



# INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

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No. 2077777(17)

## Model 6518FR

**NOTE TO INSTALLER: Please leave this information with the Maintenance Department.**

### LIMITED WARRANTY

HAWS warrants that this specific product is guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. HAWS liability under this warranty shall be discharged by furnishing without charge F.O.B. HAWS Factory any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to Haws within a reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the Company, prepaid, for inspection. HAWS will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents, except upon written authority from HAWS, Sparks, Nevada. HAWS will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that HAWS shall not be liable for general, special, or consequential damages claimed to arise under the contract of sale. The drinking fountain manufactured by HAWS is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended.

**NO OTHER WARRANTIES EXPRESSED OR IMPLIED ARE AUTHORIZED,  
PROVIDED OR GIVEN BY HAWS.**

**SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS  
MODEL PLEASE CALL:**

**TECHNICAL SUPPORT: 1-800-766-5612**

**FOR CUSTOMER SERVICE: 1-888-640-4297**

**RECOMMENDED TOOLS:** Pipe joint sealant, screwdriver, level, 5/64" hex key wrench, 12" adjustable wrench, 10" pipe wrench, 5/16", 3/4", 9/16", 1/2" and 7/16" open end wrenches.

**LOCATION OF UNIT:** The Model 6518FR is suitable for all season out-door use where temperatures may drop well below freezing. This model is used with HAWS outdoor drinking fountains and jug fillers. When installing this unit, local state or federal codes should be adhered to.

**SUPPLY LINE:** The minimum recommended line size is 1/2" IPS with 30-90 psi (2-6 ATM) flowing pressure. Where sediment or mineral content in water is a problem, an inlet filter is recommended.

**PLUMBING CONNECTIONS:** Inlet valve is 1/2" IPS male, which must be buried below the frost line. Waste outlet is female 1-1/4" outside diameter tailpiece.

## INSTALLATION PROCEDURE

**NOTE:** For all plastic push-in type fitting connections; push tubing into fitting until it bottoms out to ensure a watertight connection. To remove, depress collet and pull tubing out. Only connect NSF-61 copper or plastic tubing to these push-in-type fittings.

Refer to installation drawing for details. Use pipe joint sealant on all water connections.

- STEP 1:** Trench for water supply and waste drain lines. The hole should be deep enough to accommodate the PVC casing and a minimum of 10 cubic feet of porous fill (gravel). Additional porous fill and drain pipe may be required due to local ground conditions. Provide a shut-off valve for maintenance. Install the 1/2" supply line and 1-1/4" sanitary drain, (see Installation Drawing sheet 2 of 3), excavation detailed drawing. Cut the PVC pipe to fit desired bury depth, but no less than 40" long.
- STEP 2:** Attach the supply hose assembly to the inlet elbow below the frost line (See Installation Drawing sheet 3 of 3). Lower the PVC pipe into place. Then with PVC primer and glue attach the "Y" fitting to the pipe. Pull the supply assembly up through the casing using the attached metal rod. Flush the line before attaching the valve.
- STEP 3:** Attach the valve assembly to the hose assembly outside of the casing. **Pressure test for leaks:** Using the metal rod as a handle, lower the complete valve assembly into casing. Make sure that the supply hose coils into the bottom of the casing without any kinks. Keep the hose coiled underneath the valve (see Installation Drawing sheet 1 of 3). Cap the casing and back-fill the trench. Keep the valve casing vertical at all times.
- STEP 4:** Locate the fountain anchor bolts in the proper position. Care must be taken to insure clearance within the pedestal for the valve casing branch arm waste drain line. Pour concrete into forms and finish. Let concrete set for at least 24 hours.
- STEP 5:** Place the fountain onto the mounting pad and secure in place. Pull the valve assembly out of the valve casing. Feed the supply tubing from the fountain down into the valve casing branch arm. Reach into the top of the casing and pull the tubing out. Tubing should now run from pedestal operator down through valve casing arm, then up valve casing to ground level. Measure and cut the tubing to length, allowing enough tubing, to reach the bottom of valve casing. Connect tubing from fountain to the push-in type fitting outlet of the valve. Connect the waste line to the fountain.

## INSTALLATION PROCEDURE...

- STEP 6:** Feed the two 5/32" O.D. tubing from the valve up to the fountain through the valve casing branch arm. Connect the tubing with label to the push button. Secure with the compression nut (hand tight only). Leave the end of the attached breather tube open to the air.
- STEP 7:** Turn on the supply line shutoff valve. Test the 6518FR valve using the fountain push button. Check for leaks. Refer to trouble shooting section for any malfunction.
- STEP 8:** Lower the complete valve assembly back into the casing as in Step 3. Test the flow once again and make sure that the line water between valve and fountain drains back to porous fill. Make sure the tubing has no low spots, which might collect water causing ice plugs in freezing weather.
- STEP 9:** When the fountain operates satisfactorily, install the access plates. Place a piece of insulation foam (provided) inside the casing as shown on installation drawing. To complete installation, cap valve casing and replace valve box cover.

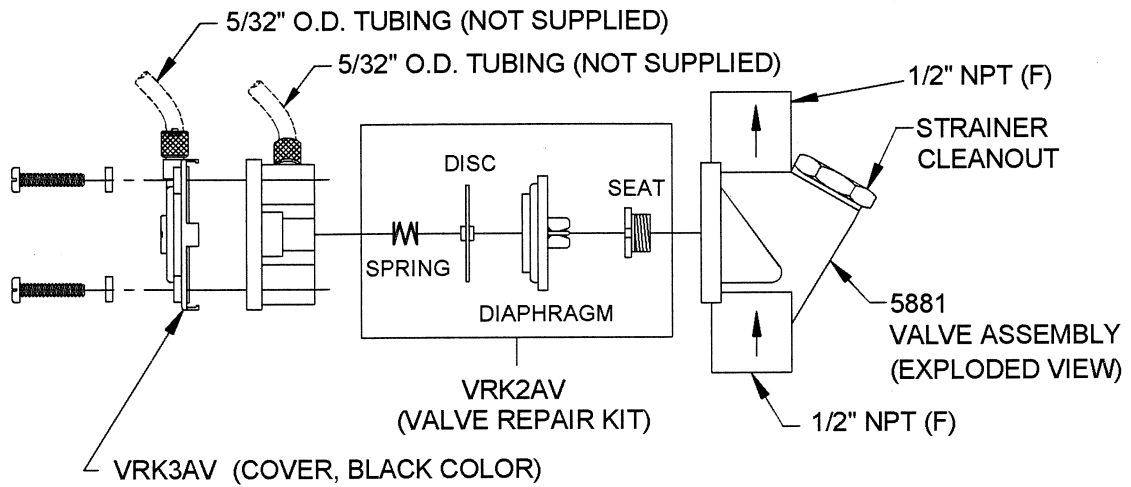
## TROUBLESHOOTING

PROBLEM	REPAIR CHECKLIST
1. High Flow	1. a. First; install additional valve ½"IPS (not supplied) at the inlet of the 6518FR valve (See installation drawing page 6, Detail A). b. Second; adjust the new valve to reduce the flow. Lower the 6518FR assembly down the PVC pipe to below the frost line, activate the push button and confirm if the desired water flow stream height has been achieved. If the stream is not at desired height, pull unit back up and adjust valve. Repeat these steps as necessary until the desired stream height is achieved.
2. Insufficient bubbler flow.	2. a. Check that the main shut-off valve is wide open. b. Verify minimum 30 psi supply pressure. c. Clean inlet strainer screen located in the valve body. d. Clean rubber orifice in flow control located below frost line in bushing between push-in fitting and tee assembly.
3. No flow.	3. a. Check for leaks in the air tubing going from the push button to the valve. b. Make sure the air tubing compression nuts are hand tight. c. Disconnect air tube from push button assembly. Blow into tube to verify valve function. Replace valve if necessary. d. Disconnect air tube from push button. Place finger over air outlet. Push button to test diaphragm. Tighten diaphragm cap screws. Replace diaphragm if necessary.
4. Continued insufficient or varied height of bubbler flow.	4. a. Replace flow control. b. Check for kinks in the tubing.

<b>TROUBLESHOOTING</b>	
<b>PROBLEM</b>	<b>REPAIR CHECKLIST</b>
5. Continuous bubbler flow.	5. a. Insure that push button is not obstructed and springs back to normal position.  b. Remove four screws, which secure plastic diaphragm block to brass 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 seat is worn, replace with stainless steel seat (newer models) or replace valve (older models, integral brass seat).  c. If valve seat was OK and diaphragm holes were 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 disc.  d. If diaphragm and seats are in good condition, stretch spring slightly. Spring is located behind floating stainless steel plate.  e. Insure that air bleed port on valve plastic block assembly is not plugged.

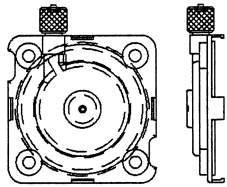
For more information about Haws products, see our website: [www.hawsc.com](http://www.hawsc.com)

# PARTS BREAKDOWN

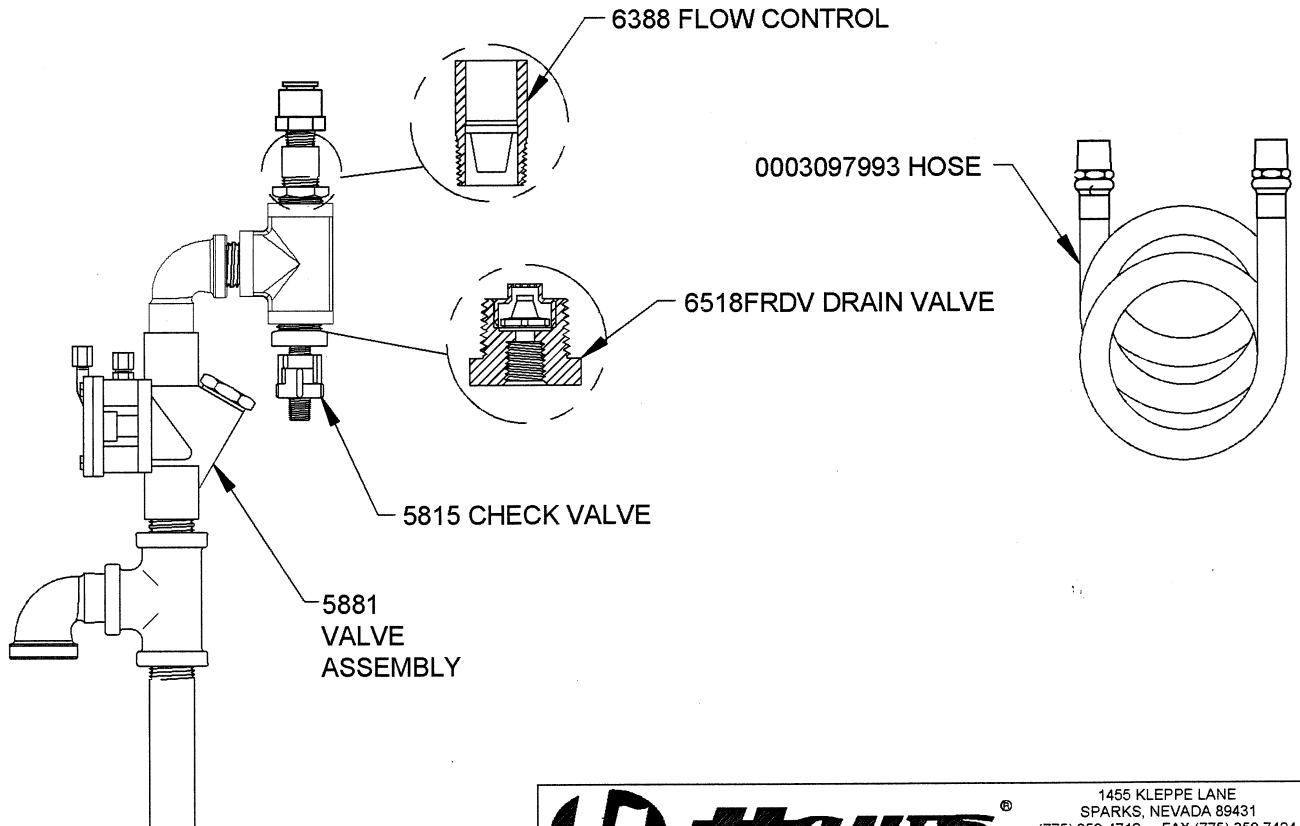


**NOTE:**

- 1 THIS BLACK COVER IS NOT INTERCHANGEABLE WITH GRAY COVERS USED ON OLDER 5881 VALVES. (SCREWS & WASHERS NOT SUPPLIED WITH COVERS).

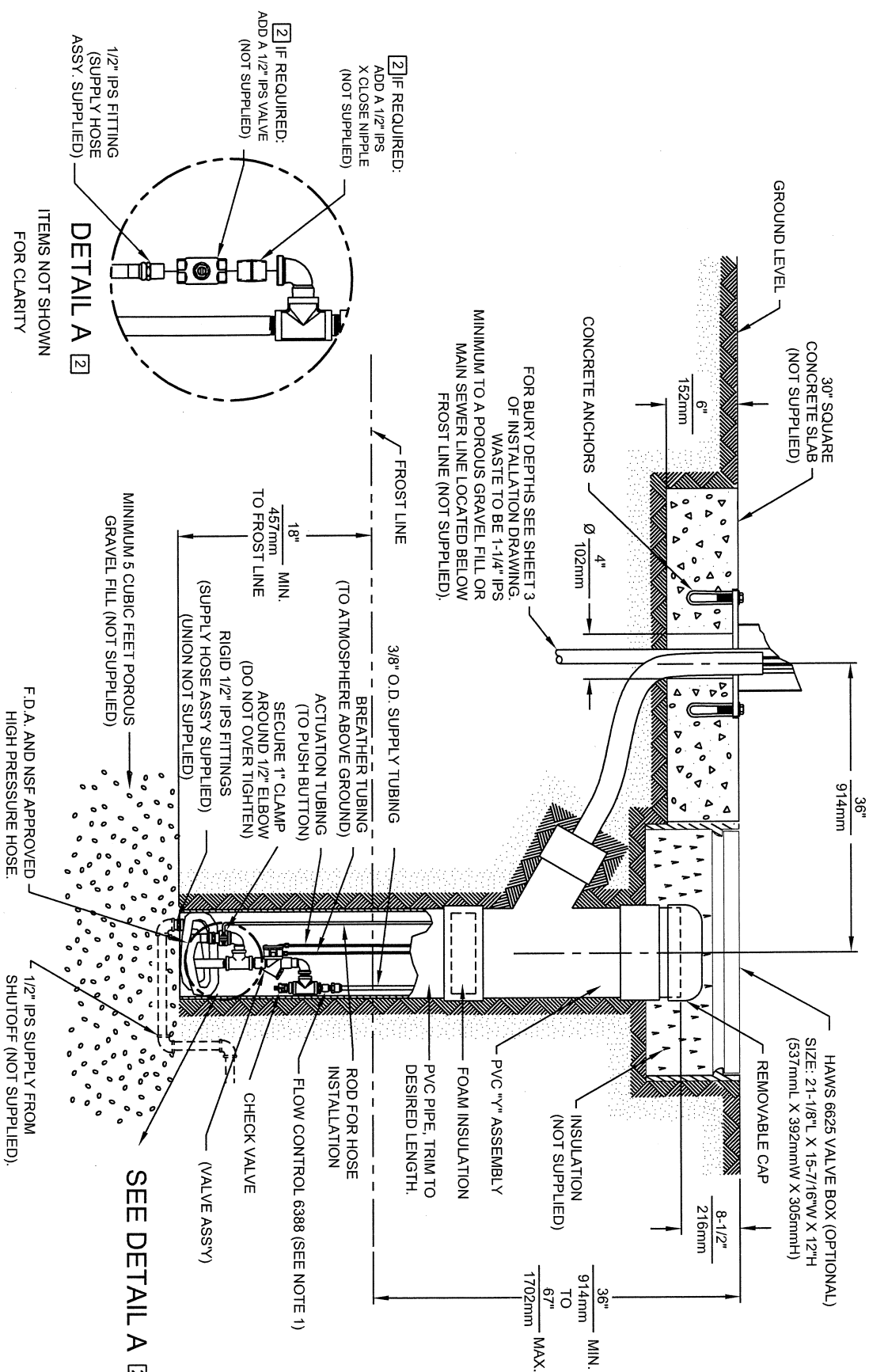


VRK3AV  
DETAIL 1



		1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWS.CO.COM WEBSITE: WWW.HAWS.CO.COM	
		ECN NO. REVISED PER BY: MODEL(S) ECN: 4604 JHM/	PART NUMBER: 0002077777
DRAWN: M.D. DATE: 04-26-08 APPROVED:	DATE: 7/12/11 MODEL(S): 6518FR VALVE, FREEZE RESISTANT, SINGLE	DRAWING NO.: REV 15184A00 17	SCALE: 1:1.85 DRAWING TYPE: PARTS BREAKDOWN SIZE: A SHEET 1 OF 1

**WHEN ORDERING PARTS PLEASE SPECIFY YOUR MODEL NUMBER**



- NOTE:
1. WHEN INSTALLING THE 6518.2FR WITH A SINGLE FOUNTAIN AND JUG FILLER THE FLOW CONTROL CONNECTED TO THE JUG FILLER SUPPLY MUST BE REMOVED.

2. IF EXPERIENCING A "HIGH FLOW CONDITION" INSTALL A 1/2" IPS X CLOSE NIPPLE AND 1/2" VALVE (BOTH NOT SUPPLIED) AS SHOWN IN DETAIL A. ADJUST VALVE TO ACHIEVE DESIRED BUBBLER HEAD STREAM HEIGHTS.

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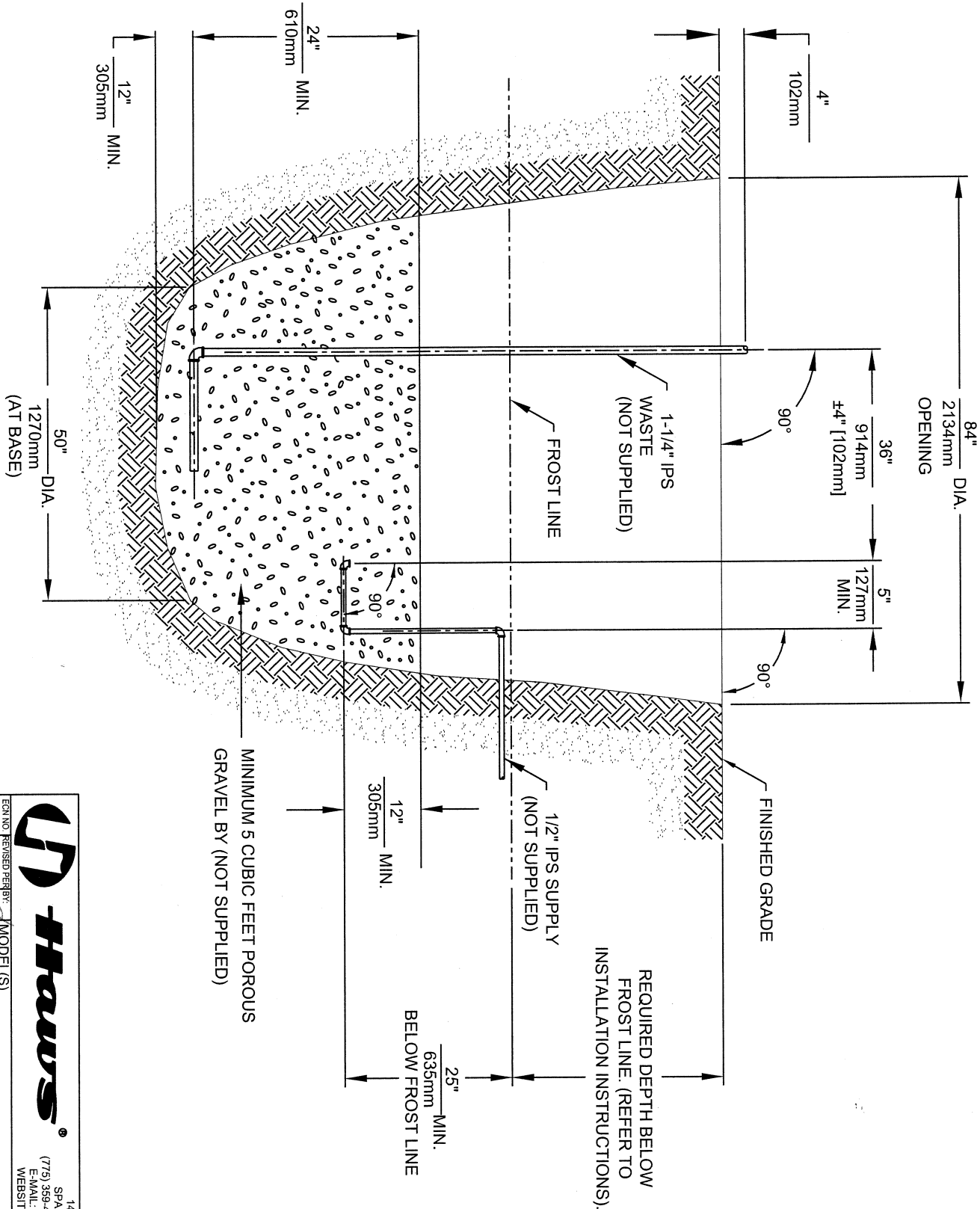
1455 KLEPPLE LANE  
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 E-MAIL: HAWS@HAWS.CO.COM  
 WEBSITE: WWW.HAWS.CO.COM

MODEL(S)  
 6518FR  
 VALVE, FREEZE RESISTANT, SINGLE

SCALE: 1/8" = 1"

DRAWING TYPE: INSTALLATION

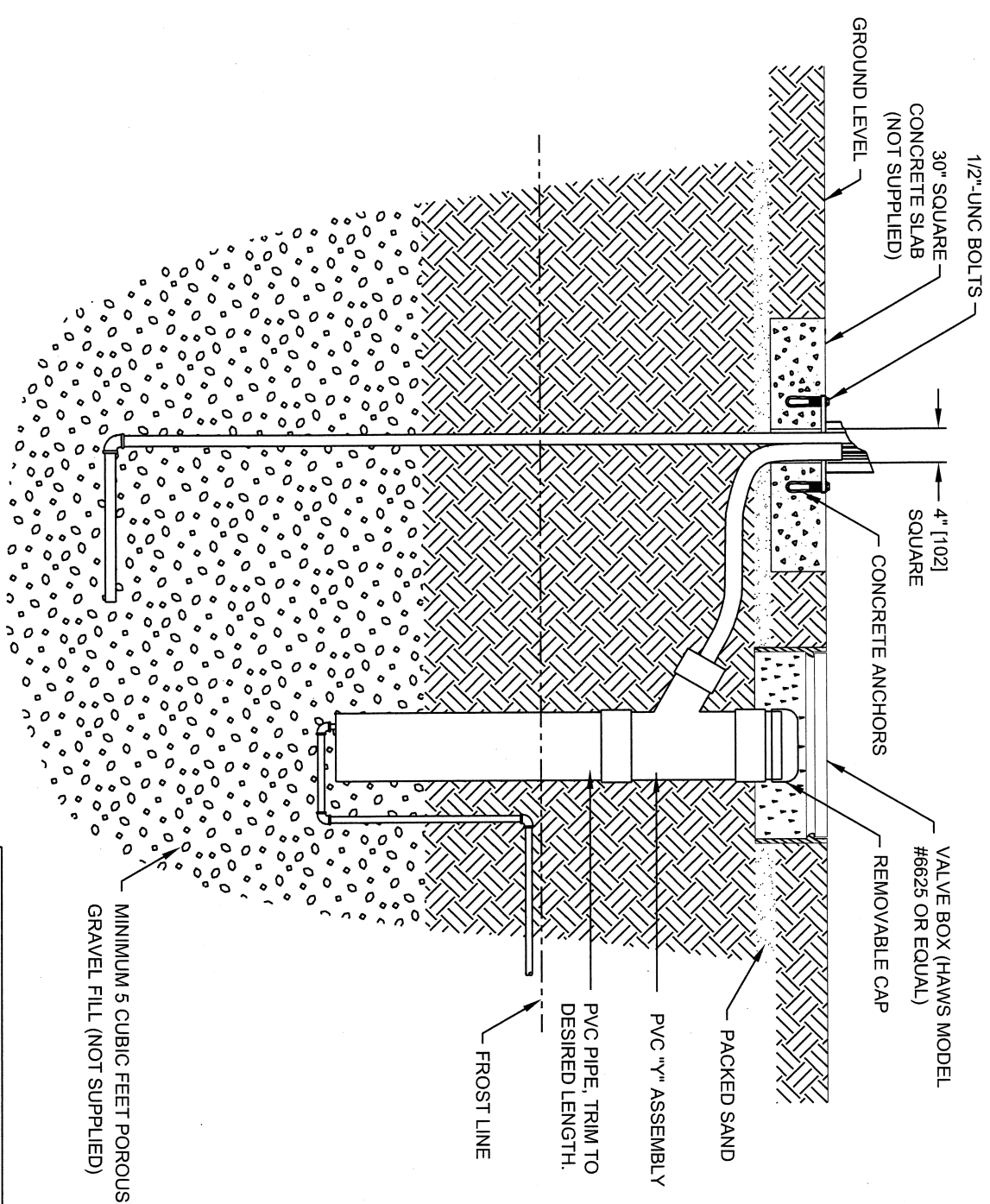
PART NUMBER: 0002077777.D  
 DRAWING NO.: 08805A00  
 REV: 1/7



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EQN NO.	REVISED PER:	MODEL(S)	PART NUMBER:
EQN: 4894	HM	6518FR	0002077777.D
DATE:	CHKD:	VALVE, FREEZE RESISTANT, SINGLE	DRAWING NO.: 08805A00
1/2/99	HM		REV: 17
APPROVER:	DATE:	SCALE: 1/2"	DRAWING TYPE: INSTALLATION
			SHEET 2 OF 3



MINIMUM 5 CUBIC FEET POROUS GRAVEL FILL (NOT SUPPLIED)



**Haws**

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 E-MAIL: HAWS@HAWSCO.COM  
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ECN NO.	REVISED PER BY:	MODEL(S)	PART NUMBER:
4894	HM	6518FR	0002077777.D
DATE:	CHKD:	VALVE, FREEZE RESISTANT, SINGLE	DRAWING NO.:
12/20	HM		08805A00
APPROVED:	DATE:	SCALE: 1/2"	REV:
		DRAWING TYPE: INSTALLATION	1/7
		SHEET: A	SHEET: 3 OF 3