



ALASKA RAILROAD CORPORATION
327 W. Ship Creek Ave.
Anchorage, AK 99501
Phone 907-502-0007
HumphreyC@akrr.com

March 21, 2024

Addendum Number 3
24-18-211863 Warehouse Heating System Upgrade
Closing Date: 03/27/2024

This addendum is issued to provide information as follows:

Please see attached revised electrical drawings. These address changes to power and circuiting for radiant heaters. Should vendors need more time to produce a bid, please advise in writing by Monday, March 25, 2024 at 1:00 P.M.

Please acknowledge receipt of this and all addendums via email. **All other dates, terms and conditions remain unchanged.**

Please direct all responses and/or questions concerning this solicitation to Candice Humphrey, via email HumphreyC@akrr.com.

Respectfully,

Candice Humphrey
Contract Administration Specialist

PANEL: 2A

PROJECT: ARRC WAREHOUSE 1
LOCATION: WAREHOUSE BUILDING

VOLTAGE: 208Y/120 VOLT

MOUNTING MAINS

☒ SURFACE ☒ LUGS
☒ FLUSH ☒ CB

OPTIONS

☐ FEEDTHRU ☐ SHUNT TRIP ☐ ISO GND BAR
☐ SUBFEED LUG ☐ SUBFEED BRKR ☐ SOLID NEUTRAL

VOLTAGE: 208Y/120 VOLT		3 PHASE		4 WIRE		400 A MLO		10k AIC	
CIRCUIT DESCRIPTION		KVA	AMP	P	CKT	AMP	P	KVA	CIRCUIT DESCRIPTION
PANEL C			100	3	1	50	3		BOILER PLANT
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
PUMP RELAY AND VACCUUM PUMP, VP-02	2.0	20	2	2	30	2			DRYER
MEZZ / XMR ROOM LIGHT / OUTLET		20	1	11	12	20	1		WATER HEATER
FIRE ALARM PANEL		20	1	13	14				
BACK MAN DOOR EXIT		20	1	15	16	60	3		BATTERY CHARGER #1 & #2
WAREHOUSE LIGHTS		20	1	17	18				
WAREHOUSE LIGHTS		20	1	19	20	20	1		MEZZANINE CEILING OUTLETS
WAREHOUSE LIGHTS		20	1	21	22	20	1		LAVATORY HEATER
WAREHOUSE LIGHTS CONTROL		20	1	23	24	20	1		LAVATORY LIGHTS / OUTLETS
LOWER SHELF OUTLETS		20	1	25	26	20	1		DISHWASHER
MEZZANINE SHELF OUTLETS		20	1	27	28	20	1		WAREHOUSE OUTLETS
LOWER SHELF OUTLETS		20	1	29	30	20	1		WRAPPING MACHINE / OUTLETS
LOWER SHELF OUTLETS		20	1	31	32	20	1		MEZZANINE / WAREHOUSE OUTLETS
UNKNOWN		20	1	33	34	20	1		WAREHOUSE OUTLETS
FRONT LOWER SHELF OUTLETS		20	1	35	36	20	1		WAREHOUSE COMPUTER
UNKNOWN		20	1	37	38	20	1		EXTERIOR LIGHTING CONTROL
UNKNOWN		20	1	39	40	30	1	2.9	CONTROL PANEL, CP-01
LOW SHELF OUTLETS / DOOR 3 LIGHTS		20	1	41	42	20	1		SPARE
UNKNOWN		20	1	43	44	20	1		SHELVING LIGHTING
SPARE		20	1	45	46	20	1		SHELVING LIGHTING
FIRE ALARM CELLULAR OUTLET		20	1	47	48	20	1		SHELVING LIGHTING
EXTERIOR LIGHTS		30	2	49	50	20	1		SPARE
		20	1	51	52	20	1		120 VOLT BATTERY CHARGER OUTLET
SPARE		20	1	53	54	20	1		SPARE
CONNECTED LOAD:		4.9 KVA			13.6 A	REMARKS:			
DEMAND LOAD:		5.4 KVA			15.0 A	SQUARE D NQ TYPE PANELBOARD			

PANEL: A (BOILER)

PROJECT: ARRC WAREHOUSE 1
LOCATION: BOILER BUILDING

VOLTAGE: 208Y/120 VOLT

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VOLTAGE: 208Y/120 VOLT		3 PHASE		4 WIRE		60 A MLO		10k AIC		
CIRCUIT DESCRIPTION		KVA	AMP	P	CKT	CKT	AMP	P	KVA	CIRCUIT DESCRIPTION
RECP			20	1	1	2	20	1		LIGHTS
FUEL OIL PUMP			20	1	3	4	20	1		ALARM PANEL
SPARE			20	1	5	6	20	1		RECP
AIR DRYER			20	1	7	8	15	1	0.5	UNIT HEATER
SUMP PUMP			15	1	9	10	20	1		SPARE
GLYCOL PUMP			15	1	11	12	20	1		BOILER #1 CONTROL POWER
BOILER #2 CONTROL POWER			20	1	13	14	-	1		SPACE
SPACE			-	1	15	16	-	1		SPACE
SPACE			-	1	17	18	-	1		SPACE
SPACE			-	1	19	20	-	1		SPACE
SPACE			-	1	21	22	-	1		SPACE
SPACE			-	1	23	24	-	1		SPACE
CONNECTED LOAD:			0.5 KVA		1.5 A	REMARKS:				
DEMAND LOAD:			0.7 KVA		1.8 A	REUSE EXISTING CIRCUIT BREAKER FOR REVISED LOADS				

WIRING DEVICES LEGEND

	PUSH BUTTON
	JUNCTION BOX
	GFCI
	RECEPTACLE - QUAD
	EQUIPMENT CONNECTION

POWER LEGEND

	ELECTRICAL POWER PANEL
	MOTOR CONTROL CENTER
	METER
	CONTROLLER/DISCONNECT
	UNFUSED DISCONNECT
	FUSED DISCONNECT
	MOTOR SINGLE PHASE
	MOTOR 3PH
	FRACTIONAL HORSEPOWER MOTOR STARTER

LIGHTING LEGEND

	4' STRIP LIGHT FIXTURE
	CEILING MOUNTED EGRESS LIGHT FIXTURE

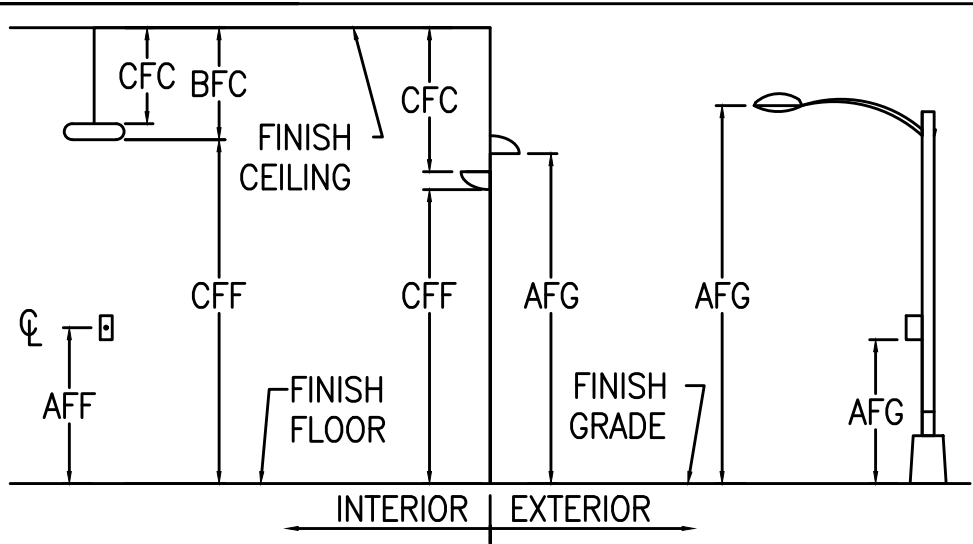
LINE TYPE LEGEND

	EXISTING
	NEW
	DEMOLITION

ABBREVIATIONS LEGEND

ABBR.	EXPLANATION
AB	ABOVE BASEBOARD
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
CFC	CLEARANCE FROM CEILING
CFF	CLEARANCE FROM FLOOR
CT	CURRENT TRANSFORMER
DDC	DIRECT DIGITAL CONTROL
E	EMERGENCY LIGHT, CIRCUIT, PANEL
ETR	EXISTING TO REMAIN
GDP	GENERATOR DISTRIBUTION PANEL
GFCI	GROUND FAULT CURRENT INTERRUPTER
HACR	HEATING AIR-CONDITIONING REFRIGERATION
HBH	HEAD BOLT HEATER
HDPE	HIGH DENSITY POLYETHYLENE
HEA	HOMER ELECTRIC ASSOCIATION
HOA	HANDS OFF AUTO
MCC	MOTOR CONTROL CENTER
MC	METAL CLAD CABLE
MDP	MAIN DISTRIBUTION PANEL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PA	PUBLIC ADDRESS
PVC	POLYVINYL CHLORIDE
RSC	RIGID STEEL CONDUIT
SPD	SURGE PROTECTION DEVICE
ST	SHUNT TRIP CIRCUIT BREAKER
STBY	STANDBY CIRCUIT
TC	TIMECLOCK
TMCB	THERMO MAGNETIC CIRCUIT BREAKER
TP	TAMPER RESISTANT
TVSS	TRANSIT VOLTAGE SURGE SUPPRESSION
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNT +60" AFF
WP	WEATHERPROOF
XFMR	TRANSFORMER

MOUNTING LEGEND



NOTES:

- EXISTING BREAKER MARKED AS SPARE TO BE USED FOR NEW LOAD. FIELD VERIFY AVAILABILITY PRIOR TO CONNECTION.
- DEMOLISH SPARE 20A/1P BREAKERS. PROVIDE NEW 20A/2P BREAKER FOR VACUUM PUMP.

IF SHEET IS LESS THAN
22" X 34"
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY



MBA Consulting Engineers, Inc.
3812 Spenard Road, Suite 200 • Anchorage, AK 99517
(907) 274-2622 • FAX (907) 274-0914

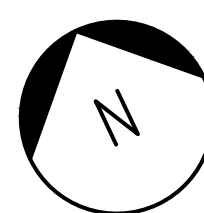
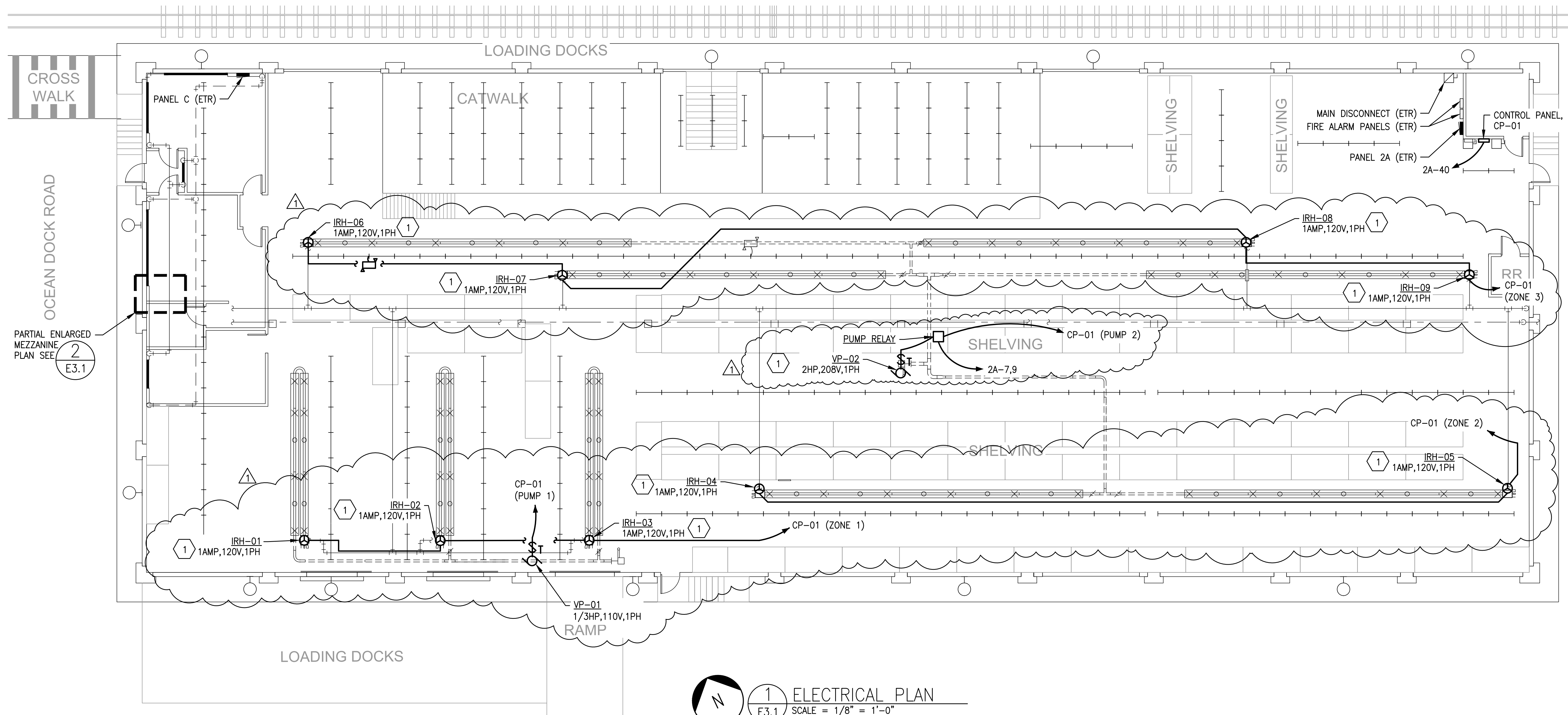
REV.	DATE	BY	REVISION
1	3/20		ADDENDUM 1

ALASKA RAILROAD CORPORATION
ENGINEERING SERVICES
P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

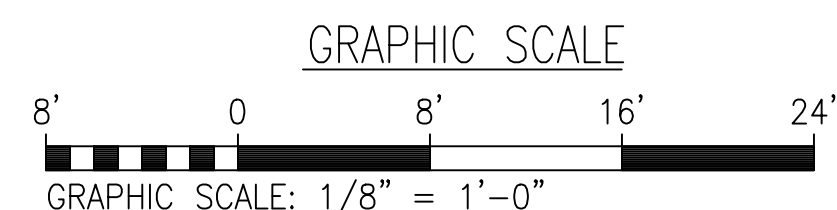
PROJECT: **ALASKA RAILROAD CORPORATION
WAREHOUSE #1 HEATING RENOVATION**

TITLE: **ELECTRICAL LEGEND AND SCHEDULES**

DESIGNED BY: EWC	SCALE: AS NOTED	E1.0	AFE NO.:
DRAWN BY: PDO/JAB	DATE: 12/14/2023		ACAD FILE:
CHECKED BY: EWC			DWG NO.
APPROVED BY: EWC			11 OF 16

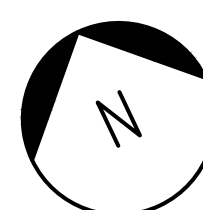


1 ELECTRICAL PLAN
E3.1 SCALE = 1/8" = 1'-0"

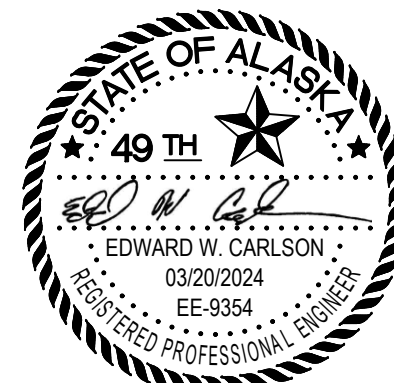
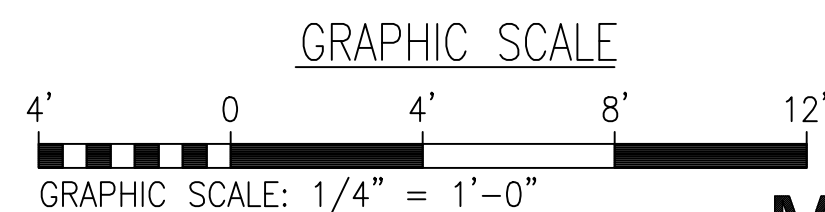
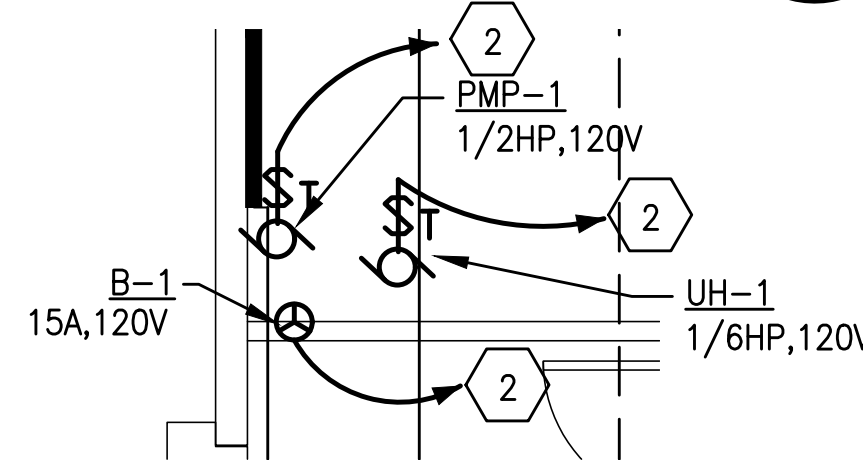


NOTES:

- 1 INSTALL RADIANT HEATER CONTROLS AND SAFETIES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. CONNECT TO CIRCUIT INDICATED.
- 2 PROVIDE 1/2" C, 2#12, 1#12 GND TO AVAILABLE POLE SPACE IN PANEL 'C'. REUSE EXISTING IF PRACTICAL OR PROVIDE NEW 20A/1P BREAKER LISTED FOR USE IN EXISTING PANEL AS REQUIRED FOR NEW LOAD.



2 PARTIAL MEZZANINE PLAN - ELECTRICAL
E3.1 SCALE = 1/4" = 1'-0"



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REV.	DATE	BY	REVISION
1	3/20		ADDENDUM 1

ALASKA RAILROAD CORPORATION
ENGINEERING SERVICES
P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

PROJECT: **ALASKA RAILROAD CORPORATION WAREHOUSE #1 HEATING RENOVATION**

TITLE: **ELECTRICAL PLAN**

DESIGNED BY: EWC	SCALE: AS NOTED	E3.0	AFE NO.:
DRAWN BY: SNS/JAB	DATE: 12/14/2023		ACAD FILE:
CHECKED BY: EWC			DWG NO. 14 OF 16
APPROVED BY: EWC			