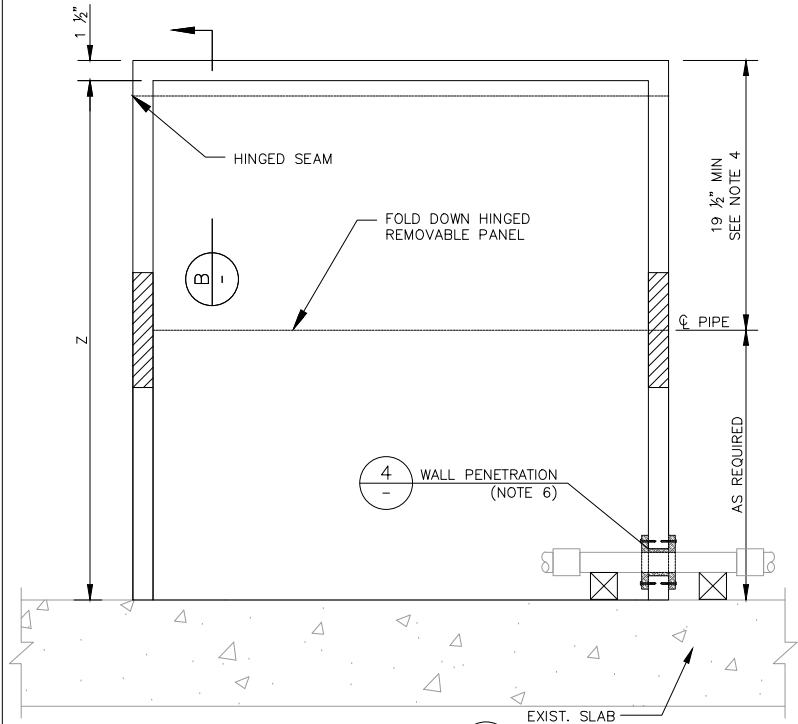
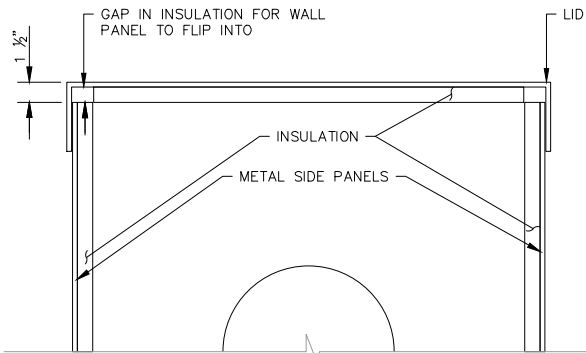


PLAN – AUTOMATIC CONTROL VALVE  
INSULATED ENCLOSURE (HOT BOX)

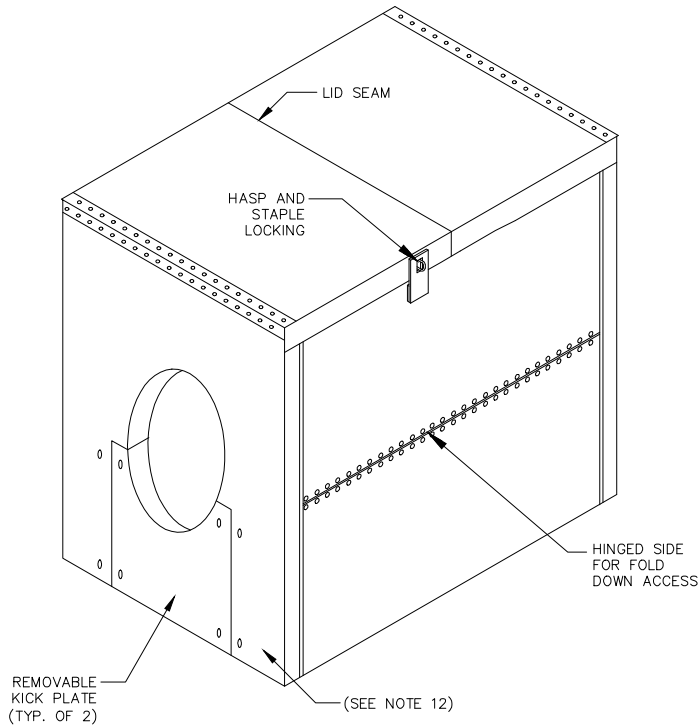
SCALE: NTS



SECTION A  
SCALE: NTS

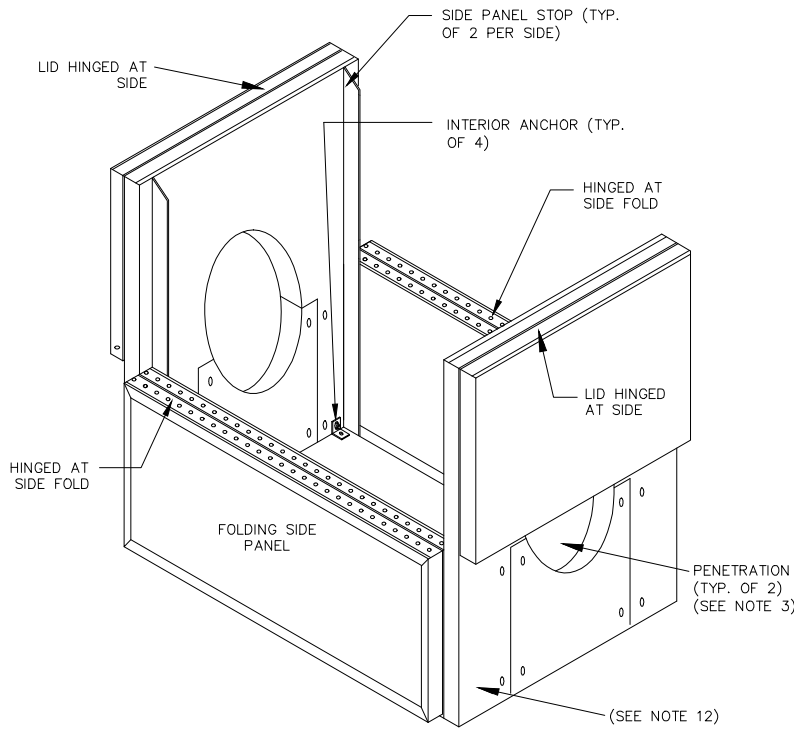


SECTION B  
SCALE: NTS



ISOMETRIC – CLOSED POSITION

SCALE: NTS



ISOMETRIC – OPEN POSITION

SCALE: NTS

CLA–VALVE DIMENSIONS – DIAMETER (INCHES)	INSULATED ENCLOSURE DIMENSIONS*		
	X (INCHES)**	Y (INCHES)***	Z (INCHES)****
8	41	44	55
10	46	48	57
12	50	52	60
14	55	57	64
16	57	60	64

\*CONTRACTOR IS TO VERIFY DIMENSIONS BEFORE ORDERING

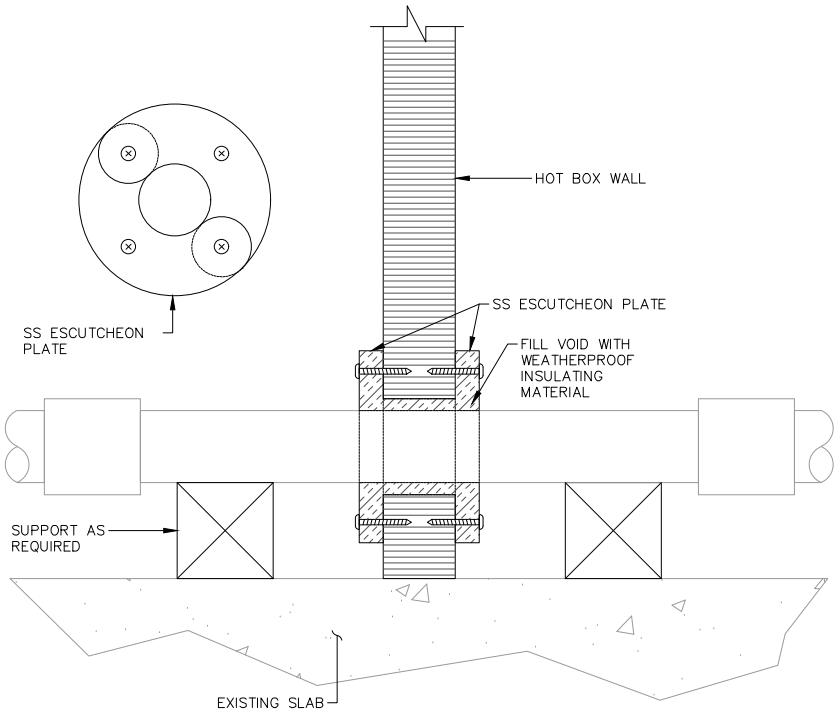
\*\*DIMENSIONS BASED ON 8" FROM CENTER OF FLANGE TO INNER EDGE OF HOT BOX

\*\*\*DIMENSIONS BASED ON 12" FROM EDGE OF VALVE BODY TO INNER EDGE OF HOT BOX

\*\*\*\*DIMENSIONS BASED ON 24" FROM CENTER LINE OF VALVE TO TOP OF CONCRETE

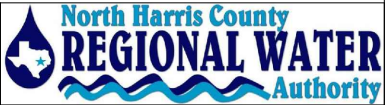
NOTES:

1. PROVIDE HOT BOX ALUMINUM ENCLOSURE PER TECHNICAL SPECIFICATION SECTION 15959 – "AUTOMATIC CONTROL VALVE INSULATED ENCLOSURE (HOT BOX)."
2. ANCHOR BOX IN PLACE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. CENTER PENETRATION FOR PIPE HORIZONTALLY IN SIDE OF BOX. SIZE DIAMETER OF PENETRATION TO FIT THE PIPE. OPENING SHOULD BE O.D. + 1/8" MAXIMUM. FILL SPACE BETWEEN PENETRATION HOLE AND PIPE WITH WEATHERPROOF INSULATING MATERIAL.
4. FIELD VERIFY DIMENSIONS OF ALL VALVES AND APPURTENANCES PRIOR TO ORDERING HOT BOXES. PROVIDE A MINIMUM 4-INCH CLEARANCE BETWEEN THE INTERIOR OF THE HOT BOX AND ALL INTERNAL COMPONENTS INCLUDING LIMIT SWITCHES, OR POSITION INDICATORS AT POINT OF HIGHEST EXTENSION, ELECTRICAL CONDUIT, JUNCTION BOXES, AND PILOT TUBING.
5. ENCLOSURES SHALL BE DESIGNED TO SUPPORT A MINIMUM VERTICAL LOAD OF 100 POUNDS PER SQUARE FOOT (PSF).
6. CONTRACTOR TO POSITION CONDUITS TO FALL WITHIN THE LIMITS OF THE HOT BOX. FIELD PENETRATIONS OF THE SIDE OF THE HOT BOX IS TO BE AVOIDED. ANY WALL PENETRATION IS TO BE APPROVED BY THE AUTHORITY, AND INCLUDE A 316 STAINLESS STEEL ESCUTCHEON PLATE. SEE DETAIL ON THIS SHEET.
7. FIELD PENETRATIONS OF THE SIDE OF THE HOT BOX BY ALL-THREAD RESTRAINTS ARE TO BE AVOIDED. AS APPROVED BY THE AUTHORITY, WHEN ALL-THREAD RESTRAINTS PENETRATE THE HOT BOX, THE HOT BOX SHALL BE DRILLED AND THE VOID BETWEEN THE ALL-THREAD RESTRAINT AND THE BOX WILL BE FILLED WITH WEATHERPROOF INSULATION MATERIAL.
8. ALL INSULATION INSTALLED ON THE INTERIOR OF THE HOT BOX SHALL BE GLUED TO THE ALUMINUM WALLS. HAVE ALL SEAMS TAPED TO PREVENT GAPS PER TECHNICAL SPECIFICATION SECTION 15959 – "AUTOMATIC CONTROL VALVE INSULATED ENCLOSURE (HOT BOX)."
9. FOR EACH HOT BOX PROVIDE A 120 VAC RECEPTACLE, WIRING DEVICES, CONDUIT, WIRE AND RELATED ITEMS TO SERVICE THE ELECTRIC HEATER AND TEMPERATURE SWITCH (THERMOSTAT). THESE WILL BE PURCHASED AND INSTALLED PER TECHNICAL SPECIFICATION SECTION 15959 – "AUTOMATIC CONTROL VALVE INSULATED ENCLOSURE (HOT BOX)." SEE REF. NO. 113 AND 114.
10. AN ELECTRIC HEATER IS TO BE SUPPLIED FOR EVERY HOT BOX THAT IS INSTALLED AT THE WATER RECEIVING FACILITIES (WRF). PROVIDE ELECTRIC HEATER PER TECHNICAL SPECIFICATION SECTION 15959 – "AUTOMATIC CONTROL VALVE INSULATED ENCLOSURE (HOT BOX)."
11. A THERMOSTAT FOR CONTROLLING THE HEATER WILL BE INSTALLED WITH EACH HEATER PER TECHNICAL SPECIFICATION SECTION 15959 – "AUTOMATIC CONTROL VALVE INSULATED ENCLOSURE (HOT BOX)." SEE REF. NO. 113 AND 114.
12. ALL ELECTRICAL/INSTRUMENTATION PENETRATIONS IN THE HOT BOX MUST OCCUR ON THE SIDE OF THE HOT BOX WITH THE REMOVABLE KICK PLATE AND TO EITHER SIDE OF THE REMOVABLE KICK PLATE.



HOT BOX WALL  
PENETRATION DETAIL

SCALE: NTS



AUTOMATIC CONTROL  
VALVE  
INSULATED ENCLOSURE  
(HOT BOX) DETAIL

APPROVED BY:

*Shanley*

DESIGN MANAGER

EFF. DATE:  
12/22/2020

REF. NO.  
70