

MINIMUM DIMENSIONS RELATING TO BARREL DIAMETER

Db	H	TW	A	B	C	CONCRETE VOLUME
12"	30"	24"	3'-0"	9"	1'-0"	3.4 ft. ³
15"	33"	37"	4'-0"	1'-0"	1'-6"	8.0 ft. ³
18"	36"	49"	5'-6"	1'-0"	2'-6"	16.5 ft. ³

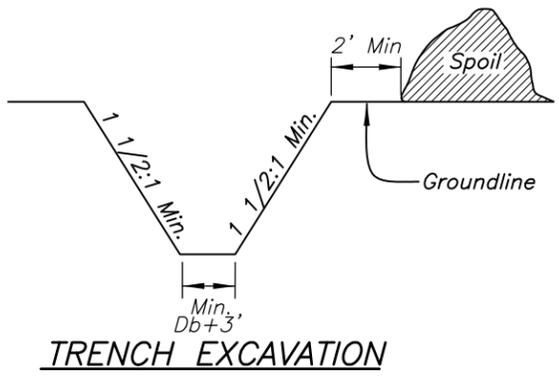
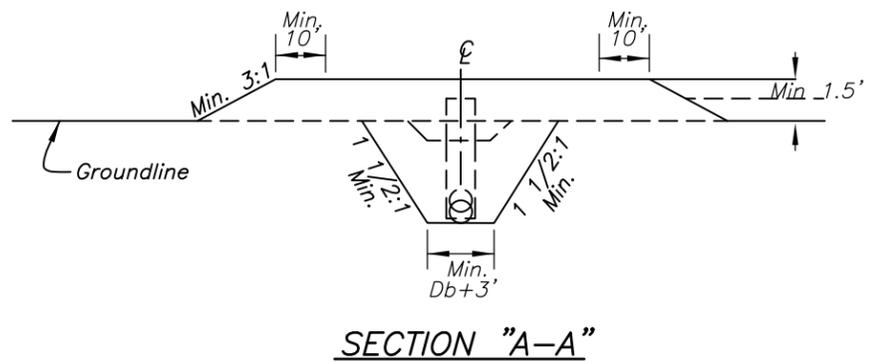
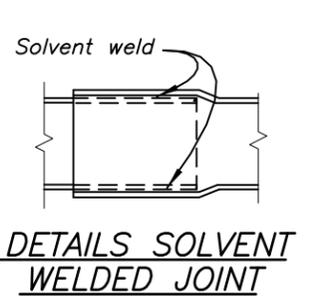
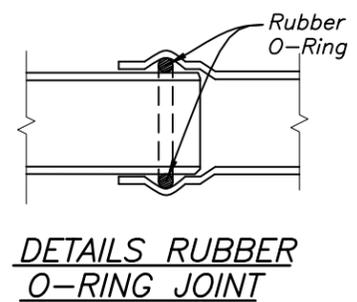
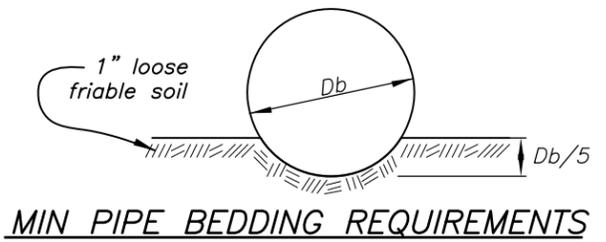
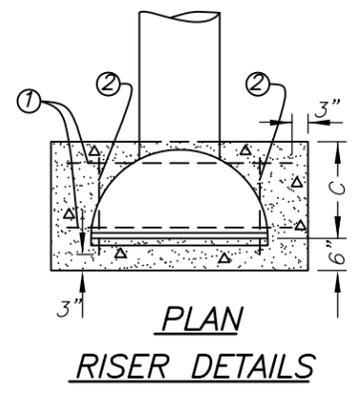
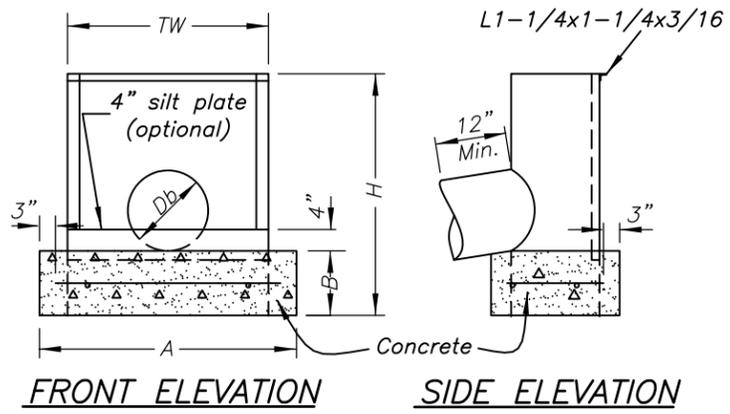
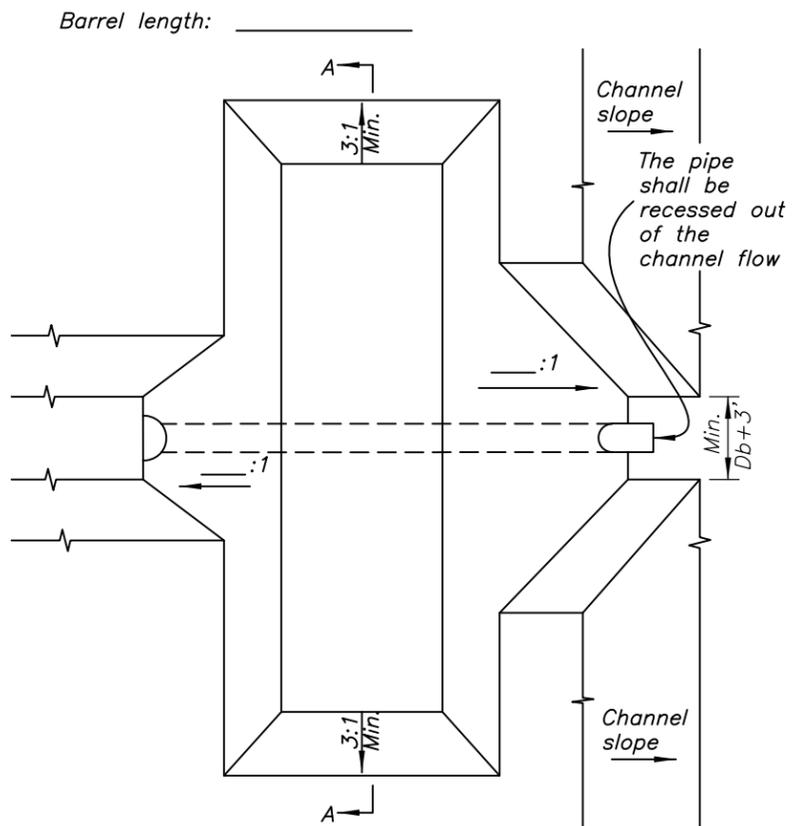
#4 REINFORCING BARS

Db	Mark	Length	Number
12"	①	2'-6"	2*
	②	1'-0"	4*
15"	①	3'-6"	3*
	②	1'-6"	6*
18"	①	5'-0"	4*
	②	2'-6"	8*

* Bars equally spaced.

NOTES:

- Riser shall be fabricated using 0.3" min thickness PVC. All solvent welding to be shop welded.
- The barrel nub may be extruded from the riser. The channels for the stop logs and angle braces shall be aluminum or galvanized steel and attached with flat head flush mounted. All metal hardware shall be galvanized or stainless steel.
- The barrel nub may be attached to the riser by the following alternative method. Grind surfaces to roughen within four inches of joint. Weld the joint with a hot air PVC welding gun. Apply a quick set filler paste to all joints. Prime all roughened surfaces then apply four layers of fiberglass matting and a styrene based resin. Use 6 layers of fiberglass on 18" barrels. All material is to be placed and finished in a workmanlike manner.
- The maximum pipe slope shall be 0.125 ft/ft.
- Pipe couplings to be solvent welded or rubber o-ring gasket type as recommended by manufacturer. Bell of couplings to be placed upstream.
- The pipe outlet shall be 2 feet or barrel diam. above the outlet channel, whichever is less.
- Lumber used for stop-logs shall be 2"x6" nominal SYP No. 2 pressure treated to 0.4 pounds retention or equivalent.
- For additional details see Missouri Construction Specification 410.
- The upstream slope shall be 2:1 (min) and the downstream slope shall be 1 1/2:1 (min).
- Anti-seep collars shall conform to Missouri Standard Drawing 29-L-225 or equivalent.



Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

PVC VARIABLE WEIR INLET
LOW HEAD WATER CONTROL STRUCTURE



DRAFT
NOT FOR
CONSTRUCTION

File Name _____

Drawing Name
29-N-411

Sheet _____ of _____