PROPOSED WEST WATER LINES

MAYOR:
GENE F. MCGEE

ALDERMEN:

ANN ASSAF
LISA WALTERS
CAROLE DAVIS
LARRY ROBERTS
SCOTT JONES
LINDA TRUNZLER
GERALD STEEN

THE CITY OF

RIDGELAND

CITY STAFF

PUBLIC WORKS DIRECTOR:
SAM VINSON , P.E.

ASST. PUBLIC WORKS DIRECTOR:
SID HAWTHORNE

OCTOBER 1998

PWP-05043

Natchez Trace Parkway R.O.W.

Natchez Trace Parkway Right of Way

Old Agency Road

Robinwood Lane

Whippoorwill Lane

MOCKING BIRD LANE

Meadow Lark Lane

Bob White Lane

Blue Bird Lane

Ridgeland City Limits

Deed Book 323 Page 731

Deed Book 373 Page 298

Section 27, T7N, R1E, Madison County, Miss.
Section 28, T7N, R1E, Madison County, Miss.

NORTH
SCALE: 1" = 200'

PROPOSED WATER LINE

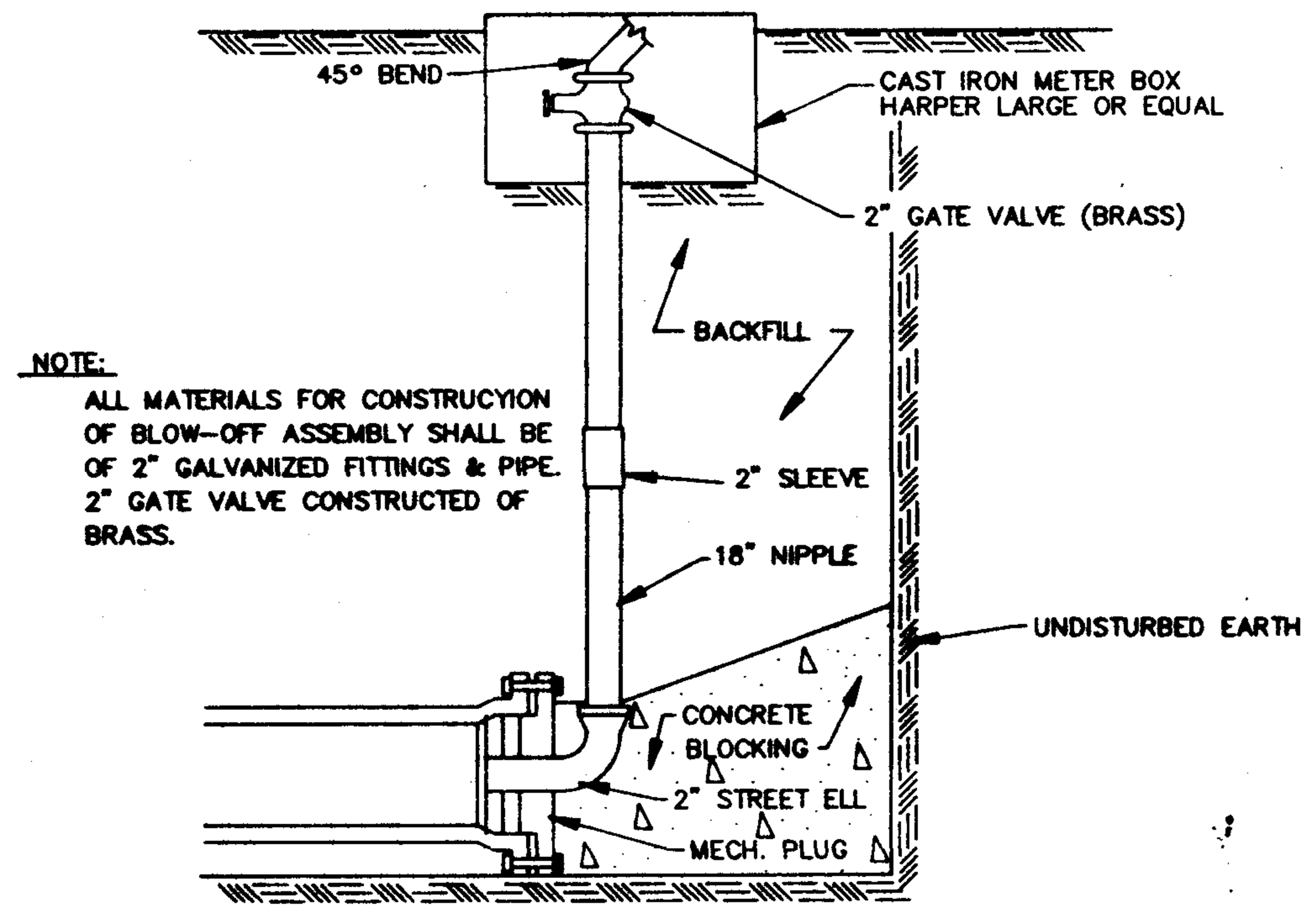
PROPOSED WATER VALVE

PROPOSED F.H. & VALVE

NOTES: ALL 12" W. L. IS D.I.P.
ALL 8" W. L. IS C-900

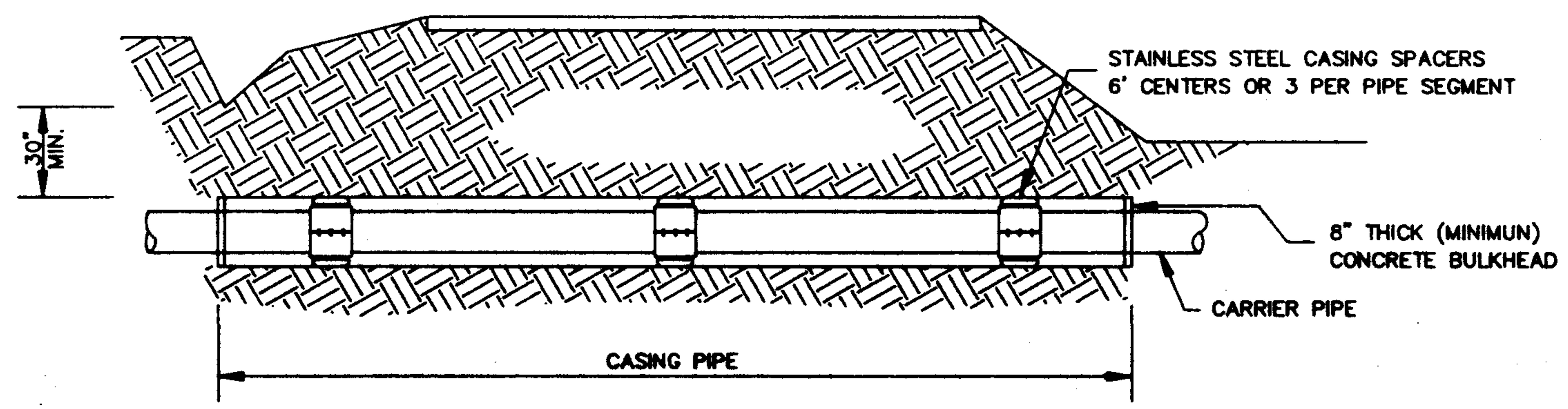
PROPOSED WEST WATER LINES
12" & 8"

DRAWN BY: B.R.M.	THE CITY OF RIDGELAND	WORKING NO. 1
REVIEWED BY: S.V.		SHEET NO. 2 OF 5



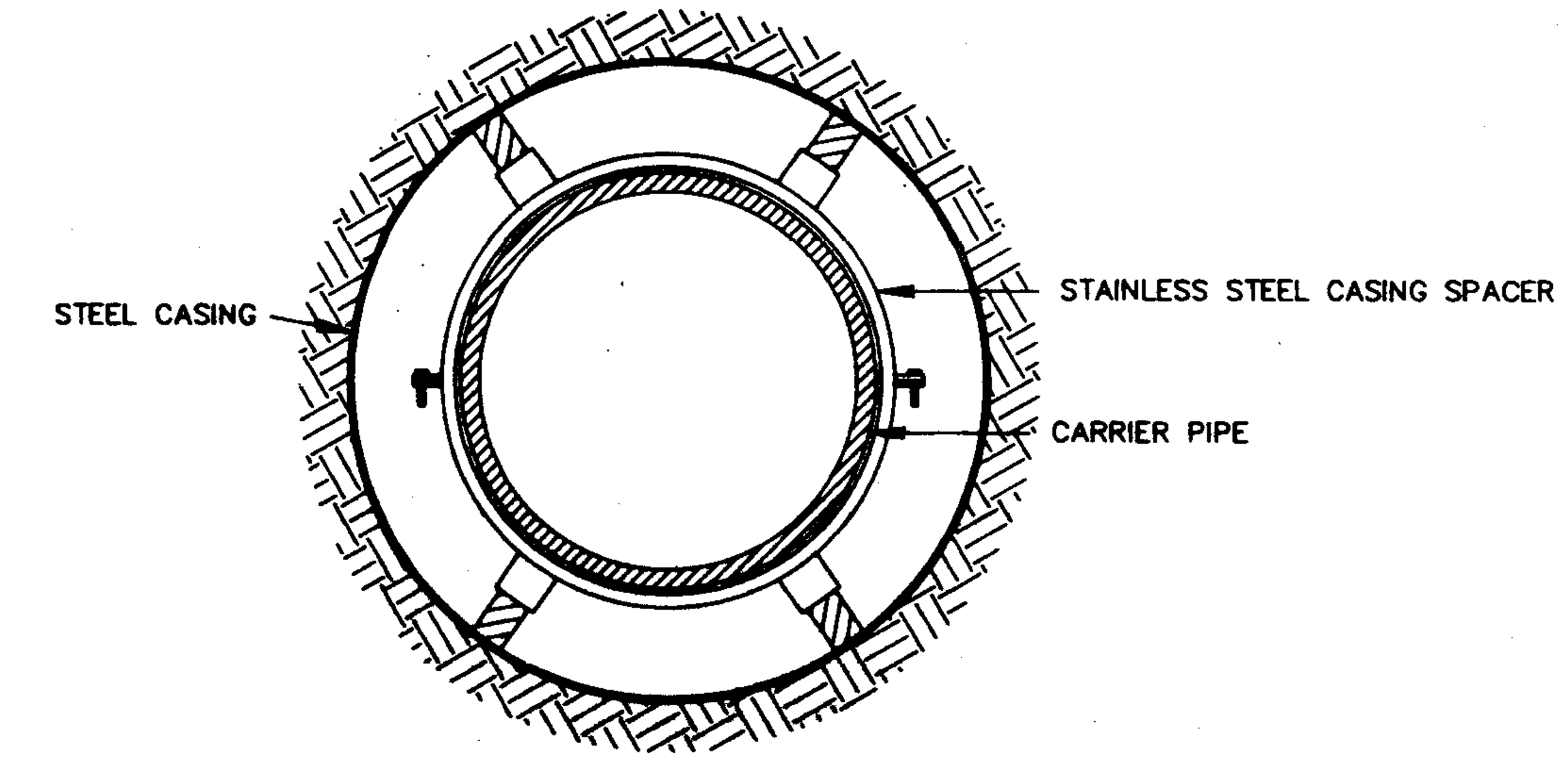
TYPICAL BLOW-OFF ASSEMBLY

N.T.S.



TYPICAL BORE SECTION

N.T.S.



BORE SECTION

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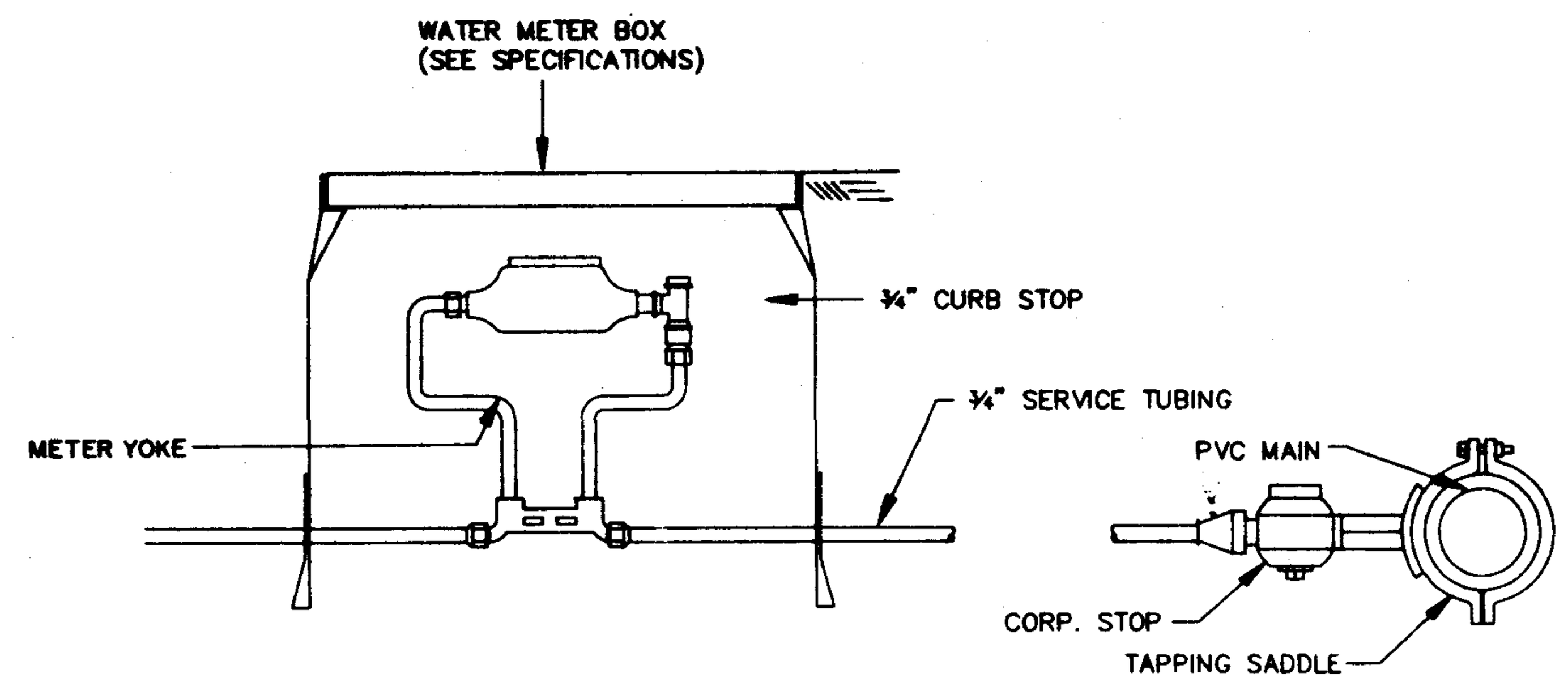
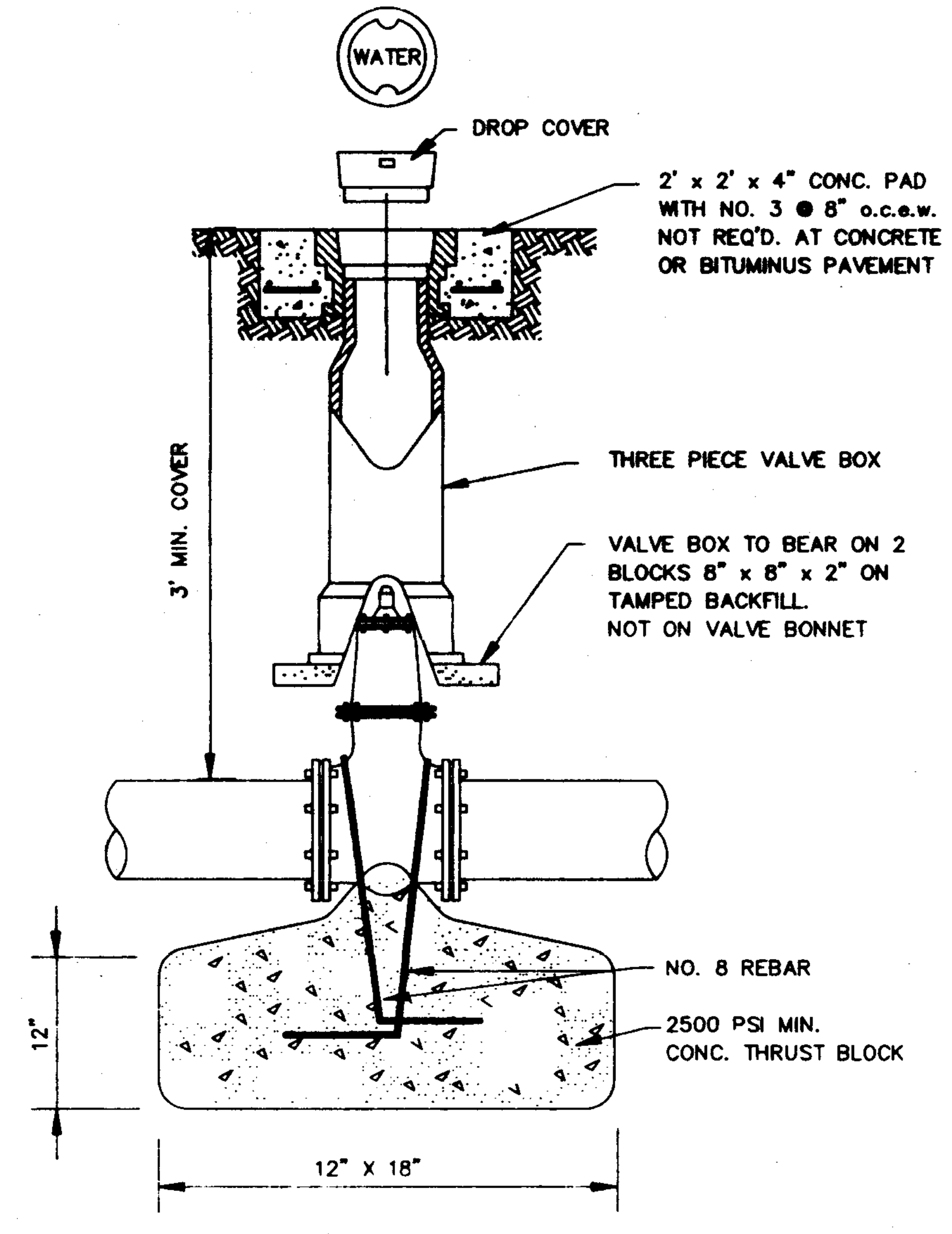


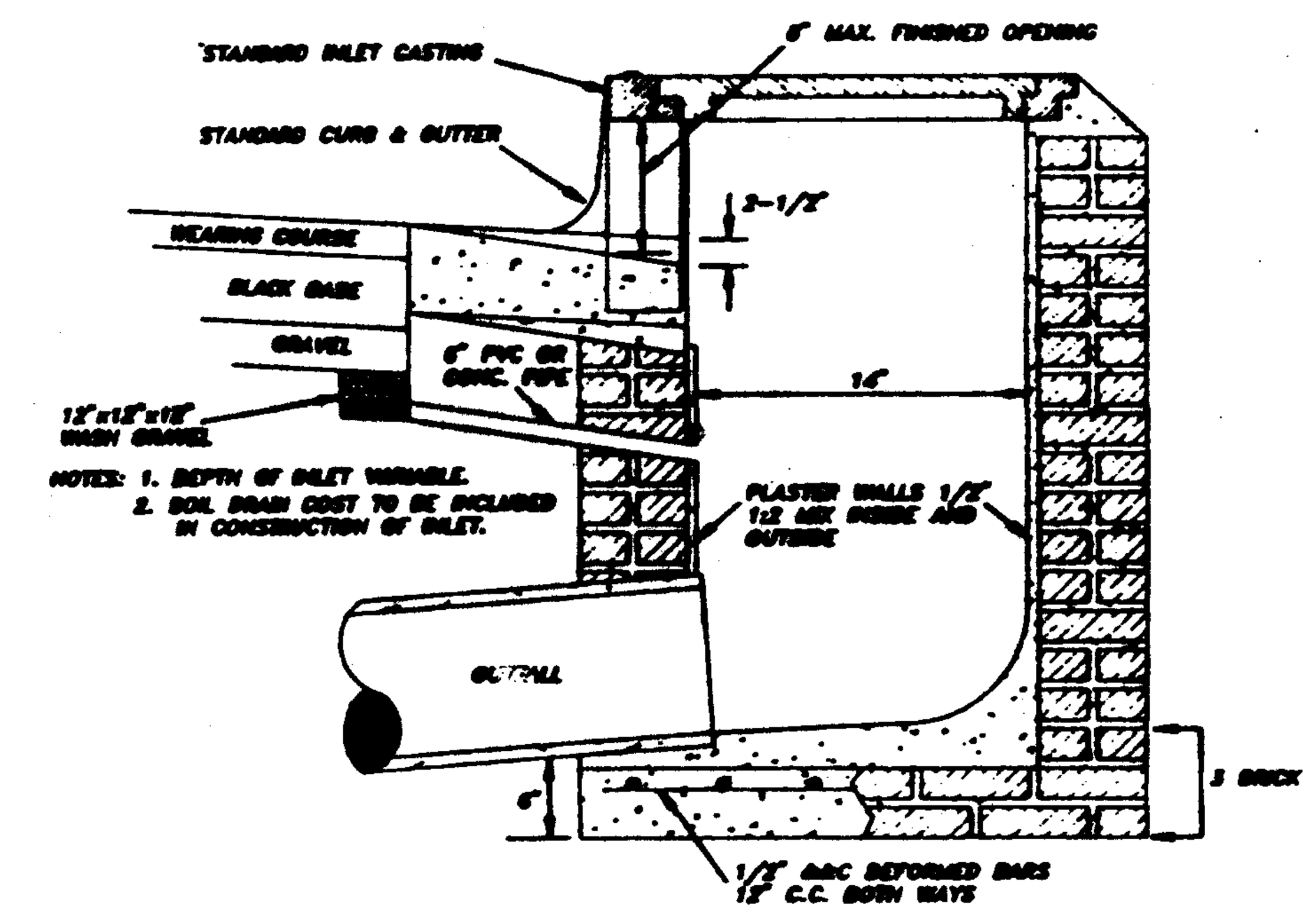
TYPICAL 3/4" WATER SERVICE

N.T.S.

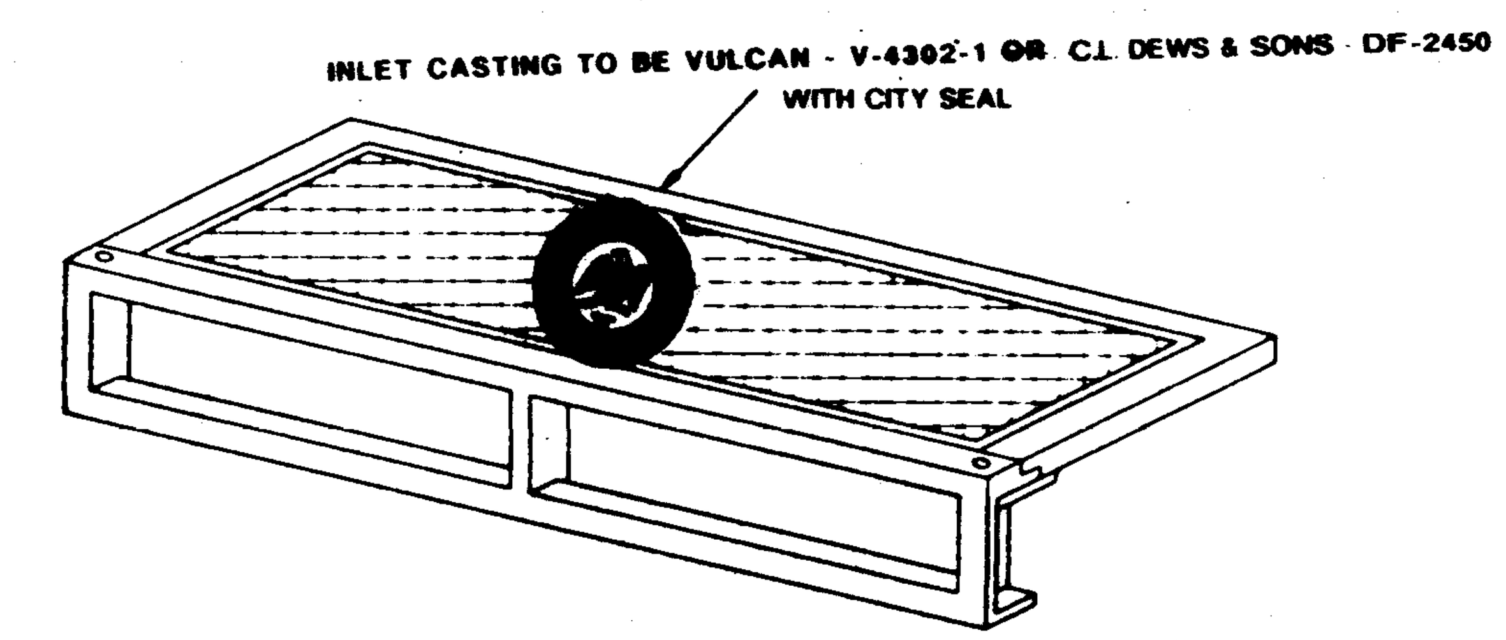


GATE VALVE DETAIL

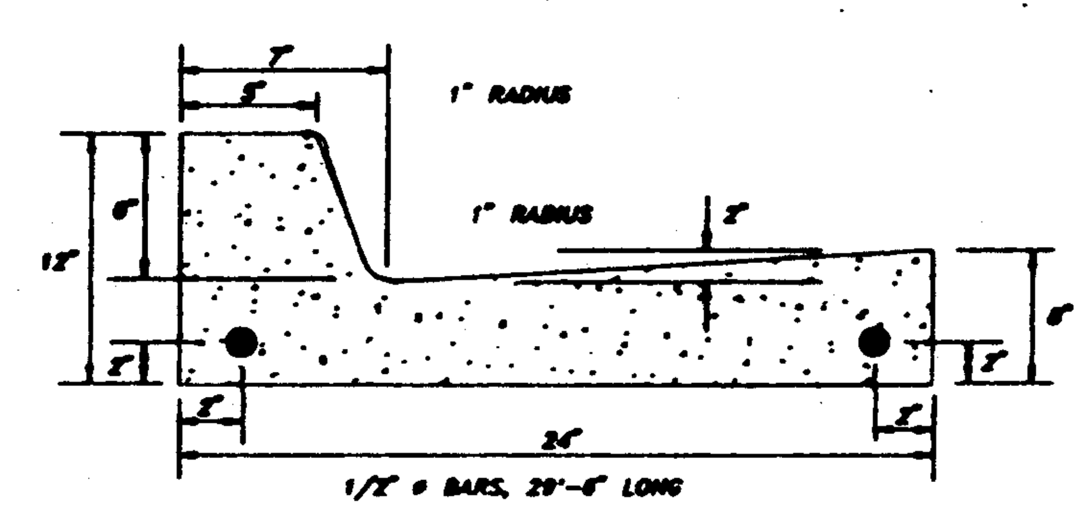
N.T.S.



SECTION OF STANDARD CURB INLET



STANDARD CURB INLET CASTING



NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.

2. 2 - 3/4" DOWEL BARS, 15" LONG REQD. AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

STANDARD CURB & GUTTER

CITY OF RIDGELAND, MS.

STANDARD DETAILS

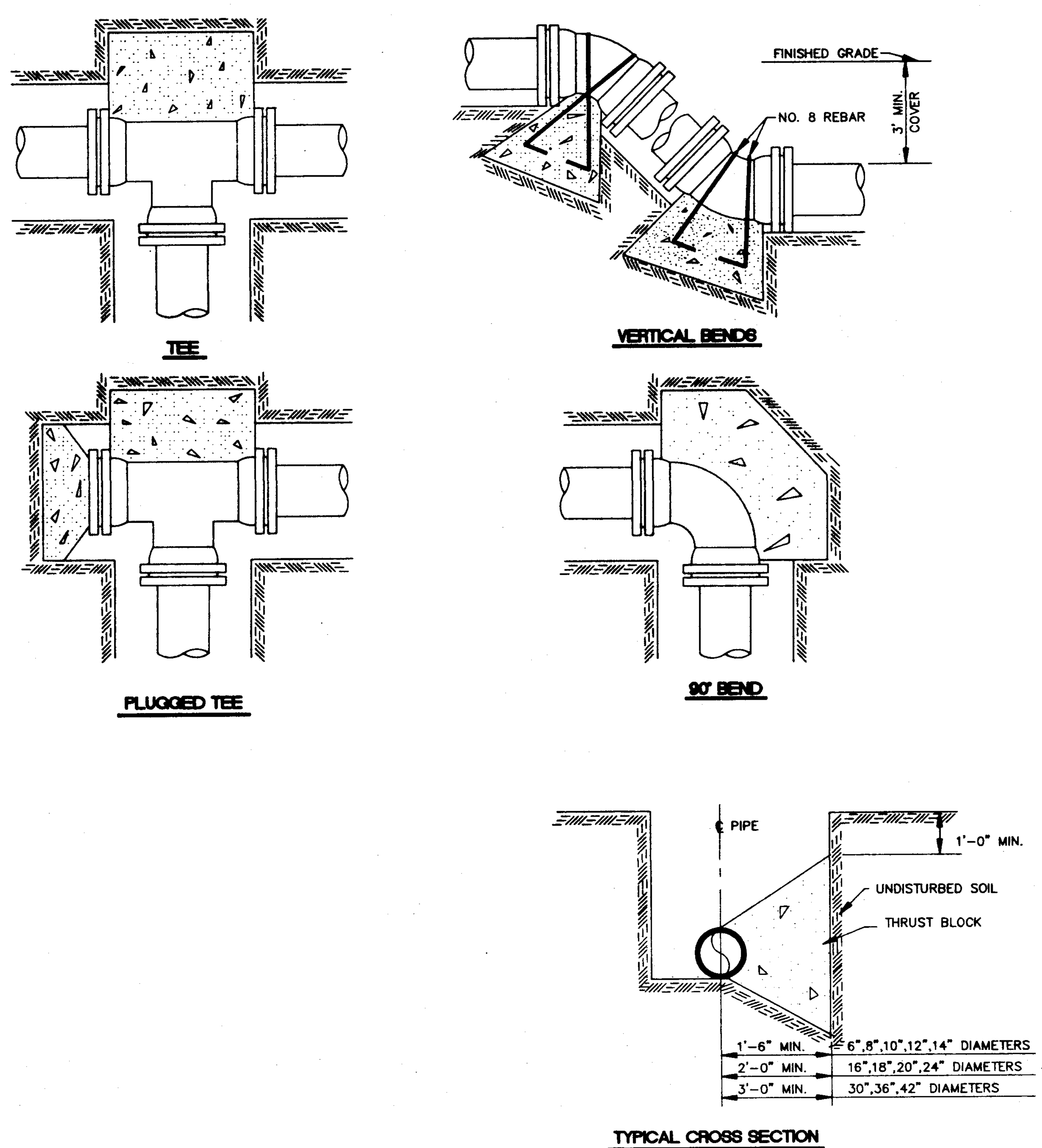
WEST WATER LINES

DSGN:	SV
DRWN:	BRM
CHKD:	SV
SCALE:	N.T.S.

THE CITY OF RIDGELAND

DRAWING NO.

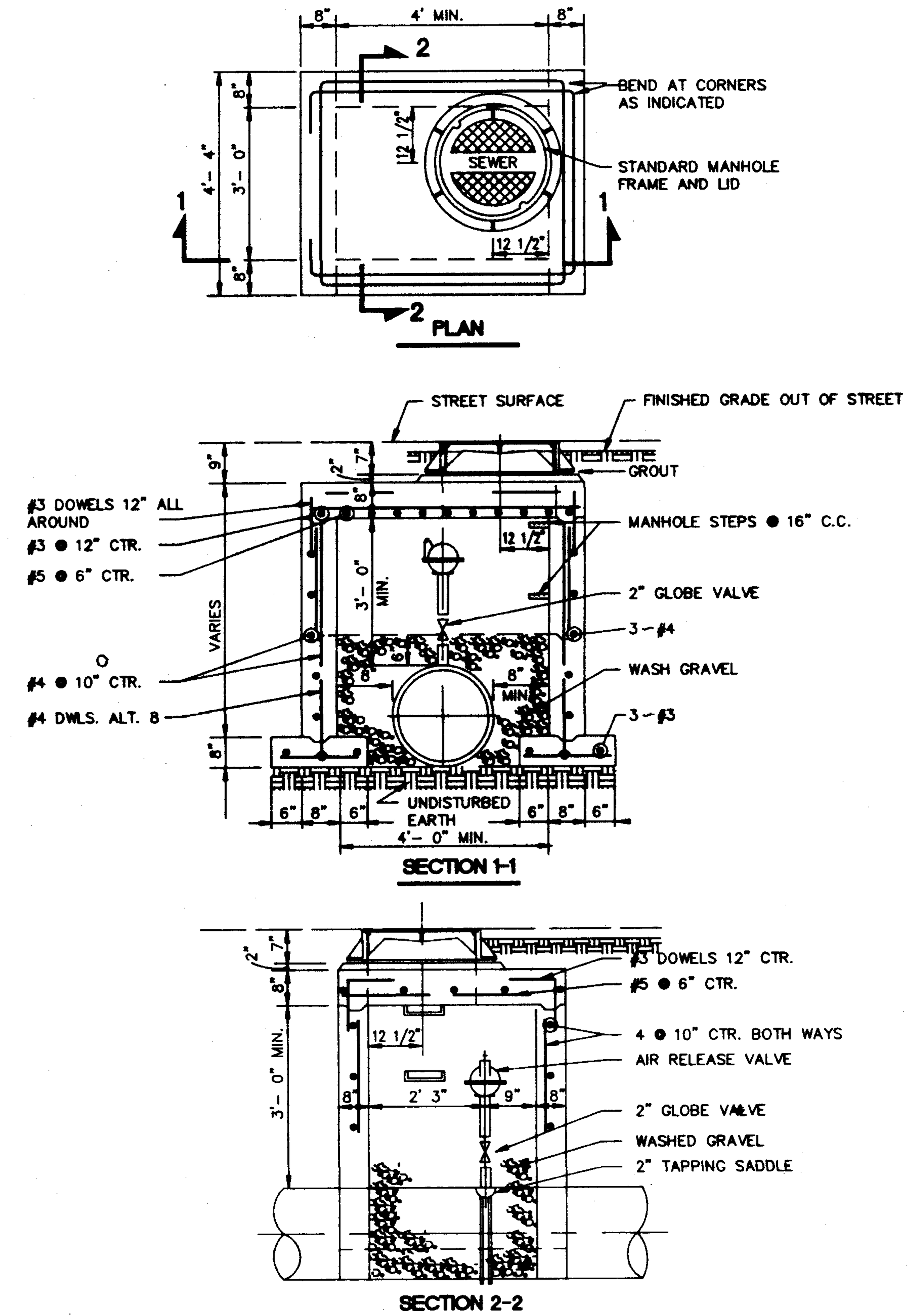
3 OF 5



TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

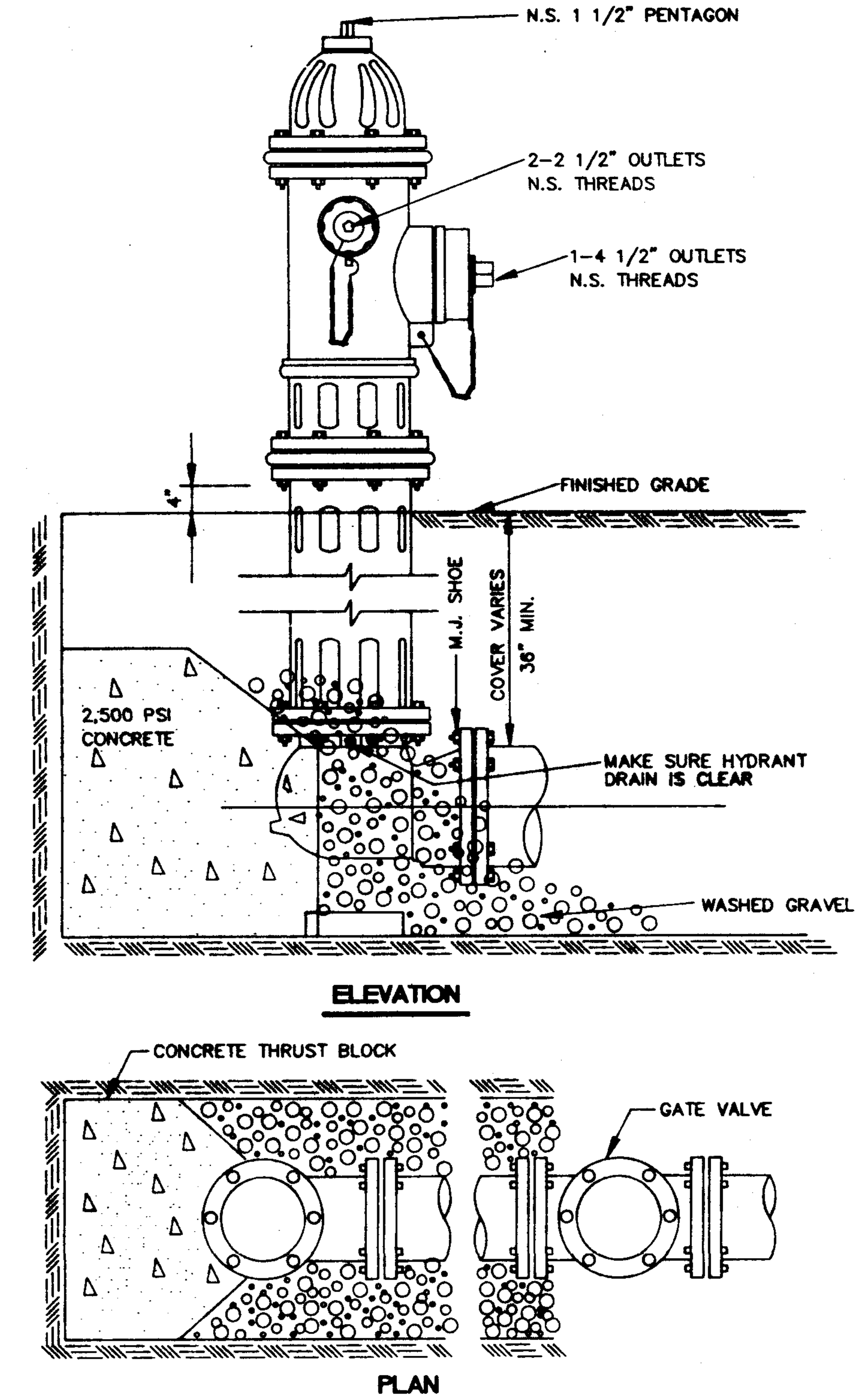
N.T.S.

NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH



TYPICAL AIR OR AIR VACCUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.

N.T.S.

ANCHOR COUPLINGS REQ'D.

BEARING AREA IN SQ. FT.

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	2.5	3.0	2.0	2.0	2.0
8	4.0	6.0	3.0	2.0	2.0
10	6.0	9.0	5.0	2.5	2.0
12	9.0	11.0	6.0	3.5	2.0
14	12.0	18.0	9.0	5.0	2.5
16	16.0	22.5	12.0	6.0	3.0
18	20.0	28.0	15.0	8.0	4.0
20	24.5	34.0	19.0	10.0	5.0
24	35.0	49.0	27.0	14.0	7.0
30	54.0	76.0	41.0	21.0	10.0
36	77.0	108.0	59.0	30.0	15.0
42	104.0	146.0	79.0	40.0	20.0

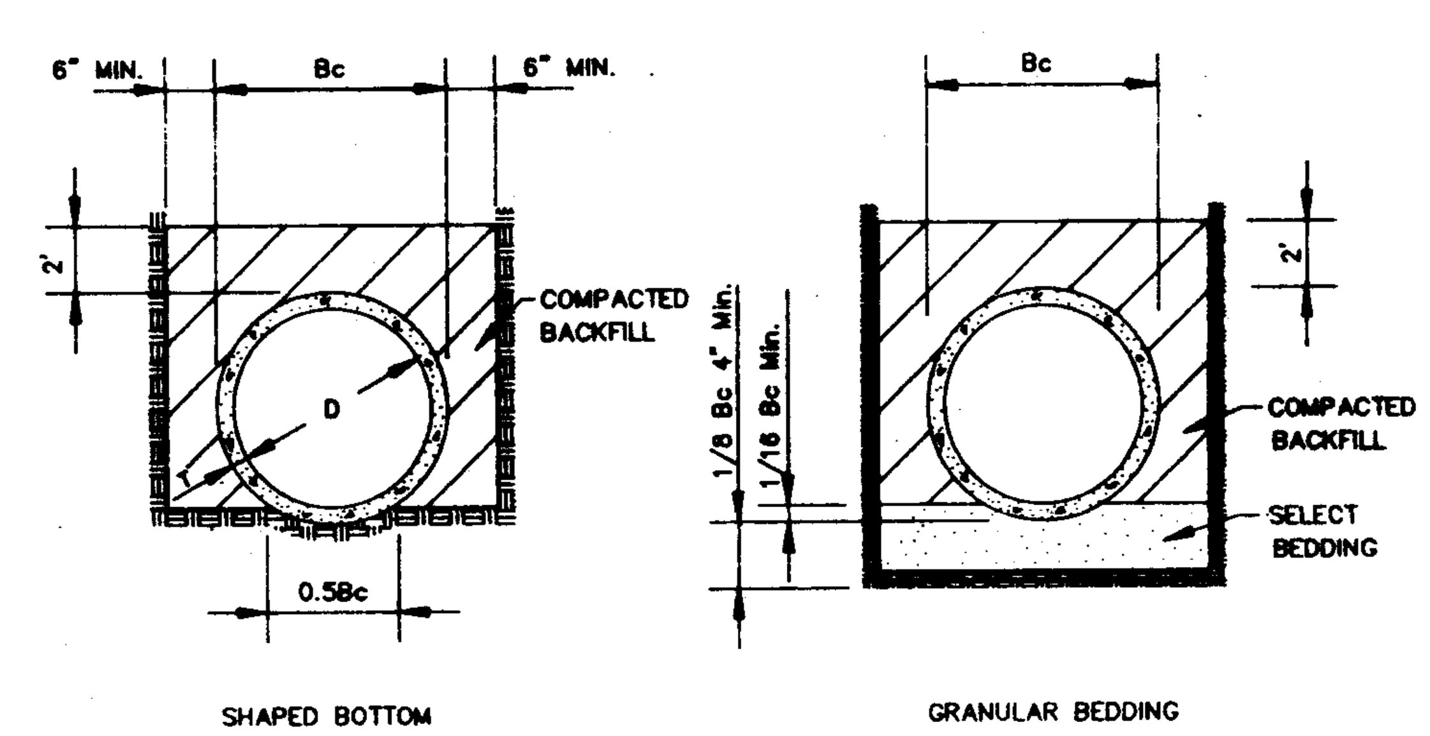
NOTE:
ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100.

FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

VERTICAL BENDS

NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	—	—	26.0(1.0)	14.0(.5)	7.0(.3)
8	—	—	45.0(1.7)	25.0(.9)	13.0(.5)
10	—	—	68.0(2.5)	37.0(1.4)	19.0(.7)
12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	—	—	370(13.7)	200(7.4)	102(3.8)
30	—	—	568(21.1)	308(11.4)	156(5.8)
36	—	—	814(30.1)	440(16.3)	225(8.3)
42	—	—	1100(40.7)	595(22.0)	303(11.2)
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)					

NOTE:
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5 . FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



CLASS C

TYPICAL TRENCH DETAILS

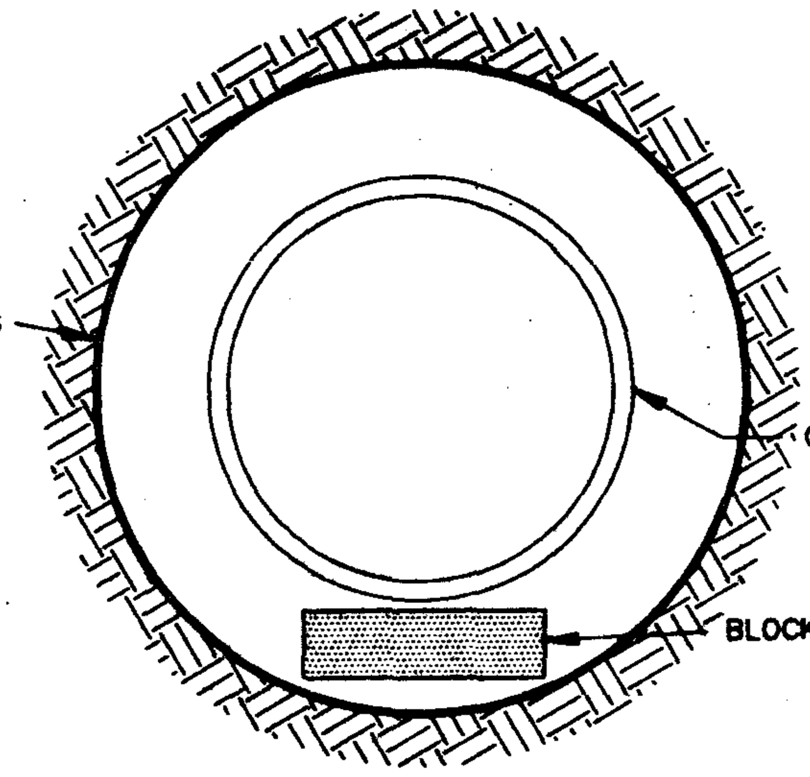
N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

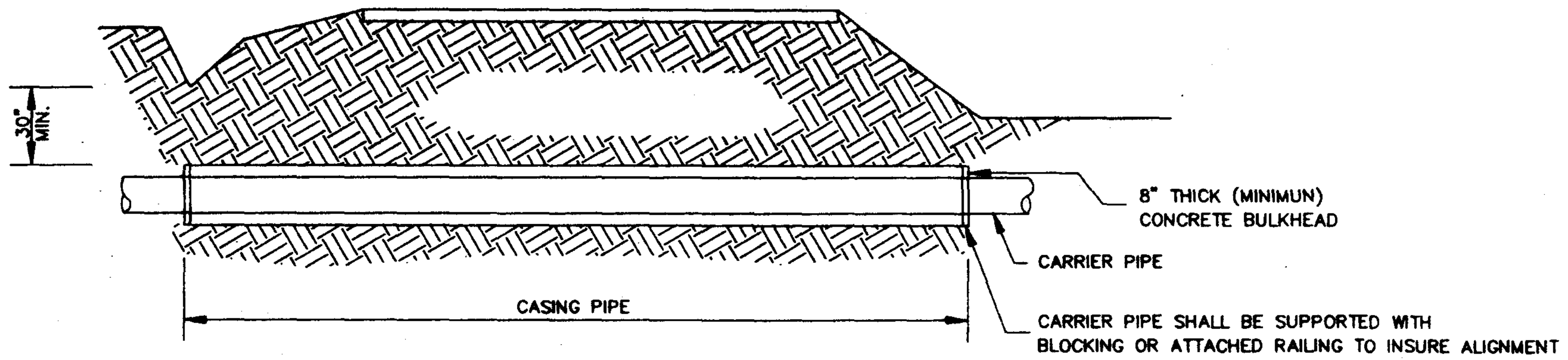
WEST WATER LINES

DSGN:	SV	THE CITY OF RIDGELAND	DRAWING NO
DRWN:	BRM		4 of 5
CHKD:	SV		
SCALE:	N.T.S.		



BORE SECTION

N.T.S.

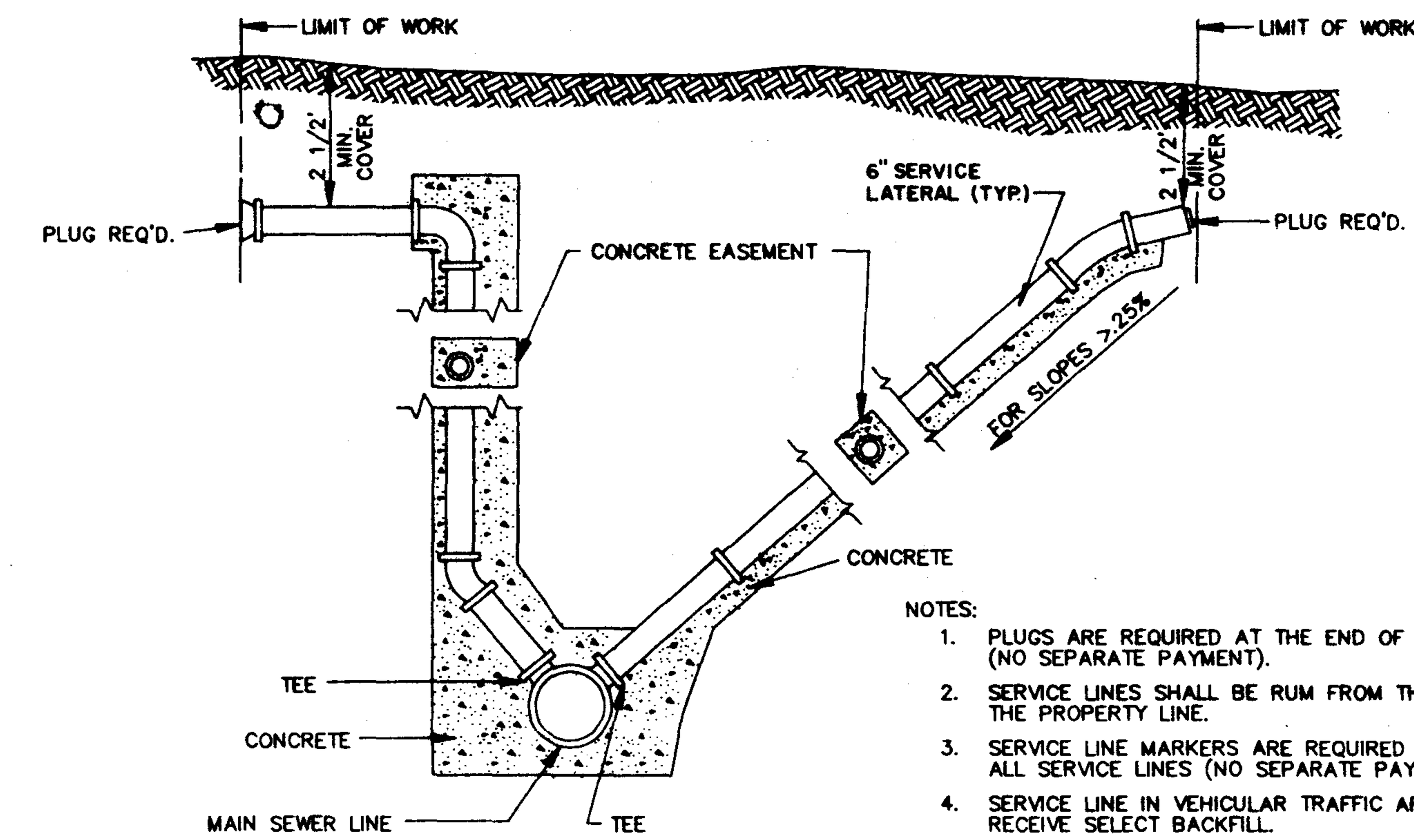


TYPICAL BORE SECTION

N.T.S.

TABLE I GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Δ ANGLE	BASE DIAMETER **	"R" *
8" THRU 12"	0° TO 90°	4'	1'– 6"
15"	0° TO 60°	4'	1'– 10"
15"	60° TO 90°	4'	1'– 10"
18"	0° TO 60°	4'	2'– 3"
18"	60° TO 90°	4'	1'– 10"
21"	0° TO 60°	4'	2'– 7"
21"	60° TO 90°	5'	2'– 4"
24"	0° TO 45°	4'	3'– 0"
24"	45° TO 90°	5'	2'– 3"
30"	0° TO 60°	5'	3'– 9"
30"	60° TO 90°	6'	2'– 8"
36"	0° TO 60°	6'	4'– 6"
36"	60° TO 90°	7'	3'– 11"
42"	0° TO 60°	7'	5'– 3"
42"	60° TO 90°	8'	4'– 7"
48"	0° TO 60°	8'	6'– 0"
48"	60° TO 90°	9'	5'– 3"

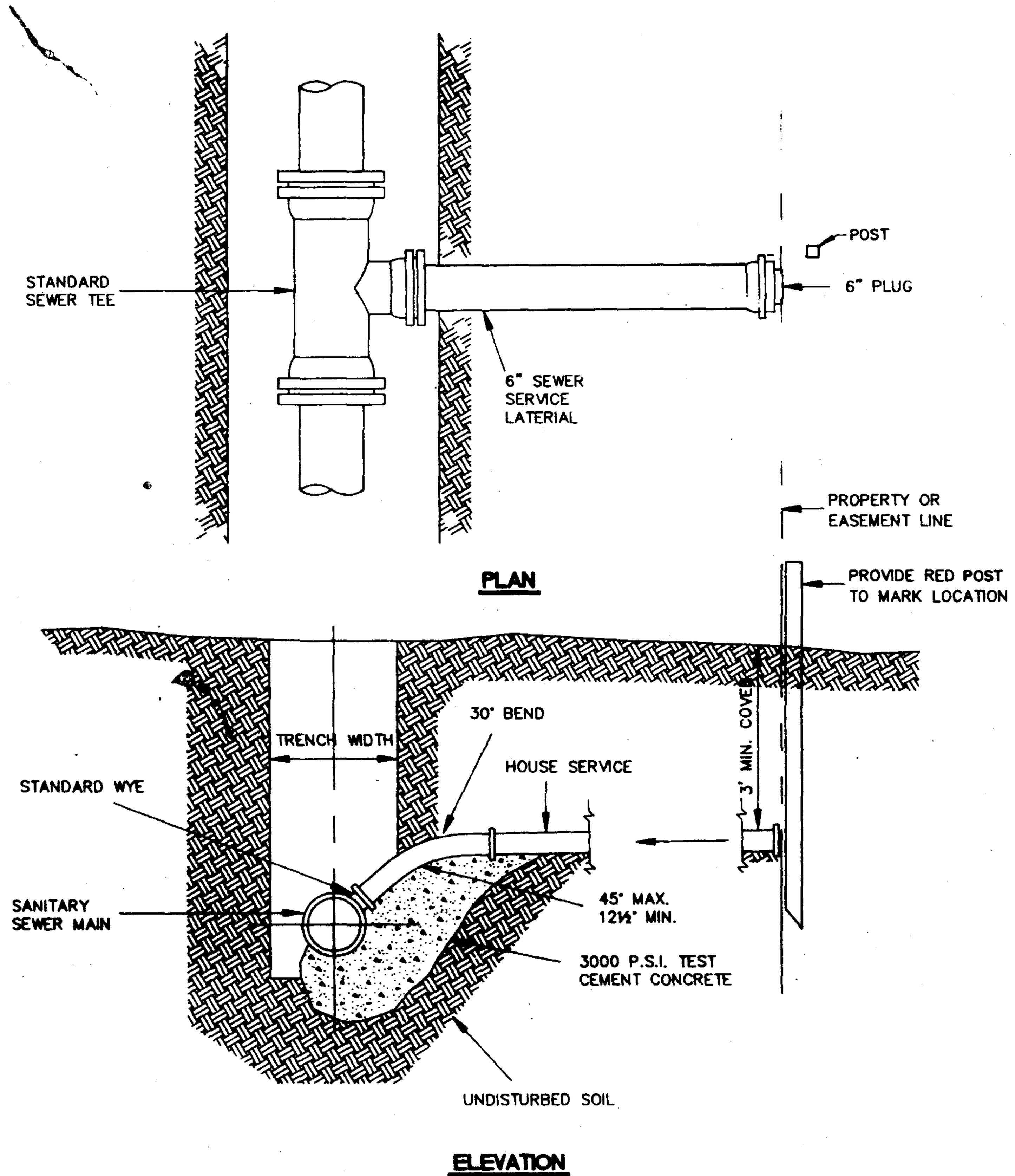
* SEE SECTIONAL PLAN, STANDARD MANHOLE
** PRECAST MANHOLE



NOTES:
1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
2. SERVICE LINES SHALL BE RUM FROM THE SEWER LINES TO THE PROPERTY LINE.
3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL RECEIVE SELECT BACKFILL.
5. WHEN MINIMUM COVER CAN NOT BE OBTAINED DUCTILE IRON PIPE SHALL BE USED.

SERVICE CONNECTION FOR DEEP SEWER

N.T.S.



SEWER SERVICE CONNECTION

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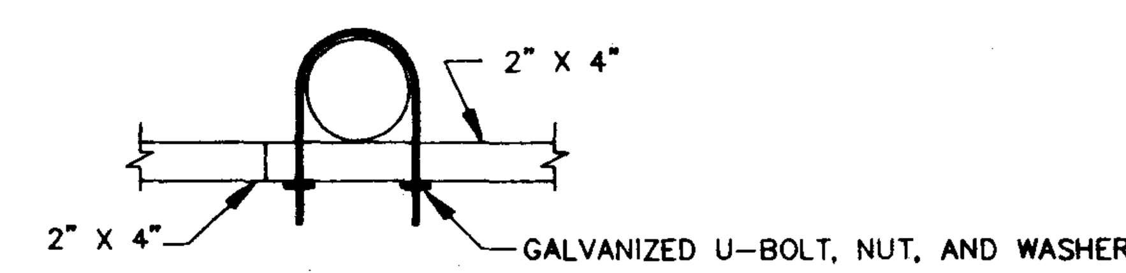
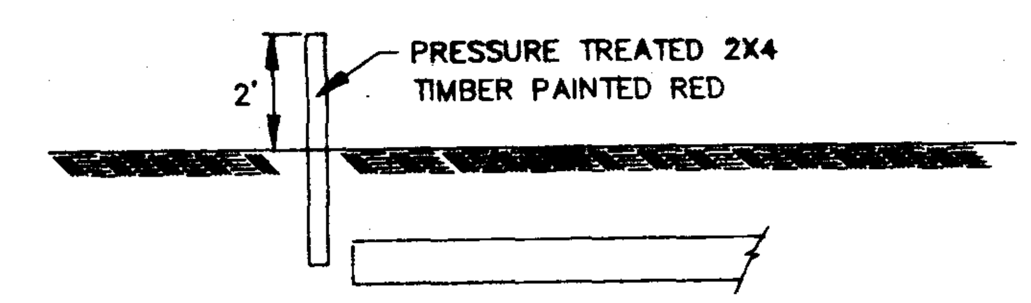


SUPPORT MOUNTING DETAIL

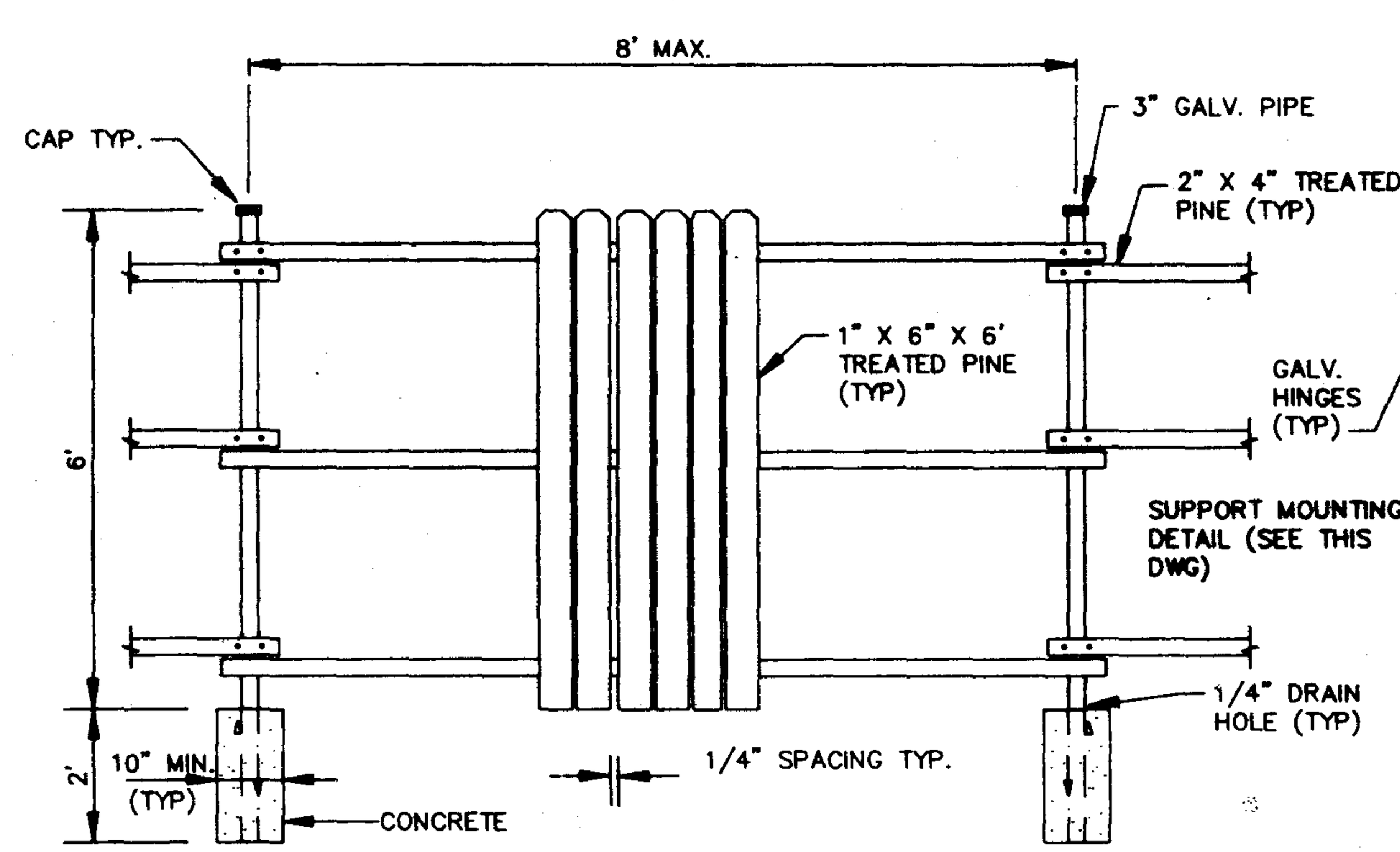
N.T.S.



SERVICE LINE MARKER

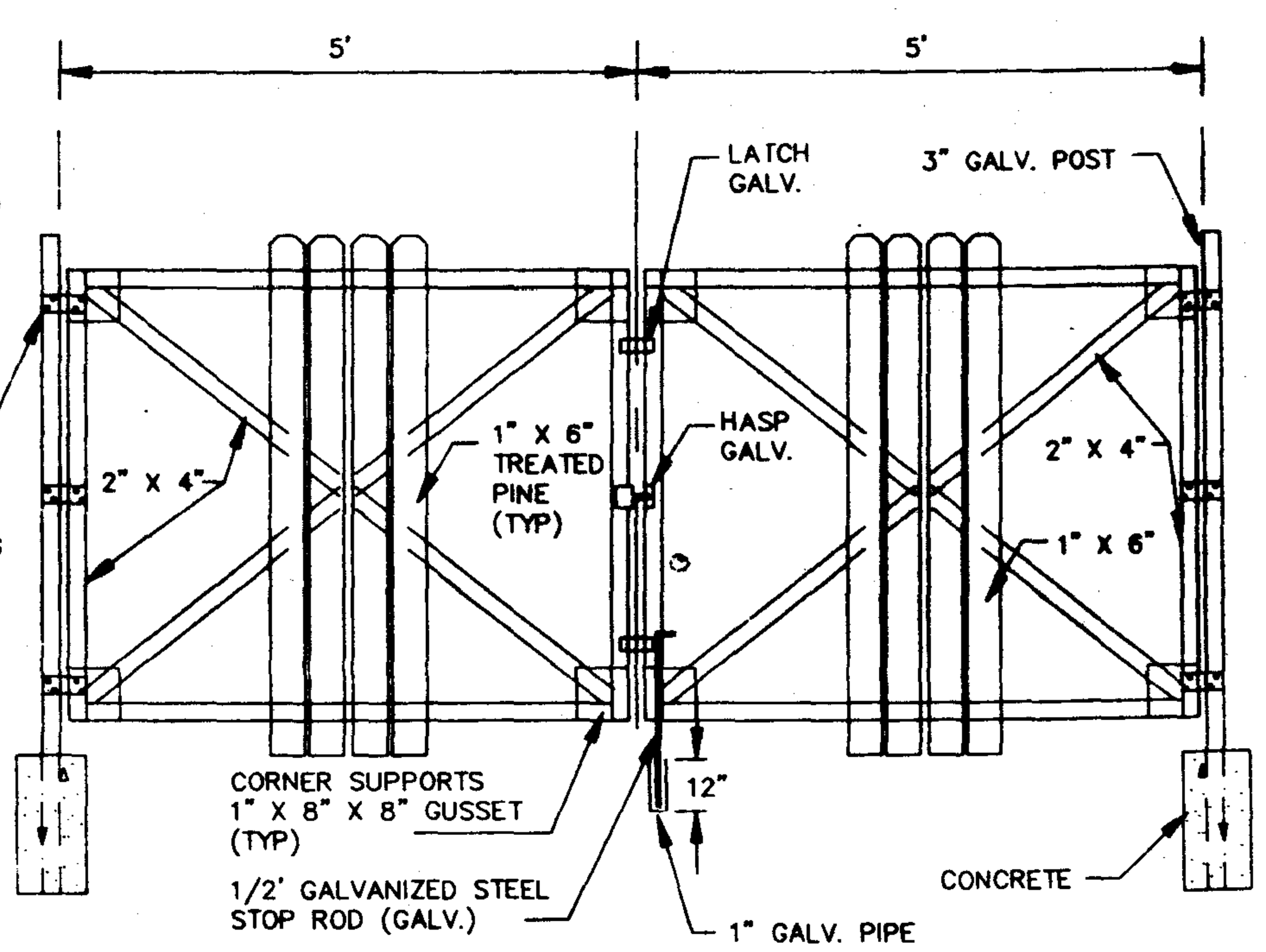
(NO SEPARATE PAYMENT)

N.T.S.



FENCE DETAIL

N.T.S.



GATE DETAIL

N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

WEST WATER LINES

DSGN:	SV	THE CITY OF RIDGELAND	DRAWING NO.
DRWN:	BRM		5 OF 5
CHKD:	SV		
SCALE:	N.T.S.		