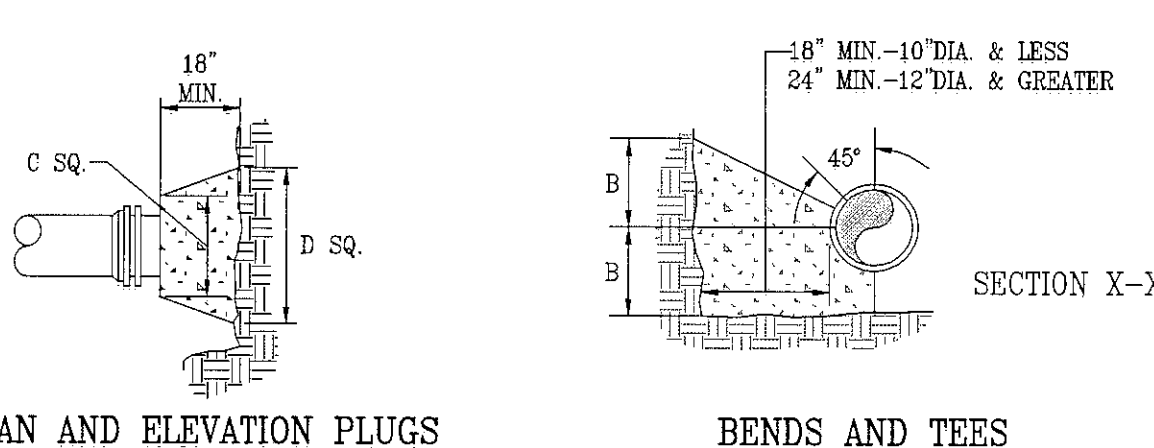


SECTION OF VERTICAL BEND

- NOTES:
1. FOR VERT. BEND DOWN IN EXCESS OF 1 1/4" BEND, ANCHORS SHALL BE DESIGNED BY ENGINEER.
  2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
  3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.
  4. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
  5. THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
- PRESSURE = 300 psf  
BEARING = 2000 psf  
FACTOR OF SAFETY = 1.5

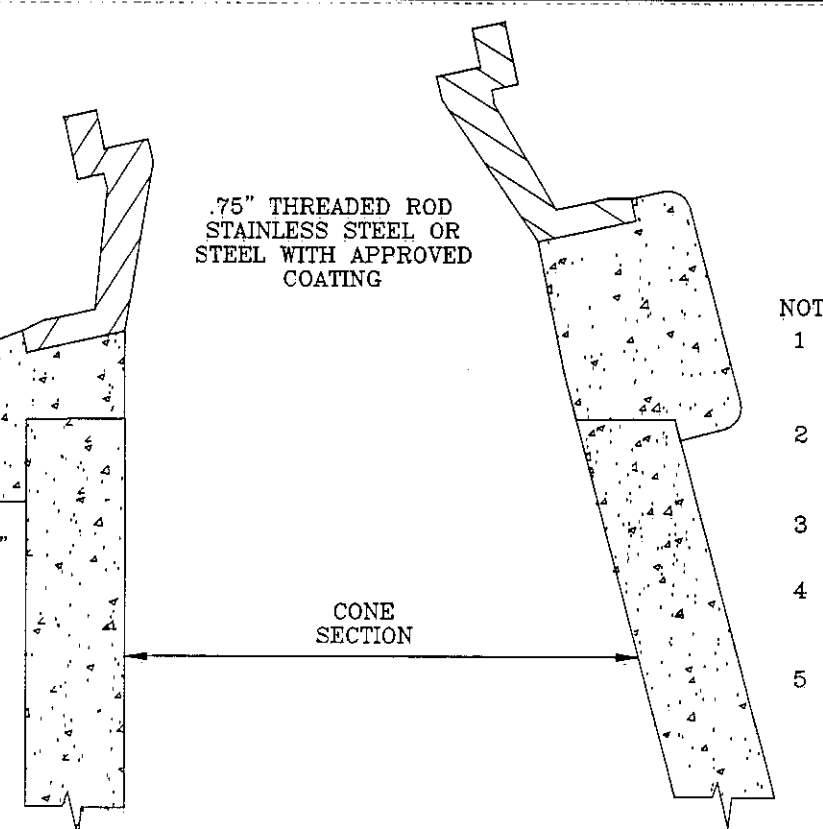


PLAN AND ELEVATION PLUGS

BENDS AND TEES

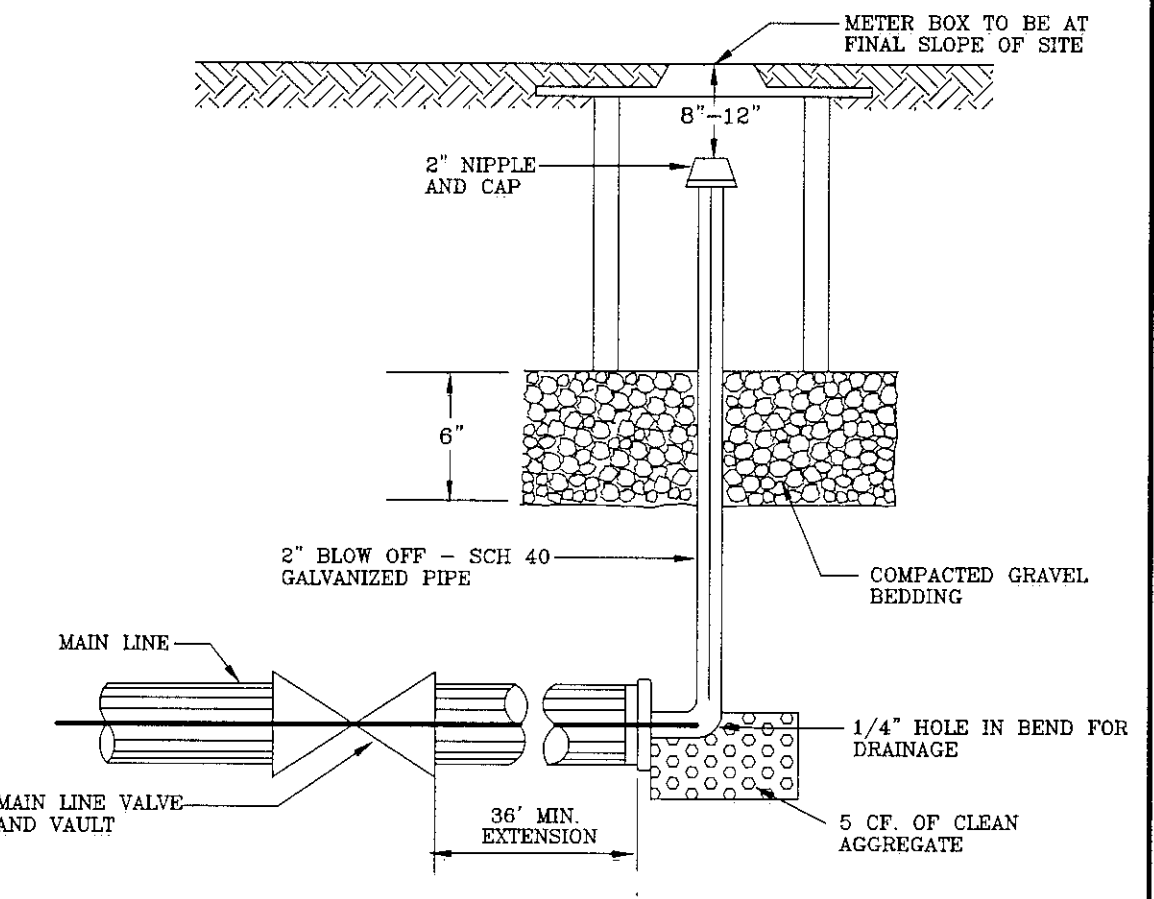
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE	PLUG
4"	8"	8"	8"	8"	8"	8"
6"	12"	12"	12"	12"	12"	12"
8"	18"	18"	18"	18"	18"	18"
10"	24"	24"	24"	24"	24"	24"
12"	30"	30"	30"	30"	30"	30"
14"	36"	36"	36"	36"	36"	36"
16"	42"	42"	42"	42"	42"	42"
18"	48"	48"	48"	48"	48"	48"
20"	54"	54"	54"	54"	54"	54"
24"	66"	66"	66"	66"	66"	66"
30"	84"	84"	84"	84"	84"	84"

THRUST BLOCK CONSTRUCTION  
NO SCALE

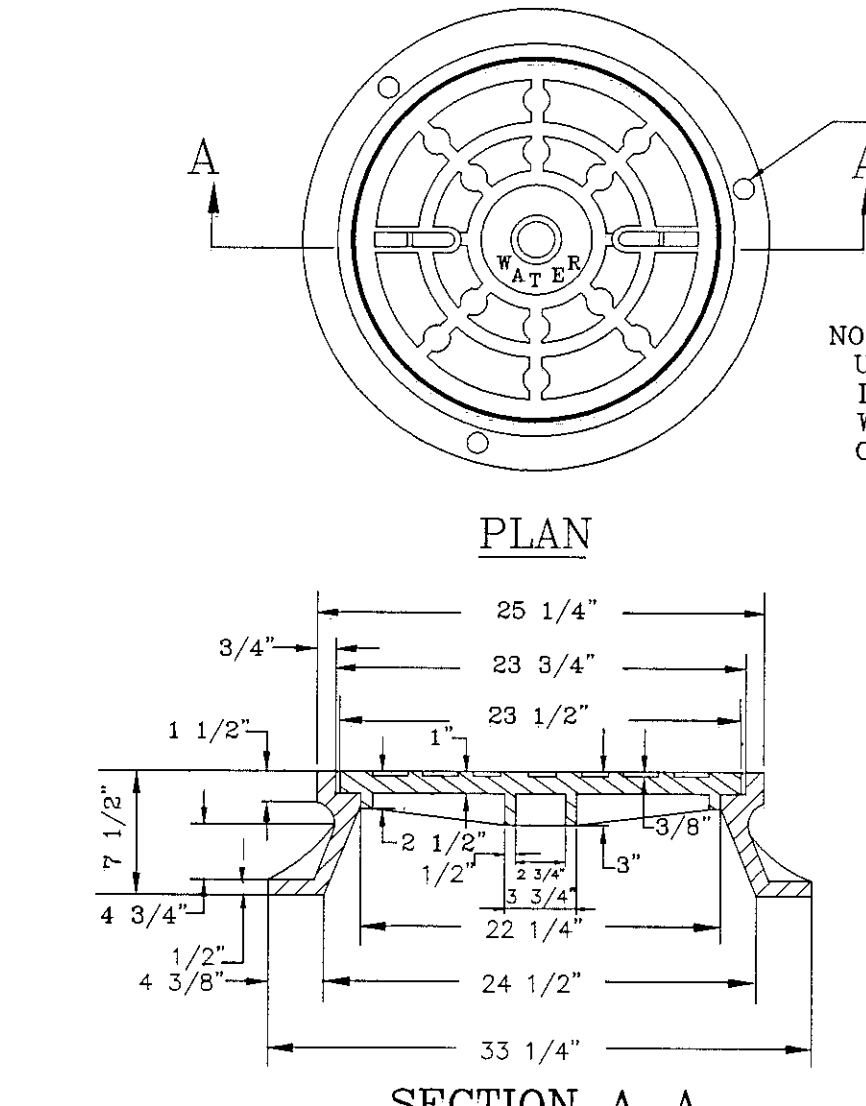


SECTION

INSTALLATION DETAIL  
FOR ALL FRAMES AND COVERS

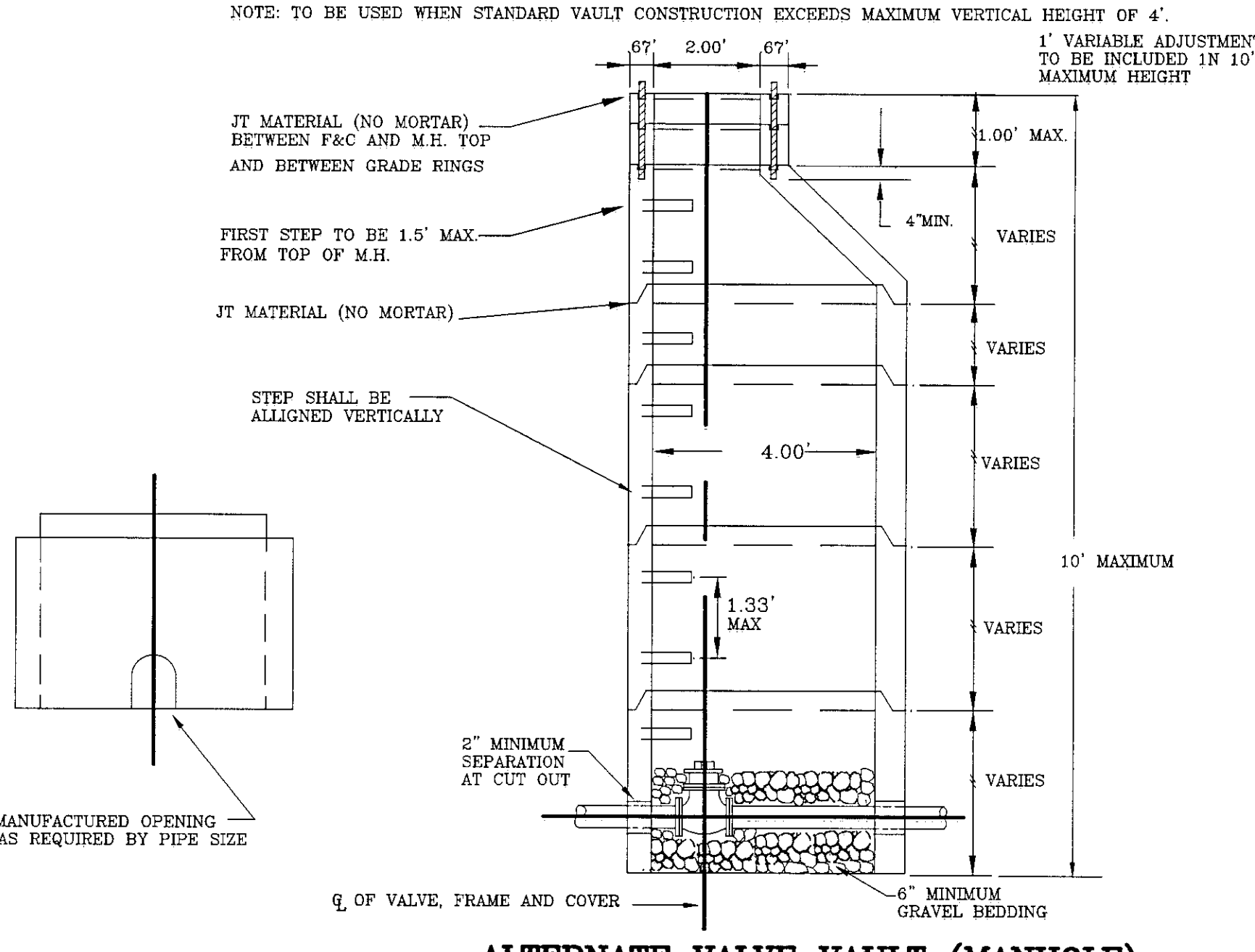


BLOW OFF ASSEMBLY FOR MAIN LINE  
TEMPORARY TERMINATION

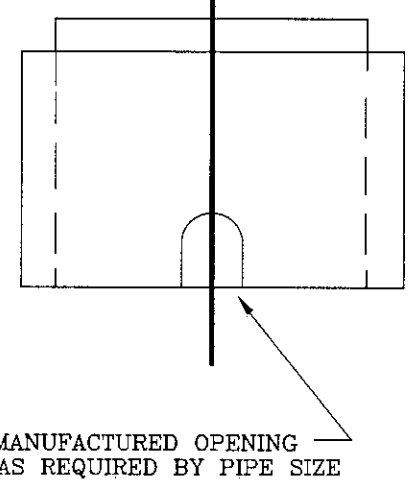


MANHOLE FRAME AND COVER  
PAVED 2001EC  
UNPAVED 2001(ABOVE)

NOTE: USE DEWEY BROTHERS INC. MH-RCR-2000 OR 2001 WATER TIGHT FRAME & COVER IN PAVED AREAS.



ALTERNATE VALVE VAULT (MANHOLE)



MANUFACTURED OPENING  
AS REQUIRED BY PIPE SIZE

NOTE: TO BE USED WHEN STANDARD VAULT CONSTRUCTION EXCEEDS MAXIMUM VERTICAL HEIGHT OF 4'.

1" VARIABLE ADJUSTMENT  
TO BE INCLUDED IN 10' MAXIMUM HEIGHT

4" MIN. TYP.

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