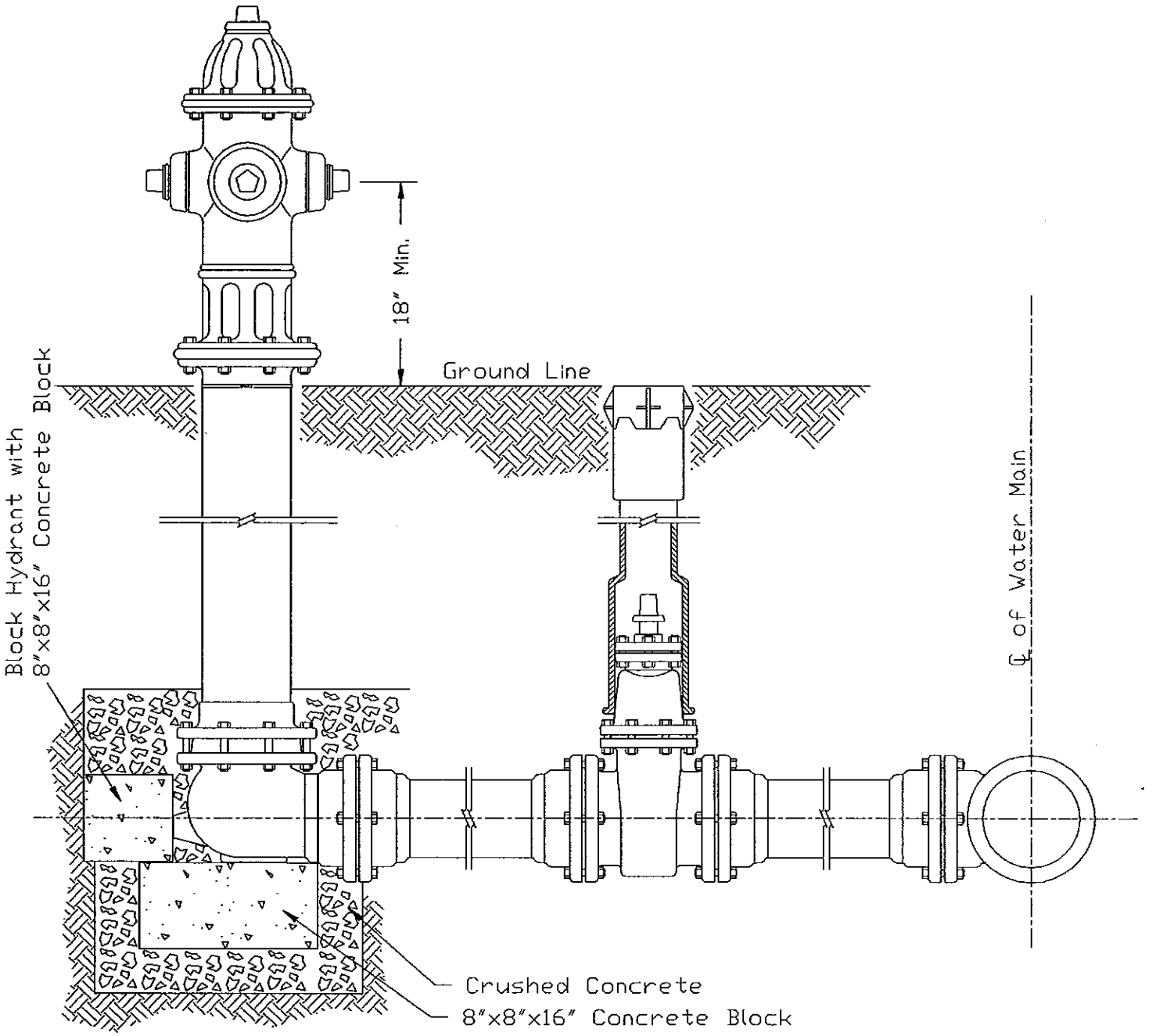
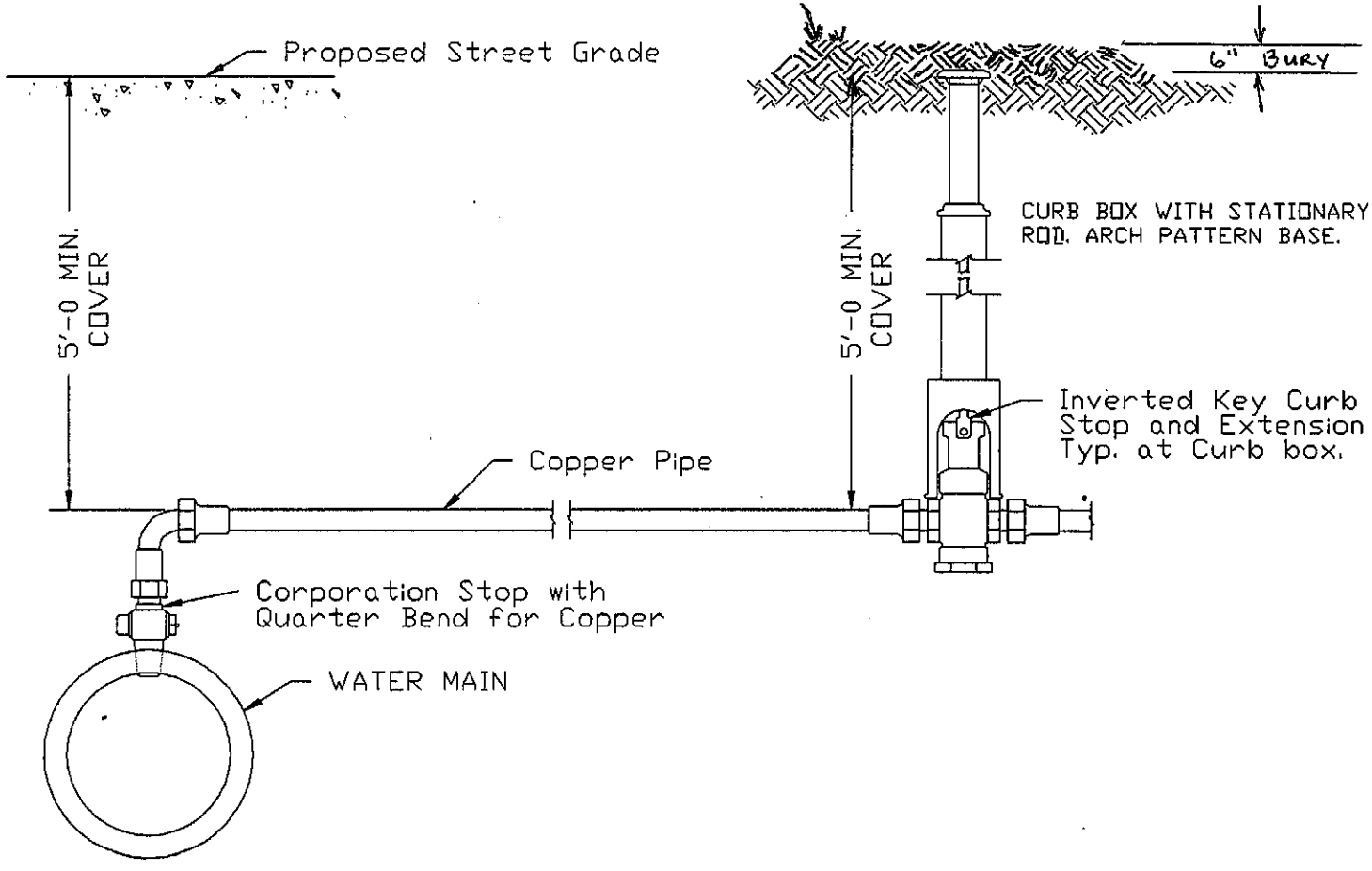
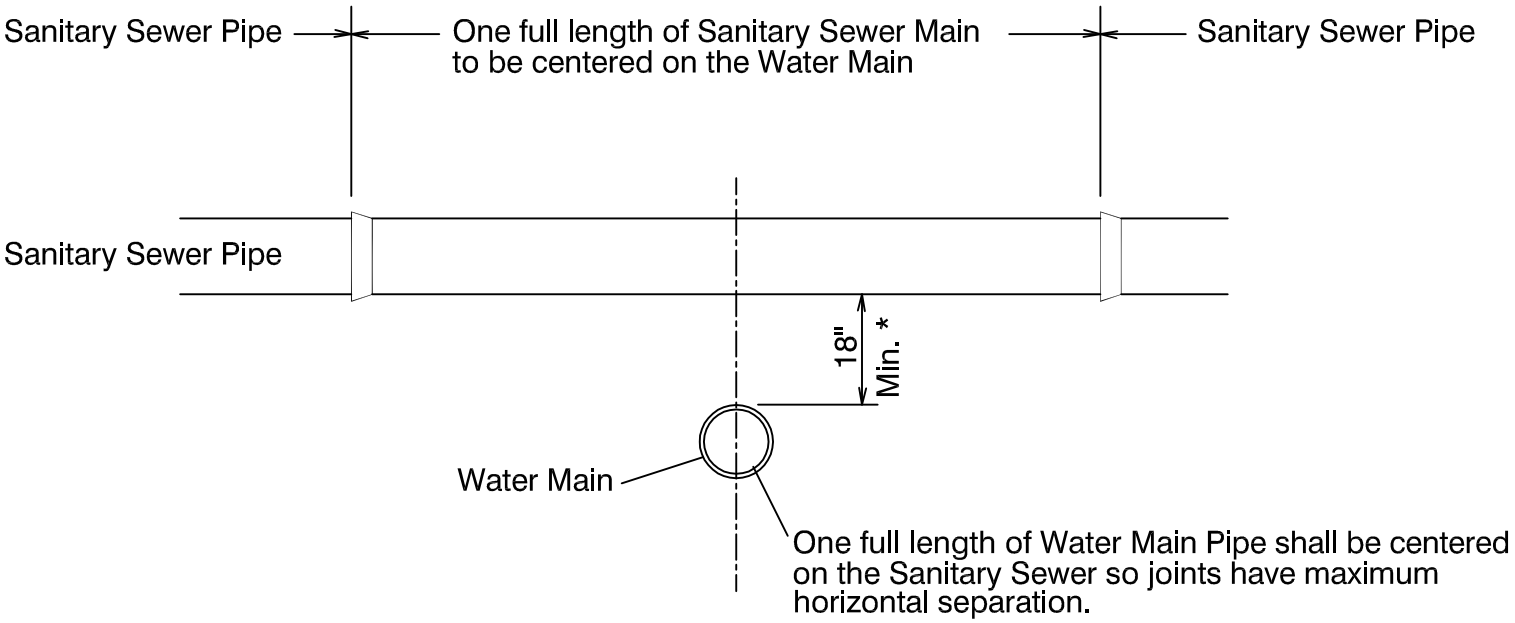


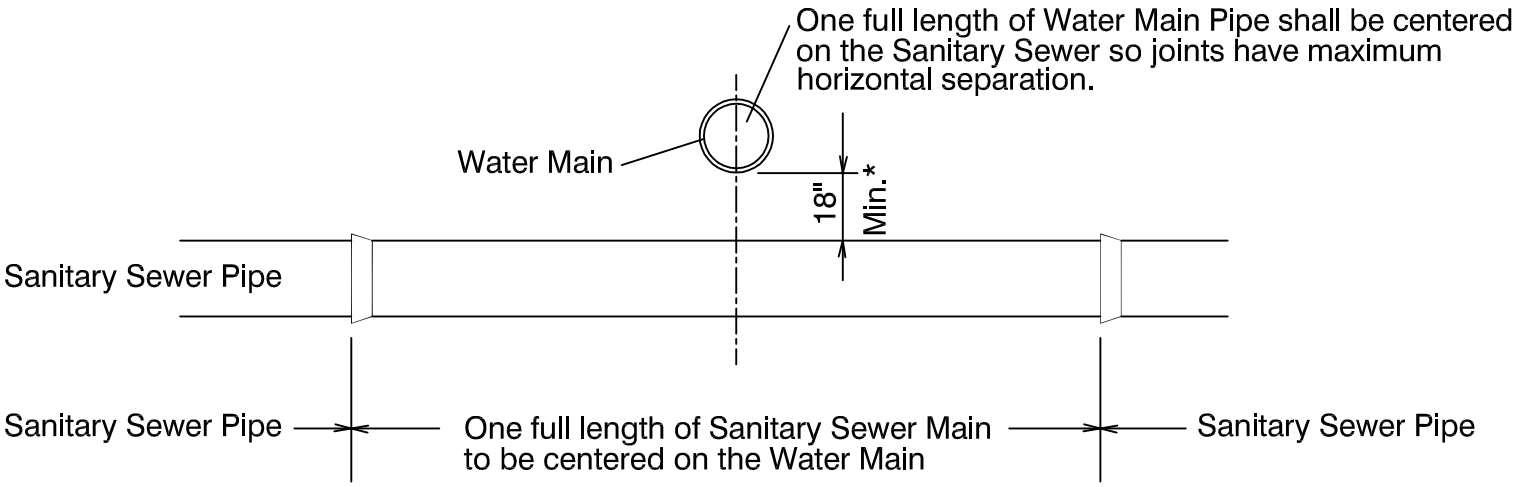
TYPICAL SETTING OF FIRE HYDRANT WITH AUXILIARY GATE VALVE



TYPICAL CONNECTION FOR COPPER TUBING
TO WATER MAIN USING A CORPORATION STOP



Sanitary Sewer Crossing over Water Main



NOTE:
Crossing of sewer and water mains shall be in accordance with current Nebraska DHHS and DEQ requirements.

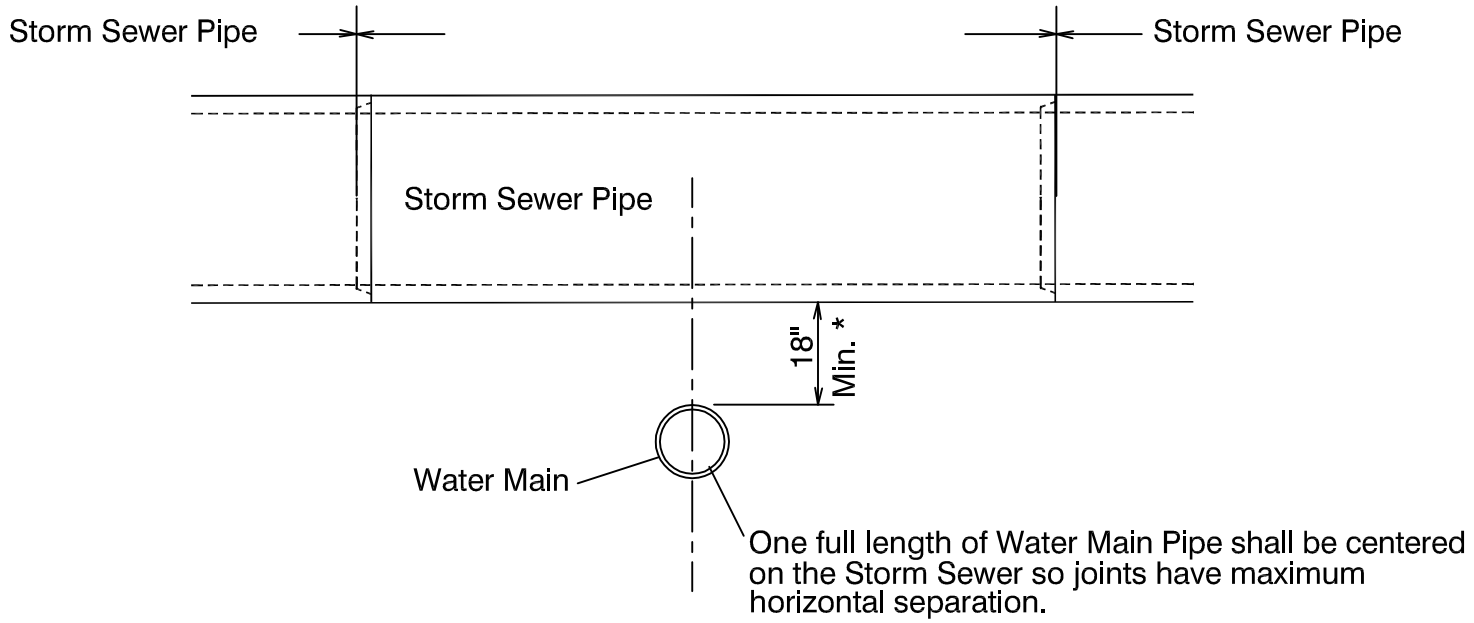
*If separation is less than 18" contact City Engineer. If separation is between 6" and 18" AWWA pressure class 150 psi pipe may be used for sewer main. One full stick of pipe shall be centered on water main if approved by City Engineer.

Sanitary Sewer Crossing under Water Main

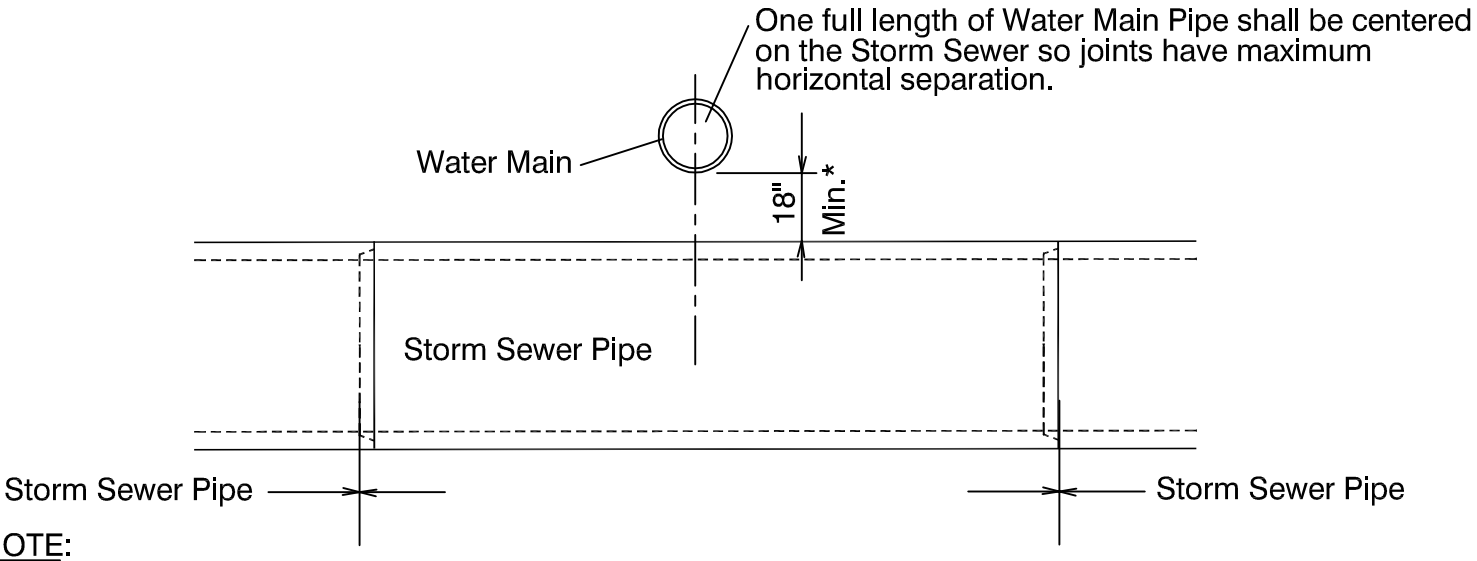
Sanitary Sewer - Water Main Crossings

s:\dept\eng\standspec\sewer\sanitarysewer-watermaincrossing-v-17 No Scale

11/2017



Storm Sewer Crossing over Water Main



NOTE:
Crossing of sewer and water mains shall be in accordance with current Nebraska DHHS and DEQ requirements.

*If separation is less than 18" contact City Engineer. If separation is between 6" and 18" AWWA pressure class 150 psi pipe may be used for sewer main. One full stick of pipe shall be centered on water main if approved by City Engineer.

Storm Sewer Crossing under Water Main

Storm Sewer - Water Main Crossings

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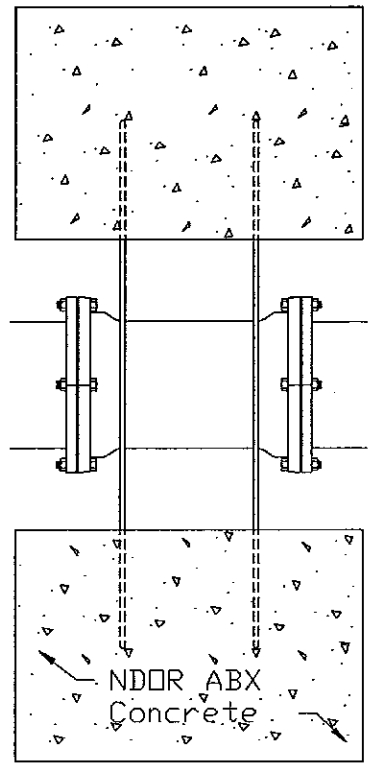
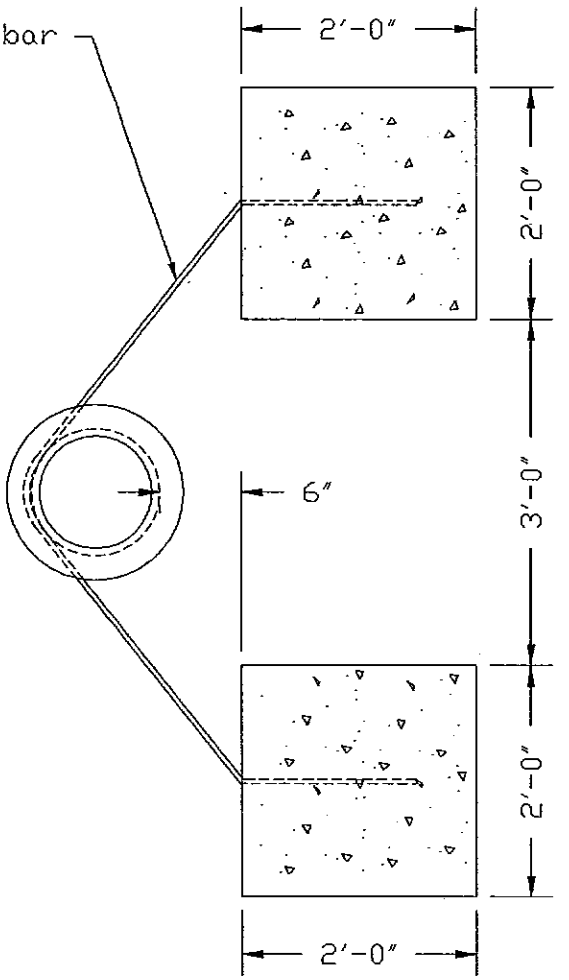
11/2017

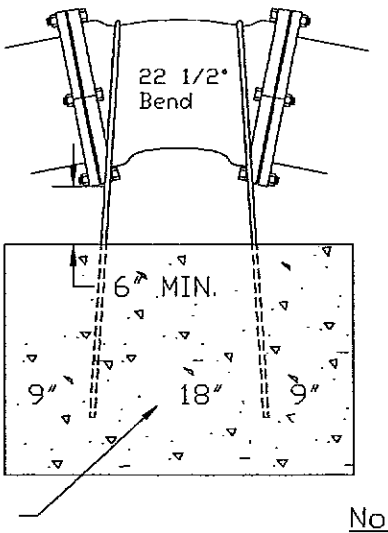
DETAILS OF ANCHORING



TOP VIEW (N.T.S.)



CROSS SECTION (N.T.S.)



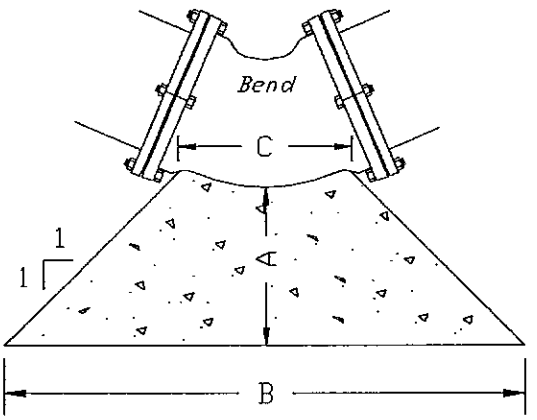
PROFILE (N.T.S.)

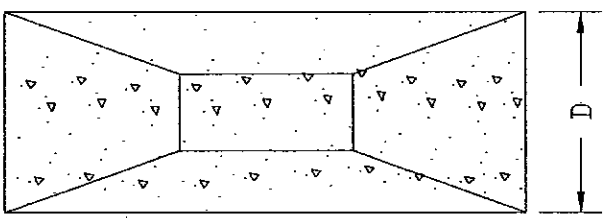
Anchors for 11 1/4" Bend
should be 1' Wide x
1 1/2' Deep x 3' Long

Note:
Anchors should be formed by excavating correct size in undisturbed earth.

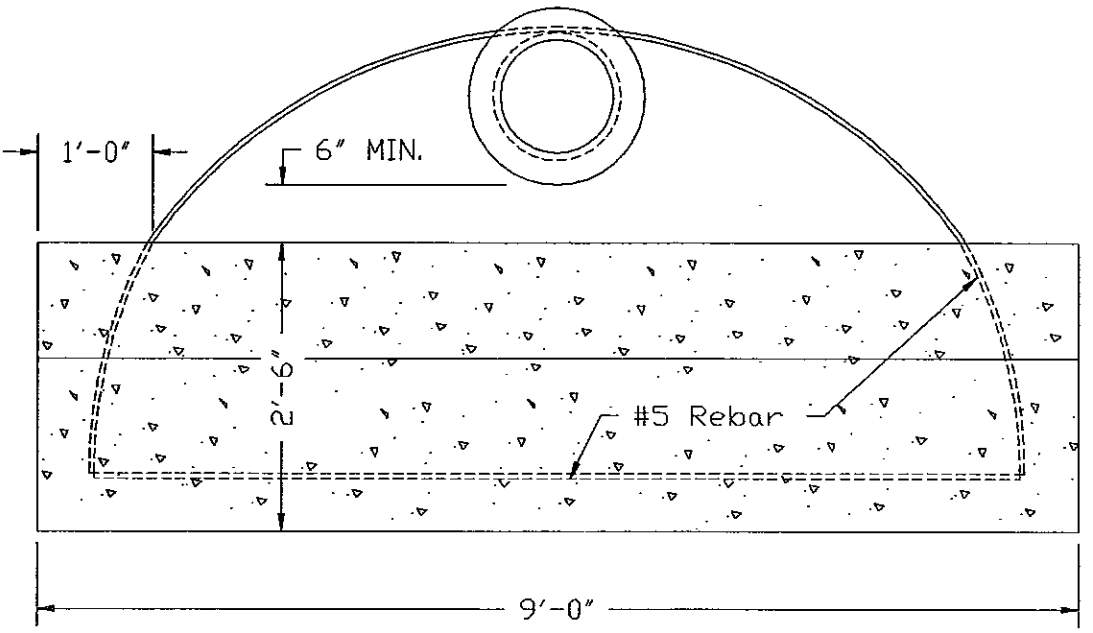
Fittings	A	B	C	D
12"-11.25° Bend	1'	3.04'	1.04'	1'
12"-22.5° Bend	1'	3.12'	1.12'	1.3'
12"-45° Bend	1.5'	4.5'	1.5'	1.75'
12"-90° Bend	1.5'	5.37'	2.37'	2.75'
12" Plug	1'	3.1'	1.12'	3.1'
12" Tee	1'	4.5'	2.5'	3.3'
8"-11.25° Bend	1'	2.6'	.62'	.67'
8"-22.5° Bend	1'	2.75'	.75'	.75'
8"-45° Bend	1'	2.84'	.84'	1.5'
8"-90° Bend	1.5'	4.64'	1.64'	1.5'
6"-11.25° Bend	1'	2.6'	.62'	.67'
6"-22.5° Bend	1'	2.75'	.75'	.75'
6"-45° Bend	1'	2.84'	.84'	1.5'
6"-90° Bend	1.5'	4.64'	1.64'	1.5'

This view side view for vertical fittings & top view for horizontal fittings

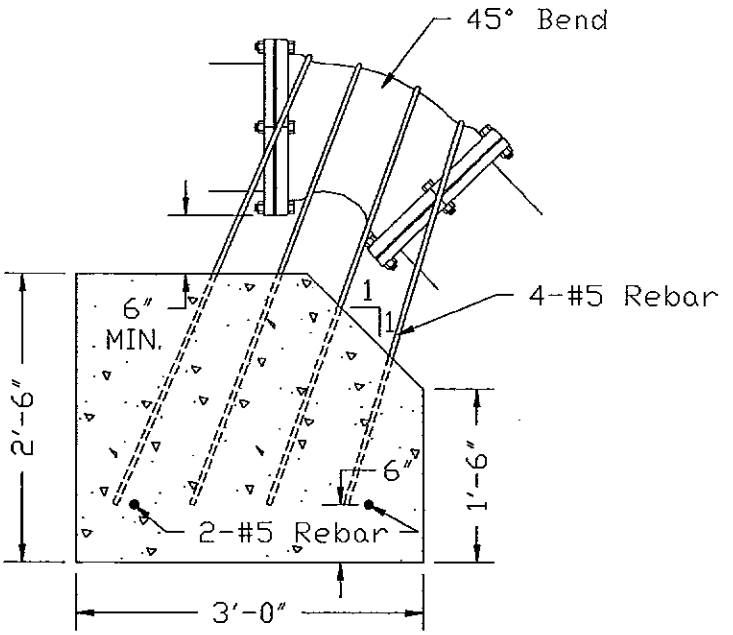




This view top view for vertical fittings & side view for horizontal fittings

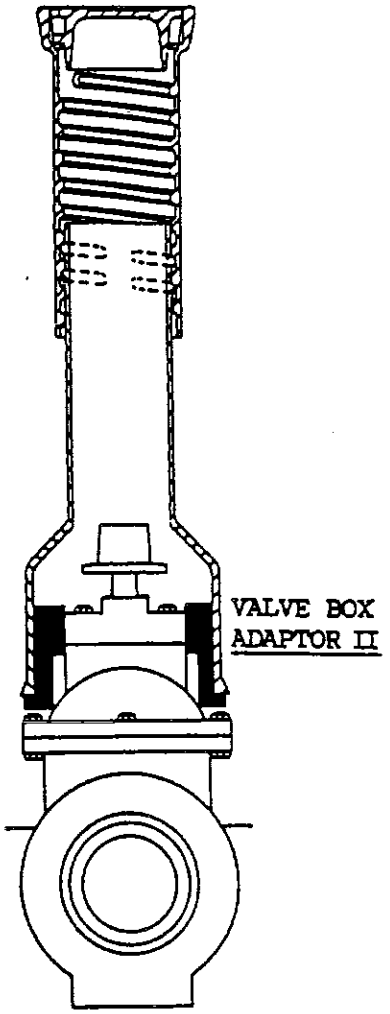


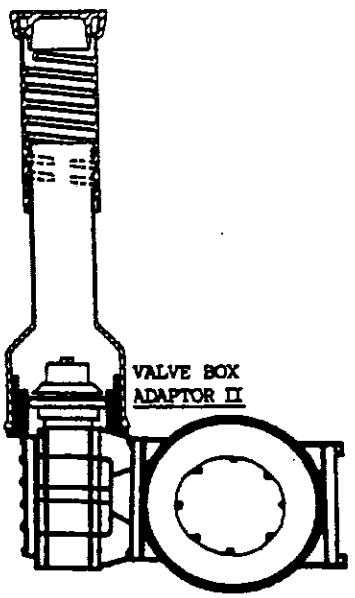
CROSS SECTION (N.T.S.)



PROFILE (N.T.S.)

VALVE BOX ADAPTOR II





PAT. PENDING

* Maintains Proper Box Setting
* Eliminates Settling and Shifting of the Gate Valve and Butterfly Valve Boxes
* Seals the Valve Box on the Valve with a resilient material
* Manufactured from Recycled Rubber
* Cost Effective

The VALVE BOX ADAPTOR II is a proven method for the installation of a Gate Valve, Butterfly Valve Box Setting

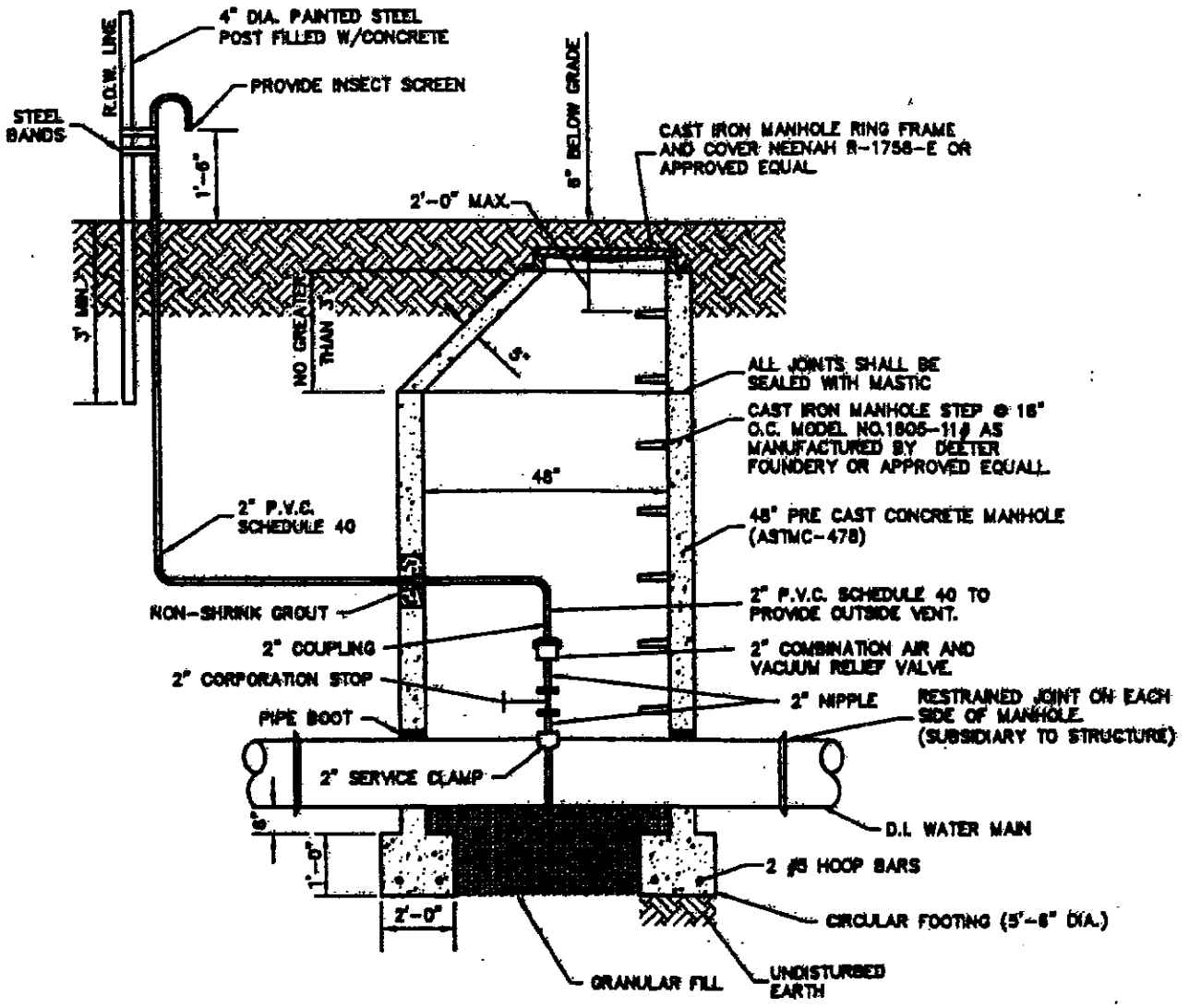
The VALVE BOX ADAPTOR II ensures a perfect setting of the Key Box on the Valves. Eliminating the usual problems associated with backfilling, settling, shifting or an improper setting of the Key Box over the Valve

The VALVE BOX ADAPTOR II is cost effective, by omitting any future costs for excavation and resetting of the Valve Box

Manufactured for all types and sizes of Gate Valve, Butterfly Valves and Valve Boxes for water, gas and wastewater valves

Revised 3/2008

ADAPTOR INC. 2033 South 54th Street ~ West Allis, WI. 53219 ~ (414) 764-6733 ~ Fax(414) 764-1494



NOTE: COMBINATION AIR AND VACUUM RELIEF VALVE SHALL BE APCO/VALVE AND PRIMER "SINGLE BODY COMBINATION AIR VALVE" OR VAL-MATIC "COMBINATION AIR VALVE" OR MULTIPLEX "CRISPEN UNIVERSAL AIR RELEASE VALVE"

AIR RELEASE STRUCTURE DETAIL

NOT TO SCALE