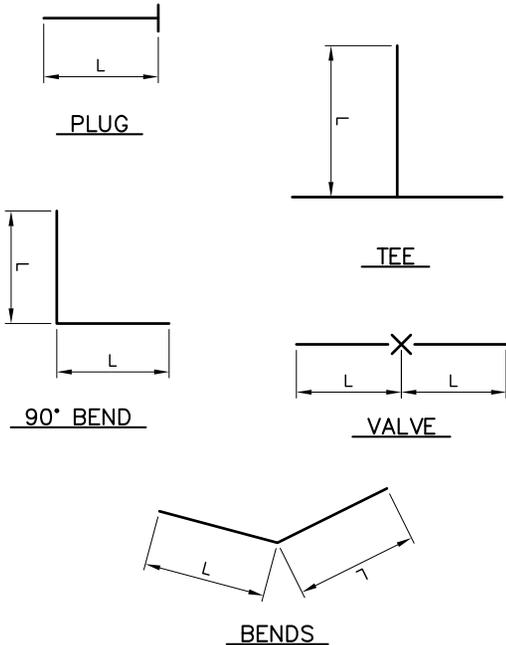


ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"			6"			8"			12"			16"			20"			24"		
	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
90° BEND, TEE, PLUG	3/4"	30'	MS	3/4"	45'	MS	3/4"	60'	MS	3/4"	86'	MS	1"	108'	HS	1 1/4"	132'	HS	-	155'	-
VALVE	-	-	-	-	-	-	-	-	-	-	-	-	1"	108'	HS	1 1/4"	132'	HS	-	155'	-
45° BEND	3/4"	9'	MS	3/4"	13'	MS	3/4"	18'	MS	3/4"	25'	MS	1"	32'	MS	3/4"	39'	HS	-	45'	-
22 1/2° BEND	3/4"	1'	MS	3/4"	4'	MS	3/4"	5'	MS	3/4"	7'	MS	3/4"	8'	MS	3/4"	10'	MS	-	12'	-
11 1/4° BEND	-	-	-	-	-	-	3/4"	1'	MS	3/4"	2'	MS	3/4"	2'	MS	3/4"	3'	MS	-	3'	-

NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. CLAMPS, RODS & MEGALUGS NOT ALLOWED FOR 24" & LARGER PIPES.
3. D=DIAMETER, L=LENGTH, G=GRADE, MS=MILD STEEL, HS=HIGH STRENGTH.
4. MINIMUM 4.5' GROUND COVER REQUIRED.
5. BASED ON 150 PSI INTERNAL PRESSURE, FOR L AND PRESS LISTED ON SHT 22 FOR D AND G.
6. MS = MILD STEEL ROD ASTM A 36.
7. HS = HIGH STRENGTH ROD ASTM A 193 GRADE B7.
8. NUTS SHALL BE ASTM A 307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL CONFORM TO MS-22.
9. SEE TIE ROD DETAIL DRAWING. ALSO, TIE ROD COUPLING DETAIL, CLAMP DETAIL AND SET CLAMP DETAIL.
10. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
11. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
12. CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.
13. 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE. MECHANICAL JOINT RESTRAINT DEVICE SHALL BE PER MS-2.
14. A SECOND VALVE WILL BE REQUIRED TO BE CLOSED WHEN EXCAVATING NEXT TO AN EXISTING VALVE.
15. ON PLUGS, TEES AND BENDS KICKBLOCK SHALL BE USED IN ADDITION TO RESTRAINT.
16. WHEN REDUCERS ARE USED ON VALVE INSTALLATION THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.



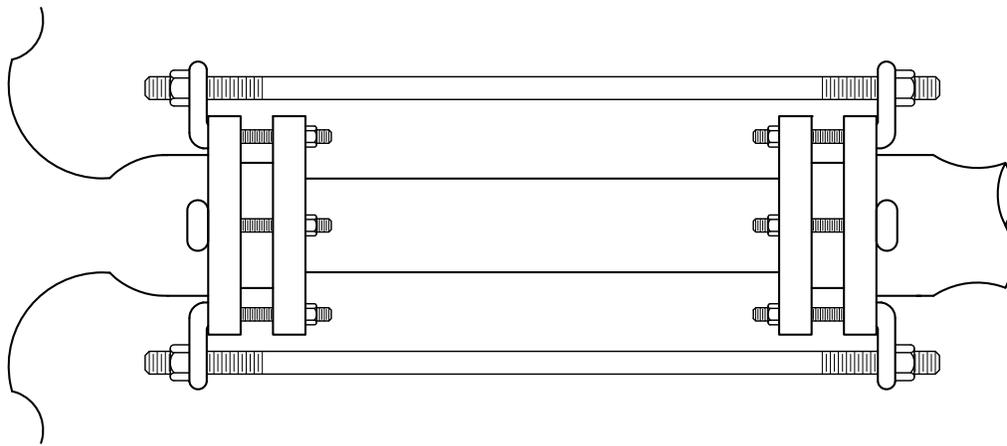
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 Phone (303) 628-6000 • Telecopier No. (303) 628-6851

LENGTH OF RESTRAINED PIPE

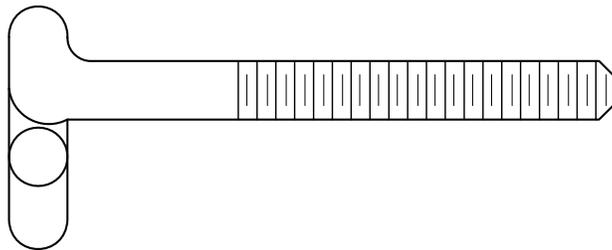
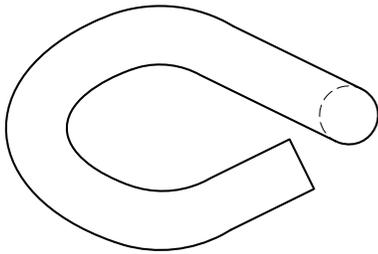
Scale: NONE Date: May 2009

Drawn: C.B.B. CK:

Approved: [Signature] Dr. 127 No. 35



PLAN



DETAIL

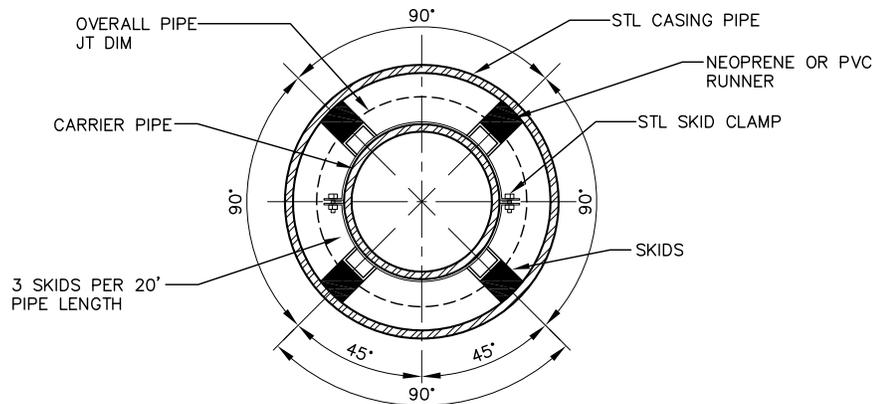
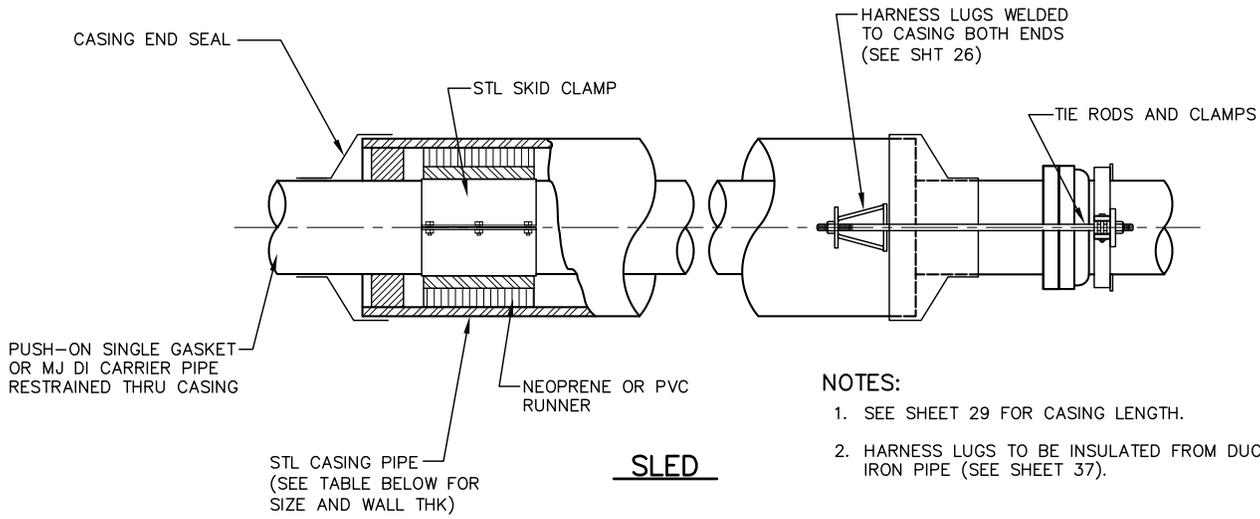
DIMENSIONS

ALLOWABLE PIPE ϕ INCHES	BOLT SIZE INCHES	NO OF BOLTS REQD
4	3/4	2
6	3/4	2
8	3/4	2
10	3/4	4
12	3/4	6

NOTES:

1. THE BOLT SHALL BE MANUFACTURED OF "COR-TEN" OR APPROVED EQUAL.
2. THE BOLT MAY BE HEAT TREATED.

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<h2>JOINT RESTRAINT DETAIL</h2>	
Scale: <u> NONE </u>	Date: <u> May 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> <i>[Signature]</i> </u>	Dr. <u> 127 </u> No. <u> 35 </u>

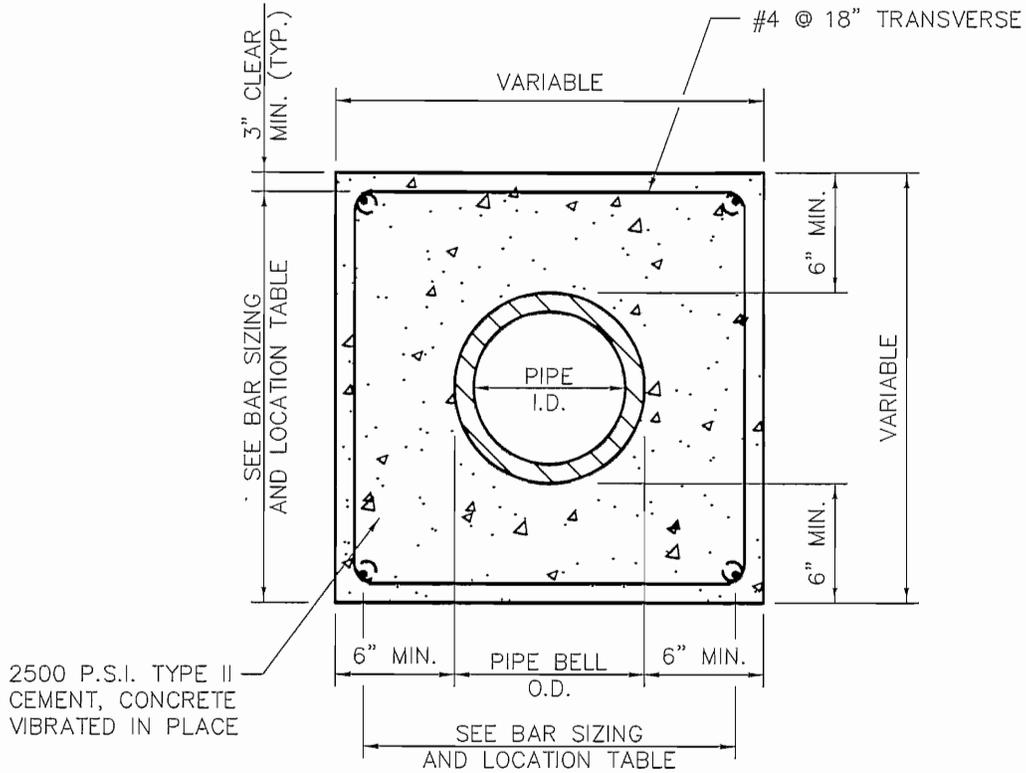


CARRIER PIPE NOMINAL ϕ	CASING PIPE	
	MIN OD	MIN WALL THICKNESS
4"	12"	0.188"
6"	16"	0.25"
8"	18"	0.282"
12"	22"	0.344"
16"	28"	0.406"
20"	32"	0.469"

NOTE:

TRENCH LAID CASINGS SHALL BE DESIGNED AND INSTALLED TO CONDUIT STANDARDS.

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BORE CASING DETAIL	
Scale: <u> NONE </u>	Date: <u> May 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> </u>	Dr. <u> 127 </u> No. <u> 35 </u>

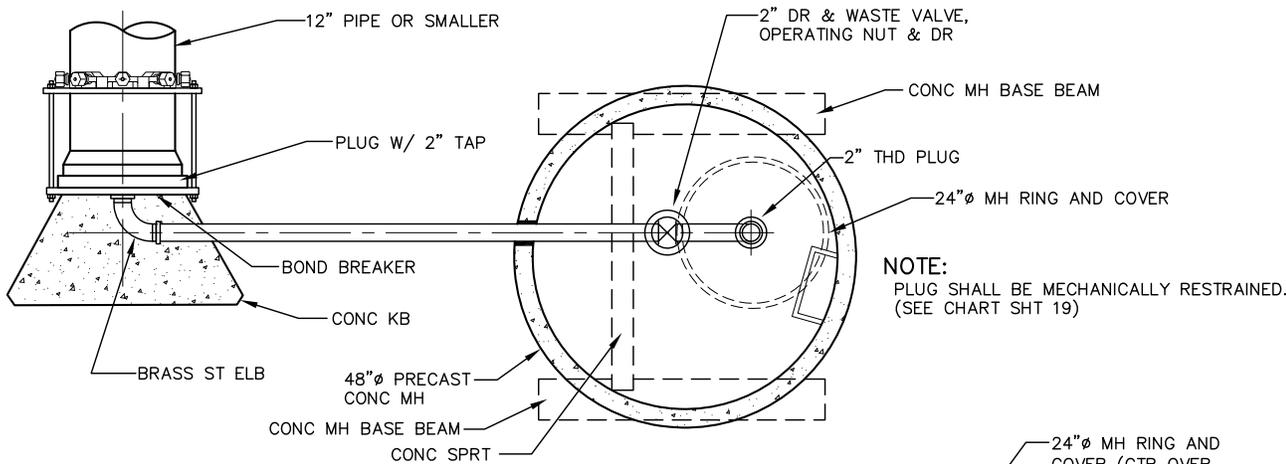


REINFORCEMENT STEEL

PIPE I.D.	LONGITUDINAL BARS — LOCATION		
6 IN.	4—NO. 4 BARS	1 EACH	CORNER
8 IN.	4—NO. 4 BARS	1 EACH	CORNER
10 IN.	8—NO. 4 BARS	3 EACH	SIDE
12 IN.	8—NO. 4 BARS	3 EACH	SIDE
15 IN.	8—NO. 4 BARS	3 EACH	SIDE
18 IN.	8—NO. 4 BARS	3 EACH	SIDE
21 IN.	12—NO. 4 BARS	4 EACH	SIDE
24 IN.	12—NO. 4 BARS	4 EACH	SIDE
27 IN.	12—NO. 4 BARS	4 EACH	SIDE
30 IN.	12—NO. 4 BARS	4 EACH	SIDE
33 IN.	12—NO. 4 BARS	4 EACH	SIDE
36 IN.	16—NO. 4 BARS	5 EACH	SIDE

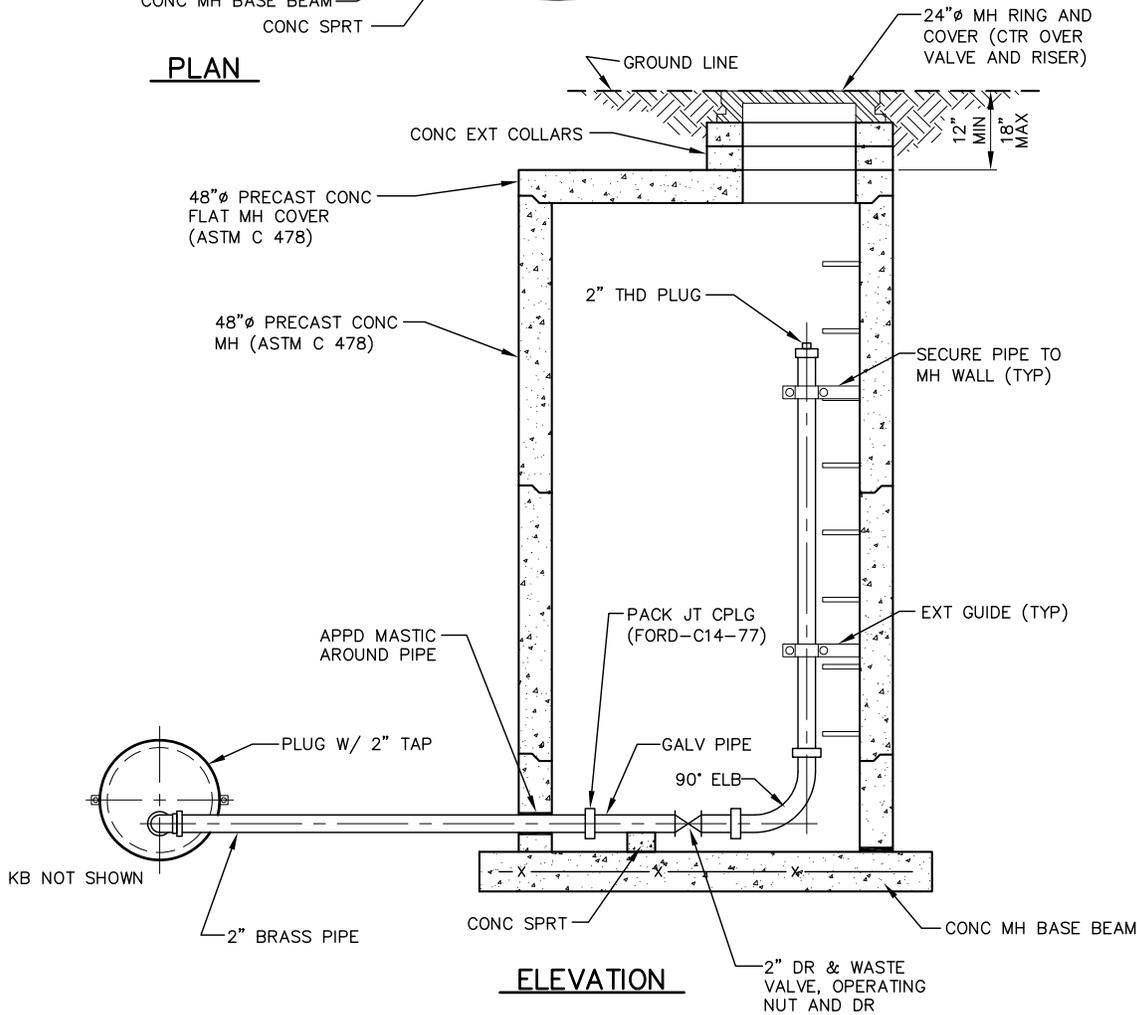
NOTE:

This detail is to be used when constructing conduit crossings. For stream crossings, the District shall review this detail for use on a case by case basis. Special encasements may be required at creek crossings.



NOTE:
PLUG SHALL BE MECHANICALLY RESTRAINED.
(SEE CHART SHT 19)

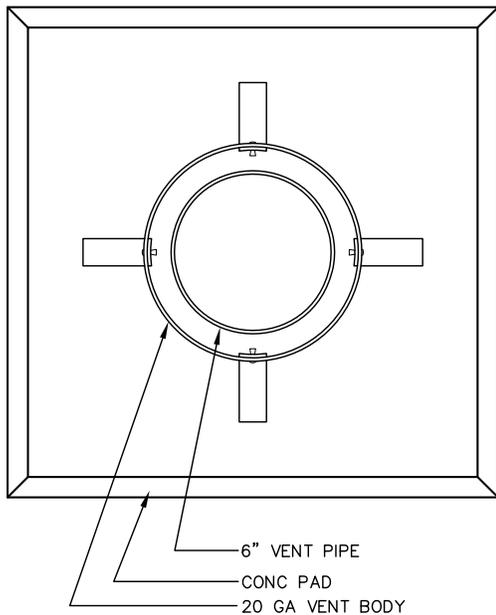
PLAN



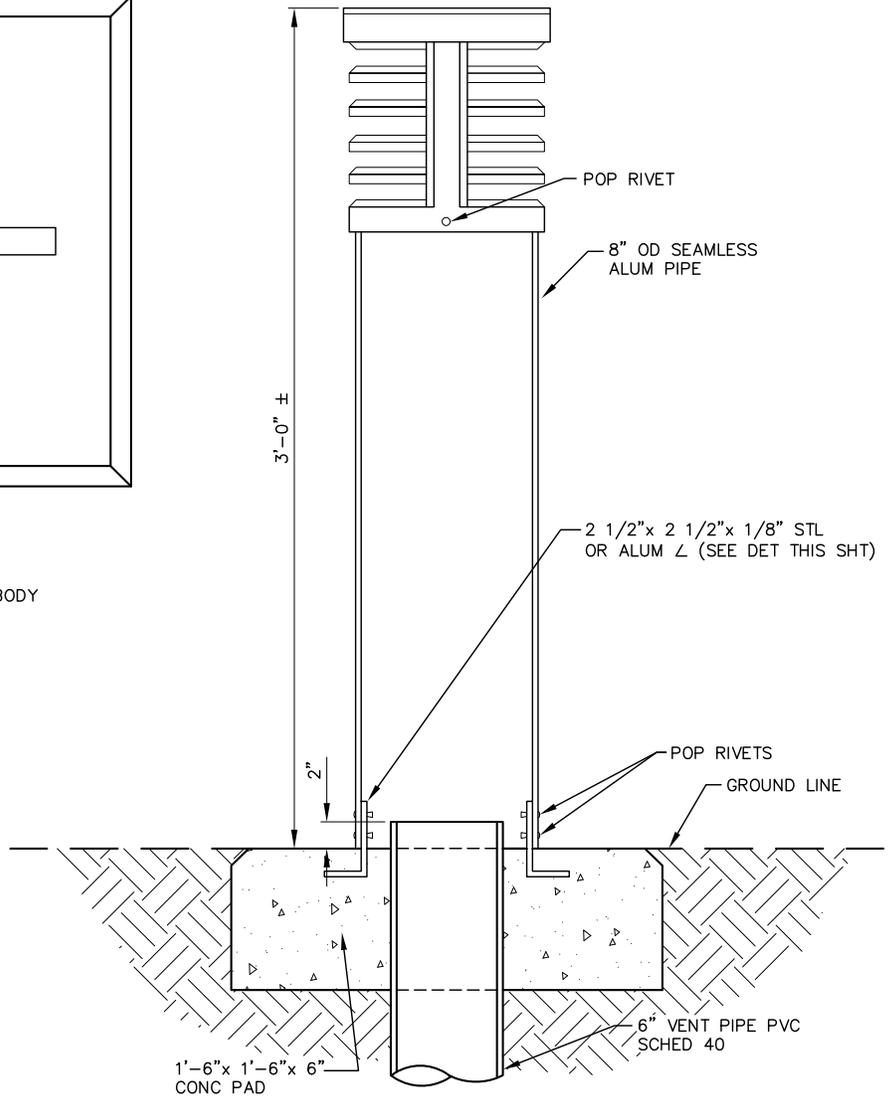
ELEVATION

NOTE:
WITH PRIOR APPROVAL OF DENVER WATER,
A FIRE HYDRANT MAY BE SUBSTITUTED
FOR THE PERMANENT 2\"/>

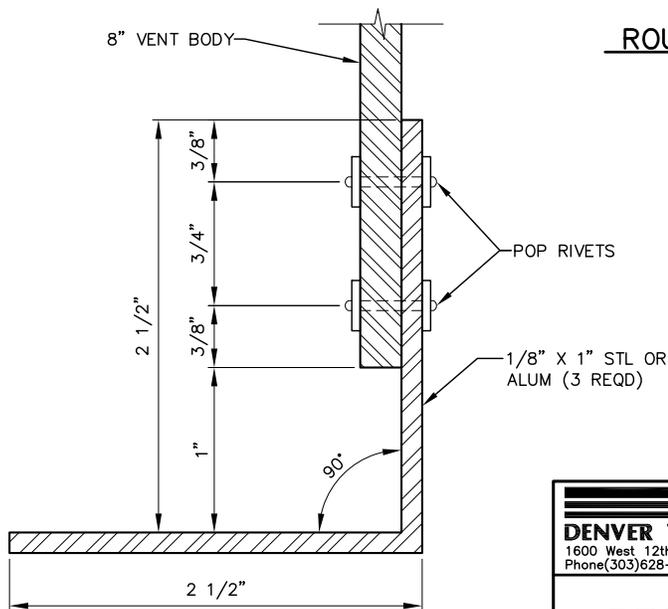
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PERMANENT 2" BLOWOFF IN 48" MANHOLE	
Scale: <u> NONE </u>	Date: <u> May 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> <i>[Signature]</i> </u>	Dr. <u> 127 </u> No. <u> 35 </u>



BASE



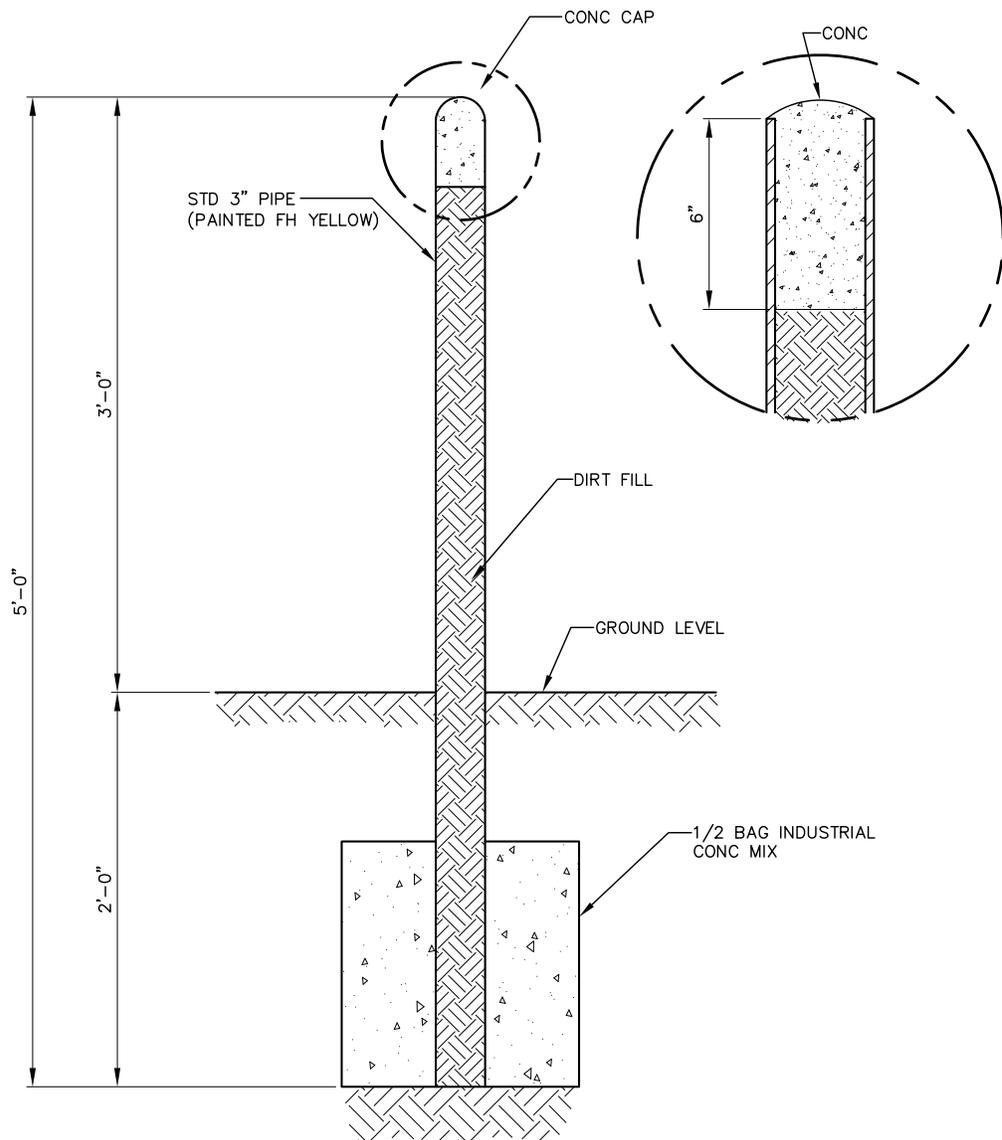
ROUND VENT SCREEN



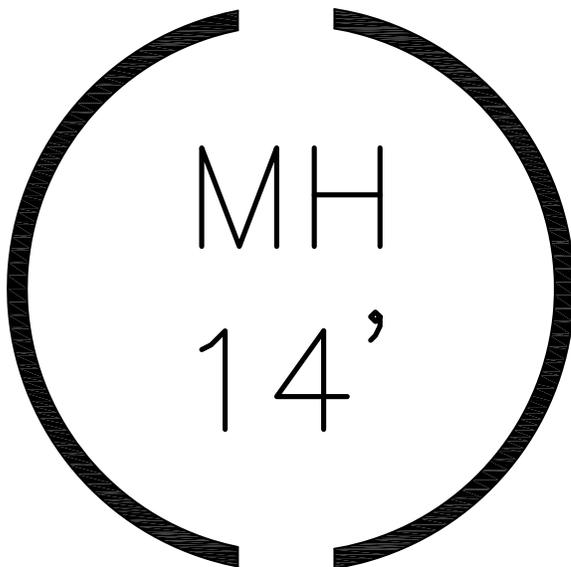
STEEL OR ALUMINUM ANGEL

NOTE:
COLOR SHALL BE OLIVE GREEN
OR FLAT BLACK TO MATCH
SURROUNDINGS.

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RESIDENTIAL VENT ASSEMBLY	
Scale: <u> NONE </u>	Date: <u> May 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> </u>	Dr. <u> 127 </u> No. <u> 35 </u>

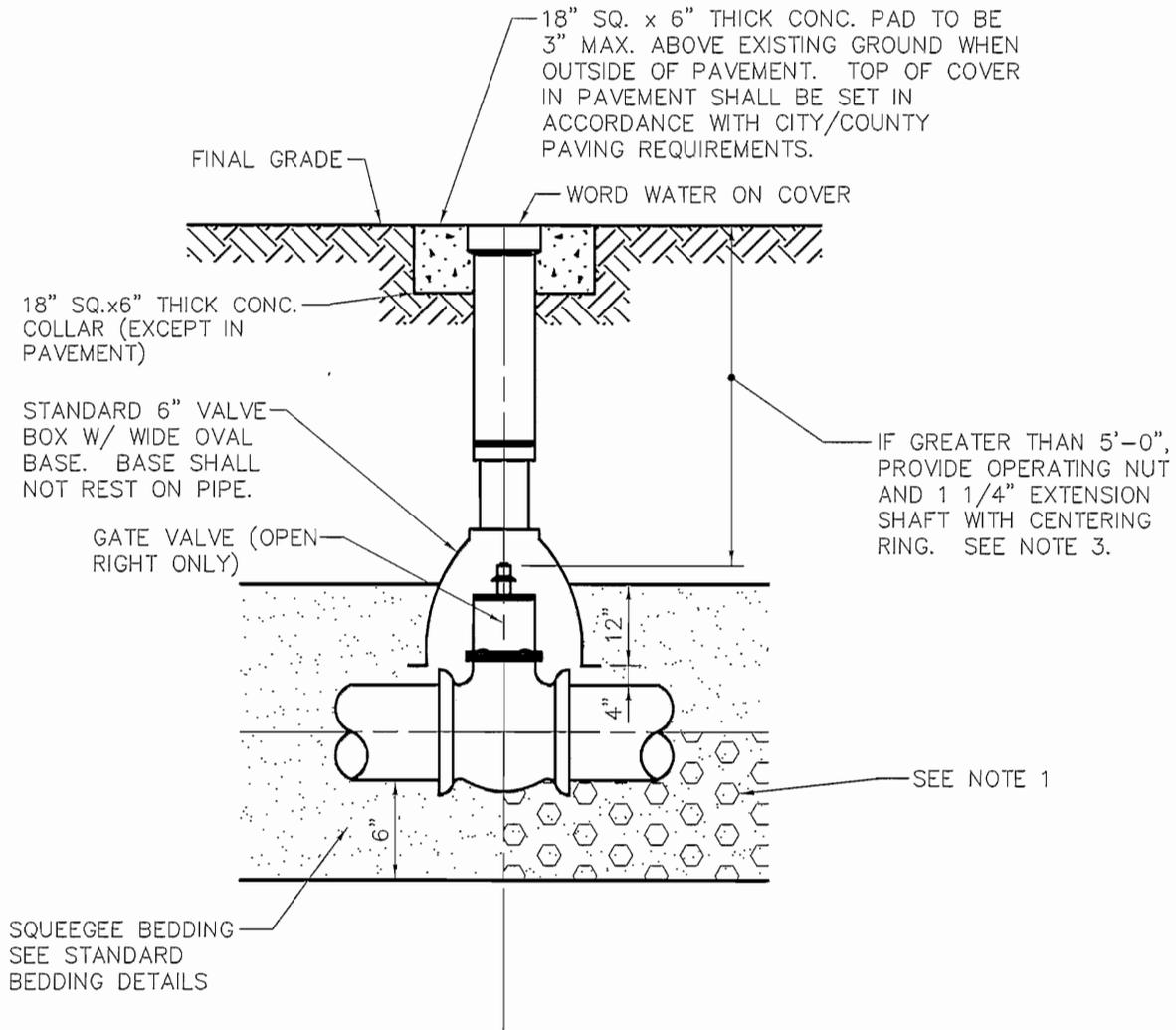


IDENTIFICATION MARKS ON POSTS SHALL BE 3"Ø CIRCLES BROKEN IN VERTICAL CENTER () POINTING TO APPURTENANCE, WITH 1" STENCILS INSIDE CIRCLE INDICATING TYPE OF APPURTENANCE (MH, 12" GATE VALVE, ETC) AND THE DISTANCE IN FEET AND INCHES FROM POST.



IDENTIFICATION EXAMPLE

DENVER WATER 1600 West 12th Avenue • Denver, Colorado 80204 Phone (303) 628-6000 • Telecopier No. (303) 628-6851	
REFERENCE POST TYPICAL DETAIL	
Scale: <u> NONE </u>	Date: <u> May 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> </u>	Dr. <u> 127 </u> No. <u> 35 </u>



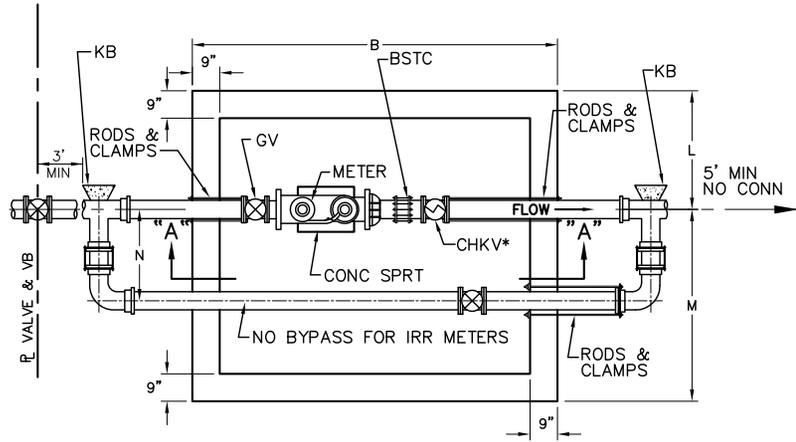
NOTES:

1. CARE SHALL BE TAKEN WHEN INSTALLING VALVES TO ASSURE PROPER SUPPORT OF THE VALVE. THE DISTRICT MAY REQUIRE THE 3/4" CRUSHED ROCK TO BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT.
2. VALVES SHALL NOT BE PLACED IN CONCRETE CROSS PANS.
3. OPERATING NUTS SHALL NOT BE SET CLOSER THAN THREE (3) FEET TO FINAL GRADE OR DEEPER THEN FIVE (5) FEET FROM FINAL GRADE. OPERATOR EXTENSIONS SHALL BE CONNECTED TO VALVE OPERATOR USING SET SCREW.
4. GATE VALVE SHALL BE POLYETHYLENE WRAPPED.

GENERAL METER NOTES

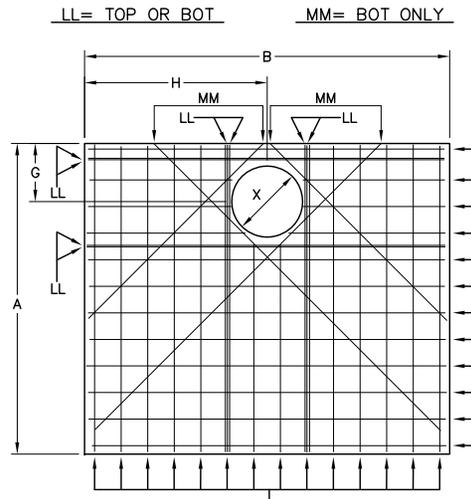
1. METER LOCATION SHALL BE APPROVED BY DENVER WATER METER INSPECTION. METER SETTINGS LARGER THAN ONE INCH SHALL BE APPROVED IN THE FIELD BY A METER INSPECTOR PRIOR TO INSTALLATION OF ANY SERVICE PIPE OR TAP. CALL 303.628.6706 TO MAKE APPOINTMENT FOR ON-SITE APPROVAL MEETING.
2. METER PITS AND CURB STOPS/PROPERTY-LINE VALVES SHALL BE LOCATED IN GRASSY LANDSCAPED AREAS. METER PITS MAY NOT BE PLACED IN DRIVEWAYS. SIDEWALK LOCATIONS MUST BE APPROVED IN ADVANCE OF TAPPING THE MAIN.
3. METER SETTINGS LARGER THAN ONE INCH MUST BE INSPECTED BY A METER INSPECTOR BEFORE BEING BACKFILLED. METERS WILL NOT BE SET/APPROVED UNLESS METER SETTING AND SERVICE LINE ARE IN FULL COMPLIANCE WITH THE MOST CURRENT VERSION OF THE ENGINEERING STANDARDS, STANDARD DRAWINGS, AND APPROVED PROJECT DRAWINGS AS APPLICABLE.
4. IF STREET OR GROUND IS NOT TO FINAL GRADE AT TIME OF METER INSTALLATION OR INSPECTION, OWNER MUST RAISE OR LOWER THE METER PIT/VAULT WHEN FINAL GRADE IS ESTABLISHED. METER SETTING MUST BE ADJUSTED TO STANDARDS AFTER PIT/VAULT GRADE IS ADJUSTED.
5. DOMESTIC WATER SERVICES SHALL RUN AT A NINETY DEGREE ANGLE TO THE FRONT PROPERTY LINE OR ROW/EASEMENT LINE, WITH NO BENDS, NO CHANGES IN PIPE SIZE OR PIPE MATERIAL, AND NO CONNECTIONS UNTIL FIVE FEET PAST THE METER PIT OR VAULT. NO JOINTS ARE PERMITTED WITHIN THE METER PIT OR VAULT, EXCEPT AS SHOWN ON STANDARD DRAWINGS.
6. BYPASS IS REQUIRED ON ALL METERS ONE AND ONE HALF INCH AND LARGER, EXCEPT FOR IRRIGATION SERVICES. BYPASSES ARE NOT PERMITTED ON IRRIGATION SERVICES.
7. MATERIALS USED FOR SERVICE PIPES, VALVES, METER SETTINGS AND METERS SHALL CONFORM TO APPLICABLE SECTIONS OF THE ENGINEERING STANDARDS. VARIANCES AND DEVIATIONS MUST BE APPROVED BY CUSTOMER SERVICE FIELD SECTION PRIOR TO INSTALLATION.
8. METERS SHALL BE FURNISHED WITH AMR DEVICES AS SPECIFIED BY METER INSPECTION, WHICH WILL BE INSTALLED BY DENVER WATER AT TIME OF METER INSTALLATION OR INSPECTION.
9. IF METER LOCATIONS DO NOT PERMIT DRIVE-BY RADIO READING FROM A PUBLIC STREET, IT MAY BE NECESSARY TO INSTALL A REMOTE AMR DEVICE, WITH SUITABLE SIGNAL CABLE ENCASED IN CONDUIT FROM THE METER TO THE AMR DEVICE, OR TO INSTALL ADDITIONAL RADIO EQUIPMENT SUCH AS A REPEATER. OWNER SHALL PROVIDE A SUITABLE LOCATION, APPROVED BY DENVER WATER CUSTOMER SERVICE FIELD SECTION, FOR MOUNTING REMOTE AMR DEVICE SUCH THAT AN ADEQUATE RADIO SIGNAL IS RECEIVED TO PERMIT DRIVE-BY METER READING FROM A DEDICATED PUBLIC STREET. ALL SUCH INSTALLATIONS SHALL BE AT THE OWNER'S EXPENSE. FOR REPEATER, OWNER SHALL PROVIDE MOUNTING LOCATION AND 110V ELECTRIC POWER SUPPLY.
10. ANY METER SETTING OTHER THAN THOSE SPECIFICALLY SHOWN AND DETAILED HEREIN SHALL BE CONSIDERED NON-STANDARD AND SHALL REQUIRE PRIOR APPROVAL BY CUSTOMER SERVICE FIELD SECTION, BASED ON DRAWINGS SHOWING ENTIRE SERVICE LINE, FITTINGS, METER SETTING, LOCATION OF NEAREST PUBLIC STREET, AND STRUCTURAL DESIGN OF VAULT. METERS AND VALVES IN PAVED AREAS REQUIRE SPECIAL MATERIALS AND CONSTRUCTION METHODS. METERS AND CURB STOPS/VALVES MAY NOT BE PLACED IN AREAS WHERE VEHICLES MAY PARK OVER THEM.
11. BACKFLOW PREVENTION DEVICES MAY BE REQUIRED IN CONFORMANCE WITH SECTION 6.11.
12. INSIDE METER SETTINGS PERMITTED ONLY FOR COMMERCIAL, INDUSTRIAL, INSTITUTIONAL AND LARGE MULTI-FAMILY RESIDENTIAL LOCATIONS, AND ONLY WITH PRIOR WRITTEN APPROVAL. AT THE DISCRETION OF THE CUSTOMER SERVICE FIELD MANAGER. APPROVED INSIDE METER SETTINGS MUST BE INSTALLED IN ACCORDANCE WITH ALL SPECIAL CONDITIONS CONTAINED IN THE APPROVAL AND WITH INSTRUCTIONS OF THE METER INSPECTOR. INSIDE METERS MUST BE EASILY ACCESSIBLE TO DENVER WATER DURING NORMAL WORKING HOURS.
13. AMR REQUIREMENTS SPECIFIED ABOVE AND IN THE DENVER WATER ENGINEERING STANDARDS ARE NOT APPLICABLE IN MASTER METER DISTRIBUTOR AREAS. MASTER METER DISTRIBUTORS MAY IMPOSE ADDITIONAL STANDARDS NOT REQUIRED BY DENVER WATER.

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<h3>GENERAL METER NOTES</h3>	
Scale: <u> NONE </u>	Date: <u> May </u> <u> 2009 </u>
Drawn: <u> C.B.B. </u>	Ck: <u> </u>
Approved: <u> </u>	Dr. <u> 127 </u> No. <u> 35 </u>



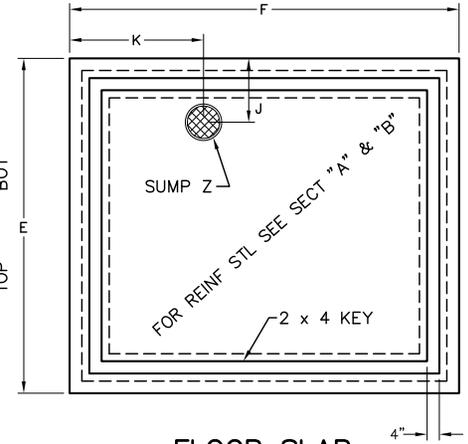
PLAN OF PIPING

NOTE:
1" MASTIC TYP @ ALL
RODS THRU WALLS.

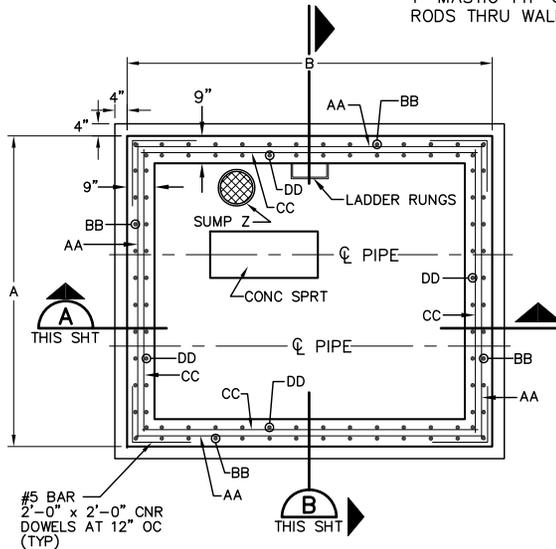


ROOF SLAB

NOTE:
THE ROOF SLAB MAY BE CAST IN
SECTIONS FOR FUTURE ACCESS.
THE INDIVIDUAL SECTION WEIGHT
MUST NOT EXCEED 7,500 POUNDS
ACCORDING TO MS-26.

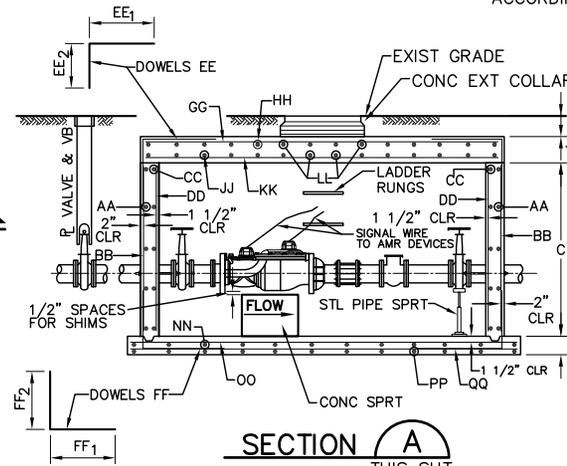


FLOOR SLAB



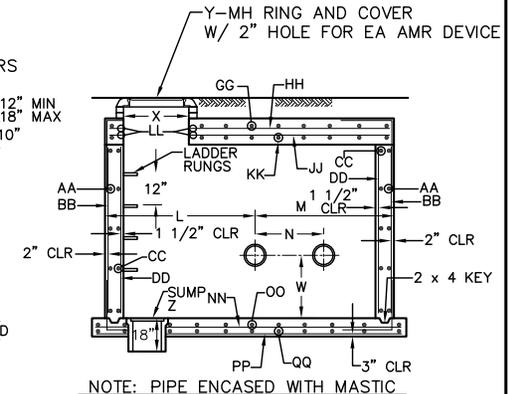
PLAN OF VAULT

NOTE:
EACH METER REQUIRES AN ELECTRONIC DIGITAL ENCODER
OR MECHANICALLY ENCODED REGISTER WITH AMR DEVICES
EXCEPT FOR MASTER METER DISTRIBUTORS DENVER WATER
WILL DETERMINE TYPE OF AMR DEVICES AND LOCATION
PRIOR TO VAULT INSTALLATION.



SECTION A
THIS SHT

SEE SHEET 57 FOR DIMENSIONS
CORRESPONDING TO THIS DRAWING.



SECTION B
THIS SHT

NOTE:
THE DISTANCE BETWEEN RUNGS, CLEATS AND STEPS
SHALL NOT EXCEED 12 INCHES AND SHALL UNIFORM
THROUGHOUT THE LENGTH OF THE LADDER.

METER IN VAULT WITH BYPASS

DENVER WATER
1600 West 12th Avenue, Denver, Colorado 80204
Phone: (303) 628-6000, Telecopier: No. (303) 628-6851



Scale: NONE Date: May 2009

Drawn: C.B.B. CK: ---

Approved: [Signature] Dr. 127 No. 35

Effective Date: August 2009

NOTE: PRECAST VAULT CAN BE USED FOR ALL 3" AND 4" COMPOUND METERS.

METER SIZE	WALLS								WALL DOWELS				ROOF SLAB								FLOOR SLAB												
	AA		BB		CC		DD		EE & FF		EE ₁	EE ₂	FF ₁	FF ₂	GG		HH		JJ		KK		LL		MM	NN		OO		PP		QQ	
	BAR	DIST	BAR	DIST	BAR	DIST	BAR	DIST	BAR	DIST					BAR	DIST	BAR	DIST	BAR	DIST	BAR	DIST	BAR	DIST		TOP	BOT	BOT	BAR	DIST	BAR	DIST	BAR
3"	No 4	1'-4"	No 4	1'-0"					No 5	1'-0"	2'-6"	2'-0"	3'-0"	2'-0"					No 7	1'-0"	No 7	1'-0"		No 7	No 7	No 5	1'-0"	No 5	1'-0"				
4"	No 4	1'-4"	No 4	1'-0"					No 5	1'-0"	2'-6"	2'-0"	3'-0"	2'-0"					No 7	1'-0"	No 7	1'-0"		No 7	No 7	No 5	1'-0"	No 5	1'-0"				
6"	No 4	1'-4"	No 4	1'-0"					No 5	1'-0"	2'-6"	2'-0"	3'-0"	2'-0"					No 7	1'-0"	No 7	1'-0"		No 7	No 7	No 5	1'-0"	No 5	1'-0"				
8"	No 4	1'-4"	No 4	1'-0"	No 4	1'-4"	No 5	1'-0"	No 5	1'-0"	3'-0"	2'-6"	3'-0"	2'-6"	No 5	1'-0"	No 5	1'-0"	No 7	1'-0"	No 8	9"	No 5	No 7	No 7	No 5	1'-0"						
10"	No 4	1'-4"	No 4	1'-0"	No 4	1'-4"	No 5	1'-0"	No 5	1'-0"	3'-0"	2'-6"	3'-0"	2'-6"	No 5	1'-0"	No 5	1'-0"	No 7	1'-0"	No 8	9"	No 5	No 7	No 7	No 5	1'-0"						

SEE SHEET 59 FOR DRAWINGS CORRESPONDING TO THESE DIMENSIONS

METER SIZE	PIPE SIZE Ø	VAULT DIMENSIONS														MH			SUMP
		A	B	C*	D	E	F	G	H	J	K	L	M	N	W	X	Y	Z	
3"	3"	8'-6"	10'-0"	6'-0"	8"	9'-2"	10'-8"	2'-3"	4'-8"	1'-9"	2'-8"	3'-3"	5'-3"	2'-6"	2'-0"	3'-0"	24"x 36"	1'-0"	
4"	4"	8'-6"	10'-0"	6'-0"	8"	9'-2"	10'-8"	2'-3"	5'-4"	1'-9"	3'-4"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x 36"	1'-0"	
6"	6"	8'-6"	11'-0"	6'-0"	8"	9'-2"	11'-8"	2'-3"	5'-8"	1'-9"	3'-8"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x 36"	1'-0"	
8"	8"	8'-6"	14'-0"	6'-0"	10"	9'-2"	14'-8"	2'-3"	5'-3"	2'-3"	3'-0"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x 36"	1'-6"	
10"	10"	8'-6"	14'-0"	6'-0"	10"	9'-2"	14'-8"	2'-3"	4'-11"	2'-3"	3'-0"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x 36"	1'-6"	
12"	12"	8'-6"	14'-0"	6'-0"	10"	9'-2"	14'-8"	2'-3"	4'-11"	2'-3"	3'-0"	3'-3"	5'-3"	2'-6"	2'-6"	3'-0"	24"x 36"	1'-6"	

*NOTE: DIMENSION C IS A MINIMUM SUGGESTED HEIGHT.

NOTE:

- 3" SEE SHEET 59 FOR WALL PLATES
- 4" SEE SHEET 59 FOR WALL PLATES
- 6" USE 5/16"x 7" MIDDLE RING ON BOLTED SLEEVE TYPE COUPLINGS
- 8" USE 3/8"x 7" MIDDLE RING ON BOLTED SLEEVE TYPE COUPLINGS
- 10" USE 3/8"x 7" MIDDLE RING ON BOLTED SLEEVE TYPE COUPLINGS

METER AND VAULT DIMENSIONS

DENVER WATER
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Scale: NONE Date: May 2009

Drawn: C.B.B. CK: _____

Approved: [Signature] Dr. 127 No. 35

The Product

Accu-Tab® SI Tablets

PPG manufactures calcium hypochlorite tablets designed for controlled erosion. Accu-Tab SI (scale inhibitor) tablets are specially formulated to inhibit scaling in hard water applications. The tablets are for potable and industrial water chlorination, NSF 60 listed.



Accu-Tab Chlorinators and PowerPro® Systems



PowerPro chlorination unit using Accu-Tab chlorinator model 3075.



The wide range of Accu-Tab chlorinators provide the solution to your chlorination needs.

We've Got the Power™



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The products mentioned herein can be hazardous if not properly used. All purchasers of these products should communicate all the health and safety information contained herein to their customers or employees, as the case may be. PPG Industries recommends that before anyone uses or handles the products mentioned herein, he or she read and understand the precautionary and other information on the product label, as well as in the Material Safety Data Sheet and Product Bulletin.

Although the products mentioned herein are intended for industrial and manufacturing uses, they are potentially hazardous materials and must be kept out of the reach of children.



PPG Industries

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A Leader in Chlorination Systems



The System

The Accu-Tab® System combines uniquely designed, patented chlorinators with slow release 68% calcium hypochlorite tablets to provide one complete system for consistent and controllable chlorine dosages.



SAFER. The Accu-Tab System is a good alternative to chlorine gas—there are no cylinders to handle and no leaks can occur. No need for SCBA gear and costly scrubber systems—just rubber gloves and safety glasses.

SIMPLER. Accu-Tab three-inch calcium hypochlorite tablets, shipped in convenient 55-pound pails, are easy to store and handle.

MORE ACCURATE. The Accu-Tab System is as accurate as gas, more consistent than bleach and easier to maintain than both.

LOW MAINTENANCE. The Accu-Tab System provides a low concentration solution which results in low maintenance and eliminates troublesome metering pumps.

A LOW CAPITAL COST ALTERNATIVE. Regulatory requirements and safety issues provide increasing incentive for water treatment plants to reconsider their water treatment systems. The Accu-Tab System is a low capital cost alternative to bleach and gas where significant capital funds are needed to comply with regulatory requirements.

The Technology

Gravity Return Technology

The gravity system represents the ultimate in reliability with negligible costs. Nothing moves but the water. Simply, the chlorinated solution from the Accu-Tab® chlorinator is gravity fed into the clear well, contact chamber or reservoir.



Both systems are easily adaptable for automatic control and are SCADA compatible.

Pressure Return Technology

A portion of the main flow is introduced into the PowerPro® System where Accu-Tab® tablets are eroded at a controlled rate. A centrifugal pump reinjects the resulting chlorinated solution back into the main water line. This sidestream loop is nearly identical to the familiar chlorine gas injection system—without the danger and the hassle.



The Comparison

	Accu-Tab System	Bleach	Gas
Safety	Easy to handle, no spills	Spill and leak concerns	Major gas leak concerns
Charging chemical	Easy to add tablets, only one person needed	Hard-to-maneuver heavy drums	Two trained persons needed, breathing protection required
Material compatibility	More neutral pH, less corrosive	High pH, corrosive	Low pH, very corrosive
Convenience	55-lb. pail of tablets is easy to handle	Bleach drums awkward to handle; unreliability of scheduled deliveries	Hard to maneuver cylinders, special handling training needed
Maintains chlorine strength	Small change over a year	Significant loss in a week	Consistently 100% chlorine
Chlorine delivery control	Consistent strength makes for easy, reliable control	Every changing strength makes for control difficulty	Troublesome regulators needed, harder to automate
Storage convenience	55-lb. pails stacked three high, same space as 150-lb. cylinder, no separate room	Drums or bulk tanks require space and possibly containment pad	Separate room with special access needed, fans, scrubbers
Auxiliary equipment	No moving parts in chlorinator itself	Troublesome metering pumps required	Eductors, regulators have small orifices prone to plugging