

WEBER STATE UNIVERSITY HEAT EXCHANGER REPLACEMENT IN: EDUCATION, SCIENCE LAB, SOCIAL SCIENCE, LIBRARY SOUTH, ALLIED HEALTH SOUTH AND NORTH, ADMINISTRATION, STUDENT SERVICES, AND STADIUM BUILDINGS.

3848 HARRISON BLVD.
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SALT LAKE CITY, UTAH 84114

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COLVIN ENGINEERING
ASSOCIATES, INC.**

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SALT LAKE CITY, UTAH 84103
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ELECTRICAL CONSULTING ENGINEERS**

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100% CONSTRUCTION DOCUMENT SET
DECEMBER 9, 2008

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SHEET NUMBER	SHEET TITLE	REVISIONS			
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M001	LEGEND AND ABBREVIATIONS				
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ABBREVIATIONS

#	ROUND OR DIAMETER	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR	MAX	MAXIMUM
AF	AIRFOIL	MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MIN	MINIMUM
BI	BACKWARD INCLINED	NC	NOISE CRITERIA OR NORMALLY CLOSED
BOD	BOTTOM OF DUCT	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	NO	NUMBER
BTU/H	BRITISH THERMAL UNITS PER HOUR	NOM	NOMINAL
CAP	CAPACITY	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CV	CONSTANT VOLUME	ODB	OPPOSED BLADE DAMPER
DB	DRY BULB	OD	OVERFLOW DRAIN
DIA	DIAMETER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DN	DOWN	OFOI	OWNER FURNISHED, OWNER INSTALLED
DSN	DOWN SPOUT NOZZLE	PD	PRESSURE DROP
DW	DISHWASHER	POC	POINT OF CONNECTION
(C)	EXISTING	PRV	PRESSURE REDUCING VALVE
EA	EXHAUST AIR	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
EFF	EFFICIENCY	RA	RETURN AIR
ELEV	ELEVATION	RAD	RADIUS
ENCL	ENCLOSURE	RD	ROOF DRAIN
ESP	EXTERNAL STATIC PRESSURE	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
ET	EXPANSION TANK	SA	SUPPLY AIR
EW	ELECTRIC WATER COOLER	SEN	SENSIBLE
EWT	ENTERING WATER TEMPERATURE	SIM	SIMILAR
FCO	FLOOR CLEANOUT	SL	SEA LEVEL
FD	FLOOR DRAIN	SP	STATIC PRESSURE
FO	FLAT OVAL	SQ FT	SQUARE FEET
FPM	FEET PER MINUTE	SS	SERVICE SINK OR STAINLESS STEEL
FS	FLOOR SINK	TOD	TOP OF DUCT
FT	FEET	TSP	TOTAL STATIC PRESSURE
FV	FACE VELOCITY	U	URNAL
GA	GAUGE	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VD	VOLUME DAMPER
GD	GARAGE DRAIN	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VOL	VOLUME
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HR	HOUR	W/	WITH
HT	HEIGHT	W/O	WITHOUT
IN	INCH	WB	WET BULB
INWC	INCHES OF WATER COLUMN	WC	WATER CLOSET
INWG	INCHES OF WATER GAUGE	MVD	MANUAL VOLUME DAMPER
IPG	INHIBITED PROPYLENE GLYCOL	WCD	WALL CLEANOUT
L	LAVATORY OR LOUVER	WPD	WATER PRESSURE DROP
LAT	LEAVING AIR TEMPERATURE	WT	WEIGHT
LBS	POUNDS		

ALTITUDE: 4,500 FT

SITE ATMOSPHERIC PRESSURE: 12.45 P.S.I.

MECHANICAL LEGEND

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS

GATE VALVE		DEIONIZED WATER	DI
OS & Y PATTERN GATE VALVE		DEIONIZED WATER RETURN	DIR
BALL VALVE		HEAT TRACING	
BUTTERFLY VALVE		CHILLED WATER SUPPLY	CHS
MOTORIZED VALVE OPERATOR		CHILLED WATER RETURN	CHR
GAS COCK		CONDENSER WATER SUPPLY	CS
PLUG VALVE		CONDENSER WATER RETURN	CR
CHECK VALVE (SWING OR LIFT AS REQ'D)		HEATING WATER SUPPLY	HWS
SOLENOID VALVE		HEATING WATER RETURN	HWR
AUTOMATIC CONTROL VALVE (2-WAY)		RADIANT FLOOR SUPPLY	RFS
AUTOMATIC CONTROL VALVE (3-WAY)		RADIANT FLOOR RETURN	RFR
PRESSURE REDUCING VALVE		STEAM	S
P & T RELIEF VALVE		STEAM CONDENSATE RETURN	SCR
AIR VENT (AUTOMATIC)		WATER TREATMENT	WT
CURB COCK		FUEL OIL SUPPLY	FOS
THERMAL EXPANSION VALVE		FUEL OIL RETURN	FOR
STRAINER		REFRIGERANT LIQUID	RL
CALIBRATED BALANCE VALVE		REFRIGERANT SUCTION	RS
VENTURI FLOW METER		HOT GAS	HG
REDUCER		HOT GAS BYPASS	HGBP
PET COCK OR GAUGE COCK		VACUUM	V
PRESSURE GAUGE W/GAUGE COCK		MEDICAL AIR	MA
THERMOMETER		OXYGEN	O2
TEMPERATURE & PRESSURE TEST PLUG		NITROUS OXIDE	N2O
IN-LINE PUMP		NITROGEN	N
FLOW SWITCH		HYDROGEN	H
AQUASTAT		HELIUM	HE
TEMPERATURE SENSING WELL		CARBON DIOXIDE	CO2
HOSE BIBB OR SILCOCK		ARGON	AR
YARD HYDRANT		DUCT SIZE (N), FIRST FIGURE IS SIDE SHOWN	
FLOOR DRAIN		BURIED OR UNDERFLOOR DUCT	
FLOOR SINK		DUCT W/ ACOUSTICAL LINING	
MANHOLE		FLEXIBLE DUCT (HELICAL)	
WALL CLEANOUT		SPIN-IN FITTING W/ MVD	
FLOOR OR GRADE CLEANOUT		FLEXIBLE DUCT CONNECTION	
GRADE CLEANOUT W/ CONCRETE PAD		SUPPLY SLOT DIFFUSER	
VENT THROUGH ROOF		SUPPLY DIFFUSER	
POST TYPE FDC CONNECTION		RETURN GRILLE	
WALL TYPE FDC CONNECTION		RADIAL SUPPLY DIFFUSERS	
FIRE HOSE CABINET		RETURN AIR DUCT SECTION	
FIRE DEPT. HORN & LIGHT		RETURN AIR DUCT UP	
EXPANSION JOINT		RETURN AIR DUCT DOWN	
FLEXIBLE PIPE CONNECTION		SUPPLY AIR DUCT SECTION	
REDUCED PRESSURE BACKFLOW PREVENTER		SUPPLY AIR DUCT UP	
DIRECTION OF FLOW		SUPPLY AIR DUCT DOWN	
ELBOW DOWN		EXHAUST AIR DUCT SECTION	
ELBOW UP		EXHAUST AIR DUCT UP	
PIPE CAP		EXHAUST AIR DUCT DOWN	
TEE DOWN		ACCESS PANEL	
UNION		MANUAL VOLUME DAMPER	
DOMESTIC COLD WATER		GRAVITY BACKDRAFT DAMPER	
DOMESTIC HOT WATER		MOTORIZED DAMPER	
HOT WATER CIRC.		AIR FLOW STATION	
TEMPERED WATER		FIRE DAMPER	
SANITARY (PLBG) VENT		SMOKE DAMPER	
SANITARY SEWER ABOVE GRADE		COMBINATION FIRE/SMOKE DAMPER	
SANITARY SEWER BELOW GRADE		DUCT TRANSITION	
GREASE WASTE ABOVE GRADE		ELBOW W/ TURNING VANES	
GREASE WASTE BELOW GRADE		TEE W/ 45' ENTRY	
DRAIN		WYE W/ 45' ENTRY	
ROOF DRAIN		THERMOSTAT OR TEMP SENSOR	
OVERFLOW DRAIN		HUMIDISTAT OR HUMIDITY SENSOR	
STORM DRAIN ABOVE GRADE		CARBON MONOXIDE SENSOR	
STORM DRAIN BELOW GRADE		NITROGEN DIOXIDE SENSOR	
FIRE SERVICE		POINT OF REMOVAL FROM EXISTING	
NATURAL GAS		POINT OF CONNECTION TO EXISTING	
PROPANE		DETAIL TAG	
COMPRESSED AIR		KEYED NOTE	
INDUSTRIAL WATER (NON-POTABLE)		SECTION CUT LINE	

NO.	DATE	DESC.

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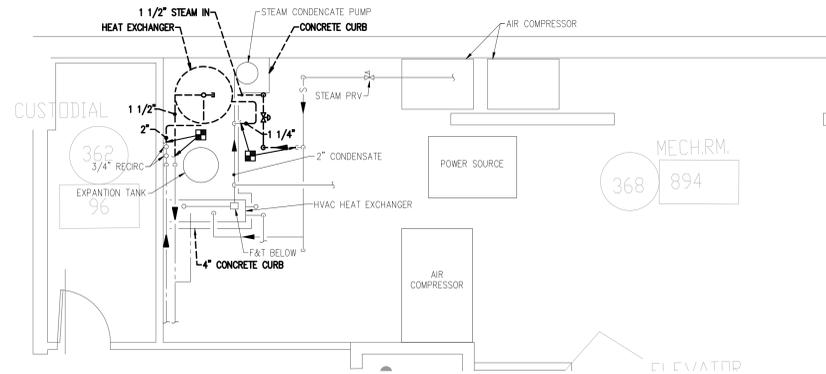
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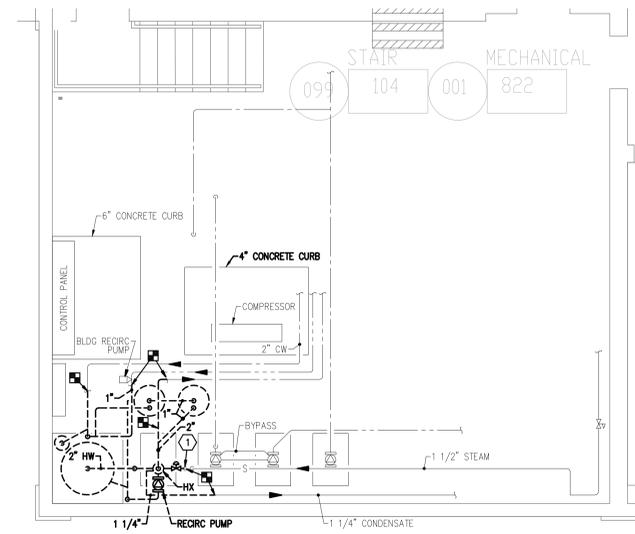
SHEET TITLE
 LEGEND AND ABBREVIATIONS

SHEET NO.
 M001

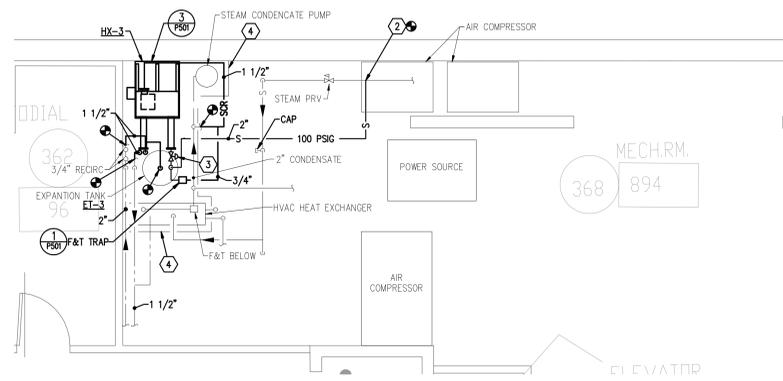
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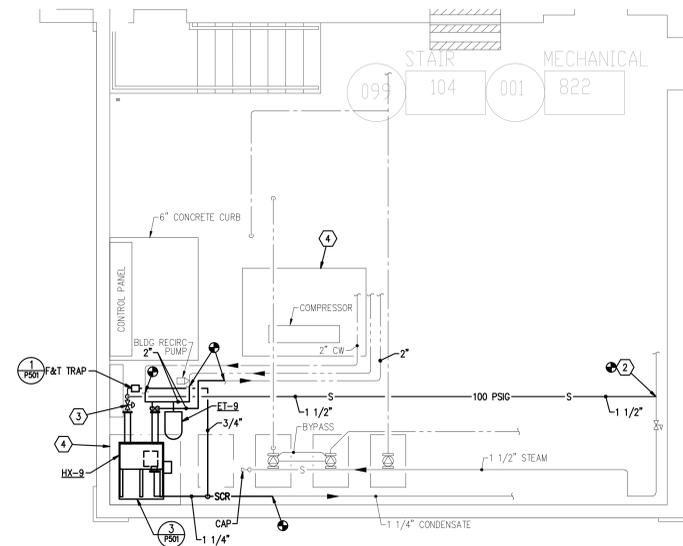
1 ALLIED HEALTH SOUTH BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



3 STUDENT SERVICES BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 ALLIED HEALTH SOUTH BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



4 STUDENT SERVICES BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES

- 1 DEMOLISH STEAM PIPE BACK TO LAST DEVICE AND CAP.
- 2 CONNECT NEW STEAM PIPE TO EXISTING 100 PSI STEAM PIPE AFTER EXISTING SHUT OFF VALVE.
- 3 CONTROL VALVE INCLUDED WITH HEAT EXCHANGER PACKAGE.
- 4 4" CONCRETE HOUSEKEEPING PAD. IF EXISTING PAD IS REUSED, COORDINATE NEW HEAT EXCHANGER SIZE AND MODIFY PAD AS REQUIRED.

GENERAL NOTES

- A REMOVE EQUIPMENT AND PIPING SHOWN DARK AND DASHED. ITEMS SHOWN LIGHT AND SOLID TO REMAIN.
- B NEW DOMESTIC HOT AND COLD PIPE TO HEAT EXCHANGER TO MATCH EXISTING HOT AND COLD PIPE.

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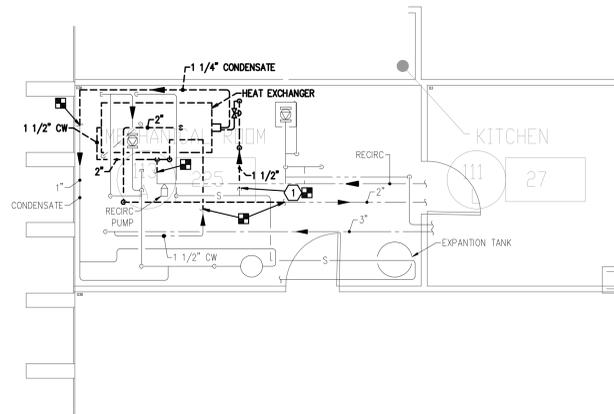
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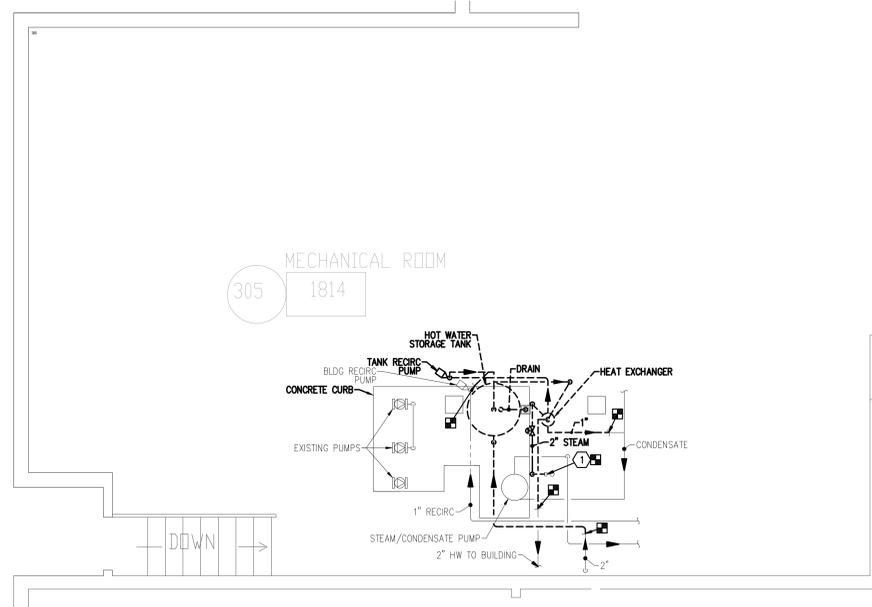
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SHEET TITLE
ALLIED HEALTH SOUTH
& STUDENT SRVCS
BLDGS DEMO &
REMODEL PLANS

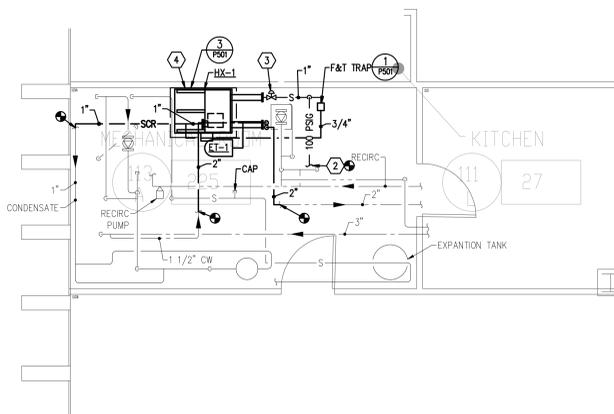
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P103



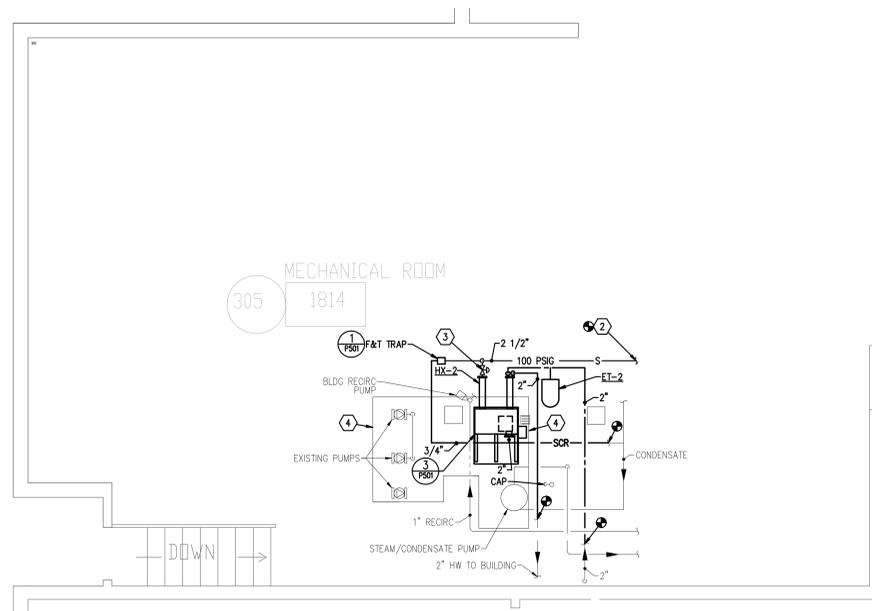
1 ADMINISTRATION BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



3 ALLIED HEALTH NORTH BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 ADMINISTRATION BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



4 ALLIED HEALTH NORTH BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES

- 1 DEMOLISH STEAM PIPE BACK TO LAST DEVICE AND CAP.
- 2 CONNECT NEW STEAM PIPE TO EXISTING 100 PSI STEAM PIPE AFTER EXISTING SHUT OFF VALVE.
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GENERAL NOTES

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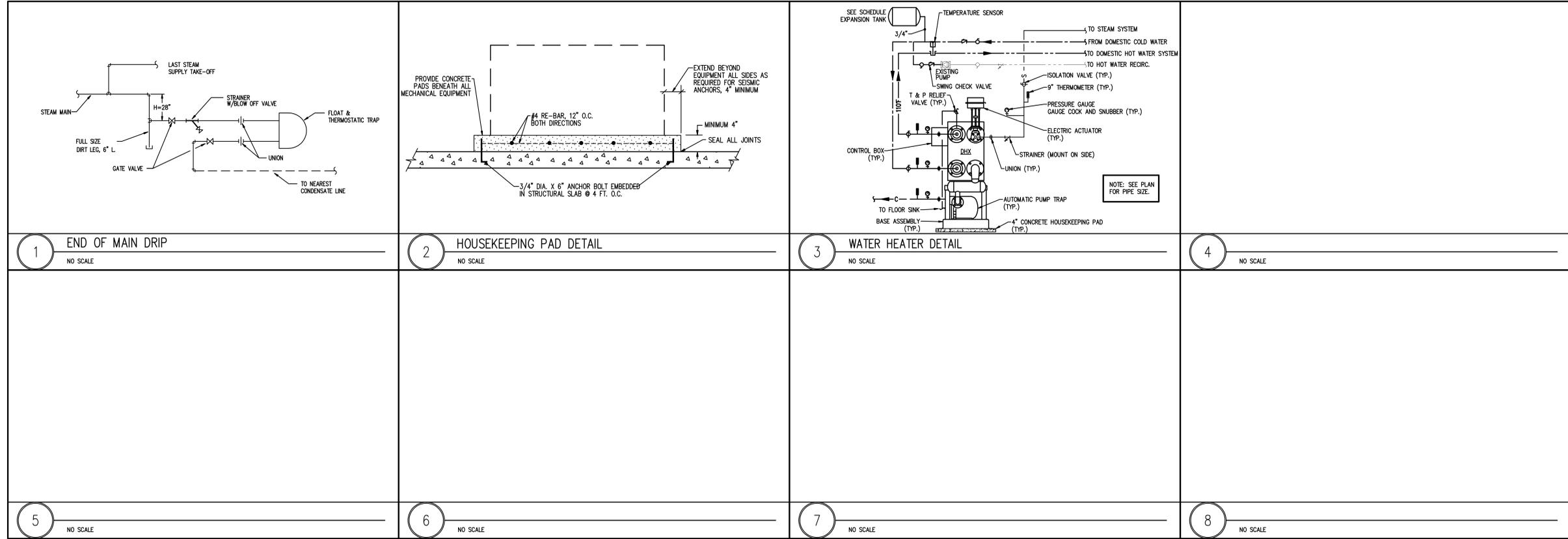
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SHEET TITLE
ADMINISTRATION BLDG &
ALLIED HEALTH NORTH
BLDG DEMO & REMODEL
PLANS

SHEET NO.
P104

ADMINISTRATION BUILDING & ALLIED HEALTH NORTH BUILDING ALTERNATE #1

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SHEET TITLE
DETAILS

SHEET NO.
P501

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STEAM DOMESTIC HEAT EXCHANGER SCHEDULE (HX) ①②																		
PLAN CODE	BUILDING SERVED	STEAM SIDE				WATER SIDE				ELECTRICAL ③		HX TYPE	MAX. DIMENSIONS			WEIGHT (LBS)	MANUFACTURER & MODEL	REMARKS
		LBS/HR	BUILDING STEAM PRESS. (PSI)	STEAM CONN. (IN.)	COND. CONN. (IN.)	EWT (°F)	LWT (°F)	GPM	P.D. (FT.)	AMPS	VOLTAGE/PHASE		WIDTH (IN)	LENGTH (IN)	HEIGHT (IN)			
HX-1	ADMINISTRATION BUILDING	360	100	2	2	40	110	10	4.1	20	120/1	PLATE & FRAME	12.125	15.7	34.0	330	BELL & GOSSETT P14DW	ALTERNATE
HX-2	ALLIED HEALTH NORTH BUILDING	1872	100	2	2	40	110	50	6.3	20	120/1	PLATE & FRAME	12.125	15.7	34.0	360	BELL & GOSSETT P14DW	ALTERNATE
HX-3	ALLIED HEALTH SOUTH BUILDING	1116	100	2	2	40	110	30	5.8	20	120/1	PLATE & FRAME	12.125	15.7	34.0	350	BELL & GOSSETT P14DW	-
HX-4	ATHLETIC DEPARTMENT BUILDING	3744	100	4	4	40	110	100	6.1	20	120/1	PLATE & FRAME	20.5	23.6	46.625	1000	BELL & GOSSETT P21DW	-
HX-5	EDUCATION BUILDING	1116	100	2	2	40	110	30	5.8	20	120/1	PLATE & FRAME	12.125	15.7	34.0	350	BELL & GOSSETT P14DW	-
HX-6	LIBRARY SOUTH BUILDING	756	100	2	2	40	110	20	4.1	20	120/1	PLATE & FRAME	12.125	15.7	34.0	350	BELL & GOSSETT P14DW	-
HX-7	SCIENCE LAB BUILDING	4284	100	4	4	40	110	115	6.7	20	120/1	PLATE & FRAME	20.5	23.6	46.625	1025	BELL & GOSSETT P21DW	-
HX-8	SOCIAL SCIENCE BUILDING	936	100	2	2	40	110	25	4.1	20	120/1	PLATE & FRAME	12.125	15.7	34.0	350	BELL & GOSSETT P14DW	-
HX-9	STUDENT SERVICES BUILDING	936	100	2	2	40	110	25	4.1	20	120/1	PLATE & FRAME	12.125	15.7	34.0	350	BELL & GOSSETT P14DW	-

① CIRCULATION PUMP INCLUDED ON SKID. ② PACKAGE TO INCLUDE PUMPED TRAP, STEAM CONTROL VALVE, PRESSURE REDUCING VALVE, HIGH PRESSURE STEAM TRAP, CONTROLS AND INTERCONNECTING PIPING, 316 STAINLESS STEEL PLATE DOUBLE WALL WITH EPDM SEALS. ③ SINGLE POINT ELECTRICAL CONNECTION.

EXPANSION TANK SCHEDULE										
PLAN CODE	SYSTEM SERVED	WATER TEMP. (°F)	TANK VOL. (GAL)	ACCEPTANCE VOL. (GAL)	PRE-CHARGE (PSI)	MAX. DIMENSIONS			MANUFACTURER & MODEL NO.	REMARKS
						DIA. (IN.)	H (IN.)	OPERATING WT. (LBS)		
ET-1	DOMESTIC HOT WATER	110	14	11.3	12	15-3/8	27-3/4	125	AMTROL SX-30V	-
ET-2	DOMESTIC HOT WATER	110	44	34	12	22	36	375	AMTROL SX-90V	-
ET-3	← EXISTING →									REUSE EXISTING TANK
ET-4	DOMESTIC HOT WATER	110	62	34	12	22	46-3/4	400	AMTROL SX-110V	-
ET-5	DOMESTIC HOT WATER	110	44	34	12	22	36	375	AMTROL SX-90V	-
ET-6	DOMESTIC HOT WATER	110	44	34	12	22	36	375	AMTROL SX-90V	-
ET-7	DOMESTIC HOT WATER	110	86	46	12	26	47-1/4	525	AMTROL SX-160V	-
ET-8	DOMESTIC HOT WATER	110	14	11.3	12	15-3/8	27-3/4	125	AMTROL SX-30V	-
ET-9	DOMESTIC HOT WATER	110	14	11.3	12	15-3/8	27-3/4	125	AMTROL SX-30V	-

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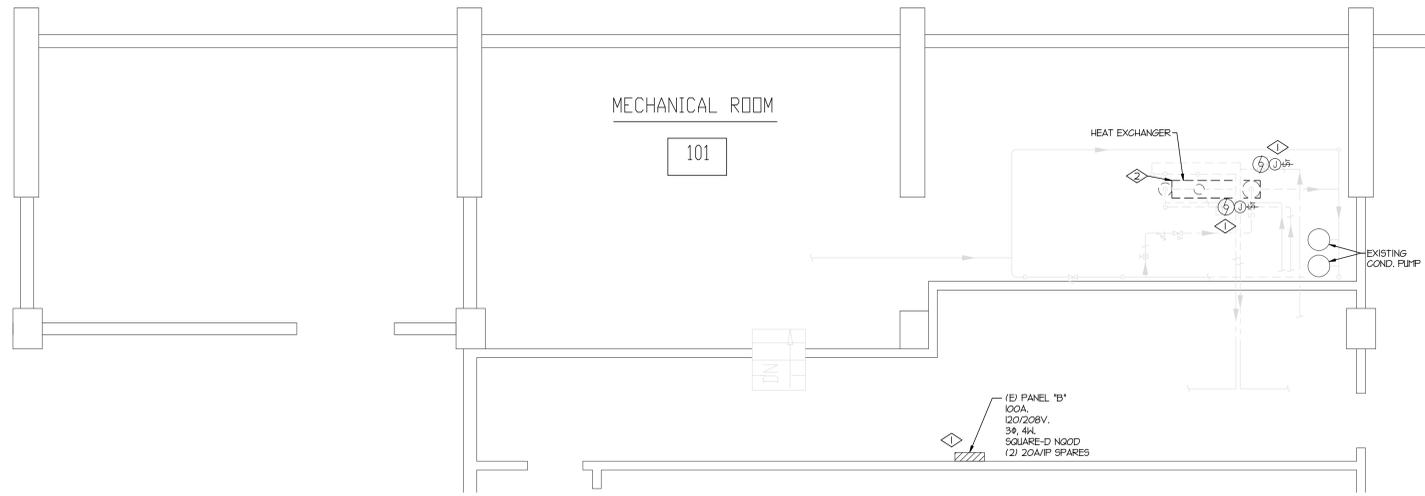
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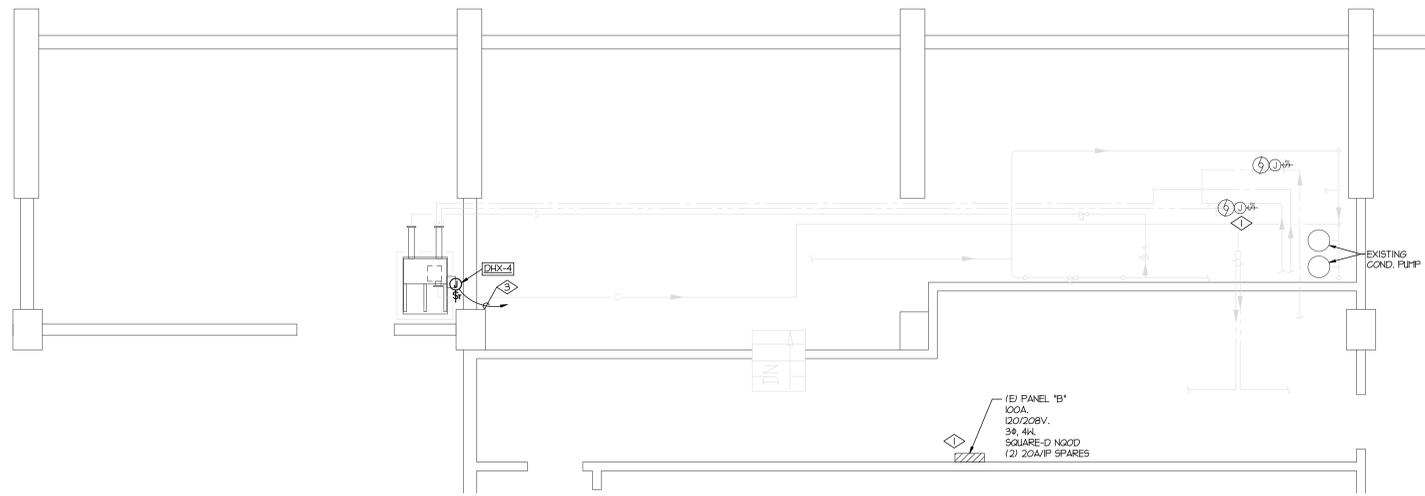
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SCHEDULES

SHEET NO.
P601

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1 STADIUM BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"
3 0 2 4 6 8



2 STADIUM BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"
3 0 2 4 6 8

REFERENCE NOTES:

- ◇ EXISTING DEVICES, PANELBOARDS, ETC. SHALL REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
- ◇ EXISTING MECHANICAL UNIT SHALL BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT POWER AND REMOVE CONDUCTORS, THERMAL SWITCH, J-BOXES, ETC. BACK TO ORIGINATION POINTS. UTILIZE EXISTING CONDUIT AND J-BOXES AS POSSIBLE FOR NEW INSTALLATIONS. REMOVE ANY ABANDONED CONDUIT.
- ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL 'B'. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

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SHEET TITLE
ADMINISTRATION BLDG. & ALLIED HEALTH NORTH BLDG. DEMO & REMODEL PLANS - ELECTRICAL

SHEET NO.
E105

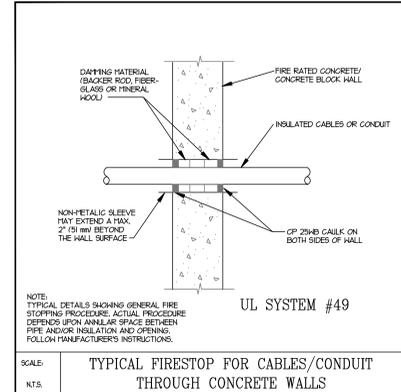
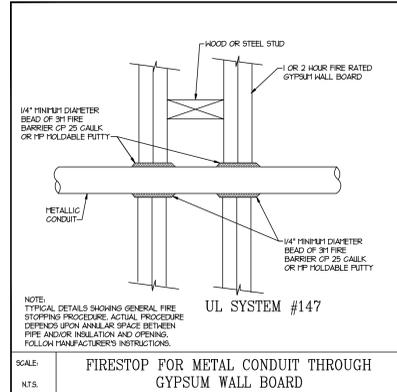


MECHANICAL EQUIPMENT SCHEDULE										
NAME OF MECHANICAL EQUIPMENT	HEAT EXCHANGER									
EQUIPMENT NO.	DHX-1	DHX-2	DHX-3	DHX-4	DHX-5	DHX-6	DHX-7	DHX-8	DHX-9	
RATINGS/WATTS										
VOLTAGE	120	120	120	120	120	120	120	120	120	
PHASE	1	1	1	1	1	1	1	1	1	
AMPS	20	20	20	20	20	20	20	20	20	
WIRE SIZE	2#12	2#12	2#12	2#12	2#12	2#12	2#12	2#12	2#12	
GROUND WIRE	#12	#12	#12	#12	#12	#12	#12	#12	#12	
CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
FUSE DISC. SH.	--	--	--	--	--	--	--	--	--	
TYPE RFI FUSES	--	--	--	--	--	--	--	--	--	
NON-FUSE SH.	--	--	--	--	--	--	--	--	--	
CAPACITOR (KVAR)	--	--	--	--	--	--	--	--	--	
NOTES	2.6	2.6	2	2	2	2	2	2	2	

- NOTES:
1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
 2. PROVIDE THERMAL OVERLOAD SWITCH.
 3. PROVIDE COOPERATION STARTER 4 DISCONNECT (HOM) W/ (2) N.O. & N.C. CONTACTS.
 4. UNIT FURNISHED WITH VFD. PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK (FACTORY INSTALLED).
 5. TIE-INTO FIRE ALARM SYSTEM FOR AUTOMATIC OPERATION.
 6. ALTERNATE #1.

POWER SYSTEMS SYMBOL LIST	
SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	CONDUITS CONCEALED IN CEILINGS AND WALLS
	ARROWS INDICATE HOME RUNS
	NON FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	COMBINATION STARTER/FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	MOTOR LOCATION
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION
	MECHANICAL EQUIPMENT CALLOUT
	REFERENCE NOTE CALLOUT

- GENERAL NOTES:
1. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
 2. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
 3. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED TO THE DEVICES WHICH ARE TO REMAIN, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
 4. THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.
 5. THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL MATCH THE COLOR OF THE EXISTING DEVICES AND COVERPLATES.
 6. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL, AND WORKSMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPAIR OR REPLACE ALL DEFECTS DURING THE GUARANTEED PERIOD.
 7. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. WORK SHALL BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
 8. REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
 9. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
 10. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.
 11. MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
 12. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
 13. NOT MORE THAN THREE (3) CIRCUITS SHALL BE INSTALLED IN A CONDUIT. EACH CIRCUIT SHALL CONSIST OF 1 CONDUCTOR FOR EACH PHASE, 1 NEUTRAL, AND 1 GROUND, FOR A TOTAL OF FIVE CONDUCTORS.
 14. THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRAL.
 15. THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 16. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER RUD RINGS.
 17. ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT HOOK ANY CONDUIT FROM THE CEILING.
 18. ALL THE HOMERUNS MUST BE ACCESSIBLE IN THE CEILING FLENUM. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS.
 19. AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
 20. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
 21. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (RIFLEX AND 1/2" CABLE NOT PERMITTED).
 22. SEALED FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6" MAXIMUM).
 23. NO CONDUITS SHALL RUN IN DUCT WORK.
 24. USE NO. 10 THIN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.
 25. PROVIDE UPDATED, TYPED WRITTEN PANEL SCHEDULES FOR NEW AND EXISTING PANELBOARDS SHOWING CIRCUIT CHANGES MADE DURING THIS PROJECT.
 26. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
 27. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE ULL APPROVED AND NEW.
 28. CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
 29. ELECTRICAL CONTRACTOR SHALL HAVE PRE-CONSTRUCTION MEETINGS WITH ELECTRICAL SHOP SUPERVISOR.



IF PANEL BOARD IS FEED FROM A TRANSFORMER LOCATED IN THE SAME ROOM AS THE PANEL, THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

120 VOLTS	277 VOLTS
o- USING #12 AWG 90 FT.	180 FT.
o- USING #10 AWG 150 FT.	300 FT.
o- USING #8 AWG 250 FT.	450 FT.
o- USING #6 AWG 380 FT.	700 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 4% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.

IF PANELBOARD IS FEED FROM A TRANSFORMER LOCATED REMOTELY FROM THE PANEL, THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

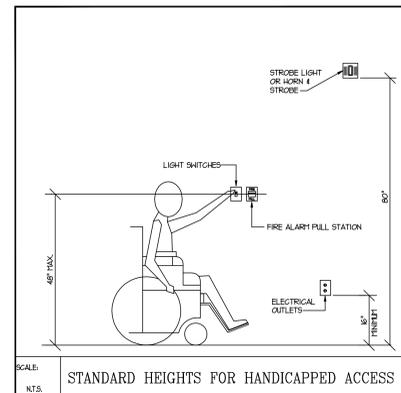
120 VOLTS	277 VOLTS
o- USING #12 AWG 75 FT.	150 FT.
o- USING #10 AWG 125 FT.	250 FT.
o- USING #8 AWG 205 FT.	420 FT.
o- USING #6 AWG 325 FT.	660 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 3% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.

BRANCH CIRCUIT DEFINITION:
CIRCUIT ORIGINATING FROM A 20 AMP CIRCUIT BREAKER IN A BRANCH PANEL AND ENDING AT THE LAST OUTLET OUTLET ON THE CIRCUIT OR END AT THE LAST LIGHT FIXTURE.

SCALE: N.T.S.

TYPICAL BRANCH CIRCUIT LENGTH DETAIL



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WEBBER STATE UNIVERSITY HEAT EXCHANGER REPLACEMENT IN: EDUCATION, SCIENCE LAB, SOCIAL SCIENCE, LIBRARY SOUTH, ALLIED HEALTH SOUTH AND NORTH, ADMINISTRATION, AND STADIUM BLDGS.

3848 HARRISON BLVD.
 OGDEN, UTAH 84408

DATE	12/09/2008
SCALE	AS NOTED
DRAWN	RS
CHECKED	JHM
JOB NO.	3778
FILE NAME	E001

SHEET TITLE
**GENERAL NOTES
 DETAILS AND
 SCHEDULES**

SHEET NO.
E001

E.C.E. INC.
 Electrical Consulting Engineers
 939 So. West Temple
 Salt Lake City, Utah 84101
 Telephone (801) 521-8007
 Telefax (801) 521-8057

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- REFERENCE NOTES:**
- ◇ EXISTING DEVICES, PANELBOARDS, ETC. SHALL REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
 - ◇ EXISTING MECHANICAL UNIT SHALL BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT POWER AND REMOVE CONDUCTORS, THERMAL SWITCH, J-BOXES, ETC. BACK TO ORIGINATION POINTS. UTILIZE EXISTING CONDUIT AND J-BOXES AS POSSIBLE FOR NEW INSTALLATIONS. REMOVE ANY ABANDONED CONDUIT.
 - ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "P". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
 - ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "A2". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

NO.	DATE	DESC.



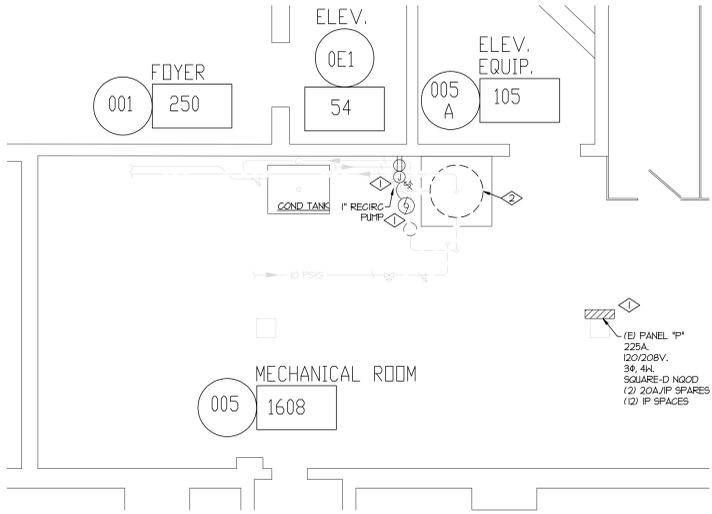
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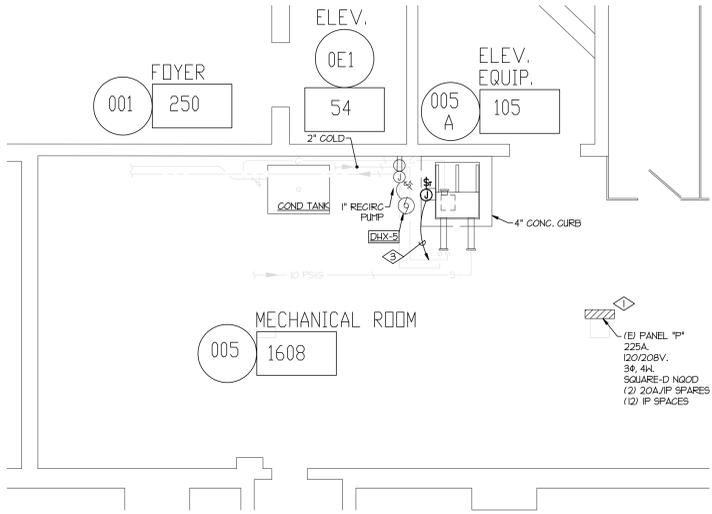
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 CHECKED: JHM
 JOB NO. 3778
 FILE NAME: E001

SHEET TITLE
 EDUCATION BLDG. & SCIENCE LAB BLDG. DEMO & REMODEL PLANS - ELECTRICAL

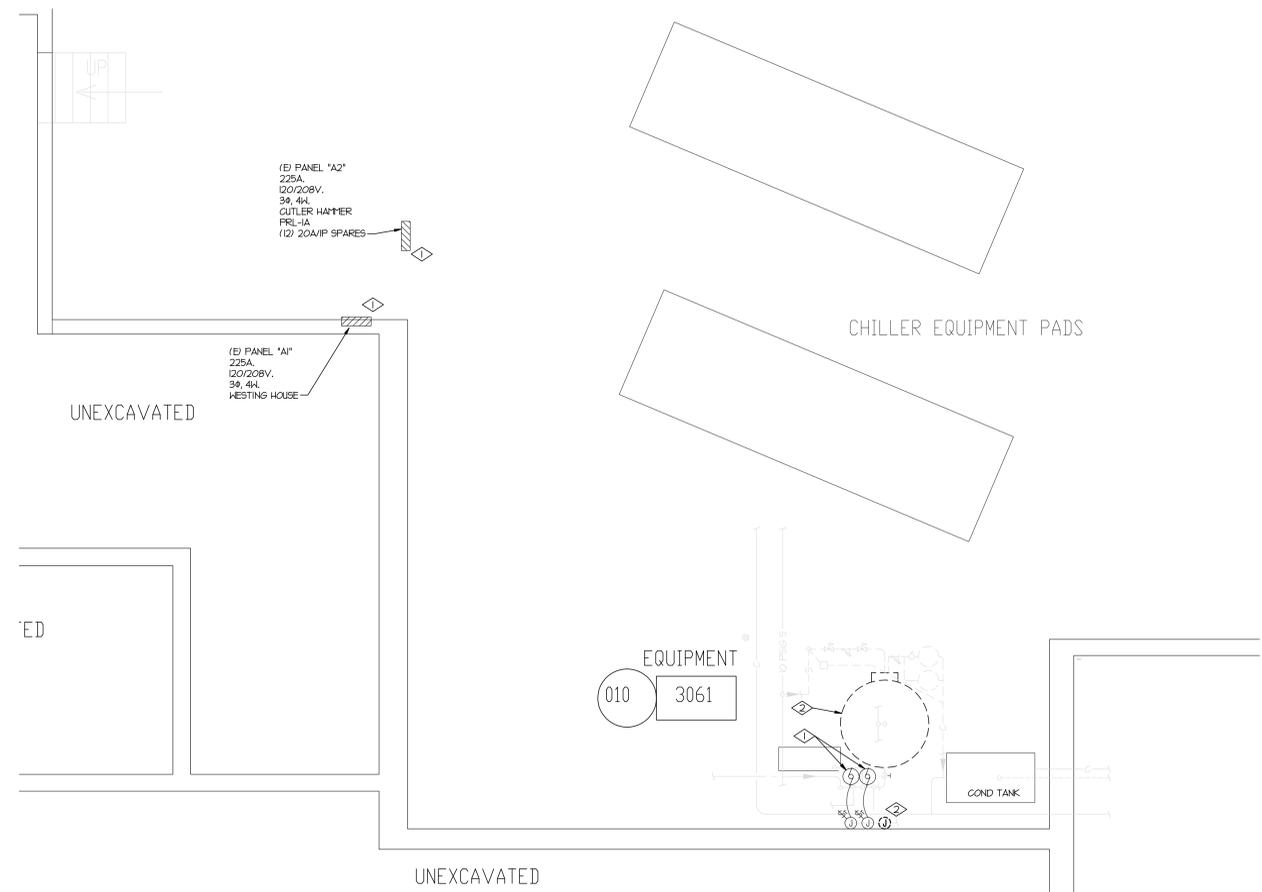
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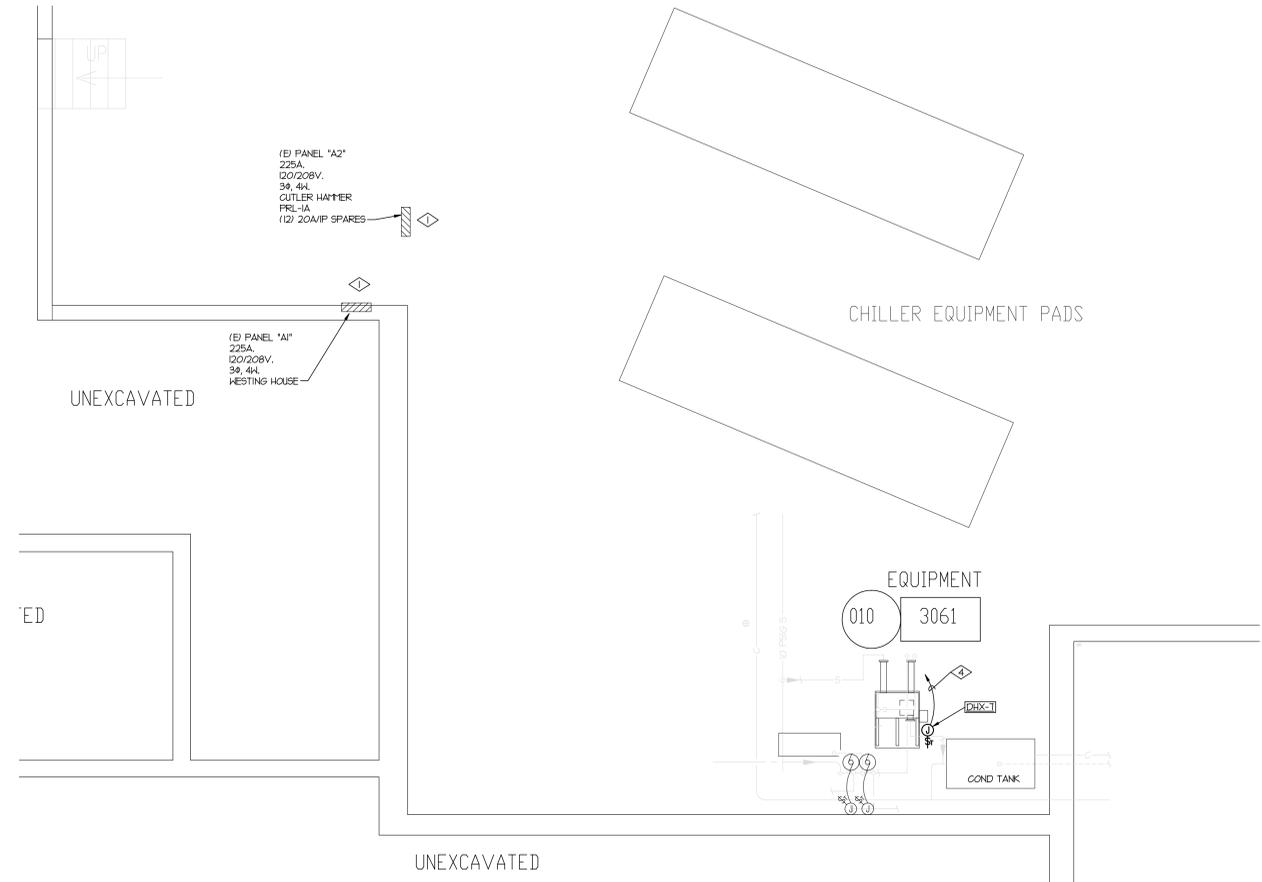
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 SCALE: 1/4" = 1'-0"



2 EDUCATION BUILDING REMODEL PLAN
 SCALE: 1/4" = 1'-0"

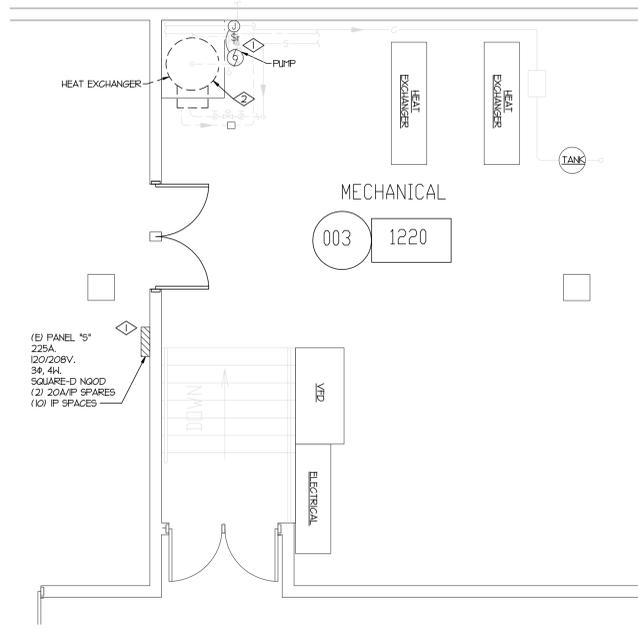


3 SCIENCE LAB BUILDING DEMO PLAN
 SCALE: 1/4" = 1'-0"

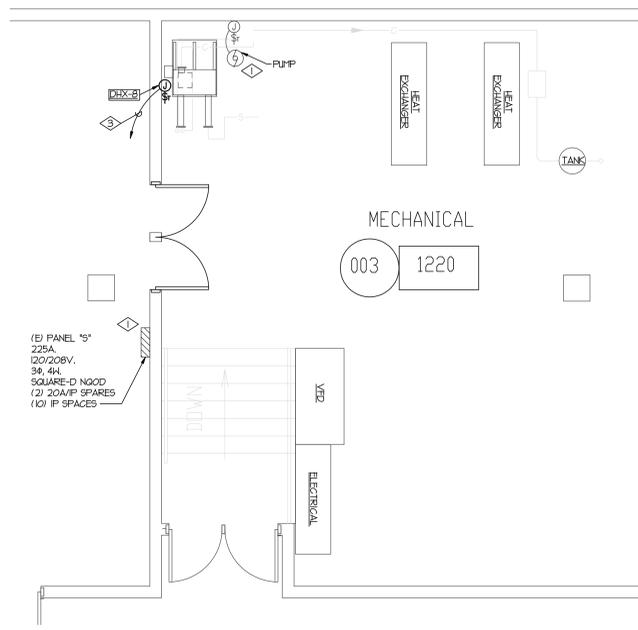


4 SCIENCE LAB BUILDING REMODEL PLAN
 SCALE: 1/4" = 1'-0"

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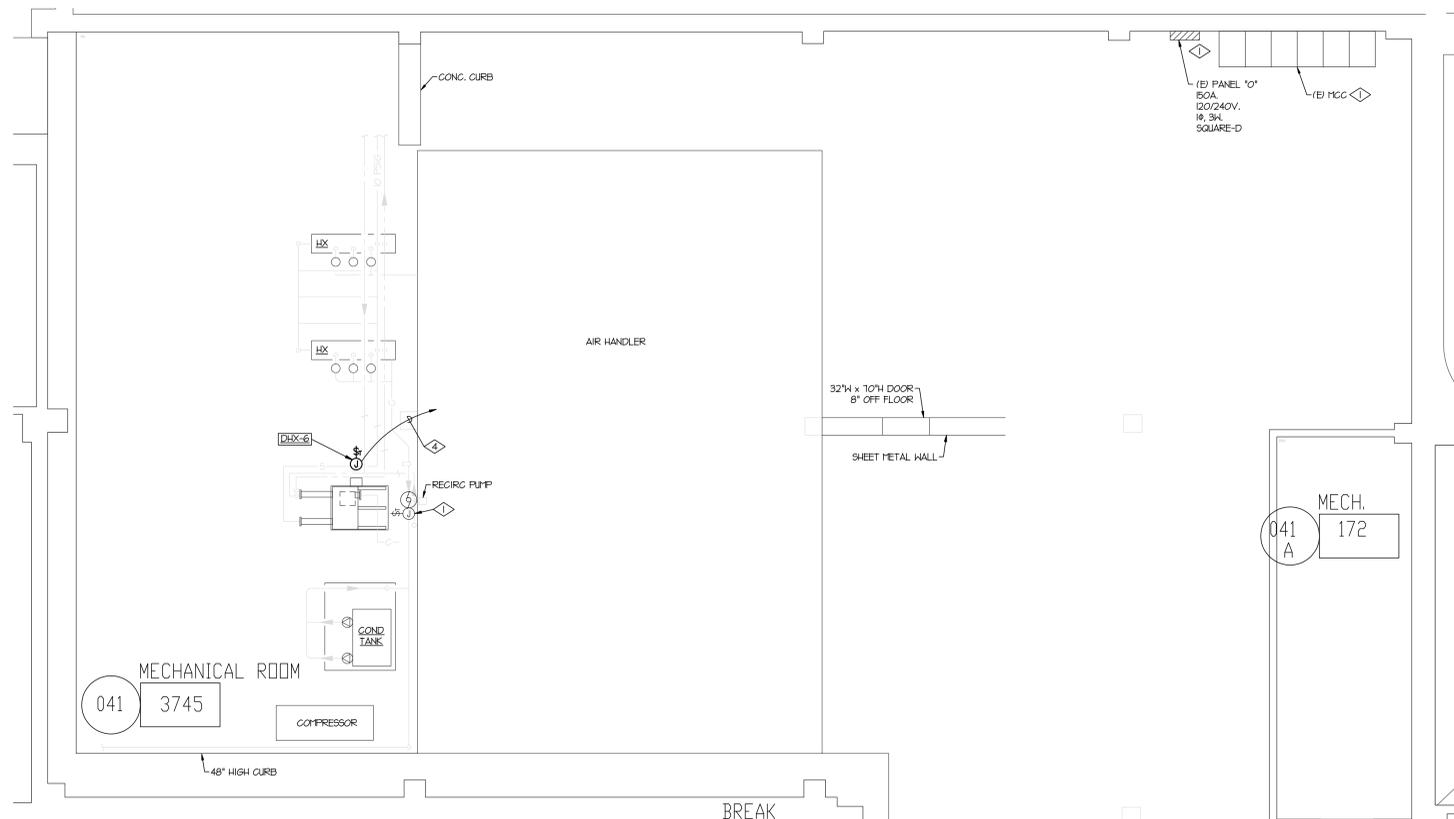
1 SOCIAL SCIENCE BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 SOCIAL SCIENCE BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



3 LIBRARY SOUTH DEMO PLAN
SCALE: 1/4" = 1'-0"



3 LIBRARY SOUTH REMODEL PLAN
SCALE: 1/4" = 1'-0"

- REFERENCE NOTES:**
- ◇ EXISTING DEVICES, PANELBOARDS, ETC. SHALL REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
 - ◇ EXISTING MECHANICAL UNIT SHALL BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT POWER AND REMOVE CONDUCTORS, THERMAL SWITCH, J-BOXES, ETC. BACK TO ORIGINATION POINTS. UTILIZE EXISTING CONDUIT AND J-BOXES AS POSSIBLE FOR NEW INSTALLATIONS. REMOVE ANY ABANDONED CONDUIT.
 - ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "5". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
 - ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "0". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

NO.	DATE	REVISIONS:	DESC.



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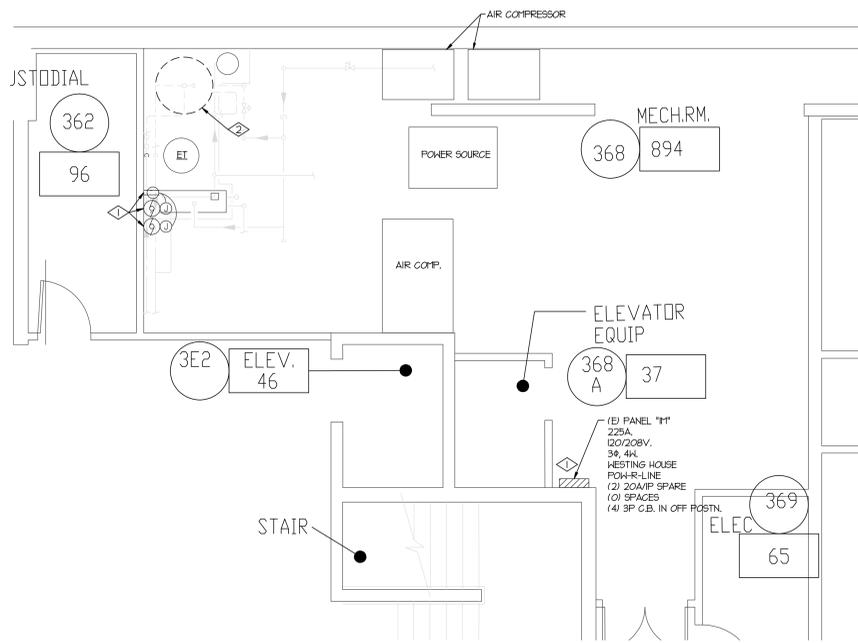
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CHECKED	JHM
JOB NO.	3778
FILE NAME	E001

SHEET TITLE
SOCIAL SCIENCE BLDG. & LIBRARY SOUTH BLDG. DEMO & REMODEL PLANS - ELECTRICAL

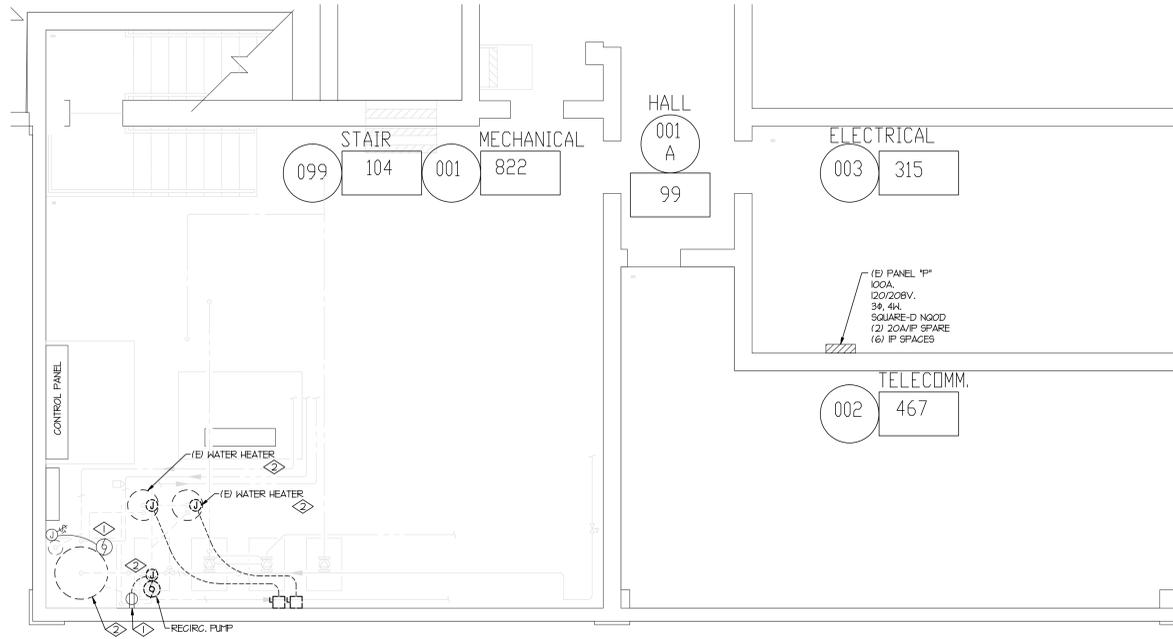
SHEET NO.
E102

ECE
E.C.E. INC.
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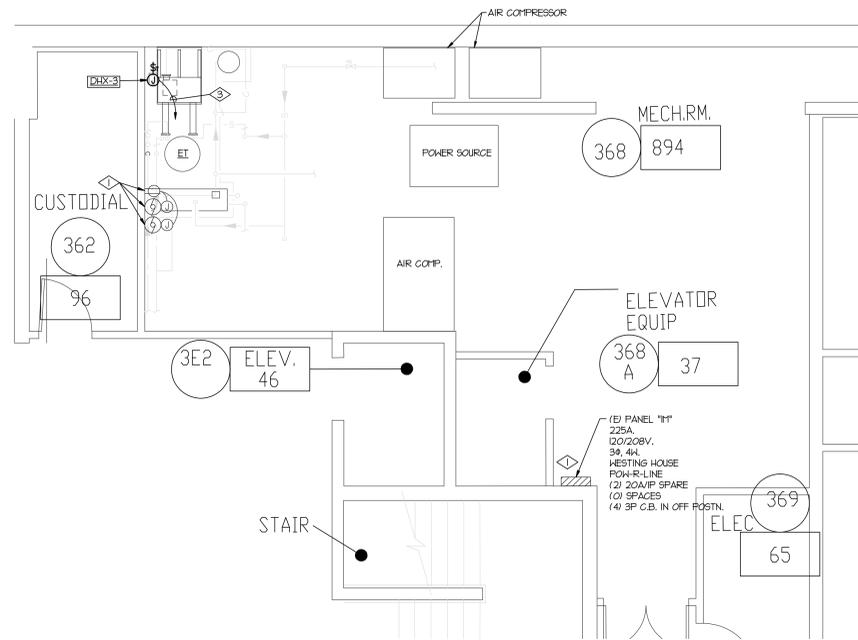
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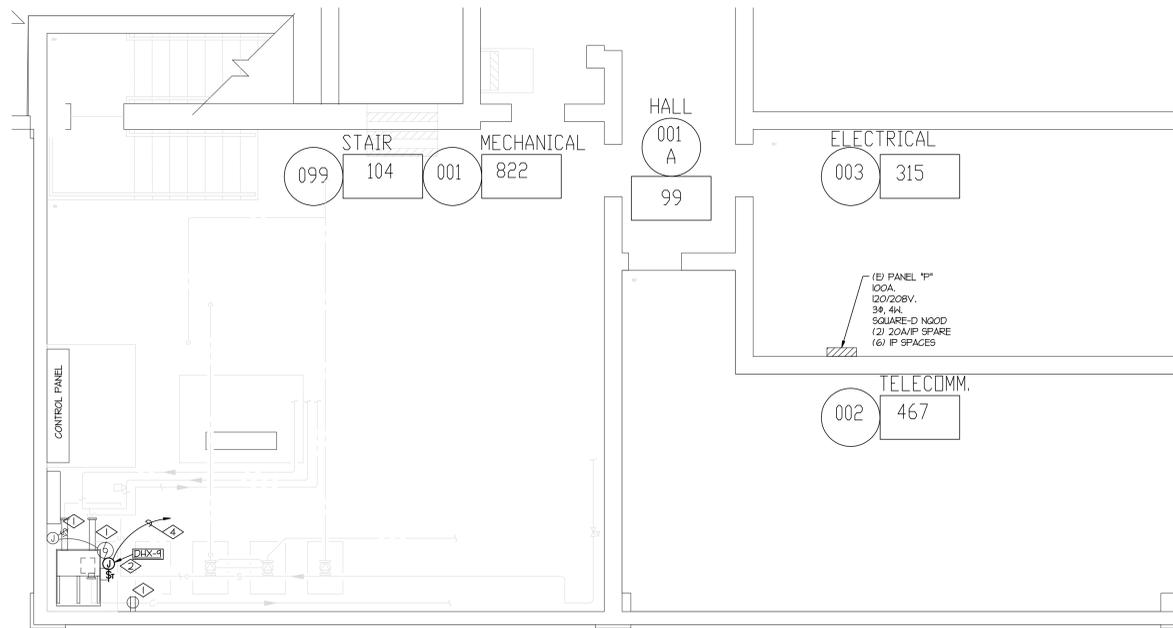
1 ALLIED HEALTH SOUTH BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



3 STUDENT SERVICES BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 ALLIED HEALTH SOUTH BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



4 STUDENT SERVICES BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"

REFERENCE NOTES:

- ◇ EXISTING DEVICES, PANELBOARDS, ETC. SHALL REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
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- ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "M". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
- ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "M". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

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3848 HARRISON BLVD.
OGDEN, UTAH 84408

DATE: 12/09/2008
SCALE: AS NOTED
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CHECKED: JHM
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SHEET TITLE
ALLIED HEALTH SOUTH & STUDENT SRVCS. BLDGS. DEMO & REMODEL PLANS - ELECTRICAL

SHEET NO.
E103

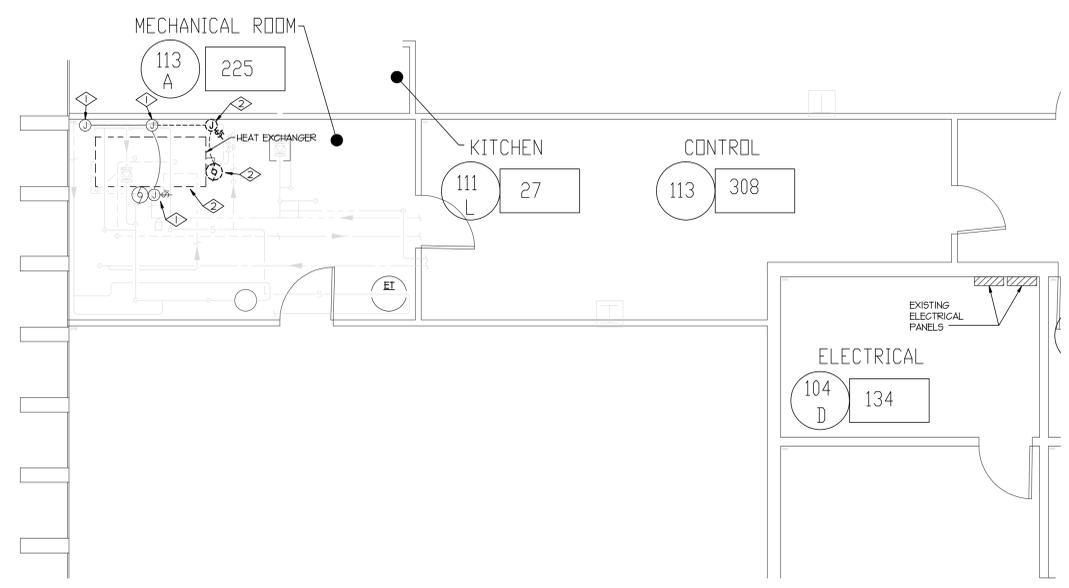
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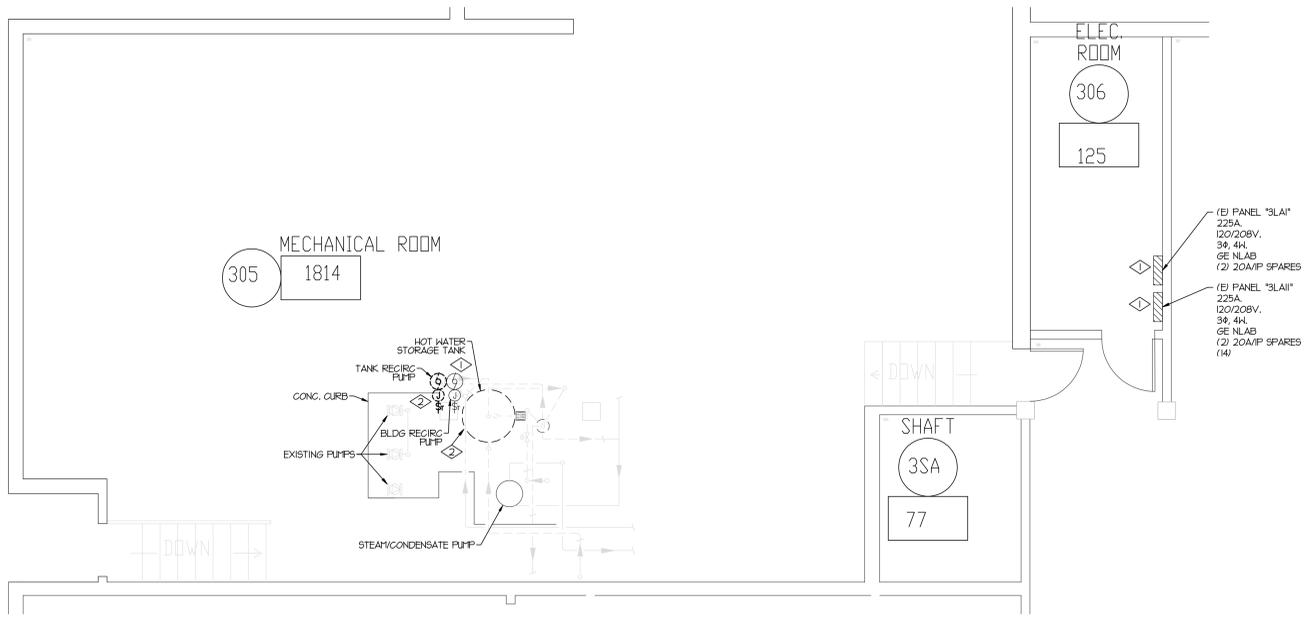
REFERENCE NOTES:

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- ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER FROM THE NEAREST 120/208V. PANEL WITH AVAILABLE SPARES. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
- ◇ TIE THE NEW HEAT EXCHANGER TO A SPARE 20A, 1-POLE CIRCUIT BREAKER IN THE EXISTING PANEL "3LAI". REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.

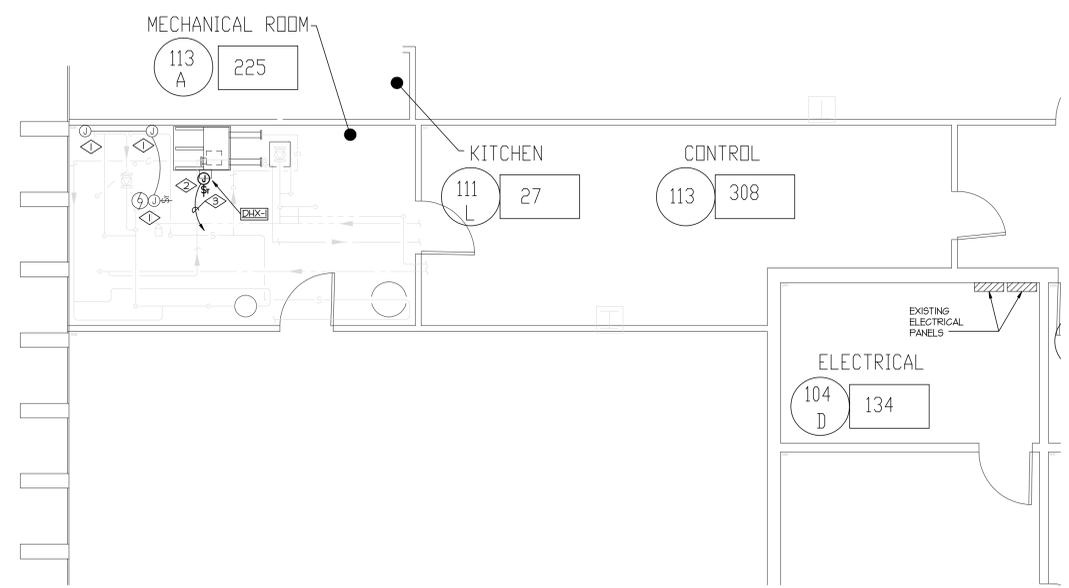
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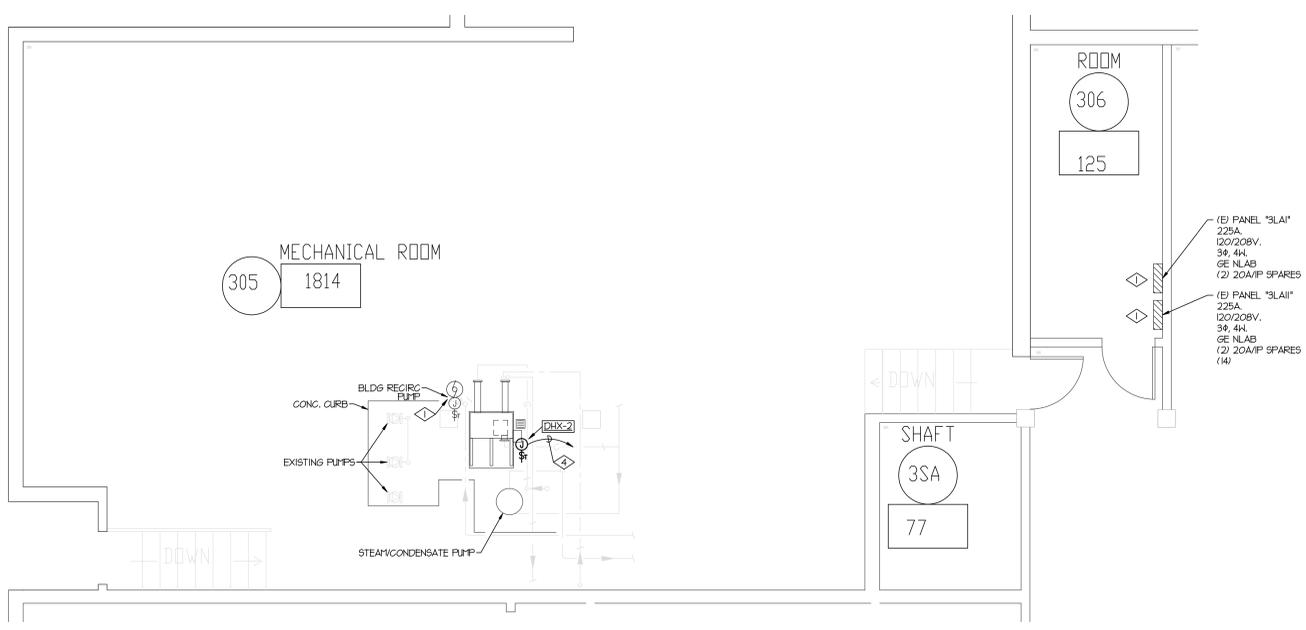
1 ADMINISTRATION BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



3 ALLIED HEALTH NORTH BUILDING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 ADMINISTRATION BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



4 ALLIED HEALTH NORTH BUILDING REMODEL PLAN
SCALE: 1/4" = 1'-0"



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 3848 HARRISON BLVD.
 OGDEN, UTAH 84408

DATE: 12/09/2008
 SCALE: AS NOTED
 DRAWN: RS
 CHECKED: JHM
 JOB NO. 3778
 FILE NAME: EIC4

SHEET TITLE:
 ADMINISTRATION BLDG. & ALLIED HEALTH NORTH BLDG. DEMO & REMODEL PLANS - ELECTRICAL

SHEET NO.
 E104

ADMINISTRATION BUILDING & ALLIED HEALTH NORTH BUILDING ALTERNATE #1

