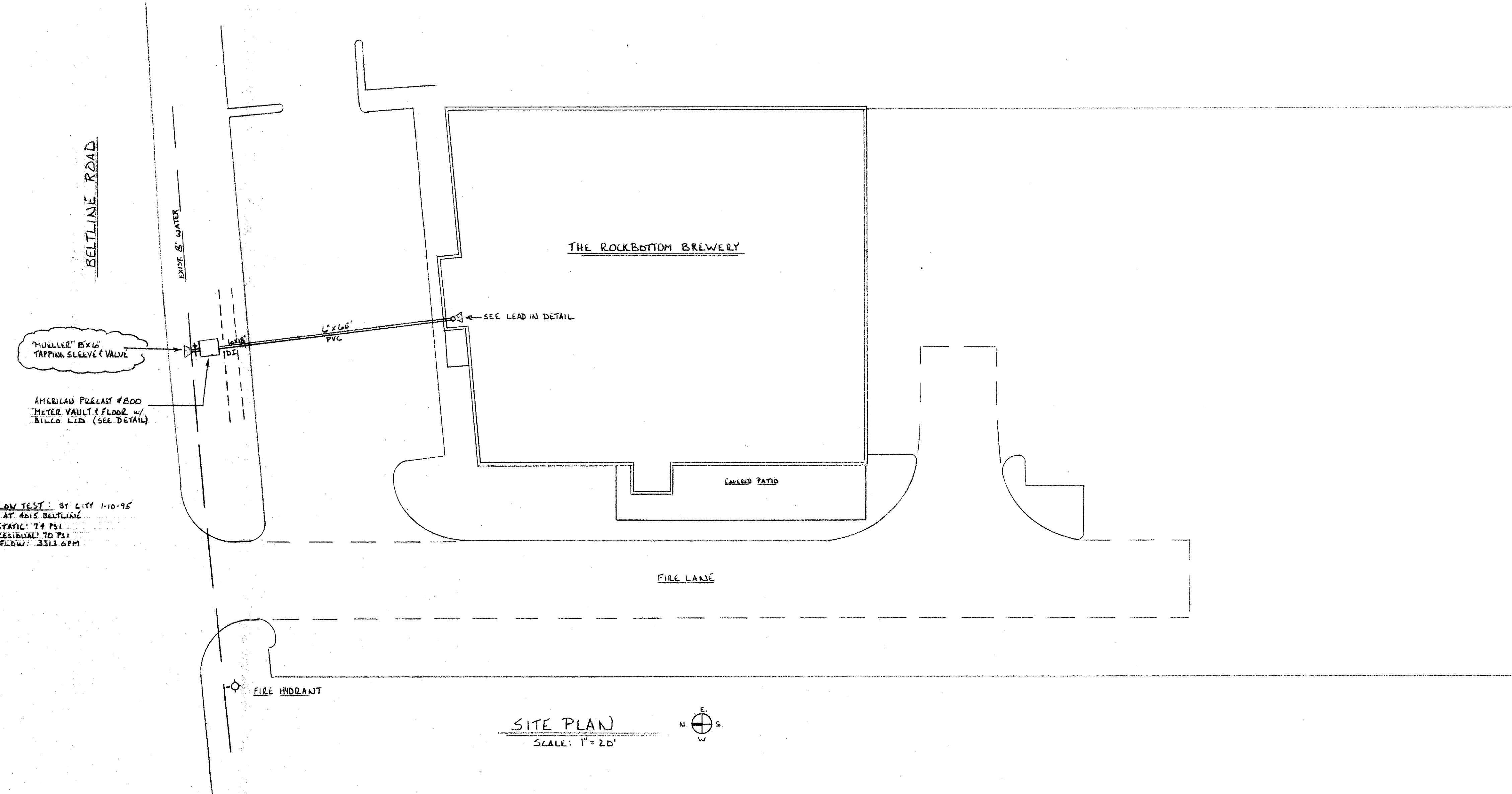
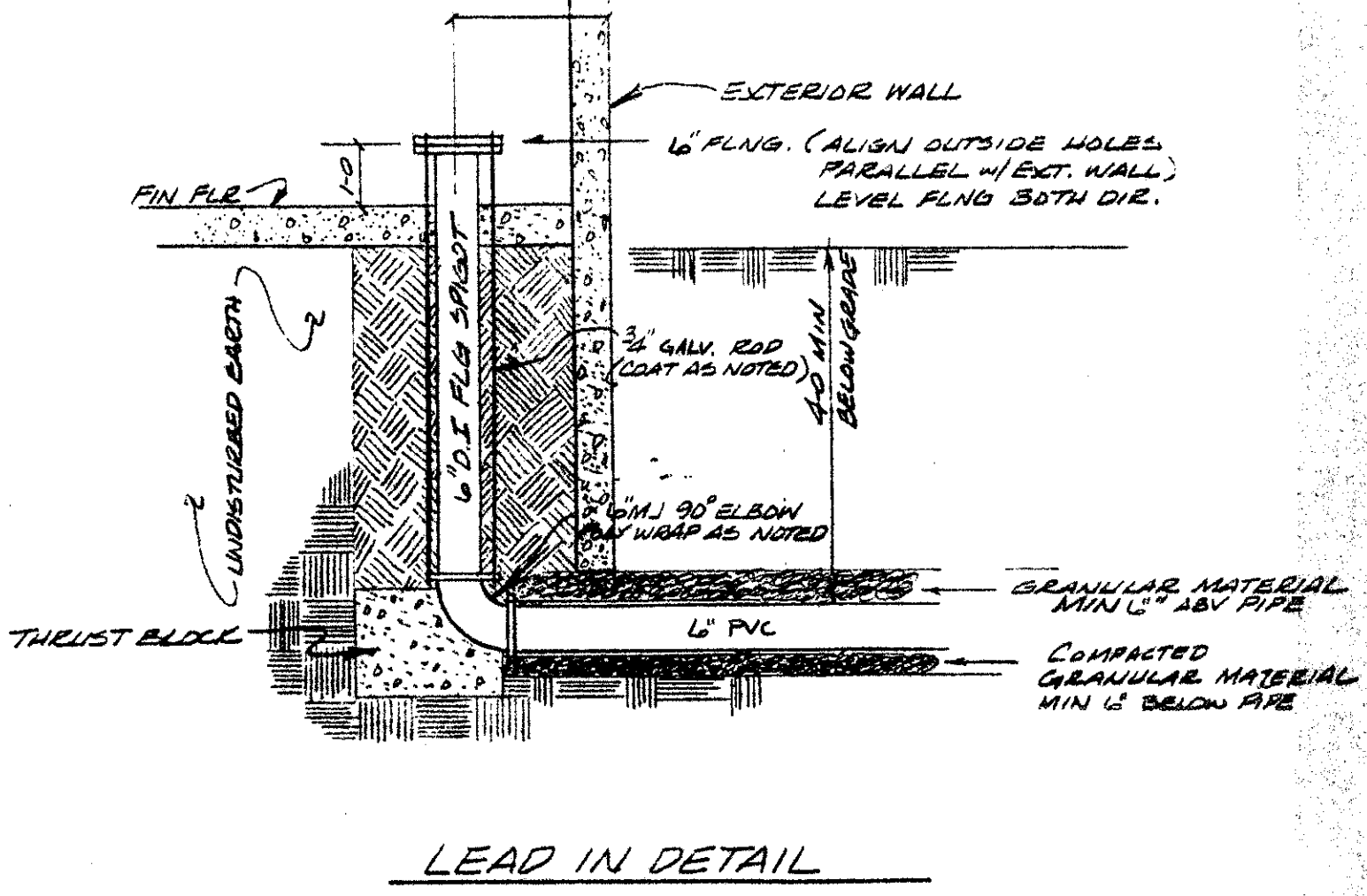
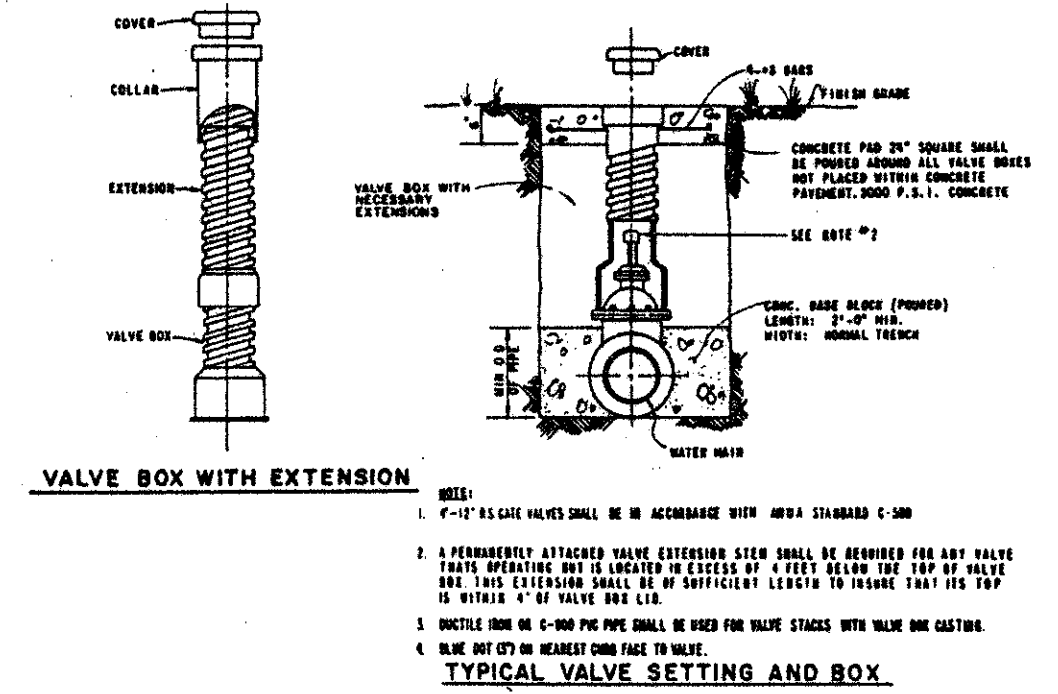
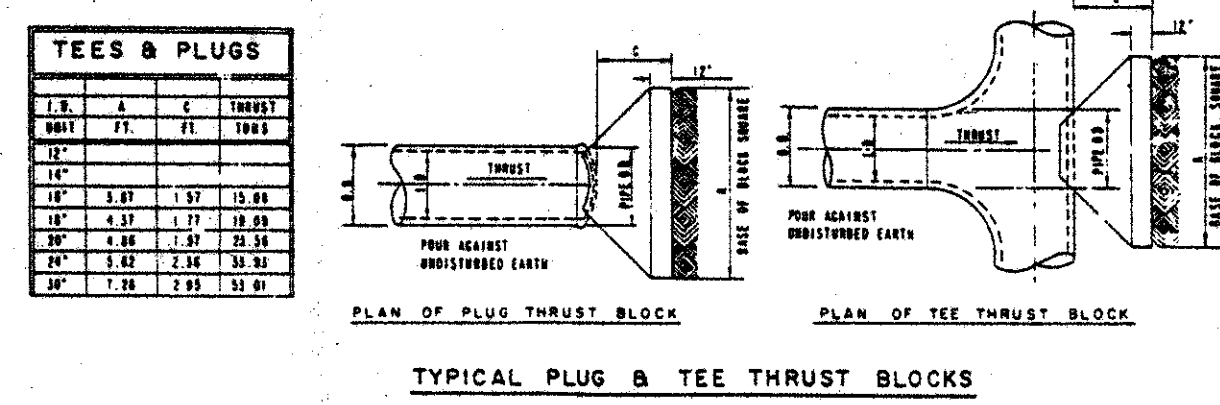


THRUST IN TONS FOR VERTICAL BENDS

SIZE	15'	20'	25'	30'	35'	40'	45'	50'
1/2"	1.10	1.50	1.90	2.30	2.70	3.10	3.50	3.90
3/4"	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
1"	2.00	2.60	3.20	3.80	4.40	5.00	5.60	6.20
1 1/4"	2.60	3.40	4.20	5.00	5.80	6.60	7.40	8.20
1 1/2"	3.20	4.20	5.20	6.20	7.20	8.20	9.20	10.20
2"	4.00	5.20	6.40	7.60	8.80	10.00	11.20	12.40
2 1/2"	4.80	6.20	7.60	9.00	10.40	11.80	13.20	14.60
3"	5.60	7.20	8.80	10.40	12.00	13.60	15.20	16.80
3 1/2"	6.40	8.20	10.00	11.80	13.60	15.40	17.20	19.00
4"	7.20	9.20	11.20	13.20	15.20	17.20	19.20	21.20



- UNDERGROUND NOTES
- All design, materials, fabrication, and installation shall be in accordance with MPA standards 13, 24, as amended by City of Addison.
 - Piping noted "D.I." shall be class 51, ANSI/AWSA C151/A21.51 ductile iron pipe, cement lined.
 - Piping noted "PVC" shall be class 150 DR 18 conforming to AWSA C900 polyvinyl chloride pipe.
 - All underground fittings shall be DU Listed, standard ductile iron, mechanical joint fittings, AWSA C119.
 - All D.I. pipes and fittings shall be cleaned and poly-wrapped and rods, nuts and bolts shall be coated with asphaltic or bituminous corrosion resistant coating.
 - All underground fittings shall be properly restrained using concrete thrust blocks and/or ridding according to sizes and details prescribed by MPA 24.
 - Thrust blocks shall cure for no less than 24 hours before testing.
 - Underground piping shall be hydrostatically tested in accordance with MPA 24 standards. Tests shall be witnessed by the approving authorities.
 - After testing and backfill, the new piping shall be thoroughly flushed through an open pipe until the water is clear and free of debris.

DAMON N. ANDERSON
1/30/95

HANGERS		ESCUTCHEONS				SPRINKLERS				APPROVALS BY:		CONTRACT WITH		DATE: 1-27-95		THE ROCKBOTTOM BREWERY	
1	C-CLAMP, ROD & RING	NO	8								1.	COMPANY:	SCALE: As Noted	4050 BELTLINE ROAD		ADDISON, TEXAS	
2	TOP BEAM CLAMP, ROD & RING	10										CONTACT:	JOB NO. 95808				
3	J-HOOK, EYE SOCKET, ROD & RING	11										ADDRESS:	SHEET NO. OF				
4	WASHER, NUT, ROD & RING	12										CITY:	DESIGNER:				
5	LAG SCREW, EYE ROD & RING	13										PHONE:	PROJECT MGR:				
6	COACH SCREW, ROD & RING	14										SHEET TITLE:	RNC 0060				
7	STUD, EYE ROD & RING	15															
8	STUD, ROD COUPLING, ROD & RING	16															
		TYPE	FINISH	N.P.T.	QUAN.	SYMBOL	DEGREE	FINISH	TYPE SPRINKLER	F.O.	ORIFICE	N.P.T.	QTY.	MK.	DATE	BY	REVISIONS



1171 RUGGLES DRIVE
GRAND PRAIRIE, TX 75050
METRO 214-647-8172
SCR 0172