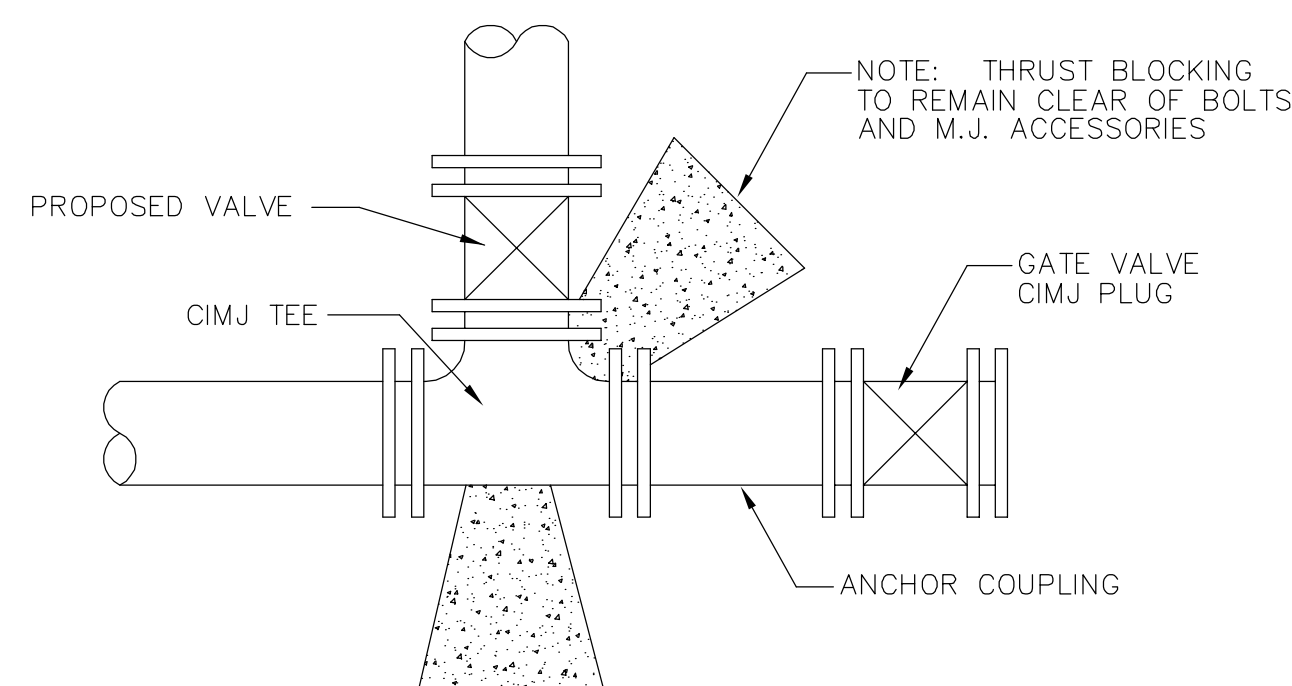


**REINFORCED CONCRETE ENCASEMENT  
OF SANITARY SEWER**

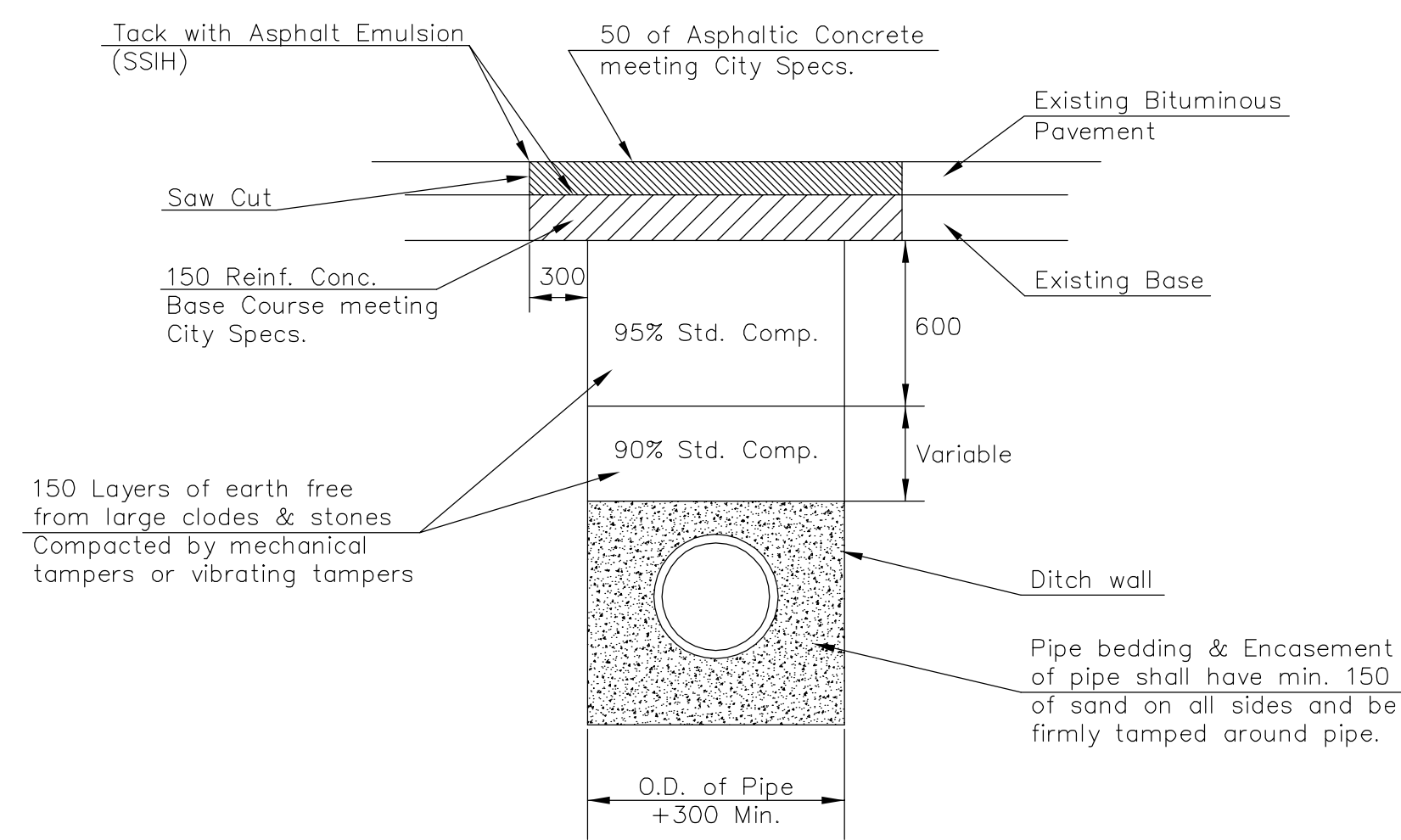
PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN <sup>2</sup> P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
150	2.8	3.95	2.15	1.09	.55	2.8
200	4.9	6.95	3.75	1.90	.96	4.9
300	11.4	16.1	8.75	4.45	2.25	11.4
400	20.15	28.5	15.4	7.85	3.95	20.15
500	31.15	44.0	23.85	12.15	6.10	31.15
600	44.55	63.0	34.1	17.4	8.75	44.55

**TYPICAL THRUST BLOCKS**



**KEY BLOCK DETAIL**

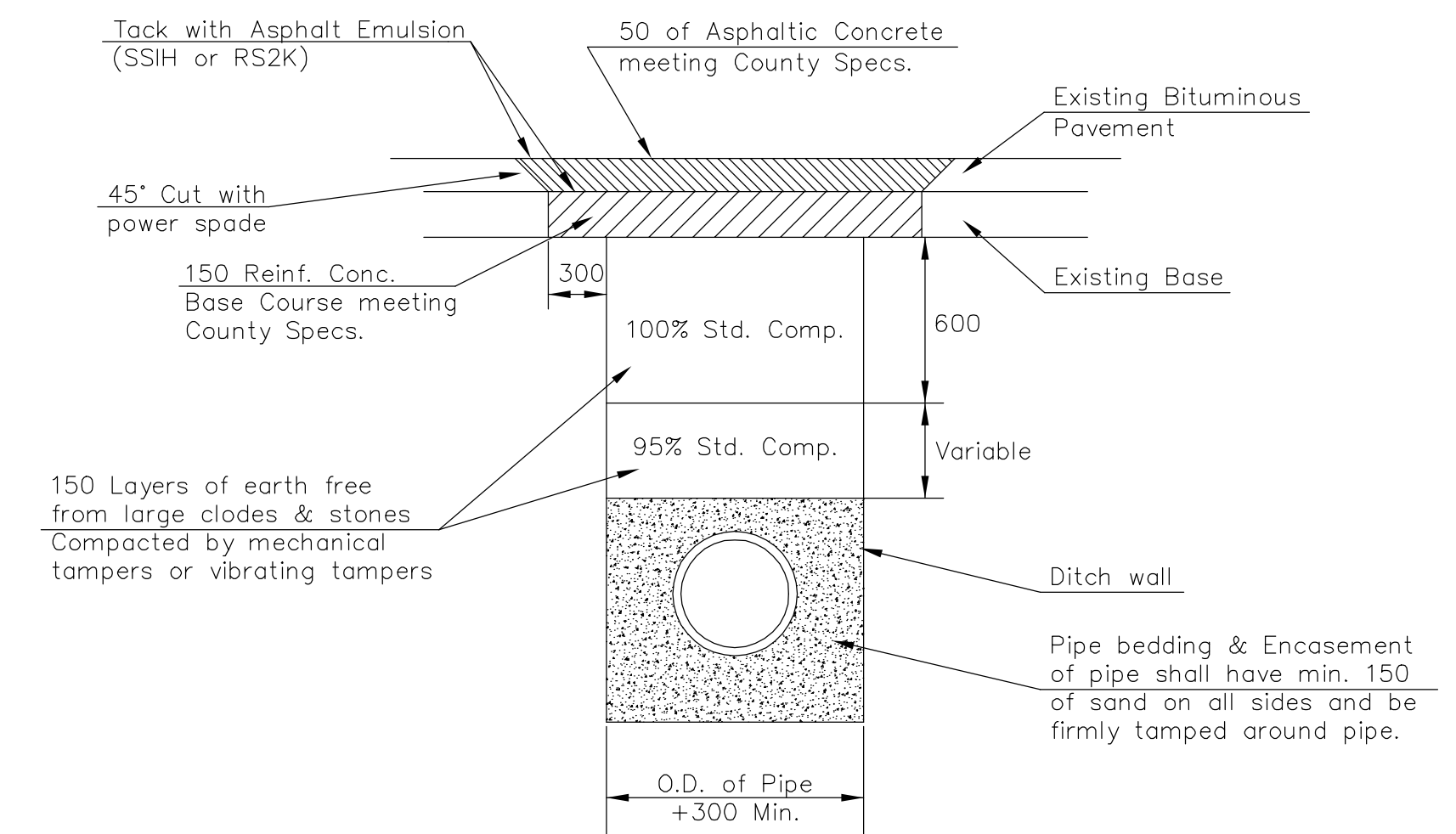
**SETTLEMENT & COMPACTION ON CITY AND COUNTY  
ROAD RIGHT-OF-WAY EXCEPT UNDER PAVEMENT**



Standard Density Test, as described in the latest addition of ASTM D698, shall be performed to verify the above requirements to the Satisfaction of the Sedgwick County Director of Public Works. All testing cost shall be included in the unit price bid for the pipe in place.

When laying under paving, parallel with the centerline of the street, a minimum of one (1) Standard Density Test shall be performed on each 300 lineal feet of ditch.

**PAVEMENT REPLACEMENT & DITCH COMPACTION UNDER  
EXISTING AND PROPOSED CITY ROADS**



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**PAVEMENT REPLACEMENT & DITCH COMPACTION UNDER  
EXISTING AND PROPOSED COUNTY ROADS**

<p>THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4501 (316) 268-4114 FAX</p>	<b>VARIOUS WATER DETAILS</b>	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 54-87 K-8258-07	INDEX CODE 7
	DATE 2004	SHEET 55 OF 101

REVISED APR 97