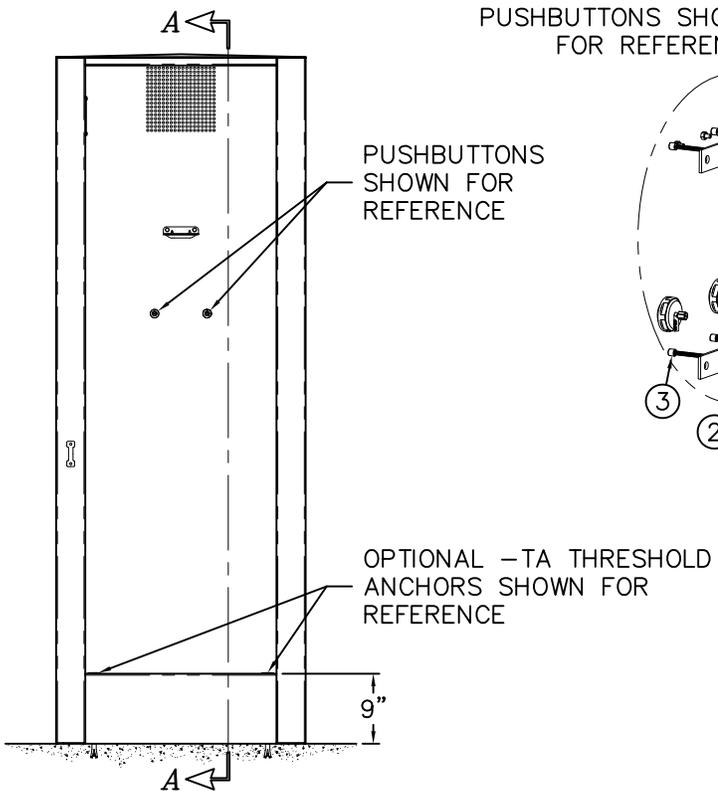
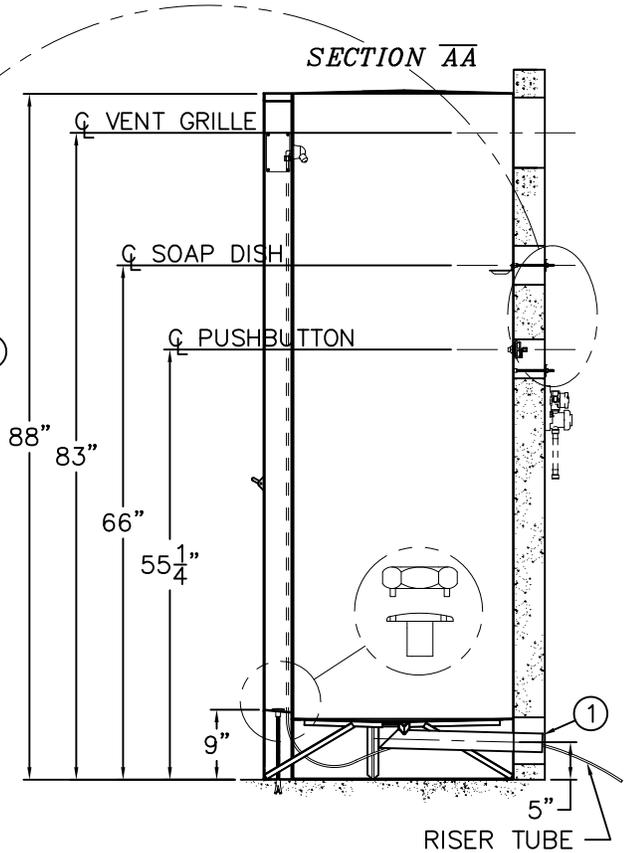
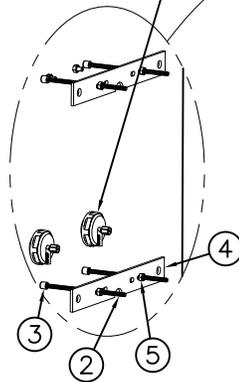


REFERENCE DRAWINGS			
ASSEMBLIES	NUMBERS		
SHOWERHEAD	9970-000-003		
IC WASTE OUTLET	9925-116-002		
-SW / -MT SLEEVE	9925-262-001		
-SR SHOWER RECEPTOR	9925-148-001		
MODEL No.	A	B	C
1730	30"	15"	20 1/4"
1732	32"	16"	22 1/4"
1736	35 3/4"	17 7/8"	26"

*REQUIRES PROVISION OF TEMPERED SUPPLY FROM AN APPROPRIATE CERTIFIED THERMOSTATIC MIXING VALVE PROVIDED BY OTHERS, PER APPLICABLE CODE.



PUSHBUTTONS SHOWN FOR REFERENCE



INSTALLATION INSTRUCTIONS:

- A. ROUGH-IN FOR THE FOLLOWING:
2-3/8" OD PLAIN END OUTLET ① (STANDARD)
VALVE 1/2" SUPPLY INLET(S)
THRU WALL OPENINGS FOR VENT, GRILLE OR OTHER
- B. PRIOR TO INSTALLATION OF CABINET SHOWER,
MOUNT PUSHBUTTON ASSEMBLY / ASSEMBLIES OR
OTHER ACCESSORIES TO CABINET.
- C. POSITION CABINET SHOWER AGAINST CHASE WALL
AND MAKE UP WASTE CONNECTION FROM CHASE
SIDE.

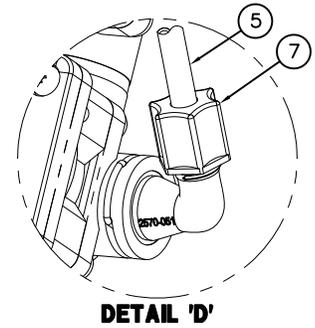
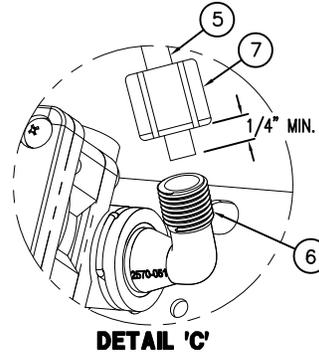
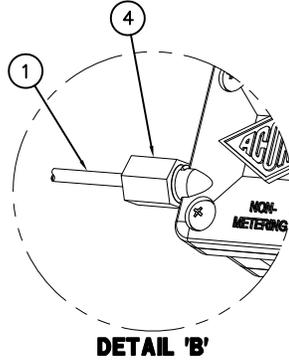
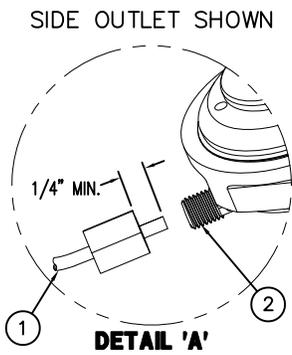
- D. FROM CHASE SIDE, INSERT MOUNTING STUDS ②
INTO NUTS ③ ON BACK OF SHOWER PANEL.
THREAD BACK PLATES ④ ONTO STUDS AND FIX
WITH WASHERS AND NUTS ⑤ PROVIDED.
NOTE: DO NOT EXCEED 6.5 FT/LBS MAX TORQUE
ON MOUNTING NUTS.

NOTE: SHOWERHEAD 1/4" OD RISER TUBING CONNECTED AT THE FACTORY. REMAINDER OF TUBING IS COILED AND TAPED TO THE SIDE OF THE CABINET FOR PROTECTION.



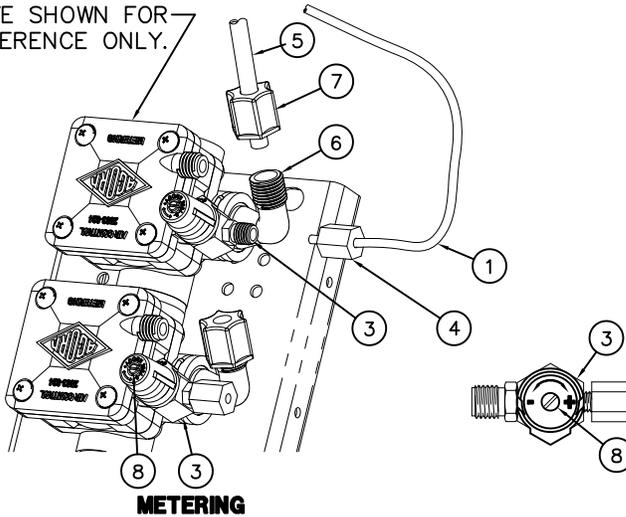
ACORN ENGINEERING COMPANY
P.O. BOX 3527 Industry, CA 91744
15125 Proctor Ave Industry, CA 91746
(626) 336-4561 FAX (626) 961-2200

TITLE CABINET SHOWERS, 1730, 1732, 1736 NEW STYLE		
MANUFACTURE DATE FEBRUARY 1996 TO PRESENT	DATE ISSUED 02/01/96	DRAWING NUMBER 9925-111-003
	DATE REVISED 07/09/14	



NOTE: PENAL-WARE & ECO-RAIN SHOWER FIXTURES USE 1/4" O.D. RISER TUBING WHILE OTHER SHOWER-WARE FIXTURES USE 3/8" O.D. TUBING.

AIR-CONTROL O3M-MA2 VALVE SHOWN FOR REFERENCE ONLY.



TIMING IS ADJUSTABLE FROM 5 TO 60 SECONDS AND IS ACCOMPLISHED BY ROTATING TIMING SCREW (8). TURNING THE TIMING SCREW CLOCKWISE INCREASES METERING TIME WHILE TURNING THE SCREW COUNTERCLOCKWISE DECREASES METERING TIME.

REFERENCE DRAWINGS	
REPAIR PARTS	DRAWING
VALVE BODY	9955-006-003
CHECKSTOP	9956-040-003
PUSHBUTTON/ESCUTCHEON	9957-300-001
METERING SERVOMOTOR	9955-000-003

NOTE:
 1 ALL TUBING SHOULD BE CUT SQUARE AND BE FREE OF BURRS OR DEFORMITIES TO ENSURE A WATER TIGHT CONNECTION.
 2 EXTEND TUBING AT LEAST 1/4" BEYOND FERRULE NUT AND INSERT TUBING INTO CONNECTION OPENING BEFORE TIGHTENING.
 3 TUBING SHOULD BE FREE OF KINKS TO ENSURE PROPER OPERATION.
 4 MAXIMUM RECOMMENDED WORKING WATER PRESSURE IS 100 PSI; TEMPERATURE IS 130° F; OUTLET TEMPERATURE IS RECOMMENDED AT A MAXIMUM OF 105° F.
 WARNING:
 PRIOR TO MAKING INSTALLATION, SUPPLY LINES MUST BE FLUSHED OF ALL FOREIGN MATERIAL SUCH AS PIPE DOPE, CHIPS, SOLDER, ETC. VALVE MUST BE DRAINED PRIOR TO BEING SUBJECTED TO FREEZING TEMPERATURES. MAXIMUM RECOMMENDED OUTLET WATER TEMPERATURE IS 105° F.

INSTALLATION INSTRUCTIONS:

- A- MOUNT FIXTURE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B- ASSEMBLE PUSHBUTTONS AND OR SHOWER NOZZLES TO FIXTURE IF REQUIRED.
- C- CONNECT 1/8" O.D. POLYETHYLENE AIR LINE (1) TO PUSHBUTTON (2) AND VALVE TIMER ASSEMBLY (3). SEE DETAILS 'A' & 'B'. HAND TIGHTEN FERRULE NUT (4) PROVIDED.

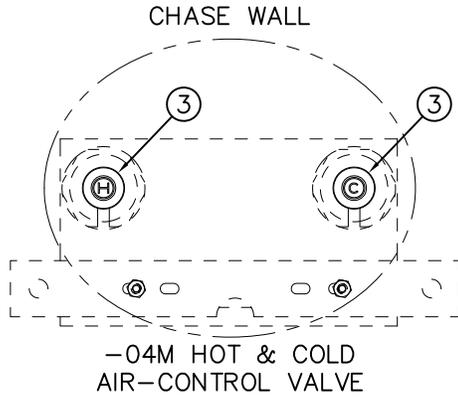
- D- CONNECT SHOWER RISER (5) TO VALVE ASSEMBLY ELBOW (6). SEE DETAIL 'C' AND 'D'. HAND TIGHTEN FERRULE NUT (7) PROVIDED.
- E- AFTER THOROUGHLY FLUSHING SUPPLY LINES, MAKE UP CONNECTIONS TO VALVE ASSEMBLY INLET(S) 1/2" NPT OR 1/2" NPS FLEX HOSE AS REQUIRED.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE HAND OPERATED, AIR-CONTROL VALVE SHOWER CONNECTIONS		
	MANUFACTURE DATE OCTOBER 2010 TO PRESENT	DATE ISSUED 10/28/10	DRAWING NUMBER 9900-006-003
		DATE REVISED	

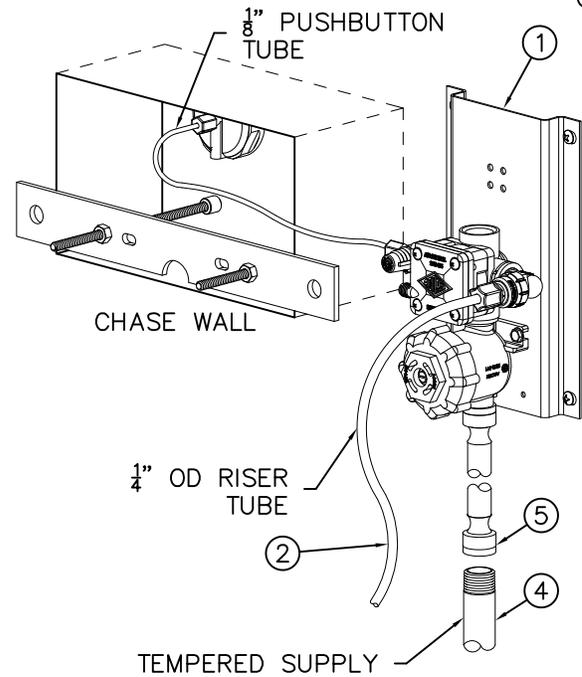
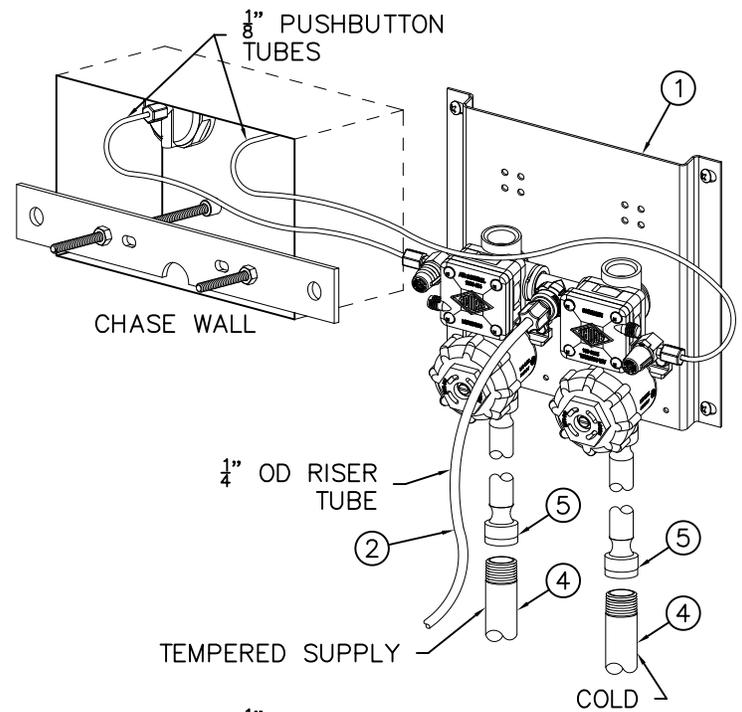
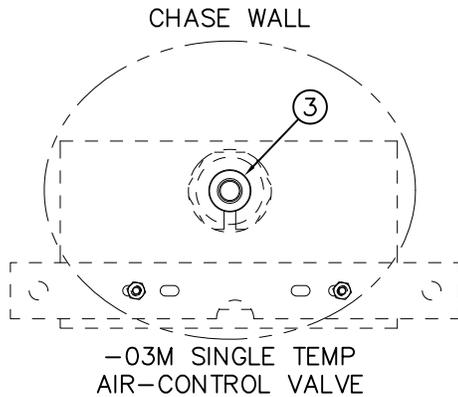


REFERENCE DRAWINGS

AIR-CONTROL CONNECT 9900-006-003



NOTE:
FOR -8MV METERING VALVE IN RISER OPTION, METERING VALVE INLET TO BE CONNECTED TO -8 T/P VALVE RISER.



INSTALLATION INSTRUCTIONS:

- A-DETERMINE LOCATION OF VALVE ① AND INSTALL SUPPORT FRAMING IF REQUIRED.
- B-MOUNT AIR-CONTROL VALVE ① AND MAKE UP CONNECTIONS TO VALVE RISER ② OUTLET AND SHOWER HEAD. NOTE: VALVE MAY BE REMOTELY LOCATED UP TO 10 FEET FROM PUSHBUTTON ③ OR SHOWER HEAD.

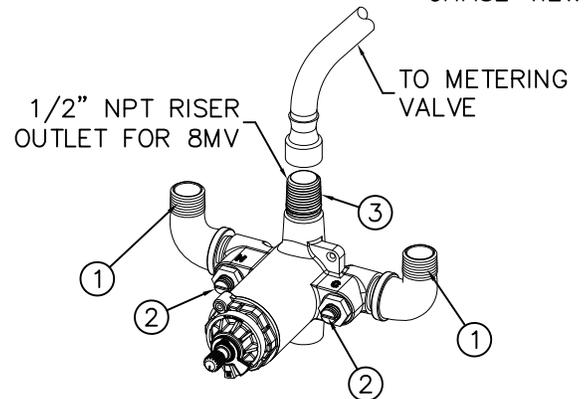
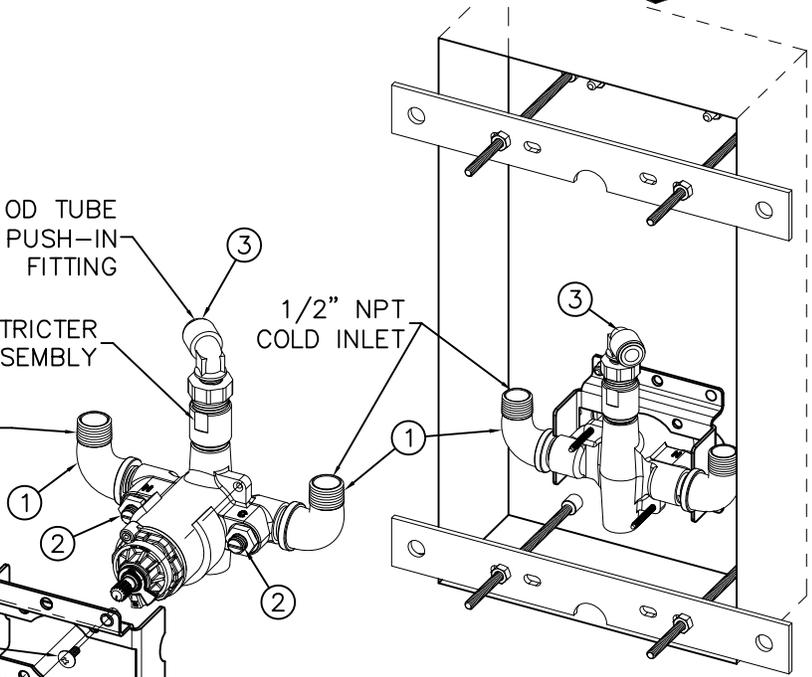
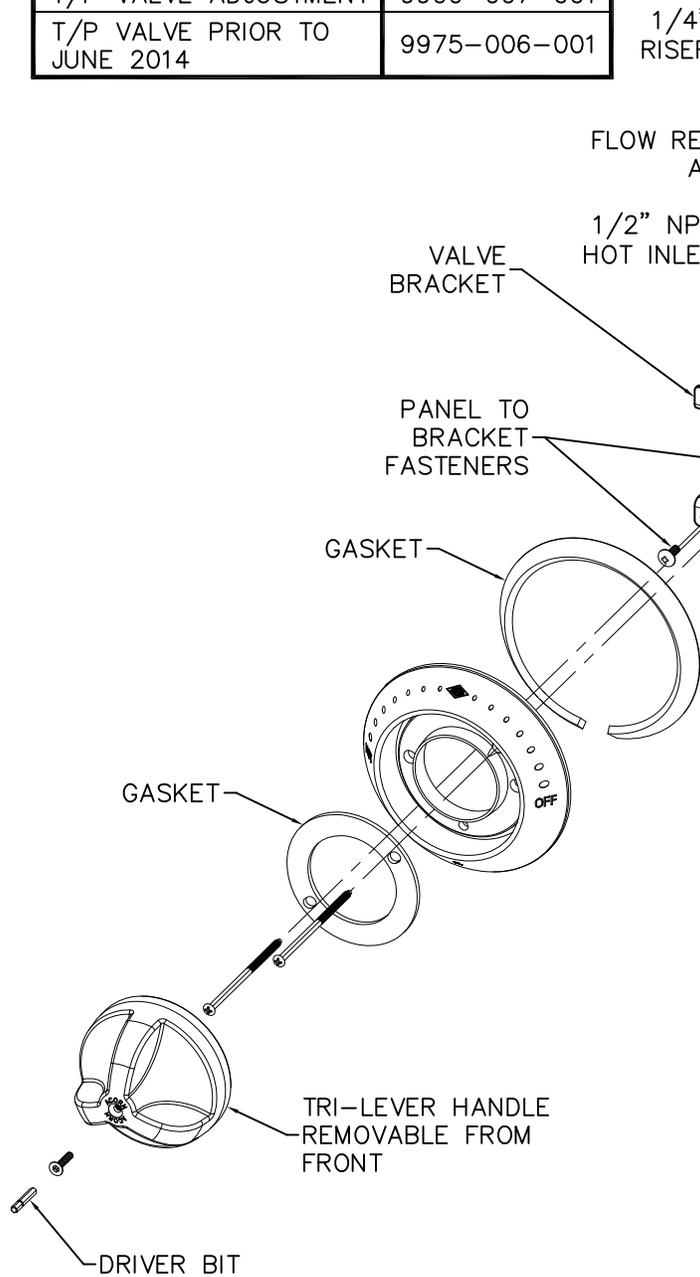
- D-AFTER THOROUGHLY FLUSHING SUPPLY LINE ④, CONNECT SUPPLY TO 1/2" NPS FLEX HOSE VALVE INLET(S) ⑤. NOTE: SUPPLY INLET WILL ACCOMMODATE 1/2" NPT MALE ADAPTER.
- E-MOUNT PUSHBUTTON TO VALVE ESCUCHEON ⑥ AND MAKE UP CONNECTIONS TO 1/8" OD AIR LINE AND VALVE METERING MOTOR.

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TITLE CABINET SHOWER VALVE -AIR-CONTROL		
MANUFACTURE DATE AUGUST, 2013 TO PRESENT	DATE ISSUED 08/14/13	DRAWING NUMBER 9925-125-001
	DATE REVISED	



REFERENCE DRAWINGS	
AIR-CONTROL CONNECT	9900-006-003
METERING VALVE	9925-125-001
T/P VALVE (SHOWN)	9975-005-002
T/P VALVE ADJUSTMENT	9900-007-001
T/P VALVE PRIOR TO JUNE 2014	9975-006-001

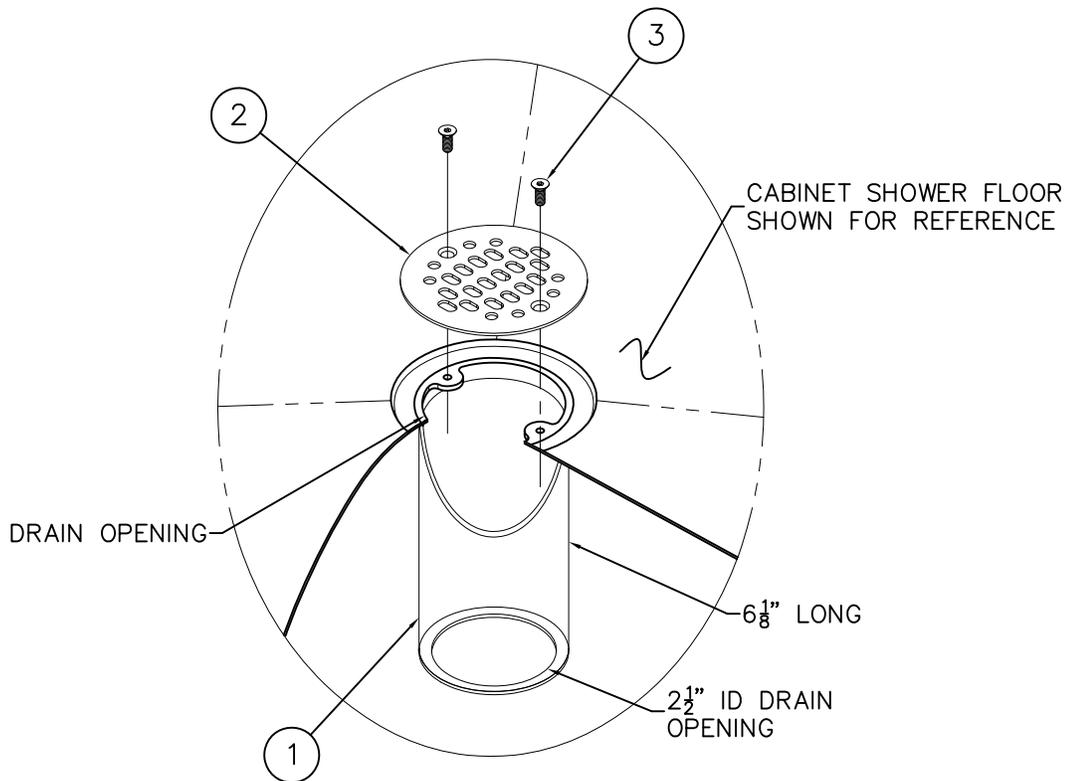
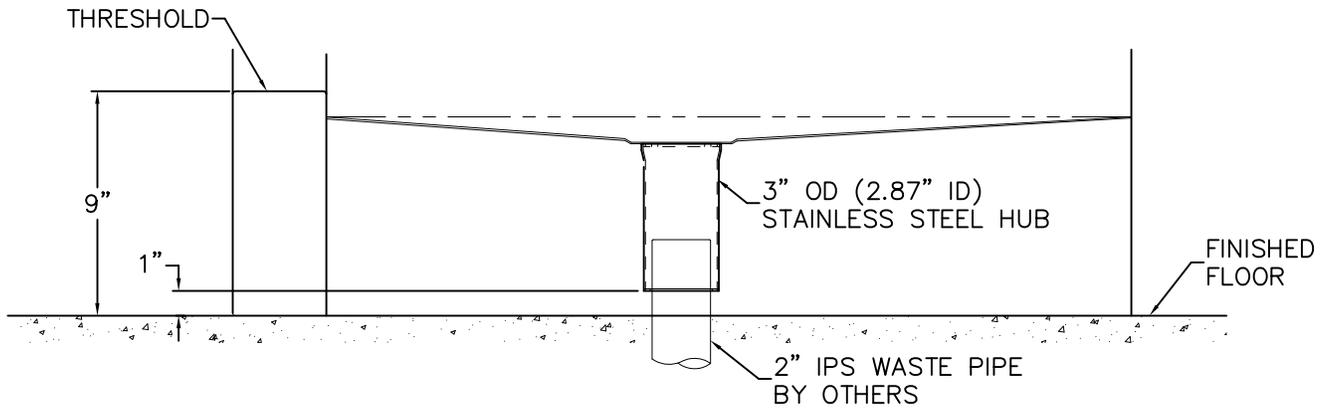


8MV ASSEMBLY

INSTALLATION INSTRUCTIONS:

- A-FLUSH SUPPLY INLETS THOROUGHLY BEFORE MAKING UP FLEXIBLE HOSE CONNECTIONS TO VALVE 1/2" NPT SUPPLY INLETS (1). NOTE: VALVE INCLUDES INTEGRAL CHECKSTOPS (2).
- B-CONNECT 1/4" OD RISER TUBING FROM SHOWER HEAD TO VALVE RISER OUTLET (3).
 *FOR OPTIONAL 8MV METERING VALVE IN RISER, VALVE OUTLET CONNECTS TO METERING VALVE 1/2" NPS FLEXIBLE SUPPLY INLET.
- C-REFER TO VALVE INSTALLATION INSTRUCTIONS FOR FINAL FIELD TEMPERING ADJUSTMENTS.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE CABINET SHOWER, TEMPURTURE/PRESSURE BALANCING VALVE		
	MANUFACTURE DATE AUGUST, 2013 TO PRESENT	DATE ISSUED 08/15/13 DATE REVISED 07/11/14	DRAWING NUMBER 9925-126-001



A--THE INSIDE CAULK DRAIN ① IS WELDED TO THE CABINET SHOWER. CAULK WASTE IS PROVIDED STANDARD ON ALL -FA FRONT ACCESS CABINET SHOWERS.

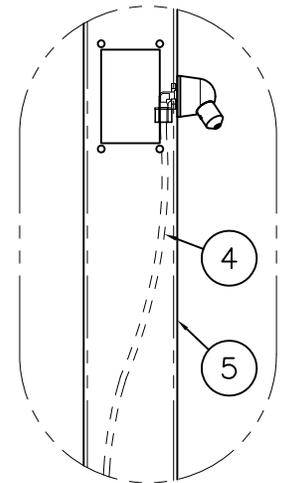
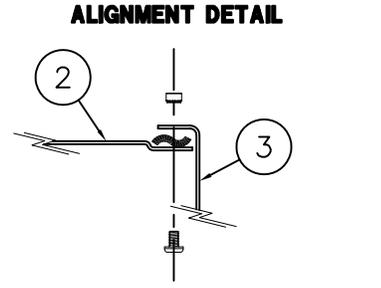
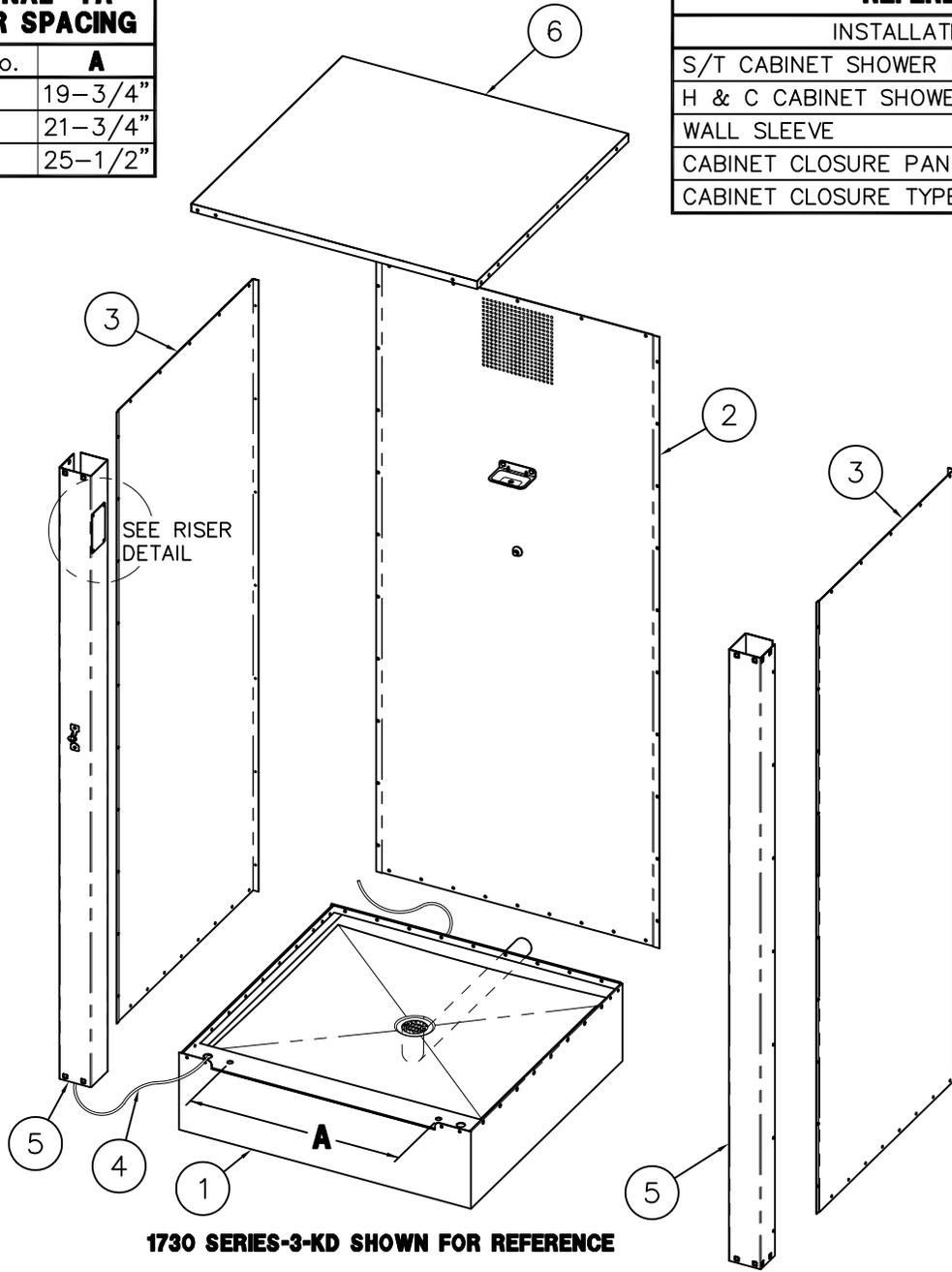
B--POSITION CABINET OVER WASTE PIPE. THROUGH DRAIN OPENING, MAKE UP CAULK WASTE JOINT.
 C--FROM INSIDE OF CABINET, INSTALL STRAINER ② WITH (2) #10-32 SCREWS ③ PROVIDED.

 ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE CABINET SHOWER SUFFIX OPTION (-IC) 2" IPS CAULK DRAIN INSTALLATION		
	MANUFACTURE DATE FEBRUARY 1999 TO PRESENT	DATE ISSUED 02/16/99 DATE REVISED 08/19/13	DRAWING NUMBER 9925-116-002



OPTIONAL -TA ANCHOR SPACING	
MODEL No.	A
1730-KD	19-3/4"
1732-KD	21-3/4"
1736-KD	25-1/2"

REFERENCE DRAWINGS	
INSTALLATION	DRAWING
S/T CABINET SHOWER INSTALLATION	9925-111-003
H & C CABINET SHOWER INSTALLATION	9925-112-001
WALL SLEEVE	9925-262-001
CABINET CLOSURE PANEL INST.	9925-119-001
CABINET CLOSURE TYPES	9925-117-001



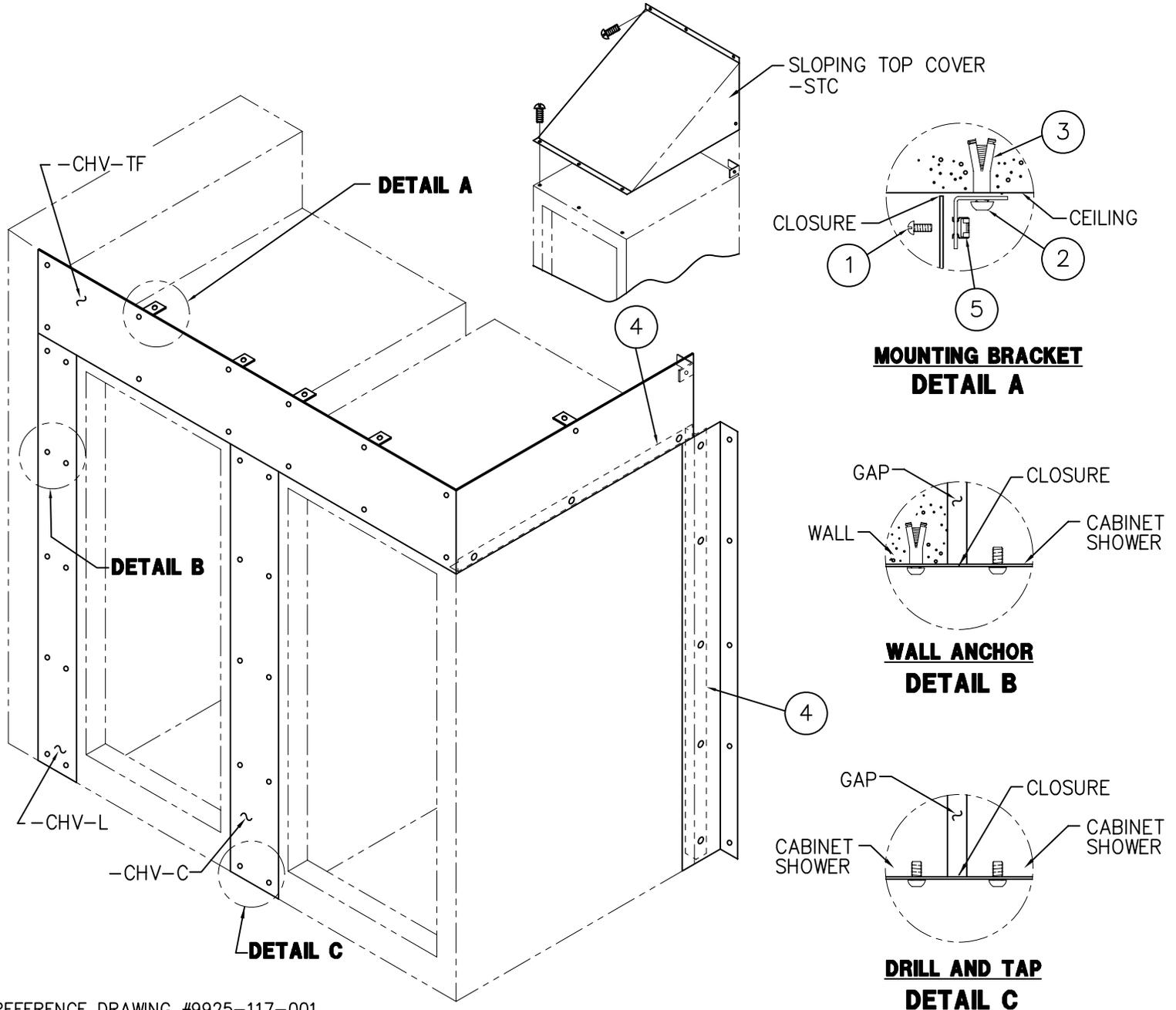
REAR MOUNT FIXTURE RISER ROUTES THROUGH COLUMN TO RECEPTOR AND OUT TO CHASE

INSTALLATION INSTRUCTIONS:

- A- LOCATE RECEPTOR (FLOOR PAN) ① CLOSE TO POINT OF INSTALLATION.
- B- CAULK BACK PANEL ② AND BOLT LOOSELY TO RECEPTOR ①.
- C- CAULK SIDE PANELS ③. BOLT LOOSELY TO RECEPTOR ① AND BACK PANEL ②. SEE ALIGNMENT DETAIL.
- D- THREAD 1/4" OD RISER TUBE ④ THROUGH COLUMN ⑤, RECEPTOR OPENING ① AND OUT CHASE SIDE.

- E- CAULK CORNER POSTS ⑤ & BOLT LOOSELY TO RECEPTOR ① AND SIDE PANELS ③.
- F- CAULK AND SET TOP PANEL ⑥ IN PLACE AND THEN FASTEN TO ASSEMBLY LOOSELY.
- G- PLUMB FIXTURE AND TIGHTEN ALL SCREWS AND BOLTS.
- H- SEE APPROPRIATE DRAWINGS FOR OTHER OPTIONS AND VALVE INSTALLATION.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE KD KNOCK-DOWN CABINET SHOWERS, *1730-KD, *1732-KD, *1736-KD	
	MANUFACTURE DATE APRIL 1972 TO PRESENT	DATE ISSUED 03/01/90 DATE REVISED 03/15/10



**MOUNTING BRACKET
DETAIL A**

**WALL ANCHOR
DETAIL B**

**DRILL AND TAP
DETAIL C**

REFERENCE DRAWING #9925-117-001

INSTALLATION INSTRUCTIONS

CLOSURES ARE PROVIDED WITH HOLE PUNCHING AND SHOULD BE USED AS A TEMPLATE FOR MARKING SCREW LOCATIONS ON CABINET FOR FIELD DRILLING AND TAPPING. TAMPER RESISTANT #10-32 x 1/2" STAINLESS STEEL SCREWS (1) ARE PROVIDED WHERE CLOSURES ATTACH TO CABINET OR A BRACKET. TAMPER RESISTANT #1/4"-20 x 1" STAINLESS STEEL SCREWS (2) ARE PROVIDED WHERE BRACKETS ATTACH TO WALL OR CEILING. WALL OR CEILING ANCHORS (3) ARE PROVIDED BY THE INSTALLER.

WHERE CLOSURES ATTACH TO TOP AND SIDES OF CABINET THE FACTORY PROVIDES AN INTEGRAL ANGLE (4) TO BE DRILLED & TAPPED IN THE FIELD.

AN 'L' CLIP FASTENER (5) IS SUPPLIED WHERE CLOSURES ATTACH TO BACK WALL OR CEILING. WHEN FIELD DIMENSIONS ARE REQUIRED, THEY MUST BE FURNISHED IN WRITING BY THE CUSTOMER BEFORE FABRICATION BEGINS. WHEN ORDERING PROVIDE FACTORY WITH GAP DIMENSIONS, CLOSURE TYPE AND CABINET SHOWER MODEL NUMBER.

SEE ACORN CATALOG FOR AVAILABLE CLOSURE STYLES.

<p>ACORN ENGINEERING COMPANY P.O. BOX 3527 INDUSTRY, CA. 91744 (626) 336-4561 FAX (626) 961-2200</p>	<p>TITLE CABINET SHOWER CLOSURES</p>		
	<p>MANUFACTURE DATE</p> <p>JANUARY, 1985</p> <p>TO PRESENT</p>	<p>DATE ISSUED</p> <p>1/12/96</p>	<p>DRAWING NUMBER</p> <p>9925-119-001</p>
		<p>DATE REVISED</p> <p>02/03/09</p>	



SPECIFY:

- 1730 30" CABINET
- 1732 32" CABINET
- 1736 36" CABINET
- 1736ADA CABINET
- 1736ADA-FA
- 1736ADA-A
- KD

-CHV CLOSURE, HORIZONTAL & VERTICAL

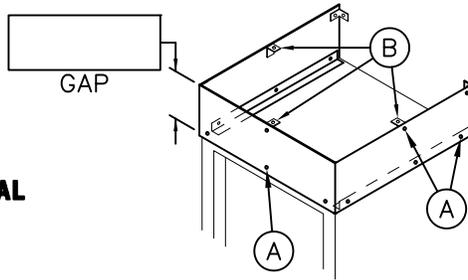
- C CENTER
- L LEFT
- R RIGHT
- AL ANGLED LEFT
- AR ANGLED RIGHT
- TF TOP FRONT
 - ONE CABINET SINGLE
 - TWO CABINETS DOUBLE
 - OTHER _____
- STC SLOPING TOP (NO DIMENSIONS REQUIRED)

-HAC HORIZONTAL ANGLED CLOSURES

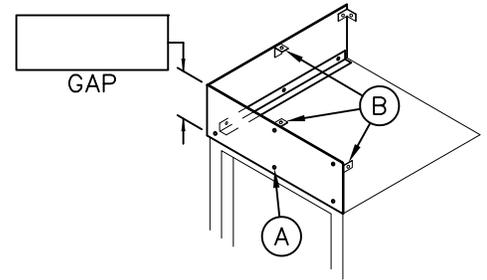
- AL ANGLED LEFT
- AR ANGLED RIGHT
- TSW TOP SINGLE WALL

SPECIFY:

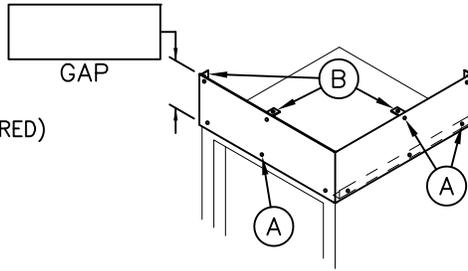
- LESS PUNCHING FOR FASTENERS



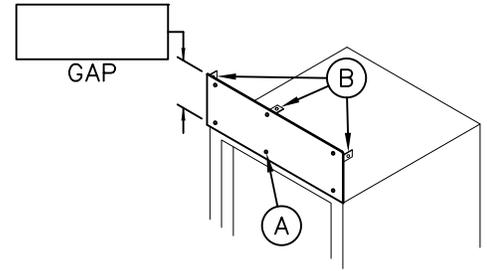
HAC - TSW
TOP SINGLE WALL



HAC - AL
LEFT HAND TOP CLOSURE

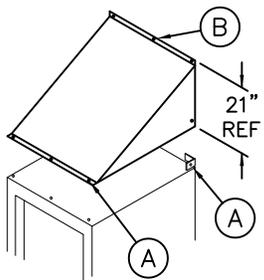


HAC - AR
RIGHT HAND TOP CLOSURE

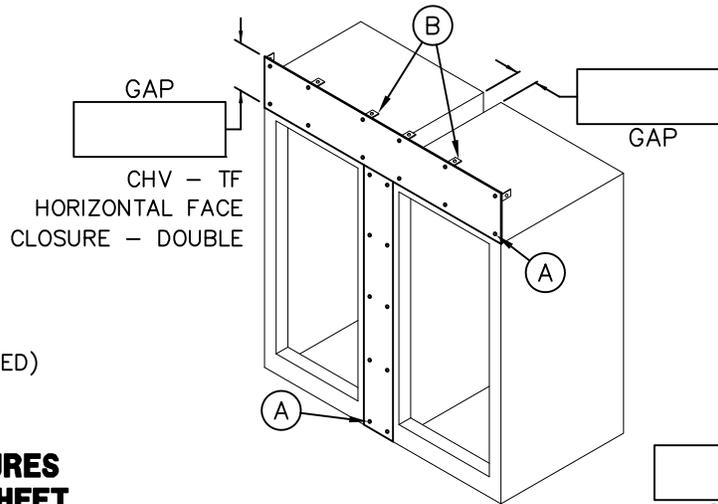


CHV - TF
HORIZONTAL FACE
CLOSURE - SINGLE

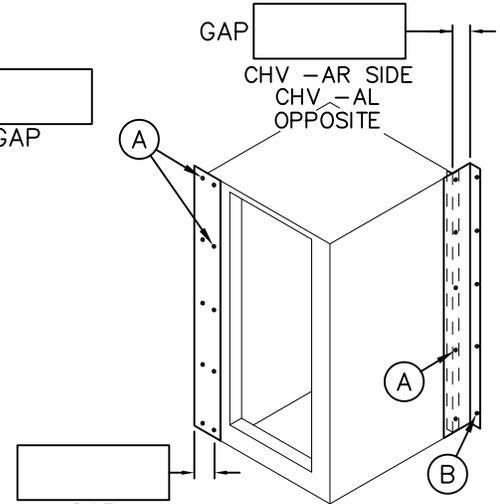
ALWAYS SPECIFY "GAP" DIMENSIONS.



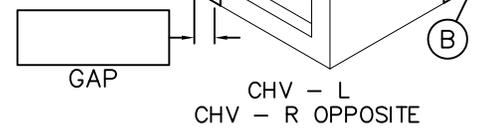
CHV - STC
SLOPING TOP CLOSURE
(FIELD DIMENSIONS NOT REQUIRED)



CHV - TF
HORIZONTAL FACE
CLOSURE - DOUBLE



CHV - L
VERTICAL FACE CLOSURE



CHV - R
OPPOSITE

**CABINET SHOWER CLOSURES
-CHV, -HAC SUBMITTAL SHEET**

REFERENCE DRAWING #9925-119-001

ORDERING INSTRUCTIONS:

SPECIFY 'GAP' DIMENSIONS AND TYPE OF CLOSURES REQUIRED WHERE INDICATED. FACTORY WILL CALCULATE OVERLAP AND DETERMINE IF INTEGRAL ANGLES ARE REQUIRED. FIELD DIMENSIONS ARE REQUIRED IN WRITING PRIOR TO FABRICATION. MEASUREMENTS FOR CLOSURES SHOULD BE TAKEN AFTER CABINET SHOWERS ARE INSTALLED. REFER TO ACORN CATALOG, PENAL-WARE, MODEL NUMBER AND OPTIONS SECTION FOR ADDITIONAL INFORMATION. FOR INSTALLATION DETAILS SEE DRAWING #9925-119-001.

A- WHERE THE CLOSURES ATTACH TO FRONT, TOP AND SIDES OF THE CABINET, THE CLOSURE SHOULD BE USED AS A TEMPLATE TO MARK THE LOCATIONS TO BE FIELD DRILLED AND TAPPED TO ACCEPT #10-32 UNF X 1/2" LONG (A) VANDAL RESISTANT FASTENERS PROVIDED.

B- WHERE THE CLOSURES ATTACH TO THE WALL OR CEILING, THE CLOSURE SHOULD BE USED AS A TEMPLATE TO MARK THE LOCATIONS TO BE FIELD DRILLED AND TAPPED TO ACCEPT #1/4-20 UNC X 1" LONG (B) VANDAL RESISTANT FASTENERS PROVIDED.



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TITLE CABINET SHOWER CLOSURES		
MANUFACTURE DATE FEBRUARY 1995 TO PRESENT	DATE ISSUED 02/03/09	DRAWING NUMBER 9925-117-001
	DATE REVISED 07/13/11	