UTILITY (KCU) CENTRAL KITSAP TREATMENT PLANT (CKTP) HVAC SYSTEM REPLACEMENT
ELECTRICAL - PROCESS BUILDING
SCHEMATIC WIRING DIAGRAM
5 OF 5

Drawing: E7.05
Sheet: 47 of 47
File: P23-10865_E7.05
Date: September 2025