

WINGHAVEN PHASE I
IMPROVEMENT PLANS FOR
CYPRESS KNOLL VILLAGE

PART OF U.S. SURVEY NO. 1669
AND PART OF SECTIONS 11 & 12
TOWNSHIP 46 NORTH RANGE 2 EAST
CITY OF FALLON, MISSOURI

NOTES:

- SERVICE TO BE RUN AT RIGHT ANGLES FROM METER BOX TO MAIN, AND MIN. 4" BELOW FINISHED GRADE OF METER BOX.
- USE STANDARD PRECAST TRAPEZOIDAL BOX WHERE AVAILABLE.
- BOX MAY BE CONSTRUCTED SQUARE, 4'x4' AND 3'-6" IN HEIGHT (INSIDE DIMENSIONS) OF CONCRETE OR CONCRETE BLOCK WITH REINFORCED CONCRETE TOP CENTERED OVER METER.
- GROUND MUST DRAIN AWAY FROM TOP OF BOX.
- CAST IRON LID AND FRAME TO BE SET IN PLACE, NOT IN CONCRETE.

SHUT-OFF VALVE
FROM MAIN TO BLDG.
BYPASS VALVE TO BE ON MAIN SIDE OF SETTER
SHUT-OFF VALVE BOX
22'-W" SQ. CAST IRON FRAME & LID
METER
3/4" CRUSHED STONE 2" MIN DEPTH
2" SERVICE
WATER METER BOX, 2" SERV.
N.T.S.

3'-0" (MIN.) W/O PIPE GUARDS
CONCRETE CURB
30# FELT
8 CU.FT. (+) GRAVEL
CONCRETE THRUST BLOCK
UNDISTURBED EARTH
CAST IRON VALVE BOX
6" GATE VALVE
SEE PLANS FOR PIPE SIZE
CONCRETE THRUST BLOCK
FIRE HYDRANT & VALVE
N.T.S.

NOTE: ALL FIRE HYDRANTS TO MEET THE WENTZVILLE FIRE PROTECTION DISTRICT STANDARDS & HAVE 2-2 1/2" CONNECTIONS & 1-4 1/2" CONNECTION GRADE.

THRUST RESTRAINT:
REACTION BLOCKING SHALL BE DESIGNED FOR A MINIMUM INTERNAL PIPE PRESSURE OF 300 POUNDS PER SQUARE INCH. THE BLOCKING SHALL BE KEPT CLEAR OF THE ENTIRE BELL CONFIGURATION OF ANY ADJACENT JOINT AND SHALL BE AT LEAST AS LARGE AS IS NECESSARY TO RESTRAIN THE FITTINGS FROM MOVEMENT.

TEE
90°
VALVE
45°

MINIMUM BEARING AREA IN SQUARE FEET

PIPE SIZE	BENDS			TEE	END
	1 1/2"	22"	45°		
6"	1	2	3.5	4.5	4.5
8"	1.5	3.25	6.5	8.5	8.5
10"	2.5	5	9.5	17.55	12.5
12"	3.62	7.2	14.13	26	18

BEARING AREAS ARE BASED ON SOIL HAVING AN ALLOWABLE SAFE LATERAL BEARING OF 1 TON PER SQUARE FOOT. AREA MUST BE REVISED FOR SOILS WITH A LOWER OR HIGHER BEARING CAPACITY.

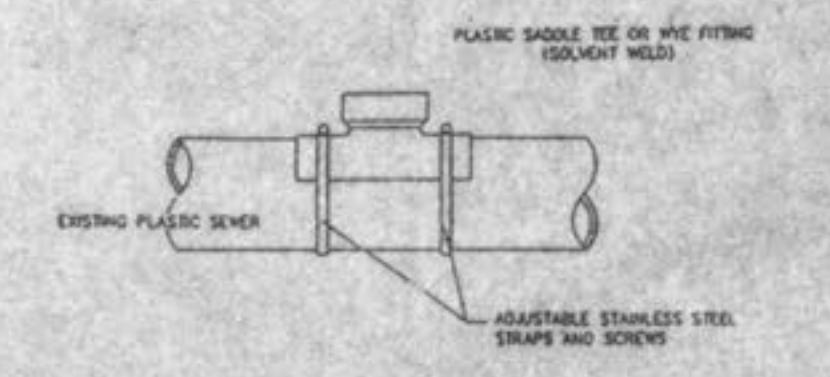
THRUST BLOCK DETAIL
N.T.S.

Diagonal Curb Ramp - 3" ROLLED CURB (TYPE B)
Straight Curb Ramp - 3" ROLLED CURB (TYPE 3)

NOTE: Positive (+) "G" - Proceeding away from intersection and up a grade.
Negative (-) "G" - Proceeding away from intersection and down a grade.

TYPE 3 CURB RAMP

"G" GRADE ALONG CURB (%)	"X" MIN. LENGTH OF RAMP SLOPE (L.F.)
NEGATIVE (-) VALUES	3
0 TO +2	4
+2.01 TO +3	5
+3.01 TO +4	6
+4.01 TO +5	8
+5.01 TO +6	11
GREATER THAN +6	15



WHEN A CONNECTION TO A PLASTIC PIPE IS ALLOWED AND A CONNECTION IS LARGER THAN 6" IN DIAMETER, A SOLVENT WELD WYE OR TEE FITTING OF A SIMILAR MATERIAL MUST BE USED. (EXAMPLE: 10" x 8")
THIS IS NOT TO BE USED FOR CEMENT PUTTING A HOLE INTO A PIPE AT THE LOCATION OF THE REQUIRED LOCATION THE FITTING AND SHOWN IN THE PLAN TO THE SIDE OF THE FITTING, THE FOLLOWING STEPS SHOULD BE TAKEN:

- CLEAN AND DRY BOTH HOLES SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
- APPROXIMATELY APPLY A LIBERAL HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE HOSE SURFACE OF THE SADDLE WYE AND TO THE EXTERIOR HOLDING SURFACE TO THE PIPE.
- REMOVE EXCESS WYE SURFACE AND EXCESS JOINT THICKLY. A HEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED DOWN TIGHTLY.
- USING A BAG OR PAPER TOWEL, Wipe HEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
- ALLOW 24-48 HOURS FOR SET-UP TIME BEFORE BACKFILLING. CURE THE JOINTS ON THE SET OF BACKFILL BEING PREPARED AND WINDING COLD CLAMP COORDINATE.
- DISCARD OLD SOLVENT IF IT BECOMES JELLED OR UNUSABLE.
- A CLEAN, DRY BEARING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEARING MATERIAL SHOULD BE ONE OF THE FOLLOWING:
 - WELL SET BEDDING.
 - 1 TO 3 CEMENT TO SAND MIX.
 - "YES-MIX" CONCRETE.

8" (& LARGER) CONNECTION TO PLASTIC MAIN

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1 6/26/98
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