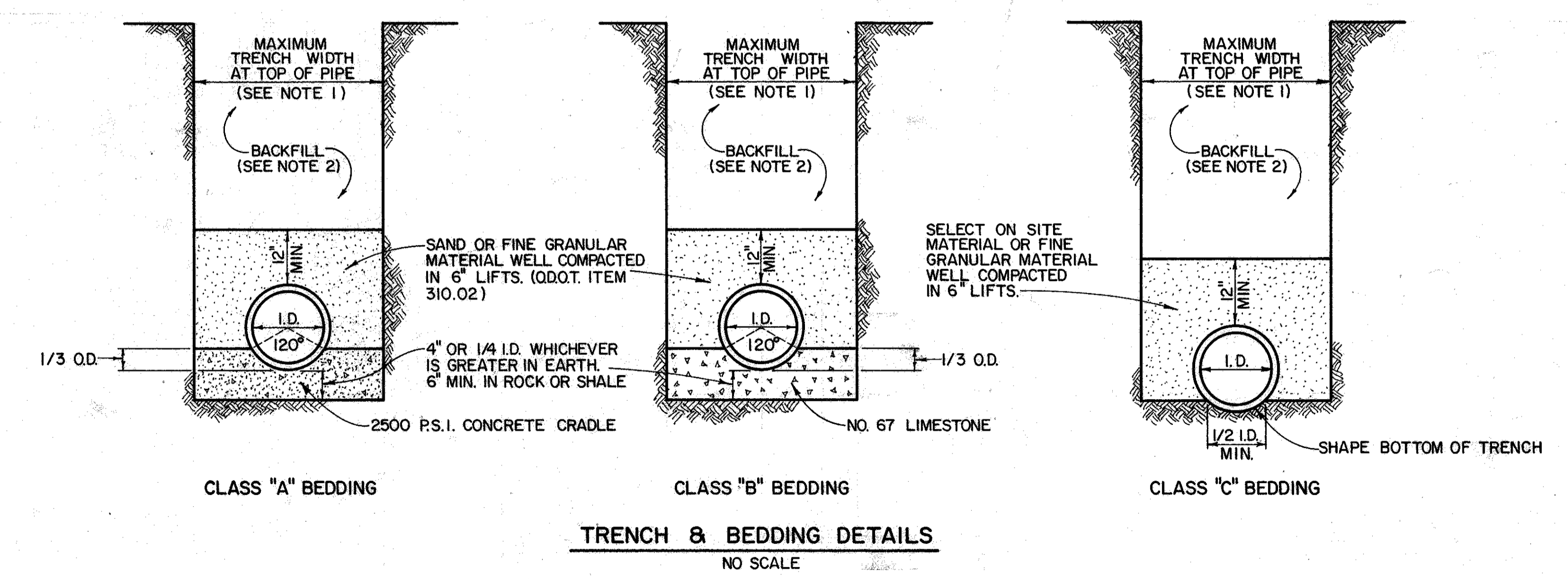


PIPE SIZE IN.	PRESSURE P.S.I.	SOIL BEARING LOAD P.S.F.	DEFLECTION	THRUST LBS.	AREA CONCRETE BLOCKING ON UNDISTURBED SOIL SQ. FT. (MIN.)
			ANGLE DEGREES		
6	150	1,000	TEE / DEAD END	5,998	6.0
			90	5,998	6.0
			45	3,246	3.2
			22 1/2	1,655	2.1
			11 1/4	831	1.0
		2,000	TEE / DEAD END	5,998	3.0
			90	5,998	3.0
			45	3,246	2.1
			22 1/2	1,655	2.1
			11 1/4	831	1.0
		3,000	TEE / DEAD END	5,998	2.1
			90	5,998	2.1
			45	3,246	2.1
			22 1/2	1,655	2.1
			11 1/4	831	1.0
8	150	1,000	TEE / DEAD END	10,663	10.7
			90	10,663	10.7
			45	5,771	5.8
			22 1/2	2,942	2.9
			11 1/4	1,478	1.5
		2,000	TEE / DEAD END	10,663	5.3
			90	10,663	5.3
			45	5,771	2.9
			22 1/2	2,942	2.1
			11 1/4	1,478	1.0
		3,000	TEE / DEAD END	10,663	3.6
			90	10,663	3.6
			45	5,771	2.1
			22 1/2	2,942	2.1
			11 1/4	1,478	1.0
12	150	1,000	TEE / DEAD END	23,992	24.0
			90	23,992	24.0
			45	12,984	13.0
			22 1/2	6,619	6.6
			11 1/4	3,326	3.3
		2,000	TEE / DEAD END	23,992	12.0
			90	23,992	12.0
			45	12,984	6.5
			22 1/2	6,619	3.3
			11 1/4	3,326	1.7
		3,000	TEE / DEAD END	23,992	8.0
			90	23,992	8.0
			45	12,984	4.3
			22 1/2	6,619	2.2
			11 1/4	3,326	1.1

* NOTE: ALL REINFORCING TO BE #5 @ 6" E.W., PLACED AS SHOWN



1. MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D. +24" FOR ALL SIZES UP TO AND INCLUDING 24" I.D. AND O.D. +30" FOR PIPE LARGER THAN 24" I.D.
2. BACKFILL UNDER PAVEMENT AND STRUCTURES SHALL BE GRANULAR MATERIAL CONFORMING TO O.D.O.T. ITEM 310.02 EXCLUSIVE OF CRUSHED SLAG, GRANULATED SLAG OR ANY MIXTURES CONTAINING SLAG COMPACTED IN 6" LIFTS WITH VIBRATORY PLATE COMPACTOR TO TOP OF TRENCH. THE GRANULAR BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF 3 FEET BEYOND EACH EDGE OF PAVEMENT OR STRUCTURE IN AREAS OUTSIDE OF PAVEMENT, SELECT ON-SITE MATERIAL MAY BE USED IN LIFTS NOT TO EXCEED 6".
3. ALL BEDDING SHALL BE CLASS "B" UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER.