



PERMIT# _____

METER PIT SIZE _____ SERVICE LINE SIZE _____ METER SIZE _____

WATER and/or SEWER Installation and/or Alteration PERMIT

NOTE: ALL WORK MUST BE DONE BY A LICENSED MASTER PLUMBER

SERVICE ADDRESS: _____

WORK TYPE: RESIDENTAL OR COMMERCIAL OR FIRE PROTECTION LINE (Circle all that apply)

PERMIT TYPE: NEW TAP, DISCONNECTION FROM THE MAIN OR TYING INTO EXISTING LINE (Circle all that apply)

DESCRIPTON/PURPOSE OF WORK: _____

SIZE & TYPE OF LINE: _____

COMPANY/ PLUMBER NAME: _____

COMPANY ADDRESS: _____ MASTER LIC#: _____

CONTACT PHONE#: _____ CURRENT CITY LIC#: _____

THE APPLICATION FOR THE PERMIT REQUESTED SHALL ONLY BE GRANTED UPON THE FOLLOWING CONDITIONS:

1. Applicant agrees that all work shall be done in accordance with the **Utility Department** Rules & Regulation, City Engineering Standards, and all laws of the **State of Montana**. See Page2 for proper materials used. _____ **Initials**
2. Applicant must have **CURRENT** State of MT plumbing and City business license on file with the Utility Department.
3. It is the **CONTRACTORS' RESPONSIBILITY** to use OSHA approved shoring techniques. City of Whitefish personnel require proper shoring prior to entering trench for inspection.
4. Master or Journeyman must be on site. _____ **Initials**
5. Public Works must perform an inspection. _____ **Initials**
6. Plumber will map location of curb stop (if altered or new) and give to Inspector upon inspection. (Map Paper supplied) Failure to comply will result in no inspection. _____ **Initials**
7. Tim's # 253-8602 (Inspector) – Randy's # 253-4849 (Tapping Information) - Water Dept 863-2456 or 2457.

SIGNED: _____ DATE: _____

INSPECTION DATE and TIME: _____

CURB MAP _____ IMPACT FEES PAID _____ EXCAVATION PERMIT ISSUED _____

WATER ON or OFF: _____ SEWER ON or OFF: _____

COMMENTS: _____

THE WORK PERFORMED MEETS THE MINIMUM REQUIREMENTS FOR INSPECTION APPROVAL

SIGNED: _____ DATE: _____

(inspector signature)

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NOTICE TO ALL PLUMBERS

1" or Larger Meter Pits are required on all new construction and on replacement of service lines.

**** SEE ATTACHED PAPERWORK FOR MATERIAL SPECIFICATIONS ****

AND

Water Taps must be scheduled 48 hours in advance. Saddle and Corps (including sleeves and valves) to be provided and installed by the **Plumber**.

**** No Taps allowed after 4:00 p.m. ****

Contact Randy at 253-4849 to schedule taps.

This is a reminder that it is unlawful to connect sump pumps, area drains, foundation drains or any other source of ground water or surface water to the Whitefish Municipal Sanitary Sewer System. Violators will be subject to fines and will be responsible for all construction activity and cost associated with disconnecting the unlawful connection.

WATER AND SEWER SERVICE INSPECTION NOTES

WATER

1. PERMITS

- Permit to Install or Alter Service Line
- Excavation Permit/ City / County/ State Right-of-way (Saw Cut Asphalt Min. 1' Beyond Trench Wall)
- Plumber (Master or Journeyman ON-SITE)

2. MATERIALS & WORKMANSHIP

- Proper Shoring / Back slope (Prior to Entry for Inspection)
- Minimum 6' of Cover to Existing Grade (Maintain Minimum 10' Separation from Parallel Sewer Pipe)
- K-Type Soft Copper or PE / Main to Curb Stop Only *******(TONING WIRE MUST BE USED)*******
- K-Type Soft Copper or PE / Curb Stop to House Only *******(TONING WIRE MUST BE USED)*******
- SNAKEPIT BOX LOCATED AT METER PIT – SEE ATTACHED INFORMATION IN PACKET *****
- PE Pipe SDR 7 - 1" PE Tube SDR 9 (1-1/2" & 2")
- Curb Stop Outlet / Mueller Insta-tite (PE Pipe) or Mueller 110 Compression Mueller 110 Compression (PE Tube 1-1/2" & 2" Must Use Stainless Steel Insert)
- Curb Box / Two Hole Mueller / Pentagon Nut for Concrete Installations Only
- All Mueller Brass Fittings / NO GALVANIZED / NO 1-1/4" WATER SERVICES
- NO STOP & WASTE
- NO LEAKS
- Non-Metallic Pipe / Toning Wire
- Sand Bedding for Pipe / 3" minus Backfill for Right-of-way / Compaction Equipment ON-SITE

SEWER

1. PERMITS

- Permit to Install or Alter Service Line
- Excavation Permit / City / County / State Right-of-Way (Saw Cut Asphalt Min. 1' Beyond Trench Wall)
- Plumber (MASTER OR JOURNEYMAN ON SITE)

2. MATERIALS & WORKMANSHIP

- Proper Shoring / Back slope if Over 5' or Unstable Soils (Prior to Entry for Inspection)
- Schedule 40 PVC (Maintain Minimum 10' Separation from Parallel Water Pipe)
- Minimum 2% Grade on 4" Service (1/4 per Foot)
- Clean Out / Inside or Outside of Foundation
- Clean Out / Every 100' / Combination of 135° / Any 90° Bend
- Romac Universal Sewer Saddle / All Main Materials
- PVC Gasket Saddle W/SS Clamp / PVC Only
- Septic System Abandoned Per Uniform Plumbing Code / (If Applicable)
- Sand Bedding for Pipe / 3" minus Backfill for Right-of-way / Compaction Equipment ON-SITE

3. PRESSURE SEWERS

- Engineered Pressure Systems / Engineer ON-SITE (Maintain Minimum 10' Separation from Parallel Water Pipe) (Rest Haven / Pack Rat / W. Lakeshore / E. Lakeshore Require Engineering)
- Environment One (E-1) Systems / Pressure Test Service Line (1-1/4" PE @ 80PSI)
- PVC / Brass/ Stainless Steel Fittings Only (No Barbed Type Insert Fittings)
- Minimum 6' of Cover to Existing Grade / Pressure Service Only
- Detector Tape or Toning Wire / Pressure Service Only
- Sand Bedding for Pipe ON-SITE

CITY OF WHITEFISH PUBLIC WORKS DEPARTMENT MATERIAL SPECIFICATIONS FOR WATER AND SEWER – Also See Engineering Standards

| | | | |
|-------------------------------|--|---------------------------------|---|
| GATE VALVES MJ x MJ | Mueller Resilient Wedge Gate Valve – 12” & under Mueller Butterfly – larger than 12” | CURB STOPS | Mueller B-25172 1” – 2” Copper x FIP Mueller B-25209 1” – 2” Copper x Copper Mueller H-25172 – 1” IPS P.E x IPS P.E |
| TAPPING VALVE | Mueller Resilient Wedge Tapping Valve | CURB BOXES | Mueller H=10314 or H-10334 w/Stationary Rod |
| TAPPING SLEEVE | Mueller-Model H-304SS Romac- Model SST III | CURB BOX LIDS | 1. Piece lid (Mueller # 89982) in grass 2. Piece lid (Mueller # 89376) for concrete or asphalt |
| VALVE BOXES | Tyler 6860 Series “DD” – Screw Type EJIW 8560 Series – 3 pc. Screw Type #6 Bases for Water - #4 Bases for Sewer Lids to marked “WATER” or “SEWER” | METER WELLS | 1” Mueller/ McCullough / Thermal-Coil Meter box (Touch-read locking lid & attached alum. bottom) Larger than 1” – or Equal -- Specific approval required from the Public Works Department-See Attached |
| ADJUSTABLE V.B. RISERS | Tyler 6860 – Screw Type, 67 – 69 | BACKFLOW DEVICES | Must meet the “Cross Connection Control Committee Pacific NW Section – AWWA – Cross Connection Manual” and/or the “Manual of Cross-Connection Control University of Southern California – FCCHR” |
| WATER MAIN PIPE | 6” thru 12” – Class 150 PVC AWWA C-900 12” and larger – PVC AWWA C-905 | SEWER MAIN PIPE–GRAVITY | 8” Minimum – PVC SDR 35 |
| MAIN COUPLINGS | Solid Sleeve–MJ SSB–Ductile Iron (Long) Class 350 | SEWER MAIN PIPE–PRESSURE | HDPE 200 psi – with butt fusion joints |
| MAIN FITTINGS | MJ SSB – Ductile Iron Class 350 | SEWER MAIN SADDLE | Romac Saddle: CB-4.50 (For any main type) PVC Saddle: O-ring/gasket seal w/stainless steel clamps (PVC main only) |
| JOINT RESITRAINT | MPWSS for Thrust Blocking (Mega lug 2000 – on approval ONLY) | SEWER SERVICE PIPE | Gravity = SCH. 40 PVC Only, Pressure = HDPE 200 psi |
| FIRE HYDRANT | Mueller Super Centurion 250, 5-¼”, 3-way, MJ Shoe “Red” color | MANHOLE F/C | Olympic Foundry MH37A East Jordan Iron Works 3772 |
| CORPORATION STOPS | 1”, 1-1/2” or 2” (CTS) Mueller B-25008N 1” (IPS P.E) Mueller B-25005N | CURB INLET F/G | Olympic Foundry SM49B East Jordan Iron Works 7222 |
| WATER MAIN SADDLES | Romac Model 306 2” – 12” Romac Model 305 10” – 32” | CATCH BASIN F/G | Olympic Foundry MH11 East Jordan Iron Works 1848 |
| WATER SERVICE PIPE | Main to Curb Box – Type K Copper or PE Curb to Building – Type K or PE 1. Type K Seamless Copper- 1” to 2” 2. PE Pipe (IPS) SDR 7 - 1” 3. PE Tube (CTS) SDR 9 - 1½” & 2” *Toning wire required – see water service detail *Beveling tool must be used on IPS. Inserts on CTS | STROM SEWER PIPE | 12” Minimum – Material type & size as Approved by the City Engineer |

APPROVED YARD HYDRANT

Woodford Barn/Yard Hydrants S4 Series



The Model S4H is an automatic draining, sanitary; frost proof Yard Hydrant, with ASSE 1052 double check backflow preventer. This hydrant is designed for use in public areas such as campgrounds and parks or any location where potable water is required.

Unlike conventional hydrants which drain the water into the ground, the Model S4H employs a reservoir below frost line to contain the water. The hydrant is completely sealed to prevent surface and ground water from entering reservoir or service line. The valve, with its unique venturi design, removes the stored water along with the water being used.

The Model S4H is equipped with a diverter spout, which allows the hydrant to be operated independently from the backflow preventer. When the hydrant is to be used with a hose, the diverter sleeve is pulled down during flow and water is automatically diverted to the backflow preventer hose connection. The diverter will work with or without a hose attached to the backflow preventer and will automatically release any time the hydrant is shut off.

An important feature of the S4H is easy maintenance. The entire working portion of the hydrant can be removed from the reservoir without any excavation. Backflow Protected ASSE 1052 and 1057 listed. Field Testable Two Check Valves.

ADA COMPLIANT - Meets ADA requirements for height and 5 lbs. Max operating force.

FINISH - Painted Forest Service brown.

- FEMALE INLET - 1" N.P.T.
- MIN PRESSURE - 20 psi
- MAX PRESSURE - 100 psi

NOTICE

FOR WINTER USE: The hydrant must be operated at full flow, through the diverter, for a minimum of 30 seconds before and after each use to drain the hydrant and prevent freezing.

FLOW RATES (GPM)

| PSI | DIVERTER | BFP |
|-----|----------|-----|
| 20 | 7 | 1.5 |
| 30 | 9 | 3 |
| 40 | 10 | 5 |
| 50 | 11 | 6 |
| 60 | 12 | 7 |
| 70 | 13 | 8 |
| 80 | 14 | 9 |
| 90 | 14.5 | 9.5 |
| 100 | 15 | 10 |

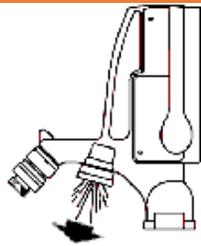


YARD HYDRANT CONTINUED ON REVERSE SIDE

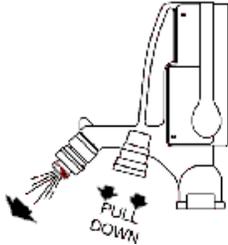
APPROVED YARD HYDRANT

Woodford Barn/Yard Hydrants

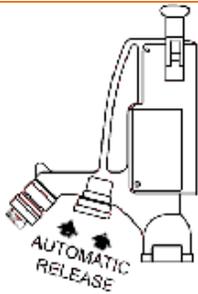
S4 Series



When the hydrant is opened to an ON position, water will flow through the diverter spout.

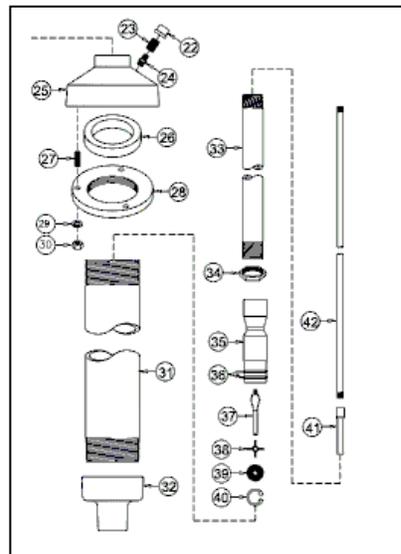
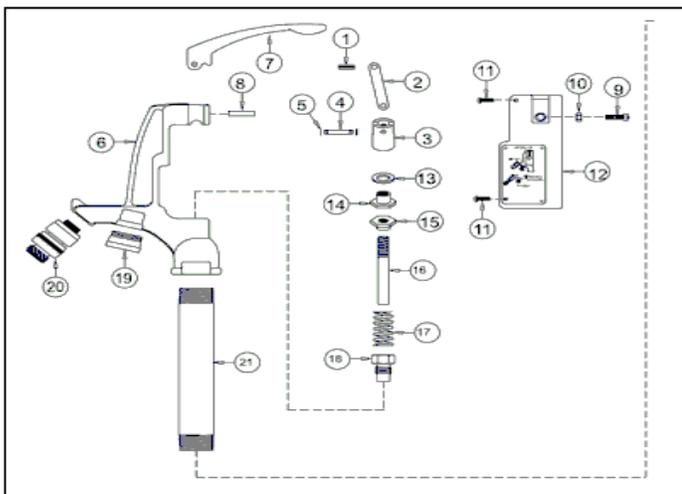


When the hydrant is opened to an ON position, water will flow through the diverter spout.



When the hydrant is closed to an OFF position, the diverter automatically releases, allowing the hydrant to drain into the lower reservoir. The hydrant will drain even if a pressurized or non-pressurized hose is attached.

| Bury Depth | 1' | 2' | 3' | 4' * | 5' * | 6' * | 7' * |
|--------------------|---------|---------|---------|---------|------|---------|----------|
| Reservoir Depth | 10 1/2" | 11 7/8" | 13 1/4" | 14 5/8" | 16" | 17 3/8" | 18 3/4" |
| Overall Bury Depth | 22 1/2" | 35 7/8" | 49 1/4" | 62 5/8" | 76" | 89 3/8" | 102 3/4" |
| Weight (lbs.) | 36 | 40 | 45 | 49 | 54 | 58 | 62 |



Approved Backflow Prevention Device for Irrigation System Where Meter is Located in a Meter Well



Watts 800 M4QT or 800 M4FR (Freeze Resistant) or Equivalent Approved for outdoor installations

Series 800M4QT is designed to prevent back-siphonage of contaminated water into a potable water supply.

Watts 009 Reduced Pressure Zone Assembly Applications.

(Requiring reduced pressure zone)

*****APPROVED FOR INSTALLATION NOT SUBJECT TO FLOODING**



Watts 007 Double Check Valve Assembly (007MQT) Applications

(Not requiring reduced pressure assembly)

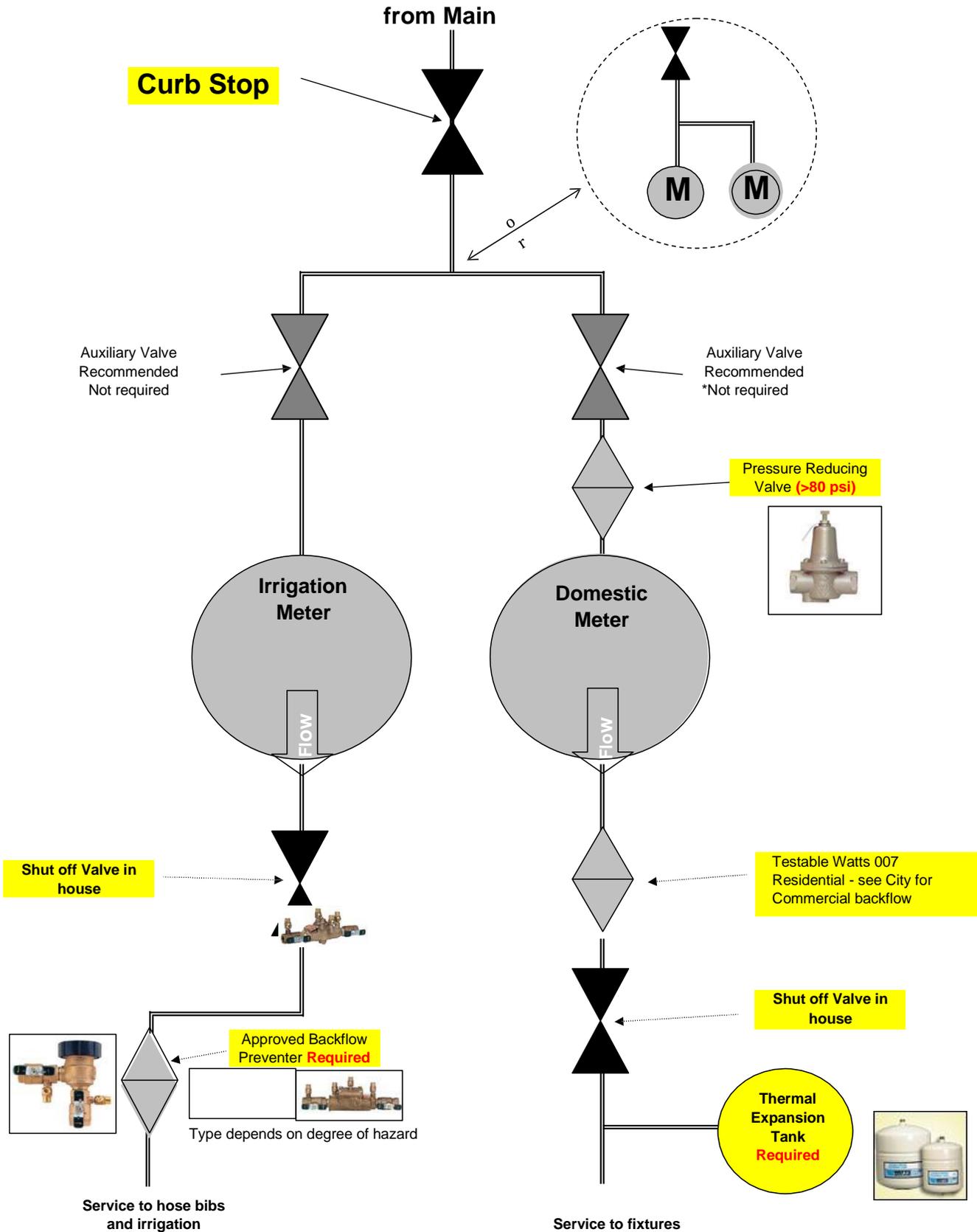
*****APPROVED FOR INSTALLATIONS WHERE FLOODING MAY OCCUR**



**COMMERCIAL BACKFLOW TYPE DEPENDS ON THE DEGREE OF
HAZARD SEE PUBLIC WORKS DEPARTMENT**

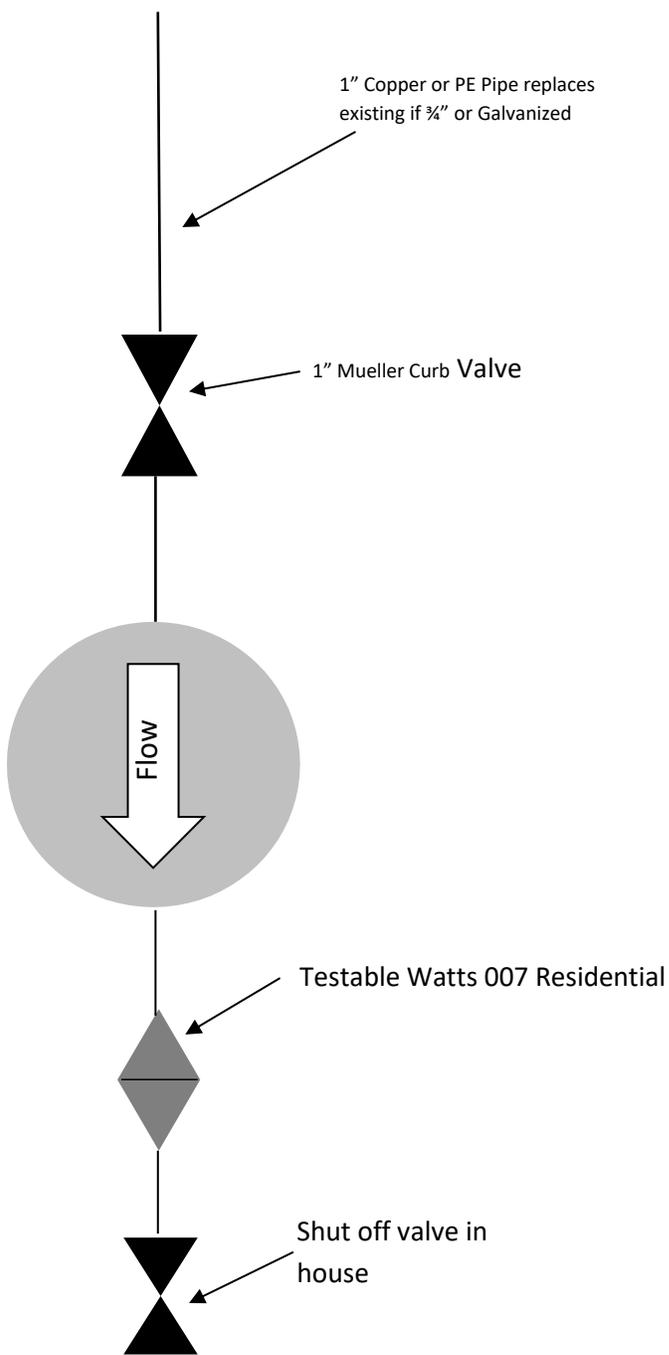
*** NO SUBTRACTION METERS ALLOWED ***

TYPICAL IRRIGATION / DOMESTIC METER INSTALLATION (New Construction or Service Replacement) Minimum 1" Service



Example of Typical Residential Service without Irrigation Service
New Construction or Service Replacement requires a Meter pit
Minimum 1" Service from Main

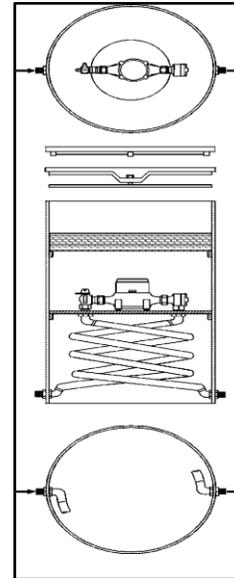
Service from main



METER PIT ORDERING INSTRUCTIONS

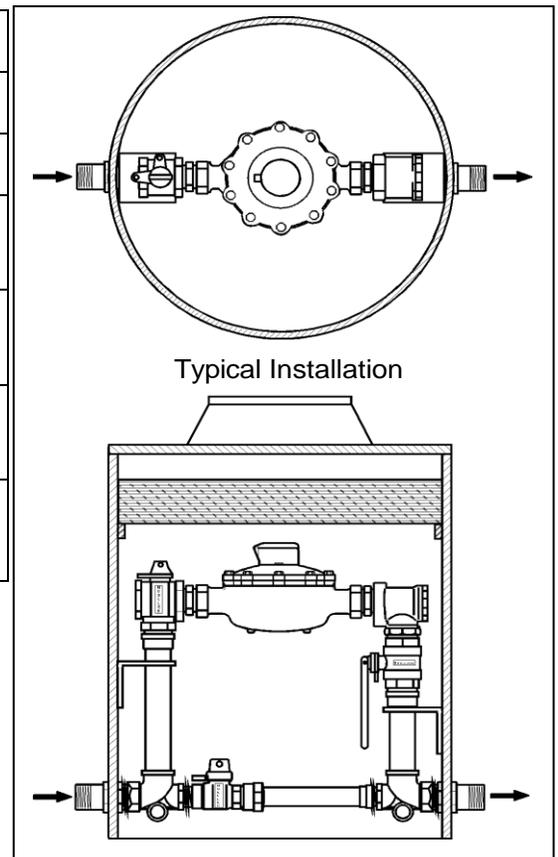
1" Mueller Thermal-Coil Meter Box or Equal

| | |
|--------------------------|--|
| Box Style – Single Meter | Code - CS |
| Box Diameter | Code # - 18 |
| Box Depth | 72" |
| Meter Inlet Type | Lock-wing angle ball valve (full port) – Code # F |
| Meter Outlet Type | A.S.S.E. Dual Check Valve – Code # S |
| Box Bottom Type | Attached Aluminum Bottom – Code # A |
| Meter Lids | Touch Read Lids Only – **** Marked Water COMPOSITE OR CAST IRON |



1-1/2" or 2" Mueller EZ-Vault Meter Setters Code 500

| | |
|--------------------------|--|
| Box Style – Single Meter | Code - VS |
| Box Diameter | Code # - 36 |
| Box Depth | 72" |
| Meter Inlet Type | Lock-wing angle ball valve (full port) – Code # F |
| Meter Outlet Type | A.S.S.E. Dual Check Valve – Code # V |
| Box Bottom Type | Attached Aluminum Bottom – Code # A |
| Meter Lids | MANHOLE RINGS and LIDS – **** Marked Water |



Mueller U-Branch Connection

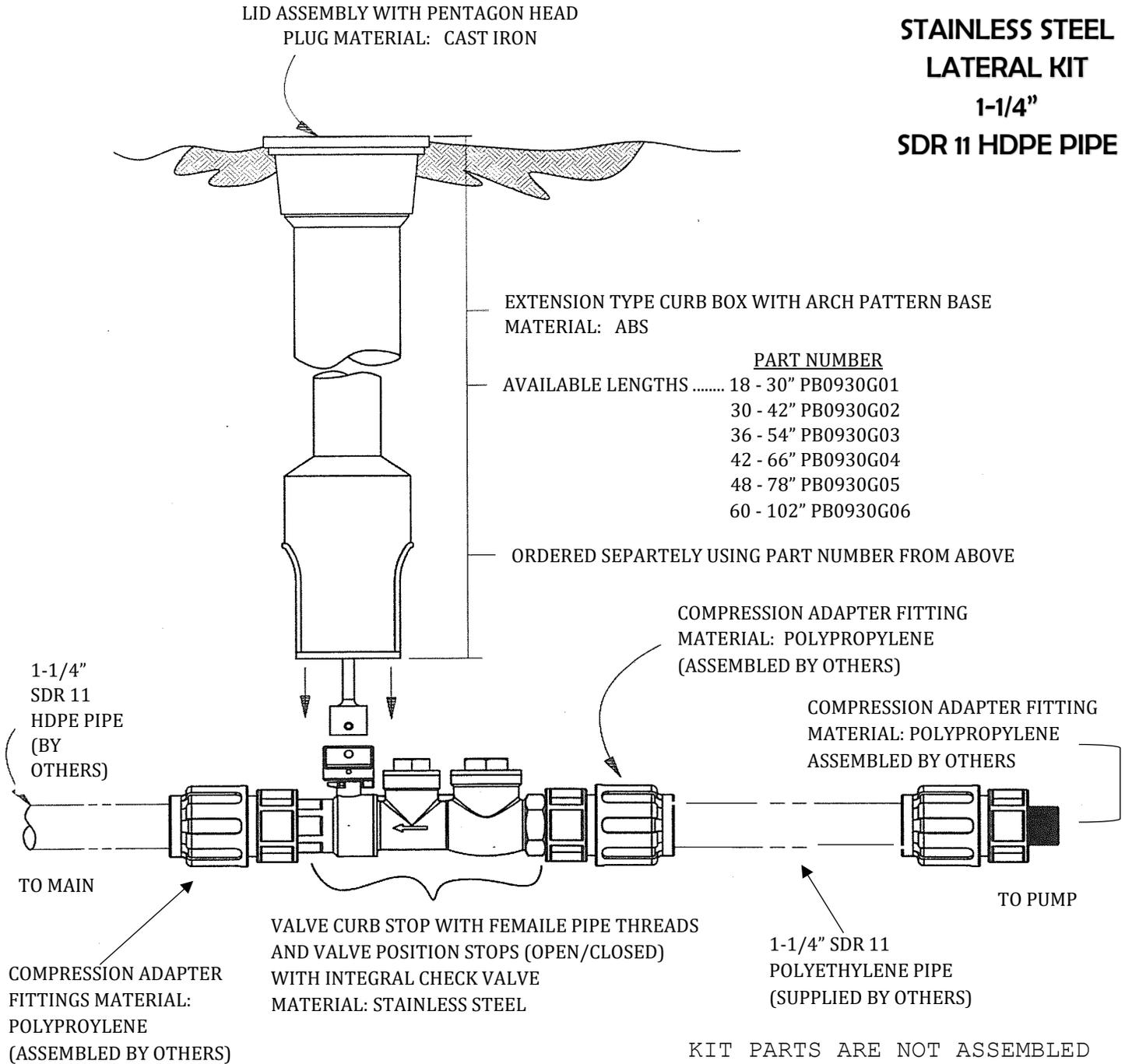


Part # H-15364 ----- 1"x1"x13-1/2"

Inlet: M.I.P. thread

Outlets: M.I.P. threads straight line

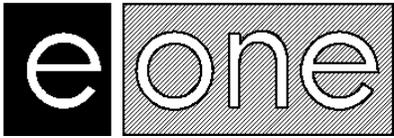
**STAINLESS STEEL
LATERAL KIT
1-1/4"
SDR 11 HDPE PIPE**



KIT PARTS ARE NOT ASSEMBLED

NOTES:

1. SS CURB STOP/CHECK VALVE AND FITTING ARE PROV SEPARATELY. TO BE ASSEMBLED BY OTHERS
2. TO ASSEMBLE, APPLY A DOUBLE LAYER OF TEFLON T/ AND A LAYER OF PIPE DOPE (SUPPLIED BY OTHERS) TO 1 THREADS ON THE PLASTIC FITTINGS AND INSTALL PER 1 MANUFACTURER'S INSTRUCTIONS.
3. ASSEMBLE IS TO BE PRESSURE TESTED (BY OTHERS)
4. ASSEMBLY IS TO BE USED WITH SDR11 HDPE PIPE
5. TO ORDER SS LATERAL KIT, USE PART NUMBER NC0193G01
6. CURB BOX IS TO BE ORDERED SEPARTELY, SEE ABOVE

| | | | | |
|---|-------|----------|-------|-------|
| SGS | DN | 11/02/11 | B | 3/16 |
| DR BY | CHK'D | DATE | ISSUE | SCALE |
|  | | | | |
| SEWER SYSTEMS | | | | |
| STAINLESS STEEL LATERAL KIT 1-1/4" SDR 11 HDPE PIPE | | | | |
| NA0330P02 | | | | |

Septic System Abandonment

Upon connection to the City of Whitefish Municipal Sewer System any existing on-site sewage system must be abandoned in accordance with State, County and City of Whitefish regulations.

The following guidelines and certifications are intended to ensure compliance with the regulations:

1. All tanks and/or vaults must be pumped by a licensed septic tank pumping contractor.

Name of Contractor: _____

Contractor License #: _____

Certification by pumping contractor: _____

Date Pumped: _____ Date Certified: _____

2. All tanks or vaults must be removed or destroyed on-site by completely collapsing the lid and breaking the bottom. The collapsed tank shall be filled with inert soil and compacted.

Name of Contractor: _____

Certification by Contractor: _____

Date filled and compacted: _____ Date Certified: _____

3. Written certification by property owner that the system has been abandoned in accordance with the conditions referenced above:

Property address or legal description: _____

Property owner(s): _____

Certification by owner: _____

Date: _____

City / County Certifying Official:

Name / Title: _____

Certification: _____ Date: _____

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Mapping Update Form

Address _____

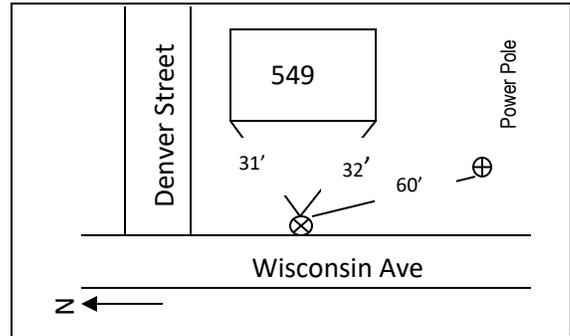
Subdivision _____

Changes To: (check one)

Sewer Map _____

Water Map _____

Storm Sewer Map _____



EXAMPLE

Draw location of valves, manholes, curb stops, fire hydrant, etc. with ties to existing features - if applicable: Check all utility mains and verify the sizes and type of pipe.

A large empty rectangular box for drawing utility features. In the top left corner, there is a north arrow pointing upwards, with the word "NORTH" written below it.