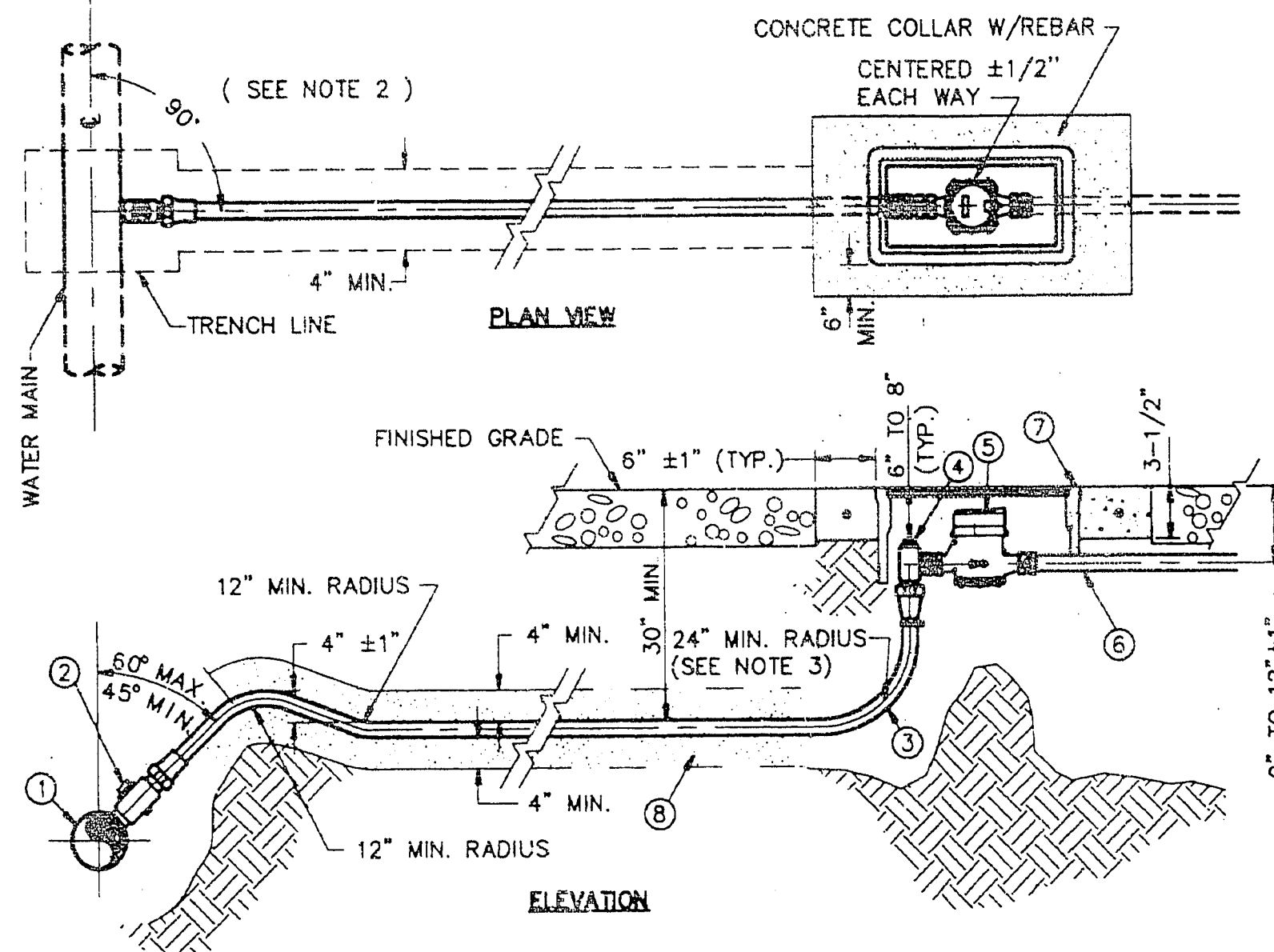
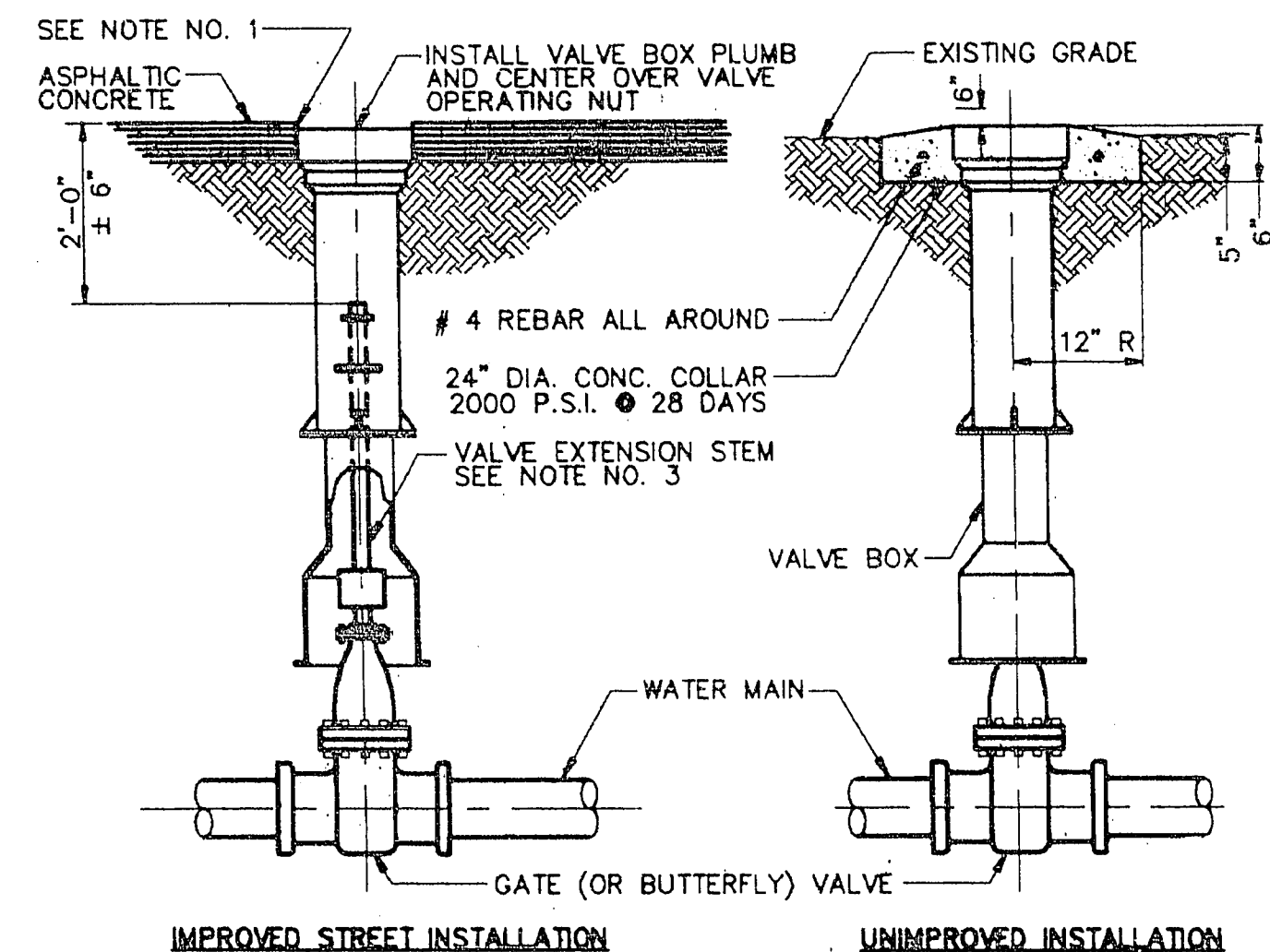




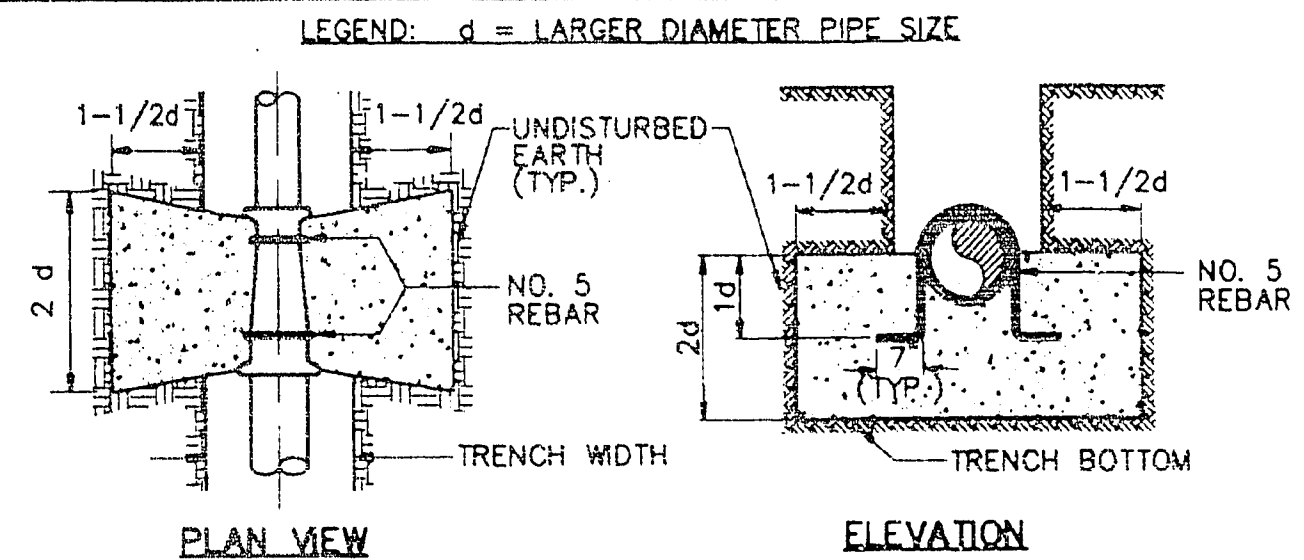
- LEGEND**
1. THREADED COLLAR OR SERVICE SADDLE.
 2. CORPORATION STOP.
 3. 1" SERVICE LATERAL.
 4. UPSTREAM BALL ANGLE METER STOP TO MATCH METER SIZE (1" x 1" MINIMUM) WITH LOCK WING AND WITHOUT LEVER HANDLE.
 5. DISPLACEMENT TYPE WATER METER, AGENCY APPROVED AND SUPPLIED, CONTRACTOR INSTALLED.
 6. TAIL PIECE.
 7. METER BOX (1" TYPICAL, MINIMUM).
 8. SAND BACKFILL FULL WIDTH OF TRENCH.
- NOTES:**
1. ONE COUPLING IS ALLOWED BETWEEN THE CORPORATION STOP AND THE ANGLE METER STOP. IF THE TOTAL LATERAL LENGTH IS GREATER THAN 40 FEET.
 2. HORIZONTAL BENDING RADIUS ALLOWED FOR 1" TUBING IS 12" MIN. AND 24" MIN. FOR 1 1/2" AND 2" TUBING. MAXIMUM DEFLECTION ANGLE ALLOWED IS 90°.
 3. IF A 24" MIN. RADIUS CAN NOT BE MAINTAINED AN APPROPRIATE SIZE 90° COMPRESSION OR FLARED CONNECTION SHOULD BE USED.
 4. USE OF 5/8 METERS NOT APPROVED BY ALL AGENCIES.
 5. FLUSH LATERAL PRIOR TO SETTING METER.

1" SERVICE WITH METER
NOT TO SCALE.

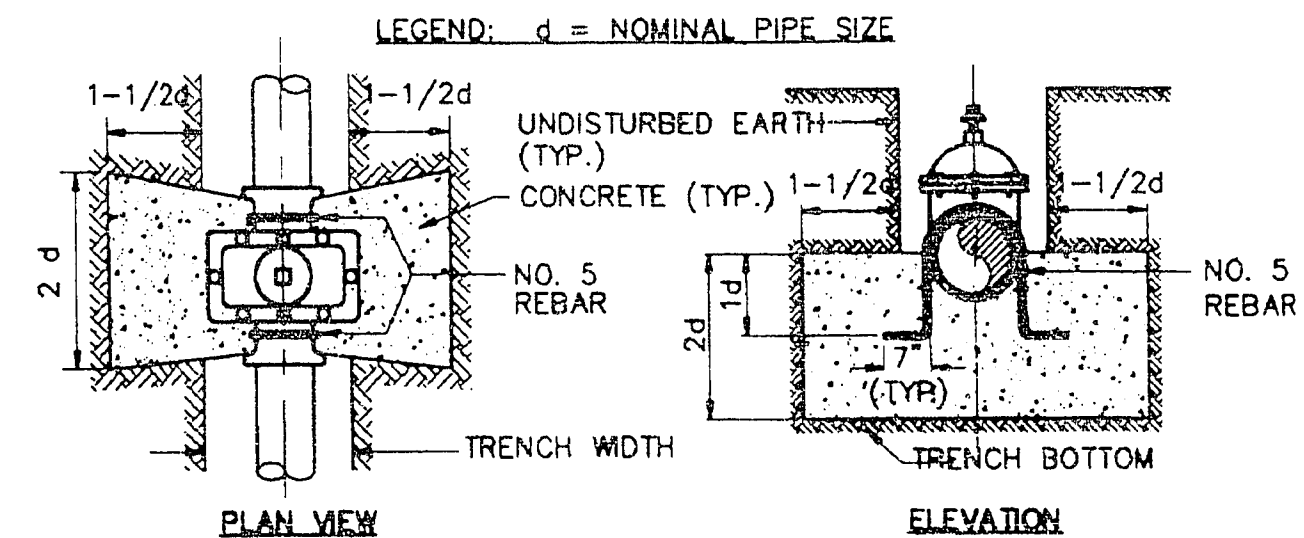


- NOTES:**
1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
 2. MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE VALVE BOX INSTALLATION LOCATION.
 3. A VALVE EXTENSION STEM SHALL BE PROVIDED WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE (5) FEET.

VALVE BOX INSTALLATION AND ADJUSTMENT
NOT TO SCALE.



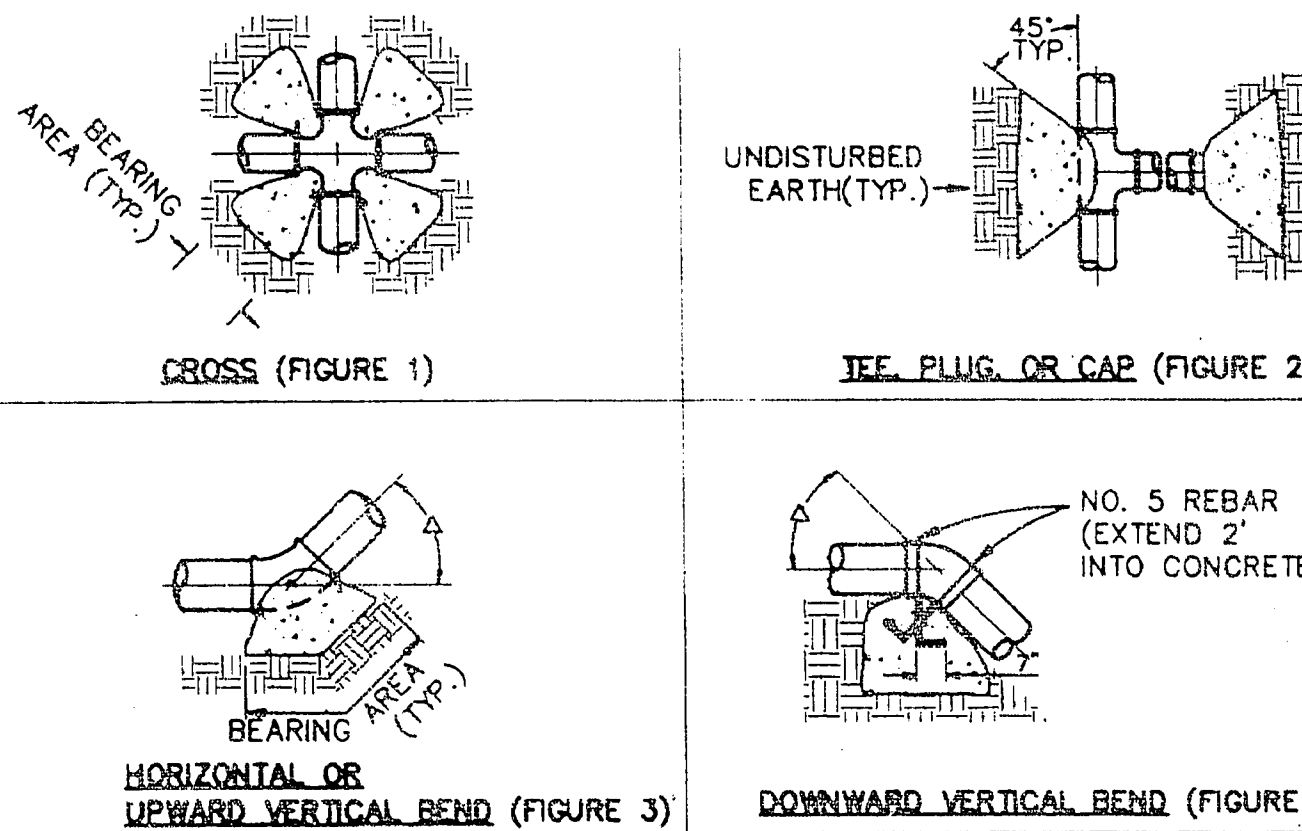
REDUCERS



GATE VALVES

- NOTES:**
1. ALL CONCRETE SHALL BE 3000 P.S.I. MINIMUM 28 DAYS STRENGTH.
 2. ALL VALVES AND EXPOSED REBAR TO BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS.

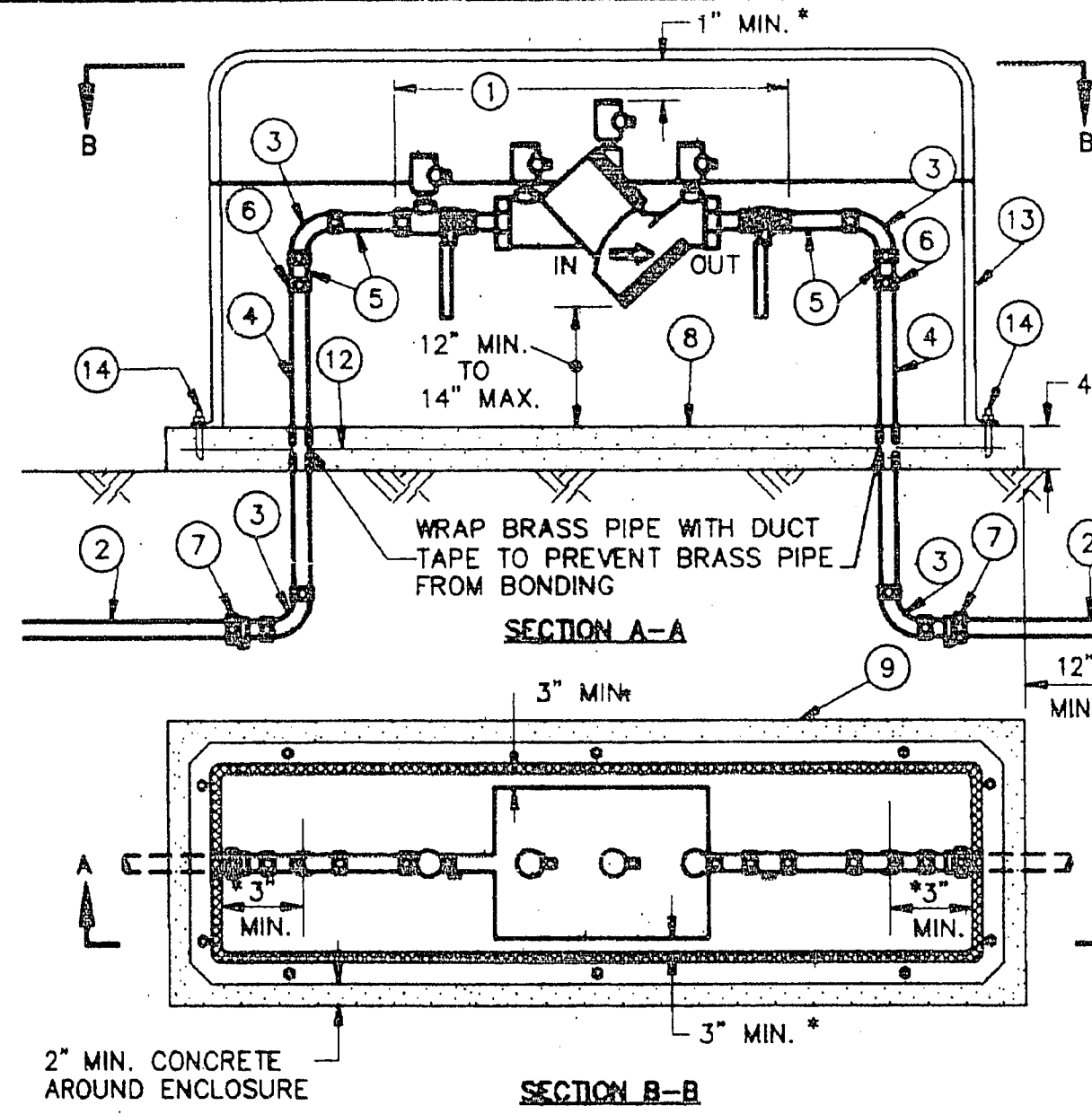
ANCHOR BLOCK
NOT TO SCALE.



GENERAL NOTES:
COAT AND WRAP ALL METAL SURFACE IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 2000 P.S.I. MINIMUM, 28 - DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED IN UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN, BY A NRP, FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

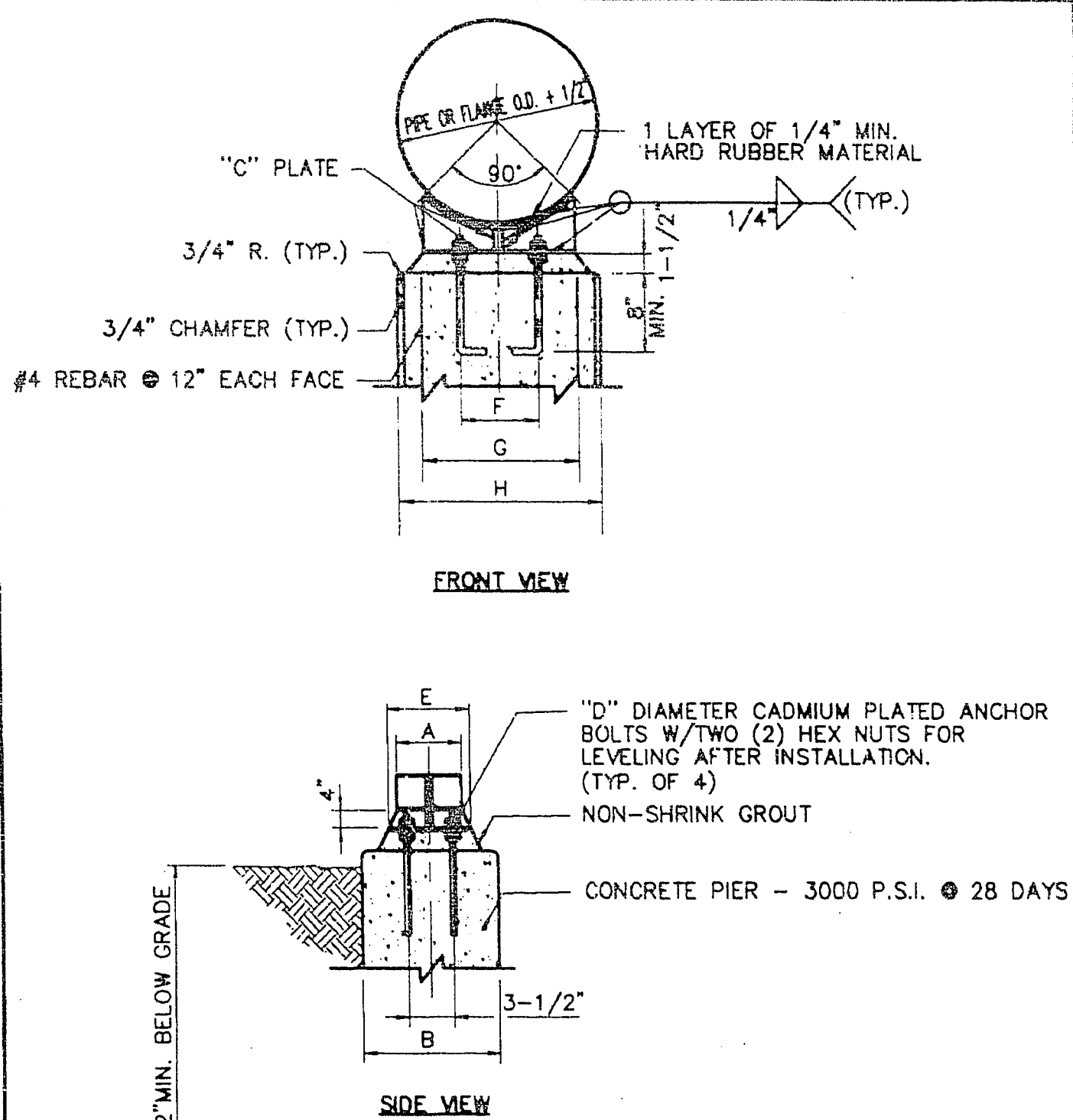
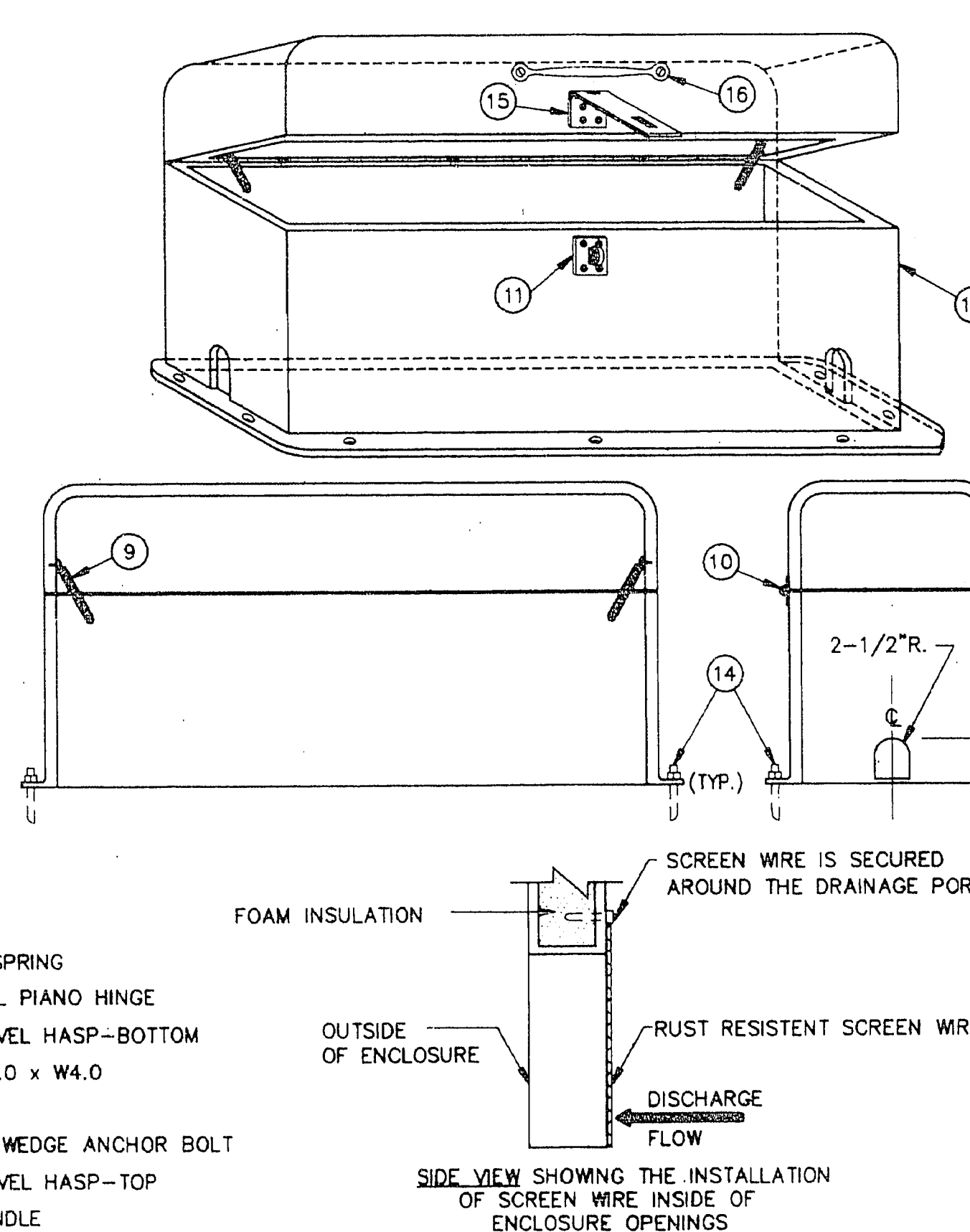
PIPE I.D.	BEARING AREA IN SQUARE FEET						CONC./CU.YDS.		
	FIGURE 1	FIGURE 2	FIGURE 3	FIGURE 4	FIGURE 5	FIGURE 6	FIGURE 1	FIGURE 2	FIGURE 3
4"	2	2	2	1	1	1	1.0	0.5	0.5
6"	2	3	4	2	1	1	1.5	1.0	0.5
8"	3	5	7	4	2	1	2.5	1.5	1.0
10"	4	8	10	6	3	1	4.0	2.5	1.5
12"	5	10	14	8	4	2	5.0	3.0	1.5
16"	10	20	24	12	7	4	8.5	4.5	2.5
18"	12	24	30	16	10	5	11.0	6.0	3.0
20"	14	28	40	20	12	6	14.0	8.0	4.0

THRUST BLOCK
NOT TO SCALE.



- LEGEND**
1. APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY
 2. COPPER TUBING - TYPE "K"
 3. BRASS 90° ELBOW - IRON PIPE THREAD
 4. BRASS PIPE - STANDARD - T.B.E.
 5. BRASS CLOSE NIPPLE
 6. BRASS UNION - IRON PIPE THREAD
 7. METER COUPLING
 8. CONCRETE SLAB - 3000 P.S.I.
 9. STAINLESS STEEL HATCH SPRING
 10. POLISHED STAINLESS STEEL PIANO HINGE
 11. CHROME PLATED ZINC SWIVEL HASP-BOTTOM
 12. WELDED WIRE FABRIC - W4.0 x W4.0
 13. FIBERGLASS ENCLOSURE
 14. 3/8\"-16NC. x 2-3/4\" L.G. WEDGE ANCHOR BOLT
 15. CHROME PLATED ZINC SWIVEL HASP-TOP
 16. CHROME PLATED ZINC HANDLE

DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE.

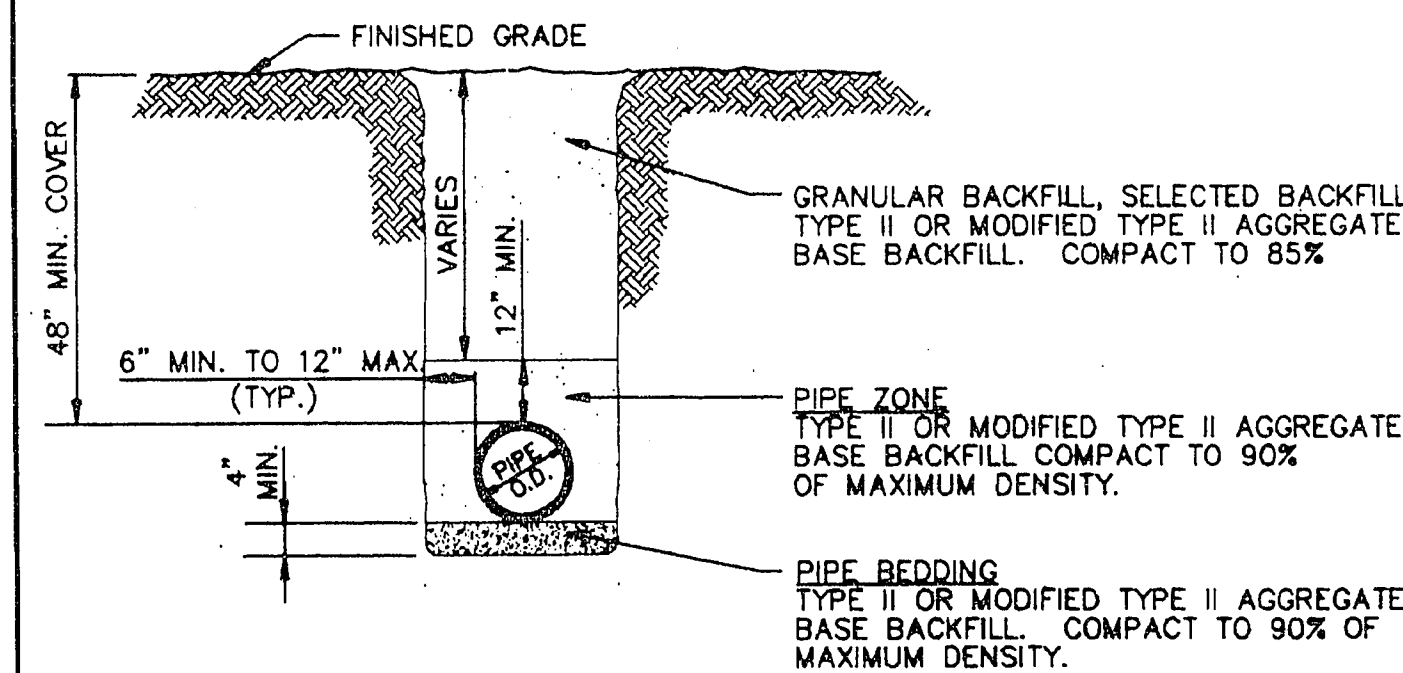


- NOTES:**
1. GALVANIZED ASSEMBLY AFTER FABRICATION
 2. PIPE SUPPORTS TO BE LOCATED IN PIPING PLAN
 3. FOR DIMENSIONS SEE TABLE BELOW

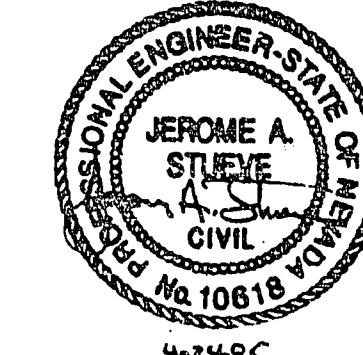
DIMENSIONS IN INCHES

NOMINAL PIPE SIZE	SUPPORTING					PIPE					FLANGE				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
6"	4"	12"	3/8"	5/8"	6"	4"	6"	12"	6"	9"	15"	6"	9"	15"	15"
8"	4"	12"	3/8"	5/8"	6"	5"	8"	14"	6"	11"	17"	6"	11"	17"	17"
10"	4"	12"	3/8"	5/8"	6"	6"	9"	15"	7"	13"	19"	7"	13"	19"	19"
12"	4"	12"	3/8"	5/8"	6"	7"	11"	17"	9"	15"	21"	9"	15"	21"	21"
14"	4"	12"	3/8"	5/8"	6"	8"	12"	18"	9"	16"	22"	9"	16"	22"	22"
16"	4"	12"	3/8"	5/8"	6"	9"	13"	19"	9"	18"	22"	9"	18"	22"	22"

PIPE SUPPORT
NOT TO SCALE.



TRENCH BACKFILL
NOT TO SCALE.



LAS VEGAS VALLEY WATER DISTRICT
1001 SOUTH VALLEY VIEW BOULEVARD
LAS VEGAS, NEVADA 89153

EQUIP WELL NOS. 102 AND 105

STANDARD DETAILS

737
REF. SHEET NO. 111
SHEET 11 OF 31