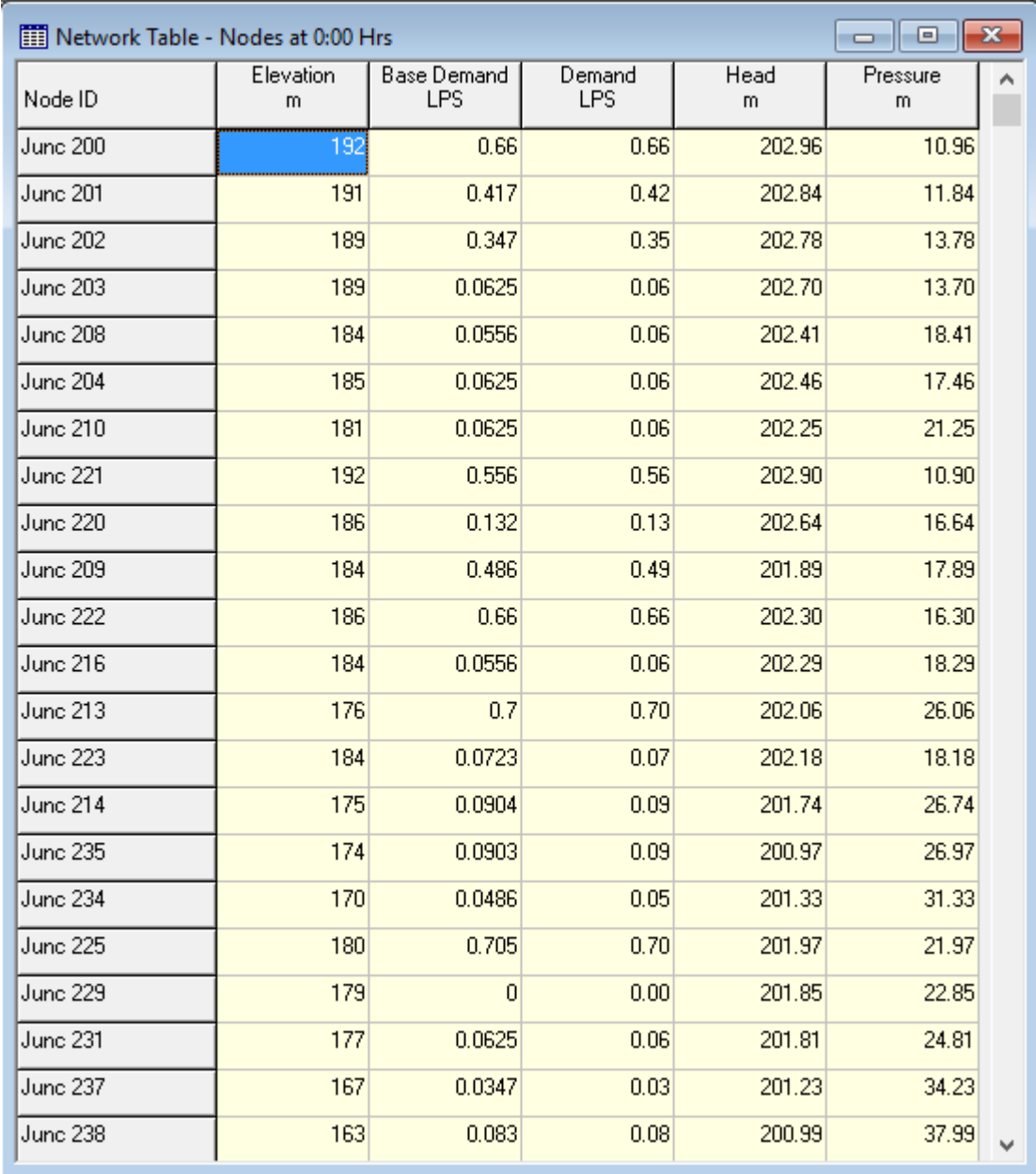


## LAMPIRAN 1

### TABEL HASIL ANALISA EPANET 2.0



The image shows a screenshot of the 'Network Table - Nodes at 0:00 Hrs' window from Epanet 2.0. The window contains a table with 6 columns: Node ID, Elevation m, Base Demand LPS, Demand LPS, Head m, and Pressure m. The table lists 24 nodes, with Node ID 'Junc 200' highlighted in blue. The values for each node are as follows:

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 200	192	0.66	0.66	202.96	10.96
Junc 201	191	0.417	0.42	202.84	11.84
Junc 202	189	0.347	0.35	202.78	13.78
Junc 203	189	0.0625	0.06	202.70	13.70
Junc 208	184	0.0556	0.06	202.41	18.41
Junc 204	185	0.0625	0.06	202.46	17.46
Junc 210	181	0.0625	0.06	202.25	21.25
Junc 221	192	0.556	0.56	202.90	10.90
Junc 220	186	0.132	0.13	202.64	16.64
Junc 209	184	0.486	0.49	201.89	17.89
Junc 222	186	0.66	0.66	202.30	16.30
Junc 216	184	0.0556	0.06	202.29	18.29
Junc 213	176	0.7	0.70	202.06	26.06
Junc 223	184	0.0723	0.07	202.18	18.18
Junc 214	175	0.0904	0.09	201.74	26.74
Junc 235	174	0.0903	0.09	200.97	26.97
Junc 234	170	0.0486	0.05	201.33	31.33
Junc 225	180	0.705	0.70	201.97	21.97
Junc 229	179	0	0.00	201.85	22.85
Junc 231	177	0.0625	0.06	201.81	24.81
Junc 237	167	0.0347	0.03	201.23	34.23
Junc 238	163	0.083	0.08	200.99	37.99

Network Table - Nodes at 0:00 Hrs						
Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m	
Junc 243	153	0.681	0.68	200.62	47.62	
Junc 242	155	0.0556	0.06	200.70	45.70	
Junc 244	146	0.083	0.08	200.44	54.44	
Junc 245	145	0.153	0.15	200.32	55.32	
Junc 240	160	0	0.00	200.78	40.78	
Junc 224	181	0.083	0.08	202.08	21.08	
Junc 206	185	0.0556	0.06	202.14	17.14	
Junc 227	179	0.0417	0.04	201.95	22.95	
Junc 102	224	0.722	0.72	234.87	10.87	
Junc 103	217	0.153	0.15	234.51	17.51	
Junc 106	214	0.0625	0.06	234.23	20.23	
Junc 107	213	0.0417	0.04	234.11	21.11	
Junc 108	209	0.0729	0.07	233.96	24.96	
Junc 117	204	0.132	0.13	233.89	29.89	
Junc 119	195	0.0278	0.03	233.68	38.68	
Junc 120	194	0.0278	0.03	233.60	39.60	
Junc 121	192	0.0556	0.06	233.53	41.53	
Junc 122	190	0.0556	0.06	233.40	43.40	
Junc 112	195	0.0486	0.05	233.10	38.10	
Junc 109	206	0.0417	0.04	233.64	27.64	
Junc 110	198	0.0417	0.04	233.44	35.44	
Junc 111	197	0.0486	0.05	233.19	36.19	

Network Table - Nodes at 0:00 Hrs					
Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 123	188	0.0347	0.03	233.30	45.30
Junc 124	186	0.0485	0.05	233.24	47.24
Junc 113	195	0.0417	0.04	232.96	37.96
Junc 114	190	0.660	0.66	232.87	42.87
Junc 115	187	0.0625	0.06	232.66	45.66
Junc 116	183	0.0903	0.09	232.46	49.46
Junc 125	184	0.104	0.10	233.18	49.18
Junc 128	183	0.0764	0.08	232.98	49.98
Junc 129	181	0.674	0.67	232.89	51.89
Junc 130	179	0.04	0.04	232.82	53.82
Junc 131	171	0.0486	0.05	232.66	61.66
Junc 132	167	0.0603	0.06	232.58	65.58
Junc 133	164	0.0903	0.09	232.30	68.30
Junc 1002	170	0.0347	0.03	187.67	17.67
Junc 1003	170	0.0486	0.05	187.66	17.66
Junc 1001	177	0.0556	0.06	187.89	10.89
Junc 1023	170	0.417	0.42	187.56	17.56
Junc 1004	168	0.0694	0.07	187.60	19.60
Junc 1005	164	0.0357	0.04	187.55	23.55
Junc 1007	159	0.646	0.65	187.48	28.48
Junc 1010	162	0.0417	0.04	187.46	25.46
Junc 1009	165	0.0694	0.07	187.55	22.55

Network Table - Nodes at 0:00 Hrs					
Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 1025	167	0.0556	0.06	187.47	20.47
Junc 1013	164	0.0417	0.04	187.34	23.34
Junc 1029	163	0.0764	0.08	187.34	24.34
Junc 1012	160	0.0208	0.02	187.41	27.41
Junc 1016	161	0.0278	0.03	187.28	26.28
Junc 1017	159	0.681	0.68	187.25	28.25
Junc 1015	162	0.0138	0.01	187.32	25.32
Junc 1021	170	0.0417	0.04	187.63	17.63
Junc 1024	168	0.0417	0.04	187.51	19.51
Junc 1042	163	0.0486	0.05	187.38	24.38
Junc 1043	158	0.777	0.78	187.23	29.23
Junc 1030	163	0.0347	0.03	187.32	24.32
Junc 1028	165	0.646	0.65	187.40	22.40
Junc 1033	163	0.0417	0.04	187.21	24.21
Junc 1034	161	0.0417	0.04	187.13	26.13
Junc 1035	160	0.0745	0.07	187.08	27.08
Junc 1031	159	0.0903	0.09	186.94	27.94
Junc 1037	155	0.681	0.68	187.00	32.00
Junc 1040	151	0.0903	0.09	186.79	35.79
Junc 1048	149	0.0556	0.06	186.99	37.99
Junc 1046	151	0.0278	0.03	187.16	36.16
Junc 1051	148	0.0278	0.03	186.98	38.98

Network Table - Nodes at 0:00 Hrs

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 1048	149	0.0556	0.06	186.99	37.99
Junc 1046	151	0.0278	0.03	187.16	36.16
Junc 1051	148	0.0278	0.03	186.98	38.98
Junc 1052	148	0.0556	0.06	186.83	38.83
Junc 1053	149	0.0278	0.03	186.77	37.77
Junc 1055	144	0.0556	0.06	186.48	42.48
Junc 1056	145	0.0278	0.03	186.28	41.28
Junc 1059	142	0.132	0.13	186.18	44.18
Junc 1061	139	0.1	0.10	186.08	47.08
Junc 1063	139	0.66	0.66	186.05	47.05
Junc 1058	147	0.0625	0.06	186.40	39.40
Junc 1054	148	0.0556	0.06	186.62	38.62
Junc 219	185	0.0347	0.03	202.60	17.60
Junc 215	183	0.0625	0.06	202.07	19.07
Junc 1047	152	0.0486	0.05	187.06	35.06
Junc 218	184	0.104	0.10	202.54	18.54
Junc 1026	167	0.0347	0.03	187.47	20.47
Junc 1050	144	0.181	0.18	186.77	42.77
Resvr RESERVOIR1	188	#N/A	-6.50	188.00	0.00
Resvr RESERVOIR2	235	#N/A	-3.56	235.00	0.00
Resvr RESERVOIR3	203	#N/A	-6.80	203.00	0.00

Network Table - Links at 0:00 Hrs

Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
Pipe 44	20.28	38.1	140	0.54	0.48	8.25	Open
Pipe 14	22.77	19	140	-0.09	0.32	8.86	Open
Pipe 12	20.37	50.8	140	-0.81	0.40	4.31	Open
Pipe 11	29.29	50.8	140	-0.85	0.42	4.73	Open
Pipe 72	13.54	50.8	140	0.71	0.35	3.34	Open
Pipe 45	35.78	38.1	140	0.49	0.43	6.75	Open
Pipe 10	17.91	50.8	140	-0.90	0.45	5.24	Open
Pipe 13	36.28	25.4	140	-0.15	0.30	5.71	Open
Pipe 22	32.28	50.8	140	-0.99	0.49	6.20	Open
Pipe 46	31.45	76.2	140	-2.19	0.48	3.76	Open
Pipe 43	47.50	76.2	140	-3.40	0.74	8.44	Open
Pipe 39	23.36	101.6	140	-4.34	0.54	3.27	Open
Pipe 40	15.80	101.6	140	-4.69	0.58	3.78	Open
Pipe 41	25.98	101.6	140	-5.10	0.63	4.42	Open
Pipe 53	40.78	19	140	-0.09	0.32	8.86	Open
Pipe 37	11.26	50.8	140	0.82	0.40	4.36	Open
Pipe 36	40.64	50.8	140	0.76	0.38	3.83	Open
Pipe 47	28.46	76.2	140	2.12	0.47	3.53	Open
Pipe 48	34.00	76.2	140	2.04	0.45	3.28	Open
Pipe 54	14.00	50.8	140	-1.09	0.54	7.42	Open
Pipe 55	33.15	50.8	140	1.06	0.52	6.99	Open
Pipe 56	35.00	50.8	140	0.97	0.48	6.01	Open

Network Table - Links at 0:00 Hrs

Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
Pipe 57	14.59	50.8	140	0.97	0.48	6.01	Open
Pipe 58	13.48	50.8	140	0.92	0.45	5.39	Open
Pipe 7	46.94	50.8	140	1.04	0.51	6.74	Open
Pipe 63	4.94	76.2	140	1.70	0.37	2.33	Open
Pipe 74	8.65	101.6	140	4.71	0.58	3.82	Open
Pipe 75	20.59	101.6	140	4.67	0.58	3.75	Open
Pipe 76	16.37	76.2	140	1.91	0.42	2.91	Open
Pipe 77	13.32	76.2	140	1.87	0.41	2.79	Open
Pipe 90	33.90	76.2	140	1.52	0.33	1.90	Open
Pipe 95	26.77	50.8	140	1.04	0.51	6.79	Open
Pipe 96	23.67	50.8	140	1.01	0.50	6.46	Open
Pipe 80	7.26	50.8	140	1.13	0.56	7.94	Open
Pipe 81	2.96	50.8	120	1.05	0.52	9.28	Open
Pipe 82	42.08	19	140	0.09	0.32	8.86	Open
Pipe 64	16.48	50.8	140	0.68	0.34	3.11	Open
Pipe 67	21.02	50.8	140	0.90	0.44	5.16	Open
Pipe 69	14.21	50.8	140	0.79	0.39	4.04	Open
Pipe 70	16.15	50.8	140	0.76	0.38	3.85	Open
Pipe 71	6.10	50.8	140	0.72	0.36	3.46	Open
Pipe 73	9.91	50.8	140	0.68	0.34	3.10	Open
Pipe 83	19.64	50.8	140	0.93	0.46	5.52	Open
Pipe 84	17.68	50.8	140	0.80	0.39	4.16	Open

Network Table - Links at 0:00 Hrs

Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
Pipe 85	13.26	50.8	140	0.76	0.37	3.76	Open
Pipe 86	28.50	50.8	140	0.68	0.34	3.11	Open
Pipe 91	17.72	38.1	140	0.45	0.40	5.87	Open
Pipe 92	16.89	31.75	140	0.24	0.30	4.33	Open
Pipe 97	11.51	38.1	140	0.41	0.36	4.87	Open
Pipe 98	17.62	38.1	140	0.55	0.48	8.36	Open
Pipe 99	20.99	38.1	140	0.49	0.43	6.85	Open
Pipe 102	22.04	38.1	140	0.41	0.36	4.85	Open
Pipe 104	25.32	50.8	140	0.76	0.37	3.81	Open
Pipe 105	8.46	50.8	140	0.66	0.33	2.93	Open
Pipe 78	2.36	76.2	140	1.81	0.40	2.64	Open
Pipe 79	25.11	76.2	140	1.78	0.39	2.54	Open
Pipe 42	8.06	101.6	140	-5.76	0.71	5.54	Open
Pipe 27	14.62	50.8	140	1.04	0.51	6.75	Open
Pipe 61	15.50	101.6	140	-6.50	0.80	6.92	Open
Pipe 8	31.20	50.8	140	-0.99	0.49	6.25	Open
Pipe 65	23.64	50.8	140	-0.65	0.32	2.82	Open
Pipe 88	42.01	76.2	140	2.34	0.51	4.25	Open
Pipe 94	43.41	25.4	140	0.17	0.33	6.60	Open
Pipe 103	36.33	38.1	140	-0.43	0.38	5.48	Open
Pipe 100	50.97	38.1	140	0.55	0.48	8.43	Open
Pipe 101	33.17	38.1	140	-0.49	0.43	6.73	Open



Network Table - Links at 0:00 Hrs

Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
Pipe 89	36.97	76.2	140	2.29	0.50	4.09	Open
Pipe 9	44.08	50.8	140	0.95	0.47	5.77	Open
Pipe 60	20.21	25.4	140	0.15	0.30	5.72	Open
Pipe 59	42.55	31.75	140	0.24	0.30	4.31	Open
Pipe 2	59.89	76.2	140	2.84	0.62	6.07	Open
Pipe 3	51.02	76.2	140	2.69	0.59	5.48	Open
Pipe 4	23.17	76.3	140	2.63	0.57	5.21	Open
Pipe 5	29.66	76.2	140	2.58	0.57	5.09	Open
Pipe 6	38.86	76.2	140	1.48	0.32	1.80	Open
Pipe 15	55.58	63.5	140	1.34	0.42	3.69	Open
Pipe 16	23.62	63.5	140	1.32	0.42	3.55	Open
Pipe 17	20.76	63.5	140	1.29	0.41	3.41	Open
Pipe 18	39.10	63.5	140	-1.23	0.39	3.14	Open
Pipe 19	36.01	63.5	140	-1.18	0.37	2.88	Open
Pipe 20	23.22	63.5	140	1.14	0.36	2.73	Open
Pipe 21	22.48	63.5	140	-1.09	0.35	2.52	Open
Pipe 106	14.84	31.75	140	-0.24	0.30	4.41	Open
Pipe 23	17.03	50.8	140	-0.91	0.45	5.35	Open
Pipe 24	17.08	25.4	140	-0.20	0.39	9.33	Open
Pipe 25	14.82	25.4	140	0.15	0.30	5.56	Open
Pipe 26	32.23	19	140	0.09	0.32	8.86	Open
Pipe 68	18.88	50.8	140	-0.83	0.41	4.45	Open

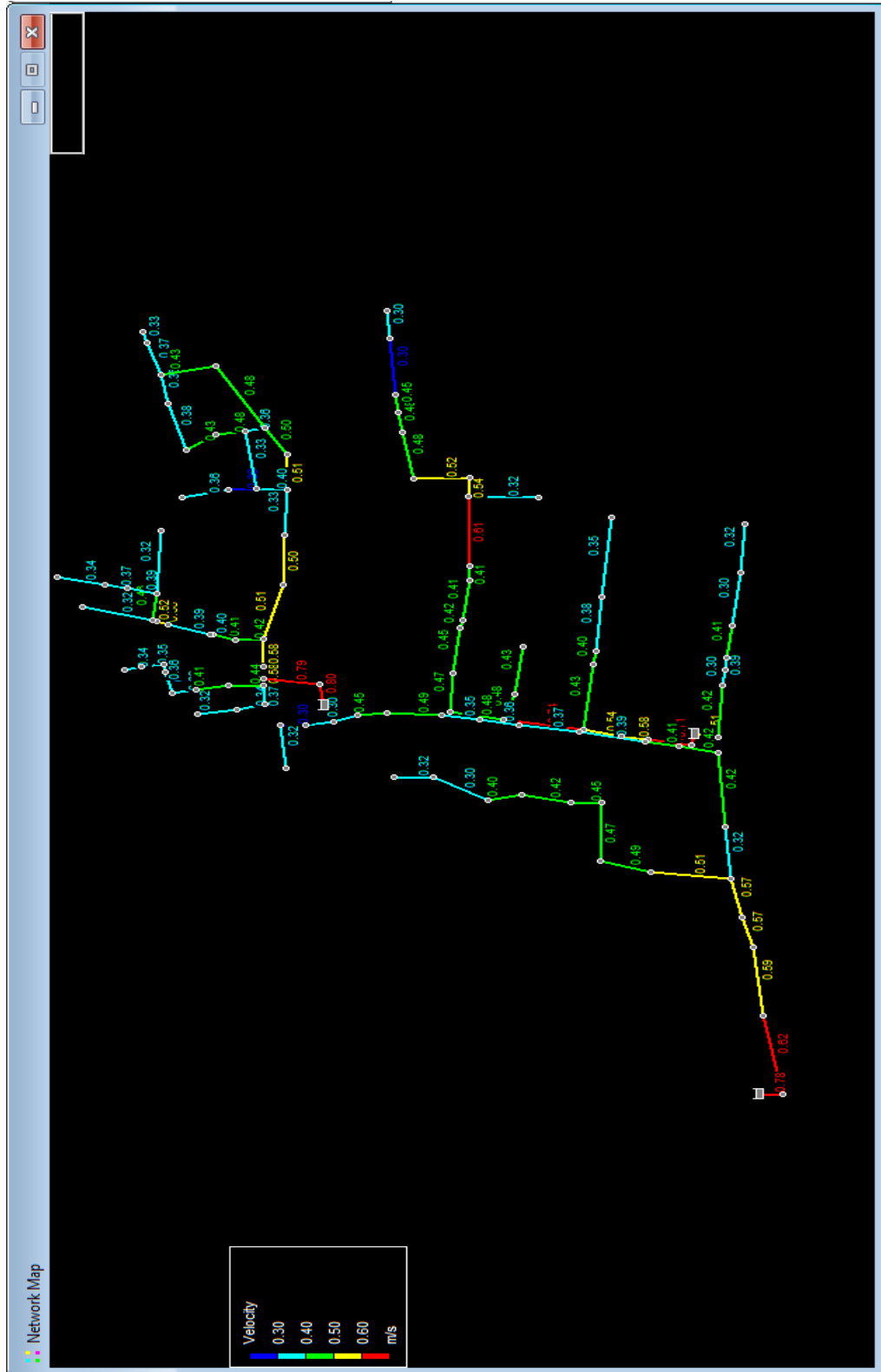
Network Table - Links at 0:00 Hrs

Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
Pipe 24	17.08	25.4	140	-0.20	0.39	9.33	Open
Pipe 25	14.82	25.4	140	0.15	0.30	5.56	Open
Pipe 26	32.23	19	140	0.09	0.32	8.86	Open
Pipe 68	18.88	50.8	140	-0.83	0.41	4.45	Open
Pipe 38	49.63	50.8	140	0.88	0.43	5.00	Open
Pipe 1	14.01	76.2	140	3.56	0.78	9.23	Open
Pipe 28	39.00	38.1	140	0.48	0.42	6.58	Open
Pipe 29	11.52	38.1	140	0.35	0.30	3.62	Open
Pipe 30	9.36	31.75	140	0.31	0.39	7.24	Open
Pipe 31	23.85	25.4	140	0.21	0.41	10.15	Open
Pipe 32	39.55	25.4	140	0.15	0.30	5.71	Open
Pipe 33	36.32	19	140	0.09	0.32	8.88	Open
Pipe 49	6.04	63.5	140	1.33	0.42	3.64	Open
Pipe 50	29.68	63.5	140	1.29	0.41	3.43	Open
Pipe 51	11.34	63.5	140	1.29	0.41	3.43	Open
Pipe 52	51.88	50.8	140	1.23	0.61	9.27	Open
Pipe 62	33.17	101.6	140	6.44	0.79	6.81	Open
Pipe 66	14.21	50.8	140	0.75	0.37	3.72	Open
Pipe 87	46.99	19	140	0.09	0.32	8.86	Open
Pipe 93	27.43	25.4	140	0.18	0.36	7.81	Open
Pipe 35	59.13	50.8	140	0.70	0.35	3.27	Open

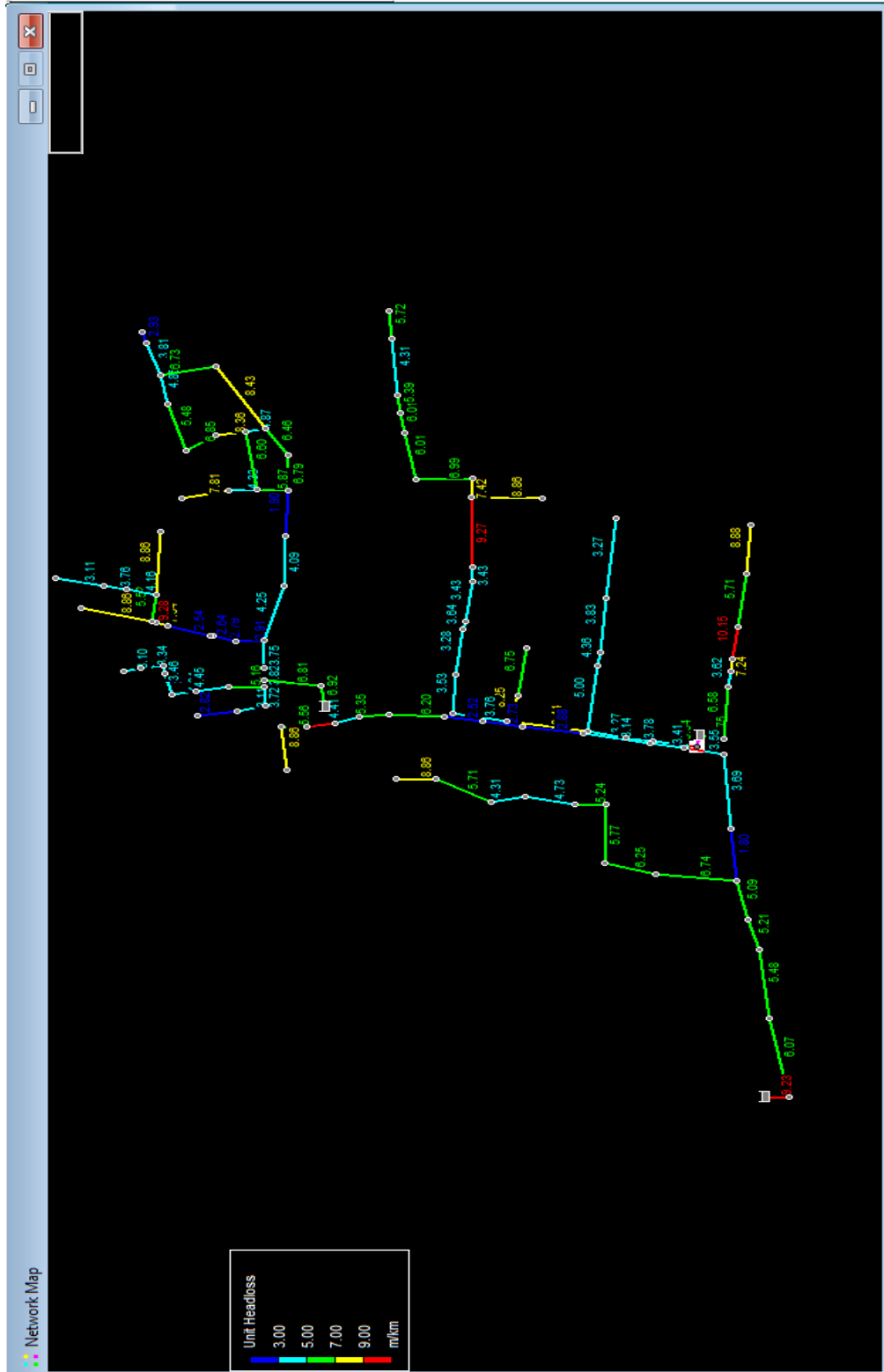
# ELEVASI NODE RENCANA



# VELOCITY PIPA AIR RENCANA



# UNIT HEADLOSS PIPA



# PREASURE PIPA



