

SUDDEN VALLEY RECREATIONAL CENTER VENTILATION & HVAC REPLACEMENT
4 CLUBHOUSE CIR
BELLINGHAM, WA 98229

MINIMUM DUCT INSULATION TABLE - 2018 WSEC											
DUCT AND PLENUM FUNCTION	FROM BUILDING EXTERIOR TO AUTOMATIC SHUTOFF DAMPER OR HEATING OR COOLING EQUIPMENT	DUCT SERVING INDIVIDUAL SUPPLY AIR UNITS WITH LESS THAN 2,800 CFM OF TOTAL SUPPLY AIR CAPACITY	UNHEATED EQUIPMENT ROOMS WITH COMBUSTION AIR LOUVERS, PROVIDED THEY ARE ISOLATED FROM CONDITIONED SPACE AT SIDES, TOP, AND BOTTOM OF THE ROOM WITH R-11 NOMINAL INSULATION	WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACES BY A MINIMUM INSULATION VALUE OF:	WHERE LOCATED IN UNCONDITIONED SPACES	LOCATED OUTSIDE THE BUILDING IN CLIMATE ZONE 4	LOCATED OUTSIDE THE BUILDING IN CLIMATE ZONE 5	WHERE LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY	WHERE LOCATED WITHIN CONDITIONED SPACE AND CONVEYING AIR AT TEMPERATURES LESS THAN 55 DEG. F OR GREATER THAN 105 DEG. F	WHERE LOCATED WITHIN EQUIPMENT	WHERE THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15 DEG. F
OUTSIDE AIR	PER WSEC C402.1.4 FOR FRAMED METAL WALL	R-7	NONE REQUIRED	NA	NA	NA	NA	NA	NA	NA	NA
SUPPLY AIR	NA	NA	NA	PER WSEC C402.1.4 FOR FRAMED METAL WALL	R-7	R-8	R-12	PER WSEC C402.1.3 FOR EXTERIOR WALL	R-3.3	NONE REQUIRED	NONE REQUIRED
RETURN AIR	NA	NA	NA	PER WSEC C402.1.4 FOR FRAMED METAL WALL	R-7	R-8	R-12	PER WSEC C402.1.3 FOR EXTERIOR WALL	R-3.3	NONE REQUIRED	NONE REQUIRED

ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE														
TAG	MANUFACTURER	MODEL	SERVES	TYPE	EXCHANGE EFFICIENCY (%) TOTAL	SUPPLY CFM	EXTERNAL SP (IN.W.C.)	UNIT POWER	VOLT/PHASE	MCA (AMPS)	MOC (AMPS)	WEIGHT	DIMENSIONS (HXWXD INCHES)	NOTES
ERV-1	CONSERV	N4XH	MAIN FLOOR	CORE	67.40%	3000	1	7.4 KW	208/3	25	30	780	34"x80"x60"	1,2,3,4,5,6,7

- NOTES:
- POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
 - WITH (4) C750A CORES.
 - FLOW ARRANGEMENT IS 100% OUTSIDE AIR.
 - CONTROL WITH OCCUPANCY SCHEDULE.
 - PROVIDE WITH 15 kW ELECTRIC DUCT HEATER, SET AT 70 DEGREE F.
 - MOUNT ON FLOOR
 - PROVIDE MAINTENANCE ACCESS TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

OUTSIDE AIR CALCULATIONS													
ROOM ID	AREA (FT2) (AZ)	OCCUP. LOAD (#P/1000 FT2)	FIXTURES	OCCUPANTS (# PEOPLE)	OUTSIDE AIR REQ'D								
					CFM/FIXT CFM/P (RP)	CFM/FT2 (RA)	BREATHING ZONE OSA (VBZ)	ZONE EFFECT. (EZ)	ZONE OSA (VOZ)	SUPPLY AIRFLOW (PPZ)	EXHAUST AIRFLOW	AIR SYSTEM	
MAIN FLOOR	6100	100	0	400	5	0.06	2366	0.8	2958	3000	3000	ERV-1	

ELECTRIC DUCT HEATER (EDH) SCHEDULE											
TAG	MANUF	SERVES	CFM	HEAT (kW)	VOLTAGE	PHASE	STAGES	CONTROL VOLTAGE	DIMENSIONS (WxL)	WEIGHT (LBS)	NOTES
EDH-1	BRASCH	ERV-1	3000	15	208	3	1	24	34"x14"	100	1,2,3,4,5

- NOTES:
- POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
 - INTERLOCK WITH ERV-1.
 - SELECT MODEL FOR INDOOR USE.
 - PROVIDE ACCESS PER CODE AND INSTALL PER MANUFACTURER'S GUIDELINES.
 - PROVIDE W/ DUCT MOUNTED T-STAT, SET FOR 70 DEGREES F.

REVISIONS			
NO	DATE	BY	DESCRIPTION
-	04/20/23	RR	PERMIT SET

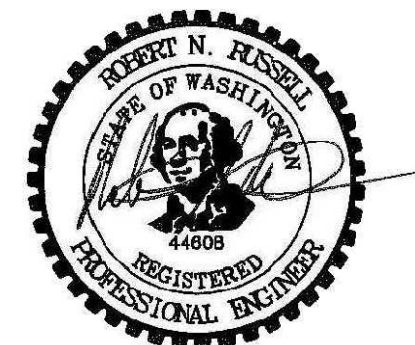
TITLE

SCHEDULES

DESIGNED	RR
DRAWN	RR
CHECKED	RR
DATE	8/29/2023
CADD FILE	2022.37 M1.0.DWG
JOB NUMBER	2022.37

M1.0A

BID SET 8-29-2023



**SUDDEN VALLEY
RECREATIONAL CENTER
HVAC EQUIPMENT REPLACEMENT
4 CLUBHOUSE CIR
BELLINGHAM, WA 98229**

EXIST GAS FURNACE (FC) SCHEDULE																		
TAG	BUILDING	MANUF.	MODEL	CFM	MIN. O.A. (CFM)	INPUT (MBH)	OUTPUT (MBH)	(AFUE)	COOLING COIL	CLG COIL MANUF	CLG COIL MODEL	CORRESPONDING COND UNIT	MOTOR (HP)	VOLT/PHASE	MCA	ARRANGEMENT	WEIGHT (LBS)	NOTES
GF-1	ATTIC	CARRIER	58MCB100-20	2000	-	100	93	93%	YES	CARRIER	CNPHP4821ACA	CU-1	3/4	120/1	14.8	HORIZONTAL	-	1
GF-2	CAFÉ	TRANE	TUD2C100A	2000	-	100	80	80%	YES	CARRIER	CNPVP4821ACA	CU-2	1/2	120/1	0.87 FLA	VERTICAL	-	1
GF-3	GYM	CARRIER	58MCB100-20	2000	-	100	93	93%	YES	CARRIER	CNPVP4821ACA	CU-3	3/4	120/1	14.8	VERTICAL	-	1
GF-4	LOCKER ROOM	PAYNE	PG9MAB048080	1600	-	80	74	92%	NO	-	-	-	1/2	120/1	-	VERTICAL	-	-

- NOTES:
1. WITH COOLING COILS.

EXISTING CONDENSING UNIT SCHEDULE															
TAG	SERVES	LOCATION	MANUF.	MODEL	CAPACITY		ELECTRICAL				EER (SEER)	WEIGHT	SOUND POWER (dBA)	DIMENSIONS (H"xW"xD")	NOTES
					COOL (BTUH)	VOLTAGE	PHASE	MCA	BREAKER						
CU-1	GF-1	ROOF	CARRIER	24ACA348A300	48,000	208	1	26.2	40	(13)	156	74	30"x32"x32"	1,2	
CU-2	GF-2	ROOF	CARRIER	24ACA348A300	48,000	208	1	26.2	40		156	74	30"x32"x32"	1,2	
CU-3	GF-3	POOLSIDE	CARRIER	24ACA348A300	48,000	208	1	26.2	40		156	74	30"x32"x32"	1,2	

- NOTES:
1. POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
2. WITH R-410A REFRIGERANT.

NEW GAS FURNACE (GF) SCHEDULE																		
TAG	BUILDING	MANUF.	MODEL	INPUT (MBH)	OUTPUT (MBH)	(AFUE)	CFM	MIN. O.A. (CFM)	ESP	MOTOR (HP)	VOLT/PHASE	MCA	MOC	COOLING COIL	CORRESPONDING COND UNIT	ARRANGEMENT	WEIGHT (LBS)	NOTES
GF-1	ATTIC	TRANE	S9X1C100	100	97.4	95%	2000	-	0.5"	1	120/1	13.3	15	YES	CU-1	HORIZONTAL	145	1,2,3,4
GF-2	CAFÉ	TRANE	S8X1C100	100	80	80%	2000	-	0.5"	1	120/1	14.1	15	YES	CU-2	VERTICAL	145	1,2,3,4
GF-3	GYM	TRANE	S9X1C100	100	97.4	95%	2000	-	0.5"	1	120/1	13.3	15	YES	CU-3	VERTICAL	145	1,2,3,4
GF-4	LOCKER ROOM	TRANE	S9X1B080	80	77.6	96%	1600	-	0.5"	3/4	120/1	10.3	15	NO	-	VERTICAL	127	1,2

- NOTES:
1. POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
2. WITH PROGRAMMABLE 7-DAY THERMOSTAT.
3. WITH COOLING COILS.
4. FIELD ROUTE CONDENSATE TO NEAREST APPROVED DRAIN.

NEW HEAT PUMP UNIT SCHEDULE																
TAG	SERVES	LOCATION	MANUF.	MODEL	CAPACITY		ELECTRICAL				(SEER)	(HSPF)	WEIGHT	SOUND POWER (dBA)	DIMENSIONS (H"xW"xD")	NOTES
					COOL (BTUH)	VOLTAGE	PHASE	MCA	BREAKER							
CU-1	GF-1	ROOF	TRANE	4TWR4048N1000A	48,000	208	1	26	40	(14)	(8.2)	250	72	47"x34"x37"	1,2,3	
CU-2	GF-2	ROOF	TRANE	4TWR4048N1000A	48,000	208	1	26	40	(14)	(8.2)	250	72	47"x34"x37"	1,2,3	
CU-3	GF-3	POOLSIDE	TRANE	4TWR4048N1000A	48,000	208	1	26	40	(14)	(8.2)	250	72	47"x34"x37"	1,2,3	

- NOTES:
1. POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
2. WITH R-410A REFRIGERANT.
3. PROVIDE WITH DX COILS TO MEET EFFICIENCY LISTED

EXIST UNIT HEATER (UH) SCHEDULE															
TAG	BUILDING	MANUF.	MODEL	INPUT (MBH)	OUTPUT (MBH)	(AFUE)	CFM	MIN. O.A. (CFM)	ESP	MOTOR (HP)	VOLT/PHASE	MCA	MOC	WEIGHT (LBS)	NOTES
UH-1	2ND FLOOR AREA	REZNOR	F75-E-3	75	60	80%	-	-	-	-	120/1	2	15	88	1,2
UH-2	2ND FLOOR AREA	REZNOR	F75-E-3	75	60	80%	-	-	-	-	120/1	2	15	88	1,2
UH-3	2ND FLOOR AREA	REZNOR	F75-E-3	75	60	80%	-	-	-	-	120/1	2	15	88	1,2
UH-4	2ND FLOOR AREA	REZNOR	F75-E-3	75	60	80%	-	-	-	-	120/1	2	15	88	1,2

- NOTES:
1. POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
2. WITH PROGRAMMABLE 7-DAY THERMOSTAT.

NEW GAS-FIRED UNIT HEATER (UH) SCHEDULE															
TAG	BUILDING	MANUF.	MODEL	INPUT (MBH)	OUTPUT (MBH)	(AFUE)	CFM	MIN. O.A. (CFM)	ESP	MOTOR (HP)	VOLT/PHASE	MCA	MOC	WEIGHT (LBS)	NOTES
UH-1	2ND FLOOR AREA	REZNOR	UDX-75	75	62.25	83%	960	-	-	0.06	120/1	3.7	15	76	1,2,3
UH-2	2ND FLOOR AREA	REZNOR	UDX-75	75	62.25	83%	960	-	-	0.06	120/1	3.7	15	76	1,2,3
UH-3	2ND FLOOR AREA	REZNOR	UDX-75	75	62.25	83%	960	-	-	0.06	120/1	3.7	15	76	1,2,3
UH-4	2ND FLOOR AREA	REZNOR	UDX-75	75	62.25	83%	960	-	-	0.06	120/1	3.7	15	76	1,2,3

- NOTES:
1. POWER WIRING, CONDUIT AND DISCONNECT BY E.C.
2. WITH PROGRAMMABLE 7-DAY THERMOSTAT.
3. CONNECT TO EXISTING 4" FLUE, OR REPLACE WITH NEW FLUE AS NEEDED.

REVISIONS			
NO	DATE	BY	DESCRIPTION
-	++	RR	PERMIT SET

TITLE

SCHEDULES

DESIGNED	RR
DRAWN	RR
CHECKED	RR
DATE	8/29/2023
CADD FILE	2023.14 M1.0.DWG
JOB NUMBER	2023.14

M1.0B

BID SET 8-29-2023



**SUDDEN VALLEY RECREATIONAL CENTER
 VENTILATION & HVAC REPPACEMENT
 4 CLUBHOUSE CIR
 BELLINGHAM, WA 98229**

REVISIONS

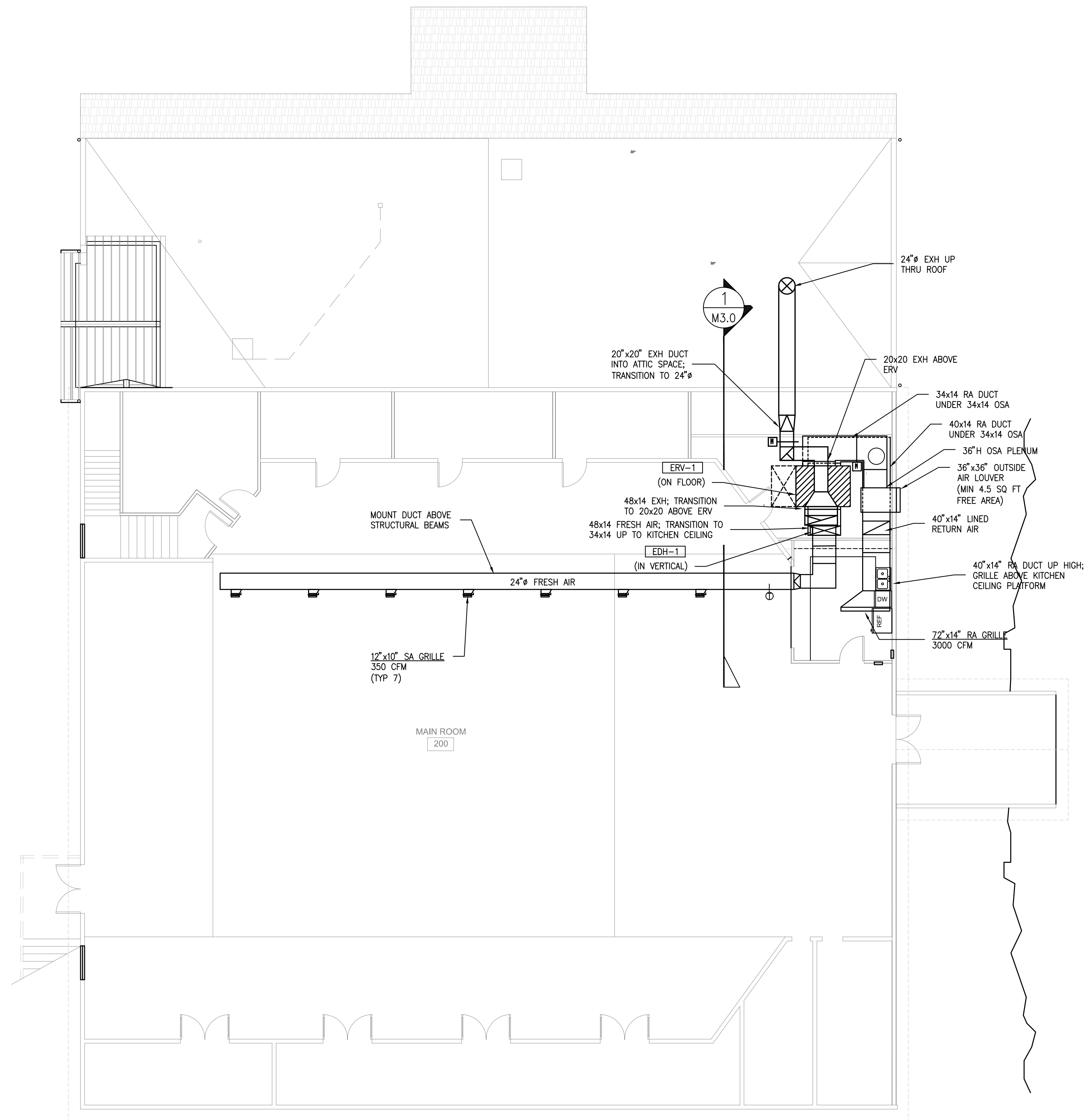
NO.	DATE	BY	DESCRIPTION
-	04/20/23	RR	PERMIT SET

TITLE

HVAC FLOOR PLAN

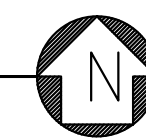
DESIGNED	RR
DRAWN	RR
CHECKED	RR
DATE	8/29/2023
CADD FILE	2022.37 M2.0.DWG
JOB NUMBER	2022.37

M2.0A



HVAC FLOOR PLAN

SCALE: 1/8" = 1'-0"



BID SET 8-29-2023



**SUDDEN VALLEY
RECREATIONAL CENTER
HVAC EQUIPMENT REPLACEMENT
4 CLUBHOUSE CIR
BELLINGHAM, WA 98229**

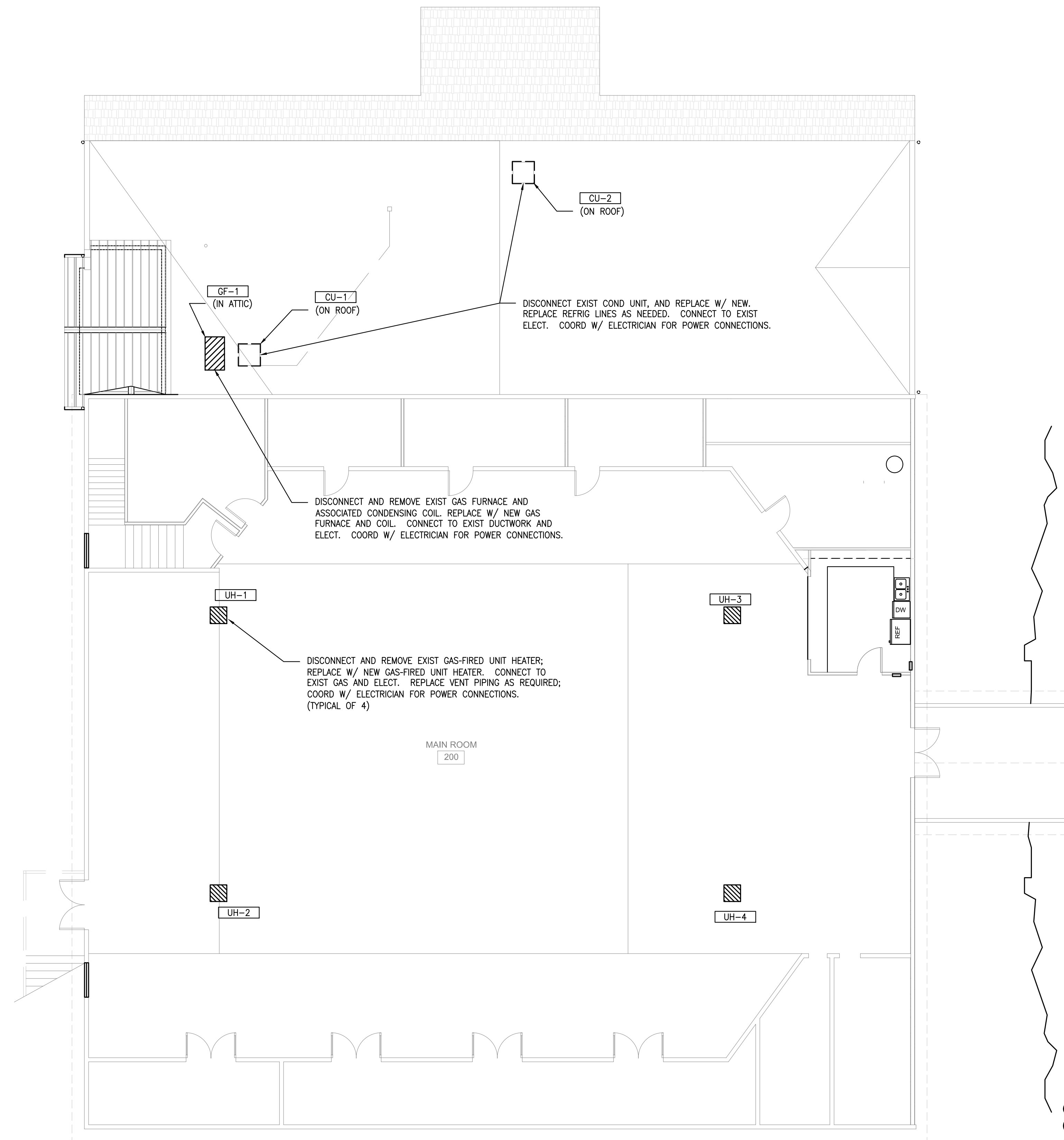
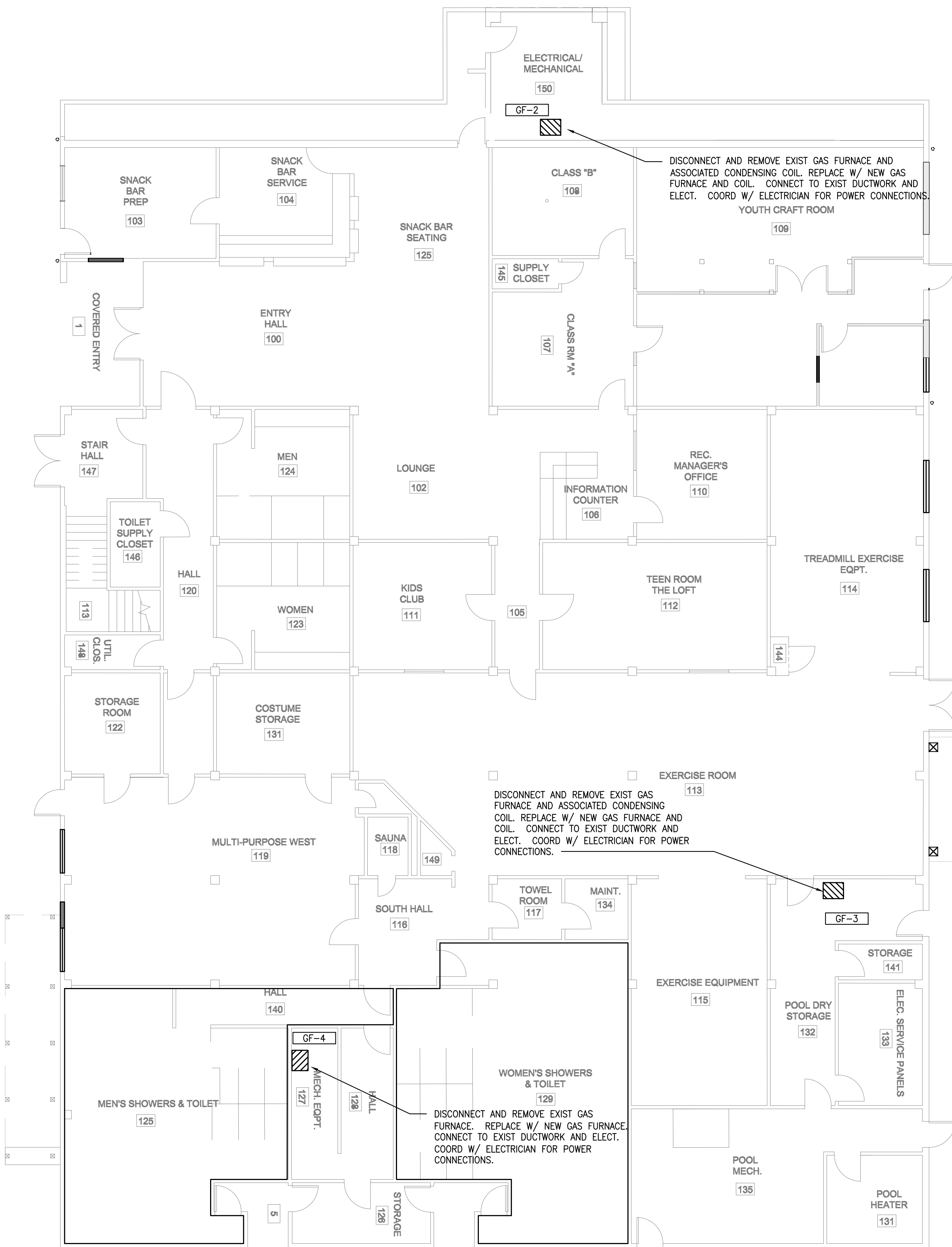
REVISIONS			
NO.	DATE	BY	DESCRIPTION
-	++	RR	PERMIT SET

TITLE

**HVAC FLOOR
PLANS**

DESIGNED	RR
DRAWN	RR
CHECKED	RR
DATE	8/29/2023
CADD FILE	2023.14 M2.0.DWG
JOB NUMBER	2023.14

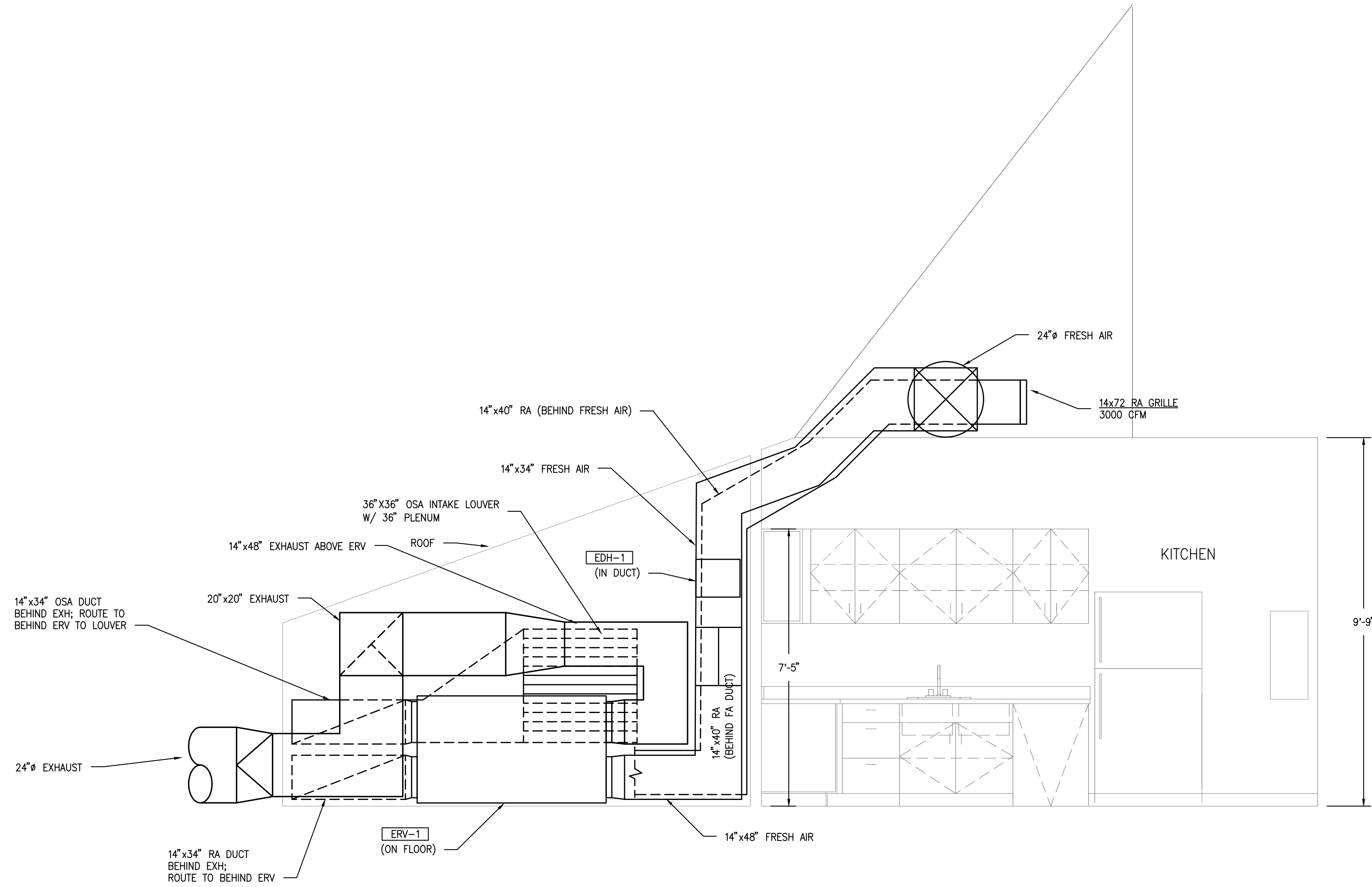
M2.0B



BID SET 8-29-2023



**SUDDEN VALLEY
RECREATIONAL CENTER
VENTILATION & HVAC REPPACEMENT
4 CLUBHOUSE CIR
BELLINGHAM, WA 98229**



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

REVISIONS			
NO	DATE	BY	DESCRIPTION
-	04/20/23	RR	PERMIT SET

TITLE

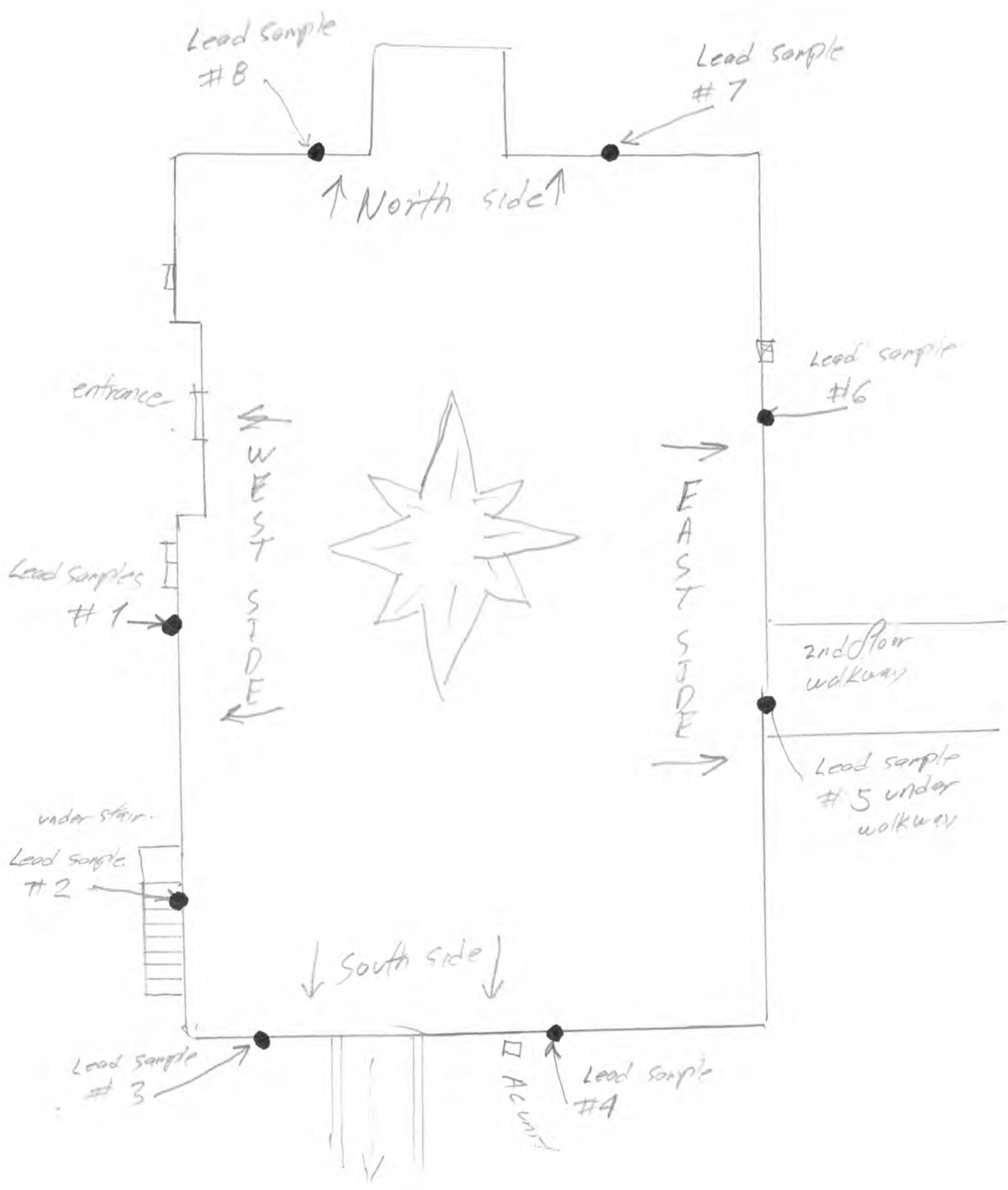
HVAC SECTION

DESIGNED	RR
DRAWN	RR
CHECKED	RR
DATE	8/29/2023
CADD FILE	2022.37 M3.0.DWG
JOB NUMBER	2022.37

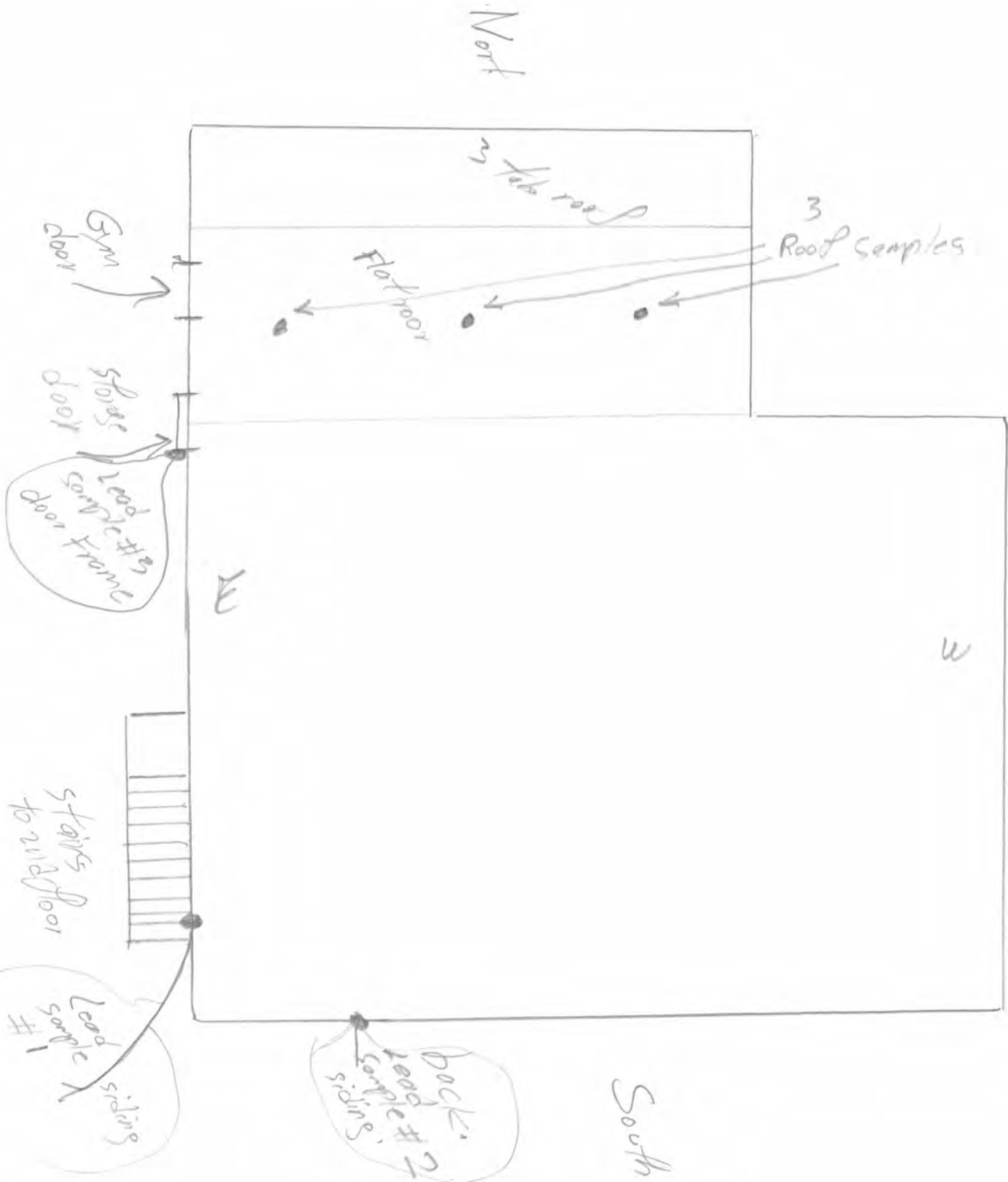
M3.0

BID SET 8-29-2023

⊙ Barnview Samples 2nd time.



6 samples first time



Certificate of Completion

This is to certify that

Alfonso Mazcorro

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of

TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

188091

Certificate Number



Instructor: Andre Zwanenburg

Mar 1, 2023 Expires in 1 year.

Date(s) of Training

Exam Score: N/A
(if applicable)



- Facilities
- Environmental
- Geotechnical
- Material

August 28, 2023

Catherine Marquez

Environmental Abatement Svcs, Inc.

P.O.Box 2503

Mt. Vernon, WA 98273



NVL Batch # 2313609.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: N-A

Location: 8 Barnview Ct. Sudden Valley

Dear Ms. Marquez,

NVL Labs received 8 sample(s) for the said project on 8/25/2023. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Shalini Patel".

Shalini Patel, Manager Metals Lab

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)

Client: Environmental Abatement Svcs, Inc.
Address: P.O.Box 2503
Mt. Vernon, WA 98273

Attention: Ms. Catherine Marquez
Project Location: 8 Barnview Ct. Sudden Valley



NVL

Batch #: 2313609.00

Matrix: Paint
Method: EPA 3051/7000B
Client Project #: N-A
Date Received: 8/25/2023
Samples Received: 8
Samples Analyzed: 8

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
23082902	AM82423-01	0.2022	49	130	0.013
23082903	AM82423-02	0.2068	48	220	0.022
23082904	AM82423-03	0.1818	55	< 55	<0.0055
23082905	AM82423-04	0.2053	49	900	0.090
23082906	AM82423-05	0.1897	53	310	0.031
23082907	AM82423-06	0.2052	49	200	0.020
23082908	AM82423-07	0.1832	55	< 55	<0.0055
23082909	AM82423-08	0.2079	48	< 48	<0.0048

Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 08/28/2023

Date Issued: 08/28/2023


Shalini Patel, Manager Metals Lab

RL = Reporting Limit

'<' = Below the reporting Limit

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2023-0828-02

FAA-02

LEAD LABORATORY SERVICES



NVL

Company Environmental Abatement Svcs, Inc.

NVL Batch Number 2313609.00

Address P.O.Box 2503
Mt. Vernon, WA 98273

TAT 2 Days **AH** No

Rush TAT

Project Manager Ms. Catherine Marquez

Due Date 8/29/2023 **Time** 8:00 AM

Phone (360) 755-1085

Email asbestoseas@aol.com

Cell: (360) 421-0806

Fax (360) 588-4180

Project Name/Number: N-A

Project Location: 8 Barnview Ct. Sudden Valley

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 8

Rush Samples

Lab ID	Sample ID	Description	A/R
1	23082902	AM82423-01	A
2	23082903	AM82423-02	A
3	23082904	AM82423-03	A
4	23082905	AM82423-04	A
5	23082906	AM82423-05	A
6	23082907	AM82423-06	A
7	23082908	AM82423-07	A
8	23082909	AM82423-08	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Drop Box				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Rachelle Miller		NVL	8/25/23	800
Analyzed by	Yasuyuki Hida		NVL	8/28/23	
Results Called by					
<input type="checkbox"/> Faxed	<input type="checkbox"/> Emailed				

Special Instructions:

Date: 8/25/2023
Time: 7:48 AM
Entered By: Rachelle Miller

206.547.0100 Emerg. Cell: 206.914.4646

206.634.1936 1.888.NVLLABS (685.5227)

Client Environmental Abatement Svcs. Inc.

NVL Batch Number

Street P.O. Box 2503

Client Job Number

Mt. Vernon, WA 98273

Total Samples 8

Turn Around Time

- 1 Hr, 2 Hrs, 4 Hrs, 6 Hrs, 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 10 Days

Please call for TAT less than 24 Hrs

Project Manager Ms. Catherine Marquez

Project Location

8 Barnview Ct. Sudden Valley

Email address asbestos@aol.com

Phone: (360) 755-1085 Fax: (360) 588-4180

Cell: (360) 421-0806

Asbestos Air PCM (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II) Other

Asbestos Bulk PLM (EPA/600/R-93/116) PLM (EPA Point Count) PLM (EPA Gravimetry) TEM BULK

Mold/Fungus Mold Air Mold Bulk Rotometer Calibration

METALS Total Metals TCLP Cr 6

Det. Limit FAA (ppm) ICP (ppm) GFAA (pp)

Matrix Air Filter Drinking water Dust/wipe (Area) Soil

Paint Chips in % Paint Chips in cr Waste Water Other

RCRA Metals

Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr)

All 8

Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)

Other Metals

All 3 Copper (Cu) Nickel (Ni) Zinc (Zn)

Other Types of Analysis

Fiberglass Silica Nuisance Dust Respirable Dust

Other (Specify)

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Table with columns: Seq. #, Lab ID, Client Sample Number, Comments (e.g. Sample area, Sample Volume, etc), AIR. Contains 8 rows of sample data.

Signature and Date table with columns: Print Below, Sign Below, Company, Date, Time. Includes signatures for Antonio Marzocco and Rachelle Miller.

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

August 15, 2023

Catherine Marquez

Environmental Abatement Svcs, Inc.

P.O.Box 2503

Mt. Vernon, WA 98273



NVL Batch # 2312887.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: N-A

Location: 8 Barnview Court Sudden Valley

Dear Ms. Marquez,

NVL Labs received 3 sample(s) for the said project on 8/15/2023. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Shalini Patel".

Shalini Patel, Manager Metals Lab

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)

Client: Environmental Abatement Svcs, Inc.
Address: P.O.Box 2503
Mt. Vernon, WA 98273

Attention: Ms. Catherine Marquez
Project Location: 8 Barnview Court Sudden Valley



Batch #: 2312887.00

Matrix: Paint
Method: EPA 3051/7000B
Client Project #: N-A
Date Received: 8/15/2023
Samples Received: 3
Samples Analyzed: 3

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
23077930	AM81423-01	0.1974	51	380	0.038
23077931	AM81423-02	0.1914	52	< 52	<0.0052
23077932	AM81423-03	0.1929	52	< 52	<0.0052

Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 08/15/2023

Date Issued: 08/15/2023


Shalini Patel, Manager Metals Lab

RL = Reporting Limit

'<' = Below the reporting Limit

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2023-0815-06

FAA-02

LEAD LABORATORY SERVICES



NVL

Company Environmental Abatement Svcs, Inc.
Address P.O.Box 2503
 Mt. Vernon, WA 98273
Project Manager Ms. Catherine Marquez
Phone (360) 755-1085
Cell: (360) 421-0806

NVL Batch Number **2312887.00**
TAT 2 Days **AH** No
Rush TAT
Due Date 8/17/2023 **Time** 8:00 AM
Email asbestoseas@aol.com
Fax (360) 588-4180

Project Name/Number: N-A

Project Location: 8 Barnview Court Sudden Valley

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 3

Rush Samples _____

Lab ID	Sample ID	Description	A/R
1	23077930	AM81423-01	A
2	23077931	AM81423-02	A
3	23077932	AM81423-03	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	8/15/23	800
Analyzed by	Yasuyuki Hida		NVL	8/15/23	
Results Called by					
<input type="checkbox"/> Faxed	<input type="checkbox"/> Emailed				

Special Instructions:

Date: 8/15/2023
 Time: 8:46 AM
 Entered By: Kelly AuVu

CHAIN of CUSTODY SAMPLE LOG

2312887

LABORATORY MANAGEMENT SYSTEMS

Client Environmental Abatement Svcs. Inc
 Street P.O Box 2503
Mt. Vernon, WA 98273

NVL Batch Number _____

Client Job Number _____

Total Samples 3

Turn Around Time

- 1 Hr 6 Hrs 3 Days 10 Days
 2 Hrs 1 Day 4 Days
 4 Hrs 2 Days 5 Days
 Please call for TAT less than 24 Hrs

Project Manager Ms. Catherine Marquez

Project Location

8 Barnview Court Sudden Valley

Email address asbestoseas@aol.com

Cell: (360) 421-0806

Phone: (360) 755-1085 Fax: (360) 588-4180

- Asbestos Air PCM (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II) Other
 Asbestos Bulk PLM (EPA/600/R-93/116) PLM (EPA Point Count) PLM (EPA Gravimetry) TEM BULK
 Mold/Fungus Mold Air Mold Bulk Rotometer Calibration

METALS

- | | | | | | | | |
|---------------------------------------|-------------------------------------|---|--|--|---|--------------------------------------|---------------------------------------|
| <input type="checkbox"/> Total Metals | <input type="checkbox"/> FAA (ppm) | <input type="checkbox"/> Air Filter | <input checked="" type="checkbox"/> Paint Chips in % | <input type="checkbox"/> Arsenic (As) | <input checked="" type="checkbox"/> Lead (Pb) | <input type="checkbox"/> All 8 | <input type="checkbox"/> Other Metals |
| <input type="checkbox"/> TCLP | <input type="checkbox"/> ICP (ppm) | <input type="checkbox"/> Drinking water | <input type="checkbox"/> Paint Chips in cm2 | <input type="checkbox"/> Barium (Ba) | <input type="checkbox"/> Mercury (Hg) | <input type="checkbox"/> All 3 | <input type="checkbox"/> Copper (Cu) |
| <input type="checkbox"/> Cr 6 | <input type="checkbox"/> GFAA (ppb) | <input type="checkbox"/> Dust/wipe (Area) | <input type="checkbox"/> Waste Water | <input type="checkbox"/> Cadmium (Cd) | <input type="checkbox"/> Selenium (Se) | <input type="checkbox"/> Nickel (Ni) | <input type="checkbox"/> Zinc (Zn) |
| | <input type="checkbox"/> CVAA (ppb) | <input type="checkbox"/> Soil | <input type="checkbox"/> Other | <input type="checkbox"/> Chromium (Cr) | <input type="checkbox"/> Silver (Ag) | | |

- Other Types of Analysis: Fiberglass Nuisance Dust Other (Specify) _____
 Silica Respirable Dust

Condition of Package: Good Damaged (no spillage) Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		<u>AH81423-01</u>	<u>Red paint chip</u>	
2		<u>AH81423-02</u>	<u>Red paint chip</u>	
3		<u>AH81423-03</u>	<u>white paint chip</u>	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Print Below	Sign Below	Company	Date	Time
Sampled by <u>Alfonso Marcon</u>	<u>[Signature]</u>	<u>EAS</u>	<u>8-14-23</u>	<u>10:00</u>
Relinquished by <u>Alfonso Marcon</u>	<u>[Signature]</u>	<u>EAS</u>	<u>8-14-23</u>	
Received by <u>Kenneth</u>	<u>[Signature]</u>	<u>NM</u>	<u>8/15/23</u>	<u>8:00 PM</u>
Analyzed by _____				
Results Called by _____				
Results Faxed by _____				

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

SEATTLE ASBESTOS TEST, LLC

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Alfonso Mazcorro
Client: Environmental Abatement Services, Inc.
Address: P. O. Box 2503, Mount Vernon, WA 98273
Tel: 360.755.1085
Date Report Issued: 8/14/2023

Date Analyzed: 8/14/2023
Client Job#: N/A
Project Location: 8 Barnview
Laboratory batch#: 202212886
Samples Received: 3

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover letter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

SZhang

Steve (Fanyao) Zhang
Approved Signatory

Certificate of Completion

This is to certify that

Alfonso Mazcorro

has satisfactorily completed
4 hours of online refresher training as an
AHERA Building Inspector
to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

188091
Certificate Number



Instructor: Andre Zwanenburg

Mar 1, 2023 Expires in 1 year.

Date(s) of Training

Exam Score: N/A
(if applicable)



- Facilities
- Environmental
- Geotechnical
- Material:

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200765-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT

[PLM] EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
 [PLM] EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Attn.: Alfonso Mazcorro

Client: Environmental Abatement Services, Inc.

Address: P. O. Box 2503, Mount Vernon, WA 98273

Job#: N/A

Batch#: 202212886

Date Received: 8/14/2023

Samples Rec'd: 3

Date Analyzed: 8/14/2023

Samples Analyzed: 3

Project Loc.: 8 Barnview

Analyzed by: Steve (Fanyao) Zhang

Approved Signatory: Steve (Fanyao) Zhang, President



Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	AM81423-01	1	White/black soft/elastic material with woven fibrous material		None detected	Binder, Filler	20	Synthetic fibers
		2	Clear mastic		None detected	Mastic/binder	4	Cellulose
		3	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	24	Cellulose, Glass fibers
2	AM81423-02	1	White/black soft/elastic material with woven fibrous material		None detected	Binder, Filler	19	Synthetic fibers
		2	Clear mastic		None detected	Mastic/binder	3	Cellulose
		3	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	26	Cellulose, Glass fibers
3	AM81423-03	1	White/black soft/elastic material with woven fibrous material		None detected	Binder, Filler	18	Synthetic fibers
		2	Clear mastic		None detected	Mastic/binder	3	Cellulose
		3	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	24	Cellulose, Glass fibers

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200768-0

Seattle Asbestos Test, LLC
Lynnwood, WA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2019-10-01 through 2020-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Seattle Asbestos Test, LLC
19701 Scriber Lake Road, Suite 103
Lynnwood, WA 98036
Mr. Fanyao (Steve) Zhang
Phone: 425-673-9850 Fax: 425-673-9810
Email: admin@seattleasbestostest.com
<http://www.seattleasbestostest.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200768-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program