



## LAMPIRAN 1

Tabel Input Jarak Antar Cross Section

STA	LOB	CHANNEL	ROB	STA	LOB	CHANNEL	ROB
0	0	0	0	35	87.9536	82.8713	71.5746
1	101.7285	105.1052	114.0555	36	121.0217	129.9798	118.1057
2	107.0433	114.5209	134.0196	37	99.341	103.038	96.801
3	120.8607	108.3772	114.6724	38	127.428	133.9294	136.1433
4	100.0782	131.3088	151.3331	39	83.6477	105.0568	108.7704
5	97.9865	98.2748	97.6078	40	101.3974	101.3974	106.1101
6	99.279	99.4027	99.3951	41	103.9088	205.3062	109.0805
7	95.8956	107.6354	108.2485	42	152.8381	358.1443	162.183
8	96.097	94.927	93.4341	43	94.2561	452.4004	86.8135
9	101.1222	100.9211	101.4617	44	98.438	108.0315	114.8887
10	99.7551	101.7596	101.3671	45	91.2284	92.5706	78.0357
11	100.1848	106.0023	95.8808	46	96.1337	104.6899	79.2118
12	100.0523	105.7412	89.2718	47	85.9557	80.4335	73.4491
13	99.4467	105.0558	97.3648	48	101.1274	102.0709	102.4039
14	99.496	89.5452	82.9859	49	107.9022	108.6977	116.6393
15	102.5248	95.2867	83.7972	50	89.6406	86.052	81.2682
16	94.7593	94.9978	88.9065	51	99.1053	99.9347	95.2867
17	99.0747	94.6778	81.232	52	99.3851	98.6634	96.1061
18	99.0464	93.6664	79.7482	53	94.5531	93.0343	88.9841
19	98.5588	90.3425	72.1444	54	106.8551	112.8948	117.2209
20	103.8473	84.5889	69.4481	55	101.1229	99.9646	99.4401
21	101.511	73.448	61.8623	56	92.9436	93.7447	92.175
22	97.5624	103.8069	105.4772	57	104.6193	104.2318	103.7055
23	125.6978	143.5521	163.055	58	99.4409	100.6392	101.2528
24	101.8542	108.4947	113.9414	59	99.3062	94.2503	97.4111
25	99.7874	110.0271	116.6507	60	105.9975	105.3797	103.4342
26	100.6014	113.6751	128.8309	61	160.551	175.0817	183.7889
27	99.8918	109.1486	110.0517	62	111.3183	110.2317	109.8273
28	84.9008	108.8582	133.5017	63	102.8773	105.716	105.2805
29	98.4278	93.9664	98.199	64	109.6164	111.0132	113.6568
30	100.4977	205.4231	107.1979	65	135.3037	152.3331	160.0452
31	88.2811	93.5446	80.4796	66	108.53	112.5237	113.5081
32	82.7569	81.2195	80.6509	67	106.1489	111.4261	108.224
33	96.0928	90.1302	81.0827	68	107.8891	106.7833	111.2196
34	103.9745	95.3053	80.3389	69	107.5152	106.8744	109.4453



**Tabel Input Jarak Antar Cross Section (Lanjutan)**

STA	LOB	CHANNEL	ROB	STA	LOB	CHANNEL	ROB
70	105.8774	107.133	99.786	84	135.3214	153.0149	67.7996
71	99.5566	105.9879	101.835	85	104.1464	122.2114	91.4111
72	98.8312	97.5702	101.2106	86	102.2242	101.9384	106.923
73	99.6602	102.6361	98.5676	87	96.2711	94.3427	59.6105
74	103.7356	107.5303	102.0415	88	96.4806	95.8412	89.6105
75	100.5565	100.1593	101.3509	89	98.3198	95.1563	90.5275
76	99.9643	100.5291	91.4964	90	95.875	89.0243	82.7653
77	101.2153	101.8163	117.1654	91	96.2197	91.2273	77.302
78	100.817	101.5885	164.541	92	98.2035	86.7112	74.5637
79	98.7511	98.9244	125.5389	93	97.8016	91.2275	83.0354
80	100.2636	100.924	186.2952	94	99.0486	90.4587	69.3205
81	101.7299	105.1905	59.6105	95	99.4224	91.8645	86.783
82	97.0629	92.4759	89.6105	96	98.5032	85.8402	86.6766
83	110.4091	114.2865	90.5275	97	107.0095	95.9354	95.0348
84	135.3214	153.0149	82.7653	98	100.015	98.9689	95.6568
85	104.1464	122.2114	77.302	99	102.8595	104.2418	105.1093
86	102.2242	101.9384	74.5637	100	109.0687	118.488	123.9196
87	96.2711	94.3427	83.0354	101	108.9893	122.5727	146.5073
88	96.4806	95.8412	69.3205	102	100.728	106.1058	111.0689
89	98.3198	95.1563	86.783	103	102.6718	137.1849	145.6224
90	95.875	89.0243	86.6766	104	100.307	101.8387	100.6918
70	105.8774	107.133	95.0348	105	100.0654	103.4547	103.2807
71	99.5566	105.9879	95.6568	106	99.9822	107.8912	104.4813
72	98.8312	97.5702	105.1093	107	101.5387	100.1388	98.4934
73	99.6602	102.6361	123.9196	108	99.9011	99.6551	97.5662
74	103.7356	107.5303	146.5073	109	96.5335	89.5734	74.464
75	100.5565	100.1593	111.0689	110	98.3479	95.7821	90.1127
76	99.9643	100.5291	145.6224	111	98.0038	89.5965	67.7996
77	101.2153	101.8163	100.6918	112	100.1568	97.4697	91.4111
78	100.817	101.5885	103.2807	113	98.1167	104.8063	106.923
79	98.7511	98.9244	104.4813	114	100.6594	99.9021	83.4229
80	100.2636	100.924	98.4934	115	99.0921	99.7252	101.1311
81	101.7299	105.1905	97.5662	116	113.4565	118.984	133.475
82	97.0629	92.4759	74.464	117	122.0026	122.8307	137.4937
83	110.4091	114.2865	90.1127	118	103.298	142.8676	162.5565



**Tabel Input Jarak Antar Cross Section (Lanjutan)**

STA	LOB	CHANNEL	ROB	STA	LOB	CHANNEL	ROB
119	100.0979	97.5973	94.9736	152	101.3247	100.192	95.7495
120	94.76	75.9454	64.354	153	99.8328	100.5465	103.5284
121	96.9394	95.4421	80.9263	154	97.146	85.3042	76.114
122	98.5792	87.9111	80.3407	155	101.0093	101.6851	97.117
123	95.7652	82.0178	60.7385	156	100.5783	100.7045	101.1935
124	92.2281	81.8923	80.7831	157	99.4976	112.9778	127.7393
125	98.862	94.732	92.2785	158	102.4224	103.146	101.5824
126	102.7066	114.0352	124.5529	159	101.2734	100.911	102.7871
126+50	60.1212	72.8634	86.0894	160	104.3823	102.9991	104.5998
126+58	9.0166	25.0605	10.7091	161	101.2047	99.3878	97.3405
129	120.045	138.7386	165.1078	162	98.6211	95.0213	90.2612
129+76	79.9507	71.64	63.4537	163	98.946	88.1932	75.4377
130	17.6966	28.0418	29.2228	164	99.9554	106.3029	107.5546
131	100.7629	105.9501	109.7391	165	105.1249	100.9544	101.6124
132	101.4286	112.4852	118.2284	166	101.0357	100.815	99.9466
132+71	71.2748	70.6465	71.9722	167	100.4714	101.2502	101.5572
133	25.8154	26.4288	31.2087	168	102.4575	110.2806	120.5051
134	102.0427	101.2575	101.2766	169	99.538	100.0198	97.6404
135	94.1612	70.7198	59.4171	170	100.6066	109.428	120.0267
136	97.3732	79.3738	61.4593	171	100.4586	104.0948	108.0675
137	97.6178	106.5843	118.4625	172	100.3002	100.0197	100.0963
138	97.391	86.5392	71.4534	173	100.5995	100.2364	100.613
139	99.7158	102.5548	100.5697	174	99.0516	92.8374	87.585
140	99.0749	97.499	90.8914	174+07	7.2186	8.793	7.4892
141	98.8592	96.3006	94.5077	174+17	12.5457	17.2243	21.9487
142	99.9335	103.0815	100.042	174+94	73.0018	68.0069	62.1552
143	100.0232	99.1312	98.9	175	7.4348	8.3141	13.6459
144	100.3083	100.9839	102.0422	176	98.8273	96.3533	92.7154
145	100.0486	105.2602	106.6522	177	98.0101	92.4863	86.8428
146	99.9871	99.6971	99.8869	178	104.5598	108.3687	112.2653
147	101.2876	105.7161	104.9976	179	101.913	105.864	111.1068
148	101.251	104.848	110.5557	180	96.5446	91.3806	90.0331
149	100.2636	102.3489	100.0607	181	104.091	117.6665	122.8438
150	100.5891	109.9857	114.678	182	105.5187	124.7381	120.1961
151	101.0648	90.793	85.6986	183	105.5409	111.1341	121.2981



**Tabel Input Jarak Antar Cross Section (Lanjutan)**

STA	LOB	CHANNEL	ROB	STA	LOB	CHANNEL	ROB
184	95.8681	95.3867	95.571	216	99.9829	99.2257	93.394
185	104.3626	105.6811	107.1058	217	95.6564	96.2936	88.9708
186	90.9623	89.7584	75.4091	218	89.9529	82.0977	71.4897
187	91.1567	85.128	64.9378	219	97.3891	95.3064	95.0018
188	89.7237	77.8078	52.8441	220	93.1789	84.2669	62.0175
189	100.9438	103.0006	104.2916	221	90.4503	75.2584	25.6053
190	102.036	92.324	87.6902	222	91.5341	98.8132	142.7703
190+04	93.2319	9.121	80.7534	223	88.1824	102.6988	139.0389
190+87	80.0582	68.6429	60.4492	224	94.6987	99.4619	116.7774
191	12.54	24.4858	28.2458	225	103.6696	106.7709	110.08
192	101.1665	106.5544	108.6409	226	92.5384	86.963	70.2702
193	102.0136	110.961	120.2163	227	100.4084	100.3482	96.9101
194	93.683	92.4734	91.2549	228	60.4806	106.7928	235.7665
195	98.8235	95.1068	89.4902	229	97.5112	102.324	122.9089
196	100.4492	95.0018	87.0225	230	79.765	60.8898	21.1807
197	98.9382	95.9808	84.6606	231	104.5316	103.1272	60.6887
198	101.0436	95.8438	91.4208	232	108.7487	65.7834	68.4991
199	111.1067	110.574	127.2576	233	110.9923	89.6947	69.4479
200	102.4246	114.7646	141.9837	234	106.2958	74.0214	75.29
201	117.1054	106.8216	115.7084	231	104.5316	103.1272	60.6887
202	110.41	105.6782	111.5756	232	108.7487	65.7834	68.4991
203	111.8735	99.1232	93.0001	233	110.9923	89.6947	69.4479
204	98.9152	90.8993	90.199	234	106.2958	74.0214	75.29
205	95.0709	88.029	84.713	231	104.5316	103.1272	60.6887
206	88.8629	91.6453	82.6136	232	108.7487	65.7834	68.4991
207	92.1908	97.7048	93.3608	169	99.538	100.0198	97.6404
208	100.6883	76.7884	98.4264	170	100.6066	109.428	120.0267
209	104.5509	83.4444	103.457	171	100.4586	104.0948	108.0675
209+50	142.2811	106.788	107.5685	172	100.3002	100.0197	100.0963
210	50.8103	55.7973	53.981	173	100.5995	100.2364	100.613
211	105.7752	98.9658	97.8633	174	99.0516	92.8374	87.585
212	101.6184	99.8127	97.34	174+07	7.2186	8.793	7.4892
213	101.0043	97.8412	97.2434	174+17	12.5457	17.2243	21.9487
214	75.8455	132.7697	167.9186	174+94	73.0018	68.0069	62.1552
215	79.5538	139.2104	181.0134	175	7.4348	8.3141	13.6459



**Tabel Input Jarak Antar Cross Section (Lanjutan)**

STA	LOB	CHANNEL	ROB	STA	LOB	CHANNEL	ROB
176	98.8273	96.3533	92.7154	209	104.5509	83.4444	103.457
177	98.0101	92.4863	86.8428	209+50	142.2811	106.788	107.5685
178	104.5598	108.3687	112.2653	210	50.8103	55.7973	53.981
179	101.913	105.864	111.1068	211	105.7752	98.9658	97.8633
180	96.5446	91.3806	90.0331	212	101.6184	99.8127	97.34
181	104.091	117.6665	122.8438	213	101.0043	97.8412	97.2434
182	105.5187	124.7381	120.1961	214	75.8455	132.7697	167.9186
183	105.5409	111.1341	121.2981	215	79.5538	139.2104	181.0134
184	95.8681	95.3867	95.571	216	99.9829	99.2257	93.394
185	104.3626	105.6811	107.1058	217	95.6564	96.2936	88.9708
186	90.9623	89.7584	75.4091	218	89.9529	82.0977	71.4897
187	91.1567	85.128	64.9378	219	97.3891	95.3064	95.0018
188	89.7237	77.8078	52.8441	220	93.1789	84.2669	62.0175
189	100.9438	103.0006	104.2916	221	90.4503	75.2584	25.6053
190	102.036	92.324	87.6902	222	91.5341	98.8132	142.7703
190+04	93.2319	9.121	80.7534	223	88.1824	102.6988	139.0389
190+87	80.0582	68.6429	60.4492	224	94.6987	99.4619	116.7774
191	12.54	24.4858	28.2458	225	103.6696	106.7709	110.08
192	101.1665	106.5544	108.6409	226	92.5384	86.963	70.2702
193	102.0136	110.961	120.2163	227	100.4084	100.3482	96.9101
194	93.683	92.4734	91.2549	228	60.4806	106.7928	235.7665
195	98.8235	95.1068	89.4902	229	97.5112	102.324	122.9089
196	100.4492	95.0018	87.0225	230	79.765	60.8898	21.1807
197	98.9382	95.9808	84.6606	231	104.5316	103.1272	60.6887
198	101.0436	95.8438	91.4208	232	108.7487	65.7834	68.4991
199	111.1067	110.574	127.2576	233	110.9923	89.6947	69.4479
200	102.4246	114.7646	141.9837	234	106.2958	74.0214	75.29
201	117.1054	106.8216	115.7084	235	95.7646	102.8893	104.746
202	110.41	105.6782	111.5756	236	131.9863	93.9326	91.3597
203	111.8735	99.1232	93.0001	237	116.2446	85.7193	73.1301
204	98.9152	90.8993	90.199	238	103.6883	86.7848	79.1476
205	95.0709	88.029	84.713	239	110.3337	104.0859	102.4591
206	88.8629	91.6453	82.6136	240	107.1381	93.3716	89.5605
207	92.1908	97.7048	93.3608	241	84.6124	102.5737	119.7801
208	100.6883	76.7884	98.4264	242	118.0374	94.267	91.4916



**Tabel Input Jarak Antar Cross Section** (Lanjutan)

STA	LOB	CHANNEL	ROB
243	99.6713	95.5751	85.5021
244	95.91	95.2071	88.4975
245	105.7268	145.8172	161.653
246	102.2838	120.8777	130.2407
247	95.0888	101.0144	109.6156





## LAMPIRAN 2

**Tabel Input Cross Section Coordinate**

STA 0		STA 1		STA 2	
0	0	0	0.57	0	0.63
34.83	34.83	27.98	0.57	37.99	1.12
39.98	39.98	29.48	1.37	39.99	1.12
45.92	45.92	30.98	1.37	43.98	0.79
93.95	93.95	31.98	1.09	90.97	0.59
145.96	145.96	53.16	1.09	129.96	-0.22
225.95	225.95	91.56	0.71	144.94	-0.62
245.94	245.94	116.96	0.69	181.95	0.14
292.1	292.1	156.95	0.41	197.95	0.63
303.27	303.27	170.95	-0.31	234.95	0.54
353.27	353.27	190.94	-0.76	250.95	0.48
		265.85	-0.33	262.95	0.46
		274.06	0.63		
		324.06	0.78		
STA 3		STA 4		STA 5	
0	0.7	0	0.52	0	0.63
25.98	0.7	29.28	0.52	37.91	0.63
27.48	1.41	30.28	1.23	38.91	1.35
29.98	1.41	31.98	1.23	39.91	1.35
31.48	0.62	32.28	0.63	40.41	1.1
50.95	0.62	35.31	0.4	48.26	0.75
83.9	0.05	65.9	-0.18	69.84	0.32
104.93	-0.21	89.89	-0.48	106.46	-0.03
121.92	-0.46	109.9	-0.74	129.86	-0.59
129.92	-0.68	138.31	-0.42	157.08	0.78
161.94	0.29	141.93	0.59	157.49	1.35
162.94	0.83	155.94	0.97	166.39	1.35
179.95	0.86	158.94	0.23	167.89	0.99
219.95	0.55	183.94	0.23	192.89	0.99
249.95	0.22				
STA 6		STA 7		STA 8	
0	0.95	0	0.76	0	0.26
20	0.95	20	0.76	10	0.26
21.2	1.437	22	1.509	13	1.33
22.1	1.437	51.4	1.12	21.82	1.33
22.4	1.24	55.93	0.57	22.42	0.51
27.77	1.21	71.23	-0.26	31.41	0.77
34.09	0.74	91.27	-0.76	32.02	1.13
54.7	0.21	131.33	-0.2	35.09	1.13
77.71	-0.02	145.33	0.6	35.69	0.75
103.7	-0.45	146.34	1.2	41.19	0.75
128.72	0.24	161.34	1.26	41.99	1.43
131.13	1.17			53.38	1.22
141.13	1.17			54.38	0.68
142.73	0.74			71.52	-0.43
167.73	0.74			86.1	-0.87
				135.77	0.51
				140.77	0.92
				158.78	1.15
				182.38	1.57



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 9		STA 10		STA 11	
0	0.94	0	0.8	0	0.62
20	0.94	40	1.4	20	0.62
22	1.25	70	1.19	22.2	1.46
24	1.25	70.5	1.19	32	1.46
25	0.7	71.3	0.29	32.8	1.01
35	1	91.3	-3.98	56.2	1.16
36.6	0.66	108.19	-0.67	80.91	1.16
37.1	0.66	130.82	0.7	81.41	0.09
37.69	0.4	138.04	1.29	104.91	-0.34
75.08	0.87	163.25	1.75	128.46	-0.73
84.47	1.06	191.65	2.04	150.86	0.45
85.47	0.5			154.86	0.75
116.2	-2.62			183.06	0.36
136.28	-1.08			209.27	1.16
157.67	0.57				
162.29	0.81				
187.89	1.32				
211.08	1.86				
STA 12		STA 13		STA 14	
0	0.74	0	0.79	0	0.74
20	0.74	20	0.79	33.59	1.28
23	1.59	23	2.24	55.59	1.47
27	1.59	24.4	2.24	57.97	1.47
27.8	1.29	26	1.31	58.37	0.59
59.39	1.3	46	1.48	75.83	-2.29
63.77	1.43	47.1	1.48	105.03	-2.7
64.37	-0.31	47.77	0.69	138.57	0.49
83.29	-2.33	62.8	-2.16	140.77	1.23
115.4	-0.43	105.83	-3.06	148.18	2.63
133.03	0.59	126.77	0.57	153.58	2.66
160.25	2.09	149.98	1.07	155.68	-0.55
187.05	2.3	159.98	2.72	195.68	-0.75
193.05	2.3	166.37	2.62		
		179.59	-0.48		
		181.39	-0.48		
		201.39	-0.48		
STA 15		STA 16		STA 17	
0	1.66	0	1.56	0	0.57
28.29	1.66	21.62	1.31	50	0.57
30.29	1.7	24.22	0.53	53	2.04
31.59	1.7	32.22	0.64	64.07	1.2
36.04	1.42	35.22	1.81	65.54	0.6
36.64	0.66	39.22	1.81	71.26	-0.06
63.01	-2.19	41.85	1.81	79.81	0.59
91.47	-0.82	41.85	1.51	82.98	2.04
112.57	0.33	62.8	1.95	85.98	2.04
113.57	1.69	64.2	1.95	89.13	2.38
140.79	1.7	66.8	0.75	90.55	0.68
165.19	1.8	80.89	-2.67	106.57	-2.41
		108.87	-0.35	125.47	0.06
		143.15	0.69	155.35	0.62
		145.79	2.03	157.58	1.57
		173.4	1.79	179.18	2.7
		201.2	2.01	183.98	1.79
				185.98	0.1
				210.98	0.1





**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 18		STA 19		STA 20	
0	0.55	0	0.9	0	1.87
50	0.55	49.96	0.84	26.15	1.97
52.2	1.96	55.47	1.77	54	1.93
60.4	1.66	61.47	2.14	57	1.93
60.6	0.56	63.97	2.14	57.32	0.64
74.68	0.67	65.57	2.14	73.38	-1.51
77.22	2.08	67.94	0.11	95.48	-2.68
79.97	2.225	83.35	-4.05	113.58	0.67
80.97	2.23	102.21	0.31	115.39	1.46
82.74	0.53	119.83	0.56	127.61	3.04
91.7	-2.94	121.56	1.11	129.61	3.04
105.67	-0.51	143.97	1.84	135.41	2.49
125.35	0.03	167.57	1.82	136.41	-1.84
127.96	1.61			176.41	-1.64
137.96	2.13				
140.96	2.25				
STA 21		STA 22		STA 23	
0	1.05	0	2.35	0	0.76
31.79	1.64	26.79	1.89	77.11	1.52
56.77	1.86	67.98	1.88	120.71	1.86
59.15	1.86	71.04	1.88	128.16	1.86
59.95	0.48	71.94	0.7	128.96	0.46
73.07	-0.5	84.96	-0.38	140.96	-0.44
84.83	-2.28	93.86	1.94	151.96	-2.45
106.66	0.75	112.33	0.32	166.38	0.6
110.66	2.87	117.97	2.9	170.01	3.38
110.96	1.42	161.99	1.94	174.89	3
113.06	1.42	162.99	-1.26	175.89	0.003
113.36	2.88	168.99	-1.26	215.89	0.4
118.76	2.79	169.99	1.64		
119.76	-0.23	170.99	1.64		
159.76	-0.13	171.79	-1.46		
		191.79	-1.46		
STA 24		STA 25		STA 26	
0	0.44	0	0.9	0	1.88
35.77	1.22	34.19	1.65	31.8	1.87
56.72	1.88	54.95	2.14	52.9	2.3
58.3	2.16	57.15	2.27	55.3	2.3
62.13	0.95	59.47	0.41	57.09	1.41
75.55	0.06	95.99	-1.19	72.42	-0.93
89.48	-1.17	104.27	-1.15	93.7	-0.92
113.08	0.7	114.48	0.36	114.75	0.44
113.6	2.29	115.73	2.17	117.1	2.23
124.79	3.26	127.32	3.07	125.1	2.23
				127.1	2.56
				129.3	2.56



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 27		STA 28		STA 29	
0	1.93	0	1.85	0	1.74
56.31	2.42	33.71	1.86	18.8	2.04
60.81	2.16	53.58	2.45	56.78	2.17
63.46	0.88	57.33	2.44	60.3	0.05
73.03	0.36	60.98	1.15	72.7	-0.81
94.84	-1.22	71.12	-1.3	94.6	-1.07
106.99	0.08	94.39	0.6	120.68	0.45
110.29	2.56	117.66	0.6	123.78	1.9
120.49	2.39	120.95	1.82	139.88	2.03
144.49	2.49	137.78	2.08	177.68	2.2
		190.99	2.3		
STA 30		STA 31		STA 32	
0	0.82	0	2.01	0	0.91
25.57	1.67	49.98	2.77	15	0.91
51.51	2.51	51.98	2.77	17.99	2.41
54.11	2.51	53.13	0.63	22.39	2.54
58.44	0.31	67.47	-0.84	23.89	1.49
73.54	-0.43	78.58	-0.76	32.46	1.49
77.92	-0.31	89.69	-0.4	36.06	2.54
100.34	-0.62	106.86	0.74	42.98	2.55
104.69	1.85	109.91	1.7	43.58	2.55
119.89	2.27	116.34	2.49	44.08	0.74
157.89	2.28	119.94	3.39	48.02	-1.04
		124.94	2.97	63.09	-2.38
		127.94	-0.22	78.16	0
		142.94	-0.22	92.03	0.62
				95.82	0.81
				97.51	1.66
				122.95	1.65
STA 33		STA 34		STA 35	
0	0.75	0	-0.01	0	0
15	0.75	46.79	2.554	63.88	2.65
19.95	2.52	48.42	2.3	64.68	3.1
25.95	2.981	49.22	1.77	67.68	3.1
26.45	2.33	49.92	1.77	68.48	2.88
26.85	2.33	50.92	-0.83	79.86	3.19
27.85	2.93	55.16	-2.55	82.36	3.19
29.85	2.93	69.86	-3.6	85.04	1.24
30.35	0.43	84.56	-1.37	95.04	-1.26
35.05	-2.24	96.92	-0.6	118.94	0.09
47.81	-2.74	106.72	-0.2	138.08	0.63
60.57	0.2	110.83	0.61	138.45	2.23
69.66	0.76	119.87	0.89	176.51	3.33
74.31	1.11	149.87	1.27		
74.96	2.09				
109.77	2				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 36		STA 37		STA 38	
0	2.09	0	1.78	0	1.7
15	2.07	15	1.79	15	1.68
15.5	1.78	15.5	1.5	15.5	1.39
17.5	1.78	16.2	1.5	17.5	2.21
18.5	2.39	17.9	2.29	22.5	2.21
23.5	2.42	22.9	2.29	23.8	1.41
25	2.12	23.9	1.58	24.3	1.41
25.3	2.12	24.4	1.58	25	1.92
25.6	2.39	25.1	2.09	75	1.97
45.6	2.31	75.1	1.98	125	2.08
65.6	2.29	80.1	1.94	168	2.14
90.6	2.5	123.1	1.89	172.86	1.22
90.9	2.79	126.46	2.23	174.99	-1.33
91.5	2.79	128.97	1.27	188.44	-1.42
92.83	1.97	143.61	-0.41	201.89	-1.93
94.77	0.82	157.75	-1.2	214.34	-2.17
110.22	-0.67	170.89	-2.04	215.34	0.39
120.2	-2.16	171.89	-0.03	216.34	0.06
132.62	-1.72	173.06	1.87	219.47	2.02
133.62	0.36	183.06	2.3	227.48	2.28
134.87	2.4	186.06	-0.21	230.48	-0.16
136.85	2.68	211.06	-0.32	255.48	-0.42
139.85	0.16				
164.85	0.15				
STA 39		STA 40		STA 41	
0	2.06	0	1.82	0	-0.49
49.98	2.84	39.95	2.6	39.61	3.01
52.28	3.03	43.34	2.82	42.61	3.01
59.7	-0.08	45.34	2.82	44.87	1.86
72.79	-2.83	47.87	0.85	46.46	0.78
82.93	-1.48	59.71	0.81	58.9	-0.26
93.07	-0.08	71.66	0.17	70.58	-0.06
96.93	2.21	77.02	-0.41	93.97	0.08
103.95	3.13	94.16	0.01	102.97	3.35
169.95	3.03	99.31	3.44	139.57	3.19
		143.3	3.34		
STA 42		STA 43		STA 44	
0	-0.75	0	2.87	0	0.77
39.61	2.74	40	2.98	34.23	1.95
41.61	2.74	44.88	1.82	39.82	3.49
44.48	1.68	49.74	0.41	40.42	3.49
46.65	0.49	68.91	-1.4	41.42	1.04
58.9	-0.51	83.05	-0.92	51.42	-3.31
70.58	-0.3	97.19	-0.66	57.7	-1.81
93.97	-0.17	102.42	2.7	62.48	0.02
103.17	3.1	159.42	3.2	74.52	0.69
139.57	2.94			77.11	0.95
				87.27	2.41
				129.23	1.56



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 45		STA 46		STA 47	
0	1.74	0	2.78	0	2.51
3	3.95	15	2.78	15	2.55
5.5	3.95	19	4.28	19	4.81
8.7	3.95	22	4.28	22	4.81
9.98	2.76	25	2.78	24.34	2.79
12.72	2.34	41.9	2.77	57.96	2.4
18.7	0.24	66.9	2.31	77.92	2.99
23.7	-2.76	69.58	0.72	82.09	0.94
45.22	0.94	81.33	-0.12	93.51	1.2
69.2	0.6	94.6	-0.31	109.44	-0.55
76.7	1.01	119.75	0.95	129.05	0.59
80.4	2.61	123.87	3.4	133.3	3.36
145.43	2.02	186.83	4.13	177.89	2.74
STA 48		STA 49		STA 50	
0	2.63	0	3.11	0	1.59
22.38	2.63	29.29	3.11	47.06	1.59
23.18	3.13	30.09	3.1	48.06	3.35
25.98	3.13	32.59	3.1	50.56	3.5
26.78	2.62	69.59	3.14	51.56	3.15
53.58	2.62	95.98	3.76	79.96	3.15
79.98	2.33	100.2	0.91	99.94	4.17
84.65	1.81	115.01	-0.47	102.14	4.17
87.75	0.27	125.38	-0.15	103.14	1.47
101.53	0.11	147.65	0.8	117.02	-0.47
114.65	-0.51	151.49	2.54	126.23	-0.51
136.77	0.13	215.92	1.6	139.6	0.47
138.55	3.25			154.81	1.34
219.95	3.1			159.28	2.32
				219.91	2.4
STA 51		STA 52		STA 53	
0	2.96	0	2.79	0	3.45
42.19	2.96	56.29	2.79	44.01	3.45
42.99	3.14	57.09	3.56	44.71	3.88
44.99	3.14	59.59	3.56	48.01	3.88
45.99	3.44	60.59	3.34	48.51	4.08
79.98	3.9	79.98	3.4	63.92	4.08
82.28	3.9	80.48	0.7	80.48	4.13
82.58	1.1	93.46	-0.38	81.48	1.43
94.29	-0.04	109.94	-0.17	92.18	-0.29
107.38	0.26	130.35	0.52	107.9	0.42
134.16	0.96	138.31	2.23	135.69	1.12
139.9	2.44	179.87	1.45	143.44	2.63
199.92	2.19		2.79	200.46	2.38



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 54		STA 55		STA 56	
0	2.77	0	2.45	0	3.12
31.39	2.77	50.2	2.45	40.3	3.12
32.09	3.74	50.9	3.55	40.8	2.58
34.09	3.74	52.9	3.55	41.3	2.58
34.59	3.47	53.4	3.31	42	3.38
62.09	3.47	72.48	3.31	43.6	3.38
79.48	3.59	99.46	3.5	80	3.76
82.07	1.34	100.96	3.5	88.04	3.05
108.9	-0.23	105.39	2.1	93.2	0.78
140.19	0.57	108.01	0.5	111.57	0.14
145.41	2.46	129	-0.09	138.42	0.83
199.45	3.48	154.57	0.56	142.56	3.54
		160.8	2.45	239.97	3.03
		219.43	3.35		
STA 57		STA 58		STA 59	
0	3.03	0	3.3	0	3.24
34.09	3.34	10	3.3	10	3.24
36.59	3.34	10.5	2.77	10.5	3.59
71.58	3.63	11	2.77	13	3.59
99.98	3.6	11.5	3.47	95.38	3.45
104.86	3.15	13.5	3.742	99.98	3.12
109.75	1.23	13.8	3.44	103.31	2.1
129.55	0.18	59.5	3.44	107.78	-0.46
151.12	1.05	71.5	3.21	124.73	-0.13
157.95	3.82	74.44	0.73	151.91	2.71
187.96	3.93	93.62	-0.06	155.14	3.47
190.56	4.53	114.79	0.83	199.14	2.02
193.56	4.53	119.47	3.84	201.54	2.97
196.06	3.03	140.48	3.57	205.54	2.97
206.06	3.03	142.88	4.3	208.54	0.47
		145.88	4.3	218.54	0.47
		148.88	1.8		
		158.88	1.8		
STA 60		STA 61		STA 62	
0	4.23	0	3.84	0	3.42
32.8	3.39	10	3.84	12.8	3.63
33.1	3.39	11	4.02	13.5	4.01
34.6	4.29	12.3	4.02	14.8	4.01
34.9	3.39	12.9	3.91	15.2	3.64
92.59	4.42	109.91	3.41	112.8	3.43
109.98	3.73	148.9	3.32	123.14	2.87
113.5	3.67	152.16	2.52	126.06	0.2
118.24	1.43	155.61	0.85	143.88	0.03
134.95	0.56	169.1	0.31	155.57	-0.43
152.82	0.14	183.51	-0.36	166.33	-0.15
155.96	4.59	197.04	-0.15	176.4	4.11
213.43	5.17	200.3	4.02	204	4.24
221.43	4.91	212.9	3.99	229	4.38
225.43	4.91	252.3	3.97		
228.43	1.91				
238.43	1.91				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 63		STA 64		STA 65	
0	4.67	0	4.65	0	0.53
26.19	4.09	27.6	4.38	10	0.53
26.59	4.44	99.99	4.72	13.48	6.45
27.89	4.44	101.99	3.35	18.06	6.35
28.29	3.95	148.5	3.32	23.59	4.02
113.07	3.95	155.87	1.28	129.59	3.34
121.47	2.92	172.43	0.89	134.68	0.93
125.84	0.9	183.82	0.58	150.61	0.38
133.64	0.6	204.9	1.45	167.93	0.3
145.45	-0.32	206	4.87	185.86	1.18
165.68	0.81	295.6	3.71	186.8	3.92
170.38	4.4	299.6	3.71	212.55	4.69
194.94	4.12			219.27	6.45
195.56	4.79			222.59	6.68
197.15	4.85			223.06	0.8
198.16	4.65			225.06	0.8
208.16	4.65			229.06	0.8
STA 66		STA 67		STA 68	
0	0.6	0	3.64	0	3.07
10	0.6	10	3.64	10	3.07
14.06	6.75	15.7	6.42	14.56	5.92
19.06	6.5	19.03	6.374	19.38	6.32
25.21	4.12	21.67	5.91	20.38	6.32
76	3.33	116.4	3.18	21.38	6.32
125.99	3.17	119.35	1.67	29.02	3.76
129.51	1.42	124.95	1.22	96.64	3.55
138.92	0.48	160.93	2.18	104.24	1.24
152.74	0.05	162.95	3.32	116.81	0.34
175.46	1	171.01	5.83	142.99	0.82
176.18	4.08	176.02	6.58	148.22	2.87
183.52	5.03	180.52	3.9	158.55	5.12
186.48	6.27	183.41	3.9	161.57	6.32
190.28	6.6	187.41	3.9	226.17	6.8
193.99	0.7			229.67	3.4
195.99	0.7			239.67	3.4
199.99	0.7				
STA 69		STA 70		STA 71	
0	4.21	0	2.75	0	3.29
10	4.21	10	2.75	10	3.29
16	6.68	18.77	6.91	15.4	7.07
19.98	6.53	21.64	7	18.85	7.11
21.18	6.53	22.94	7	19.85	7.11
25.38	4.26	28.88	4.35	26.95	4.47
68.4	4.18	48.14	4.32	42.72	4.32
81.46	0.3	59.25	0.42	49.76	0.37
96.06	0.28	69.52	-0.35	72.9	0.03
116.35	0.61	113.17	-0.76	83.03	0.15
122.86	5.28	120.51	3.16	93.02	3.34
148.38	3.03	150.01	4.36	145.4	5.32
154.38	0.03	156.04	6.44	151.44	6.58
164.38	0.03	159.84	6.6	156.44	6.66
0	4.21	165.84	2.4	163.14	2.66
		175.84	2.4	173.14	2.66



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 72		STA 73		STA 74	
0	3.59	0	3.43	0	4.01
10	3.59	10	3.43	10	4.01
15.78	7.02	13.58	7.48	14.61	7.15
19.84	7.38	17.32	7.475	19.11	7.23
27.29	4.16	21.32	5.09	25.95	4.08
37.68	4.09	36.52	3.58	58.23	2.97
43.4	1.43	43.92	0.44	64.35	0.23
60.46	0.19	61.72	0.56	80.31	0.08
79.79	0.73	78.51	0.8	99.49	0.58
86.18	3.21	85.04	3.37	104.33	3.91
143.78	4.64	143.65	4.34	145.51	5.03
151.23	6.93	151.14	6.58	152.52	6.78
157.24	6.96	155.14	6.67	156.52	6.81
164.24	3.06	162.64	2.77	164.02	3.21
174.24	3.06	172.64	2.77	174.02	3.21
STA 75		STA 76		STA 77	
0	3.63	0	4.37	0	3.92
10	3.63	10	4.37	10	3.92
15.79	7.2	12	6.92	14.67	7.25
20.15	7.17	17.57	7.24	19.23	7.37
30.07	3.55	27.65	3.99	25.76	4.27
69.88	3.05	70.18	2.77	61.71	4.21
77.02	0.37	73.95	0.42	63.2	0.77
89.79	-0.19	90.59	0.08	89	0.26
109.66	0.28	99.55	-0.44	96.92	0.27
115.66	4.14	102.77	0.94	107.23	3.27
147.73	5.02	115.82	3.54	142.98	4.29
153.76	7.03	146.93	5.88	150.83	7.3
157.56	7.16	149.18	7.08	155.03	7.36
160.14	3.71	153.38	7.04	159.23	5.11
170.14	3.71	156.17	5.06	169.23	5.11
		166.17	5.06		
STA 78		STA 79		STA 80	
0	4.61	0	4.73	0	4.78
2	4.61	2.4	4.73	2.3	4.78
4.3	6.47	3.2	6.39	3	6.45
8.3	6.465	5	6.39	4.3	6.45
9.46	8.15	7.85	6.37	8.28	6.86
9.96	5.9	8.85	7.77	8.68	7.57
13.75	5.9	9.35	5.63	9.18	5.39
15.78	5.35	10.8	5.63	10.65	5.39
44.35	5.69	23.42	5.25	19.66	5.31
46.15	5.69	42.4	5.14	42.25	5.43
50.82	1.2	46.08	0.77	50	0.38
67.76	0.71	58.55	0.12	65.83	0.06
83.76	1.42	79.76	0.8	88.42	0.44
89.93	2.99	84.32	3.02	96.16	3.79
134.34	5.05	136.98	4.74	137.85	4.62
142.32	7.76	142.36	7.28	138.25	5.68
146.32	7.79	145.55	7.18	142.82	7.49
148.94	6.29	150.35	6.25	147.82	7.56
150.44	6.29	151.15	6.25	149.43	6.03
		155.15	6.25	160.23	6.27



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 72		STA 73		STA 74	
0	3.59	0	3.43	0	4.01
10	3.59	10	3.43	10	4.01
15.78	7.02	13.58	7.48	14.61	7.15
19.84	7.38	17.32	7.475	19.11	7.23
27.29	4.16	21.32	5.09	25.95	4.08
37.68	4.09	36.52	3.58	58.23	2.97
43.4	1.43	43.92	0.44	64.35	0.23
60.46	0.19	61.72	0.56	80.31	0.08
79.79	0.73	78.51	0.8	99.49	0.58
86.18	3.21	85.04	3.37	104.33	3.91
143.78	4.64	143.65	4.34	145.51	5.03
151.23	6.93	151.14	6.58	152.52	6.78
157.24	6.96	155.14	6.67	156.52	6.81
164.24	3.06	162.64	2.77	164.02	3.21
174.24	3.06	172.64	2.77	174.02	3.21
STA 75		STA 76		STA 77	
0	3.63	0	4.37	0	3.92
10	3.63	10	4.37	10	3.92
15.79	7.2	12	6.92	14.67	7.25
20.15	7.17	17.57	7.24	19.23	7.37
30.07	3.55	27.65	3.99	25.76	4.27
69.88	3.05	70.18	2.77	61.71	4.21
77.02	0.37	73.95	0.42	63.2	0.77
89.79	-0.19	90.59	0.08	89	0.26
109.66	0.28	99.55	-0.44	96.92	0.27
115.66	4.14	102.77	0.94	107.23	3.27
147.73	5.02	115.82	3.54	142.98	4.29
153.76	7.03	146.93	5.88	150.83	7.3
157.56	7.16	149.18	7.08	155.03	7.36
160.14	3.71	153.38	7.04	159.23	5.11
170.14	3.71	156.17	5.06	169.23	5.11
		166.17	5.06		
STA 78		STA 79		STA 80	
0	4.61	0	4.73	0	4.78
2	4.61	2.4	4.73	2.3	4.78
4.3	6.47	3.2	6.39	3	6.45
8.3	6.465	5	6.39	4.3	6.45
9.46	8.15	7.85	6.37	8.28	6.86
9.96	5.9	8.85	7.77	8.68	7.57
13.75	5.9	9.35	5.63	9.18	5.39
15.78	5.35	10.8	5.63	10.65	5.39
44.35	5.69	23.42	5.25	19.66	5.31
46.15	5.69	42.4	5.14	42.25	5.43
50.82	1.2	46.08	0.77	50	0.38
67.76	0.71	58.55	0.12	65.83	0.06
83.76	1.42	79.76	0.8	88.42	0.44
89.93	2.99	84.32	3.02	96.16	3.79
134.34	5.05	136.98	4.74	137.85	4.62
142.32	7.76	142.36	7.28	138.25	5.68
146.32	7.79	145.55	7.18	142.82	7.49
148.94	6.29	150.35	6.25	147.82	7.56
150.44	6.29	151.15	6.25	149.43	6.03
		155.15	6.25	160.23	6.27





**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 81		STA 82		STA 83	
0	4.64	0	6.25	0	5.13
4.5	4.64	5	6.25	1.8	5.13
8.28	5.66	9.42	6.99	2.4	6.5
10.88	6.5	11.62	7.17	6.18	6.82
13.71	6.72	12.22	7.9	7.38	7.74
14.31	7.58	12.72	5.54	7.63	7.74
14.81	5.73	13.8	5.54	7.88	5.57
17.81	5.73	27.2	5.58	64.45	5.3
47.41	5.4	52.2	5.73	69.28	4.27
59.53	3.6	55.48	4.89	75.52	3.48
65.57	1.37	69.11	3.72	79.12	1.31
77.82	0.62	79.19	0.39	86.75	0.53
101.09	-1.41	87.57	0.16	99.78	-0.57
104.35	-0.39	102.55	-0.44	113.4	0.61
113.71	0.61	115.16	0.59	118.99	4.02
116.2	2.14	117.41	1.87	126.43	4.63
120.06	3.11	139.61	5.83	130.44	7.05
120.74	4.09	142.21	7.23	137.24	7.39
145.38	4.51	147.81	7.23	140.8	5.48
151.97	7.38	148.41	6.41	142.8	5.48
154.97	7.33	150.41	6.41	146.8	5.48
155.97	5.36				
158.97	5.36				
STA 84		STA 85		STA 86	
0	4.36	0	3.88	0	3.94
4.15	4.36	3.68	3.61	30	3.74
5.65	6.88	4.98	5.68	31.51	5.72
7.95	6.77	8.28	7.95	32.01	5.72
10.85	6.77	11.28	7.95	35.24	7.99
11.35	7.707	21.91	0.56	38.24	7.99
11.6	7.71	35.54	0.02	42.74	4.88
11.85	5.11	56.12	0.79	55.43	4.7
31.32	3.52	61.5	4.01	60.19	0.47
44.64	0.6	92.09	4.3	73.25	0.17
57.14	0.46	102.65	7.74	84.77	0.55
75.32	0.27	107.65	7.74	97.47	4.23
85.82	4.23	110.15	6.1	125.04	4.85
110.91	5.54	112.65	4.1	135.22	7.87
117.94	7.6	122.65	4.1	140.22	7.87
121.34	6.58			142.22	6.19
127.34	3.08			145.22	4.69
139.34	3.08			155.22	4.29



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 87		STA 88		STA 89	
0	4.06	0	3.54	0	2.23
5.46	3.74	0.9	3.54	11.59	4.21
7.96	5.74	2.2	5.94	17.24	8.351
8.26	5.74	2.7	5.94	18.04	8.14
10.02	8.06	6.35	7.92	22.04	8.14
14.32	8.327	10.85	8.23	24.97	5.78
15.02	8.06	11.95	7.98	43.86	3.91
19.91	5.21	16.56	5.09	49.75	0.4
23.84	4.69	26.97	4.23	68.54	0.3
31.45	0.14	32.87	0.69	85.68	1.09
48.39	0.46	47.41	0.3	94.32	4.41
63.21	1.31	67	1.34	101.89	4.87
71.25	3.95	74.54	4.19	110.01	8.03
98.7	4.87	96.05	5.36	114.91	8.03
106.25	7.87	103.21	7.9	117.41	6.62
111.25	7.87	108.21	7.9	120.41	5.12
113.75	6.37	110.79	6.49	130.41	4.92
116.75	4.87	113.79	4.99		
126.75	4.67	123.79	4.59		
STA 90		STA 91		STA 92	
0	4.8	0	3.82	0	4.46
7.01	5.85	10.11	4.59	4.9	4.46
9.82	8.39	11.23	6.64	6.2	6.62
13.62	8.736	11.73	8.23	6.7	6.62
14.42	8.39	14.35	8.52	7.67	7.6
19.09	4.9	19.43	5.51	9.17	7.85
32.85	4.02	25.95	3.88	12.37	7.85
36.73	0.76	31.77	1.69	16.73	4.75
53.71	0.14	33.65	1.69	22.61	3.02
74.73	1.45	34.65	0.89	26.02	0.94
82.29	4.24	35.65	0.89	45.83	-0.07
99.41	5.22	47.54	0.02	63.24	1.52
105.99	8.14	68.29	1.12	79.01	4.19
110.99	8.14	88.54	4.94	86.54	8.57
113.49	6.64	121.29	5.29	141.74	7.32
116.49	4.64	134.39	8.44	147.74	8.62
126.49	2.54	138.39	8.44	152.74	8.62
		139.39	7.91	158.24	5.32
		143.89	4.91	168.24	5.12
		153.89	1.91		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 93		STA 94		STA 95	
0	5.07	0	5.11	0	5.43
3.13	5.07	10.76	5.77	10	5.43
3.63	5.32	15.36	8.6	14.33	8.51
10.28	5.32	19.42	8.51	18.67	8.48
11.58	7.25	26.42	5.24	25.06	6.34
12.08	8.519	47.38	4.73	69.24	3.65
14.91	8.3	53.65	3.01	78.61	0.54
18.22	8.22	58.88	0.45	95.08	0.32
21.16	6.29	78.29	-0.11	106.55	0.63
29.38	4.51	88.71	0.89	114.06	0.63
32.93	1	98.74	4.68	121.57	4.46
47.13	0.63	107	6.46	145.55	4.85
65.77	0.93	157.97	5.62	154.38	8.51
81.78	3.57	162.43	8.46	158.78	8.88
92.66	4.32	167.43	8.57	161.58	6.08
102.85	8.14	175.43	5.68	166.58	6.08
110.24	8.14	185.43	5.68		
112.24	7.26				
170.83	7.12				
174.24	8.82				
178.24	8.82				
183.74	5.62				
193.74	5.32				
STA 96		STA 97		STA 98	
0	8.9	0	5.6	0	5.63
8.57	9.2	5.6	5.6	2.4	5.63
13.17	12.5	9.15	8.47	6.13	8.66
16.62	12.44	13.71	8.74	11.01	8.86
21.92	10.53	17.19	6.94	17.75	6.44
63.63	7.5	56.13	4.44	45.82	4.12
69.39	4.45	61.04	2.87	51.65	1.42
85.61	4.1	62.51	0.64	61.27	0.45
99.89	4.03	78.69	0.46	71.62	-0.03
101.79	6.11	93.91	0.33	89.51	0.47
106.42	8.3	102.46	4.68	96.22	4
110.59	9.39	112.14	4.85	116.08	5.34
126.65	12.04	120.48	8.17	123.18	8.37
133.65	12.19	125.69	8.28	128.6	8.43
136.55	9.29	135.66	5.18	132.96	5.43
137.55	9.29	136.66	5.18	138.46	5.43
				142.46	5.43



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 99		STA 100		STA 101	
0	5.71	0	5.64	0	3.17
3.5	5.71	4.5	5.64	8.35	6.34
7.33	8.65	10.53	8.46	12.42	8.7
11.49	9.177	14.02	8.85	17.86	9.32
12.29	8.92	19.53	6.76	21.77	7.86
16.19	6.99	41.52	5.62	50.61	7.16
42.37	4.62	53.78	2.35	53.01	5.36
49.02	2.22	56.85	0.43	60.93	5.36
50.57	0.82	69.14	0.26	65.87	7.55
70.88	0.47	77.67	0.22	71.63	7.55
86.56	0.68	86.83	0.8	74.23	4.94
94.77	4.56	92.11	3.58	88.55	4.94
109.33	5.21	95.85	4.21	91.35	5
116.48	8.39	96.35	6.05	97.1	1.91
123.08	8.41	102.35	5.81	98.34	0.71
126.68	5.87	104.85	7.85	108.5	1
128.68	5.87	110.05	8.26	125.41	1.1
132.68	5.87	110.65	8.74	131.19	0.33
		112.15	4.74	131.69	6.11
		113.15	4.74	139.77	6.69
		117.15	4.74	143.03	8.28
				146.42	8.01
				148.62	7.46
				150.62	5.58
				151.62	5.58
				155.62	5.58
STA 102		STA 103		STA 104	
0	5.71	0	3.12	0	7.17
1.5	5.71	7.3	5.79	10	7.17
7.54	9.48	14.38	9.21	14.31	9.01
12.27	9.32	17.94	9.24	18.75	9.27
13.67	9.48	19.24	9.24	24.59	5.93
15.17	8.01	25.3	6.31	27.17	5.12
53.81	6.15	52.29	5.07	28.37	1.78
56.21	2.95	53.59	3.59	37.41	1.78
69.82	2.95	64.46	3.59	38.61	4.69
73.5	5.26	65.35	4.5	46.49	4.02
88.05	2.71	103.3	1.73	68.75	0.59
91.45	1.5	105.26	0.75	79.36	1.08
103.77	0.61	122.2	0.48	97.54	0.48
121.77	0.38	129.37	0.68	104.58	5.81
125.86	4.89	133.44	2.2	112.7	8.3
138.12	5.73	137.43	2.52	120.11	8.79
144.44	8.3	141.44	7.08	123.5	5.64
150.26	8.91	147.1	8.85	127	5.64
159.34	5.11	151.5	8.93		
163.14	5.11	155.3	6.59		
167.14	5.11	158.17	6.59		
		162.17	6.59		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 105		STA 106		STA 107	
0	6.63	0	7.82	0	6.07
10	6.63	10	7.82	4	6.07
15.84	8.82	12.58	9.01	7	6.07
21.08	8.98	17.07	8.9	7.8	6.07
22.28	8.98	24.15	6.06	11.59	8.6
26.2	6.21	31.74	5.1	13.47	8.74
47.57	4.53	37.41	1.04	19.07	5.19
55.12	0.55	46.25	0.68	32.17	3.11
77.74	0.72	57.68	1.07	32.67	2.89
82.26	0.21	65.42	4.12	33.27	2.66
86.19	3.9	106.3	5.55	38.28	-0.66
117.99	6.76	116.41	8.69	43	0.18
121.67	8.95	121.42	8.59	51.66	0.78
126.67	8.97	124.62	6.32	57.97	4.16
129.47	6.35	134.62	6.32	101.68	5.63
139.47	6.35			108.02	8.71
				111.82	8.59
				114.22	6.49
				124.22	6.49
STA 108		STA 109		STA 110	
0	6.1	0	4.56	0	6.68
4	6.1	0.6	4.56	10	6.68
5.05	8.59	9.17	8.63	11.4	8.61
5.55	8.59	9.57	8.63	11.8	8.61
7.44	9.34	13	8.69	13.03	8.86
10.82	9.11	17.94	6.24	14.26	8.86
17.98	5.79	24.96	6.27	16.66	8.86
24.83	5.68	25.46	5.46	19.67	6.8
32.39	1.15	34.17	5.46	26.04	6.4
43.51	0.58	42.52	1.46	26.54	7.12
50.79	0.59	50.32	0.4	26.74	2.77
58.99	0.91	61.71	0.93	40.92	1
60.64	2.93	70.8	4.75	48.32	1.19
68.42	5.01	97.12	6.75	56.1	1.05
102.65	5.67	103.4	9.51	60.88	1.84
104.35	7.56	108.6	9.73	63.68	4.2
105.99	7.82	110.8	7.09	95.79	6.32
108.8	9.48	120.8	7.09	96.19	7.37
111.8	9.35			100.28	8.3
114.2	6.73			102.29	10
124.2	6.73			106.28	10.16
				108.69	7.86
				118.69	7.86



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 111		STA 112		STA 113	
0	6.17	0	7.24	0	6.31
10	6.17	5.6	7.24	3.8	6.31
11.39	8.12	8.93	9.24	5.48	8.95
11.79	8.12	14.01	9.52	5.78	8.95
15.87	9.33	19.33	6.82	9.88	9.594
16.87	9.33	29.23	5.27	10.38	9.34
21.07	9.19	34.45	2.59	14.3	3.31
26.21	5.89	39.03	0.8	16.6	3.31
38.27	3.63	47.74	0.56	18.02	1.94
47.81	0.52	59.19	0.1	22.8	0.23
54.39	0.68	62.89	0.44	31	0.47
69.48	0.84	69.06	4.06	38.23	0.52
72.67	3.69	76.76	5.31	45.63	0.9
112.91	5.54	77.76	6.13	53.26	3.43
113.53	6.55	114.34	6.54	97.3	5.31
119.25	8.02	120.99	9.62	98.25	6.31
122.46	10.54	124.2	9.56	110.3	8.01
126.66	10.42	126.8	7.23	115.12	9.7
129.26	8.2	136.8	7.23	120.52	9.95
139.26	8.2			122.12	6.85
				132.12	6.85
STA 114		STA 115		STA 116	
0	5.83	0	6.8	0	7.79
10	5.83	10	6.8	5	7.79
11.34	8.64	14.02	9.49	11.51	11.23
11.64	8.64	19.32	9.83	17.61	11.45
18.62	9.56	22.2	9.52	18.61	11.45
20.51	9.01	24.2	7.13	22.69	8.64
25.31	3.99	37.6	5.38	25.58	5.94
34.85	1.16	46.58	0.92	66.64	5.01
44.45	0.53	61.47	0.37	76.04	1.97
51.39	0.5	74.69	0.49	86.33	-0.23
61.58	0.61	81.1	4.78	109.38	0.6
70.3	3.52	103.87	6.81	111.57	2.04
110.1	6.65	107.56	8.94	127.2	5.03
115	9.42	112.18	8.91	134.4	9.91
119	9.61	114.68	5.31	137.6	9.76
121.6	6.71	124.68	5.31	139.59	7.79
131.6	6.71			143.59	7.79



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 117		STA 118		STA 119	
0	6.67	0	6.57	0	7.2
8.5	6.67	10	6.57	7	7.2
11.34	8.14	15.4	9.22	7.96	9.1
12.54	8.14	18.66	9.46	14.05	9.96
14.04	9.74	21.88	8.83	16.92	9.68
19.48	10.26	27.24	5.54	20.37	7.95
20.48	10.01	35.05	4.92	27.65	7.02
25.67	7.23	43.05	0.86	30.92	5.76
25.8	5.45	50.9	1.08	38.76	4.88
55.28	5.07	62.43	0.02	45.94	1.38
62.17	1.29	86.01	5.89	53.71	0.15
76.01	0.73	92.91	7.18	66.99	1.08
90.01	-0.15	97.31	9.89	70.63	1.99
106.53	1.15	101.71	9.61	76.05	4.87
121.06	6.46	108.91	7.24	92.98	8.48
126.48	8.94	113.91	7.24	98.46	10.02
129.31	9.66			103.66	9.8
131.68	7.72			106.46	7.76
136.68	7.72			111.46	7.76
STA 120		STA 121		STA 122	
0	7	0	7.9	0	6.93
10	7	3.45	8.67	3.5	6.93
15.16	9.27	4.77	9.74	4.68	7.77
18.73	10.34	5.17	9.74	9	7.98
22.32	9.39	7.38	9.74	9.99	9.49
47.89	6.78	7.88	10.62	10.29	9.49
51.67	4.33	8.88	10.847	11.47	9.49
53.76	2.48	9.78	10.62	12.27	9.97
70.91	0.79	10.38	9.77	14.86	10.48
74.85	0.19	11.95	9.77	19.25	10.21
76.14	0.37	14.69	8.34	23.23	8.07
84.54	2.38	15.58	8.53	38.37	7.31
92.15	6.21	17.21	7.6	39.49	5.02
96.91	9.2	18.99	7.6	49.49	5.02
101.9	8.74	19.49	6.85	50.49	0.77
106.9	6.46	33.25	4.59	61.68	0.77
		35.11	2.88	79.75	1.21
		37.71	1.36	84.72	3.96
		39.48	1.08	92.39	6.23
		55.71	1.23	99.91	6.23
		70.86	5.33	100.41	6.56
		78.14	6.82	130.41	6.56
		78.85	7.84	133.25	10.27
		108.27	9.76	140.25	10.05
		116.86	10.76	142.25	8.45
		121.26	8.35	147.25	8.45
		125.26	8.35		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 123		STA 124		STA 125	
0	7.98	0	7.33	0	9.05
3.6	7.98	10	7.33	5.64	9.15
6.43	10.37	14.54	10.43	8.98	11.352
10.54	10.45	18.09	10.39	13.81	11.12
11.64	10.45	19.89	10.39	21.55	12.07
16.39	7.31	21.91	8.17	24.05	9.16
37.93	6.77	26.74	7.81	27.41	9.16
53.41	4.09	28.74	6.28	50.42	7.45
55.21	0.62	38.63	5.97	56.27	5.1
70.58	0.66	47.95	4.45	67.36	2.27
82.58	0.62	49.45	0.92	76.29	1.04
86.76	3.51	69.94	0.63	79.32	1.31
91.33	6.19	76.21	0.92	84.61	2.79
109.91	8.33	81.73	3.89	93.21	6.78
120	9.64	84.34	3.89	102.01	6.9
127.2	10.56	85.34	5.82	104.39	11.67
131.2	9.86	94.96	5.82	106.89	11.61
132.1	9.86	95.46	7.08	107.29	10.51
132.9	9.06	102.47	10.16	108.19	7.51
142.9	9.06	110.68	10.47	118.19	7.51
		111.68	9.97		
		112.08	9.97		
		112.88	7.17		
		114.88	7.17		
STA 126		STA 126.5		STA 126.58	
0	9.29	0	8.97	0	8.83
3.4	9.29	3	8.97	5.39	11.38
9.14	11.37	6.95	11.55	20.56	11.1
16.46	11.22	21.46	11.662	26.15	8.17
23.97	8.91	27.73	8.81	31.04	8.16
29.69	7.09	31.93	8.39	39.84	2.21
48.69	5.81	34.63	6.59	96.98	1.9
65.53	1.11	36.63	6.59	105.52	7.87
77.82	0.89	42.29	2.41	110.89	8.12
94.99	1.31	73.45	0.42	121.3	10.84
103.55	6.69	96.91	0.41	123.7	10.84
125.55	7.68	100.27	6.26	127.3	10.45
128.9	10.68	103.07	6.26		
139.11	10.71	106.27	7.85		
141.81	9.21	112.97	8.61		
142.21	9.21	125.66	11.09		
143.11	6.91	136.46	10.86		
147.11	6.91	138.86	9.46		
151.11	6.91	139.26	9.46		
		140.16	7.96		
		146.16	7.96		
		150.16	7.96		





**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 127		STA 127.49		STA 128	
0	10.59	0	11.737	0	9.01
3.5	10.59	2.34	12.05	16	9.44
4.05	11.77	6.04	12.05	21	11.62
7.55	11.77	6.83	10.28	27.97	11.67
26.39	11	32.12	7.48	30.36	11.73
32.44	8.8	55.25	6.05	38.19	8.26
61.6	6.26	62.76	3.36	73.57	9.21
68.32	3.79	66.94	3.08	76.93	2.38
84.93	2.09	68.69	2.45	99.97	1.23
97.39	2.36	93.83	-0.81	111.47	1.84
103.18	5.8	100.45	2.51	117.19	4.75
110.91	6.39	108.09	7.06	118.01	7.41
113.66	8.45	119.49	7.84	122.74	8.22
125.73	9.2	126.6	10.44	125.92	10.67
129.98	11.21	127.57	10.67	138.29	10.72
134.65	11.15	128.36	12.25	141.49	10.7
139.15	9.95	132.06	12.25	142.29	8.7
140.15	9.95				
140.55	9.95				
141.35	8.45				
151.35	8.45				
STA 129		STA 129.76		STA 130	
0	7.4	0	13.07	0	12.01
12.91	8.97	3	13.07	0.2	12.05
17.91	11.45	3.45	11.61	9.17	11.87
23.78	11.38	5	11.61	12.37	12.66
32.2	9	13.23	11.59	19.92	10.39
47.27	6.47	20.89	10.08	25.08	9.66
56.46	2.38	44.61	7.23	30.83	6.9
71.24	1.41	53.91	2.13	40.3	7
82.8	1.91	62.82	1.73	49.91	2.45
93.05	5.17	63.72	1.56	70.03	2.3
107.56	5.65	70.4	1.56	70.33	1.87
110.46	6.26	85.07	2.05	72.62	1.23
119.56	5.9	97.43	6.51	77.26	6.13
127.78	8.36	103.21	7.48	84.21	5.26
130.91	10.57	107.99	8.43	92.15	12.08
133.91	10.5	110.64	10.06	118.75	12.29
136.91	9.86	125.14	10.98	126.75	11.68
138.71	9.66	126.69	11.68		
		127.14	13.07		
		130.14	13.07		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 131		STA 132		STA 132.71	
0	10.94	0	8	0	8.47
3.97	11.82	4.93	8.35	38.18	8.87
7.35	11.48	9.54	11.51	46.74	8.89
13.03	10.72	12.63	11.26	52.7	11.11
16.76	8.39	13.88	11.08	59.83	11.51
35.4	6.58	16.1	8	68.01	8.85
43.05	3.94	27.75	6.85	71.72	6.04
43.74	2.58	35.45	6.09	77.57	6.57
59.47	1.33	47.45	2.86	82.63	2.7
75.12	0.87	52.55	2.1	102.43	1.96
77.98	1.87	73.79	2.75	122.23	2.68
86.38	3.73	80.59	3.03	126.19	4.29
88.17	4.77	94.25	3.79	139.86	8.16
105.38	11.49	104.96	7.06	166.08	10.9
111.42	11.27	107.84	7.85	184.08	11.08
117.46	8.38	111.76	10.89	206.08	11.58
135.36	7.91	120.37	11.69	212.08	8.58
163.75	7.71	125.35	11.69	222.08	7.58
		131.35	8.69		
		141.35	8.09		
STA 133		STA 134		STA 135	
0	8.86	0	3.52	0	8.59
6.39	8.13	20.31	8.46	2.37	8.42
11.03	9.8	23.55	8.67	6.84	11.36
15.72	11.16	25.08	11.41	11.47	11.54
17.72	10.99	28.31	11.84	12.67	12.03
22.97	7.71	31.37	11.43	21.1	8.86
32.79	6.56	36.57	9.05	25.05	8.51
39.65	6.07	42.55	8.71	26.59	5.85
42.12	2.93	48.6	4.07	34.49	3
58.9	1.07	50.52	2.16	39.72	1.1
62.22	2.09	75.35	1.55	54.96	1.04
64.5	4.22	78.32	1.39	59.78	5.69
76.35	6.7	79.71	6.04	69.41	10.07
82.12	7.67	81.18	6.76	82.7	8.33
90.82	9.16	90.88	6.78	92.86	11.02
97.72	11.37	107.31	9.91	97.87	12.5
99.32	10.65	114.76	12.62	104.07	11.88
106.92	11.45	117.55	13.47	114.87	11.55
107.32	11.39	158.94	11.02	137.07	11.61



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 136		STA 137		STA 138	
0	8.53	0	7.44	0	8.22
8.84	8.92	6.55	8.47	5.04	8.81
12.05	11.5	9.45	11.23	7.9	11.27
14.48	11.24	12.11	11.37	12.8	11.33
18.02	8.48	15.73	11.02	18.53	9.72
23.64	9.04	19.52	7.65	24.25	7.23
26.77	5.85	36.06	3.53	33.54	6.15
40	2.42	40.41	1.62	37.24	5
57.66	1.02	48.55	1.16	40.04	2.55
60.17	1.2	61.93	2.35	43.89	2.69
64.16	5.51	64.56	5.26	65.72	2.42
68.18	7.33	89.06	8.03	65.82	4.07
78.82	7.11	103.09	8.73	71.19	6.56
102.88	9.08	106.1	10.34	73.36	7.17
104.93	12.34	109.5	12.27	88.63	8.44
106.94	12.7	113.1	12.51	89.8	11
108.72	12.73	115.5	11.72	96.4	11.96
117.94	12.09	130.15	11.22	101.4	12.13
				105.8	11.51
				110.2	11.68
STA 139		STA 140		STA 141	
0	7.64	0	9.05	0	7.33
9.66	8.46	9.68	9.03	6.51	8.81
15.55	11.92	13.52	11.78	7.23	11.5
21.14	11.89	18.56	11.69	13.34	11.6
22.54	10.59	24.39	11.5	14.94	10.4
25.43	9.91	25.28	9.59	22.94	9.73
28.75	9.58	32.51	7.69	24.56	7.91
32.22	7.51	37.66	6.71	25.04	4.8
41.99	7.44	46.08	2.11	46.82	2.83
50.52	3.94	64.39	2.48	53.22	2.44
51.35	1.91	72.07	2.05	63.54	6.3
54.46	2.4	75.44	4.62	75.83	7.17
78.73	2.4	90.19	7.19	103.45	8.07
80.05	4.37	104.08	10.11	123.44	12.04
90.73	7.02	109.99	11.69	147.44	13.2
99.38	8.28	116.16	13.18	152.44	13.25
103.14	10.77	119.36	13.2	167	12.74
105.55	12.58	131.16	11.09	170.39	12.92
108.15	12.59	134.16	11.01		
118.35	11.54				
147.34	11.65				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 142		STA 143		STA 144	
0	8.7	0	8.66	0	8.49
7.61	8.62	12.96	8.04	9.85	8.52
14.89	11.96	20.94	12.58	15.63	12.4
17.79	11.77	24.64	12.488	19.59	12.24
19.09	12.04	26.24	12.39	24.43	9.93
21.59	9.89	31.24	8.23	28.22	9.17
24.25	9.81	36.77	8.19	32.67	7.33
28.16	8.11	45.98	4.89	44.12	7.2
33.71	7.6	55.94	2.35	52.98	2.76
40.32	2.34	75.01	2.5	54.57	2.47
61.82	2.46	76.82	2.66	76.19	2
64.16	2.82	82.02	4.12	77.91	2.89
74.43	5.08	84.22	4.28	81.89	6.95
76.18	7.3	86.21	6.03	89.41	7.68
86.69	9.17	98.95	6.27	107.49	9.77
88.56	11.31	119.6	7.65	127.6	12.72
114.35	13.32	141.6	12.91	133.6	12.72
138.76	13.32	149.6	12.85	136.6	10.29
156.15	13.27	169.61	8.82	146.6	10.2
STA 145		STA 146		STA 147	
0	8.79	0	8.55	0	8.79
11.69	9.99	6.61	9.24	6.84	9.38
13.94	12.88	11.86	12.39	10.19	12.11
17.31	12.58	14.1	12.54	12.15	11.96
18.91	12.53	16.38	12.68	14.7	12.03
20.96	10.52	20.61	10.22	20.49	8.31
27.66	9.11	25.64	10.06	25.17	8.05
28.89	7.5	33.21	7.2	35.04	1.94
40.97	6.64	44.52	7.03	51.33	2.28
48.26	2.71	46.9	3.95	61.79	2.34
62.26	2.63	65.56	2.85	64.09	4.93
70.72	2.55	72.3	3.2	69.64	5.19
77.68	6.96	77.81	5.85	84.41	8.65
82.38	7.36	91.55	6.95	92.09	9.5
88.22	9.64	92.71	8.5	99.34	12.92
99.28	10.42	94	8.99	102.34	12.9
102.72	12.53	99.3	12.73	108.15	12.02
151.71	11.88	102.1	12.98	109.35	12.15
158.21	7.88	104.1	11.2		
168.21	7.28	113.29	10.66		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 148		STA 149		STA 150	
0	8.54	0	8.95	0	7.87
9.49	9.65	6.39	9.43	10.16	9.39
13.69	12.11	7.05	11.91	16.11	13.14
16.45	11.86	9.32	11.97	19.26	12.99
17.85	12.03	11.84	11.93	20.66	13.37
19.41	10.89	14.2	10.5	25.74	11.07
22.02	10.5	19.32	7.83	32.33	8.91
28.8	6.39	27.26	7.23	36.21	8.85
39.47	2.98	37.56	3.07	64.67	7.4
46.57	2.75	48.16	3.24	72.44	3.25
57.19	2.83	59.86	2.93	85.27	3.02
65.97	5.28	67.63	5.46	100.48	2.42
72.33	7.21	73.93	7.12	104.12	4.65
83	7.87	82.04	7.57	112.45	4.99
91.7	9.87	87.86	9.8	113.07	13.22
96.92	9.87	98.32	11.21	136.48	13.22
97.64	13.06	109.31	13.21	140.283	13.2
98.44	12.9	114.71	13.2	155.673	10.63
108.44	10.12	128.11	9.11	177.873	10.21
120.22	9.14	148.33	10.04		
STA 151		STA 152		STA 153	
0	8.44	0	8.11	0	8.1
10.02	9.4	10.61	9.4	3.15	8.99
15.58	13.31	15.7	13.38	11.7	13.2
18.35	13.37	19.7	13.22	14.05	13.15
20.35	13.39	25.5	13.38	16.01	13.26
49.19	9.01	32.32	8.66	24.95	8.98
50.64	8.89	40.84	8.13	29.24	8.52
60.8	7.53	49.89	3.08	44.18	3.14
79.11	3.2	64.36	3.06	54.08	3.02
85.04	2.52	71.36	3.12	61.95	3.72
95.36	3.12	78.61	5.84	64.53	7.09
97.94	6.17	80.01	6.88	71.54	7.32
103.25	6.51	91.33	8.64	80.13	9.85
110.86	9.53	117.53	9.65	98.27	9.93
116.01	9.97	120.71	13.85	105.4	13.58
117.69	12.86	142.71	13.73	122.15	13.66
137.69	12.65	164.71	12.06	136.17	11.51
147.69	10.4			153.42	10.77
173.28	9.74				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 154		STA 155		STA 156	
0	6.26	0	6.09	0	8.84
23.69	9.24	14.11	9.24	12.75	9.71
29.48	10.72	15.88	11.12	19.36	13.6
31.57	12.88	20.59	13.03	24.05	13.36
32.97	12.56	23.41	13.04	26.45	13.44
33.78	9.01	24.81	13.31	33.55	11.74
35.95	8.23	29.98	10.81	38.13	10.04
46.2	7.19	38.79	9.33	46.97	8.85
57.26	6.44	43.54	8.15	66.25	7.71
61.5	3.17	53.5	7.06	71.26	3.71
67.26	3.08	66.5	2.71	83.61	2.45
79.78	3.49	78.03	2.91	101.78	3.39
94.59	5.4	84.65	2	105.23	7.68
99.43	7.14	96.66	5.37	108.49	7.44
121.32	7.43	102.96	7.28	118.82	9.6
131.52	10.4	132.67	9.85	122.01	12.17
132.58	13.14	141.81	13.31	126.05	13.72
141.58	13.37	147.41	13.4	139.05	13.31
146.58	11.51	167.4	10.12	144.64	10.72
154.57	11.33	182.37	10.5	149.25	11.15
STA 157		STA 158		STA 159	
0	7.36	0	9.62	0	8.65
7.95	10.17	2.6	10	11.69	9.67
11.96	13.52	7.02	14.07	16.81	13.84
12.51	13.18	10.09	13.53	19.75	13.67
14.21	13.5	18.59	11.22	22.05	13.63
17.9	11.99	23.98	11.9	26.42	11.22
20.07	10.38	37.46	10.51	36.66	8.21
30.28	8.46	48.61	2.34	53.34	6.14
45.46	2.63	65.37	2.29	68.8	2.3
63.76	3.02	67.32	2.5	74.76	2.5
78.16	3.21	68.36	5.29	82.93	2.39
79.73	3.39	74.6	5.47	88.02	5.53
81.15	7.68	81.68	6.99	91.55	8.11
84.75	7.98	89.29	8.11	100.47	10.73
92.29	11.61	95.65	10.11	107.09	11.09
93.5	11.69	98.1	12.47	113.16	14.14
95.5	13.53	104.46	12.56	134.16	13.77
113.5	13.29	110.07	10.38	135.35	11.67
125.51	11.86	130.47	10.05	146.34	11.14



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 160		STA 161		STA 162	
0	8.92	0	10.34	0	11.35
10	9.72	10.78	10.49	9.42	11.33
14.1	10.92	17.57	13.81	14.42	14.03
22.59	13.96	19.27	13.67	16.34	13.87
26.94	13.36	22.27	13.6	18.74	14.17
38.67	10.31	33.58	8.63	28.5	8.35
53.91	8.47	49.37	6.83	36.74	6.81
60.75	6.38	58.69	7.83	54.29	7.57
65.44	2.82	61.32	2.62	55.26	3.85
79.03	2.5	64.21	2.6	59.2	2.85
86.75	2.83	84.72	2.49	78.31	3.79
91.28	5.15	94.16	6.59	86.48	7.56
103.79	7.36	97.85	6.6	92.93	7.89
112.87	8.4	109.63	9.2	106.88	9.49
120.68	12.18	121.06	9.46	118.11	10.66
126.55	13.88	129.27	13.96	124.94	14.05
129.95	13.45	134.33	13.8	128.34	14.04
135.55	11.7	137.38	11.47	132.74	12.85
145.62	10.4	149.27	11.54	155.93	11.65
STA 163		STA 164		STA 165	
0	11.65	0	11.96	0	8.62
14.04	11.31	17	12.18	18.38	9.93
17.88	13.8	21.73	14.17	21.94	13.95
20.56	13.51	24.69	13.57	24.76	13.67
23.71	13.58	29.88	12.64	30.58	13.05
34.07	7.6	32.1	10.76	32.03	12
50.66	7.12	36.34	10.77	39.62	11.14
59.83	8.03	56.39	3.4	53.4	11.33
68.08	2.62	64.63	3.31	67.3	3.25
70.49	2.5	71.76	3.23	79.42	3.17
95.41	2.31	85.44	7.52	86.92	3.78
97.54	6.46	90.22	7.3	92.56	6.34
103.82	8.02	98.07	5.18	101.33	7.21
128.74	2.31	102.85	7.52	113.08	8.43
130.87	6.46	110.7	7.3	119.29	11.43
137.15	8.02	116.89	10.17	123.97	13.64
150.32	10.33	131.92	14.57	126.17	13.64
157.37	10.5	147.54	14.99	128.77	12.61
169.89	14.31	168.06	13.74	131.97	12.18
191.29	13.71	173.29	11.74		
206.47	10.37	188.29	9.73		
221.85	10.38				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 166		STA 167		STA 168	
0	9.27	0	11.68	0	12.29
14.1	11.32	9.62	12.32	10	12.29
18.1	13.75	14.55	14.42	12.41	14
24.83	13.88	17.14	13.91	14.36	14.09
38.73	13.97	20.14	14.2	19.04	14.29
42.15	10.55	25.72	12.3	24.95	11.13
46.5	7.67	33.77	9.26	38.94	8.65
57.64	7.65	45.81	9.88	44.9	4.59
64.64	3.36	51.67	8.72	63.46	3.28
66.17	3.16	66.2	3.05	66.26	3.62
76.64	3.53	77.69	3.32	71.92	8.73
85.03	7.93	82.71	3.39	80.92	8.73
93.34	7.83	87.05	6.33	84.26	9.89
96.53	9.9	92.57	8.12	107.2	10.3
108.05	11.13	102.88	11.99	113.35	12.87
121.22	11.53	110.62	12.11	117.22	13.12
127.3	13.21	124.67	14.13	118.76	11.55
131.4	13.15	129.87	14.09	132.17	11.31
134.4	12.77	134.82	13.02		
149.4	12.77	149.82	12.83		
STA 169		STA 170		STA 171	
0	12.25	0	12.33	0	12.63
5.13	12.64	11.55	12.72	1.25	12.63
7.93	14.28	14.14	13.89	3.91	14.8
9.92	14.47	16.52	13.98	5.91	13.99
12.51	14.24	19.3	14.69	7.91	14.51
17.48	11.35	24.48	11.24	12.01	10.95
22.48	11.86	34.76	9.02	19.63	10.74
26.13	8.32	45.07	7.97	25.44	8.87
40.7	6.52	53.49	7.12	38.91	8.1
52.7	3.71	60.17	4.21	45.66	5.68
63.7	3.65	68.96	4.34	54	4.65
70.11	4.49	81.25	5.88	61.5	5.86
79.26	7.23	88.42	9.32	66.62	8.58
83.56	8.18	98.3	10.47	79.63	10.25
89.41	10.39	103.91	12.83	81.74	10.6
96.72	12.01	107.47	12.38	92.64	12.31
104.72	13.65	112.34	14.01	99.91	14.37
110.32	13.47	118.19	14.11	106.03	14.08
115.52	12.15	121.54	12.6	113.4	12.84
148.72	11.83	133.42	12.21	122.6	12.23





**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 172		STA 173		STA 174	
0	12.9	0	13.09	0	12.95
2.79	12.98	1.47	13.61	7.56	13.29
4.46	14.42	1.97	14.335	8.36	14.64
6.85	14.05	2.96	14.25	9.36	14.71
11.02	14.33	4.93	12.76	10.36	14.28
14.27	11.5	9.21	11.01	12.35	13.77
18.66	10.75	15.36	10.98	13.29	11.98
26.77	8.14	21.78	10.72	13.98	9.24
40.62	8.33	22.18	8.88	23.63	9.82
49.14	5.07	27.03	8.59	28.1	6.53
53.38	4.54	40.16	4.57	31.2	6.48
64.03	4.56	48.09	4.38	37.73	3.41
68.96	8.21	68.49	4.95	57.33	3.4
81.12	11.96	80.53	10.21	84.16	3.47
90.06	11.66	85.24	11.68	87.82	7.28
100.69	12.98	91.85	13.12	92.29	7.38
102.52	13.68	92.95	14.02	96.53	9.6
107.58	13.66	98.21	14.49	99.28	11.86
111.38	12.69	116.14	12.81	109.36	14.73
133.38	12.24	126.94	12.74	112.76	14.65
STA 174.07		STA 174.17		STA 174.94	
0	12.87	0	13.16	0	13.3
18.02	13.32	2.39	13.2	12.77	13.87
20.61	14.18	3.59	14.72	38.92	14.49
25.83	14.07	9.98	14.5	42.71	13.27
29.57	11.64	14.82	12.41	48.04	10.2
32.62	11.43	20.65	10.19	56.95	9.01
51.78	4.22	25.13	9.45	67.97	3.77
76.78	4.12	28.29	8.05	82.74	2.89
95.79	4.71	34.73	5.99	99.86	5
108.47	9.41	53.57	3.79	106.92	7.09
112.75	11.52	70.89	4.58	110.45	8.75
121.83	14.24	75.87	7.81	115.56	8.82
126.22	14.35	83.47	8.25	121.75	10.28
131.8	13.24	91.77	9.84	126.75	10.17
		96.91	11.65	136.12	14.41
		100.97	14.53	148.92	15.75
		103.97	14.51	160.92	15.4



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 175		STA 176		STA 177	
0	13.56	0	12.76	0	11.86
13.97	14.47	31.59	13.32	13.47	13.64
20.96	14.98	41.59	14.32	13.76	14.29
24.35	12.84	44.99	13.96	18.75	12.42
24.95	11.1	54.96	9.66	24.94	11.79
41.15	8.5	70.26	7.45	33.03	11.78
41.55	7.54	83.52	7.02	41.22	9.78
44.91	7.54	89.43	3.22	46.09	3.12
45.97	6.44	114.37	3.96	51.24	3.32
57.64	3.43	115.8	4.17	70.15	3.51
77.43	5.98	117.25	6.72	71.61	7.7
86.54	7.36	123.5	7.32	76.58	7.78
113.38	13.31	127.72	8.78	78.11	8.85
117.18	14.27	134.77	9.51	80.19	9.89
120.52	14.65	138.55	11.5	84.91	9.92
129.57	14.31	145	11.37	87.11	12.98
		147	13.44	95.73	13.7
		149.63	13.44	103.15	14.32
		151.63	12.85		
		153.03	12.63		
STA 178		STA 179		180	
0	13.42	0	12.24	0	12.86
12.19	13.01	4.65	12.84	11.34	13.18
13.59	13.97	7.11	13.43	13.92	14.48
14.99	13.95	9.4	14.73	17.9	14.57
20.99	10.29	12.4	14.98	25.53	12.19
26.68	9.08	15.4	14.9	34.35	9.51
29.82	8.68	18.06	12.9	56.08	8.83
35.87	4.21	25.44	10.32	65.77	4.99
42.22	3.92	38.53	8.43	80.8	3.71
65.9	5.15	43.24	7.23	93.15	4.82
69.29	7.11	48.86	4.71	98.24	6.71
75.84	8.99	69.71	3.39	101.14	6.94
82.61	10.06	77.32	4.87	109.92	10.49
97.79	12.59	87.49	9.5	113.89	11.58
104.98	13.1	102.88	9.93	117.56	14.2
106.98	14.86	113.68	14.57	124.97	14.25
114.98	14.9	124.19	14.56	128.97	12.8
125.98	12.85	128.25	12.51	130.97	12.16
131.98	12.77	134.25	12.47		



Tabel Input Cross Section Coordinate (Lanjutan)

STA 181		STA 182		STA 183	
0	11.65	0	8.65	0	5.63
8.4	11.52	29.17	10.46	21.92	10.09
14.2	14.32	32.1	13.81	26.28	13.13
19.36	14	34.66	13.43	28.77	13.27
32.59	10.27	37.56	11.6	35.12	9.96
38.48	8.83	48.37	8.64	39.61	8.26
39.16	8.61	60.06	8.58	52.81	7.39
57.21	7.86	61.64	2.01	54.7	5.91
67.14	5.43	86.19	3.43	73.39	4.03
100.02	3.86	101.21	4.62	89.96	4.36
114.31	5.97	104.03	7.04	92.38	7.51
121.72	9.66	108.12	9.18	96.61	9.29
129.82	10.11	110.92	11.14	100.92	11.18
131.92	11.84	124.54	12.36	106.36	12.3
139.26	14.48	128.05	14.49	109.13	15.21
141.46	14.73	132.65	14.51	114.13	15.52
145.46	12.89	142.65	12.96	119.93	13.51
167.46	12.52	176.23	13.97	162.71	13.14
STA 184		STA 185		STA 186	
0	10.18	0	14.16	0	14.18
8.74	10	11.99	13.76	7.2	13.86
14.71	13.21	14.53	13.42	10.14	10.49
18	12.91	16.37	11.81	14.52	10.6
23.58	9.94	20.57	10.18	18.82	6.2
26.5	9.49	24.01	9.52	27.54	5.09
36.87	3.78	37.65	5.07	29.19	3.35
39.12	3.67	55.31	4.82	62.83	3.5
54.16	3.34	72.97	4.93	81.26	6.98
57.49	4.98	80.19	8.99	93.27	7.02
61.23	5.7	87.66	8.93	104.93	8.51
77.32	9.59	106.65	9.83	140.25	12.45
95.31	10.3	134.8	12.18	142.75	12.52
104.74	12.51			161.77	14.89
112.48	15.51				
124.39	15.24				
126.98	12.09				
133.56	12.25				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 187		STA 188		STA 189	
0	14	0	7.59	0	9.84
5.2	14.26	5.76	8.86	20.03	9.76
16.98	14.05	16.64	9.57	26.58	14.87
23.83	11.63	20.54	10.25	31.28	14.72
28.45	10.25	24.94	12.29	38.65	12.21
35.74	10.17	52.96	15.28	46.4	11.84
36.04	5.06	66.96	14.36	56.69	8.44
37.43	4.15	76.96	14.45	76.37	7.98
50.08	8.93	83.96	14.03	81.81	6.02
53.9	9.2	92.54	10.08	91.22	5.41
60.72	4.68	102.83	9.15	100.9	5.13
74.02	5.13	113.21	9	113.66	6.24
81.26	7.622	130.02	5.13	119.98	7.74
92.53	11.5	149.39	4.95	124.67	10.46
99.16	12.98	165.23	4.92	133.78	11.19
116.21	12.98	175.6	7.59	141.26	13.37
132.27	15.64			151.24	17.03
135.24	15.65			160.64	17.22
146.24	15.88			177.05	16.42
153.27	14.63			191.66	14.97
179.24	14.74				
STA 190		STA 190.04		STA 190.87	
0	13.23	0	13.51	0	14.81
30.98	14.74	22.21	13.51	17	14.88
38.97	14.97	26.03	14.78	36.6	14.88
42.79	13.25	34.02	14.93	37	15.05
48.71	12.44	37.84	13.19	39.4	14.83
60.64	6.47	43.76	12.39	40.91	14.83
78.98	5.78	55.69	6.65	41.51	10.93
120	5.22	83.15	6.43	49.2	9.82
132.5	6.33	107.53	6.39	63.13	9.84
148.45	12.34	127.45	6.47	81	5.77
154.18	12.85	143.44	12.21	85.43	4.02
157.6	14.54	149.24	12.98	124.11	5.15
160.58	14.41	152.66	14.75	131.44	10.34
162.97	13.49	155.66	14.63	136.03	10.11
184.4	12.49	164.66	13.22	143.02	10.11
		196.56	12.41	163.14	12.91
				190.54	13.82
				215.15	14.04
STA 191		STA 192		STA 193	
0	14.03	0	13.99	0	14.83
9.6	14.2	25	14.61	15.96	14.94
30.09	14.14	38.99	14.68	34.96	14.56
37.97	10.23	53.83	9.66	42.96	7.5
52.14	9.12	70.21	9.07	69.34	5.67
69.67	9.09	73.75	6.44	80.31	5.63
79.05	5.54	95.89	5.08	88.72	5.27
93.87	4.35	118.42	6.26	93.37	8.77
124.47	6.75	127.86	8.95	105.74	10.16
128.72	10.15	135.85	9.24	147.82	10.11
131.6	10.44	139.33	10.91	161.81	12.77
136.8	10.36	160.24	14.04	178.47	13.06
147.57	13.42				
155.58	14.21	STA 191			
		188.58	14.7		



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 194		STA 195		STA 196	
0	13.61	0	11.65	0	11.65
18.29	10.88	22.01	10.84	22.01	10.84
31.63	9.27	41.99	10.17	41.99	10.17
44.62	9.59	48.63	5.75	48.63	5.75
50.26	5.25	76.46	4.63	76.46	4.63
77.38	4.91	88.13	5.47	88.13	5.47
91.32	5.26	96.51	6.64	96.51	6.64
103.58	6.43	101.91	8.5	101.91	8.5
106.02	8.87	111.98	9.18	111.98	9.18
121.62	10.08	119.99	10.15	119.99	10.15
142.62	10.28	138.59	10.05	138.59	10.05
161.54	12.16	155.19	12.15	155.19	12.15
171.3	12.96	162.59	12.1	162.59	12.1
STA 197		STA 198		STA 199	
0	11.69	0	13.51	0	10.38
12.47	10.24	7.8	11.03	15.99	10.59
13.74	7.65	37.8	10.19	36.74	9.94
21.78	7.65	40.8	10.24	49.98	9.56
24.78	9.39	49.5	6.91	60.96	9.15
28.72	9.6	64.3	5.16	63.86	6.83
32.51	9.7	78.22	5.95	77.13	5.92
35.14	6.24	85.68	6.41	104.85	5.97
59.51	5.37	87.77	8.67	109.92	6.26
81.59	5.09	91.76	11.67	112.57	9.01
86.18	5.39	98.49	15.06	115.45	12.97
88.68	8.31			117.68	14.58
92.71	10.17			120.84	15.02
100.47	14.35			124.99	15.12
108.28	15.02				
STA 200		STA 201		STA 202	
0	11.13	0	11.31	0	10.78
22.01	10.6	51.95	11.62	32	10.55
39.94	10.01	121.88	9.2	60	10.48
49.89	9.64	126.58	6.54	62	10.36
55.18	9.07	145.46	5.5	65.64	7.47
55.61	6.23	161.84	6.42	68.74	5.36
65.43	5.6	163.87	8.96	80.07	5.38
73.92	5.86	171.86	10.74	109.88	6.49
88.12	5.88	182.36	15.35	110.99	9.69
90.26	9.31	215.92	19.23	119.99	10.46
94.03	10.59			150.99	10.56
104.18	11.43				
115.37	15.52				
133.58	16.88				
148.51	17.45				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 203		STA 204		STA 205	
0	20.55	0	20.1	0	20.57
39.47	15.89	14.75	18.1	14.42	17.46
54.2	12.02	27.93	13.27	36.92	12.52
72.95	11.63	37.33	10.66	53.67	10.08
82.13	11.35	40.78	10.2	63.82	10.2
99.13	11.52	57.76	7.33	66.6	10.75
114.56	5.65	69.94	5.28	72.08	6.54
120.21	5.15	76.19	5.13	87.2	5.82
131.9	6.71	81.29	6.31	104.24	5.27
133.44	8.93	88.32	8.18	111	6.42
142.12	10.44	94.32	9.03	112.95	8.45
161.13	11.58	102.31	8.91	120.2	10.84
168.3	13.69	126.7	8.7	137.6	10.92
				161	10.95
STA 206		STA 207		STA 208	
0	17.38	0	14.56	0	18.18
23.41	15.6	28.9	12.85	25.35	14.97
36.82	10.84	54.85	15.91	32.78	10.58
54	10.09	60.59	12.73	45.56	10.03
58.65	6.03	71.63	6.58	66.48	8.75
72.92	5.94	79.88	6.67	70.47	7.02
89.86	6.3	94.56	7.87	82.43	6.29
105.19	9.39	114.66	11.25	87.47	8.28
113	9.77	131.4	11.29	102.5	8.35
115.98	9.55	137.53	10.5	104.4	6.92
118	9.45	146.71	11.53	117.44	6.09
160.94	12.1	151.57	10.46	130.86	7.16
				140.56	9.7
				150.56	9.65
				160.56	10.47
				254.43	15.26
STA 209		STA 209.5		STA 210	
0	19.51	0	20.62	0	16.96
70.45	14.55	54.38	14.82	9.69	15.19
73.39	9.76	55.94	10.29	14.12	11.29
97.39	9.25	65.94	10.24	31.1	9.74
139.39	9.91	95.94	10.04	44.07	10.12
169.77	9.13	109.44	7.37	53.8	6.98
173.54	7.53	125.86	7	73.25	6.11
194.36	7.46	147.89	5.96	94.98	6.46
218.37	6.84	152.33	9.02	95.67	9.99
219.4	10.2	158.93	10.14	104.07	10.13
226.2	10.56	175.93	10.35	124.07	10.32
239.4	10.76	190.93	10.29	129.05	10.72
252.59	11.45				



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 211		STA 212		STA 213	
0	15.48	0	15.79	0	15.13
22.89	13.84	19.87	14.08	6.84	13.79
24.62	11.41	21.57	12.38	21.7	11.81
39.81	10.86	22.49	11.66	49.69	10.89
54.61	10.73	49.44	9.8	58.07	10.04
79.94	9.06	53.26	7.71	66.58	8.87
108.67	6.26	87.89	5.96	73.52	7.21
118.25	6.93	96.42	8.14	106.27	5.91
118.69	11.49	109.43	11.42	107.3	11.37
146.4	13.57	111.36	11.67	114.49	11.86
186.22	13.87	115.67	14.19	115.22	11.96
		116.92	16.66	122.8	13.96
		132.24	19.34	127.86	15.36
				138.91	19.44
STA 214		STA 215		STA 216	
0	22.4	0	24.65	0	19.15
14.64	17.49	44.74	15.07	33.99	18.41
45.05	13.22	58.32	14.15	46.99	17.84
70.72	10.95	71.73	10.43	55.56	12.91
91.9	9.95	85.9	8.68	60.13	11.21
94.23	8.15	100.7	7.32	68.73	6.78
122.39	6.99	123.3	6.92	71.1	6
143.66	7.47	133.73	7.68	84.92	6.55
154.83	6.8	136.13	10.77	105.89	6.48
155.53	10.92	139.46	17.4	113.06	8.39
165.9	12.74	158.96	18.23	119.65	12.13
170.59	15.33	191.1	19.56	120.83	14.77
225.54	17.05	216.76	23.13	142.07	14.98
STA 217		STA 218		STA 219	
0	24.62	0	18.9	0	18.75
49.32	14.99	29.2	18.58	23	18.63
50.15	14.16	55	18.07	55	18.24
60.05	12.72	64.45	13.73	59.69	17.54
64.98	12.26	73.24	11.86	85.86	6.01
70.33	8.53	81.74	7.19	90.36	5.27
84.15	8.8	91.3	5.58	97.18	5.68
97.95	6.34	111.94	5.7	113.27	5.73
111.79	6.69	119.75	7.54	121.22	8.17
113.6	8.36	120.02	9.56	127.67	10.45
119.04	12.37	124.44	11.8	145.23	11.21
120.03	14.25	129.53	11.65	165.35	11.08
130.02	14.22	153.18	10.26	167.48	11.98



**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 220		STA 221		STA 222	
0	19.68	0	21.16	0	25.24
5.51	19.44	13.81	19.39	2.91	24.72
12.4	18.59	37.19	18.45	50.6	16.8
16	18.18	49	14.41	79.79	11.99
22.06	15.84	49.15	14.344	89.64	10.5
32.06	6.99	59.1	9.94	116.68	5.28
38.71	5.8	63.53	8.33	140.33	6.53
46.23	5.45	77.34	6.53	159.69	6.05
72.32	8.59	101.61	8.44	163.29	10.27
98.02	10.26	103.65	10.08	175.62	11.56
99.77	11	120.94	12.38	214.57	12.13
101.58	12.77	126.99	12.57	238.89	12.56
125.89	14.76				
STA 223		STA 224		STA 225	
0	21.13	0	20.42	0	22.19
35.04	17.21	38.59	16.08	17	22.22
64.53	12.84	67.19	16.01	44.68	19.46
77.2	11.45	79.96	7.25	52.29	7.77
97.04	9.5	88.87	6.86	63.91	7.65
106.56	6.71	96.84	6.99	80.87	12.52
113.22	5.04	101.07	9.93	104.16	12.35
141.62	5.74	109.05	12.67	111.7	15.38
147.95	5.81	117	13.05	119.04	16.62
149.83	7.71	118.18	15.59	127.69	18.76
155.03	9.2	126.18	15.59	153.42	16.14
184.86	12.69	145.17	16.06		
195.44	12.65				
STA 226		STA 227		STA 228	
0	21.36	0	20.63	0	19.58
27.99	19.72	53.66	17.12	15.99	19.27
54.97	17.1	54.85	17.11	20.99	19.16
66.09	7.203	59.43	16.97	35.34	10.65
77.41	6.18	74.82	9.38	41.13	10.36
94.12	7.99	91.44	5.98	49.49	11.15
117.4	9.78	98.55	8.23	85	11.19
122.34	12.26	104.32	10.66	93.41	13.95
138.34	13.26	123.1	11.69	116.73	13.25
144.97	16.68	135.66	12.43	128.75	13.13
159.97	16.68	145.65	13.14	131.69	14.94
169.98	16.81	151.42	16.53	165.78	17.52
		169.83	17.31		





**Tabel Input Cross Section Coordinate (Lanjutan)**

STA 238		STA 239		STA 240	
0	14.11	0	14.32	0	15.67
28.79	14.79	28.99	14.87	37	15.06
31.87	13.41	49.99	14.47	52	15.21
49.79	14.31	55.45	14.23	56.2	14.45
70.69	13.34	61.95	12.49	59.73	12.51
79.66	11.78	72.5	10.67	81.28	11.06
83.64	10.82	93.55	9.61	101.72	11.39
87.69	11.22	113.72	9.85	106.96	14.04
94.68	11.54	115.39	13.39	123	15.04
109.75	12.61	129.99	15.05	129.33	17.86
131.8	14.71	147.99	14.74	151.9	17.99
149.78	17.07	170.99	14.47		
154.68	16.95				
173.08	17.53				
STA 241		STA 242		STA 243	
0	15.91	0	17.63	0	22.09
17.23	16.89	19.6	17.25	17.57	19.52
46.47	13.75	24.6	16.47	28.41	17.55
51.67	13.45	43	16.17	40.08	15.99
53.25	14.77	57.09	13.16	44.42	13.61
56.63	15.1	82.5	12.19	51.73	11.33
65.43	15.34	100.26	13.51	56.64	11.11
75.62	13.39	120.86	17.23	88.37	12.22
87.59	11.91	152.48	21.75	114.02	13.87
91.56	12.96	169.44	22.63	123.98	18.84
120.63	14.14			144.95	20.08
128.61	16.79			161.12	20.27
149.78	17.2			184.02	22.03
162.42	19.79				
178.97	20.66				
188.31	21.57				
STA 244		STA 245		STA 246	
0	23.1	0	24.11	0	23.87
8.75	22.37	50.44	16.43	10.81	22.82
11.43	20.78	53.43	15.95	25.56	17.72
23.08	17.71	54.32	15.92	39.27	15.92
24.48	16.3	68.72	14.74	41.47	15.85
46.48	15.19	80.29	12.88	50.21	14.27
58.48	14.49	108.21	12.87	55.77	13.82
66.67	13.96	116.46	13.8	81.6	12.74
73.48	15.64	128.81	19.1	91.22	13.43
73.64	18.41	137.24	19.59	105.8	17.89
75.02	18.22	147.24	19.85	124.17	19.92
78.1	21.53	155.08	23.8	136.94	22.99
119.05	22.06			153.31	23.01
247		247			
0	25.44	90.63	23.61		
5.5	25.48				
10.92	24.83				
13.62	23.49				
16.01	23.617				
18.63	23.62				
19.63	13.62				
30.07	13.3				
73.08	13.3				
90.35	13.62				

1832 matches from 124 sources, of which 73 are online sources.

PlagLevel: 9.8%/83.8%

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- [14] (17 matches, 0.3%/3.3%) from <https://www.slideshare.net/dhaniedhona/hec-ras-dasar-simple-geometry-river-sep11>
- [15] (17 matches, 0.3%/3.3%) from <https://www.slideshare.net/dhaniedhona/hec-ras-dasar-simple-geometry-river-okt12>
- [16] (17 matches, 0.3%/3.2%) from <https://documents.mx/documents/hec-ras-d...-geometry-river-sep11-5685de3478c2c.html>
- [17] (17 matches, 0.3%/3.1%) from <https://www.slideshare.net/dhaniedhona/hec-ras-dasar-simple-geometry-river-jul14>
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- ✓ [64] (3 matches, 0.0%0.6%) from [digilib.mercubuana.ac.id/manager/n!@file\\_skripsi/Isi2458328748281.pdf](http://digilib.mercubuana.ac.id/manager/n!@file_skripsi/Isi2458328748281.pdf)
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- ✓ [108] (1 matches, 0.0%0.4%) from [pt.scribd.com/document/110727568/1738-Chapter-II](https://pt.scribd.com/document/110727568/1738-Chapter-II)
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### BAB I PENDAHULUAN

#### 1.1 Latar Belakang

Air merupakan salah satu sumber kehidupan bagi semua makhluk hidup, tetapi bila dengan jumlah yang sangat besar, air juga dapat menjadi masalah bagi kehidupan. Salah satu bentuk masalah yang dapat ditimbulkan oleh volume air dalam jumlah yang sangat besar adalah bencana banjir. Di Indonesia tercatat memiliki lebih dari 5.000 sungai besar dan kecil, 30% diantaranya melewati kawasan padat penduduk, yang berpotensi menimbulkan banjir pada wilayah tersebut (Pusat Penanggulangan Krisis, 2007). Salah contoh daerah yang berpotensi banjir di Indonesia adalah Kabupaten Kendal.

Kabupaten Kendal merupakan salah satu wilayah dari Provinsi Jawa Tengah yang berpotensi banjir dilanda bencana banjir yang hampir setiap tahunnya. Salah satu penyebabnya adalah meluapnya sungai Bodri. Sungai yang terletak di Kabupaten Temanggung di bagian hulu serta Kabupaten Kendal ini menunjukkan bahwa perlu dilakukan suatu evaluasi kapasitas penampang sungai sebagai upaya dalam penanggulangan bencana banjir. Untuk melakukan evaluasi kapasitas penampang sungai Bodri perlu adanya pemodelan hidraulik. Pemodelan dalam hidraulik memiliki maksud untuk menjelaskan bagaimana tahapan perpindahan air dalam sistem aliran Sungai berdasarkan macam-macam perbedaan waktu dan tempat sehingga dapat dihasilkan penetapan besaran-besaran rancangan sehingga dapat menunjang perancangan bangunan – bangunan hidraulik pengendali banjir. Pemodelan dapat dilakukan dengan bantuan suatu software tertentu, sehingga model yang dihasilkan lebih mendekati kenyataan di lapangan. Salah satu software yang digunakan adalah Hydrologic Engineering Center's River Analysis System (HEC-RAS).

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#### 1.2 Rumusan Masalah

Pada tanggal 18 Maret 2016 jembatan penghubung Dukuh Desa Kaliputih, Kecamatan Singorojo, Kendal, ambrol dihantam banjir bandang yang terjadi. Akibatnya, 350 kepala keluarga atau sekitar 1.500 warga setempat terancam terisolasi karena jembatan tersebut merupakan satu-satunya akses menuju kota.