

# Owners Manual

## 4595 Freeze Resistant Pedestal Barrier Free Stone Fountain

### **STOP!** **PLEASE READ THE FOLLOWING** **INFORMATION.**

- **INSTALLATION INSTRUCTIONS FOR THE 4595FR FTN. WITH 97482C DUAL VALVE CONTROL ASSEMBLY ARE LOCATED ON PAGES 2 - 5.**
- **INSTALLATION INSTRUCTIONS FOR THE 4595FR FTN. WITH SANITARYFR2 VALVE ARE LOCATED ON PAGES 6 - 12.**

### **INSTALLER**

4595FR Fountains are among the easiest to install Fountains on the market today. To assure you install these models easily and correctly, PLEASE READ THESE SIMPLE INSTRUCTIONS BEFORE STARTING THE INSTALLATION. CHECK YOUR INSTALLATION FOR COMPLIANCE WITH PLUMBING, ELECTRICAL, AND OTHER APPLICABLE CODES. After installation, leave these instructions with the Fountain for future reference.

### **IMPORTANT**

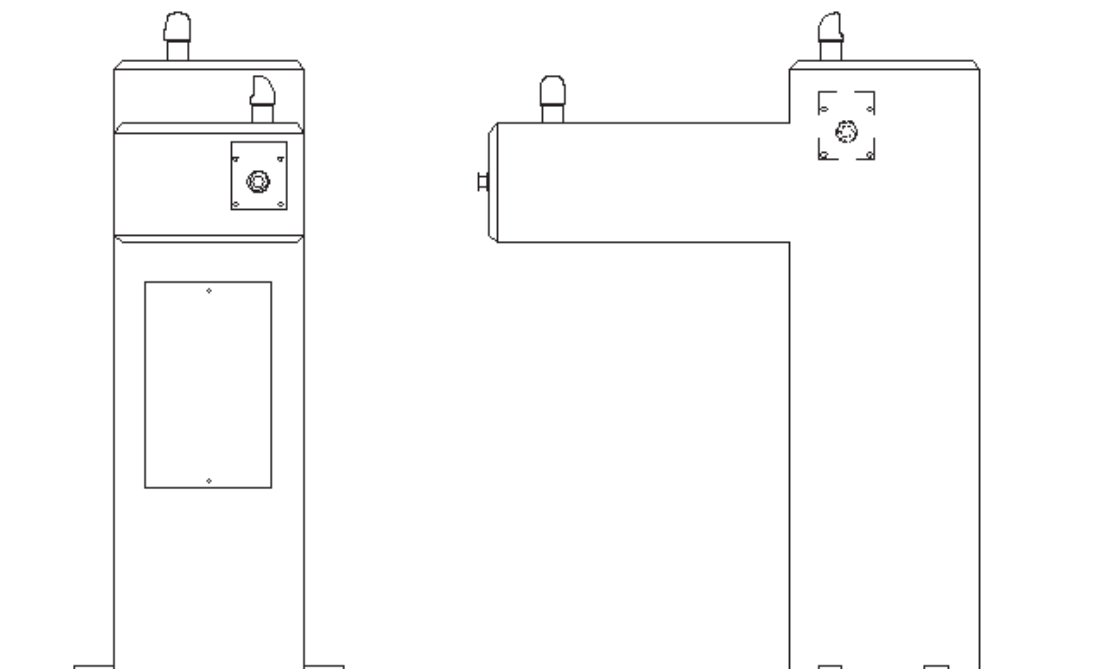
THE GROUNDING OF ELECTRICAL EQUIPMENT SUCH AS TELEPHONE, COMPUTERS, ETC. TO WATER LINES IS A COMMON PROCEDURE. THIS GROUNDING MAY BE IN THE BUILDING OR MAY OCCUR AWAY FROM THE BUILDING. THIS GROUNDING CAN CAUSE ELECTRICAL FEEDBACK INTO A FOUNTAIN, CREATING AN ELECTROLYSIS WHICH CAUSES A METALLIC TASTE OR AN INCREASE IN THE METAL CONTENT OF THE WATER. THIS CONDITION IS AVOIDABLE BY USING THE PROPER MATERIALS AS INDICATED. ANY DRAIN FITTINGS PROVIDED BY THE INSTALLER SHOULD BE MADE OF PLASTIC TO ELECTRICALLY ISOLATE THE FOUNTAIN FROM THE BUILDING PLUMBING SYSTEM.

### **IMPORTANT**

ALL SERVICE TO BE PERFORMED BY AN AUTHORIZED SERVICE PERSON

# Owners Manual

## 4595 Freeze Resistant Barrier Free Stone Pedestal Fountain with 97482C Dual Valve Control Assembly



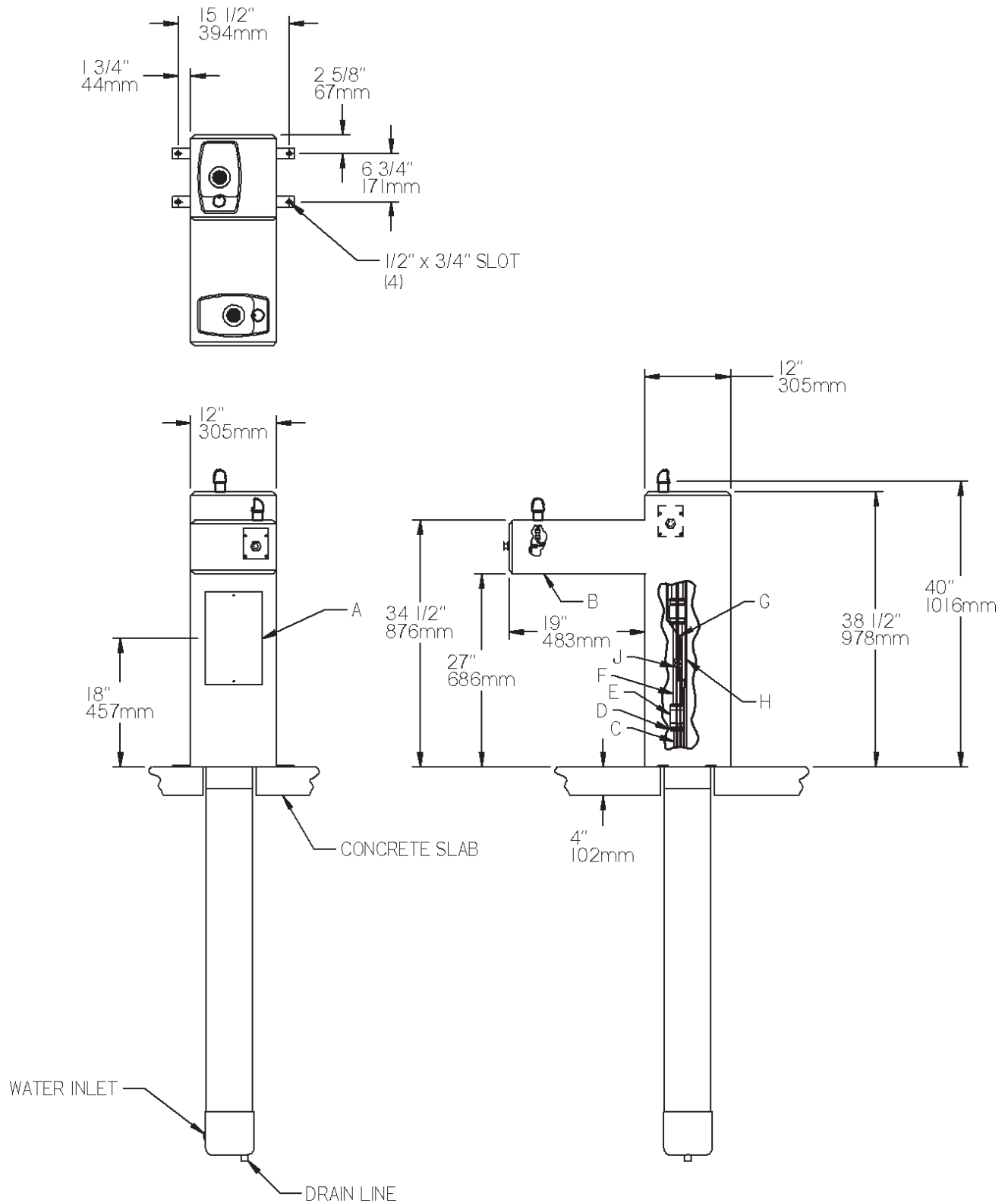
### IMPORTANT! INSTALLER PLEASE NOTE

**Do not pull up on lines coming out of the PVC column. This raises the water valve above the frost line with disastrous results.**

#### General Installation Tips

1. Be sure to flush water supply line before you connect it to the inlet fitting on Freeze Resistant Valve System.
2. There are two drain lines required for this unit. One for the drinking fountain basin drain and one for the valve/water supply line system. The bowl drain is the 3/4" PVC fitting at the bottom of the 6" PVC tube and the valve drains through the small holes in the PVC cap. Provide ample drainage for these two items. It's always better to have too much then not enough.
3. The column (6" PVC tube) must remain vertical. Be sure it remains vertical when backfilling the excavating trench.
4. When the concrete pad, for mounting the fountain, is poured, be sure to allow adequate space around the top of the column so that the flexible cap may be removed for servicing the valve.
5. We recommend that the top of the column be flush or slightly above the top height of the concrete pad.
6. You should test the unit before you backfill. Simply blow on the clear, small diameter tubing. A steady stream should flow from the braided tubing line. When air pressure is removed from the clear tubing the water stream should stop.
7. Once you have tested the valve, backfilled the hole and poured the concrete mounting pad you are ready to set the fountain. After bolting the fountain in place connect the air control valve tubing, supply water tubing and drain lines. The water supply line must have a straight run from the basin bubbler down to the control valve. If a straight run is not maintained water will become trapped and freeze leaving the unit inoperable. Test the fountain again. If it fails to work, the air control line may be kinked or connected improperly. Be sure to keep water out of the air control line.
8. These products are designed to operate on 20 psig to 105 psig supply line pressure. If inlet pressure above 105 psig, a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this product to supply line pressure lower than 20 psig or higher than 105 psig is not covered by warranty.

# **SITE PREPARATION DETAIL FOR THE 4595FR FTN. WHEN USING 97482C DUAL VALVE CONTROL ASSY.**



## **LEGEND**

**A = ACCESS PANEL**

**B = REMOVABLE BOTTOM COVER**

**C = 1" PVC DRAIN**

**D = PRESSURE FITTING 1-1/4" x 3/4"**

**E = CONNECTOR 1-1/4" TO 1-1/4"**

**F = 1-1/4" DRAIN TUBE**

**G = AIR CONTROL LINE**

**H = 1/4" WATER LINE**

**J = CONNECTOR FOR AIR CONTROL LINE**

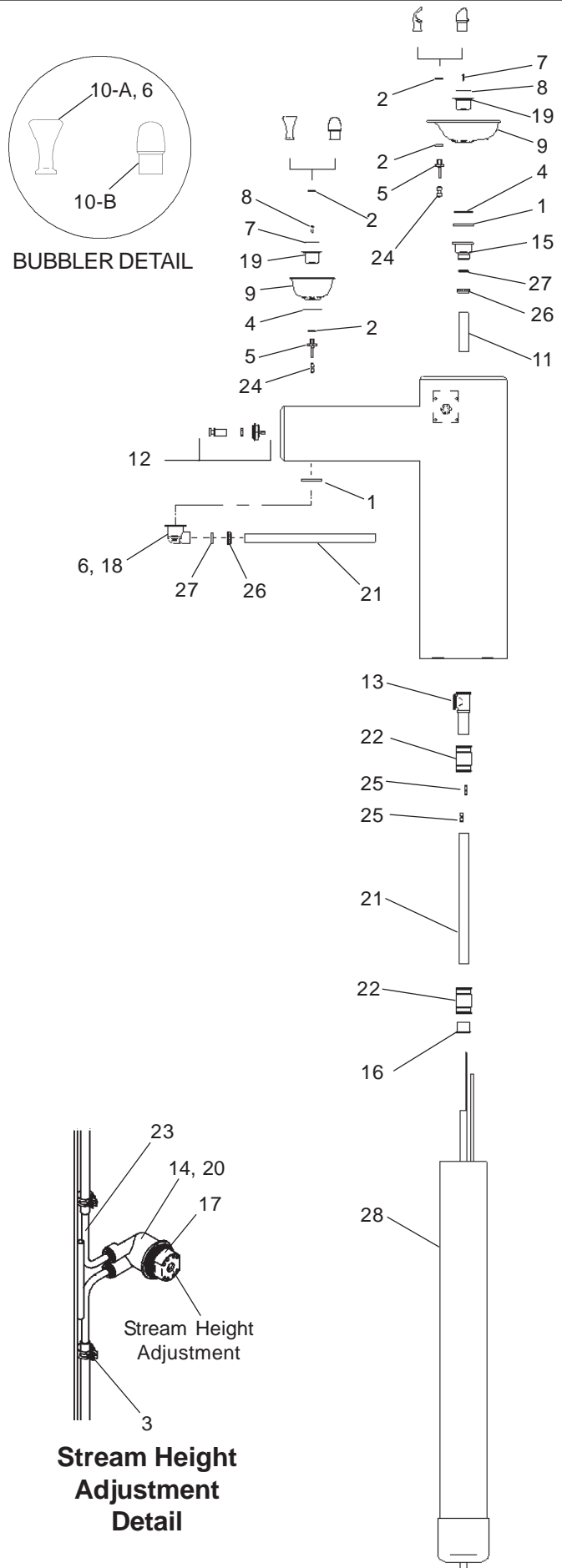
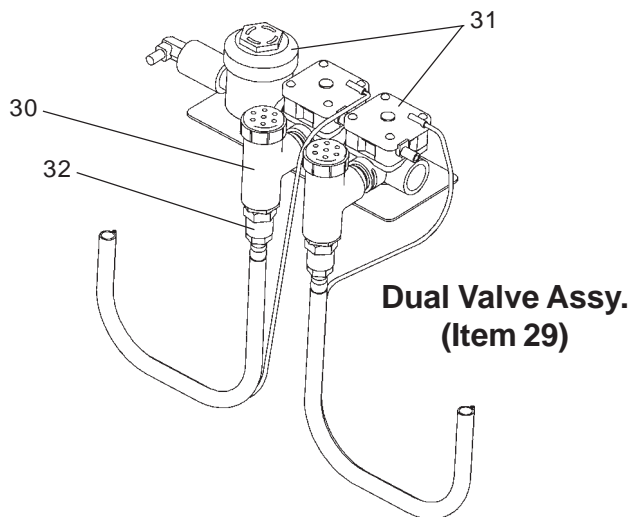
**FIG. 1**



**The following items are included with  
the 4595FR Fountain**

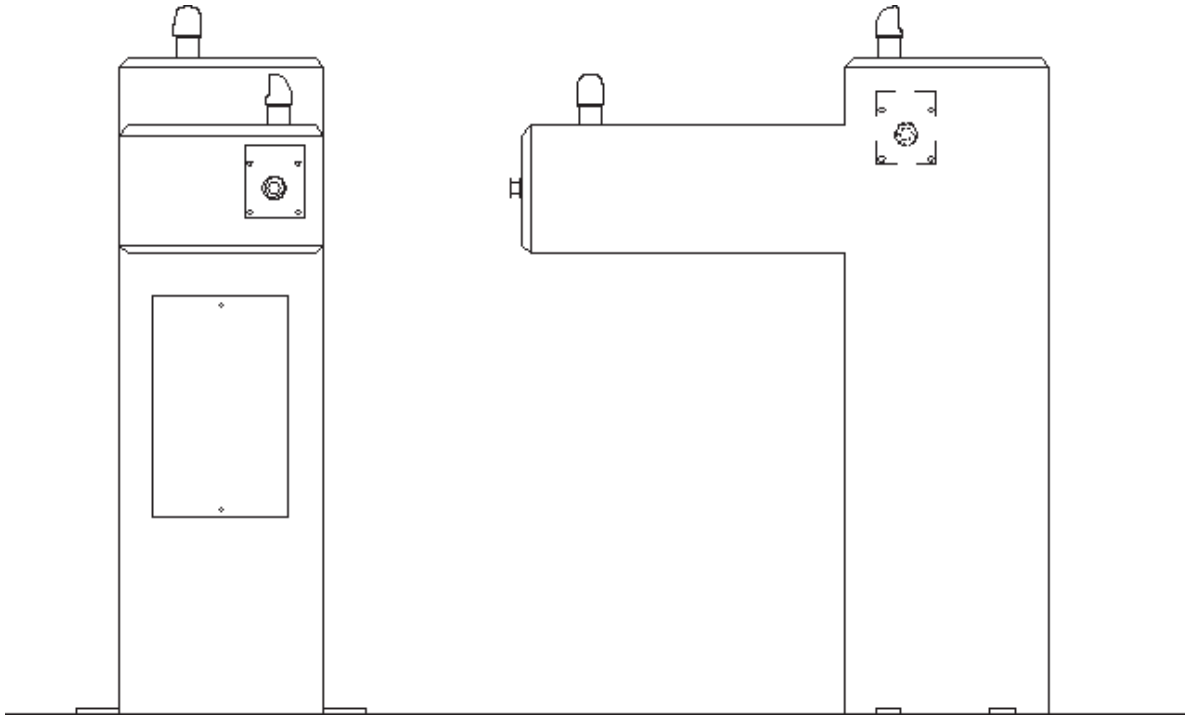
PARTS LIST		
ITEM NO.	PART NO.	DESCRIPTION
1	100147140560	Drain Gasket
2	100322740560	Gasket
3	101449542550	Clamp - Hose
4	101570540560	Drain Gasket
5	15013C	Bubbler Tube Assy.
6	110544942550	Set Screw #8-32 x .125
7	110868642550	Socket Head Screw #10-24 x .75
8	160270508640	Strainer Plate
9	170705042830	Basin
10-A	400942308640	Bubbler
10-B	98287C	Bubbler Assembly
11	40250C	Tailpipe 1-1/4" x 5-3/8"
12	45403C	Push Button Actuator
13	45476C	Drain Tube
14	50986C	Regulator Holder
15	55913C	Drain Adapter
16	55960C	Pressure Fitting 1-1/4" To 3/4"
17	56082C	Regulator Nut
18	56121C	Drain Elbow 1-1/4"
19	600985451640	Drain Plug Assy.
20	61313C	Regulator
21	66346C	Drain Tube
22	66461C	Fitting 1-1/4" x 1-1/4"
23	66719C	Tube Assy.
24	70683C	Union 1/4"
25	75565C	Fitting - Double Male Connector
26	75588C	Slip Joint Nut 1-1/4"
27	75589C	Gasket
28	97482C	Dual Control Valve System Complete
*29	45971C	Dual Control Valve Assy.
30	45788C	Rainbird Check Valve
31	45793C	Dual Acorn Valve Assy.
32	45790C	Flow Control Fitting
NS	56092C	Poly Tubing - 1/4" (Cut To Length) -To Bubbler
NS	56123C	Poly Tubing - 1/8" (Cut To Length) -To Actuator
NS	75539C	Allen Wrench

\* Includes items 30, 31, 32



# Owners Manual

## 4595 Freeze Resistant Barrier Free Stone Pedestal Fountain with SanitaryFR2 Valve



### IMPORTANT! INSTALLER PLEASE NOTE

**Tubing must be cut to the right length. Do not coil any excess tubing or it will cause valve to malfunction.**

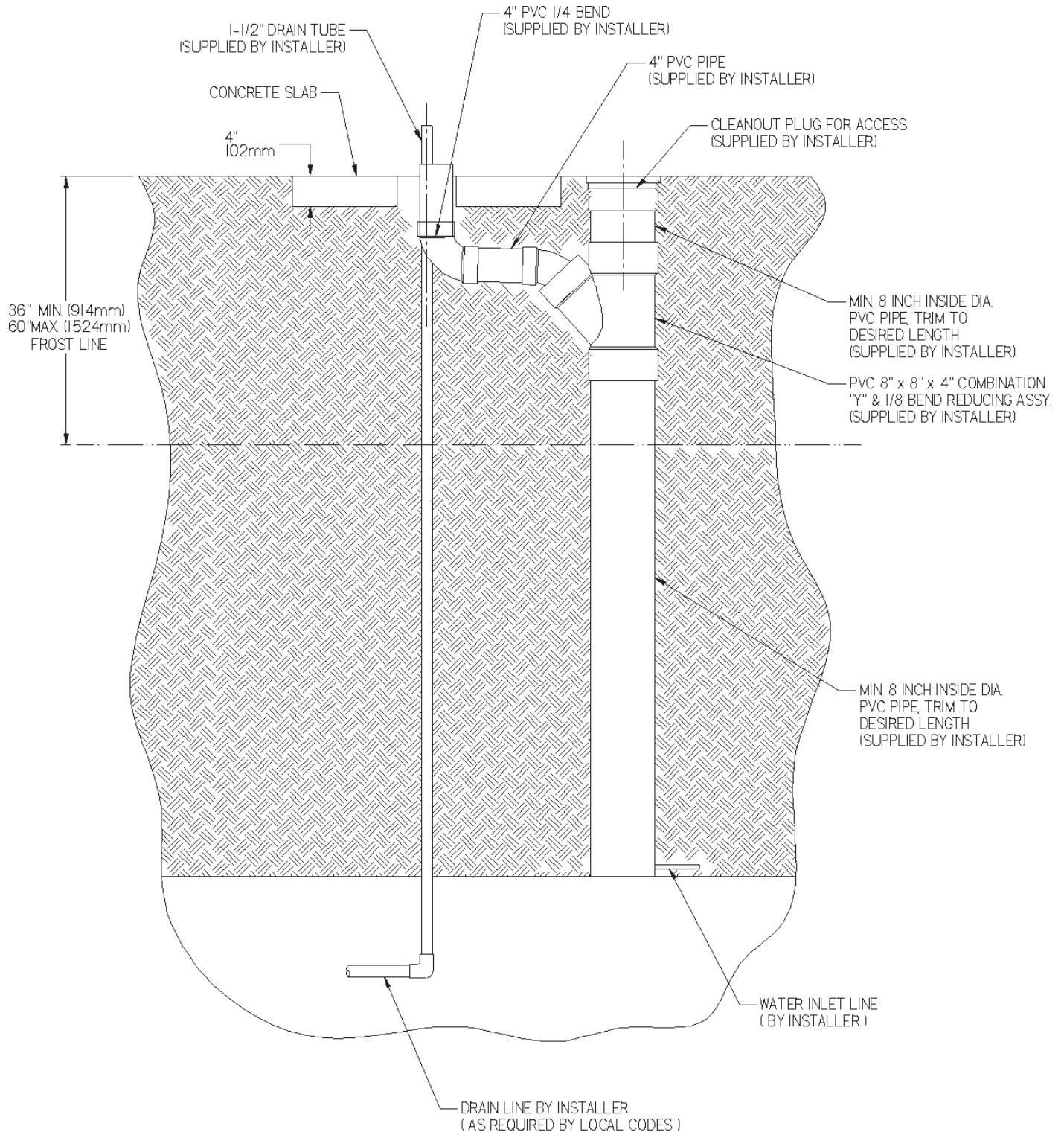
### General Installation Tips

1. Prepare trench for water supply and waste drain lines. The hole should be deep enough to accommodate the PVC column. Additional porous fill and drain pipe may be required due to local ground conditions. Cut the PVC column to fit desired bury depth. Set PVC column in excavating pit.
2. Lay drain lines and water supply lines. Provide service shut off valve for maintenance. Flush the water supply line before attaching to the shut off valve.

### Other Notes:

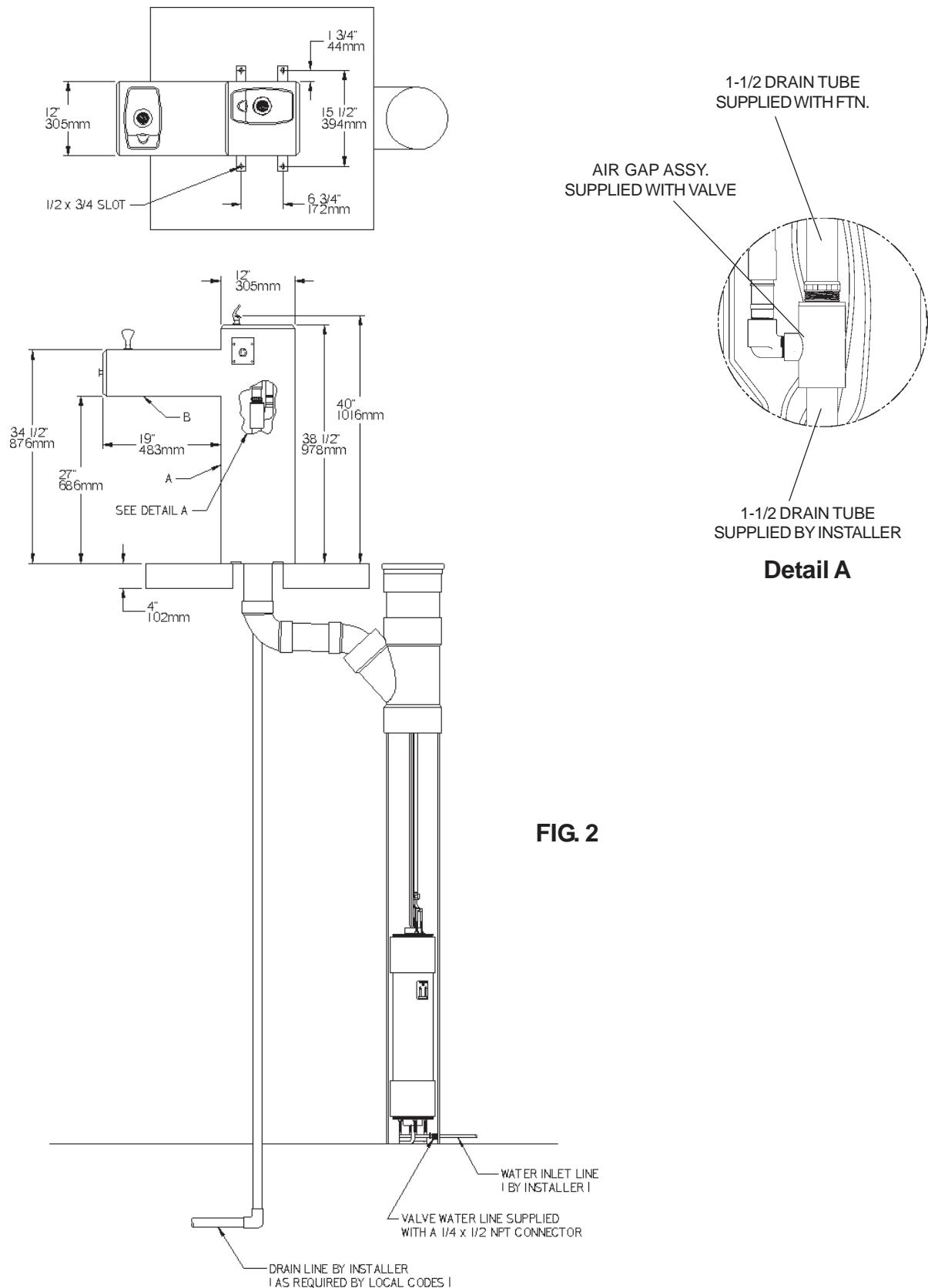
- The details on the attached pages show a suggested installation method. Depending on the climate and environmental conditions the suggested installation may be modified.
- Overall - for the freeze resistant to function properly the valve must be installed in a non-freezing area.

# **SUGGESTED SITE PREPARATION DETAIL FOR THE 4595FR FTN. WHEN USING THE SANITARYFR2 VALVE**



**FIG. 1**

# **SUGGESTED SITE PREPARATION DETAIL FOR THE 4595FR FTN. WHEN USING THE SANITARYFR2 VALVE**





## FOUNTAIN CONNECTIONS

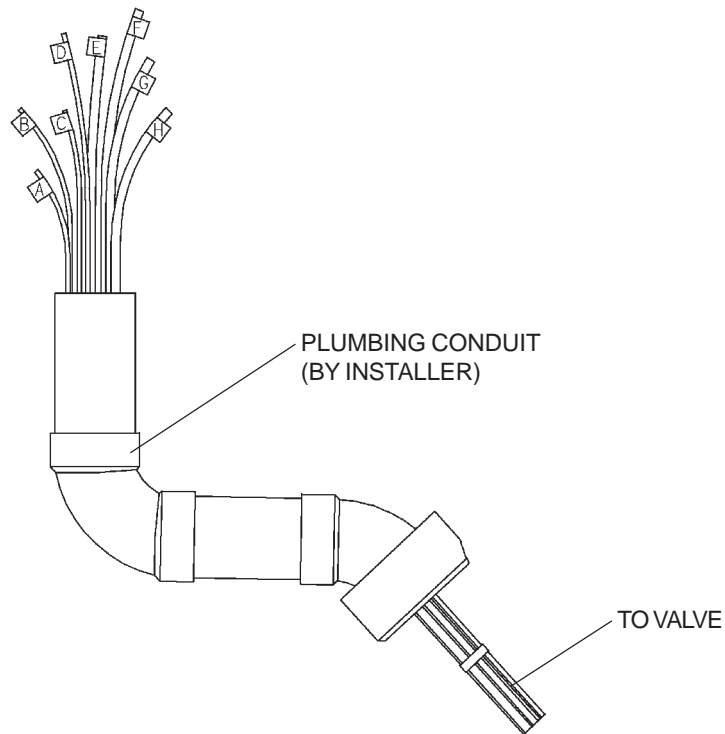
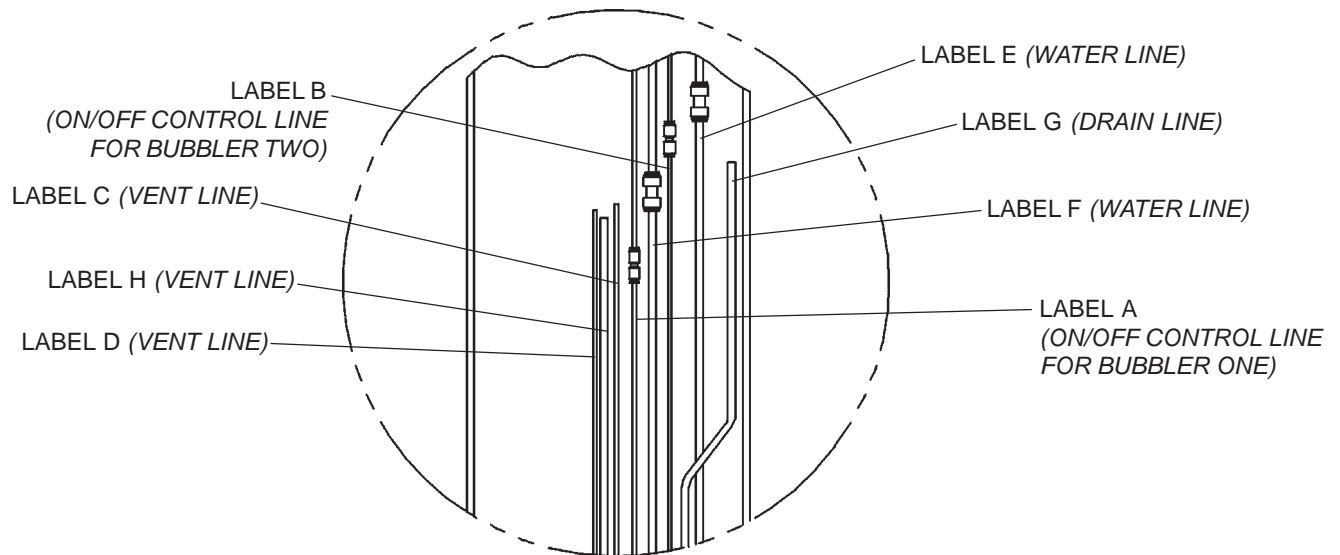


FIG. 3

### INSTRUCTIONS FOR CONNECTING TUBES FROM VALVE TO FOUNTAIN(S)

- Step 1 - Insert the 1/8" O.D. tube(s) (Labeled A & B) into the connector(s) (provided with fountain). Insert the 1/8" O.D. tube(s) coming from the fountain(s) push button actuator(s) into the connector(s). Trim any excess length.
- Step 2 - Secure the 1/8" O.D. tube(s) (Labeled C & D) to the waste line assembly. This line is a vent line and should be open to the air.
- Step 3 - Insert the 1/4" O.D. tube(s) (Labeled E & F) into the 1/4" union(s) (provided with valve assembly). Insert the 1/4" O.D. water lines coming from the fountain(s) into union(s). Trim any excess length.
- Step 4 - Insert the 1/4" O.D. tube (Labeled G) into the air gap assembly.
- Step 5 - Secure the 1/4" O.D. tube (Labeled H) to the waste line assembly. This line is a vent line and should be open to the air.



## FOUNTAIN CONNECTIONS

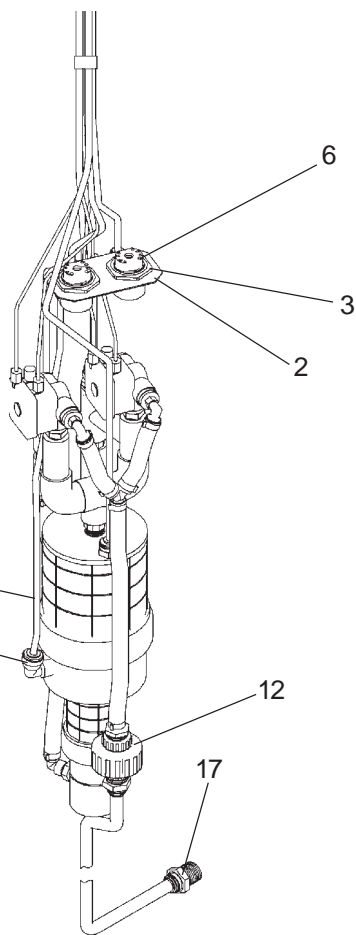


FIG. 4

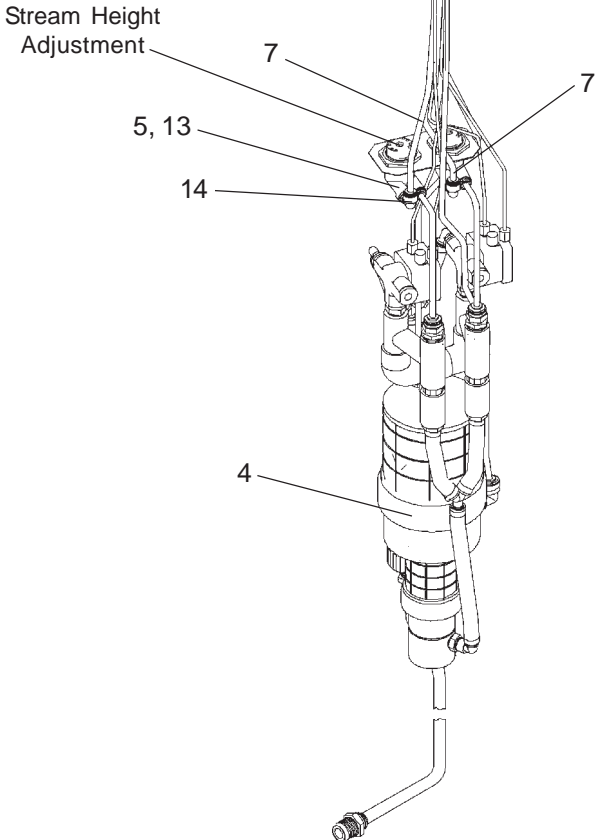


FIG. 5

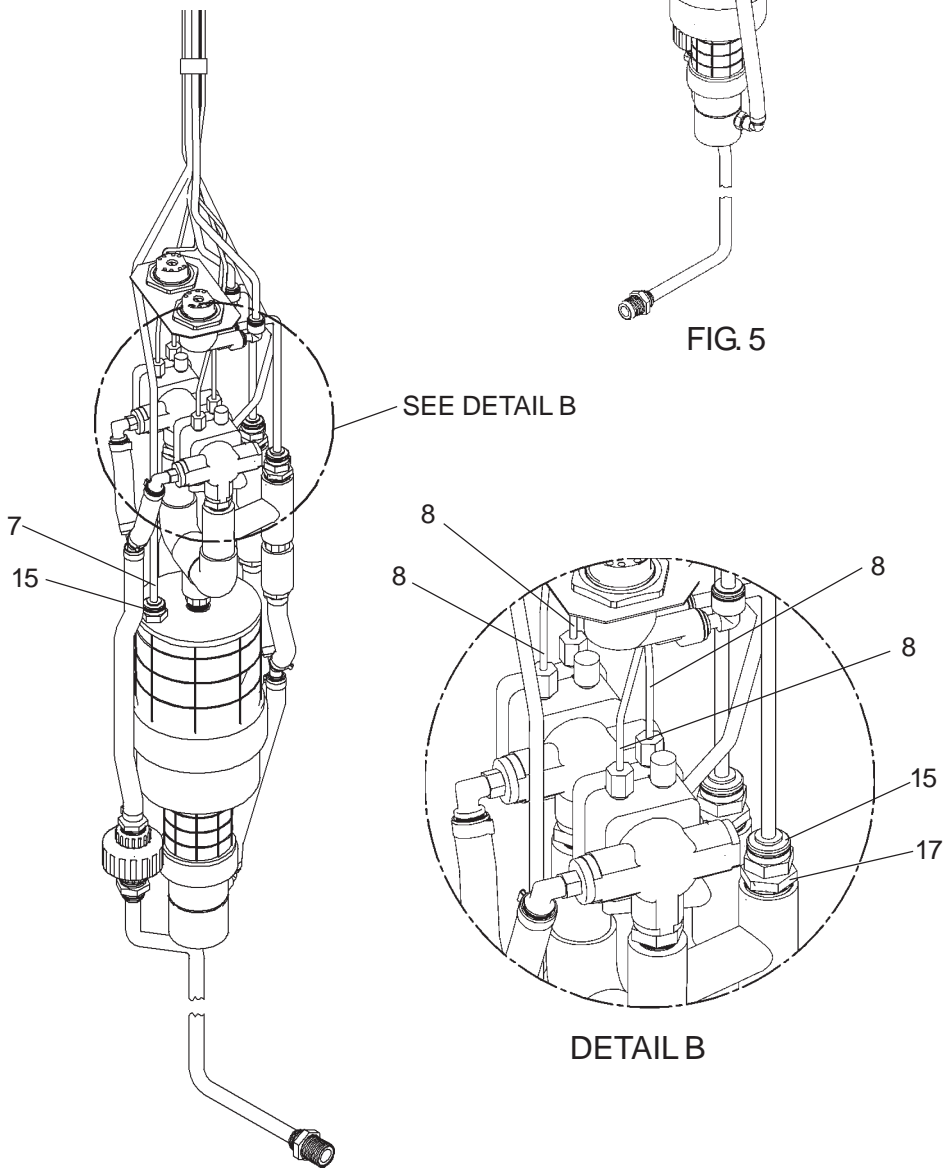


FIG. 6

DETAIL B

**The Following Items are included with  
the SanitaryFR2 Valve**

PARTS LIST		
ITEM NO.	PARTNO.	DESCRIPTION
1	110175443890	Hex Nut - 3/8-16
2	28424C	Bracket - Regulator Holder
3	40045C	Hex Nut - 1-5/16
4	45807C	Dual Valve
5	50986C	Regulator Holder
6	56082C	Regulator Nut
7	56092C	Poly Tubing - 1/4" (Cut To Length)
8	56123C	Poly Tubing - 1/8" (Cut To Length)
9	56185C	Canister
10	56187C	Trap - Adaptor 1-1/2
11	56203C	Air Gap Assy.
12	56235C	Fitting - 1/2" Union w/Strainer
13	61313C	Regulator
14	70817C	Fitting - Elbow 1/4 Stem x 1/4 Tube
15	70828C	Fitting - Connector 1/4 x 1/4 NPTF
16	75639C	Fitting - Elbow 1/4 x 1/4 NPTF
17	75642C	Fitting - Adaptor 1/4 NPT x 1/2 NPT
18	75652C	U-Bolt
19	75653C	Nylon Strap - 6 ft.
NS	70683C	Fitting - Union 1/4

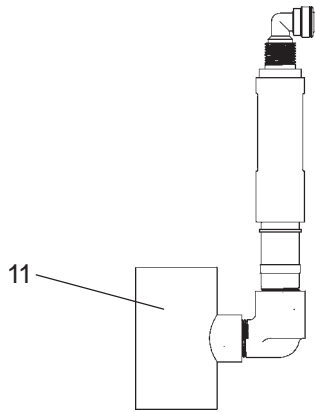


FIG. 7

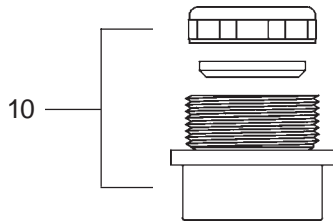


FIG. 8

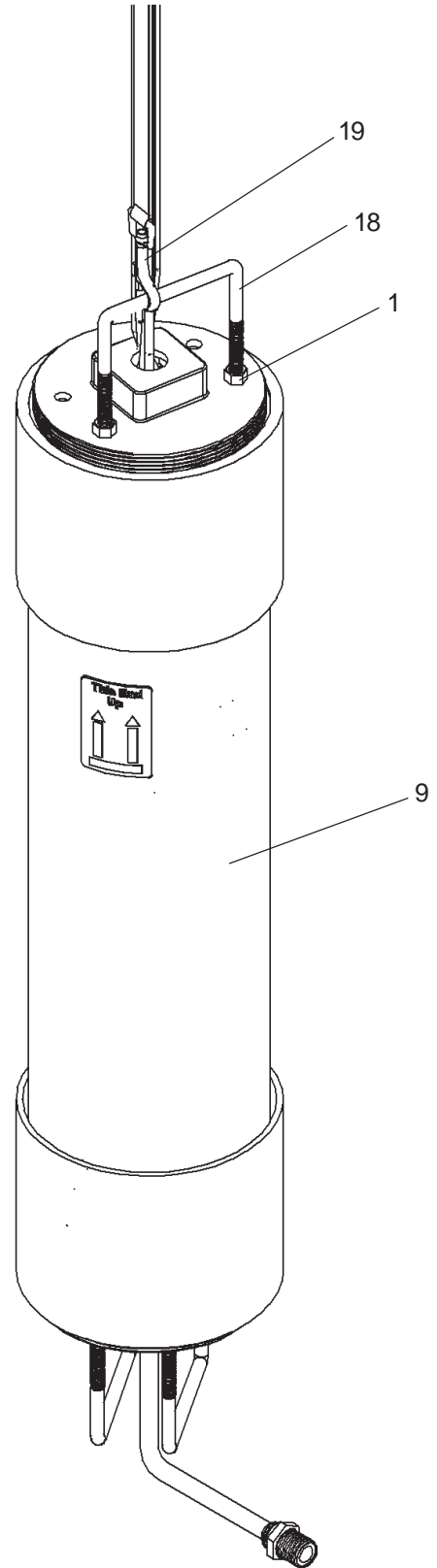


FIG. 9

## The Following Items are included with the 4595FR Fountain

PARTS LIST		
ITEM NO.	PART NO.	DESCRIPTION
20	100147140560	Drain Gasket
21	100322740560	Gasket
22	101570540560	Drain Gasket
23	15013C	Bubbler Tube Assy.
24	110544942550	Set Screw #8-32 x .125
25	110868642550	Socket Head Screw #10-24 x .75
26	160270508640	Strainer Plate
27	170705042830	Basin
28-A	400942308640	Bubbler
28-B	98287C	Bubbler Assembly
29	40250C	Tailpipe 1-1/4" x 5-3/8"
30	45403C	Push Button Actuator
31	45476C	Drain Tube
32	55913C	Drain Adapter
33	56121C	Drain Elbow 1-1/4"
34	600985451640	Drain Plug Assy.
35	66346C	Drain Tube
36	70683C	Union 1/4"
37	75588C	Slip Joint Nut 1-1/4"
38	75589C	Gasket
NS	75565C	Fitting - Double Male Connector
NS	56092C	Poly Tubing - 1/4" (Cut To Length) -To Bubbler
NS	56123C	Poly Tubing - 1/8" (Cut To Length) -To Actuator
NS	75539C	Allen Wrench

### Trouble Shooting

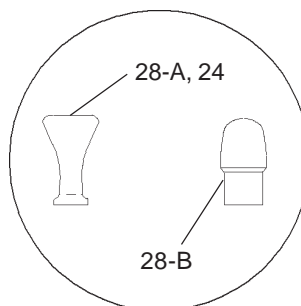
**Insufficient Bubbler Flow:** Check that the shut-off valve is wide open. Verify minimum 20 PSI supply pressure. Clean inlet strainer screen located in the valve body. Clean rubber orifice in flow control located below frost line in bushing between barb fitting and valve.

**No Flow:** Check for leaks in the air tubing going from the push button to the valve. Make sure the air tubing compression nut is hand tight. Disconnect air tube from push button. Place finger over air outlet. Push button to test diaphragm. Tighten diaphragm cap screws. Replace diaphragm if necessary.

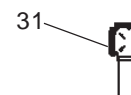
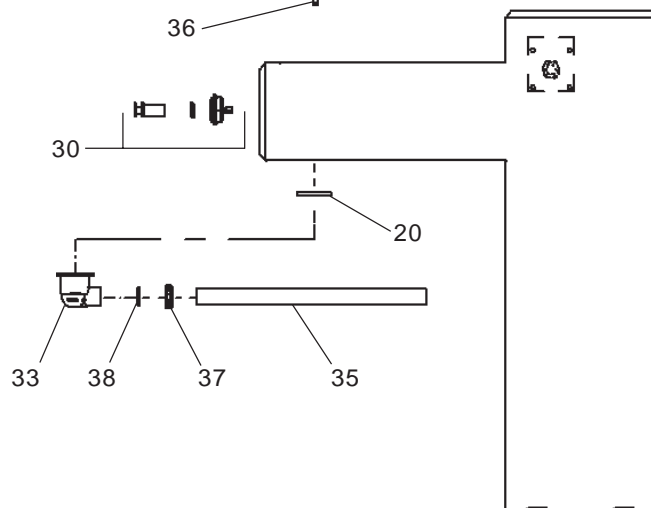
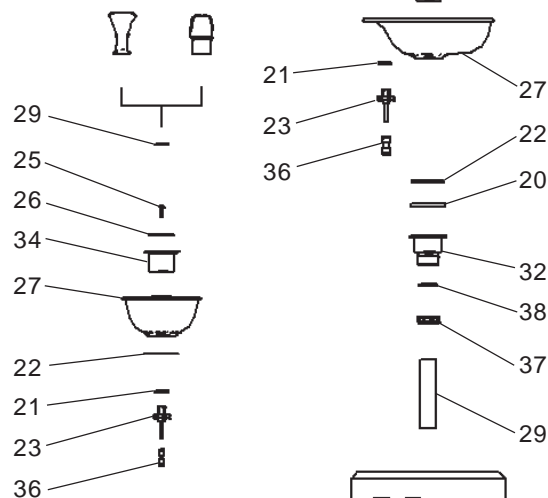
#### Continued Insufficient or Varied Height of Bubbler Flow:

- Replace flow control.
- Check for kinks in the tubing.
- Remove the cleanout plug from the PVC column. Remove the valve assembly from the PVC column by carefully pulling up on the strap and connecting tubing at the same time. Pressure test the valve assembly for leaks. Check stream height from the bubbler. Stream height is factory set at 35 PSI. If supply pressure varies greatly from this, adjust the screw on the regulator (Item 13, Page 10, Fig. 4). Clockwise adjustment will raise stream and counter-clockwise adjustment will lower stream. For best adjustment stream height should be approx. 1-1/2" (38mm) above the bubbler guard. Replace the valve into the PVC column. Make sure the supply hose coils into the bottom of the PVC column without any kinks and double check that the valve is positioned fully at the bottom of the PVC column. Cap the PVC column.

**Continuous Bubbler Flow:** Insure that push button is not obstructed and springs back to normal position. Remove four screws which secure plastic diaphragm block to valve body. Pull plastic and rubber diaphragm assembly out of valve body. Locate tiny hole in rubber diaphragm just under lip of plastic part. Clean debris from this hole. Inspect valve seat for grooves. If valve seat was OK and diaphragm hole was free from debris, inspect rubber button located at center of floating steel disc in valve diaphragm block assembly. If button is worn, turn disc over or replace it. If diaphragm and seats are in good condition, stretch spring slightly. Spring is located behind floating stainless steel plate. Insure that air bleed port on valve plastic block assembly is not plugged.



BUBBLER DETAIL



Included with  
SanitaryFR2  
Valve

