SCR | ARCHITECTS
1221 Pike Street, Suite 205
Seattle, WA 98122
206.458.7517

December 5, 2024

EARLY CHILDHOOD CENTER AT TWO RIVERS SCHOOL
Snoqualmie Valley School District

A D D E N D U M N O. 4

Addendum no. 4 is hereby made a part of the Contract Documents for the EARLY CHILDHOOD CENTER AT TWO RIVERS SCHOOL Project, located in North Bend, for Snoqualmie Valley School District.

G E N E R A L A D D E N D U M I T E M S – CONTRACTOR QUESTIONS

Item 1 Contractor Question: *The RCP on A6.01 shows ACT in the restrooms. Per section cut 3/A3.11 it calls for GWB through the shared restroom 131. Please clarify if this restroom gets ACT or GWB. Are the other restrooms GWB or ACT?*

Answer: It is the intent to do hard ceilings (5/8" GWB) in these 4 toilet rooms. See below for other changes in the addendum to address this.

Item 2 Contractor Question: *The spec for the Early Childhood Learning Center at Two Rivers shows a flagpole in Div. 107516.*
Drawing A1.02 shows Remove existing flagpole and salvage for reuse.
Drawing A1.03 shows Relocated flagpole
The question, is there a new flagpole?

Answer: It is the intent to salvage and re-use the existing flagpole.

S P E C I F I C A T I O N A D D E N D U M I T E M S

Item 3 SECTION 00 01 15 - LIST OF DRAWING SHEETS

Add the following sheets to the list under ELECTRICAL:

E4.00 FLOOR PLAN AREA OF WORK – COM, ESS

E5.00 ONE LINE DIAGRAM, SCHEDULES

Item 4 SECTION 08 51 13 – ALUMINUM WINDOWS

Under "2.2 WINDOW PERFORMANCE REQUIREMENTS" revise paragraph C to read:

C. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.38 Btu/sq. ft. x h x deg F.

Item 5 SECTION 08 51 13 – ALUMINUM WINDOWS

Under "2.3 ALUMINUM WINDOWS" revise paragraph A. to read:

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. Kawneer North America.
   a. Kawneer AA 5450 Series Windows.
2. EFCO Corporation. Equivalent as approved by Architect.

Item 6 SECTION 10 14 23.16 – ROOM IDENTIFICATION PANEL SIGNAGE

Under 2.2, A., 1, Revise line to read:

Laminated-Sheet Sign: Photopolymer or acrylic face sheet with raised graphics laminated to acrylic backing sheet to produce composite sheet.

Item 7 SECTION 21 13 13 - WET-PIPE SPRINKLER SYSTEMS

This section was added in addendum one. Delete this specification section in its entirety.

Item 8 SECTION 21 13 16 - DRY-PIPE SPRINKLER SYSTEMS

Add this specification section in its entirety. (Attached)

Item 9 SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC

Under 2.01 MANUFACTURERS, Revise paragraph A and sub- paragraph 1 to read:

A. The control systems shall be furnished and installed by Honeywell Inc. Approved installing Contractor: Honeywell Building Technologies, 15001 NE 36th St, Redmond, WA.

a. Approved installing Contractor: Honeywell Building Technologies, 15001 NE 36th St, Redmond, WA.

b. Contact: Greg Bell, 425-864-2995, E-mail: Greg.Bell7@Honeywell.com

c. No substitutes.

Item 10 SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC

Under 2.02 CONTROL SYSTEM, Revise paragraph A to read:

A. The building's existing Honeywell DDC control system shall be expanded to include the new HVAC equipment. Provide new controllers, sensors, thermostat wiring and conduit as required to provide a fully functional system. Revise the DDC graphics to include the new HVAC equipment and the buildings new floor plan. Interface the existing DDC system with the new HVAC equipment to allow for adjustments of setpoints, status, alarms and scheduling through the central DDC system.".

Under 2.02 CONTROL SYSTEM,

DELETE Paragraph B and C.

Item 11 SECTION 23 34 00 - FANS

Under 1.01 SUMMARY, Under "A. Section Includes", Add second item to read:

"2. Ceiling Exhaust Fans"

Item 12 SECTION 23 34 00 - FANS

Under Part 2 Products, Add second add second section to read:

2.02 CEILING EXHAUST FANS

A. Manufacturers:

1. Greenheck
2. Loren Cook
3. PennBarry

B. Ceiling mounted exhaust fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of heavy-gauge galvanized steel. The housing interior shall be lined with 0.5 in. acoustical insulation. The outlet duct collar shall include a spring loaded aluminum backdraft damper. Outlet shall be adaptable for horizontal or vertical discharge. The grille shall be constructed of aluminum.

C. The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type. The motor shall be mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Sound and Air Performance seal and shall be UL/ Listed.

D. Accessories:

1. Wall cap with damper, round duct inlet.
2. Fan speed controller."

Item 13 SECTION 23 54 00 - HVAC HEATERS

Add this specification section in its entirety. (Attached)

D R A W I N G A D D E N D U M I T E M S

Sheet A6.01 – REFLECTED CEILING PLAN

Item 14 Ceilings in toilet rooms 128, 131, 135 and 137,(shared toilet rooms between classrooms) are to be finished 5/8 GWB. See addendum drawing SA-03 for additional clarification. (Attached)

Sheet M1.01 – MECHANICAL FLOOR PLAN

Item 15 ADD the grille tag which reads: "C, 100" to the grill symbol at Classroom 8.

Sheet M2.01 – ENLARGED MECHANICAL PLANS (revised sheet attached)

Item 16 ADD the Energy Recovery Ventilator Schedule as shown on the attached sheet.

Item 17 ADD the Electric Heater Schedule as shown on the attached sheet.

Item 18 ADD the Exhaust Fan Schedule as shown on the attached sheet

See Attached REVISED Sheet M2.01 – ENLARGED MECHANICAL PLANS

Sheet E2.00 – FLOOR PLAN / AREA OF WORK - LIGHTING

Item 19 Type RL-1 fixtures shown in Classrooms 1,2,3,4,5&6 shall be existing fixtures re-used. In bid, allow for three new Type RL-1 fixtures per classroom to supplement existing fixtures as needed to achieve the layouts of Type RL-1 fixtures shown.

Item 20 In Classrooms 1,2,3,4,5&6, delete automatic dimming for Daylight Zone 2. Automatic dimming shown shall be for Daylight Zone 1 only as existing Type RL-1 fixtures in Daylight Zone 2 are not dimmable.

Item 21 Type RL-1 fixtures shown in Classrooms 7&8 shall all be new.

Item 22 Type RL-1 fixtures shown in Nurse's Office 116 shall be existing fixtures re-used.

Item 23 At four shared restrooms (Classrooms 1& 2, Classrooms 3&4, Classrooms 5&6 and Classrooms 7&8), delete Type RL-1 fixtures shown. Instead of Type RL-1 fixtures, install one Type SL-3 fixture per shared restroom.

Sheet E4.00 FLOOR PLAN, AREA OF WORK – COM, ESS

Item 24 Fire alarm system work as indicated shall be performed by a fire alarm vendor qualified to work on existing Honeywell panel. Contractor shall enlist a vendor as a sub. Vendor shall develop shop drawings for the scope indicated and submit to fire marshal for review and approval. Refer to Specification Section 28 31 11.

Sheet E5.00 ONE LINE DIAGRAM, SCHEDULES

Item 25 Lighting Fixture Schedule. Type RL-1 shall be a combination of new and re-used fixtures. Where new, Type RL-1 shall be Metalux #24FPSL2SCT3 or equal. 2'x4' recessed edge lit LED panel with medium output.

Item 26 Lighting Fixture Schedule. Add Type SL-3. Pinnacle Architectural Lighting Fina F14D or equal. 14" diameter surface LED direct fixture with satine lens and medium output.

Item 27 Lighting Fixture Schedule. For Type P1, add McGraw-Edison (fixture) and Hapco (pole) as acceptable manufacturers.

Item 28 Mechanical Equipment Connection Schedule. Change ERV-1 & ERV-2 to 208V, single phase. Circuit to Panel P1A. Add (2)15/2 breakers at Panel P1A to feed ERV-1 & ERV-2.

Item 29 Mechanical Equipment Connection Schedule. Delete ERV-3.

Item 30 Mechanical Equipment Connection Schedule. Add EH-4 located in shared restroom between Classrooms 7 & 8. Provide 120V circuit from Panel P1A.

END OF ADDENDUM NO. 4

This section added per Addendum 4 in it's entirety.

SECTION 21 13 16
DRY-PIPE SPRINKLER SYSTEMS

PART 1 – GENERAL

1.01 SUMMARY

A. Work Included: The work of this Section includes, but is not limited to, the design, provision, and testing of a complete fire protection system as described herein and as required by the Authorities having jurisdiction.

B. Section includes dry-pipe sprinkler system, system design, installation, and certification.

1.02 REFERENCES

A. National Fire Protection Association:

1. NFPA 13 - Installation of Sprinkler Systems.

1.03 SYSTEM DESCRIPTION

A. Provide complete fire protection systems as specified and as required by the Authorities Having Jurisdiction. Where there is conflict between local authority requirements or other standards, agency recommendations, and these drawings and specifications, conform with recommendations of standards agencies and requirements of local authorities. Design and install all systems in accordance NFPA 13 and all applicable codes, standards, and regulations.

B. Modify and expand the existing dry-pipe sprinkler system to serve the remodeled areas and areas of the new addition as shown on the drawings.

C. System to provide coverage for building areas noted.

D. Provide hydraulically designed system to NFPA 13 light hazard occupancy requirements.

E. Determine volume and pressure of incoming water supply from water flow test data.

F. Interface system with building fire and smoke alarm system.

1.04 SUBMITTALS

A. Shop Drawings: Indicate layout of finished ceiling areas indicating sprinkler locations coordinated with ceiling installation. Indicate detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.

B. Product Data: Submit data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

C. Design Data: Submit design calculations.

D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.05 CLOSEOUT SUBMITTALS

A. Project Record Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations.

B. Operation and Maintenance Data: Submit components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.06 QUALITY ASSURANCE

A. Perform Work in accordance with NFPA 13.

B. Maintain one copy of each document on site.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Store products in shipping containers until installation.

B. Furnish piping with temporary inlet and outlet caps until installation.

1.08 EXTRA MATERIALS

A. Furnish extra sprinklers under provisions of NFPA 13.

B. Furnish suitable wrenches for each sprinkler type.

PART 2 – PRODUCTS

2.01 ABOVE GROUND PIPING

A. Steel Pipe: ASTM A53/A53M, Grade B Schedule 10 or Schedule 40, galvanized.

1. Steel Fittings: ASME B16.9, wrought steel, butt welded; ASME B16.5, steel flanges and fittings; ASME B16.11, forged steel socket welded and threaded.
2. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings; ASME B16.4, threaded fittings.
3. Malleable Iron Fittings: ASME B16.3, threaded fittings, ASTM 47.
4. Mechanical Grooved Couplings: Malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe.
5. Mechanical Formed Fittings: Carbon-steel housing with integral pipe stop and O-ring pocked and O-ring uniformly compressed into permanent mechanical engagement onto pipe.
6.

B. Copper Tubing: ASTM 75; ASTM B88; Type M, hard drawn.

1. Fittings: ASME B16.22, wrought copper and bronze, solder joint, pressure type.
2. Joints: AWS A5.8 Classification BCuP-3 or BCuP-4 silver braze.

2.02 SPRINKLERS

A. Manufacturers:
   1. Ansul Incorporated Model.
   2. Automatic Sprinkler Corp.
   3. Grinnell Corp.
   4. Reliable Sprinkler Corp.
   5. Tyco

B. Suspended Ceiling Type:
   1. Type: Semi-recessed pendant type with matching push on escutcheon plate.
   2. Finish: Chrome plated.
   3. Escutcheon Plate Finish: Chrome plated.
   4. Fusible Link: Glass bulb type temperature rated for specific area hazard.

C. Exposed Area Type:
   1. Type: Standard upright type.
   2. Finish: Chrome plated.
   3. Fusible Link: Glass bulb type temperature rated for specific area hazard.

D. Side wall Type:
   1. Type: Recessed horizontal side wall type with matching screw on escutcheon plate.
   2. Finish: Chrome plated.
   3. Escutcheon Plate Finish: Chrome plated.
   4. Fusible Link: Glass bulb type temperature rated for specific area hazard.

2.03 PIPING SPECIALTIES

PART 3 – EXECUTION

3.01 INSTALLATION

A. Install in accordance with NFPA 13.

B. Place pipe runs to minimize obstruction to other work.

C. Install piping in concealed spaces above finished ceilings.

D. Center sprinklers in two directions in ceiling tile and install piping offsets.

E. Hydrostatically test entire system.

F. Require test be witnessed by Authority having jurisdiction.

3.02 INTERFACE WITH OTHER PRODUCTS

A. Verify signal devices are installed and connected to fire alarm system.

3.03 CLEANING

A. Flush entire piping system of foreign matter.

3.04 PROTECTION OF INSTALLED CONSTRUCTION

A. Apply masking tape or paper cover to protect concealed sprinklers, cover plates, and sprinkler escutcheons not receiving field paint finish. Remove after painting. Replace painted sprinklers with new.

3.05 SCHEDULES

A. System Hazard Areas:

Location	System Type/Hazard
Offices, Classrooms	Light Hazard

END OF SECTION 21 13 13

This section added per Addendum 4 in it's entirety.

SECTION 23 54 00
HVAC HEATERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Electric Wall Heaters

1.2 REFERENCES

A. National Electrical Manufacturers Association:
   1. NEMA MG 1 - Motors and Generators.

1.3 SUBMITTALS

A. Product Data: Submit rated capacities, efficiencies, weights, required clearances, and location and size of field connections, accessories, electrical nameplate data, and wiring diagrams.

1.4 CLOSEOUT SUBMITTALS

A. Project Record Documents: Record actual locations of components and connections.

B. Operation and Maintenance Data: Submit manufacturer's descriptive literature, operating instructions, service instructions, installation instructions, maintenance and repair data, and parts listing.

PART 2 - PRODUCTS

2.1 WALL HEATERS

A. Manufacturers:
   1. King
   2. Q-Mark

B. Elements: Element assemblies shall consist of three steel sheathed heating tubes in a furnace brazed, plate finned, block design. Each sheathed tube shall contain coiled Ni-Chrome wire embedded in an insulator of magnesium oxide. The element assembly shall provide up to (5) possible wattage configurations available for selection during field installation. The use of external resistors, diodes or other weak links to obtain multiple wattages will not be accepted.

C. Grille: The grille shall be a louvered, one piece curved front design with rounded edges.

D. Wall Can: 20-gauge wall can with 3 electrical knock outs. Aluminum propeller fan with totally enclosed fan motor.

E. 2-stage heating, with up-down temperature mode, fan start/stop and timer modes. Thermal cut-out, low voltage relay and disconnect switch in back box.

SECTION 23 54 00
HVAC HEATERS

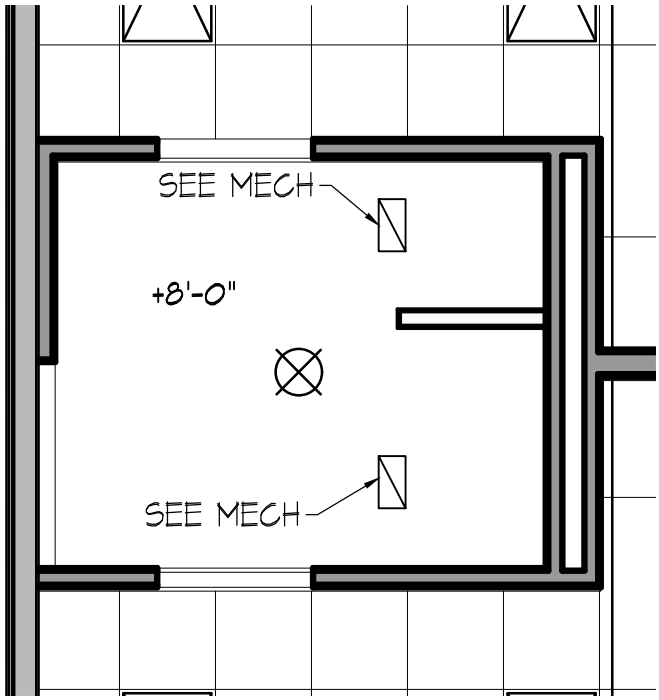
F. Integral adjustable thermostat.

PART 3 - EXECUTION

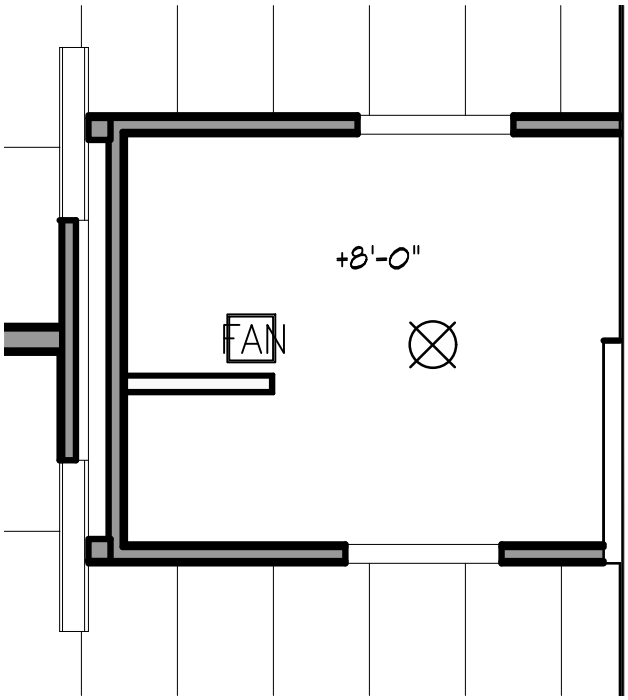
3.1 EXAMINATION

A. Verify building is ready for installation of units and openings are as indicated on Drawings.

END OF SECTION 23 54 00



4 RR 137 ENLARGED RCP
1/4" = 1'-0"



3 RR 135 ENLARGED RCP
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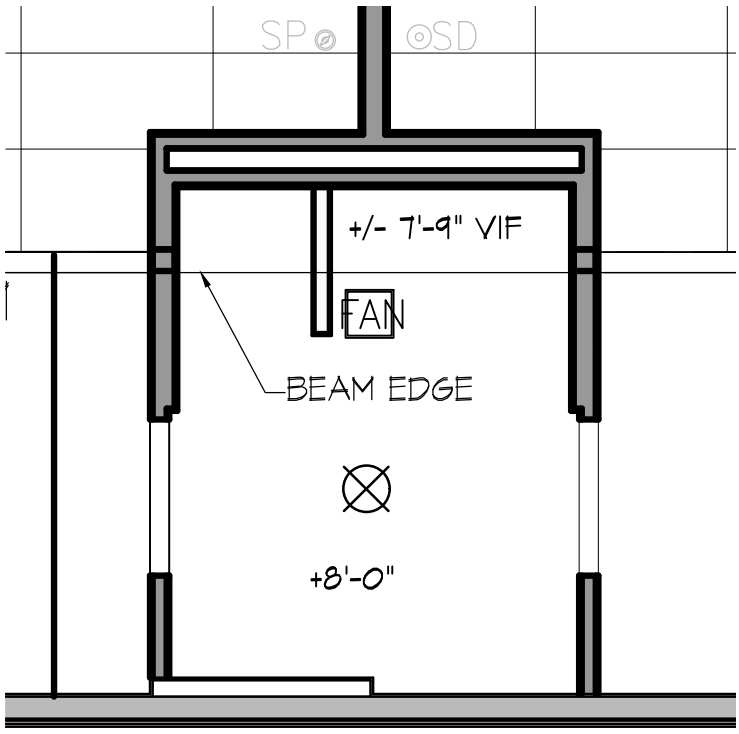

2 RR 131 ENLARGED RCP
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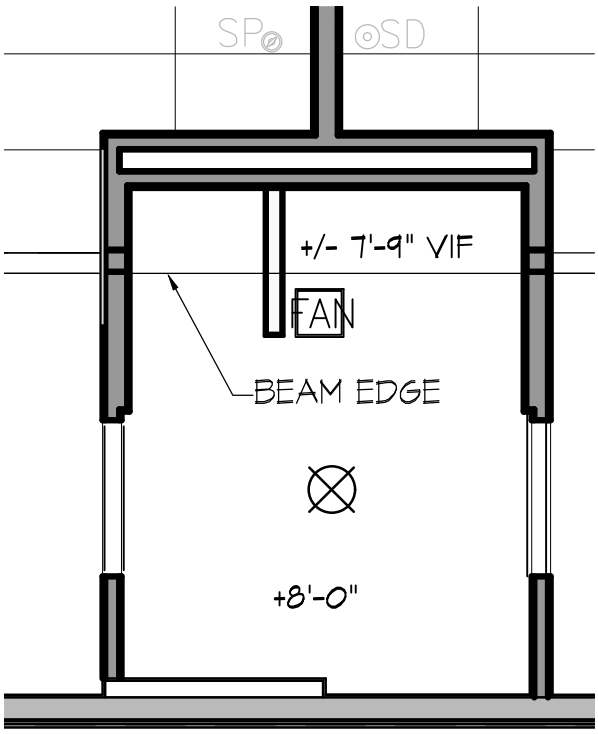

1 RR 128 ENLARGED RCP
1/4" = 1'-0"

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EARLY CHILDHOOD CENTER
AT TWO RIVERS SCHOOL
SNOQUALMIE VALLEY SCHOOL DISTRICT

ADDENDUM DRAWING #	AA-03
SCALE:	1/4" = 1'-0"
REFERENCE:	A1.03
DATE	11 / 16 / 2024
ARCH.JOB NO.	1919

ENERGY RECOVERY VENTILATOR SCHEDULE

Tag	Mitsubishi Model Number	Interlocked or Stand Alone	Core Type	Nominal Airflow (cfm)	Max ESP (IN WG)	Nominal Recovery Effectiveness (Extra High Fan Speed)			Voltage / Phase	MCA / MOCP	Notes / Options
						Temperature Recovery	Enthalpy Cooling	Enthalpy Heating			
ERV-1	LGH-F300RVX2-E	Stand-Alone	Fixed Permeable Cross Plate	300	1.00	65.5%	50.0%	63.0%	208-230V/1-phase	4.3/15	1
ERV-2	LGH-F300RVX2-E	Stand-Alone	Fixed Permeable Cross Plate	300	1.00	65.5%	50.0%	63.0%	208-230V/1-phase	4.3/15	1

NOTES:
1. Maximum external static pressure is at airflow listed with fan set on extra high speed.

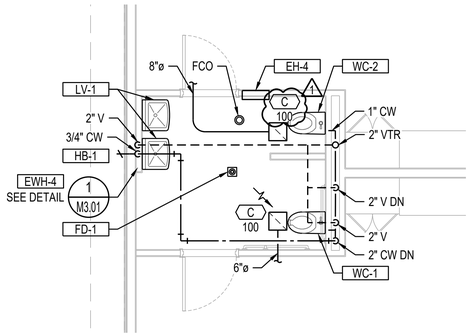
ELECTRIC HEATER SCHEDULE

EQUIP NO	AREA SERVED	MODEL	VOLTS	PHASE	KILOWATTS	COLOR	WEIGHT LBS	CFM	STAGES	REMARKS
EH-1	RESTROOM 1-2	KING MODEL PX1215-ECO-WD-R	120	1	1.25	WHITE	13	75	2	
EH-2	RESTROOM 3-4	KING MODEL PX1215-ECO-WD-R	120	1	1.25	WHITE	13	75	2	
EH-3	RESTROOM 5-6	KING MODEL PX1215-ECO-WD-R	120	1	1.25	WHITE	13	75	2	
EH-4	RESTROOM 7-8	KING MODEL PX1215-ECO-WD-R	120	1	1.25	WHITE	13	75	2	

EXHAUST FAN SCHEDULE

EQUIP NO	AREA SERVED	FAN TYPE	AIRFLOW CFM	EXT SP IN WG	RPM	MOTOR			SONES (INLET)	DRIVE	MANUF. & MODEL	CONTROL	REMARKS
						HP (W)	VOLTS	PHASE					
EF-1	RESTROOM 1-2	CEILING	100	0.375	721	25W	120	1	2	DIRECT	GREENHECK SP-A200	LIGHT SWITCH	NOTE 1
EF-2	RESTROOM 3-4	CEILING	100	0.375	721	25W	120	1	2	DIRECT	GREENHECK SP-A200	LIGHT SWITCH	NOTE 1
EF-3	RESTROOM 5-6	CEILING	100	0.375	721	25W	120	1	2	DIRECT	GREENHECK SP-A200	LIGHT SWITCH	NOTE 1

NOTE 1: PROVIDE WALL CAP AND BACKDRAFT DAMPER



1 M2.01 ENLARGED FLOOR PLAN

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

0 1 2 4 8 16 feet

N

SCR | Architects
1402 3rd Ave Suite 730
Seattle, WA 98101

LEE W. BOGARD
STATE OF WASHINGTON
21368
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY
JK
CHECKED BY
LWB
APPROVED BY

PROJECT NAME
EARLY CHILDHOOD CENTER AT TWO RIVERS SCHOOL
330 BALLARET AVE NE
NORTH BEND, WA 98045

SNOQUALMIE VALLEY SCHOOL DISTRICT
8001 SILVA AVE SE/PO BOX 400
SNOQUALMIE, WA 98065

PROJECT NO.
1919
ISSUE DATE
10/31/24
CURRENT REVISION

REVISION	DATE
BID SET	10/31/24
1 REVISION 1	12/2/24

ENLARGED MECHANICAL PLANS

SCALES AS NOTED

M2.01