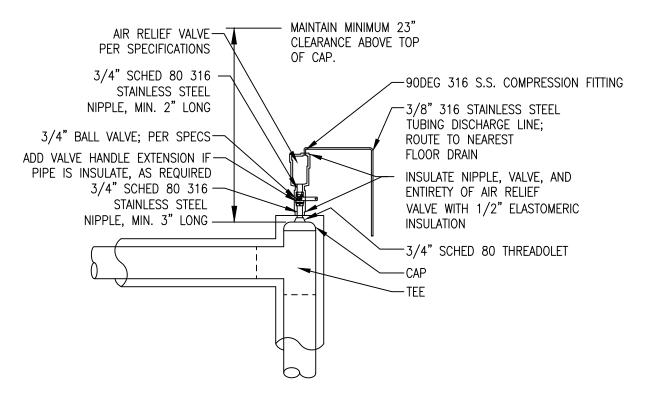
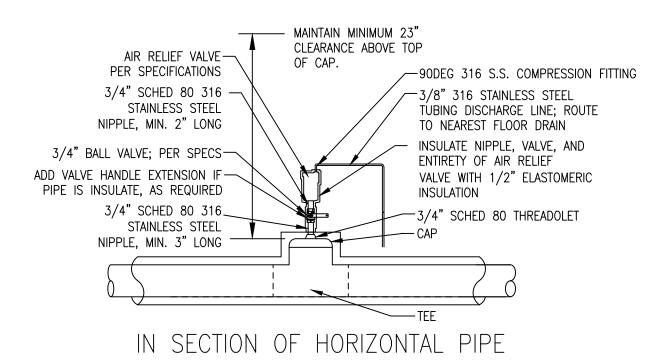
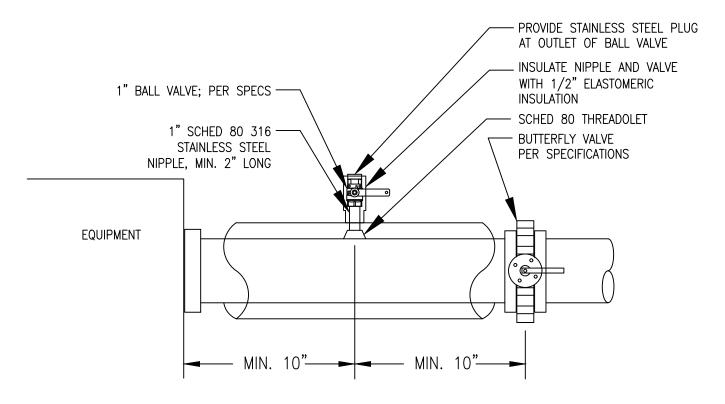
Appendix 5



AT TOP OF VERTICAL RISER

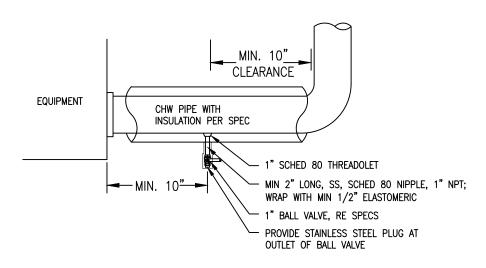


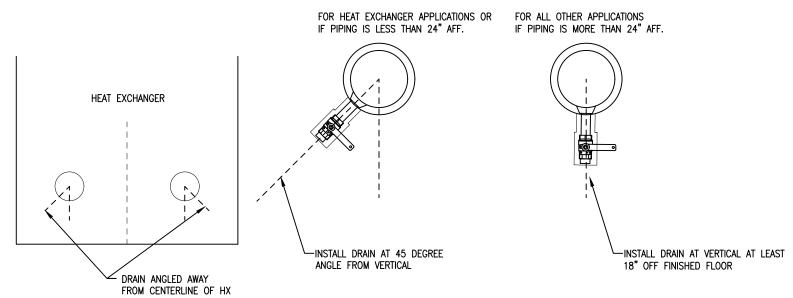
AUTOMATIC AIR VENT SCALE: M16 N.T.S.



INSTALL VENT BETWEEN EQUIPMENT AND EQUIPMENT ISOLATION VALVE

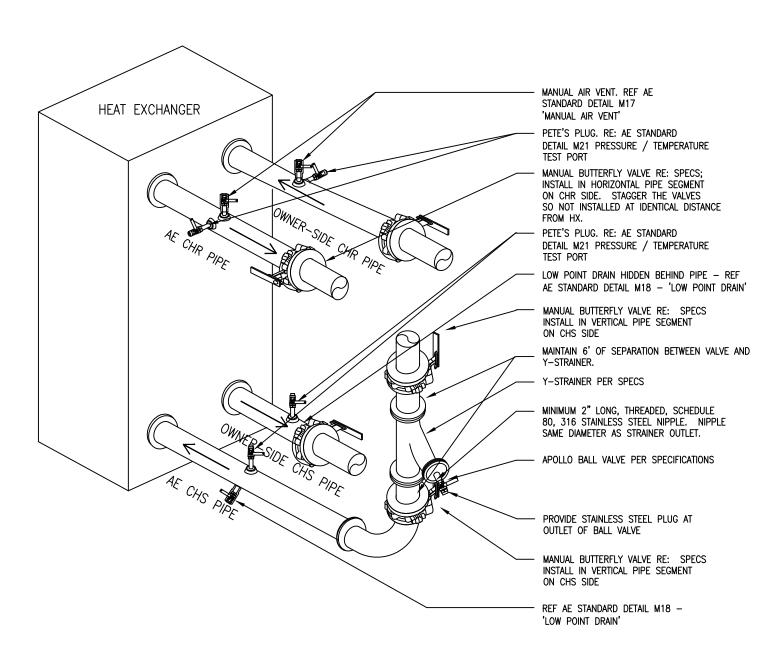




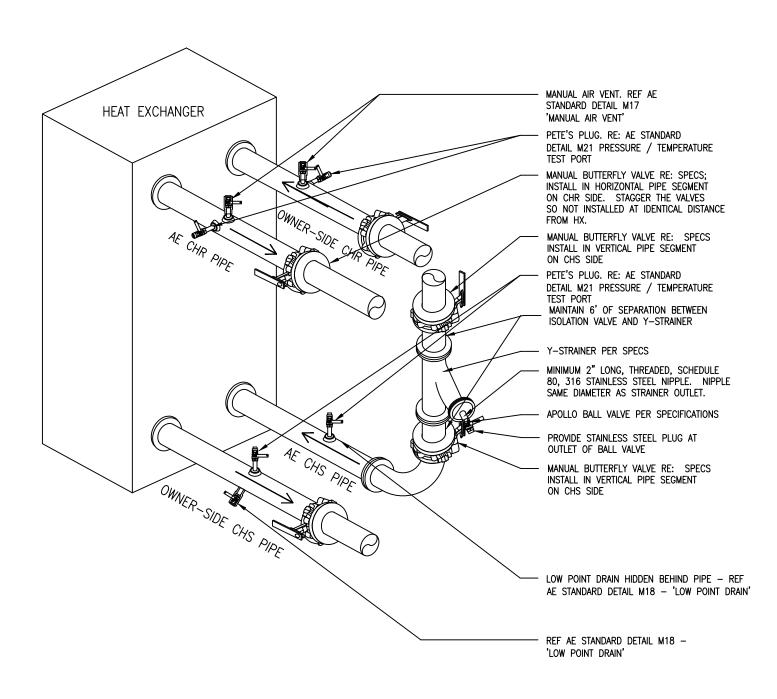


LOW POINT DRAIN



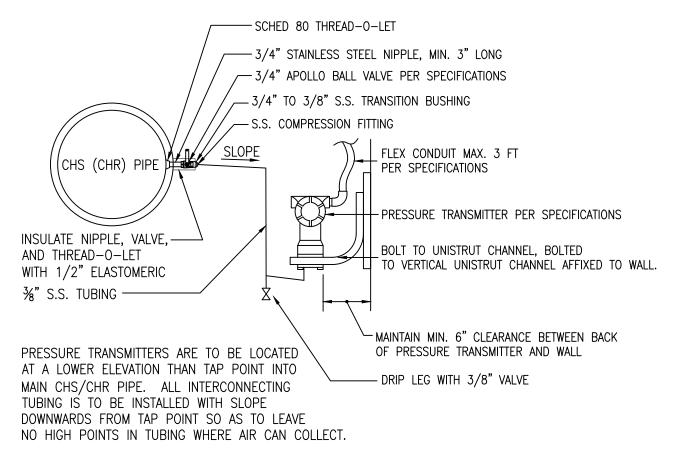


PARALLEL CONNECT HEAT EXCHANGER PIPING



CROSS CONNECT HEAT EXCHANGER PIPING

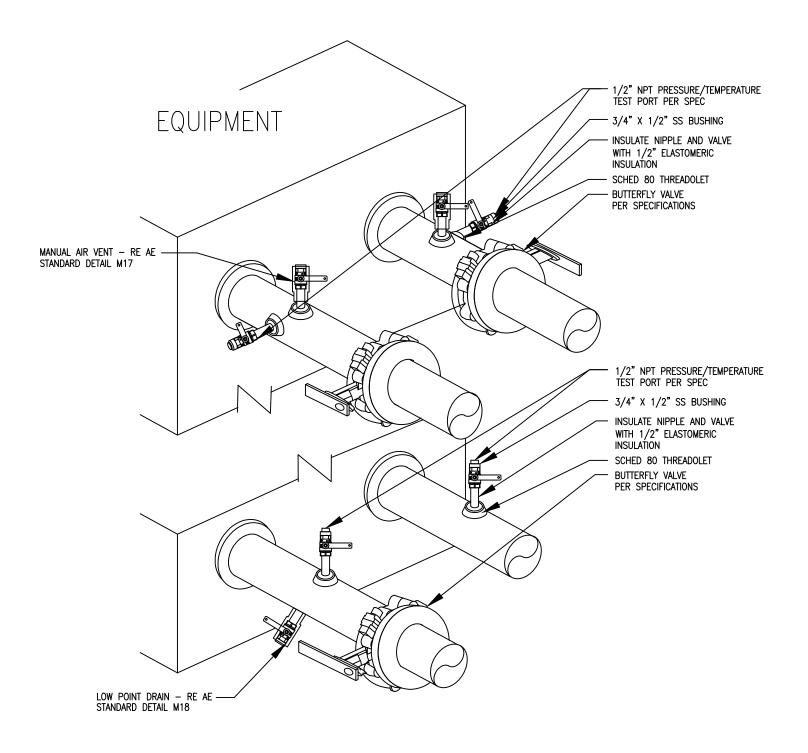
12/9/2020 SCALE: M19A N.T.S.



DO NOT INSTALL PRESSURE TRANSMITTERS OVER FIBEROPTIC PANELS, OR ELECTRICAL OR OTHER EQUIPMENT WHICH CAN BE DAMAGED BY WATER.

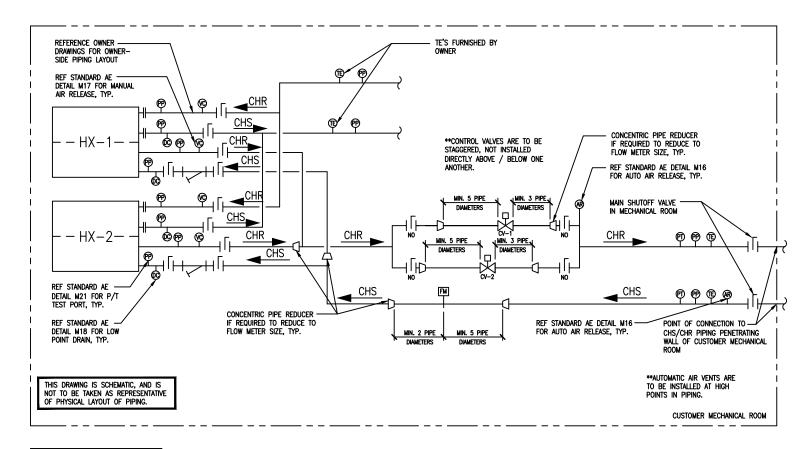
12/9/2020

PRESSURE TRANSMITTER



PRESSURE / TEMPERATURE (P/T) TEST PORT ISOMETRIC





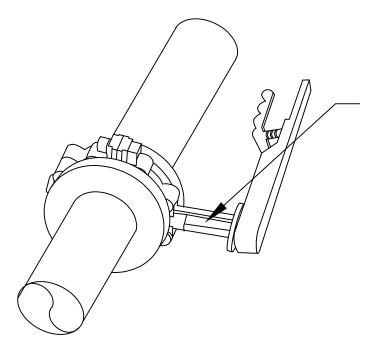
LEGEND	
41-	BUTTERFLY VALVE
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CONTROL VALVE
→	PIPE REDUCER

AUSTIN ENERGY INSTRUMENT AND CONTROLS SCHEDULE			
SYMBOL	FUNCTION	PIPING REQUIREMENTS	
AR	AUTO AIR RELEASE	REFERENCE AE STANDARD DETAIL #16	
cv	CONTROL VALVE	SEE VALVE SCHEDULE AND SPECIFICATIONS	
DC	DRAIN CONNECTION	REFERENCE AE STANDARD DETAIL #18	
FT	FLOW TRANSMITTER	IN-LINE, FLANGED; REFERENCE DRAWINGS FOR SIZE	
PP	PRESSURE/TEMPERATURE TEST PORT (PETE'S PLUG)	REFERENCE AE STANDARD DETAIL #21	
PT	PRESSURE TRANSMITTER	REFERENCE AE STANDARD DETAIL #20	
TE	TEMPERATURE ELEMENT	3/4" NPT WELD-O-LET, THERMOWELL	
VC	VENT CONNECTION / MANUAL AIR RELEASE	REFERENCE AE STANDARD DETAIL #17	

REFER TO DESIGN DRAWINGS AND SPECIFICATIONS FOR PRECISE MANUFACTURER AND MODEL NUMBERS

CHILLED WATER PIPING SCHEMATIC





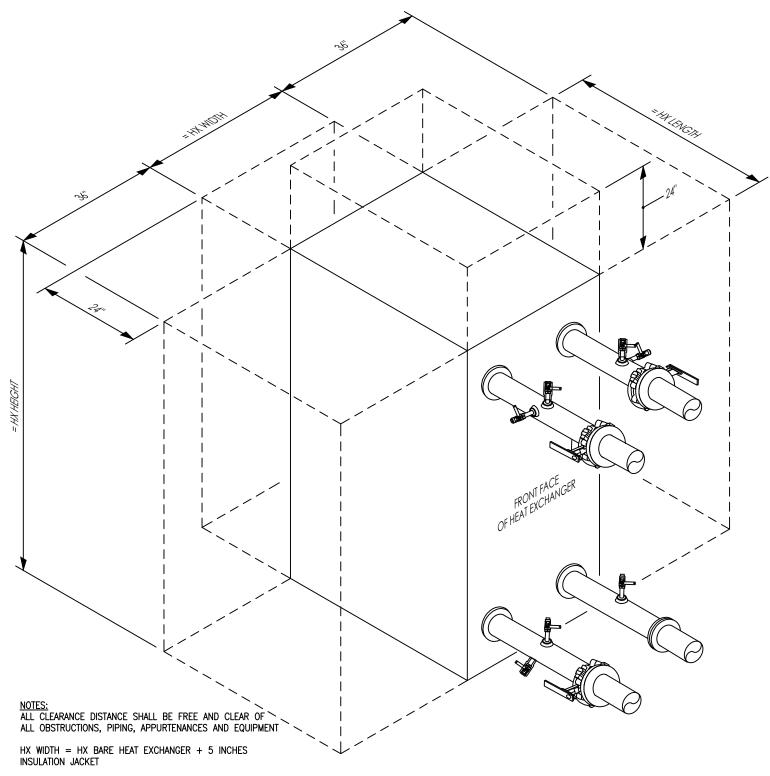
IN HORIZONTAL PIPE, INSTALL MANUAL VALVES WITH SHAFT IN HORIZONTAL POSITION, SHAFT TO EXTEND BEYOND INSULATION

NOTE: MANUAL VALVE HANDLES SHALL OPEN SUCH THAT BOTTOM OF DISC OPENS IN DIRECTION OF FLOW.

08/11/14

VALVE ORIENTATION DETAIL



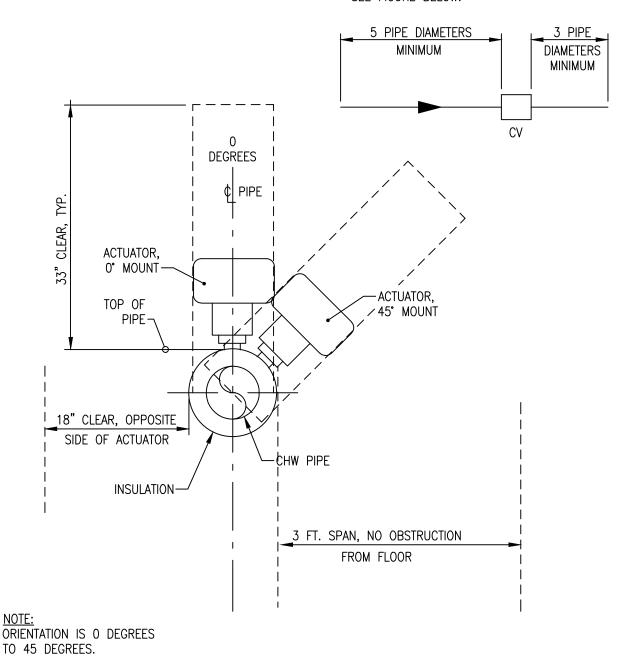


HX HEIGHT = HX FLOOR TO UPPER BEAM HX LENGTH = HX REAR HORIZONTAL BEAM + FRONT 2.5 INCHES INSULATION JACKET

HEAT EXCHANGER CLEARANCES



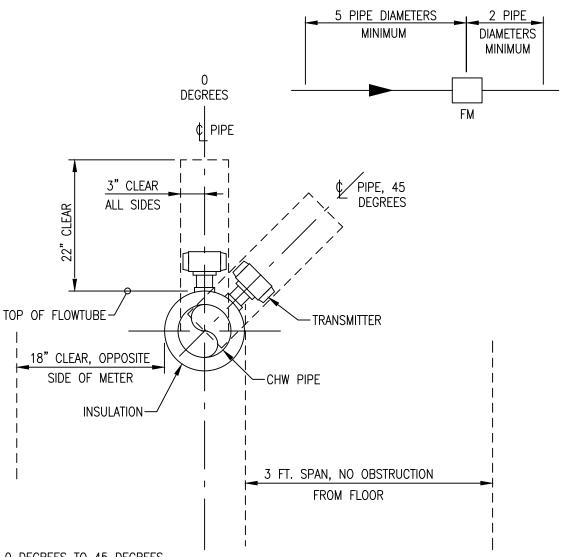
NOTE: CONTROL VALVE REQUIRES STRAIGHT RUN OF PIPE UPSTREAM AND DOWNSTREAM. SEE FIGURE BELOW.



<u>ELEVATION VIEW — HORIZONTAL ORIENTATION</u>

CONTROL VALVE ACCESS CLEARANCE M27 N.T.S.

NOTE: FLOW METER REQUIRES STRAIGHT RUN OF PIPE UPSTREAM AND DOWNSTREAM. SEE FIGURE BELOW.



1. ORIENTATION IS 0 DEGREES TO 45 DEGREES.

12/9/2020

NOTE:

2. INSTALL GROUNDING STRAPS. ONCE FLOW METER IS INSTALLED, GROUNDING STRIPS SHALL BE INSTALLED BEFORE WELDING IS DONE ON PIPE.

ELEVATION VIEW - HORIZONTAL ORIENTATION

FLOW METER ACCESS CLEARANCE M28 N.T.S.

AE FIBER PANEL

MIN PANEL SIZE 20"x20"x8" **

** SIZE DEPENDENT ON FIBER CONDUIT ENTRY LOCATIIO SIZE SHOWN FOR REF. ONLY

AE CONTROL PANEL

36"x36"x12"



IF CDL PACKAGE PURCHASED

AE PRESSURE TRANSMITTER LOCATION

24"x24"X20"

NOTES:

- 1. ALL PANELS AND TRANSMITTERS MOUNTED ON THE WALL SHALL HAVE AT LEAST A MINIMUM OF 12" OF CLEARANCE AROUND ALL 4 SIDES OF PANEL/TRANSMITTER LOCATION.
- 2. THE CONTROL PANEL SHALL HAVE A MINIMUM OF 54" CLEARANCE IN FRONT OF THE CONTROL PANEL INCLUDING THE 12" CLEARANCE ON EITHER SIDE.
- 3. ALL OTHER PANELS AND TRANSMITTER LOCATION SHALL HAVE A MINIMUM OF 24" CLEARANCE IN FRONT OF PANEL/TRAMITTER LOCATION INCLUDING THE CLEARANCE ON EITHER SIDE.
- 4. NO PANEL SHALL BE DESIGNED TO BE MOUNTED BEHIND OR IN FRONT OF HEAT EXCHANGERS OR ANY OTHER PIECE OF EQUIPMENT UNLESS EQUIPMENT IS AT LEAST 54" FROM FRONT PANEL OR TRANSMITTER LOCATION..
- 5. ALL PANELS SHALL BE MOUNTED ON VERTICAL UNI-STRUCT CONNECTED TO THE WALL. SEE SPECIFICATION AE SS230900
- 6. NO CUSTOMER PIPING OR CONDUITS SHALL RUN IN BETWEEN OR WITHIN 12" ON ALL 4 SIDES OF THE PANELS.
- 7. PANEL AND TRANSMITTER LAYOUT IS FOR REFERENCE OF SIZE ONLY AND DOES NOT INDICATE ACTUAL LOCATION OF PANELS OR TRANSMITTERS. ACTUAL PANEL LAYOUT WILL BE DEPENDENT ON A PER CUSTOMER BASIS.
- 8. DURING CONSTRUCTION CONTROL PANEL SHALL BE PROTECTED TO PREVENT DUST AND PARTICLES FRIOM ENTERING CONTROL AND PROTECTED FROM ANY OTHER PHYSICAL DAMAGE OCCURRING TO THE CONTROL PANEL.

AUSTIN ENERGY
ON-SITE ENERGY RESOURCES

CONTROL PANEL & TRANSMITTER CLEARANCES

RECORD COPY SIGNED BY
MICHELE BRYANT 12/9/2020

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.

standard no.
M-29