

**Michigan Department of Environmental Quality  
Well Construction Unit**

# Steel Casing Specifications Comparison

<b>SCOPE</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
<p>Seamless/Welded Black and Hot-Dipped Galvanized Steel Pipe</p> <p><u>Type F:</u> furnace-butt welded, continuous welded</p> <p><u>Type E:</u> electric-resistance welded (Grade A or B)</p> <p><u>Type S:</u> seamless, (Grade A or B)</p>	<p>Seamless Carbon Steel Pipe-High Temperature Service with ANSI B36.10 wall thickness (Grade A or B)</p>	<p>Threaded/Coupled Carbon Steel Pipe</p> <p><u>Type I:</u> "Drive Pipe, seamless or electric resistance welded (Grade A or B)</p> <p><u>Type II:</u> Water Well Reamed and Drifted Pipe", seamless or electric resistance welded (Grade A or B) or furnace-butt welded</p> <p><u>Type III:</u> Driven Well Pipe" seamless or electric-resistance welded (Grade A or B) or furnace-butt welded (Type F)</p> <p><u>Type IV:</u> "Water-Well Casing Pipe" seamless or electric-resistance welded, (Grade A or B) or furnace-butt welded (Type F)</p>	<p>Seamless/Welded Steel Line Pipe</p> <p><u>Types of Pipe</u></p> <p><u>Grade A or B:</u> common type of API pipe used as casing</p> <p><u>Other Grades:</u> double-strength, not applicable as well casing</p>

<b>SIZE</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
1/8 in. to 26 in. NPS	1/8 in. to 48 in. NPS	1 in. to 16 in. NPS	1/8 in. to 60 in. NPS

<b>TERMINOLOGY</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
None	None	<p>Imperfection - any discontinuity or irregularity</p> <p>Defect - any imperfection causing rejection</p>	<p>Shall - mandatory</p> <p>Should - recommended</p> <p>May - optional</p>

# Steel Casing Specifications Comparison

## MANUFACTURE

### ASTM A53

Open Hearth, Electric Furnace  
Basic Oxygen Cast in ingots  
or strand cast - Tempering or  
other processing required on  
ERW weld seam (Grade B) to  
remove untempered martensite

### ASTM A106

Open Hearth, Electric Furnace,  
Basic Oxygen Cast in ingots  
or strand cast

### ASTM A589

Open Hearth, Electric Furnace,  
Basic Oxygen cast in ingots  
or strand cast

### API 5L

Seamless - steel hot worked  
to form tubular product  
without welded seam  
welded - without filler

- 1) Continuous: skelp heated  
and mech. pressed together  
to form weld (butt-weld)  
2) Electric: steel mechanically  
pressed together with heat  
to form weld generated by  
electric current  
welded - with filler  
1) Submerged Arc:  
coalescence by heating with  
electric arc, shielded by  
blanket of granular fusible  
material, filler from  
electrodes, no pressure

## CHEMICAL COMPOSITION

### ASTM A53

Composition,	Max %	
	Grade A	Grade B & Type F
Carbon	0.25	0.30
Manganese	0.95	1.20
Phosphorus	0.05	0.05
Sulfur	0.045	0.045
Copper ●	0.40	0.40
Nickel ●	0.40	0.40
Chromium ●	0.40	0.40
Molybdenum ●	0.15	0.15
Vanadium ●	0.08	0.08

● Combination of these elements  
shall not exceed 1.00%

### ASTM A106

Composition,	Max %		
	Grade		
	A	B	C
Carbon	0.25	0.30	0.35
Manganese ▲	0.27	0.29	0.29
Phosphorus	0.035	0.035	0.035
Sulfur	0.035	0.035	0.035
Silicon, Min.	0.10	0.10	0.10
Copper ●	0.40	0.40	0.40
Nickel ●	0.40	0.40	0.40
Chromium ●	0.40	0.40	0.40
Molybdenum ●	0.15	0.15	0.15
Vanadium ●	0.08	0.08	0.08

▲ See specification for range

### ASTM A589

Composition:	Max %
Phosphorus	0.05
Sulfur	0.06

### API 5L

Composition:	Max %
Carbon	0.21 - 0.27
Manganese	0.60 - 1.15
Phosphorus	0.04 - 0.08
Sulfur	0.06

Max. % dependent on grade  
of pipe

See specification for details.

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# Steel Casing Specifications Comparison

## ANALYSIS

### ASTM A53

Chemical analysis shall conform to ASTM A 751

### ASTM A106

Chemical composition of heat shall be performed by manufacturer

### ASTM A589

Chemical composition of heat shall be performed by manufacturer

### API 5L

Chemical composition of heat shall be performed by manufacturer

NOTE: Chemical analysis requirements are similar through all specifications

Refer to individual specification for details.

## TENSILE REQUIREMENTS

### ASTM A53

Tensile Strength (min. psi):

Type F	Types E and S	
	Grade A	Grade B
48,000	48,000	60,000

Yield Strength (min. psi):

Type F	Types E and S	
	Grade A	Grade B
30,000	30,000	35,000

### ASTM A106

Tensile Strength (min. psi):

Grade A	Grade B	Grade C
48,000	60,000	70,000

Yield Strength (min. psi):

Grade A	Grade B	Grade C
30,000	35,000	40,000

### ASTM A589

Tensile Strength (min. psi):

Butt Welded	Grade A	Grade B
45,000	48,000	60,000

Yield Strength (min. psi):

Butt Welded	Grade A	Grade B
25,000	30,000	35,000

### API 5L

Tensile Strength (min. psi):

Grade A	Grade B
48,000	60,000

Yield Strength (min. psi):

Grade A	Grade B
30,000	35,000

(For other pipe grades, consult API specification)

Elongation in 2": Similar values computed with same equation,  
Higher Tensile Strength = Lower Elongation

## BENDING REQUIREMENTS

### ASTM A53

90°Cylindrical Mandrel 12x Pipe Diameter/No Cracks

### ASTM A106

Standard: 90 /Cylindrical Mandrel 12x Pipe Diameter/No Cracks  
Close Coiling: 180 /Cylindrical Mandrel 8x NPS/Without Failure

### ASTM A589

None

### API 5L

90°Cylindrical Mandrel 12x Pipe Diameter/No Cracks

# **Steel Casing Specifications Comparison**

## **FLATTENING TEST**

### **ASTM A53**

Required on pipe over 2 in.  
Separately addresses seamless, electric-resistance welded and continuous welded methods.  
Butt weld: H = 60% O.D.  
Elec.-Resist: H = 33% O.D.  
Seamless: Flat to H  
("H" is defined by equation)

### **ASTM A106**

Addresses seamless/centrifugally cast pipe and welded pipe H as defined for seamless in A 53

### **ASTM A589**

NONE

### **API 5L**

Required on electric or continuous-welded pipe  
**Grade 25:** Flatten to 75% O.D. without weld break; 60% O.D. without cracks except weld  
**Other Grades:** Flatten 67% O.D. without weld break; 33% O.D. without break except weld

## **HYDROSTATIC TEST**

### **ASTM A53**

Each length must be tested by the manufacturer  
Not Required on Seamless Pipe

### **ASTM A106**

Required unless purchaser specifies no hydrostatic testing or NDE in lieu of hydrostatic testing

### **ASTM A589**

Each length of pipe must be tested the mill

### **API 5L**

Similar requirements and pressures to ASTM A 589

Test Pressures: depends on weight or schedule, grade and manufacture  
Similar Pipe = Similar Pressure

## **NONDESTRUCTIVE ELECTRIC TESTS (NDE)**

### **ASTM A53**

ERW Pipe: must be tested  
SEAMLESS Pipe: NDT may be used as alternative to hydrostatic testing - Pipe marked "NDE"

### **ASTM A106**

NDE may be used as alternative to hydrostatic testing - Pipe must be marked "NDE"

### **ASTM A589**

NONE

### **API 5L**

Required Grade A, B  
**Submerged Arc:** inspected by radiological and ultrasonic methods  
**Electric Weld:** inspected by ultrasonic or electromagnetic  
**Gas-Metal Arc:** inspected by ultrasonic and radiological methods

[NOTE: NDT is test of structural integrity based upon electrical/ultrasonic or radiological continuity]

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## **Steel Casing Specifications Comparison**

### NUMBER OF TESTS

#### ASTM A53

Seamless, ERW: one test for tensile, bending, and flattening for each 500 lengths

Continuous Weld: one test per 50 ton lot

#### ASTM A106

Tensile: Under 6" - 1 test/400 lengths; +6" - 1 test/200

Bend: Under 2" - 1 test/400 lengths or 5% each lot

Flattening: same as tensile test

#### ASTM A589

Similar to A 53

#### API 5L

Full length inspection all pipe

### RETESTS

#### ASTM A53

Failure: results in double test on remaining lots

Second Failure: reject

#### ASTM A106

Failure: one retest allowed

#### ASTM A589

Same As A 53

#### API 5L

Rejection/Retest requirements more complex and stricter than ASTM

### TOLERANCES ON WEIGHTS & DIMENSIONS

#### ASTM A53

##### REQUIRED

Weight:  $\pm 10\%$

Diameter:  $\pm 1\%$

Wall Thickness: not more than 12.5% under thickness listed in specification

#### ASTM A106

##### REQUIRED

Weight:  $\pm 10\%$

Diameter: Variation spec.

Wall Thickness: not more than 12.5% under thickness listed in specification

#### ASTM A589

##### REQUIRED

Weight:  $\pm 5\%$

O.D.:  $\pm 1\%$

I.D.: permit drift to pass

Wall Thickness: not more than 12.5% under thickness listed in specification

#### API 5L

##### REQUIRED

Weight:  $\pm 10\%$ , - 3.5%

Diameter:  $\pm 1\%$

Wall Thickness: not more than 12.5% under and 20% over thickness listed in specification

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# **Steel Casing Specifications Comparison**

<b>LENGTH</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
<p><u>Single-Random</u>: 16 to 22 ft., Not more than 5% jointers <u>Plain-Ends</u>: 5% may be 12 to 16 ft. Extra-Strong and Lighter: varies</p>	<p><u>Single-Random</u>: 16 to 22 ft., 5% 12 to 16 <u>Double-Random</u>: Average 35 ft., min 22 ft., and 5% 16 to 22 Jointers: None allowed</p>	<p>Type I, II, IV: random 16-22 ft. Type III: random 3 - 6 or 6 - 10 ft. subject to order change/negotiation</p>	<p><u>T &amp; C</u>: Nominal 20 ft. Minimum - 16 ft. Maximum - 22.5 ft. Minimum Average - 17.5 ft. <u>T &amp; C</u>: Nominal 40 ft. Minimum - 20 ft. Maximum - 45 ft. Minimum Average - 35 ft. <u>Plain End</u>: Nominal 20 ft. Minimum - 9.0 ft. Maximum - 22.5 ft. Minimum Average 17.5 ft. <u>Plain End</u>: Nominal 40 ft. Minimum - 14 ft. Maximum - 45 ft. Minimum Average - 35 ft.</p>
[NOTE: All lengths subject to order]			

<b>WORKMANSHIP, FINISH &amp; APPEARANCE</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
<p>Requires: inspection, imperfection 12.5% into wall considered defects, removal by grinding if wall thickness OK, repair by welding subject to agreement, pipe to be straight</p>	<p>Same as A 53</p>	<p>Requires: straight and free of defects, allows imperfections less than 12.5% wall, free of burrs, zinc coating/galvanized free of voids</p>	<p>Requires: visual inspection defects include dents, offset of plates, weld bead flaws. Correction includes repair by grinding welding or shortening</p>

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## **Steel Casing Specifications Comparison**

END FINISH			
<p><b><u>ASTM A53</u></b></p> <p><u>Standard Weight or Extra Strong:</u> plain-end with bevel  <u>Double Extra Strong:</u> plain-end square cut  <u>Threaded:</u> requires compliance with ANSI B1.20.1, protection</p>	<p><b><u>ASTM A106</u></b></p> <p><u>NPS 2" or Smaller:</u> plain-end with square cut or beveled  <u>Over 2" NPS:</u> standard weight or extra strong plain-end beveled; over extra strong plain-end square</p>	<p><b><u>ASTM A589</u></b></p> <p><u>Threaded:</u> required of all, protection, dimensions specified in specifications                      (ANSI B1.20.1)</p>	<p><b><u>API 5L</u></b></p> <p>All pipe threaded plain-end, or bell and spigot.  <u>T &amp; C:</u> thread conforming to API Standard 5B, thread protection required.  <u>Plain-End:</u> Beveled                      Minimum Average - 35 ft.</p>

GALVANIZED PIPE			
<p><b><u>ASTM A53</u></b></p> <p>Coated inside/out by hot-dip                      Weight Coat: 1.8 oz/ft<sup>2</sup>                      Test: specified                      Other Test: per on base material</p>	<p><b><u>ASTM A106</u></b></p> <p>NONE</p>	<p><b><u>ASTM A589</u></b></p> <p>Same as A 53</p>	<p><b><u>API 5L</u></b></p> <p>No reference - pipe to be coated to protect against rust</p>

INSPECTION			
<p><b><u>ASTM A53</u></b></p> <p>Purchaser: right to inspect with reasonable facilities to satisfy                      Producer: responsible for performance of inspection and tests as specified</p>	<p><b><u>ASTM A106</u></b></p> <p>NONE</p>	<p><b><u>ASTM A589</u></b></p> <p>Same as A 53</p>	<p><b><u>API 5L</u></b></p> <p>Similar to A 53</p>

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## **Steel Casing Specifications Comparison**

<b>REJECTION</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
Based upon compliance with test and inspection by manufacturer or purchaser. Disposition matter of agreement.	NONE	Same as A 53	Similar to A 53

<b>MARKING</b>			
<b><u>ASTM A53</u></b>	<b><u>ASTM A106</u></b>	<b><u>ASTM A589</u></b>	<b><u>API 5L</u></b>
Legibly marked by rolling, stamping or stencil with: 1) manufacturer 2) kind of pipe, i.e., continuous, electric resistance (Grade A or B), seamless (Grade A or B) 3) specification number 4) length	Legibly marked with: 1) manufacturer 2) specification number 3) grade 4) heat number 5) schedule number 6) length 7) weight (>4")	Legibly marked by rolling, stamping or stencil with: 1) manufacturer 2) type number 3) kind of pipe (i.e., butt-welded, electric resistance, seamless) 4) grade 5) diameter 6) wall thickness 7) specification number 8) length	Legibly stenciled or stamped with: 1) manufacturer 2) "Spec 5L" or "API 5L" 3) size 4) weight/ft. 5) grade 6) process manufacturer 7) test pressure if higher spec. 8) thread type Supplemental requirements exist which are Group specific.

# ***Plastic Casing Markings Required by Michigan Well Code***

Each length of pipe must be legibly marked with all of the following information:

**MANUFACTURER'S NAME &  
RESIN MANUFACTURER**

**IMPACT CLASSIFICATION**

**SIZE & SDR**

**LOT NUMBER  
DATE MANUFACTURED**

**ASTM NUMBER**

**DESIGNATED AS  
WELL CASING**

**NSF MARKING**

**TYPE OF PLASTIC**

# ***Steel Well Casing Markings Required by Michigan Well Code***

Each length of pipe must be legibly marked, by the producing mill, with all of the following information:

**MANUFACTURER'S  
NAME**

**KIND OF PIPE**  
(CONTINUOUS WELDED, ELECTRIC  
RESISTANCE WELDED, OR SEAMLESS)

**WEIGHT  
OR  
SCHEDULE**

**NOMINAL OR  
OUTSIDE DIAMETER**

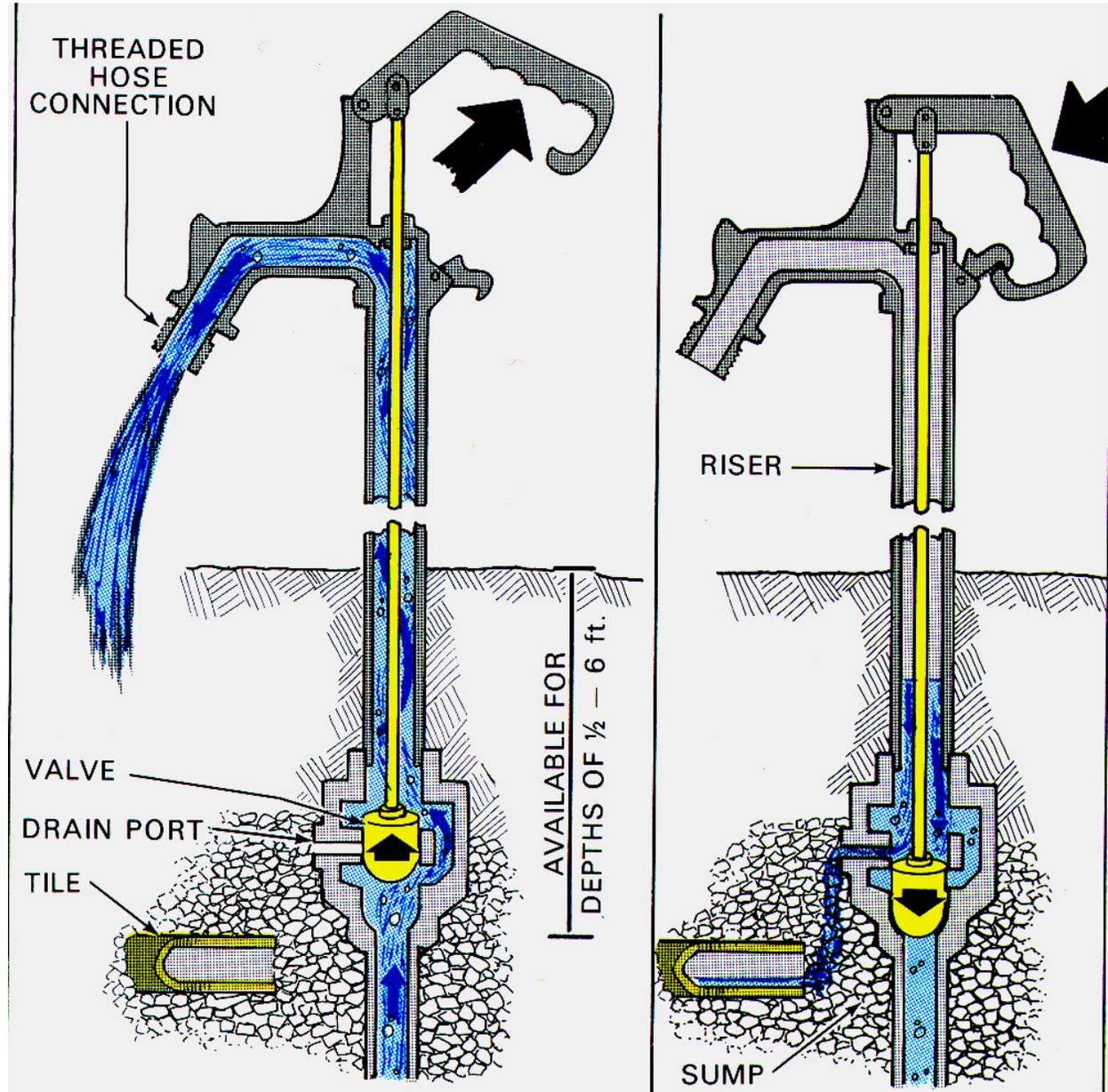
**SPECIFICATION  
NUMBER**

**LENGTH**

**HEAT NUMBER  
OR  
LOT NUMBER**

***Yard Hydrant  
With  
Stop and Waste  
Valve***

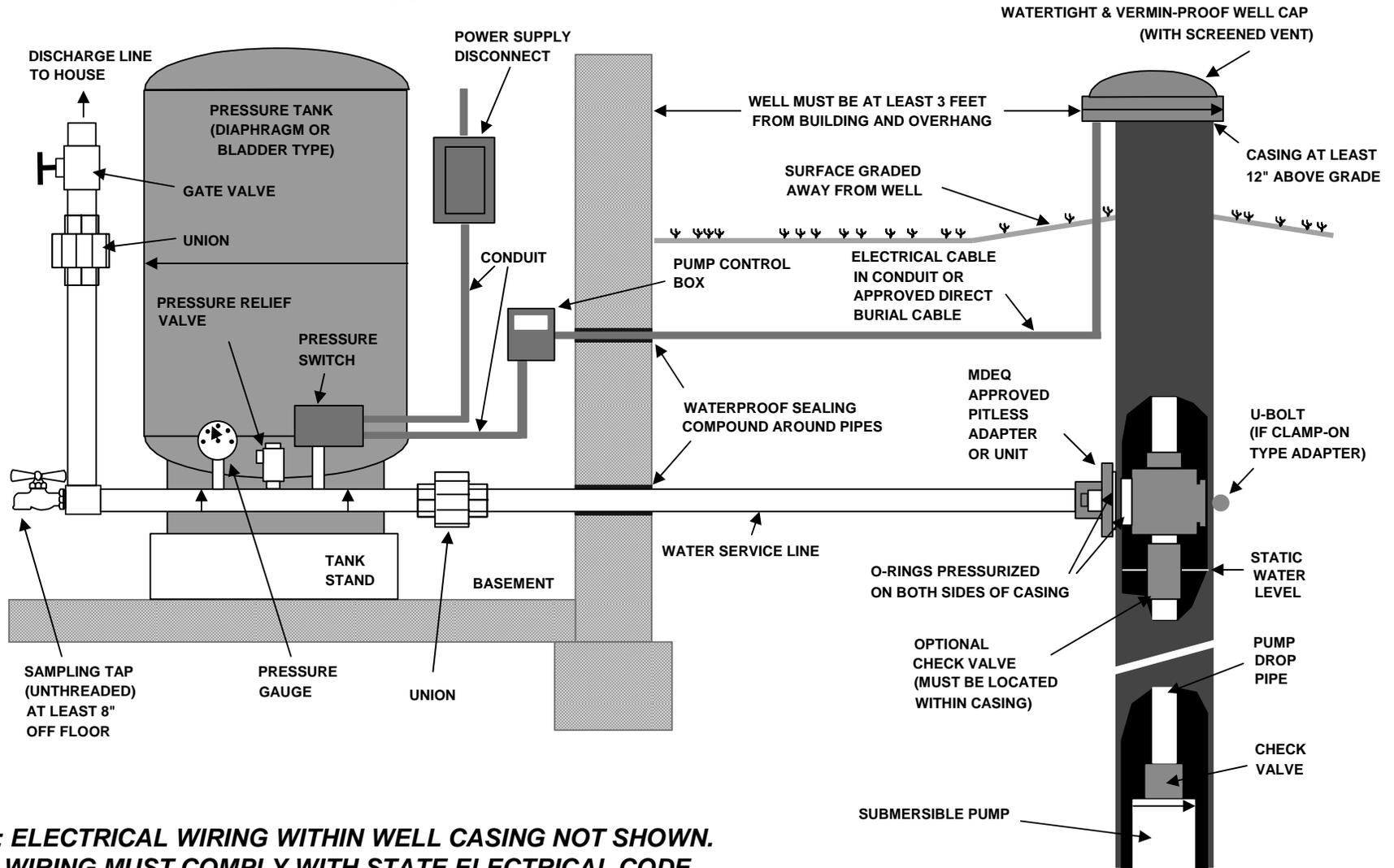
**Not Approved**



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DRINKING WATER AND RADIOLOGICAL PROTECTION DIVISION  
GROUND WATER SUPPLY SECTION - WELL CONSTRUCTION UNIT

# WATER SYSTEM WITH SUBMERSIBLE PUMP

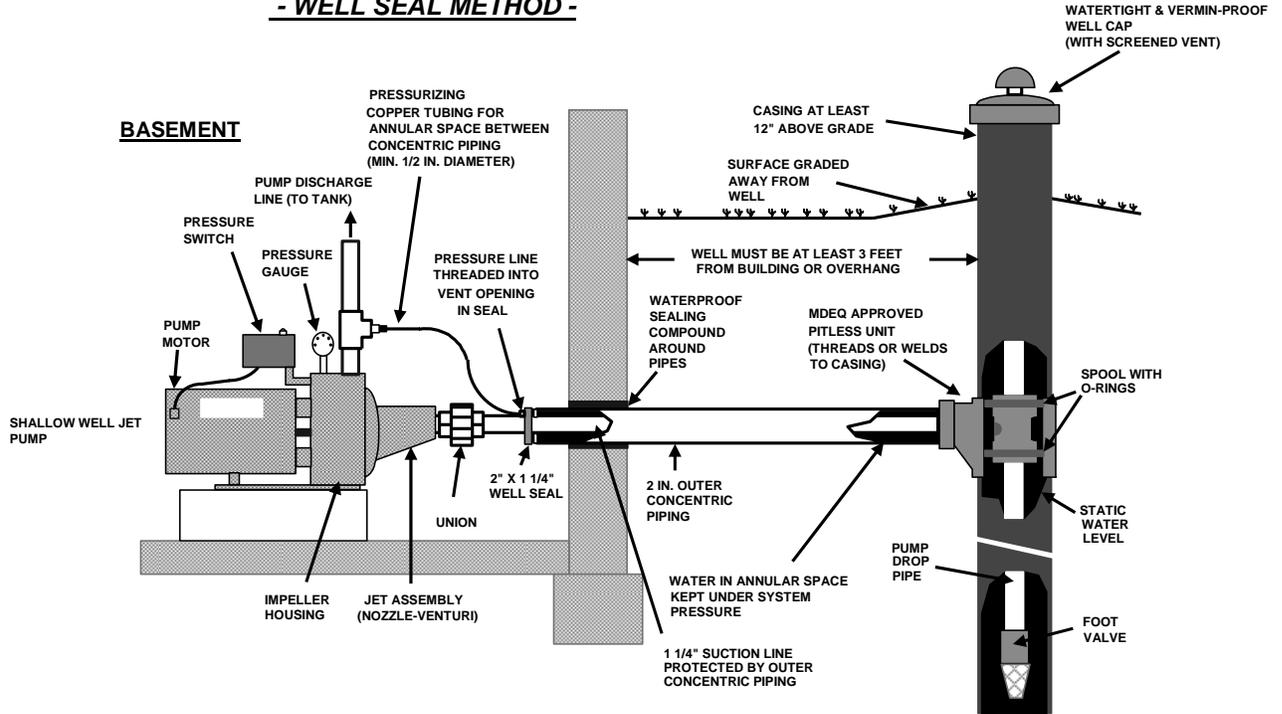
## (Typical Household Installation)



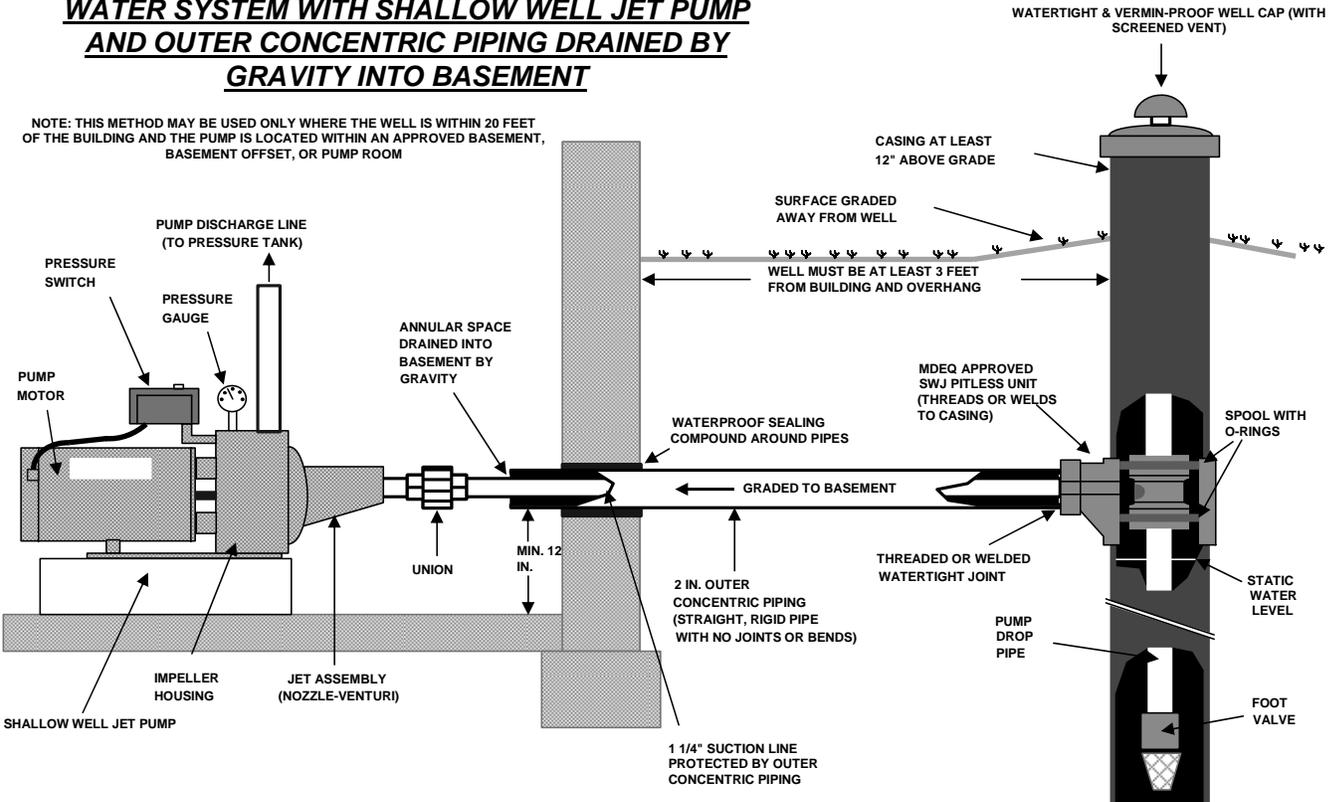
**NOTE: ELECTRICAL WIRING WITHIN WELL CASING NOT SHOWN.  
WIRING MUST COMPLY WITH STATE ELECTRICAL CODE.**

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**WATER SYSTEM WITH SHALLOW WELL JET PUMP AND  
 PRESURIZED CONCENTRIC PIPING  
 - WELL SEAL METHOD -**

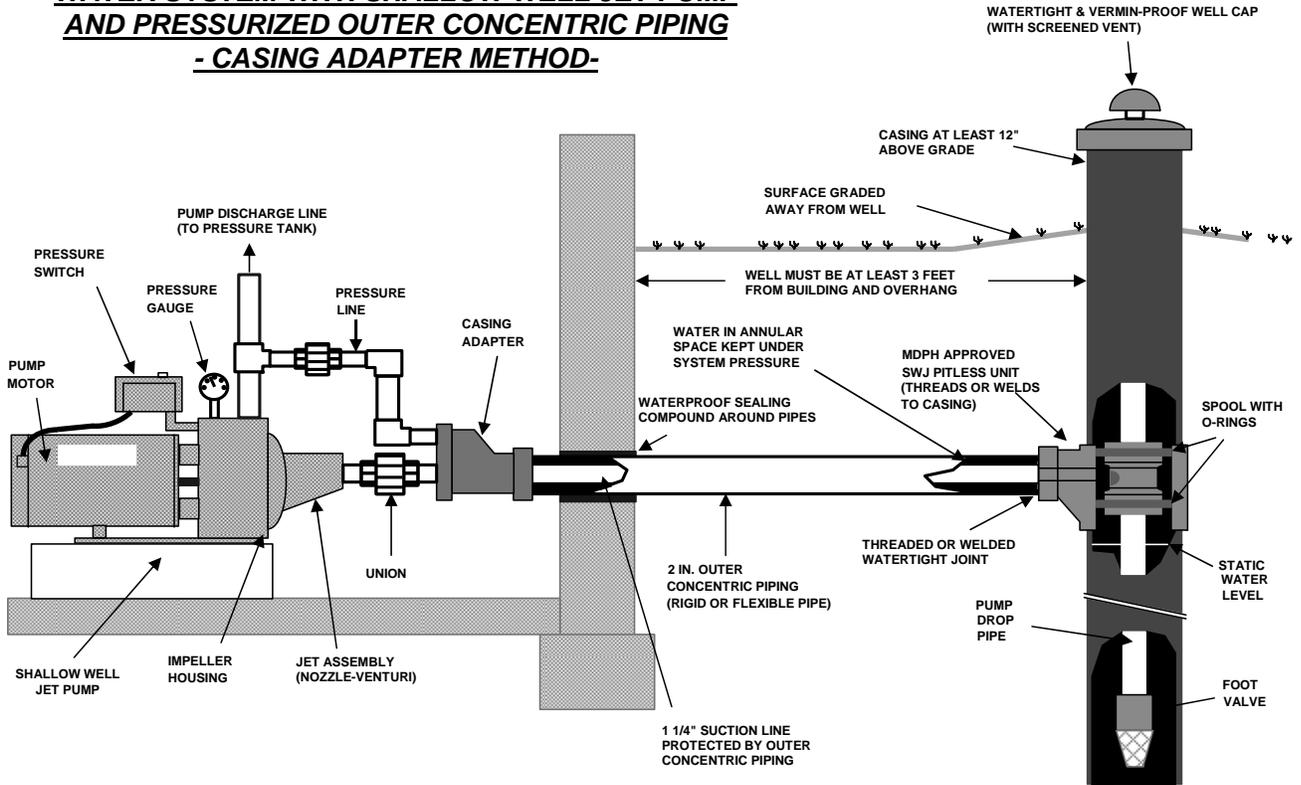


**WATER SYSTEM WITH SHALLOW WELL JET PUMP  
 AND OUTER CONCENTRIC PIPING DRAINED BY  
 GRAVITY INTO BASEMENT**

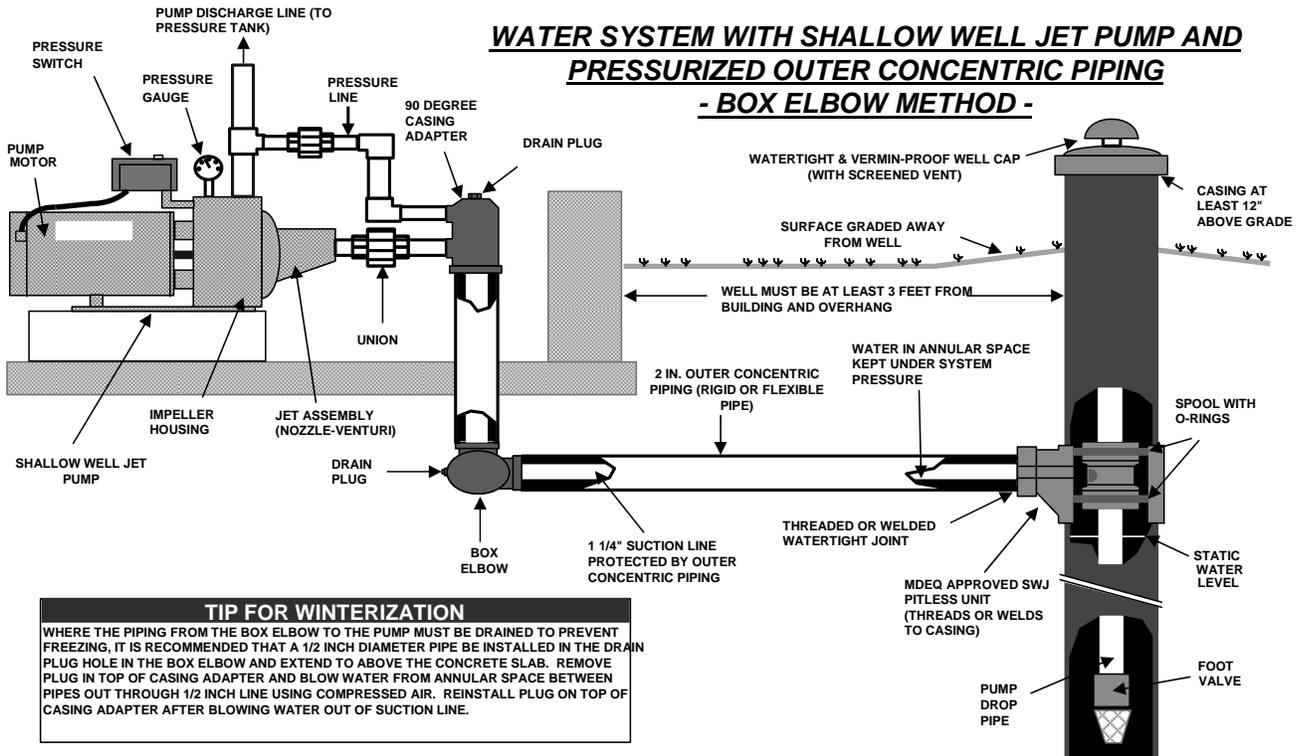


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**WATER SYSTEM WITH SHALLOW WELL JET PUMP  
 AND PRESSURIZED OUTER CONCENTRIC PIPING  
 - CASING ADAPTER METHOD-**



**WATER SYSTEM WITH SHALLOW WELL JET PUMP AND  
 PRESSURIZED OUTER CONCENTRIC PIPING  
 - BOX ELBOW METHOD -**

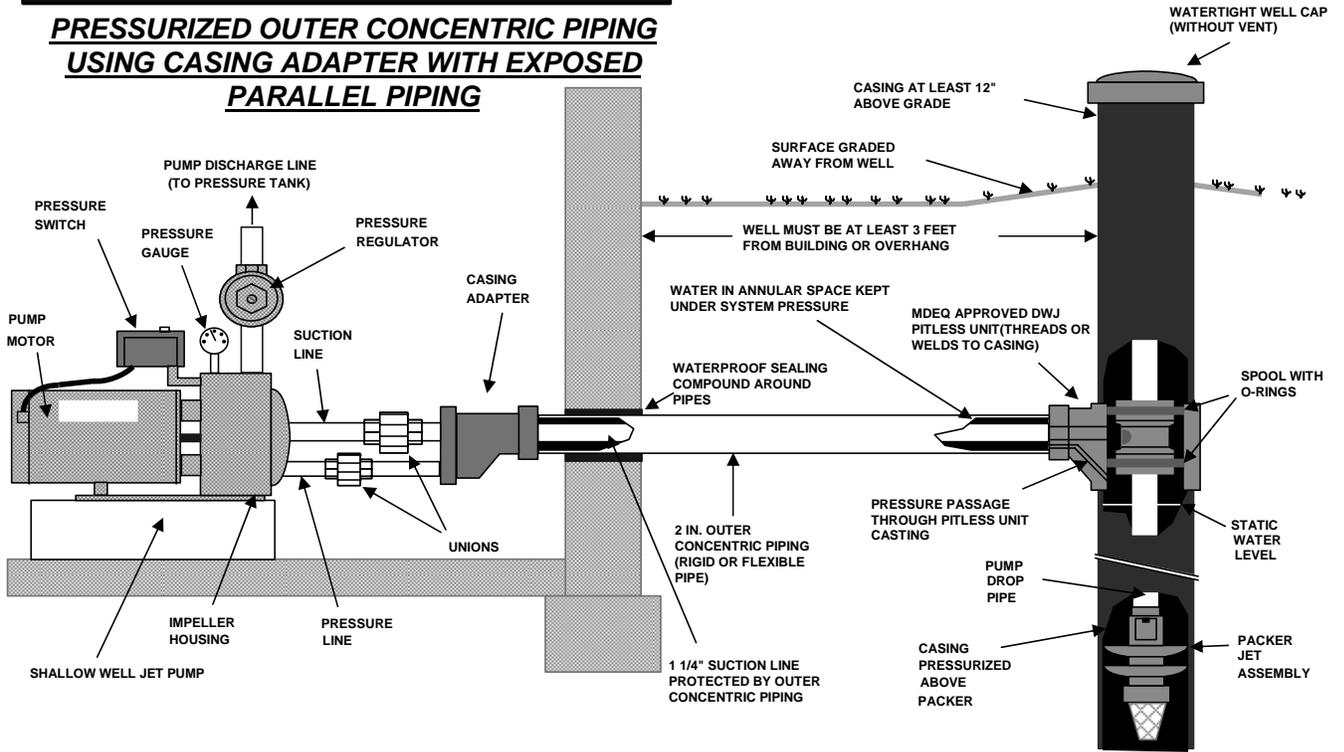


**TIP FOR WINTERIZATION**  
 WHERE THE PIPING FROM THE BOX ELBOW TO THE PUMP MUST BE DRAINED TO PREVENT FREEZING, IT IS RECOMMENDED THAT A 1/2 INCH DIAMETER PIPE BE INSTALLED IN THE DRAIN PLUG HOLE IN THE BOX ELBOW AND EXTEND TO ABOVE THE CONCRETE SLAB. REMOVE PLUG IN TOP OF CASING ADAPTER AND BLOW WATER FROM ANNULAR SPACE BETWEEN PIPES OUT THROUGH 1/2 INCH LINE USING COMPRESSED AIR. REINSTALL PLUG ON TOP OF CASING ADAPTER AFTER BLOWING WATER OUT OF SUCTION LINE.

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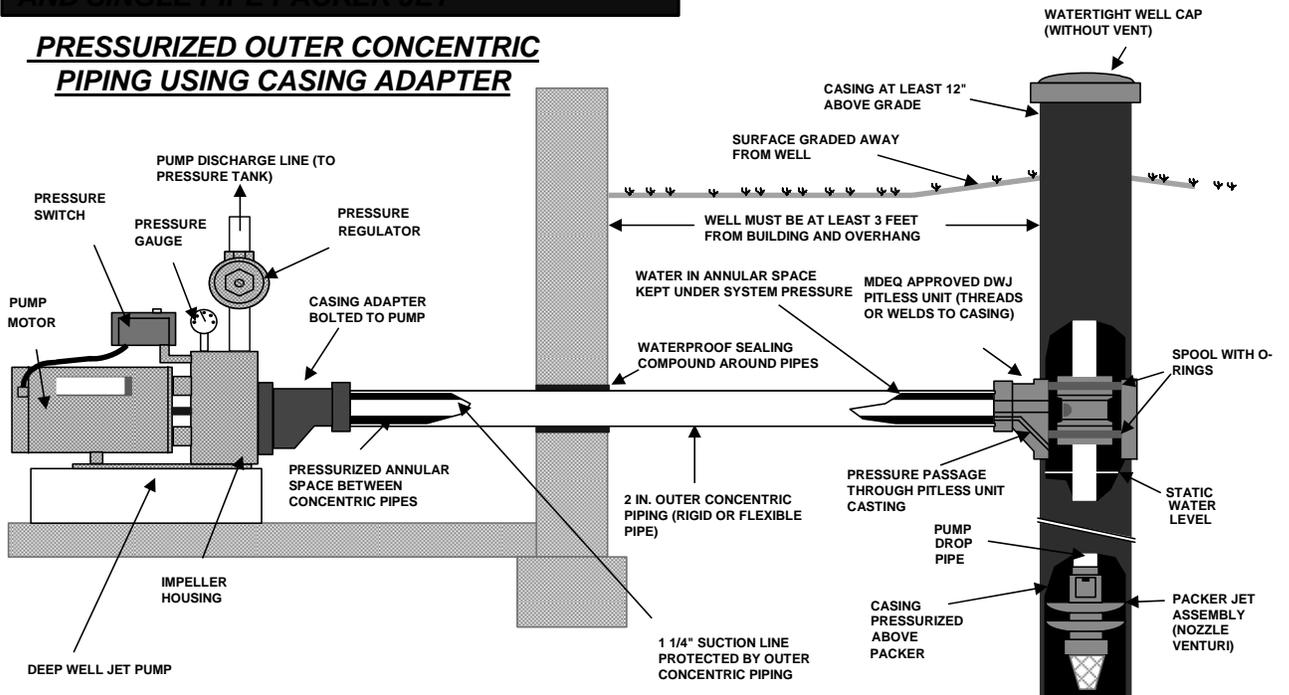
*WATER SYSTEM WITH DEEP WELL JET PUMP AND SINGLE PIPE PACKER JET*

**PRESSURIZED OUTER CONCENTRIC PIPING USING CASING ADAPTER WITH EXPOSED PARALLEL PIPING**



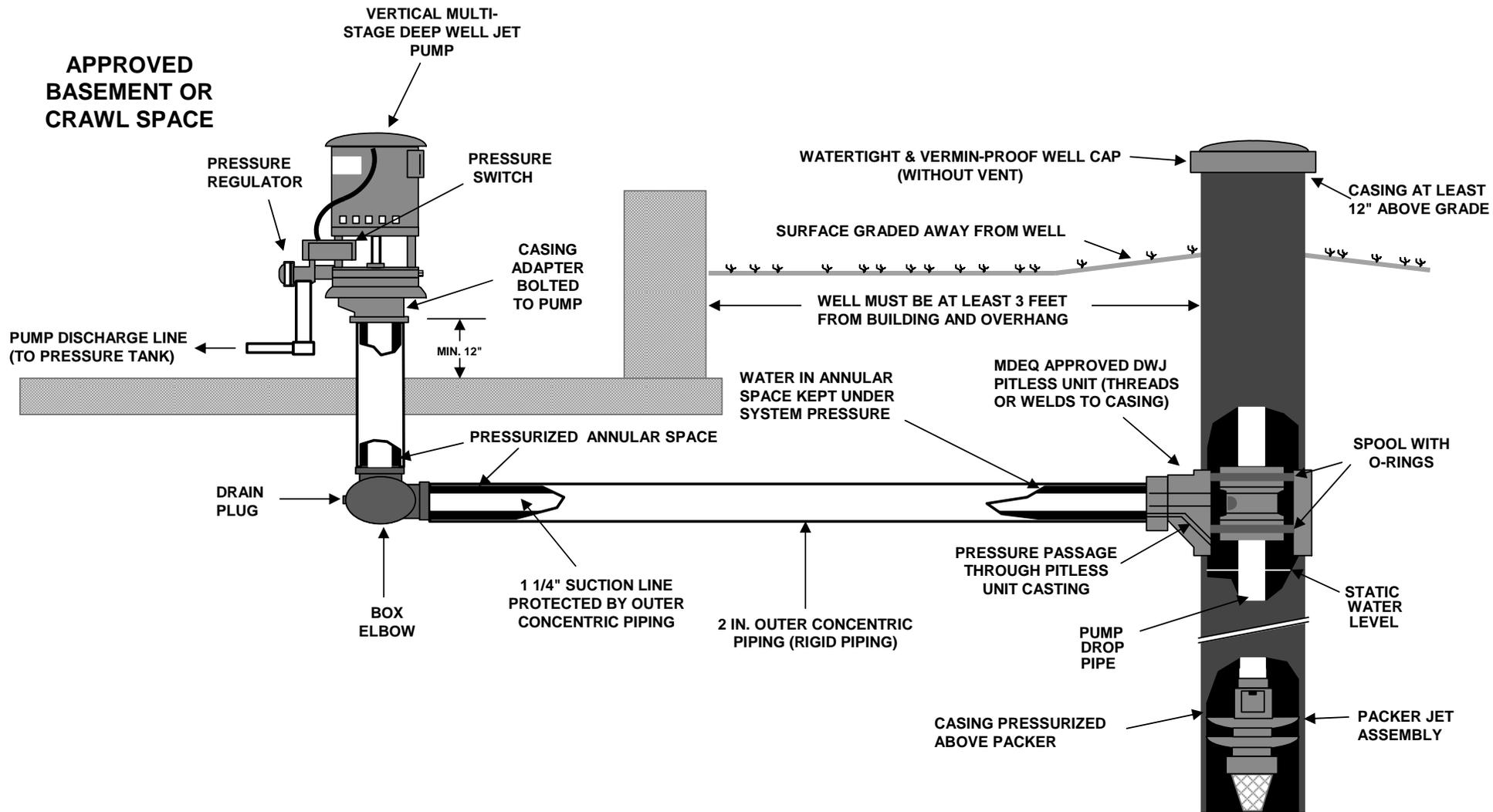
*WATER SYSTEM WITH DEEP WELL JET PUMP AND SINGLE PIPE PACKER JET*

**PRESSURIZED OUTER CONCENTRIC PIPING USING CASING ADAPTER**

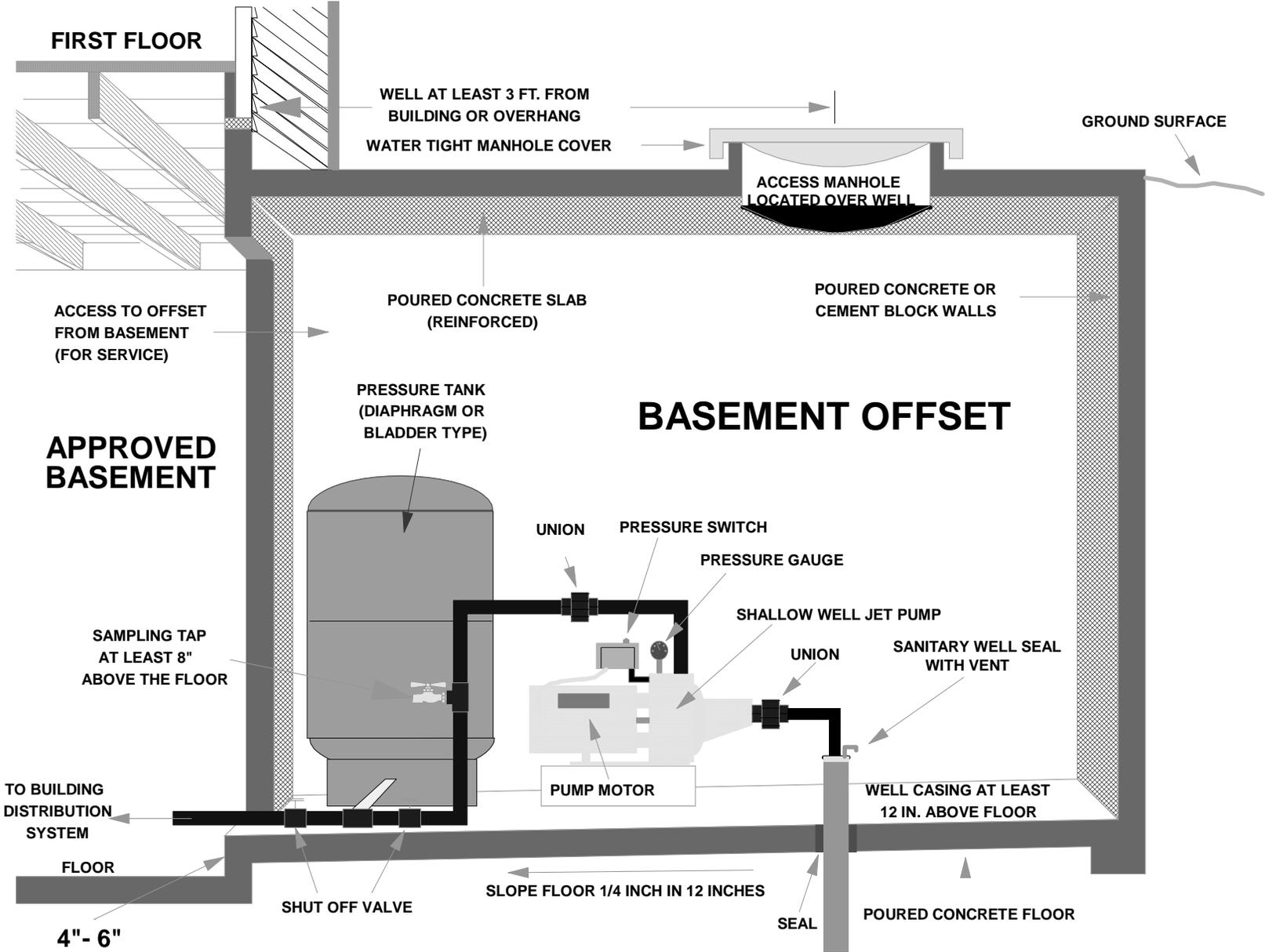


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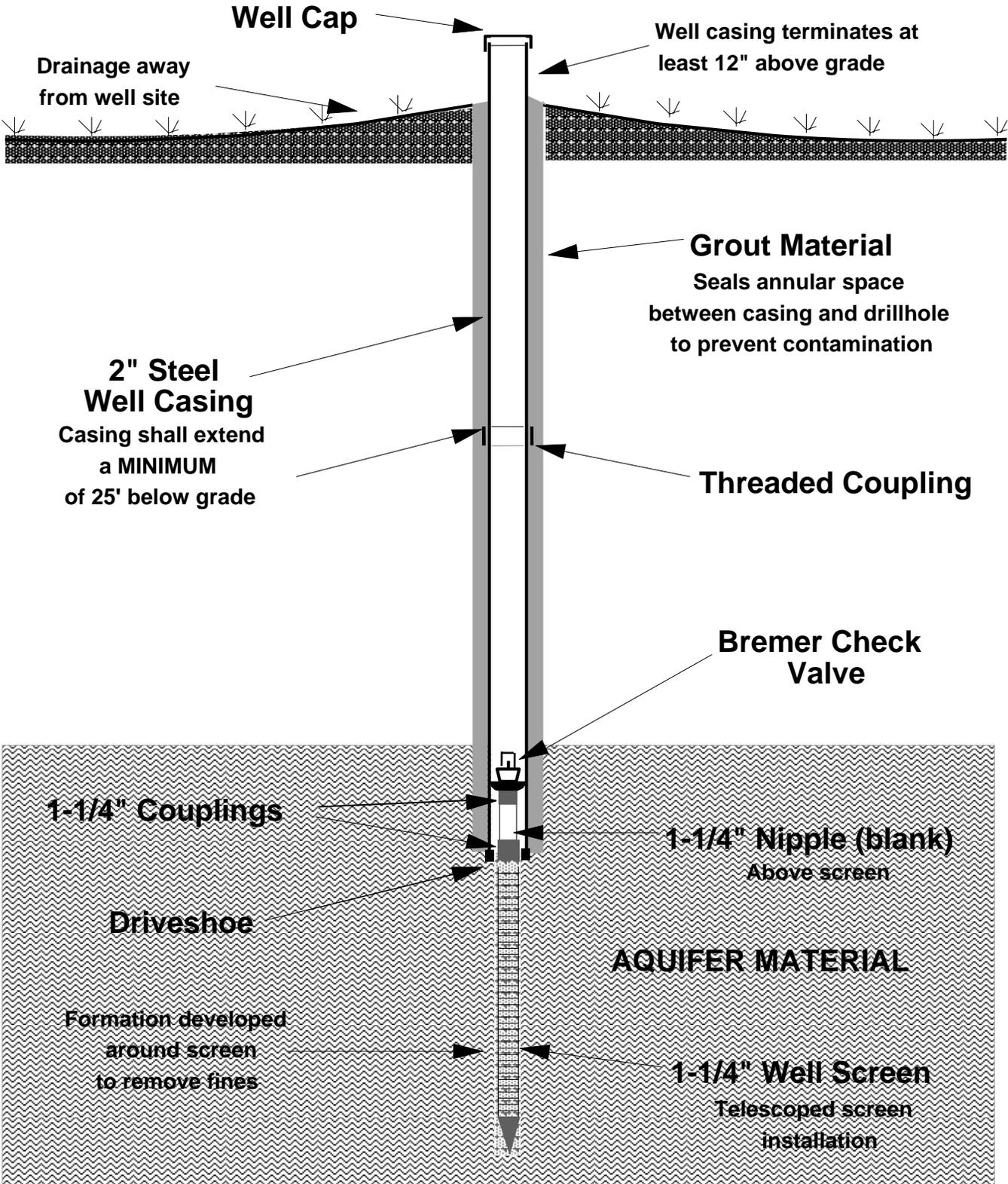
WATER SYSTEM WITH DEEP WELL JET PUMP AND SINGLE PIPE  
PACKER JET WITH PRESSURIZED OUTER CONCENTRIC PIPING -  
BOX ELBOW METHOD -



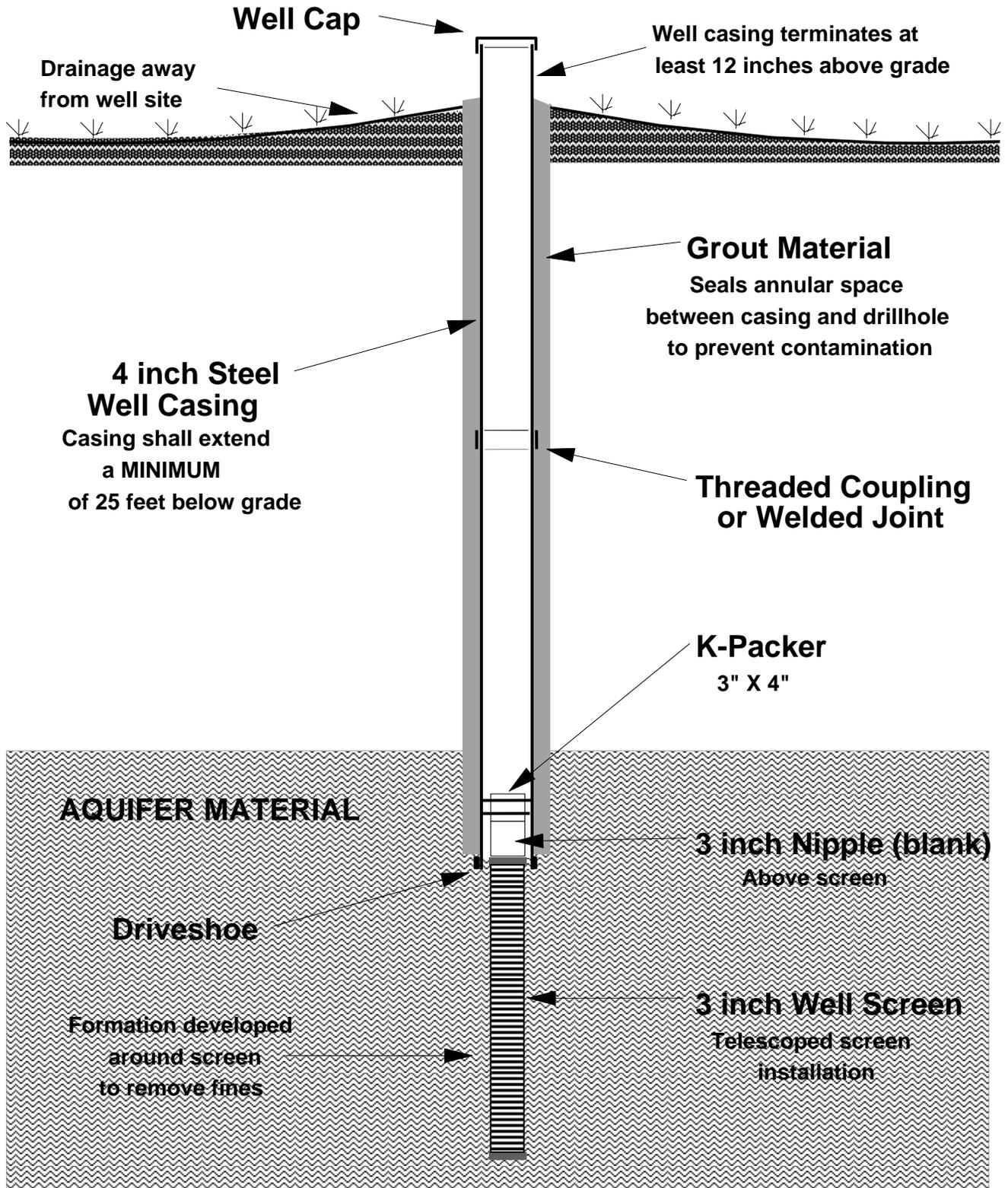
# WATER SYSTEM IN BASEMENT OFFSET



# 2 INCH SCREENED WELL CONSTRUCTION

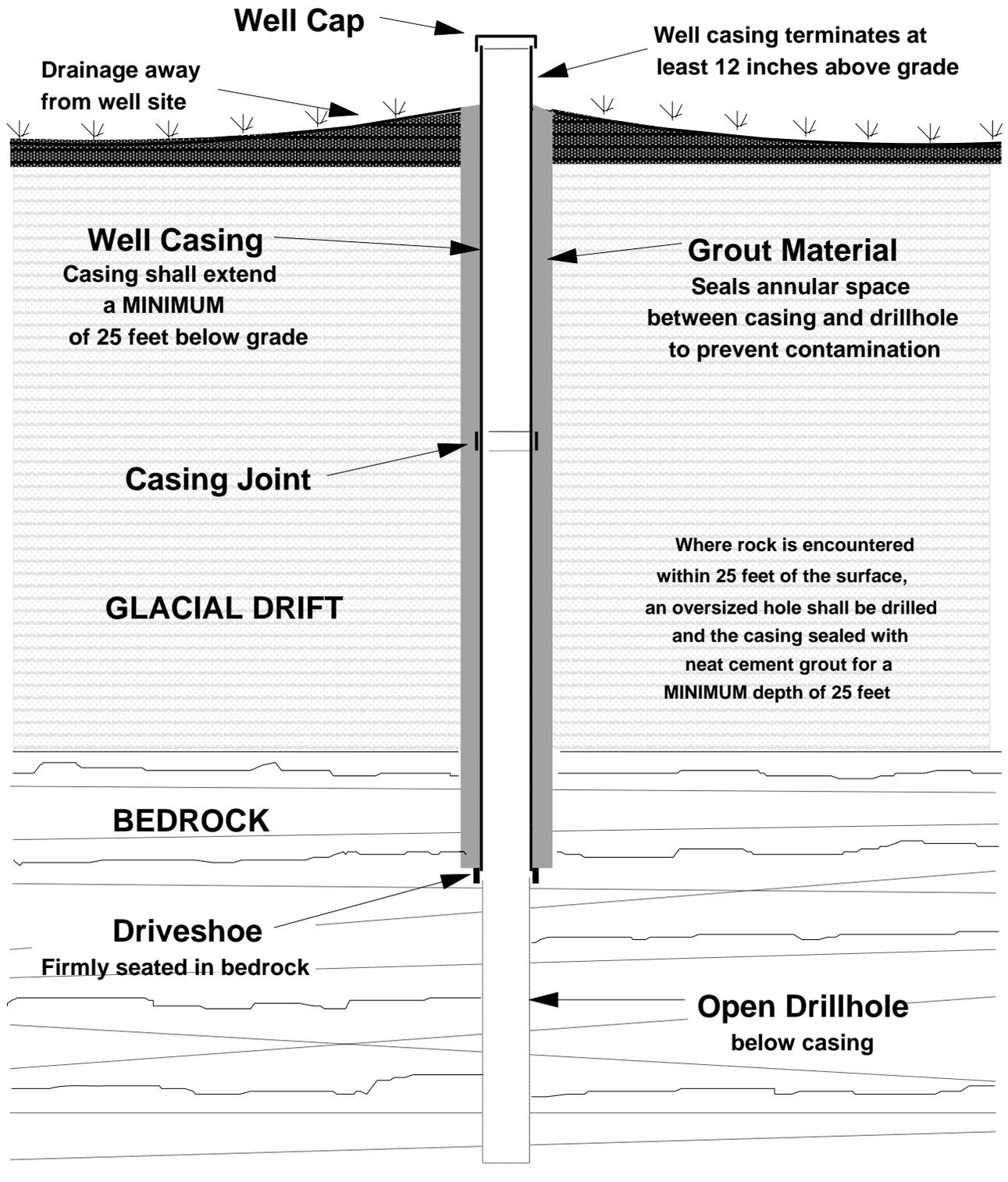


## 4 INCH SCREENED WELL CONSTRUCTION



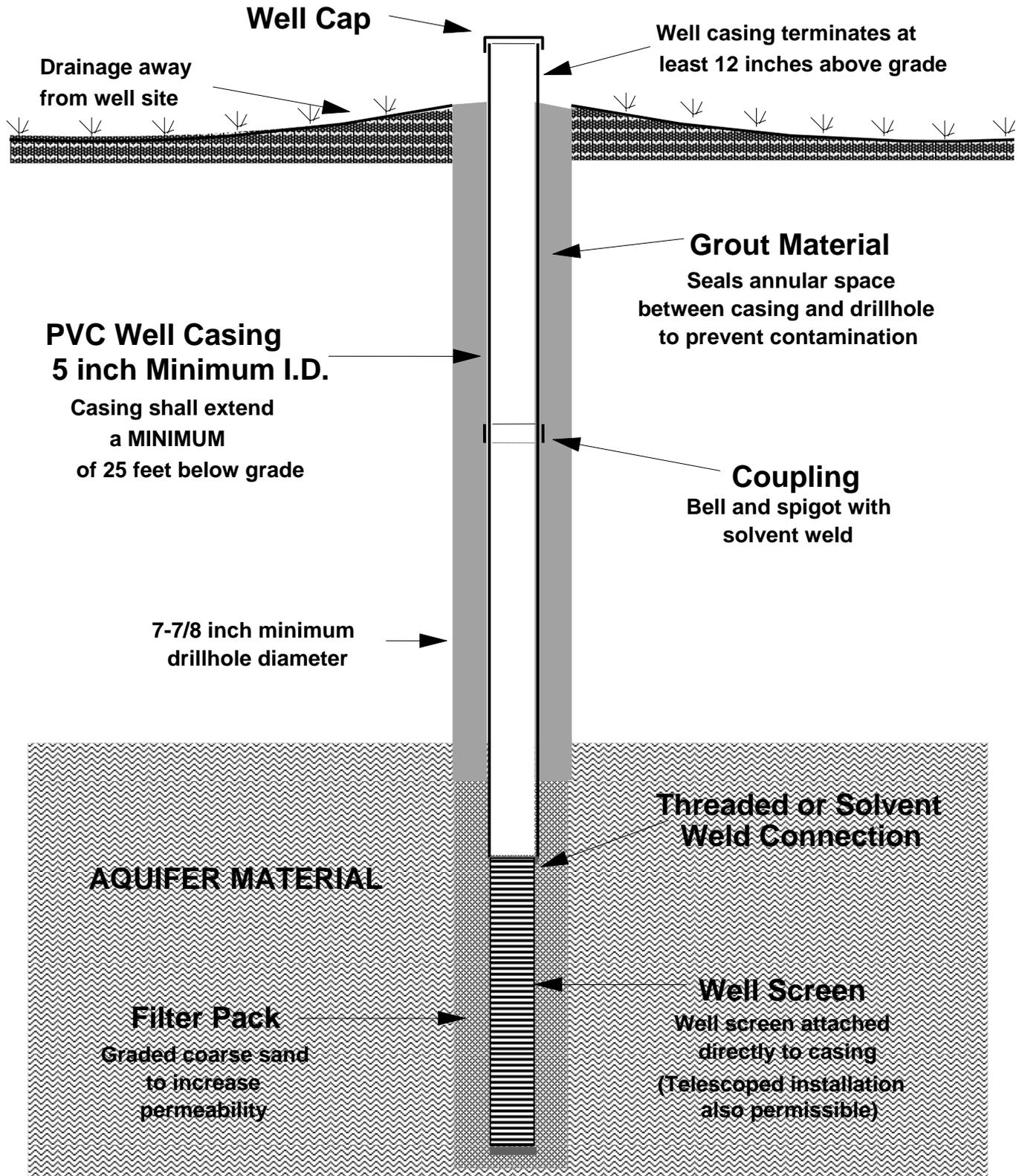
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GROUNDWATER SECTION

# ROCK WELL CONSTRUCTION



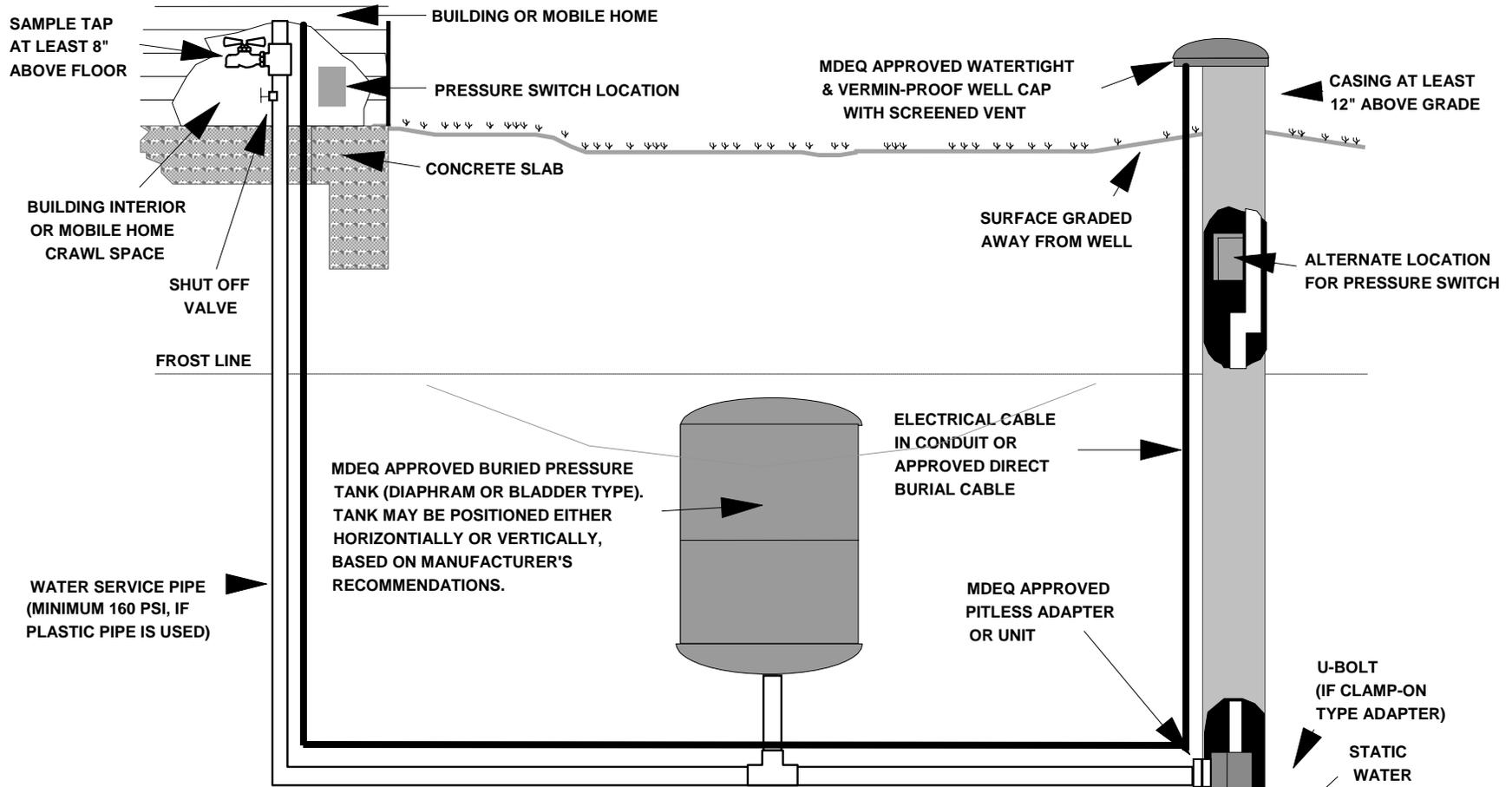
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## 5 INCH FILTER PACK CONSTRUCTION



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# BURIED PRESSURE TANK INSTALLATION

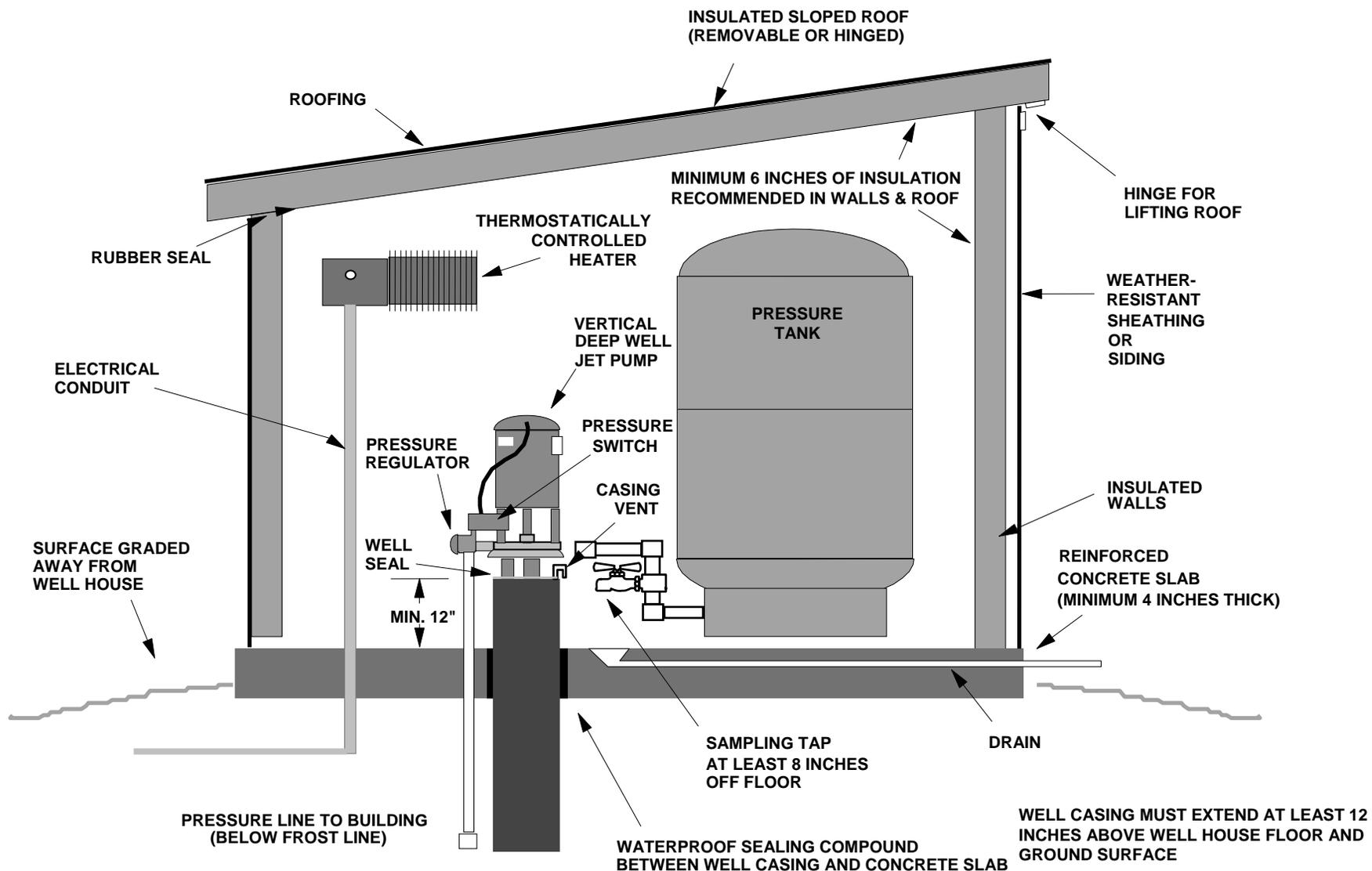


- SUGGESTED PROCEDURES IF WINTERIZING**
1. SHUT OFF ELECTRICAL POWER TO PUMP.
  2. LEAVE SHUT OFF VALVE OPEN FOR ENTIRE PROCEDURE.
  3. OPEN ALL BUILDING FIXTURES, DRAINING ALL PRESSURE FROM SYSTEM. LEAVE FIXTURES OPEN.
  4. OPEN SAMPLE TAP, AND DRAIN ALL WATER FROM BUILDING PIPING.
  5. REMOVE WELL CAP.
  6. LOOSEN PITLESS ADAPTER SEAL (ONLY IF CLAMP-ON TYPE) TO DRAIN WATER SERVICE PIPE INTO WELL.
  7. RETIGHTEN PITLESS ADAPTER SEAL, AND REINSTALL CAP.
  8. CLOSE SAMPLING TAP AND ALL BUILDING FIXTURES.

- O-RINGS PRESSURIZED ON BOTH SIDES OF CASING
- OPTIONAL CHECK VALVE (MUST BE LOCATED WITHIN CASING)
- SUBMERSIBLE PUMP
- U-BOLT (IF CLAMP-ON TYPE ADAPTER)
- STATIC WATER LEVEL
- PUMP DROP PIPE
- CHECK VALVE

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# ABOVE GRADE WELL HOUSE CONSTRUCTION





## WELL CONSTRUCTION UNIT STAFF

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517/241-1377  
[pettisc@michigan.gov](mailto:pettisc@michigan.gov)

Mailing Address: Department of Natural Resources & Environment  
Environmental Resource Management Division  
Drinking Water & Environmental Health Section  
Well Construction Unit  
525 West Allegan  
P.O. Box 30241  
Lansing, Michigan 48909-7741

Fax: 517/241-1328

Website: [www.michigan.gov/deqwaterwellconstruction](http://www.michigan.gov/deqwaterwellconstruction)

## LOCAL HEALTH DEPARTMENT DIRECTORY

[Allegan County Health Dept.](#)

3255 122nd Ave., Suite 200  
Allegan, MI 49010  
[www.allegancounty.org](http://www.allegancounty.org)

[Bay County Health Dept.](#)

Washington Park Plaza  
1212 Washington Ave.  
Bay City, MI 48708-5994  
[www.co.bay.mi.us](http://www.co.bay.mi.us)

[Berrien County Health Dept.](#)

769 Pipestone St.  
P.O. Box 706  
Benton Harbor, MI 49023-0706  
[www.berriencounty.org/healthdept](http://www.berriencounty.org/healthdept)

[Calhoun County Dept. of Public Health](#)

190 E. Michigan Ave., Suite A-100  
Battle Creek, MI 49014  
[www.calhouncountymi.gov](http://www.calhouncountymi.gov)

[Chippewa County Health Dept.](#)

508 Ashmun St., Suite 120  
Sault Ste. Marie, MI 49783  
[www.chippewahd.com](http://www.chippewahd.com)

[Dickinson-Iron District Health Dept.](#)

601 Washington Ave.  
Iron River, MI 49935  
[www.didhd.org](http://www.didhd.org)

[District Health Dept. #4](#)

100 Woods Cir.  
Alpena, MI 49707  
[www.dhd4.org](http://www.dhd4.org)

[Genesee County Health Dept.](#)

630 S. Saginaw St.  
Flint, MI 48502-1540  
[www.gchd.us](http://www.gchd.us)

[Barry-Eaton District Health Dept.](#)

1033 Health Care Dr.  
Charlotte, MI 48813  
[www.barryeatonhealth.org](http://www.barryeatonhealth.org)

[Benzie-Leelanau District Health Dept.](#)

6051 Frankfort Hwy, Suite 100  
Benzonia, MI 49616  
[www.bldhd.org](http://www.bldhd.org)

[Branch-Hillsdale-St. Joseph Community Health Agency](#)

Human Services Building  
570 Marshall Rd.  
Coldwater, MI 49036  
[www.bhsj.org](http://www.bhsj.org)

[Central Michigan District Health Dept.](#)

2012 E. Preston Ave.  
Mt. Pleasant, MI 48858  
[www.cmdhd.org](http://www.cmdhd.org)

[City of Detroit Health Dept.](#)

Herman Kiefer Health Complex  
1151 Taylor, Building 4  
Detroit, MI 48202  
[www.ci.detroit.mi.us/health/default.htm](http://www.ci.detroit.mi.us/health/default.htm)

[District Health Dept. #2](#)

630 Progress St.  
West Branch, MI 48661  
[www.dhd2.org](http://www.dhd2.org)

[District Health Dept. #10](#)

521 Cobbs Street  
Cadillac, MI 49601  
[www.dhd10.org](http://www.dhd10.org)

[Grand Traverse County Health Dept.](#)

2650 LaFranier Rd.  
Traverse City, MI 49686  
[www.co.grand-traverse.mi.us](http://www.co.grand-traverse.mi.us)

[Huron County Health Dept.](#)

1142 S. Van Dyke  
Bad Axe, MI 48413  
[www.hchd.us](http://www.hchd.us)

[Ionia County Health Dept.](#)

175 E. Adams St.  
Ionia, MI 48846  
[www.ioniacounty.org](http://www.ioniacounty.org)

[Kalamazoo County Health and Community Services Dept.](#)

3299 Gull Rd., P.O. Box 42  
Nazareth, MI 49074-0042  
[www.kalcounty.com/hsd](http://www.kalcounty.com/hsd)

[Lapeer County Health Dept.](#)

1800 Imlay City Road  
Lapeer, MI 48446  
[www.lapeercounty.org](http://www.lapeercounty.org)

[Livingston County Dept. of Public Health](#)

2300 E. Grand River Ave., Suite 102  
Howell, MI 48843-7578  
[www.lchd.org](http://www.lchd.org)

[Macomb County Health Dept.](#)

43525 Elizabeth Rd.  
Mt. Clemens, MI 48043  
[www.macombcountymi.gov/](http://www.macombcountymi.gov/)

[Midland County Dept. of Public Health](#)

220 W. Ellsworth  
Midland, MI 48640-5194  
[www.co.midland.mi.us/health/](http://www.co.midland.mi.us/health/)

[Monroe County Health Dept.](#)

2353 S. Custer Rd.  
Monroe, MI 48161  
[www.co.monroe.mi.us/publichealth](http://www.co.monroe.mi.us/publichealth)

[Northwest Michigan Community Health Agency](#)

220 W. Garfield St.  
Charlevoix, MI 49720  
[www.nwhealth.org](http://www.nwhealth.org)

[Ingham County Health Dept.](#)

5303 S. Cedar  
P.O. Box 30161  
Lansing, MI 48909-7661  
[www.ingham.org](http://www.ingham.org)

[Jackson County Health Dept.](#)

1715 Lansing Ave., Suite 221  
Jackson, MI 49202  
[www.co.jackson.mi.us/hd](http://www.co.jackson.mi.us/hd)

[Kent County Health Dept.](#)

700 Fuller Ave., N.E.  
Grand Rapids, MI 49503  
[www.accesskent.com](http://www.accesskent.com)

[Lenawee County Health Dept.](#)

1040 S. Winter, Suite 2328  
Adrian, MI 49221-3871  
[www.lenawee.mi.us/health\\_department/](http://www.lenawee.mi.us/health_department/)

[Luce-Mackinac-Alger-Schoolcraft District Health Dept.](#)

14150 Hamilton Lake Rd.  
Newberry, MI 49868  
[www.lmasdhd.org](http://www.lmasdhd.org)

[Marquette County Health Dept.](#)

184 U.S. 41 Highway  
Negaunee, MI 49866  
[www.mqthealth.org](http://www.mqthealth.org)

[Mid-Michigan District Health Dept.](#)

615 N. State Rd., Suite 2  
Stanton, MI 48888  
[www.mmdhd.org](http://www.mmdhd.org)

[Muskegon County Health Dept.](#)

209 E. Apple Ave., C173  
Muskegon, MI 49442  
[www.muskegonhealth.net](http://www.muskegonhealth.net)

[Oakland County Health Div.](#)

1200 N. Telegraph Rd., Dept. 432  
Pontiac, MI 48341-0432  
[www.oakgov.com](http://www.oakgov.com)

[Ottawa County Health Dept.](#)  
12251 James St., Suite 200  
Holland, MI 49424  
[www.miottawa.org](http://www.miottawa.org)

[Saginaw County Dept. of Public Health](#)  
1600 N. Michigan Ave.  
Saginaw, MI 48602-5395  
[www.saginawpublichealth.org](http://www.saginawpublichealth.org)

[Shiawassee County Health Dept.](#)  
310 N. Shiawassee St.  
Corunna, MI 48817  
<http://health.shiawassee.net>

[Tuscola County Health Dept.](#)  
1309 Cleaver Rd.  
Caro, MI 48723  
[www.tchd.us](http://www.tchd.us)

[Washtenaw County Public Health Dept.](#)  
555 Towner Ave.  
P.O. Box 915  
Ypsilanti, MI 48197-0915  
[www.ewashtenaw.org](http://www.ewashtenaw.org)

[Western Upper Peninsula District Health Dept.](#)  
540 Depot  
Hancock, MI 49930  
[www.westernuphealth.org](http://www.westernuphealth.org)

[Public Health Delta and Menominee Counties](#)  
2920 College Ave.  
Escanaba, MI 49829-9597  
[www.phdm.org](http://www.phdm.org)

[Sanilac County Health Dept.](#)  
171 Dawson St.  
Sandusky, MI 48471  
[www.sanilachealth.com](http://www.sanilachealth.com)

[St. Clair County Health Dept.](#)  
3415 28th St.  
Port Huron, MI 48060  
[www.stclaircounty.org](http://www.stclaircounty.org)

[Van Buren-Cass County District Public Health Dept.](#)  
57418 CR 681, Suite A  
Hartford, MI 49057  
[www.vbcassdhd.org](http://www.vbcassdhd.org)

[Wayne County Health Dept.](#)  
33030 Van Born Rd.  
Wayne, MI 48184  
[www.waynecounty.com](http://www.waynecounty.com)