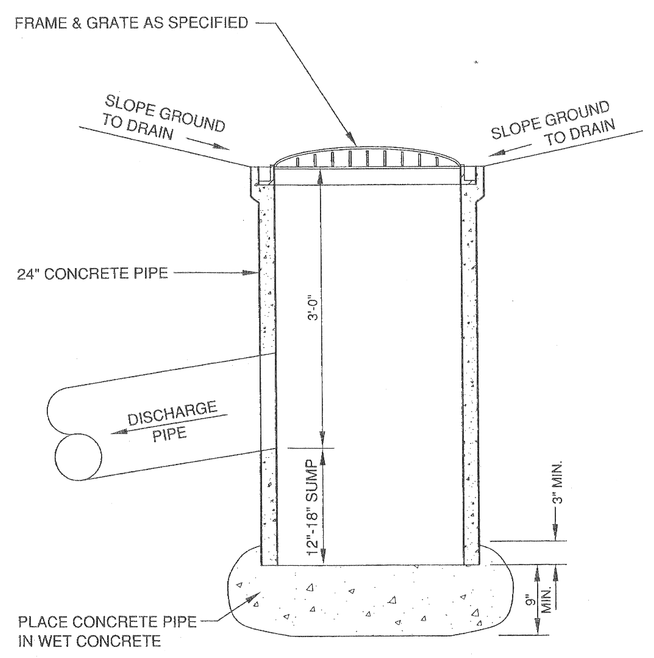
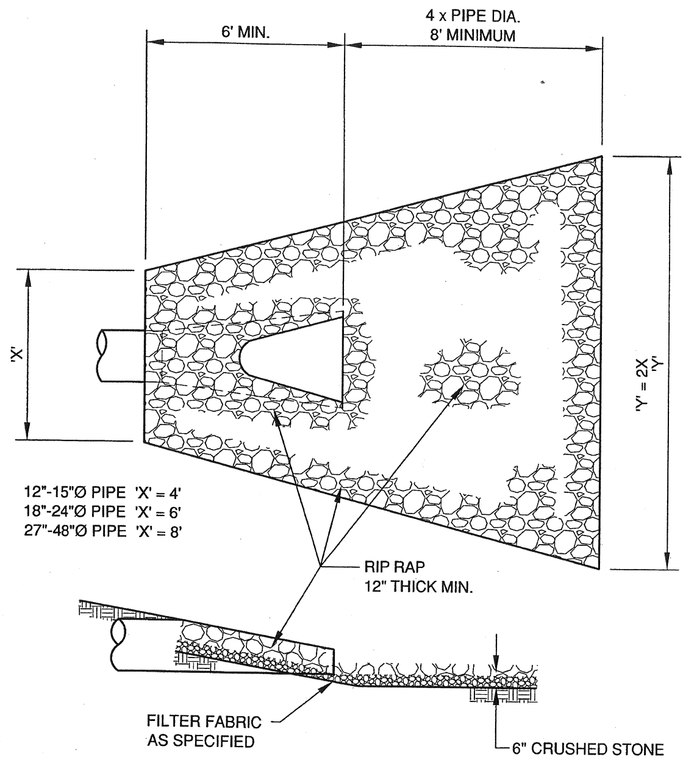


TYPICAL YARD DRAIN WITH SUMP

9 C111 TYPICAL YARD DRAIN WITH SUMP

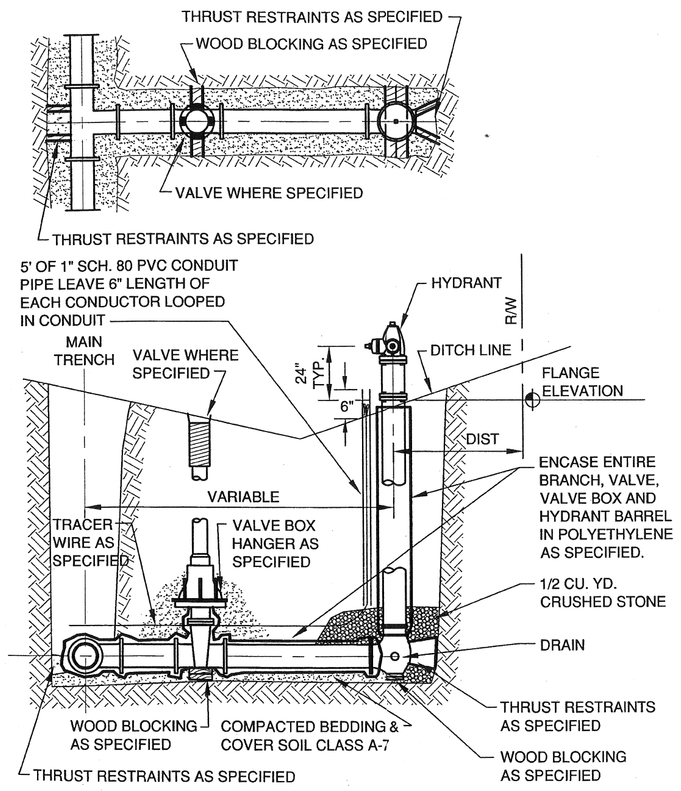
NOT TO SCALE



ENDWALL RIP RAP DETAIL

10 C111 ENDWALL RIP RAP DETAIL

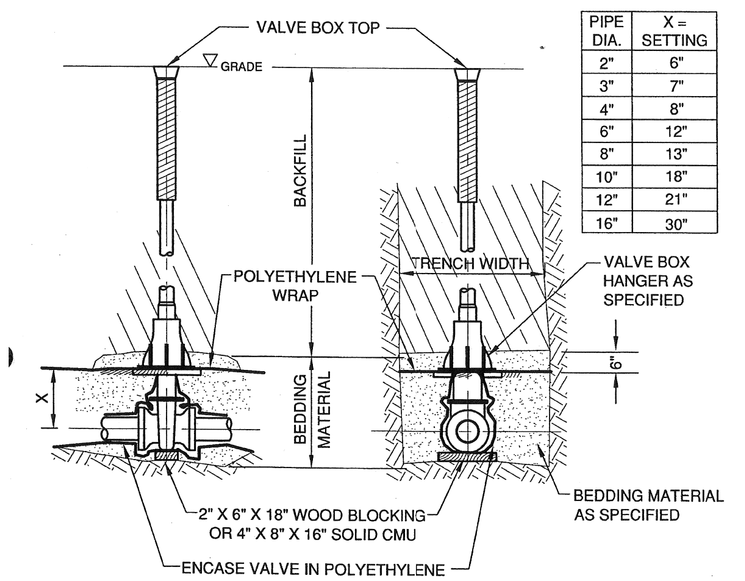
NOT TO SCALE



STANDARD HYDRANT SETTING DITCH SECTION

11 C111 STANDARD HYDRANT SETTING DITCH SECTION

NOT TO SCALE



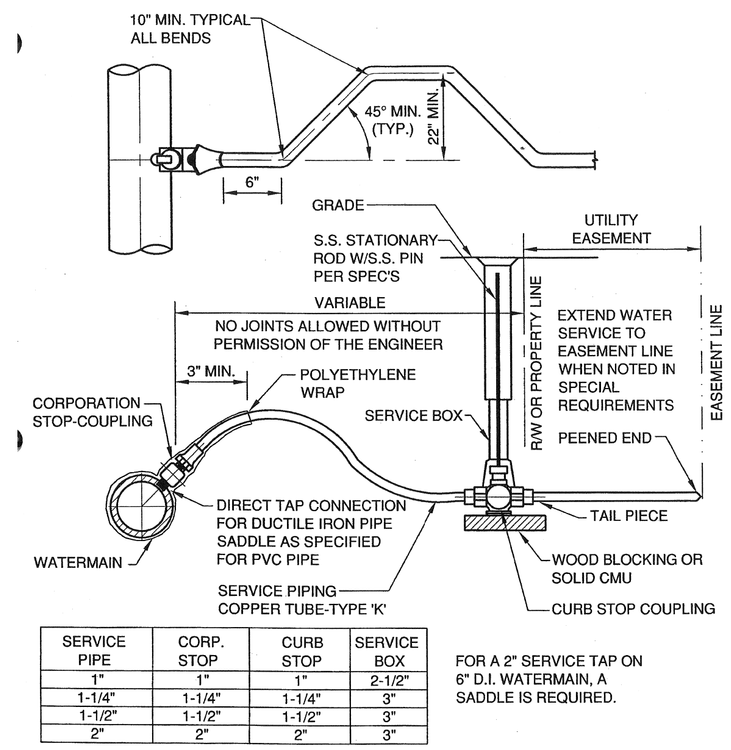
PIPE DIA.	X = SETTING
2"	6"
3"	7"
4"	8"
6"	12"
8"	13"
10"	18"
12"	21"
16"	30"

SIDE VIEW FRONT VIEW

VALVE BOX SETTING

12 C111 VALVE BOX SETTING

NOT TO SCALE



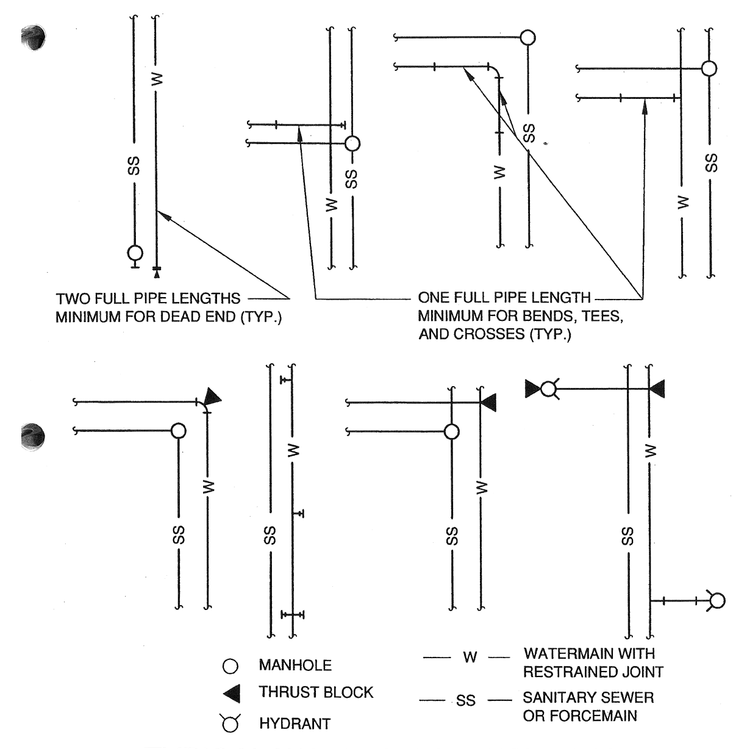
SERVICE PIPE	CORP. STOP	CURB STOP	SERVICE BOX
1"	1"	1"	2-1/2"
1-1/4"	1-1/4"	1-1/4"	3"
1-1/2"	1-1/2"	1-1/2"	3"
2"	2"	2"	3"

FOR A 2" SERVICE TAP ON 6" D.I. WATERMAIN, A SADDLE IS REQUIRED.

TAP SERVICE PIPING (COPPER)

13 C111 TAP SERVICE PIPING (COPPER)

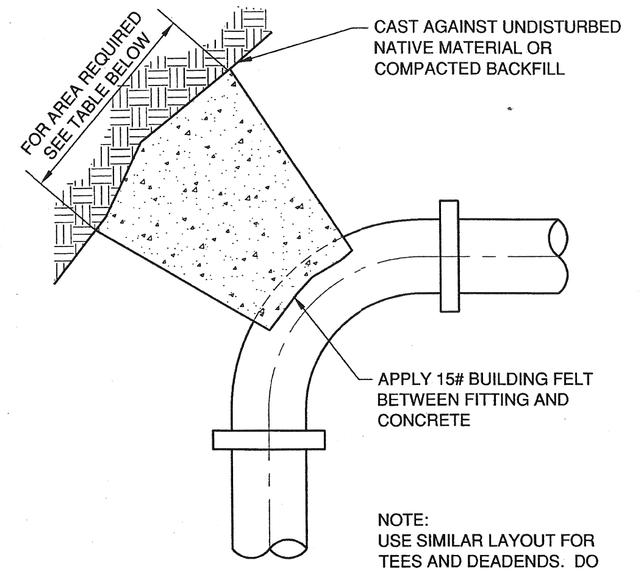
NOT TO SCALE



TYPICAL WATERMAIN RESTRAINT REQUIREMENTS FOR COMMON TRENCH CONSTRUCTION

14 C111 TYPICAL WATERMAIN RESTRAINT REQUIREMENTS FOR COMMON TRENCH CONSTRUCTION

NOT TO SCALE

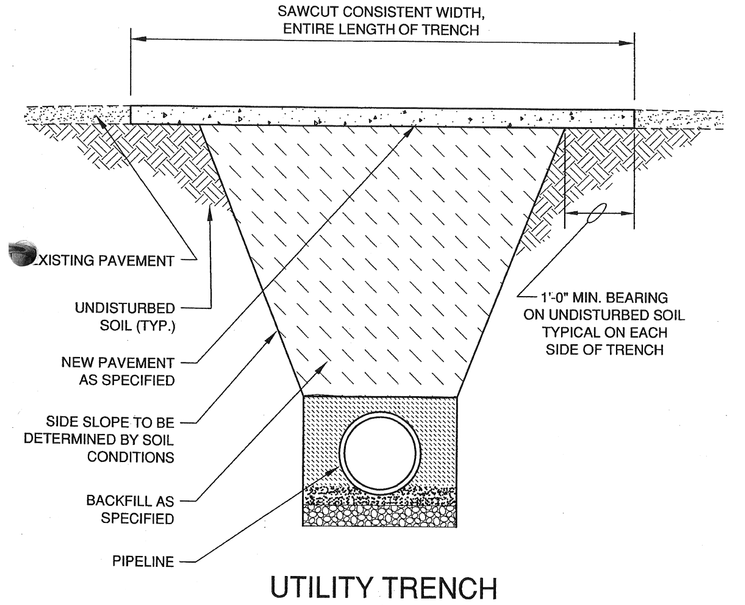


THRUST BLOCK AREA REQUIREMENTS, SQ. FT.				
DEGREE OF BEND	4" PIPE	6" PIPE	8" PIPE	10" PIPE
5° TO 22.5°	0.5	0.5	1.0	1.5
23° TO 45°	0.5	1.0	2.0	3.0
46° TO 90°	1.0	2.0	4.0	6.0
TEE OR DEAD END	1.0	2.0	4.0	6.0

TYPICAL THRUST BLOCK

15 C111 TYPICAL THRUST BLOCK

NOT TO SCALE



UTILITY TRENCH PAVEMENT RESTORATION

16 C111 UTILITY TRENCH PAVEMENT RESTORATION

NOT TO SCALE

SISTER BAY SPORTS COMPLEX

Owner:

VILLAGE OF SISTER BAY, WI

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Design Development Progress Set		3/20/08
95% Review Plan Set		6/5/08

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN

PROJECT NORTH

DRAWING TITLE

UTILITY DETAILS

SCALE 24684.001

PROJECT NUMBER

C111

DRAWING NUMBER

FILE: P:\24684\001\CAD\sheet\24684-SH-DET-UTILITIES-SCAN.dwg USER: hellford DATE: Jun. 18 2008 TIME: 10:16 am