



State of Utah

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Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 4

Date: December 9, 2011

To: Invited Contractors

From: Bianca Shama

Reference: Various Energy Upgrades – Weber Valley Detention Center
Division of Juvenile Justice Services – Roy, Utah
DFCM Project No. 11023430

Subject: **Addendum No. 4**

Pages	Addendum Cover Sheet	1 page
	Revised Project Schedule	1 page
	Engineer's Mechanical Addendum No. 2	1 page
	<u>Engineer's Drawings</u>	<u>3 pages</u>
	Total	6 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

- 4.1 SCHEDULE CHANGES:** See attached Revised Project Schedule. Changes are highlighted..
- 4.2 GENERAL ITEMS:** See attached Engineer's Mechanical Addendum No. 2 dated December 1, 2011 and revised drawings.



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

**PROJECT SCHEDULE – REVISED
PER ADDENDUM NO. 4 DATED DECEMBER 9, 2011**

PROJECT NAME:		VARIOUS ENERGY UPGRADES - WEBER VALLEY DETENTION CENTER DIVISION OF JUVENILE JUSTICE SERVICES - ROY, UTAH		
DFCM PROJECT NO.		11023430		
Event	Day	Date	Time	Place
Bidding Documents Available	Wednesday	November 9, 2011	2:00 PM	DFCM web site *
Mandatory Pre-bid Site Meeting	Tuesday	November 15, 2011	10:00 AM	Weber Valley Detention Ctr 5470 South 2700 West Roy, UT
Last Day to Submit Questions via email only	Tuesday	December 13, 2011	3:00 PM	Bianca Shama – DFCM E-mail bshama@utah.gov Fax 801-538-3267
Addendum Deadline (exception for bid delays)	Thursday	December 15, 2011	3:00 PM	DFCM web site *
Prime Contractors Turn In Bid and Bid Bond	Monday	December 19, 2011	1:00 PM	DFCM 4110 State Office Bldg SLC, UT
Sub-contractor List Due	Tuesday	December 20, 2011	1:00 PM	DFCM 4110 State Office Bldg SLC, UT Fax 801-538-3677
Substantial Completion Date	Thursday	March 1, 2012		

* NOTE: DFCM's web site address is <http://dfcm.utah.gov>



MECHANICAL ADDENDUM # 2

Date: December 1, 2011

Project: Weber Valley Youth Detention Facility

Roy, Utah

Chiller Replacement & Stand-alone HVAC Unit

MECHANICAL

1. **Revised Scope of Work:** The Scope of Work on drawing M001 shall be revised as follows.
 - a. ECM-1 Air Handling Unit 1 & 2 Air Side Economizers is **NOT** part of this project. Disregard any reference on the drawing to Air Handling Unit 1 & 2 (AHU-1 & AHU-2).
 - b. ECM-2 Air Handling Unit 3 Air Side Economizer is **NOT** part of this project. Disregard any reference on the drawings to Air Handling Unit 3 (AHU-3)
 - c. ECM-3 New Heating & Air Conditioning Unit for Control Room **IS** part of this project.
 - i. Delete ceiling diffuser and ceiling grill in existing control room
 - ii. Remove existing thermostat from control room and relocate to hearing office 189.
 - iii. Cap existing supply air and return air ductwork serving control room
 - iv. Provide new split-system heating and air conditioning unit for control room.
 - d. ECM-4 Revised sequence of operation for hot water & chilled water pumps is **NOT** part of this project. Disregard any reference to revising the controls on this project.
 - e. ECM-5 Upgrade Lighting is NOT part of this project. Disregard any reference on the drawings to any lighting upgrade.
 - f. ECM-6 Upgrade Lighting Control is NOT part of this project. Disregard any reference on the drawings to lighting controls.
 - g. ECM-7 Revised Sequence of Control for Exhasut Fan, EF-5, is NOT part of this project. Disregard any reference on the drawings to revising the sequence of controls for EF-5.
 - h. ECM-8 Replace Refrigerator and Freezer is NOT part of this project. Disregard any reference on the drawings to replacing the refrigerator and freezer
 - i. ECM-9 Replace Boiler is NOT part of this project. Disregard any reference on the drawings to replace the boiler, hot water heating piping or replacing the hot water heating circulating pump motors.
 - j. ECM-10 Replace existing chiller IS part of this project
 - i. Remove existing chiller.
 - ii. Remove existing exterior chilled water piping
 - iii. Install new chiller.
 - iv. Install new chilled water buffer tank.
 - v. Provide new chilled water piping between chiller, buffer tank and existing chiller
 - k. ECM-11 Install Low Flow Devices on Plumbing Fixtures is **NOT** part of this project
2. Contractor is responsible for removing and disposing of the existing chiller and associated existing chilled water piping indicated on the drawings.
3. See new Pipe Material Schedule on drawing for acceptable pipe material.
4. See new Pipe Insulation Schedule on drawing for acceptable pipe insulation
5. All exterior chilled water piping shall have an aluminum jacket.
6. The existing stand-alone air conditioning unit in Control Room 186 has no ductwork.
7. Chiller shall be provided with a disconnect switch furnished with the chiller.

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SPLIT SYSTEM DUCTLESS AIR CONDITIONING UNIT

INDOOR UNIT

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	HIGH SPEED AIRFLOW (CFM)	COOLING CAPACITY (1)		HEATING CAPACITY (2)		ELECTRICAL			SOUND LEVEL (dB(A))	WEIGHT (LBS)	COMMENTS	
					(BTU/H)	SEER	(BTU/H)	HSPF	MCA	VOLTS	PHASE				CYCLE
AC-1	WALL MOUNTED	mitsubishi	PKA-A30KA4	775	30,000	15.5	23,000	8.9	1	208-230	1	60	45	48	(3)(4)(5)(6)(7)

OUTDOOR UNIT

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	AIRFLOW (CFM)	COOLING CAPACITY (1)		HEATING CAPACITY (2)		ELECTRICAL			SOUND LEVEL (dB(A))	WEIGHT (LBS)	COMMENTS	
					(BTU/H)	SEER	(BTU/H)	HSPF	MCA	VOLTS	PHASE				CYCLE
AC-1	OUTDOOR - HORIZONTAL AIR FLOW	mitsubishi	PUZ-A30NH44	1,940	30,000	15.5	32,000	8.9	25.0	208/230	1	60	50	165	

ACCEPTABLE MANUFACTURERS:
mitsubishi
SANYO
Carrier

NOTES:
(1) COOLING CAPACITY RATED AT 80 F DB 67 F WB ENTERING AIR, 95 F DB 75 F WB AMBIENT AIR TEMPERATURE
(2) HEATING CAPACITY RATED AT 60 F DB 60 F WB ENTERING AIR, 17 F DB AMBIENT AIR TEMPERATURE
(3) R-410A REFRIGERANT
(4) REFRIGERANT LINE SET BY MANUFACTURER (5/8" O.D. RS, 3/8" O.D. RL)
(5) WIRED REMOTE CONTROLLER
(6) THERMOSTATIC EXPANSION VALVE
(7) INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING
(8) PUMP KIT. RUN CONDENSATE DRAIN LINE ABOVE CEILING TO EXTERIOR OF BUILDING.

CHILLER SCHEDULE (AIR COOLED)

SYMBOL	MANUFACTURER	MODEL NO.	NOMINAL CAPACITY (TONS)	ACTUAL CAPACITY (TONS)	CHILLED WATER					ELECTRICAL					WEIGHT (LBS)	COMMENTS			
					FLUID TYPE	FLOW RATE (GPM)	ENT. WATER (F)	LVG. WATER (F)	WATER PRESSURE DROP (FEET)	FULL LOAD EFFICIENCY (EER)	IPLV (EER)	MAXIMUM SOUND POWER LEVELS (DBa)	MINIMUM CIRCUIT AMPCACITY (AMPS)	MAXIMUM OVERCURRENT PROTECTION (AMPS)			VOLTS	HERTZ	PHASE
CH-1	TRANE	CGAM060	60	56.1	40% PG	134.2	45	55	17	10.2	15.5	91	268.8	300	208	60	3	4,675	

ACCEPTABLE MANUFACTURERS:
Carrier
York
Trane

NOTES:
(1) R-410A REFRIGERANT
(2) 95 F AMBIENT AIR TEMPERATURE
(3) TWO (2) REFRIGERATION CIRCUITS

HOT WATER BOILER SCHEDULE (NIC)

SYMBOL	MANUFACTURER	MODEL	SERVICE	FUEL TYPE	INPUT CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	MINIMUM EFFICIENCY (%)	FLUID			ELECTRICAL				STACK SIZE (INCHES)	OPERATING WEIGHT (LBS)	COMMENTS
								FLUID TYPE	INLET TEMP. (F)	OUTLET TEMP. (F)	AMPS	VOLTS	HERTZ	PHASE			
B-1	LOCHINVAR	PBN1501	H.W. HTG.	NAT. GAS	1,500,000	1,275,000	85	WATER	160	180	6.5	120	60	1	8	1,200	(1) (2)

ACCEPTABLE MANUFACTURERS:
LOCHINVAR
THERMAL SOLUTIONS

NOTES:
(1) CAPACITY AT JOB SITE ELEVATION (4500 FEET)
(2) STAINLESS STEEL (AL294C) BOILER STACK

CIRCULATING PUMP SCHEDULE (NIC)

SYMBOL	MANUFACTURER	MODEL	TYPE	SYSTEM	CIRCULATING FLUID				PUMP EFFICIENCY (%)	NPSH	PUMP RPM	MOTOR (HP)	ELECTRICAL			COMMENTS
					FLUID	FLOW RATE (GPM)	PRESSURE (HEAD)	TEMP.					VOLT	PHASE	HERTZ	
CP-15	BELL & GOSSETT	SERIES "60" - 2 X 5-1/4	PIPE MOUNTED	HOT WATER HEATING	WATER	90.0	20	180	66	6.0	1750	1	208	3	60	(1)

NOTES:
(1) PREMIUM EFFICIENCY MOTOR

ELECTRIC UNIT HEATER SCHEDULE (NIC)

SYMBOL	MANUFACTURER	MODEL	AIR FLOW DIRECTION	AIR FLOW (CFM)	HEATING CAPACITY		MOTOR		ELECTRICAL				OPERATING WEIGHT (LBS)	OPTIONS & ACCESSORIES
					BTUH	KW	H.P.	RPM	AMPS	VOLTS	HERTZ	PHASE		
EUH-1	QMARK	MUH05-81	HORIZONTAL	350	17,000	5.0	1/100	1600	24.0	208	60	1	27	(1)(2)(3)(4)

ACCEPTABLE MANUFACTURERS:
QMARK
MARLEY
BERKO

OPTIONS & ACCESSORIES:
(1) UNIVERSAL WALL & CEILING BRACKET
(2) 120 V CONTROL TRANSFORMER AND POWER CONTACTOR
(3) INTERNAL THERMOSTAT
(4) DISCONNECT SWITCH

ELECTRICAL EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA					WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION		DISCONNECT			STARTER DATA				NOTES	MARK									
			HP	KW	MCA	FLA	VOLTS		PH	HZ	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY			DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY	
AC-1		AIR CONDITIONING UNIT (INDOOR)			1		208	1	60			E	THERMAL SWITCH	ADJ. TO EQUIP.	Q									NOTE 1	AC-1			
AC-1		AIR CONDITIONING UNIT (OUTDOOR)			25		208	1	60	2 #8, #10 GR		E	40A/2P CB	PANEL	E	30A/2P CB	ADJ. TO EQUIP.	Q								AC-1		
B-1		NIC BOILER					120	1	60	2 #12, #12 GR		E	30A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q							NIC	B-1		
CP-5		NIC CIRCULATING PUMP			1		4.6	208	3	60	3 #12, #12 GR		E	15A/3P CB	PANEL	E	30A/3P CB	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	0	HQA	R-G	2	2	NIC	CP-5
EUH-1		NIC ELECTRIC UNIT HEATER			5		24	208	1	60	2 #10, #10 GR		E	30A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q							NIC	EUH-1	

NOTES: 1. INDOOR UNIT POWERED FROM OUTDOOR UNIT. PROVIDE CONDUIT AND CONDUCTORS BETWEEN INDOOR AND OUTDOOR UNITS PER MANUFACTURERS WRITTEN INSTRUCTIONS.

MECHANICAL PIPE MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL	FITTINGS	JOINTS
CHILLED WATER PIPING	ASTM B88 TYPE 1" COPPER TUBING	ASTM B16.18 CAST COPPER-ALLOY OR ASTM B16.22 WROUGHT COPPER	ASTM B32 LEAD FREE SOLDER
HOT WATER HEATING	ASTM B88 TYPE 1" COPPER TUBING	ASTM B16.18 CAST COPPER-ALLOY OR ASTM B16.22 WROUGHT COPPER	ASTM B32 LEAD FREE SOLDER

NOTES:
(1) PIPE HANGERS FOR COPPER PIPE AND TUBING SHALL BE PLASTIC COATED STEEL TYPE 1 CLEVIS HANGERS

PIPE INSULATION SCHEDULE

SERVICE	PIPE SIZE	PIPE INSULATION MATERIAL
CHILLED WATER	1-1/2 INCHES AND SMALLER	1-INCH PREFORMED FIBERGLASS WITH ALL SERVICE JACKET PREFORMED PVC FITTING COVERS
CHILLED WATER	2-INCHES AND LARGER	1-1/2 INCH PREFORMED FIBERGLASS WITH ALL SERVICE JACKET PREFORMED PVC FITTING COVERS
HOT WATER HEATING	1-1/2 AND SMALLER	1-1/2 INCH PREFORMED FIBERGLASS WITH ALL SERVICE JACKET PREFORMED PVC FITTING COVERS
HOT WATER HEATING	2" AND LARGER	2-INCH PREFORMED FIBERGLASS WITH ALL SERVICE JACKET PREFORMED PVC FITTING COVERS

NOTES:
(1) PIPE INSULATION SHALL HAVE A THERMAL CONDUCTIVITY (K-VALUE) AT 100 F SHALL BE 0.29 BTU x IN.H x SQ. FT. x DEG F OR LESS.
(2) PIPE INSULATION EXTERIOR TO BUILDING SHALL HAVE A FIELD-APPLIED 0.02-INCH THICK ASTM B 209 CORRUGATED ALUMINUM JACKET.
(3) METAL JACKETS SHALL HAVE 2-INCH OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS.
(4) OVERLAPED SEAMS SHALL BE INSTALLED TO TOWARD EXTERIOR.
(5) SEAMS AND JOINTS OF ALUMINUM JACKETS ON PIPING EXTERIOR TO BUILDING SHALL BE SEALED WITH APPROVED SEALANT.

EQUIPMENT SCHEDULE KEY

E	DIVISION 16
O	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

CHILLED WATER BUFFER TANK

SYMBOL	MANUFACTURER	MODEL	LOCATION	SYSTEM	TANK VOLUME (GALLONS)	MAXIMUM TANK DIA. (INCHES)	TANK HEIGHT (INCHES)	OPERATING WEIGHT (LBS)	COMMENTS
BT-1	LOCHINVAR	CVU200	MECH RM	CHILLED WATER	200	30	84	2,200	(1) (2) (3) (4) (5) (6)

NOTES:
(1) ASME CONSTRUCTION
(2) R-12 TANK INSULATION WITH UV RESISTANT EXTERIOR
(3) ALUMINUM JACKET
(4) LOWER TANK CONNECTION WITH INTERNAL BAFFLE
(5) 4" X 6" HAND HOLE
(6) AUTOMATIC AIR VENT
(7) TEMPERATURE AND PRESSURE GAUGE

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SHEET KEYNOTES

1. EXISTING AIR HANDLING UNIT (AHU-1).
2. REVISE AIR HANDLING UNIT SEQUENCE TO PROVIDE AIR SIDE ECONOMIZER CONTROL. REVISE AIR HANDLING UNIT SEQUENCE OF CONTROLS TO CONSTANTLY RESET COLD DECK AS NECESSARY TO MEET COOLING LOAD OF WARMEST ZONE. ECONOMIZER SHALL BE RESET TO THIS SAME VALUE PLUS FAN HEAT (APPROX. 2° F). MAXIMUM ECONOMIZER TEMPERATURE SHALL BE 73° F.
3. EXISTING AIR HANDLING UNIT (AHU-2).
4. EXISTING EXHAUST FAN (EF-5).
5. ACCESS LADDER UP TO MEZZANINE.
6. EXISTING CHILLED WATER AND HOT WATER HEATING TO REMAIN.
7. RUN REFRIGERANT PIPING ABOVE CEILING.
8. 4" HIGH REINFORCED CONCRETE PAD.
9. SUPPORT CONDENSING UNIT ON ENCLOSED SPRING VIBRATION ISOLATORS.
10. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. PROVIDE DISCONNECT ON INDOOR UNIT.
11. PROVIDE NEW 40A/2P CIRCUIT BREAKER IN PANEL A2 IN BASEMENT. AT CONTRACTOR'S OPTION, CIRCUIT MAY BE RUN TO ANY OTHER 120/208V PANEL IF LOAD CALCULATION SHOWS SUFFICIENT CAPACITY IS AVAILABLE.
12. PROVIDE NEMA 3R DISCONNECT SWITCH AND FUSES PER EQUIPMENT NAMEPLATE ON OUTDOOR UNIT.
13. EXISTING ELECTRICAL PANEL.



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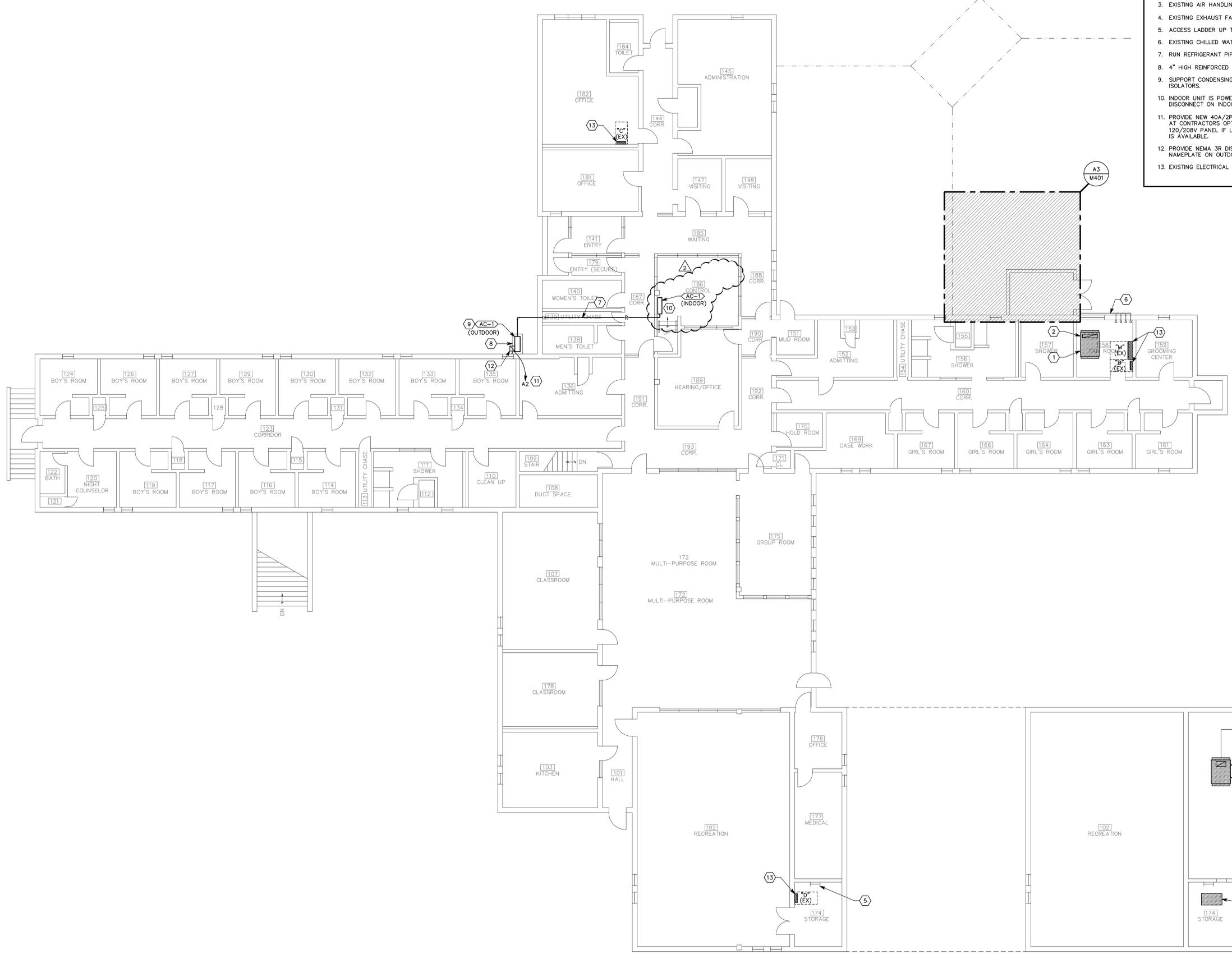
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(A2) MAIN FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



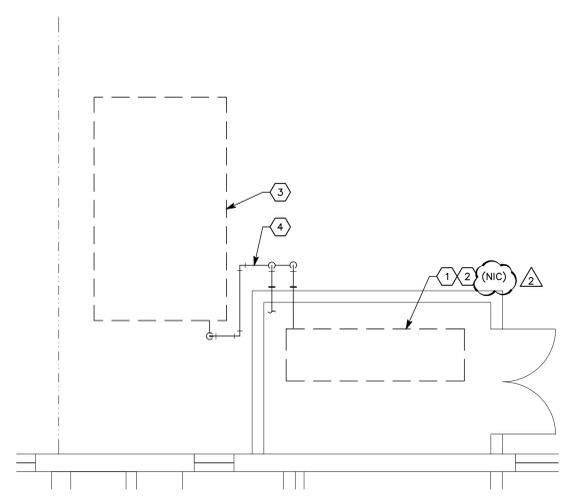
(A5) MEZZANINE MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



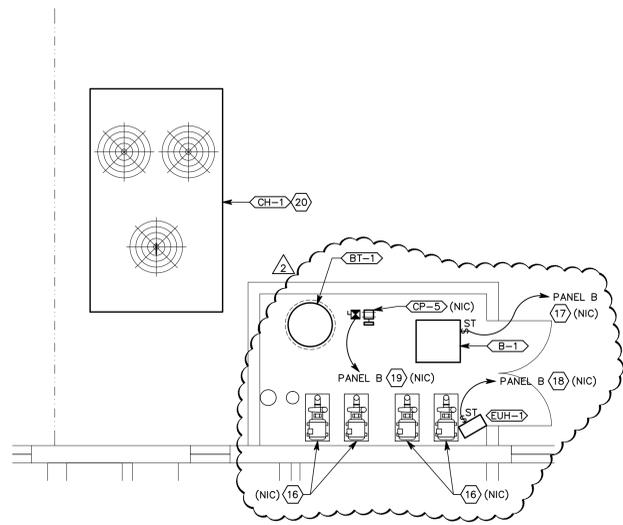
MAIN FLOOR
MECHANICAL PLAN
M101

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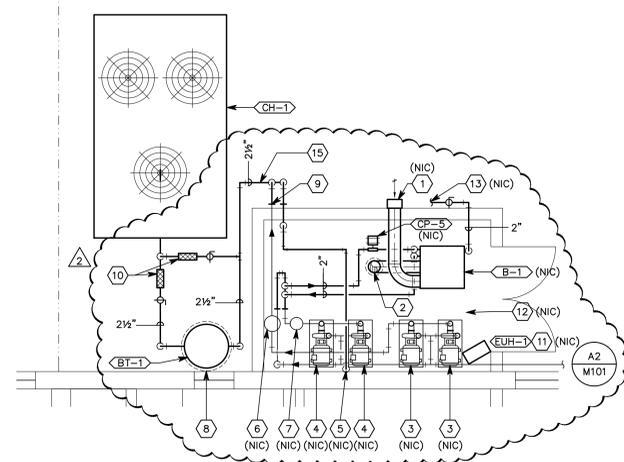
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D
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D3 ENLARGED EQUIPMENT ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



A1 ENLARGED EQUIPMENT ROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



A3 ENLARGED EQUIPMENT ROOM MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



DEMOLITION KEYNOTES

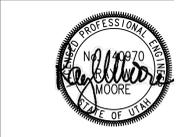
1. REMOVE EXISTING CAST-IRON BOILER AND ASSOCIATED FLUES.
2. REMOVE EXISTING HOT WATER HEATING PIPING AT BOILER.
3. REMOVE EXISTING AIR COOLED CHILLER.
4. REMOVE EXISTING CHILLED WATER ASSOCIATED WITH CHILLER.

SHEET KEYNOTES

1. BOILER AIR INTAKE. FURNISHED BY BOILER MANUFACTURER.
2. 8" DIA. STAINLESS STEEL (AL294C) FLUE PIPE THROUGH ROOF WITH UL LISTED FLUE CAP.
3. EXISTING CHILLED WATER PUMP TO REMAIN. REPLACE EXISTING 1 HP MOTOR WITH NEW PREMIUM EFFICIENT MOTOR.
4. EXISTING HOT WATER HEATING PUMP TO REMAIN. REPLACE EXISTING 3/4 HP MOTOR WITH NEW PREMIUM EFFICIENT MOTOR.
5. MAKE NEW CONNECTION TO EXISTING CHILLED WATER PIPING. FIELD VERIFY EXACT LOCATION ON JOB SITE.
6. EXISTING CHILLED WATER AIR SEPARATOR TO REMAIN.
7. EXISTING HOT WATER HEATING AIR SEPARATOR TO REMAIN.
8. INSULATE NEW CHILLED WATER BUFFER TANK WITH 1 1/2" FIBERGLASS INSULATION. PROVIDE ALUMINUM WEATHER PROOF JACKET.
9. MAKE NEW CONNECTION TO EXISTING CHILLED WATER RETURN PIPING. FIELD VERIFY EXACT LOCATION ON JOB SITE.
10. PIPE FLEXIBLE CONNECTION.
11. SUPPORT UNIT HIGHER FROM OVERHEAD STRUCTURE WITH HANGER ROD AND VIBRATION ISOLATOR.
12. REPAIR ALL DAMAGED PIPE INSULATION ON EXISTING PIPING.
13. MAKE NEW CONNECTION TO EXISTING NATURAL GAS PIPING. FIELD VERIFY EXACT LOCATION.
14. SUPPORT PIPING WITH UNISTRUT SUPPORTS SECURED TO CONCRETE PAD.
15. SUPPORT FROM GRADE.
16. DISCONNECT EXISTING PUMPS AND RE-CONNECT NEW PREMIUM EFFICIENCY MOTOR.
17. PROVIDE NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED.
18. PROVIDE NEW 30A/2P CIRCUIT BREAKER IN PANEL INDICATED.
19. PROVIDE NEW 20A/3P CIRCUIT BREAKER IN PANEL INDICATED.
20. DISCONNECT EXISTING CHILLER AND RECONNECT NEW CHILLER. EXTEND EXISTING CIRCUITING TO NEW TERMINATION LOCATION AS REQUIRED.

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