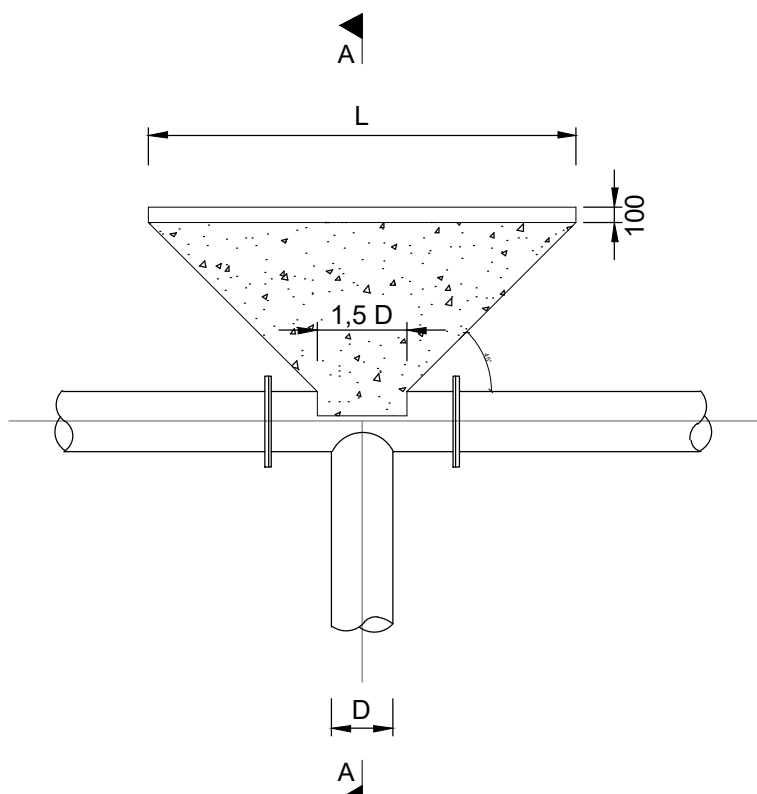


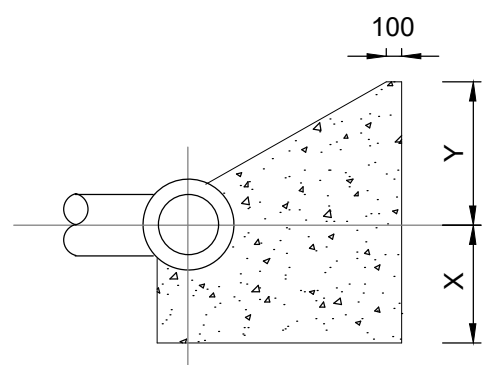
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GENERAL NOTE

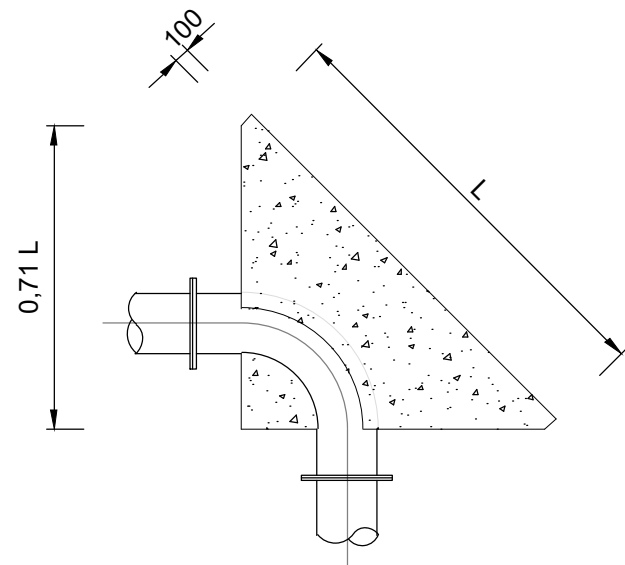
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2. ALL PLUMBING QUERIES ARE TO BE REFERRED TO THE RELEVANT SPECIALIST CONSULTANTS DRAWINGS, SPECIFICATIONS AND DETAILS.
3. ALL CONCRETE, COLUMNS AND STRUCTURAL QUERIES ARE TO BE REFERRED TO THE RELEVANT STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS.
4. ALL EXTERNAL / INTERNAL WALLS REQUIRING BRACING / STIFFENING ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S DRAWINGS, SPECIFICATIONS AND DETAILS.
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7. ANY DISCREPANCY IN THE DRAWINGS, DIMENSIONS & SPECIFICATIONS TO BE BROUGHT TO THE ATTENTION OF THE CONSULTANT AND ARCHITECT PRIOR TO ANY WORK BEING PUT IN HAND.
8. ONLY FIGURED DIMENSIONS TO BE FOLLOWED - SCALED DIMENSIONS OF DRAWINGS WILL NOT BE PERMITTED.



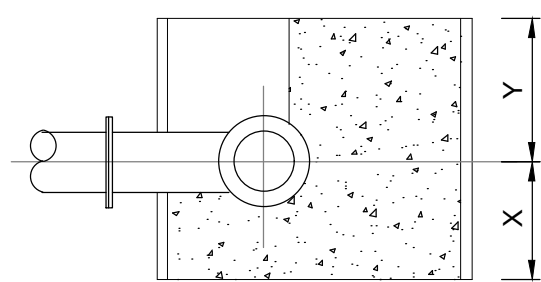
PLAN VIEW
SCALE 1:20



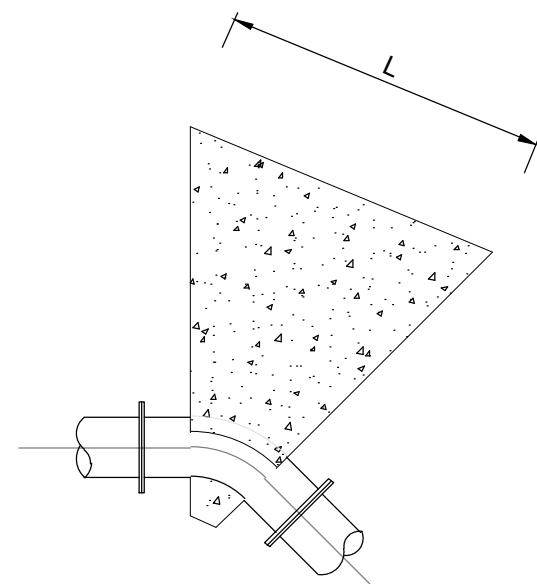
SECTION A - A
90° TEE



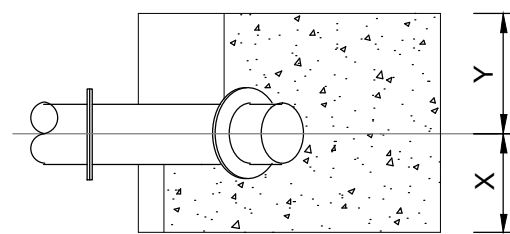
PLAN VIEW
SCALE 1:20



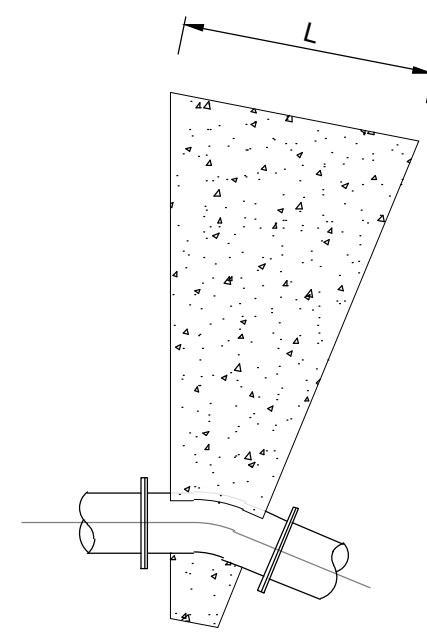
ELEVATION
90° BEND



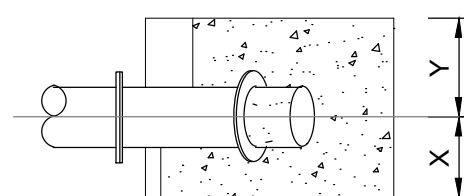
PLAN VIEW
SCALE 1:20



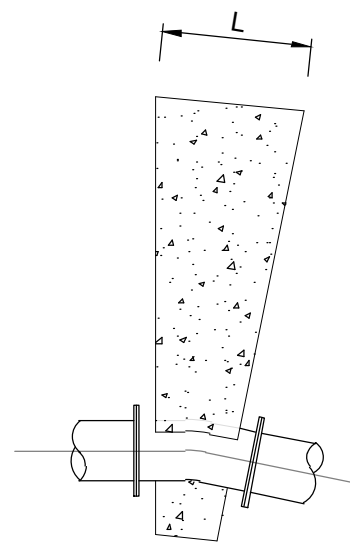
ELEVATION
45° BEND



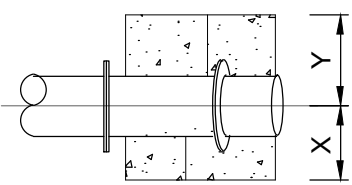
PLAN VIEW
SCALE 1:20



ELEVATION
22.5° BEND



PLAN VIEW
SCALE 1:20



ELEVATION
11.25° BEND

PRESSURE (MPa)		0.3				0.6				0.9				1.2				1.6				1.8				2.0				2.5			
DIAMETER		90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25	90	45	22.5	11.25
50	L	0.528	0.427	0.358	0.351	0.567	0.430	0.325	0.268	0.568	0.572	0.437	0.364	0.710	0.511	0.545	0.454	0.700	0.649	0.461	0.348	0.774	0.539	0.539	0.383	0.847	0.589	0.559	0.418	1.032	0.717	0.487	0.510
	X	0.225	0.184	0.143	0.102	0.266	0.225	0.184	0.143	0.307	0.225	0.184	0.143	0.307	0.266	0.184	0.143	0.348	0.266	0.225	0.184	0.348	0.307	0.307	0.184	0.348	0.307	0.225	0.184	0.348	0.307	0.266	0.184
	Y	0.275	0.225	0.175	0.125	0.325	0.275	0.225	0.175	0.375	0.275	0.225	0.175	0.375	0.325	0.225	0.175	0.425	0.325	0.275	0.225	0.425	0.375	0.375	0.225	0.425	0.375	0.275	0.225	0.425	0.375	0.325	0.225
75	L	0.598	0.590	0.441	0.356	0.705	0.639	0.450	0.330	0.939	0.648	0.599	0.441	1.174	0.635	0.545	0.552	1.197	0.804	0.689	0.478	1.323	0.890	0.890	0.528	1.450	0.974	0.633	0.578	1.452	1.186	0.604	0.510
	X	0.317	0.235	0.194	0.153	0.358	0.276	0.235	0.194	0.358	0.317	0.235	0.194	0.358	0.358	0.276	0.194	0.399	0.358	0.276	0.235	0.399	0.358	0.358	0.235	0.399	0.358	0.317	0.235	0.440	0.358	0.358	0.276
	Y	0.388	0.287	0.237	0.187	0.438	0.337	0.287	0.237	0.438	0.388	0.287	0.237	0.438	0.438	0.337	0.237	0.488	0.438	0.337	0.287	0.488	0.438	0.438	0.287	0.488	0.438	0.338	0.287	0.538	0.438	0.438	0.337
90 - 110	L	0.789	0.706	0.489	0.354	1.183	0.641	0.540	0.529	1.278	0.854	0.550	0.491	1.321	1.067	0.689	0.615	1.672	1.352	0.689	0.572	1.553	1.210	1.210	0.633	1.701	1.325	0.834	0.697	1.764	1.334	1.016	0.646
	X	0.368	0.286	0.245	0.204	0.368	0.368	0.286	0.204	0.409	0.368	0.327	0.245	0.450	0.368	0.327	0.245	0.450	0.368	0.368	0.286	0.491	0.409	0.409	0.286	0.491	0.409	0.368	0.268	0.532	0.450	0.368	0.327
	Y	0.450	0.350	0.300	0.250	0.450	0.450	0.350	0.250	0.500	0.450	0.400	0.300	0.550	0.450	0.400	0.300	0.550	0.450	0.350	0.450	0.600	0.500	0.500	0.350	0.600	0.500	0.450	0.350	0.650	0.550	0.450	0.400
125	L	1.167	0.631	0.524	0.503	1.425	0.947	0.607	0.531	1.578	1.264	0.644	0.527	1.664	1.286	0.805	0.658	1.801	1.629	1.019	0.644	1.991	1.494	1.494	0.712	1.885	1.637	1.234	1.780	2.004	1.680	1.224	0.755
	X	0.378	0.378	0.297	0.215	0.419	0.378	0.337	0.256	0.460	0.378	0.378	0.297	0.501	0.419	0.378	0.297	0.542	0.419	0.378	0.337	0.542	0.460	0.460	0.337	0.583	0.460	0.378	0.337	0.624	0.501	0.419	0.378
	Y	0.462	0.462	0.362	0.262	0.513	0.462	0.412	0.312	0.563	0.462	0.462	0.362	0.613	0.513	0.462	0.362	0.663	0.513	0.462	0.412	0.663	0.563	0.563	0.412	0.713	0.563	0.462	0.412	0.763	0.613	0.513	0.462
150	L	1.304	0.862	0.706	0.472	1.631	1.293	0.659	0.532	1.840	1.412	0.879	0.708	1.972	1.471	1.099	0.689	2.166	1.977	1.392	0.699	2.095	1.743	1.743	0.713	2.294	1.909	1.379	0.847	2.465	1.993	1.400	1.031
	X	0.429	0.389	0.307	0.266	0.470	0.389	0.389	0.307	0.511	0.429	0.389	0.307	0.552	0.470	0.389	0.348	0.593	0.511	0.389	0.389	0.634	0.511	0.511	0.389	0.634	0.511	0.429	0.389	0.675	0.552	0.470	0.389
	Y	0.525	0.475	0.375	0.325	0.575	0.475	0.475	0.375	0.625	0.525	0.475	0.375	0.675	0.575	0.475	0.425	0.725	0.625	0.475	0.475	0.775	0.625	0.625	0.475	0.775	0.625	0.525	0.475	0.825	0.675	0.575	0.475
200	L	1.775	1.383	0.705	0.554	1.956	1.715	1.058	0.656	2.272	1.637	1.411	0.708	2.496	2.047	1.457	0.886	2.498	1.947	1.551	1.122	2.761	2.152	2.152	1.240	2.714	2.357	1.877	1.358	2.982	2.522	1.947	1.366
	X	0.491	0.409	0.409	0.327	0.573	0.450	0.409	0.368	0.614	0.532	0.409	0.409	0.654	0.532	0.450	0.409	0.736	0.614	0.491	0.409	0.736	0.614	0.614	0.409	0.777	0.614	0.491	0.409	0.818	0.654	0.532	0.450
	Y	0.600	0.500	0.500	0.400	0.700	0.550	0.500	0.450	0.750	0.650	0.500	0.500	0.800	0.650	0.550	0.500	0.900	0.750	0.600	0.500	0.900	0.750	0.750	0.500	0.950	0.750	0.600	0.500	1.000	0.800	0.650	0.550
250	L	1.900	1.634	1.000	0.766	2.201	1.779	1.499	0.753	2.608	2.056	1.667	1.004	2.917	2.249	1.763	1.255	3.010	2.514	1.915	1.590	3.024	2.470	2.470	1.465	3.312	2.706	2.009	1.605	3.375	2.653	2.141	1.653
	X	0.593	0.470	0.429	0.348	0.675	0.552	0.429	0.429	0.716	0.593	0.470	0.429	0.757	0.634	0.511	0.429	0.838	0.675	0.552	0.429	0.879	0.716	0.716	0.470	0.879	0.716	0.593	0.470	0.961	0.798	0.634	0.511
	Y	0.725	0.575	0.525	0.425	0.825	0.675	0.525	0.525	0.875	0.725	0.575	0.525	0.925	0.775	0.625	0.525	1.025	0.825	0.675	0.525	1.075	0.875	0.875	0.575	1.075	0.875	0.725	0.575	1.175	0.975	0.775	0.625
300	L	2.247	1.842	1.311	0.797	2.663	2.075	1.653	0.989	2.876	2.432	1.878	1.318	3.260	2.693	2.024	1.647	3.443	2.730	2.233	1.753	3.495	3.018	3.018	1.651	3.527	2.983	2.376	1.808	3.970	3.294	2.562	1.898
	X	0.654	0.532	0.450	0.409	0.736	0.614	0.491	0.450	0.818	0.654	0.532	0.450	0.859	0.695	0.573	0.450	0.941	0.777	0.614	0.491	0.982	0.777	0.777	0.532	1.023	0.818	0.654	0.532	1.063	0.859	0.695	0.573
	Y	0.800	0.650	0.550	0.500	0.900	0.750	0.600	0.550	1.000	0.800	0.650	0.550	1.050	0.850	0.700	0.550	1.150	0.950	0.750	0.600	1.200	0.950	0.950	0.650	1.250	1.000	0.800	0.650	1.300	1.050	0.850	0.700
350	L	2.556	2.015	1.633	0.820	3.088	2.334	1.777	1.231	3.387	2.767	2.055	1.641	3.544	2.785	2.247	1.736	3.812	3.192	2.512	1.885	3.902	3.208	3.208	2.084	3.968	3.208	2.704	1.978	4.498	3.580	2.650	2.108
	X	0.716	0.593	0.470	0.470	0.798	0.675	0.552	0.470	0.879	0.716	0.593	0.470	0.961	0.798	0.634	0.511	1.043	0.838	0.675	0.552	1.084	0.879	0.879	0.552	1.125	0.920	0.716	0.593	1.166	0.961	0.798	0.634
	Y	0.875	0.725	0.575	0.575	0.975	0.825	0.675	0.575	1.075	0.875	0.725	0.575	1.175	0.975	0.775	0.625	1.275	1.025	0.825	0.675	1.325	1.075	1.075	0.675	1.375	1.125	0.875	0.725	1.425	1.175	0.975	0.775
400	L	2.832	2.161	1.669	0.984	3.169	2.562	2.159	1.477	3.550	2.767	2.204	1.677	3.781	3.137	2.441	1.808	4.130	3.312	2.757	1.995	4.255	3.362	3.362	2.205	4.355	3.683	2.995	2.122	4.660	3.820	2.985	2.289
	X	0.777	0.654	0.532	0.491	0.900	0.736	0.573	0.491	0.982	0.818	0.654	0.532	1.063	0.859	0.695	0.573	1.145	0.941	0.736	0.613	1.186	0.982	0.982	0.613	1.227	0.982	0.777	0.654	1.309	1.063	0.859	0.695
	Y	0.950	0.800	0.650	0.600	1.100	0.900	0.700	0.600	1.200	1.000	0.800	0.650	1.300	1.050	0.850	0.700	1.400	1.150	0.900	0.750	1.450	1.200	1.200	0.750	1.500	1.200	0.950	0.800	1.600	1.300	1.050	0.850
450	L	3.079	2.572	1.959	1.148	3.515	2.763	2.229	1.722	3.980	3.030	2.623	1.969	4.278	3.458	2.608	2.133	4.405	3.695	2.973	2.364	4.565	3.770	3.770	2.306	4.999	3.823	3.257	2.526	5.074	4.322	3.291	2.733
	X	0.838	0.675	0.552	0.511	0.961	0.798	0.634	0.511	1.043	0.879	0.675	0.552	1.125	0.920	0.757	0.593	1.247	1.002	0.798	0.634	1.288	1.043	1.043	0.675	1.288	1.084	0.838	0.675	1.411	1.125	0.920	0.716
	Y	1.025	0.825	0.675	0.625	1.175	0.975	0.775	0.625	1.275	1.075	0.825	0.675	1.375	1.125	0.925	0.757	1.525	1.225	0.975	0.775	1.575	1.275	1.275	0.825	1.575	1.325	1.025	0.825	1.725	1.375	1.125	0.875
500	L	3.301	2.668	1.959	1.310	3.834	2.941	2.288	1.965	4.075	3.269	2.721	1.968	4.438	3.753	2.755	2.163	4.940	4.050	3.165	2.427	5.135	4.151	4.151	2.682	5.298	4.227	3.491	2.620	5.446	4.483	3.571	2.863
	X	0.900	0.736	0.614	0.532	1.023	0.859	0.695	0.532	1.145	0.941	0.736	0.614	1.227	0.982	0.818	0.654	1.309	1.063	0.859	0.695	1.350	1.104	1.104	0.695	1.391	1.145	0.900	0.736	1.513	1.227	0.982	0.777
	Y	1.100	0.900	0.750	0.650	1.250	1.050	0.850	0.650	1.400	1.150	0.900	0.750	1.500	1.200	1.000	0.800	1.600	1.300	1.050	0.850	1.650	1.350	1.350	1.100	1.850	1.700	1.400	1.100	1.900	1.500	1.200	0.9