

Addendum No. 3
MOGUL BOOSTER PUMP STATION
PWP Bid No.: WA-2017-231
TMWA Capital Project No.: 13-0022
August 11, 2017

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect.

Please note, the date and time for receipt of bids remains 3:00 P.M. on August 16, 2017.

Plans:

1. Structural Plan Sheet S100, Detail A/S001. Delete reference to "stairs". There are no stairs in this project.
2. Structural Plan Sheet S100, Detail 1/S100 and Section C/S100, field adjust the knee brace in the steel frame at the entrance door to maintain clear access. It is anticipated that the connection point for the top of the knee brace to the W beam will be moved toward the wall.
3. The Owner has added an air conditioning unit to the project. Please see enclosed HVAC sheets.
4. To accommodate the Air Conditioning unit, please make the following electrical modifications:
 - a. See mechanical HVAC drawings for new pump house AC-1 unit's location and additional requirements.
 - b. Provide one 30A/2P circuit breaker at Panel LP-A for the new pump house AC unit.
 - c. Provide one 30A/2P safety disconnect switch at outdoor AC-1 unit.
 - d. Provide new conduit P00009A from LP-A to outdoor AC-1 unit with 1"C-2#10,1#10G.
 - e. Provide new conduit P00009B from outdoor AC-1 unit to indoor AC-1 unit with 1"C-2#10,1#10G.
 - f. Provide new conduit C00004 from outdoor AC-1 unit to indoor AC-1 unit with 1"C-6#14,1#14G.
5. Sheet D101 and E101, there is an existing block insert area in the block wall in place of an old door that did not receive proper exterior waterproofing. As part of the painting effort, the exterior portion of this west wall shall be water blasted or brushed and then sealed with paint system L block sealer.

Specifications:

1. **Booster Pump Criteria Change.** Specification Section 11318, page 11318-2, change the design operating point to **700 gal/min. at 200 feet TDH**. At any other locations in the plans or specs that call out the operating point as 800 gpm, revise these to 700 gpm. Also in Section 11318 design criteria, change the maximum motor horsepower to 60 HP, and reduce the minimum runout flow from 1,000 gpm to 900 gpm. Note all pumps shall be certified per NSF 61 for potable water use.

QUESTIONS AND RESPONSES

Question No. 1: The specs call for the panelboards to be NEMA 1. The TVSS is called out in the specs for panel 'PP-A' as a NEMA 3R. Is this not to be integrated into panel 'PP-A'? Is this new TVSS to located outdoors or somewhere it requires it to be NEMA 3R?

Response to Question No. 1:

The TVSS for PP-A can be NEMA 1.

Question No. 2: Is any of the instrumentation supplied by the owner? If so, which ones?

Response to Question No. 2:

The (2) PITs will be supplied by TMWA, Contractor to install.

Question No. 3: Sheet E001, sheet note #1 and sheet E100, sheet note E2 call for NVE standards and service design drawings. Are these drawings going to be made available to us. The conduit schedule on sheet E001, sheet note #1 indicates that the final conduit and conductor sizes shall be per NVE engineered service design drawings. The schedule calls out conductor sizes from the service transformer and the new meter/main panel. These conductors are normally pulled in by NVE. The underground conduits are normally installed by the electrical contractor. Is this the understanding of the electrical drawings?

Response to Question No. 3:

NVE is currently designing the service upgrade, once completed the NVE drawings will be sent out. For bidding purposes, Contractor is directed to prepare his bid based on the electrical drawings. Per recent projects, NVE has required the Owner to provide both service conduits and wires. Termination of wires by NVE.

Question No. 4: Instrument plan 2/E102 has conduit call outs P00161 & P00162. These conduits are not indicated on the conduit and conductor schedule on sheet E001. Conduit P00171 is also called out and is indicated on the schedule. Are the two conduits and conductors that are not called out the same as P00171?

Response to Question No. 4:

Response: Yes, conduits P00161 and P00162 are the same size and have the same number of wires as P00171. A revised conduit and cable schedule will be issued on the conformed set.

ATTACHMENTS

New Plan Sheets:

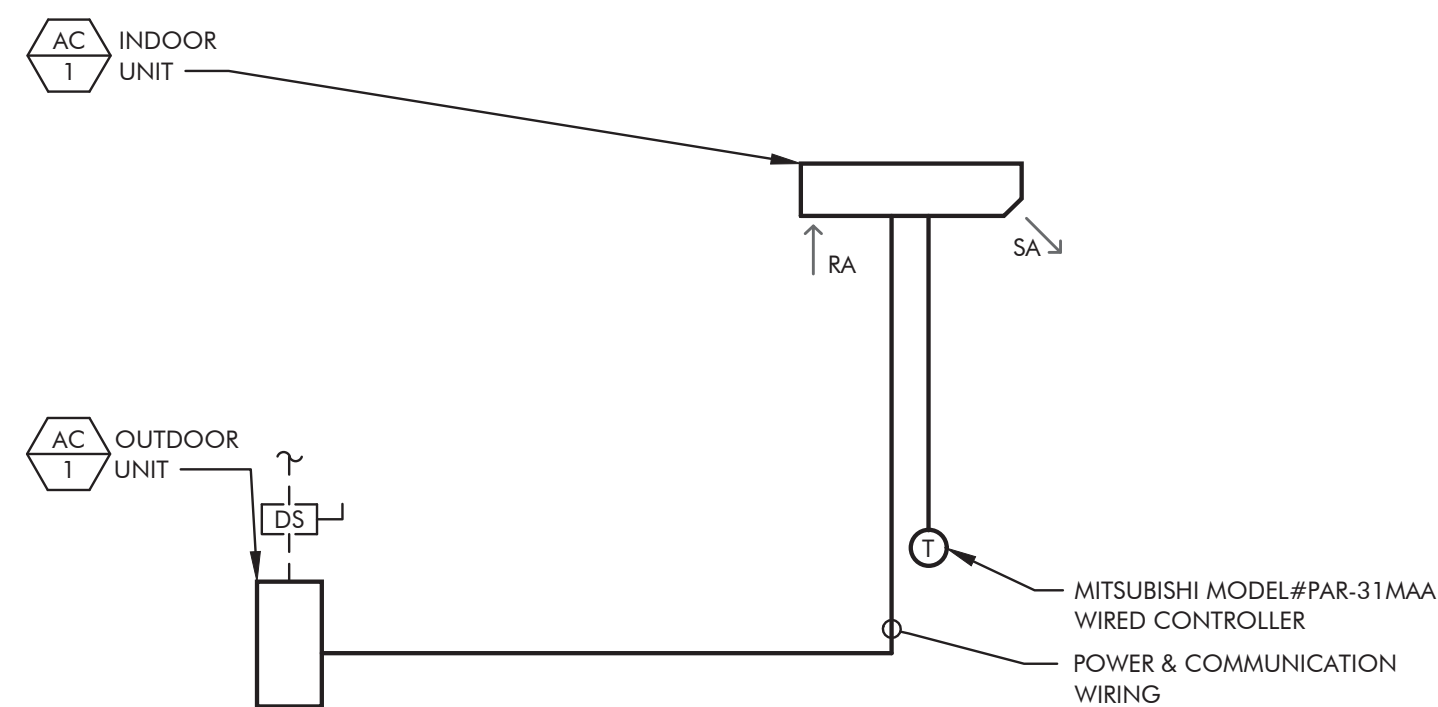
H100

H101

H102

END OF ADDENDUM NO. 3

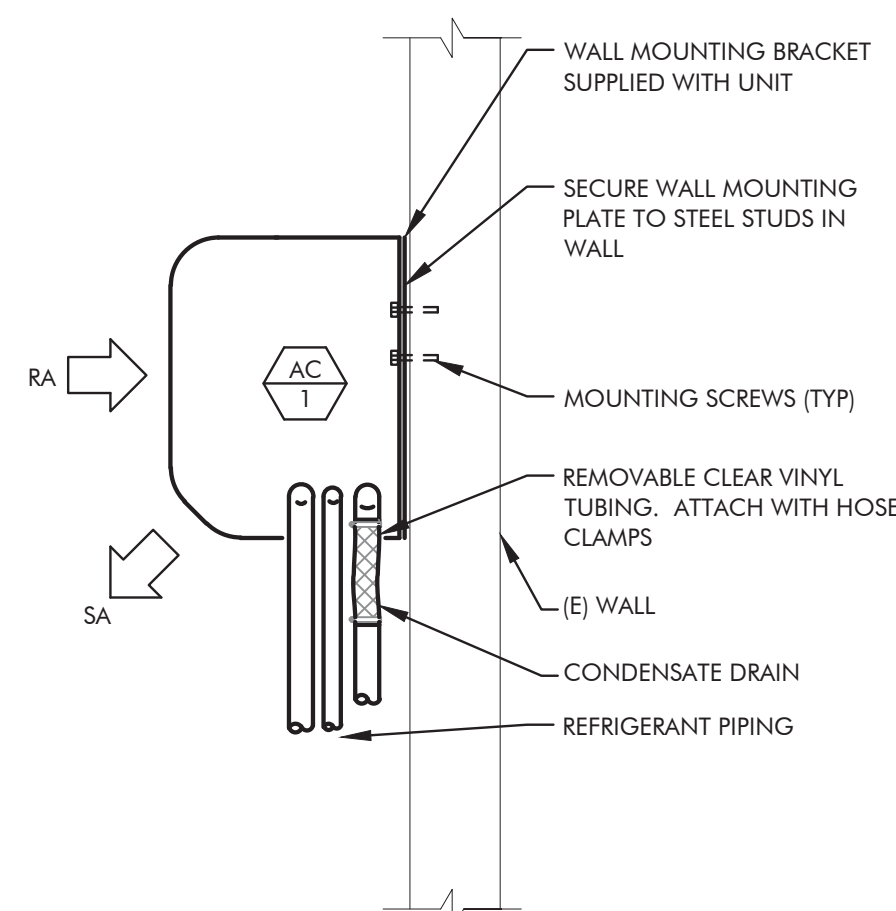
QUESTION CUT-OFF DATE: AUGUST 10, 2017



CONTROL DIAGRAM

SCALE: NONE

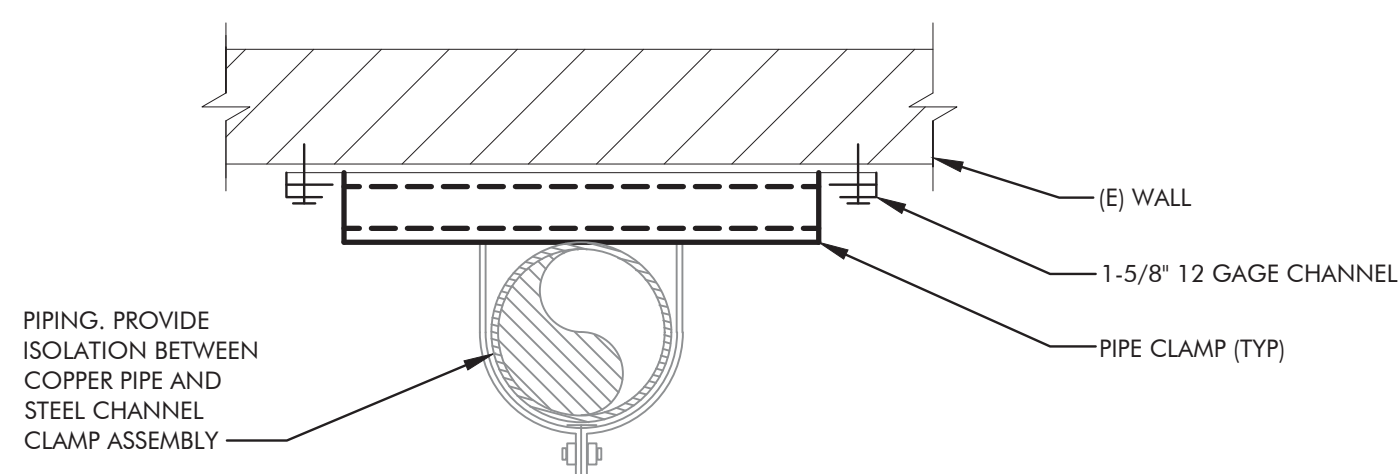
1
H100



INDOOR UNIT MOUNTING DETAIL

SCALE: NONE

2
H100



PIPE MOUNTED TO WALL DETAIL

SCALE: NONE

3
H100

MECHANICAL EQUIPMENT SCHEDULE

AC 1
OUTDOOR UNIT
MITSUBISHI - MODEL MUY-D30NA-1 COOLING ONLY OUTDOOR UNIT. SYSTEM SHALL HAVE A TOTAL AND SENSIBLE COOLING CAPACITY OF 24,900 BTUH AT 100°F OUTDOOR AMBIENT TEMPERATURE. SYSTEM COOLING EFFICIENCY SHALL BE 16.0 SEER. SET COOLING SETPOINT TO 80°F.
ELECTRICAL: 240V/1Ø/60Hz, 21 MCA, 25 MOC
WEIGHT: 130 LBS

INDOOR UNIT
MITSUBISHI - MODEL MSY-D30NA-8 WALL MOUNTED INDOOR UNIT. UNIT SHALL BE CAPABLE OF DELIVERING 700 CFM OF SUPPLY AIR AT 4,700 FEET ELEVATION. PROVIDE WITH MODEL PAR-31MAA WIRED CONTROLLER.
ELECTRICAL: UNIT IS SUB-FED BY OUTDOOR UNIT
WEIGHT: 50 LBS

TEMPERATURE CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION
T	THERMOSTAT OR TEMPERATURE SENSOR
—	CONTROL WIRING
---	POWER WIRING
DS	DISCONNECT SWITCH (FUSED)
R	RELAY (POLES AND VOLTAGE AS REQUIRED)
FCA	FAN COIL CONTROL VALVE ACTUATOR
PS	POWER SUPPLY (SIZE & VOLTAGE AS REQUIRED)
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
SA	SUPPLY AIR
RA	RETURN AIR

HVAC SYMBOL LEGEND

SYMBOL	ABBR.	DESCRIPTION
⊕	TSTAT	TEMPERATURE SENSOR
— — —		UNION
— — —		PIPE BREAK
— — —		PIPE CAP OR PLUG
⊕	ELL	PIPE ELBOW
⊖		PIPE ELBOW DOWN
⊕		PIPE ELBOW UP
⊕		PIPE RISER
⊖		PIPE DROP
—D—		EQUIPMENT OR CONDENSATE DRAIN PIPING
	AFF/AFG	ABOVE FINISHED FLOOR/GRADE
	CFM	CUBIC FEET PER MINUTE
	DB,WB	DRY BULB, WET BULB TEMPERATURE
	DP	DIFFERENTIAL PRESSURE
	EAT/LAT	ENTERING/LEAVING AIR TEMPERATURE
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	HP	HORSEPOWER
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	E	EXISTING

SHEET LIST

- H100 HVAC LEGEND, SCHEDULE, AND DETAILS
- H101 HVAC SPECIFICATIONS
- H102 HVAC FLOOR PLAN



5434 LONGLEY LANE
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PROJECT NO: 117317

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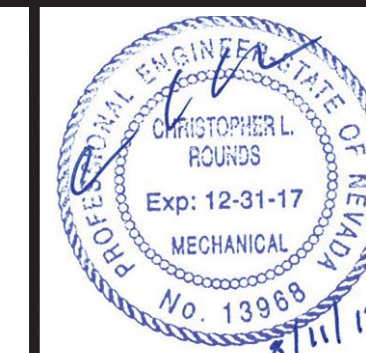
REVISION	DESCRIPTION	BY	APP	DATE

WORK ORDER NO. 13-0022
DESIGNED CRB
DRAWN CRB
DATE JULY 2017
CHECKED CLR
SUBMITTED
RECOMMENDED
APPROVED

TRUCKEE MEADOWS WATER AUTHORITY
1355 CAPITAL BLVD. / PO BOX 30013
RENO, NEVADA 89520-3013
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**MOGUL BOOSTER PUMP STATION
HVAC LEGEND, SCHEDULE, AND
DETAILS**



SHEET NUMBER
H100
OF 20

MECHANICAL SPECIFICATIONS

A. GENERAL

1. THE INFORMATION INDICATED ON THESE DRAWINGS AS EXISTING IS BASED UPON INFORMATION TAKEN FROM AS-BUILT DRAWINGS, FIELD INVESTIGATION, AND INFORMATION OBTAINED FROM SUBMITTAL DATA, ETC. THE PLANS DO NOT GUARANTEE ACCURACY BUT ARE ONLY AN INDICATION OF EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT CONDITIONS SUCH AS EQUIPMENT PLACEMENT, DUCTWORK (SIZE, ROUTING, AND ELEVATION), PIPING (SIZE, ROUTING, AND ELEVATION), ETC. THE DRAWINGS ARE INTENDED TO PROVIDE THE CONTRACTOR AN INDICATION OF THE SYSTEM INSTALLED IN THE FACILITY TO DATE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ADJUSTMENTS TO THE DRAWING INFORMATION AS REQUIRED TO MATCH EXISTING FIELD CONDITIONS.
2. THE CONTRACTOR SHALL INSTALL THE NEW EQUIPMENT, DUCTWORK, AND PIPING AROUND ALL EXISTING OBSTACLES INCLUDING: ELECTRICAL CONDUIT, DOMESTIC WATER PIPING, WASTE AND VENT PIPING, ACID WASTE AND VENT PIPING, CHILLED AND HEATING WATER PIPING, AND FIRE SPRINKLER PIPING. PROVIDE OFFSETS TO AVOID RELOCATION OF OTHER UTILITIES. RELOCATE UTILITIES IF THEY ARE IN CONFLICT WITH THE MECHANICAL SYSTEM INSTALLATION. CAUSE DEVIATIONS IN THE DESIGN INTENT. UNSATISFACTORY OPERATION, NOISY CONDITIONS, OR INTERFERE WITH MAINTENANCE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY UTILITY RELOCATION WITH THE APPROPRIATE SUBCONTRACTOR.
3. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE HEATING, VENTILATING AND AIR CONDITIONING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.
4. PROVIDE ALL PERMITS AND FEES AS REQUIRED FOR THE MECHANICAL WORK.
5. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT BEFORE BIDDING.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC), 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 INTERNATIONAL FIRE CODE (IFC), 2012 UNIFORM MECHANICAL CODE (UMC), 2012 UNIFORM PLUMBING CODE (UPC), 2011 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
7. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.
8. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOBSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE EQUIPMENT.
9. PROVIDE AND INSTALL ALL EQUIPMENT, DUCT, PIPING, AND CONTROLS AS SHOWN ON THE DRAWINGS.

B. SUBMITTALS

1. FURNISH SIX (6) SETS OF SUBMITTALS (BOUND WITH COVER) OF MANUFACTURER'S DATA SHEETS FOR ALL MATERIALS AND EQUIPMENT FOR APPROVAL OF THE ARCHITECT/ENGINEER PRIOR TO PURCHASE AND INSTALLATION. INCOMPLETE SUBMITTALS WILL NOT BE REVIEWED.
2. ELECTRONIC SUBMITTALS IN ADOBE PDF FORMAT, IN LIEU OF PAPER COPIES, WILL ONLY BE ACCEPTED IF PRIOR WRITTEN AUTHORIZATION IS GRANTED BY THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR.
3. SUBSTITUTED ITEMS SHALL BE SUBMITTED WITH MANUFACTURER'S DESCRIPTIVE DATA AND MUST SHOW EQUALITY TO EQUIPMENT SPECIFIED. INFORMATION ON SUBSTITUTED ITEMS MUST BE COMPLETE, INCLUDING, BUT NOT LIMITED TO: DESIGN, CONSTRUCTION MATERIALS, CONSTRUCTION QUALITY, AND SOUND LEVELS. ENGINEER WILL NOT RESEARCH INFORMATION REQUIRED TO COMPARE EQUIPMENT. ENGINEER RESERVES THE RIGHT TO REQUIRE SPECIFIED EQUIPMENT.
4. SUBMIT MANUFACTURER'S DESCRIPTIVE DATA WITHIN TEN (10) WORKING DAYS AFTER AWARD OF THE CONTRACT. MATERIALS AND EQUIPMENT SHALL NOT BE ORDERED PRIOR TO SUBMITTAL APPROVAL. ALLOW TEN (10) WORKING DAYS AFTER RECEIPT OF SUBMITTALS IN THE ENGINEER'S OFFICE BEFORE REVIEWED SUBMITTALS WILL BE RETURNED.
5. UPON COMPLETION OF THE PROJECT, AND PRIOR TO FINAL ACCEPTANCE PAYMENT, SUBMIT ONE (1) SET OF AS-BUILT DRAWINGS AND THREE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS (BOUND IN 3-RING BINDERS).

C. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

D. CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WATER WILL NOT BE USED FOR CONCRETE CUTTING WITHOUT THE DIRECT SUPERVISION OF THE OWNER'S ENGINEERING REPRESENTATIVE.

E. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

F. SEISMIC RESTRAINTS

1. ALL EQUIPMENT, DUCTWORK, PIPING, AND CONDUIT SHALL BE SEISMICALLY RESTRAINED PER THE 2012 IBC.
2. REFERENCES: INTERNATIONAL BUILDING CODE (IBC) SECTION 1613.1, AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7) SECTION 13.6, SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) SEISMIC RESTRAINT MANUAL, AND AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE) PLUMBING ENGINEERING DESIGN HANDBOOK.
3. DELEGATED DESIGN SUBMITTAL: FOR SEISMIC RESTRAINT CALCULATIONS AND DETAILS INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING DIMENSIONED PLAN LAYOUTS AND ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEVADA RESPONSIBLE FOR THEIR PREPARATION.

G. EQUIPMENT

1. EQUIPMENT SHALL BE AS SPECIFIED IN THE EQUIPMENT SCHEDULE OR AN APPROVED EQUAL IF NOTED.
2. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
3. SECURELY FASTEN ALL EQUIPMENT TO PREVENT MOVEMENT DUE TO WIND OR SEISMIC FORCES.

H. PIPING

1. EQUIPMENT DRAIN PIPING TO BE TYPE 'M' HARD DRAWN COPPER WITH WROT COPPER FITTINGS. USE 95/5 SOLDER. SLOPE PIPING 1/8" PER FOOT TOWARDS DRAIN.
2. PROVIDE PIPING SUPPORTS PER THE 2012 UPC.
3. FLUSH ALL PIPING TO REMOVE FOREIGN MATERIAL.
4. ISOLATE ALL DISSIMILAR METALS WITH DIELECTRIC UNIONS OR APPROVED METHOD.
5. ISOLATE ALL COPPER PIPING FROM DISSIMILAR SUPPORTS.

I. VALVES AND SPECIALTIES

1. DIELECTRIC UNION: WATTS, WILKINS, OR APPROVED EQUAL UNION WITH NONCONDUCTIVE INSULATING MATERIAL BETWEEN COPPER AND FERROUS MATERIALS.

J. PIPE INSULATION

1. EXTERIOR REFRIGERANT PIPING SHALL BE INSULATED WITH 1/2" THICK POLYISOCYANURATE FOAM PIPE INSULATION WITH ALUMINUM JACKET.

K. REFRIGERANT PIPING

1. REFRIGERANT PIPING SHALL BE HARD DRAWN TYPE 'L' COPPER WITH WROUGHT COPPER FITTING.
2. ALL JOINTS SHALL BE BRAZED WITH SIL-FOS OR EQUAL UNDER A NITROGEN PURGE.
3. CHARGING OF SYSTEM: TEST ALL REFRIGERANT PIPING WITH 150 PSI CHARGE OF NITROGEN AFTER FIRST ISOLATION ANY CONTROLS, ETC., THAT ARE NOT RATED FOR 150 PSI. TEST ALL JOINTS WITH A SOAP SOLUTION. EVACUATE SYSTEM AND CHARGE SYSTEM WITH REFRIGERANT. RETEST SYSTEM WITH AN ELECTRONIC GAS DETECTOR. MAKE ALL FINAL ADJUSTMENTS TO REFRIGERANT SYSTEM AS REQUIRED.
4. AFTER SYSTEM HAS BEEN LEAK TESTED AND CHARGED, INSULATE ALL SUCTION PIPING WITH RUBATEX R-180 FS OR EQUAL 1/2" THICK CLOSED CELL FOAM INSULATION MEETING ALL NFPA REQUIREMENTS FOR SMOKE DENSITY AND FLAME SPREAD.
5. ALL OUTDOOR SECTIONS SHALL BE COVERED WITH ALUMINUM JACKET.

L. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

M. TESTING AND BALANCING

1. TEST & BALANCE TO BE CONDUCTED BY RAGLEN SYSTEM BALANCE OR A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL, AND THEY SHALL SUBMIT THREE (3) COPIES OF A FINAL SYSTEM PERFORMANCE REPORT TO THE ENGINEER FOR APPROVAL AND BEFORE THE FINAL INSPECTION.
2. AFTER COMPLETION OF THE INSTALLATION WORK, TEST AND REGULATE ALL COMPONENTS OF THE NEW SYSTEMS TO THE SATISFACTION OF THE OWNER'S ENGINEERING REPRESENTATIVE.
3. AIR BALANCE CONTRACTOR TO SUPPLY NEW DRIVE COMPONENTS REQUIRED TO PROVIDE AIR FLOWS INDICATED. THE DRIVE SHALL BE SELECTED AT NOT LESS THAN TWO TIMES THE RATE NAME PLATE HORSEPOWER OF THE FAN MOTOR AND BE FIXED PITCH (VARIABLE PITCH SHEAVES WILL NOT BE PERMITTED EXCEPT TO DETERMINE PROPER SHEAVE SIZE).
4. AIR SYSTEM: ALL COMPONENTS SHALL BE TESTED AND ADJUSTED TO -0 TO +10%. REPORT SHALL INCLUDE SCHEDULED (NAMEPLATE) AND TESTED DATA. PROVIDE FAN/MOTOR RPM, AIR PRESSURE DROP FOR INDIVIDUAL COMPONENTS, TSP, ESP, CFM, VOLTAGE, AMPS, HP, AND SHEAVE SIZES (AS APPLICABLE) FOR ALL EQUIPMENT, AIR OUTLETS, AND AIR INLETS.

N. IDENTIFICATION

1. PLASTIC NAMEPLATES: LAMINATED THREE LAYER WITH ENGRAVED BLACK LETTERS ON A LIGHT CONTRASTING BACKGROUND COLOR. INSTALL PLASTIC NAMEPLATES WITH CORROSION RESISTANT MECHANICAL FASTENERS, OR ADHESIVE.
2. LABELS: POLYESTER, SIZE AS REQUIRED, ADHESIVE BACKED WITH PRINTED IDENTIFICATION. INSTALL LABELS WITH SUFFICIENT ADHESIVE TO ENSURE PERMANENT PLACEMENT.
3. IDENTIFY ALL EQUIPMENT WITH PLASTIC NAMEPLATES.
4. IDENTIFY PIPING WITH LABELS.


O. CONTROLS

1. THERMOSTATS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR. PROVIDE POLYCARBONATE LOCKING COVER.

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REVISION	DESCRIPTION	BY	APP	DATE

WORK ORDER NO. 13-0022
 DESIGNED CRB
 DRAWN CRB
 DATE JULY 2017
 CHECKED CLR
 SUBMITTED
 RECOMMENDED
 APPROVED




TRUCKEE MEADOWS WATER AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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MOGUL BOOSTER PUMP STATION

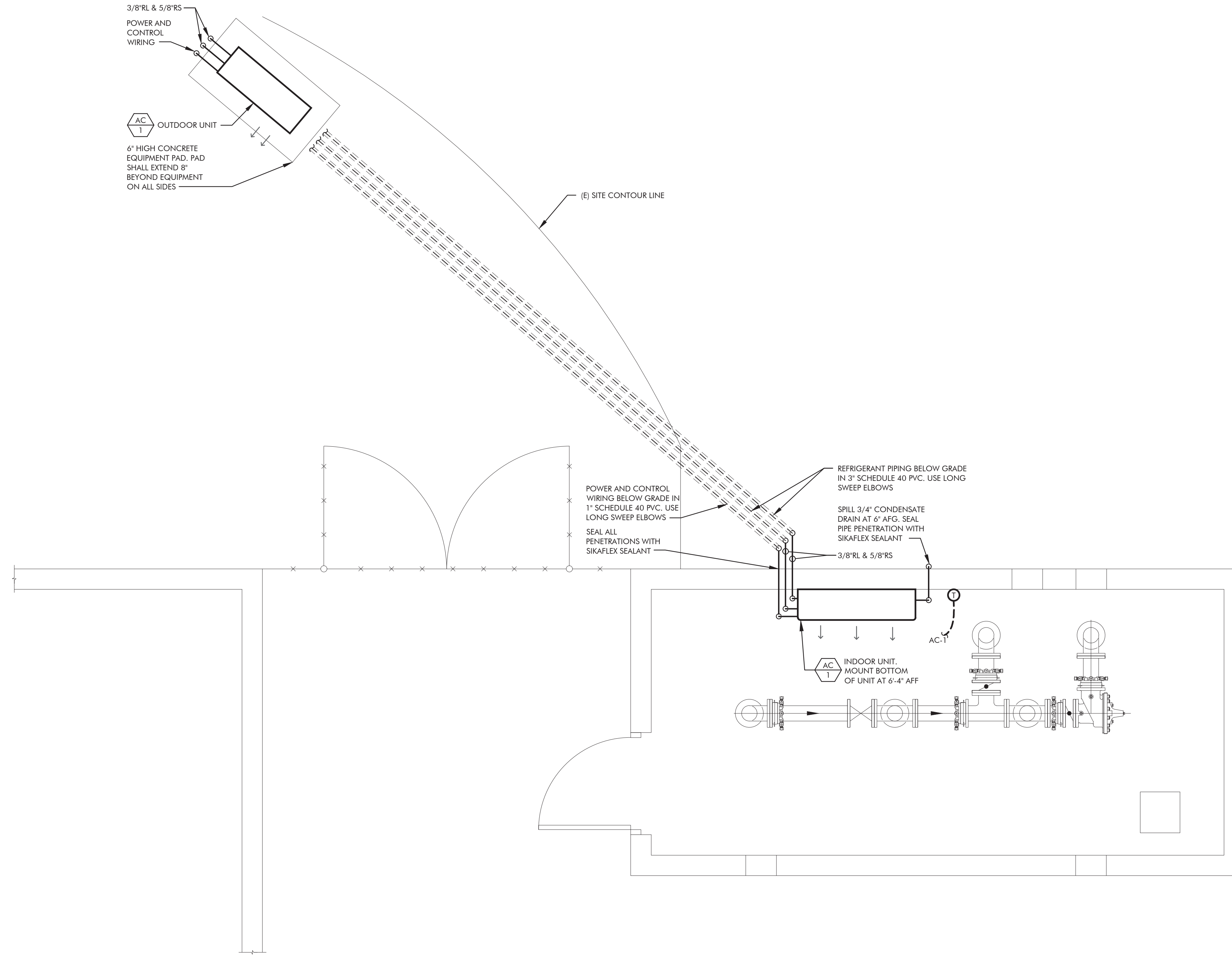
HVAC SPECIFICATIONS




SHEET NUMBER
H101
OF 20



5434 LONGLEY LANE
 RENO, NEVADA 89511
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 PROJECT NO: 117317




 **MECHANICAL FLOOR PLAN** 
SCALE: 1/2"=1'-0" 


ENGINEERING
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PROJECT NO: 117317

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AUTHORITY
1355 CAPITAL BLVD. / PO BOX 30013
RENO, NEVADA 89520-3013
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MOGUL BOOSTER PUMP STATION
HVAC FLOOR PLAN


CHRISTOPHER L. ROUNDS
Exp: 12-31-17
MECHANICAL
No. 13968
8/11/17

SHEET NUMBER
H102
OF 20