Appendix 5

AHP Data

The analysis result table by the AHP

Route No.	Type of Dissaster	Serial Number of Disaster Critical Spots	Weight	Rank	* Judgment	Stability level	Traffic volume	Enviromental evaluation	Natural condition	Benefit B/C	Restoration level	Development situation
			Evaluation Criteria			Stability level	Traffic volume	Enviromental evaluation	Natural condition	Benefit B/C	Restoration level	Development situation
			Weight of each Evaluation Criteria			0.3668	0.1673	0.0839	0.1800	0.0383	0.1430	0.0207
			Analysis result			Weight of each Alternative Spots						
Nic1	R.F.	1	0.0211	15	D.P.S.	0.0110	0.0330	0.0449	0.0322	0.0168	0.0054	0.0246
	R.F.	2	0.0226	10	D.P.S.	0.0215	0.0324	0.0186	0.0322	0.0178	0.0054	0.0246
	Bridge	3	0.0209	16	D.P.S.	0.0276	0.0269	0.0071	0.0141	0.0517	0.0065	0.0114
	Bridge	4	0.0279	7	D.P.S.	0.0527	0.0269	0.0071	0.0028	0.0482	0.0065	0.0114
	Bridge	5	0.0220	12	D.P.S.	0.0276	0.0242	0.0186	0.0141	0.0276	0.0149	0.0237
	Bridge	6	0.0314	3	D.P.S.	0.0527	0.0242	0.0449	0.0028	0.0459	0.0105	0.0237
	R.F.	7	0.0189	23	D.P.S.	0.0215	0.0242	0.0186	0.0141	0.0070	0.0149	0.0237
	R.C.	8	0.0176	29	D.P.S.	0.0090	0.0242	0.0186	0.0299	0.0097	0.0171	0.0237
	R.C.	9	0.0125	44		0.0083	0.0242	0.0186	0.0028	0.0089	0.0171	0.0237
	R.C.	10	0.0131	42		0.0083	0.0242	0.0186	0.0068	0.0072	0.0171	0.0237
	R.C.	11	0.0175	30	D.P.S.	0.0162	0.0242	0.0186	0.0141	0.0109	0.0171	0.0237
	R.C.	12	0.0187	24	D.P.S.	0.0122	0.0242	0.0186	0.0322	0.0178	0.0116	0.0237
	R.C.	13	0.0183	26	D.P.S.	0.0094	0.0242	0.0186	0.0322	0.0129	0.0171	0.0237
	R.F.	14	0.0174	31		0.0094	0.0242	0.0186	0.0299	0.0088	0.0149	0.0237
	R.C.	15	0.0137	40		0.0089	0.0242	0.0186	0.0068	0.0168	0.0171	0.0237
	R.C.	16	0.0164	34		0.0094	0.0242	0.0071	0.0299	0.0206	0.0116	0.0237
	R.F.	17	0.0148	35		0.0070	0.0186	0.0186	0.0322	0.0083	0.0065	0.0246
	Bridge	18	0.0284	6	D.P.S.	0.0527	0.0052	0.0449	0.0068	0.0268	0.0116	0.0246
	Bridge	19	0.0285	5	D.P.S.	0.0527	0.0052	0.0449	0.0028	0.0278	0.0171	0.0246
	R.C.	20	0.0113	50		0.0090	0.0052	0.0186	0.0141	0.0091	0.0149	0.0246
	R.F.	21	0.0090	52		0.0089	0.0052	0.0186	0.0028	0.0160	0.0116	0.0246
	R.F.	22	0.0089	53		0.0089	0.0052	0.0186	0.0068	0.0148	0.0065	0.0246
Nic3	R.C.	23	0.0144	37		0.0090	0.0256	0.0071	0.0028	0.0341	0.0290	0.0090
	R.C.	24	0.0201	19	D.P.S.	0.0090	0.0256	0.0186	0.0299	0.0304	0.0290	0.0090
	R.C.	25	0.0214	14	D.P.S.	0.0147	0.0256	0.0186	0.0299	0.0428	0.0210	0.0090
	Bridge	26	0.0371	1	D.P.S.	0.0527	0.0256	0.0186	0.0322	0.0598	0.0253	0.0090
	R.C.	27	0.0186	25	D.P.S.	0.0094	0.0256	0.0036	0.0299	0.0223	0.0290	0.0090
	R.C.	28	0.0111	51		0.0083	0.0102	0.0071	0.0068	0.0068	0.0290	0.0043
	S.S.	29	0.0177	28	D.P.S.	0.0089	0.0102	0.0071	0.0322	0.0041	0.0423	0.0043
	D.F.	30	0.0217	13	D.P.S.	0.0198	0.0102	0.0071	0.0322	0.0051	0.0423	0.0043
	S.S.	31	0.0169	32		0.0074	0.0102	0.0036	0.0322	0.0061	0.0423	0.0043
	S.S.	32	0.0252	8	D.P.S.	0.0276	0.0102	0.0186	0.0299	0.0072	0.0423	0.0043
	S.S.	33	0.0229	9	D.P.S.	0.0276	0.0102	0.0071	0.0322	0.0111	0.0290	0.0043
	R.C.	34	0.0167	33		0.0198	0.0102	0.0071	0.0141	0.0079	0.0290	0.0043
Nic5	R.F.	35	0.0198	21	D.P.S.	0.0147	0.0101	0.0071	0.0322	0.0068	0.0423	0.0027
Nic15	D.F.	36	0.0117	47		0.0070	0.0053	0.0022	0.0322	0.0061	0.0105	0.0258
	D.F.	37	0.0117	48		0.0070	0.0053	0.0024	0.0322	0.0053	0.0105	0.0258
	D.F.	38	0.0076	55		0.0070	0.0053	0.0071	0.0068	0.0075	0.0105	0.0258
	D.F.	39	0.0082	54		0.0070	0.0053	0.0071	0.0068	0.0064	0.0149	0.0258
Nic26	R.F.	40	0.0138	39		0.0074	0.0207	0.0186	0.0141	0.0155	0.0171	0.0246
	R.F.	41	0.0147	36		0.0070	0.0207	0.0186	0.0141	0.0129	0.0253	0.0246
	R.F.	42	0.0115	49		0.0074	0.0207	0.0186	0.0028	0.0088	0.0171	0.0246
	R.F.	43	0.0120	45		0.0083	0.0207	0.0186	0.0028	0.0129	0.0171	0.0246
	R.F.	44	0.0183	27	D.P.S.	0.0110	0.0207	0.0186	0.0322	0.0118	0.0171	0.0246
	Bridge	45	0.0319	2	D.P.S.	0.0527	0.0207	0.0449	0.0028	0.0200	0.0253	0.0246
	R.F.	46	0.0142	38		0.0110	0.0183	0.0186	0.0141	0.0223	0.0116	0.0246
	R.C.	47	0.0127	43		0.0089	0.0183	0.0186	0.0028	0.0200	0.0210	0.0246
	R.F.	48	0.0134	41		0.0083	0.0183	0.0186	0.0141	0.0276	0.0116	0.0246
	R.C.	49	0.0199	20	D.P.S.	0.0147	0.0183	0.0071	0.0322	0.0111	0.0290	0.0246
	R.F.	50	0.0223	11	D.P.S.	0.0232	0.0183	0.0186	0.0322	0.0107	0.0171	0.0246
	R.C.	51	0.0194	22	D.P.S.	0.0228	0.0183	0.0071	0.0322	0.0155	0.0054	0.0090
	Bridge	52	0.0207	17	D.P.S.	0.0276	0.0199	0.0449	0.0068	0.0304	0.0065	0.0090
	R.C.	53	0.0119	46		0.0074	0.0199	0.0071	0.0141	0.0111	0.0149	0.0090
	Bridge	54	0.0204	18	D.P.S.	0.0276	0.0207	0.0449	0.0028	0.0373	0.0065	0.0090
	Bridge	55	0.0293	4	D.P.S.	0.0527	0.0207	0.0449	0.0028	0.0304	0.0065	0.0090

The Comparison table of the importance of Alternative Spots in stability level

AlternativeSpots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	1	1/3	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	3	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	3	3	3	3	1	3	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0110435
2	1	1	1	1/3	1	1/3	1	3	3	3	1	1	3	3	3	3	3	1/3	1/3	3	3	3	3	3	1	1/3	3	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	1	1/3	1	3	3	1	1	1	1	3	1	1/3	0.0214551
3	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
4	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
5	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
6	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
7	1	1	1	1/3	1	1/3	1	3	3	3	1	1	3	3	3	3	3	1/3	1/3	3	3	3	3	3	1	1/3	3	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	1	1/3	1	3	3	1	1	1	1	3	1	1/3	0.0214551
8	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.009044
9	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1/3	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1/3	1/3	1/3	1/3	1	1/3	1/5	0.0083495
10	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1/3	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1/3	1/3	1/3	1/3	1	1/3	1/5	0.0083495
11	1	1	1/3	1/3	1/3	1/3	1	1	3	3	1	1	1	1	3	1	3	1/3	1/3	1	3	3	1	1	1	1/3	1	3	3	1	3	1/3	1/3	1	1	3	3	3	3	3	3	3	3	1	1/3	1	3	3	1	1	1	1/3	3	1/3	1/3	0.0182234
12	1	1	1/3	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	3	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	3	1/3	1/3	1	1	3	3	3	3	3	3	3	1	1	1/5	1	1	1	1	1/3	1	1/3	3	1/3	1/5	0.0122035
13	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0094126
14	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0094126
15	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0088851
16	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0094126
17	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
18	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
19	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
20	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.009044
21	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0088851
22	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0088851
23	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.009044
24	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.009044
25	1	1	1/3	1/3	1/3	1/3	1	1	3	3	1	1	1	1	1	1	3	1/3	1/3	1	1	1	1	1	1	1/3	1	3	1	1	3	1/3	1/3	1	1	3	3	3	3	3	3	3	3	1	1/3	1	1	3	1	1	1	1/3	3	1/3	1/3	0.0146614
26	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
27	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0094126
28	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1/3	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1/3	1/3	1/3	1/3	1	1/3	1/5	0.0083495
29	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0088851
30	1	1	1	1/3	1	1/3	1	3	3	3	1	1	1	1	3	1	3	1/3	1/3	3	3	3	3	3	1	1/3	1	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	1	1/3	1	3	3	1	1	1	1	3	1	1/3	0.0198103
31	1	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1	1/7	1	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0074163
32	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
33	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
34	1	1	1	1/3	1	1/3	1	3	3	3	1	1	1	1	3	1	3	1/3	1/3	3	3	3	3	3	1	1/3	1	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	1	1/3	1	3	3	1	1	1	1	3	1	1/3	0.0198103
35	1	1	1/3	1/3	1/3	1/3	1	1	3	3	1	1	1	1	1	1	3	1/3	1/3	1	1	1	1	1	1	1/3	1	3	1	1	3	1/3	1/3	1	1	3	3	3	3	3	3	3	3	1	1/3	1	1	3	1	1	1	1/3	3	1/3	1/3	0.0146614
36	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
37	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
38	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
39	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
40	1	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1	1/7	1	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0074163
41	1/3	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1/3	1/7	1/3	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0069849
42	1	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1	1/7	1	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0074163
43	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1/3	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1/3	1/3	1/3	1/3	1	1/3	1/5	0.0083495
44	1	1	1/3	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	3	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	3	3	3	3	1	3	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0110435
45	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574
46	1	1	1/3	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	3	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1	1	1/3	1/3	1	1	3	3	3	3	1	3	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0110435
47	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1	1/3	1/3	1/3	1	1/3	1/5	0.0088851
48	1	1/3	1/3	1/5	1/3	1/5	1/3	1	1	1	1/3	1	1	1	1	1	1	1/5	1/5	1	1	1	1	1	1/3	1/5	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1/5	1	1	1	1/3	1/3	1/3	1/3	1	1/3	1/5	0.0083495
49	1	1	1/3	1/3	1/3	1/3	1	1	3	3	1	1	1	1	1	1	3	1/3	1/3	1	1	1	1	1	1	1/3	1	3	1	1	3	1/3	1/3	1	1	3	3	3	3	3	3	3	3	1	1/3	1	1	3	1	1	1	1/3	3	1/3	1/3	0.0146614
50	3	1	1	1/3	1	1/3	1	3	3	3	1	3	3	3	3	3	3	1/3	1/3	3	3	3	3	3	1	1/3	3	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	3	1/3	3	3	3	1	1	1	1	3	1	1/3	0.023243
51	3	1	1	1/3	1	1/3	1	3	3	3	1	1	3	3	3	3	3	1/3	1/3	3	3	3	3	3	1	1/3	3	3	3	1	3	1	1	1	1	3	3	3	3	3	3	3	3	3	1/3	3	3	3	1	1	1	1	3	1	1/3	0.0227833
52	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
53	1	1/3	1/5	1/7	1/5	1/7	1/3	1	1	1	1/3	1/3	1	1	1	1	1	1/7	1/7	1	1	1	1	1	1/3	1/7	1	1	1	1/3	1	1/5	1/5	1/3	1/3	1	1	1	1	1	1	1	1	1	1/7	1	1	1	1/3	1/3	1/3	1/5	1	1/5	1/7	0.0074163
54	3	1	1	1/3	1	1/3	1	3	3	3	3	3	3	3	3	3	5	1/3	1/3	3	3	3	3	3	3	1/3	3	3	3	1	5	1	1	1	3	5	5	5	5	5	5	5	3	3	1/3	3	3	3	3	1	1	1	5	1	1/3	0.0278286
55	5	3	3	1	3	1	3	5	5	5	3	5	5	5	5	5	7	1	1	5	5	5	5	5	3	1	5	5	5	3	7	3	3	3	3	7	7	7	7	7	7	7	5	5	1	5	5	5	3	3	3	3	7	3	1	0.0528574

Maximum peculiar value λmax = 56.857

The index of adjustment C. I. = 0.0344

The Comparison table of the importance of Alternative Spots in Traffic volume

Alternative Spots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	9	9	9	9	9	1	1	1	1	1	5	5	5	5	5	5	5	5	9	9	9	9	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	0.0330489
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	9	9	9	9	1	1	1	1	1	5	5	5	5	5	5	5	5	9	9	9	9	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	0.0323953
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	9	9	9	9	1	1	1	1	1	3	3	3	3	3	3	3	5	9	9	9	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0269276
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	9	9	9	9	1	1	1	1	1	3	3	3	3	3	3	3	5	9	9	9	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0269276
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	3	3	3	3	3	3	3	3	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0242322
17	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0188215
18	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	0.005177
19	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	0.005177
20	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	0.005177
21	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	0.005177
22	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	0.005177
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	1	1	1	1	1	3	3	3	3	3	3	3	3	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0256038
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	1	1	1	1	1	3	3	3	3	3	3	3	3	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0256038
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	1	1	1	1	1	3	3	3	3	3	3	3	3	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0256038
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	1	1	1	1	1	3	3	3	3	3	3	3	3	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0256038
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	1	1	1	1	1	3	3	3	3	3	3	3	3	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0256038
28	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
29	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
30	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
31	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
32	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
33	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
34	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0102418
35	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0100533
36	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	0.005274
37	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	0.005274
38	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	0.005274
39	1/9	1/9	1/9	1/9	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1	1	1	1	1	1/7	1/7	1/7	1/7	1/7	1	1	1	1	1	1	1	1	1	1	1	1	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	0.005274
40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
42	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
44	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
46	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
47	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
48	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
49	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
50	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
51	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0182533
52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0199002
53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0199002
54	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534
55	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206534

Maximum peculiar value λ max= 57.883

The index of adjustment C. I. = 0.0534

The Comparison table of the importance of Alternative Spots in Enviromental evaluation

AlternativeSpots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
2	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
3	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
4	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
5	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
6	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
7	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
8	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
9	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
10	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
11	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
12	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
13	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
14	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
15	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
16	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	5	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071061
17	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
18	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
19	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
20	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
21	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
22	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
23	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
24	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
25	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
26	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
27	1/7	1/5	1/3	1/3	1/5	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/5	1/7	1/7	1/5	1/5	1/5	1/3	1/5	1/5	1/5	1	1/3	1/3	1/3	1	1/5	1/3	1/3	1/3	3	3	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/7	1/5	1/5	1/5	1/3	1/5	1/3	1/7	1/3	1/7	1/7	0.0036486
28	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	5	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071061
29	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	5	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071061
30	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
31	1/7	1/5	1/3	1/3	1/5	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/5	1/7	1/7	1/5	1/5	1/5	1/3	1/5	1/5	1/5	1	1/3	1/3	1/3	1	1/5	1/3	1/3	1/3	3	3	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/7	1/5	1/5	1/5	1/3	1/5	1/3	1/7	1/3	1/7	1/7	0.0036486
32	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
33	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	5	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071061
34	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
35	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
36	1/9	1/7	1/7	1/7	1/7	1/9	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/5	1/7	1/9	1/9	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/3	1/5	1/5	1/7	1/3	1/7	1/5	1/7	1/7	1	1	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/9	1/7	1/7	1/7	1/7	1/7	1/5	1/9	1/7	1/9	1/9	0.002238
37	1/9	1/7	1/5	1/5	1/7	1/9	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/5	1/7	1/9	1/9	1/7	1/7	1/7	1/5	1/7	1/7	1/7	1/3	1/5	1/5	1/5	1/3	1/7	1/5	1/5	1/5	1	1	1/5	1/5	1/7	1/7	1/7	1/7	1/7	1/9	1/7	1/7	1/7	1/5	1/7	1/5	1/9	1/5	1/9	1/9	0.0023791
38	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
39	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
40	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
41	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
42	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
43	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
44	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
45	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
46	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
47	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
48	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
49	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
50	1/3	1	3	3	1	1/3	1	1	1	1	1	1	1	1	1	3	1	1/3	1/3	1	1	1	3	1	1	1	5	3	3	3	5	1	3	3	3	7	7	3	3	1	1	1	1	1	1/3	1	1	1	3	1	3	1/3	3	1/3	1/3	0.0186338
51	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	5	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071061
52	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
53	1/5	1/3	1	1	1/3	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/5	1/5	1/3	1/3	1/3	1	1/3	1/3	1/3	3	1	1	1	3	1/3	1	1	1	7	5	1	1	1/3	1/3	1/3	1/3	1/3	1/5	1/3	1/3	1/3	1	1/3	1	1/5	1	1/5	1/5	0.0071497
54	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145
55	1	3	5	5	3	1	3	3	3	3	3	3	3	3	3	5	3	1	1	3	3	3	5	3	3	3	7	5	5	5	7	3	5	5	5	9	9	5	5	3	3	3	3	3	1	3	3	3	5	3	5	1	5	1	1	0.0449145

Maximum peculiar value λmax = 56.101

The index of adjustment C. I. = 0.0204

The Comparison table of the importance of Alternative Spots in Natural condition

AlternativeSpots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
2	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
3	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
4	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
5	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
6	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
7	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
8	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
9	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
10	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
11	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
12	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
13	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
14	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
15	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
16	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
17	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
18	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
19	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
20	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
21	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
22	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
23	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
24	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
25	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
26	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
27	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
28	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
29	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
30	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
31	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
32	1	1	3	9	3	9	3	1	9	3	3	1	1	1	3	1	1	3	9	3	9	3	9	1	1	1	1	3	1	1	1	1	1	3	1	1	1	3	3	3	3	9	9	1	9	3	9	3	1	1	1	3	3	9	9	0.0299041
33	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
34	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
35	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
36	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
37	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
38	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
39	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
40	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
41	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
42	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
43	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
44	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
45	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
46	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
47	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
48	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
49	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
50	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
51	1	1	3	9	3	9	3	1	9	5	3	1	1	1	5	1	1	5	9	3	9	5	9	1	1	1	1	5	1	1	1	1	1	3	1	1	1	5	5	3	3	9	9	1	9	3	9	3	1	1	1	5	3	9	9	0.0322106
52	1/5	1/5	1/3	3	1/3	3	1/3	1/3	3	1	1/3	1/5	1/5	1/3	1	1/3	1/5	1	3	1/3	3	1	3	1/3	1/3	1/5	1/3	1	1/5	1/5	1/5	1/3	1/5	1/3	1/5	1/5	1/5	1	1	1/3	1/3	3	3	1/5	3	1/3	3	1/3	1/5	1/5	1/5	1	1/3	3	3	0.006833
53	1/3	1/3	1	7	1	7	1	1/3	7	3	1	1/3	1/3	1/3	3	1/3	1/3	3	7	1	7	3	7	1/3	1/3	1/3	1/3	3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	3	3	1	1	7	7	1/3	7	1	7	1	1/3	1/3	1/3	3	1	7	7	0.01407
54	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047
55	1/9	1/9	1/7	1	1/7	1	1/7	1/9	1	1/3	1/7	1/9	1/9	1/9	1/3	1/9	1/9	1/3	1	1/7	1	1/3	1	1/9	1/9	1/9	1/9	1/3	1/9	1/9	1/9	1/9	1/9	1/7	1/9	1/9	1/9	1/3	1/3	1/7	1/7	1	1	1/9	1	1/7	1	1/7	1/9	1/9	1/9	1/3	1/7	1	1	0.0028047

Maximum peculiar value λ max= 56.425

The index of adjustment C. I. = 0.0264

The Comparison table of the importance of Alternative Spots in Benefit B/C

AlternativeSpots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	1	1	1/5	1/3	1	1/3	3	1	1	3	1	1	1	1	1	1	1	1	1
2	1	1	1/5	1/3	1	1/3	3	1	1	3	1	1	1	1	1	1	3	1	1
3	5	5	1	1	1	1	7	5	5	7	5	5	5	7	5	3	7	1	1
4	3	3	1	1	1	1	7	5	5	7	5	3	5	5	3	3	5	1	1
5	1	1	1	1	1	1	5	3	5	5	3	1	1	5	1	1	5	1	1
6	3	3	1	1	1	1	7	5	5	7	5	3	5	5	3	3	5	1	1
7	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/5	1	1/5	1/5
8	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
9	1	1	1/5	1/5	1/5	1/5	1	1	1	1	1	1	1	1	1	1/3	1	1/3	1/5
10	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/3	1	1/5	1/5
11	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
12	1	1	1/5	1/3	1	1/3	3	1	1	3	1	1	1	1	1	1	3	1	1
13	1	1	1/5	1/5	1	1/5	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1/7	1/5	1/5	1/5	1	1	1	1	1	1	1	1	1	1/3	1	1/5	1/5
15	1	1	1/5	1/3	1	1/3	3	1	1	3	1	1	1	1	1	1	1	1	1
16	1	1	1/3	1/3	1	1/3	5	1	3	3	1	1	1	3	1	1	3	1	1
17	1	1/3	1/7	1/5	1/5	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/5
18	1	1	1	1	1	1	5	3	3	5	3	1	1	5	1	1	5	1	1
19	1	1	1	1	1	1	5	3	5	5	3	1	1	5	1	1	5	1	1
20	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1/3	1	1/3	1/5
21	1	1	1/5	1/5	1	1/3	3	1	1	3	1	1	1	1	1	1	1	1	1
22	1	1	1/5	1/5	1	1/5	3	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	5	5	5	5	5	1	3	5	1	1	5	1	1
24	1	1	1	1	1	1	5	5	5	5	3	1	3	5	1	1	5	1	1
25	3	3	1	1	1	1	7	5	5	5	5	3	5	5	3	1	5	1	1
26	5	5	1	1	3	1	9	7	7	7	5	5	5	7	5	5	7	3	3
27	1	1	1/3	1/3	1	1	5	3	3	5	1	1	1	3	1	1	3	1	1
28	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/5	1	1/5	1/5
29	1/5	1/5	1/9	1/9	1/7	1/9	1	1/3	1/3	1	1/3	1/5	1/5	1/3	1/5	1/5	1	1/7	1/7
30	1/5	1/5	1/9	1/9	1/5	1/9	1	1	1	1	1/3	1/5	1/3	1	1/5	1/5	1	1/5	1/5
31	1/3	1/5	1/9	1/7	1/5	1/7	1	1	1	1	1	1/5	1/3	1	1/3	1/5	1	1/5	1/5
32	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/3	1	1/5	1/5
33	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
34	1/3	1/3	1/7	1/5	1/5	1/5	1	1	1	1	1	1/3	1	1	1/3	1/3	1	1/5	1/5
35	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/5	1	1/5	1/5
36	1/3	1/5	1/9	1/7	1/5	1/7	1	1	1	1	1	1/5	1/3	1	1/3	1/5	1	1/5	1/5
37	1/5	1/5	1/9	1/9	1/5	1/9	1	1	1	1	1/3	1/5	1/3	1	1/5	1/5	1	1/5	1/5
38	1/3	1/3	1/7	1/7	1/5	1/7	1	1	1	1	1	1/3	1	1	1/3	1/3	1	1/5	1/5
39	1/3	1/3	1/9	1/7	1/5	1/7	1	1	1	1	1	1/3	1/3	1	1/3	1/5	1	1/5	1/5
40	1	1	1/5	1/5	1	1/5	3	1	1	3	1	1	1	1	1	1	1	1	1
41	1	1	1/5	1/5	1	1/5	1	1	1	1	1	1	1	1	1	1	1	1	1
42	1	1	1/5	1/5	1/5	1/5	1	1	1	1	1	1	1	1	1	1/3	1	1/5	1/5
43	1	1	1/5	1/5	1	1/5	1	1	1	1	1	1	1	1	1	1	1	1	1
44	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1	1/3
45	1	1	1/3	1/3	1	1/3	3	1	3	3	1	1	1	3	1	1	3	1	1
46	1	1	1/3	1/3	1	1	5	3	3	5	1	1	1	3	1	1	3	1	1
47	1	1	1/3	1/3	1	1/3	3	1	3	3	1	1	1	3	1	1	3	1	1
48	1	1	1	1	1	1	5	3	5	5	3	1	1	5	1	1	5	1	1
49	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
50	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
51	1	1	1/5	1/5	1	1/5	3	1	1	3	1	1	1	1	1	1	1	1	1
52	1	1	1	1	1	1	5	5	5	5	3	1	3	5	1	1	5	1	1
53	1	1	1/5	1/5	1/3	1/5	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3
54	3	1	1	1	1	1	5	5	5	5	5	1	3	5	3	1	5	1	1
55	1	1	1	1	1	1	5	5	5	5	3	1	3	5	1	1	5	1	1

AlternativeSpots	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
1	1	1	1	1	1	1/3	1/5	1	3	5	5	3	3	1	3	3	3	5	3
2	1	1	1	1	1	1/3	1/5	1	3	5	5	5	3	1	3	3	5	5	3
3	5	5	5	1	1	1	1	3	7	9	9	9	7	5	7	7	9	9	7
4	5	5	5	1	1	1	1	3	7	9	9	7	7	5	5	7	7	9	7
5	3	1	1	1	1	1	1/3	1	5	7	5	5	5	3	5	5	5	5	5
6	5	3	5	1	1	1	1	1	7	9	9	7	7	5	5	7	7	9	7
7	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1/5	1/5	1/5	1/7	1/3	1	3	1	1	1	1	1	1	1	1	1
9	1	1	1	1/5	1/5	1/5	1/7	1/3	1	3	1	1	1	1	1	1	1	1	1
10	1	1/3	1	1/5	1/5	1/5	1/7	1/5	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1/5	1/3	1/5	1/5	1	1	3	3	1	1	1	1	1	1	3	1
12	1	1	1	1	1	1/3	1/5	1	3	5	5	5	3	1	3	3	5	5	3
13	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	3	1	1	1	1	3	3	1
14	1	1	1	1/5	1/5	1/5	1/7	1/3	1	3	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1/3	1/5	1	3	5	5	3	3	1	3	3	3	5	3
16	3	1	1	1	1	1	1/5	1	5	5	5	5	3	1	3	5	5	5	3
17	1	1	1	1/5	1/5	1/5	1/7	1/3	1	1	1	1	1	1	1	1	1	1	1
18	3	1	1	1	1	1	1/3	1	5	7	5	5	5	3	5	5	5	5	5
19	5	1	1	1	1	1	1/3	1	5	7	5	5	5	3	5	5	5	5	5
20	1	1	1	1/5	1/5	1/5	1/7	1/3	1	3	1	1	1	1	1	1	1	1	1
21	1	1	1	1/3	1	1/3	1/5	1	3	5	5	3	3	1	1	3	3	5	3
22	1	1	1	1/3	1	1/3	1/5	1	3	5	5	3	1	1	1	3	3	3	1
23	5	3	3	1	1	1	1	1	5	9	7	5	5	3	5	5	5	7	5
24	5	1	1	1	1	1	1	1	5	7	5	5	5	3	5	5	5	5	5
25	5	3	3	1	1	1	1	1	7	9	9	7	5	5	5	7	7	7	5
26	7	5	5	1	1	1	1	3	9	9	9	9	7	5	7	9	9	9	7
27	3	1	1	1	1	1	1/3	1	5	5	5	5	5	1	3	5	5	5	5
28	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
29	1/3	1/5	1/5	1/9	1/7	1/9	1/9	1/5	1	1	1	1	1	1/5	1	1	1	1	1
30	1	1/5	1/5	1/7	1/5	1/9	1/9	1/5	1	1	1	1	1	1/3	1	1	1	1	1
31	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
32	1	1/3	1	1/5	1/5	1/5	1/7	1/5	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	1	1	1	1	1	1	3	1
34	1	1	1	1/5	1/5	1/5	1/7	1/3	1	1	1	1	1	1	1	1	1	1	1
35	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
36	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
37	1	1/5	1/3	1/7	1/5	1/7	1/9	1/5	1	1	1	1	1	1/3	1	1	1	1	1
38	1	1/3	1	1/5	1/5	1/5	1/7	1/5	1	1	1	1	1	1	1	1	1	1	1
39	1	1/3	1/3	1/5	1/5	1/7	1/9	1/5	1	1	1	1	1	1	1	1	1	1	1
40	1	1	1	1/3	1	1/3	1/5	1	3	5	5	3	3	1	1	3	3	5	1
41	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	3	1	1	1	1	3	3	1
42	1	1	1	1/5	1/5	1/5	1/7	1/3	1	3	1	1	1	1	1	1	1	1	1
43	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	3	1	1	1	1	3	3	1
44	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	3	1	1	1	1	3	3	1
45	3	1	1	1	1	1/3	1/5	1	5	5	5	5	3	1	3	5	5	5	3
46	3	1	1	1	1	1	1/3	1	5	5	5	5	5	1	3	5	5	5	5
47	3	1	1	1	1	1/3	1/5	1	5	5	5	5	3	1	3	5	5	5	3
48	3	1	1	1	1	1	1/3	1	5	7	5	5	5	3	5	5	5	5	5
49	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	1	1	1	1	1	1	3	1
50	1	1	1	1/5	1/3	1/5	1/5	1	1	3	3	1	1	1	1	1	1	1	1
51	1	1	1	1/3	1	1/3	1/5	1	3	5	5	3	3	1	1	3	3	5	1
52	5	1	1	1	1	1	1	1	5	7	5	5	5	3	5	5	5	5	5
53	1	1	1	1/3	1/3	1/5	1/5	1	1	5	3	1	1	1	1	1	1	3	1
54	5	3	3	1	1	1	1	1	5	9	7	7	5	5	5	5	7	7	5
55	5	1	1	1	1	1	1	1	5	7	5	5	5	3	5	5	5	5	5

AlternativeSpots	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0168113
2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0178245
3	9	5	5	5	5	5	3	3	3	1	5	5	5	1	5	1	1	0.0518994
4	7	5	5	5	5	5	3	3	3	1	5	5	5	1	5	1	1	0.0482422
5	5	1	1	5	1	3	1	1	1	1	3	3	1	1	3	1	1	0.0275594
6	7	5	5	5	5	5	3	1	3	1	5	5	5	1	5	1	1	0.0459244
7	1	1/3	1	1	1	1	1/3	1/5	1/3	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0069827
8	1	1	1	1	1	1	1	1/3	1	1/3	1	1	1	1/5	1	1/5	1/5	0.0097213
9	1	1	1	1	1	1	1/3	1/3	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.0089043
10	1	1/3	1	1	1	1	1/3	1/5	1/3	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0072465
11	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0108939
12	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0178245
13	3	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	1/3	1/3	0.0128928
14	1	1	1	1	1	1	1/3	1/3	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.0087682
15	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0168113
16	5	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0206329
17	1	1	1	1	1	1	1/3	1/3	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.0082582
18	5	1	1	5	1	1	1	1	1	1	3	3	1	1	3	1	1	0.0267648
19	5	1	1	5	1	3	1	1	1	1	3	3	1	1	3	1	1	0.0278168
20	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1	1/5	1	1/5	1/5	0.0090713
21	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0180036
22	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0147954
23	5	3	3	5	3	3	1	1	1	1	3	5	3	1	3	1	1	0.0341273
24	5	1	3	5	3	3	1	1	1	1	3	3	1	1	3	1	1	0.0304114
25	7	3	5	5	5	5	3	1	3	1	5	5	3	1	5	1	1	0.0427671
26	9	5	5	7	5	5	5	3	5	3	5	5	5	1	5	1	1	0.0598228
27	5	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0222867
28	1	1/3	1	1	1	1	1/5	1/5	1/5	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0066346
29	1	1/5	1/5	1/3	1/5	1/5	1/5	1/5	1/5	1/7	1/5	1/3	1/5	1/7	1/5	1/9	1/7	0.0041384
30	1	1/5	1/3	1	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1/5	1/3	1/7	1/5	0.0051418
31	1	1/3	1/3	1	1/3	1/3	1/5	1/5	1/5	1/5	1	1	1/3	1/5	1	1/7	1/5	0.0061278
32	1	1/3	1	1	1	1	1/3	1/5	1/3	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0072465
33	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0110982
34	1	1	1	1	1	1	1/3	1/3	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.0078348
35	1	1/3	1	1	1	1	1/5	1/5	1/5	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0066346
36	1	1/3	1/3	1	1/3	1/3	1/5	1/5	1/5	1/5	1	1	1/3	1/5	1	1/7	1/5	0.0061278
37	1	1/5	1/3	1	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1	1/5	1/5	1/3	1/7	1/5	0.0063188
38	1	1	1	1	1	1	1/3	1/5	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.0075419
39	1	1/3	1/3	1	1/3	1	1/5	1/5	1/5	1/5	1	1	1/3	1/5	1	1/5	1/5	0.0064077
40	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0155421
41	3	1	1	1	1	1	1	1	1	1	1	1	1/3	1	1/3	1/3		0.0128828
42	1	1	1	1	1	1	1/3	1/3	1/3	1/5	1	1	1	1/5	1	1/5	1/5	0.008822
43	3	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	1/3	1/3	0.0128828
44	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0117835
45	5	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0200379
46	5	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0222867
47	5	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0200379
48	5	1	1	5	1	3	1	1	1	1	3	3	1	1	3	1	1	0.0275594
49	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0110982
50	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0106785
51	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	0.0155421
52	5	1	3	5	3	3	1	1	1	1	3	3	1	1	3	1	1	0.0304114
53	1	1	1	1	1	1	1	1	1	1/3	1	1	1	1/3	1	1/5	1/3	0.0110982
54	5	3	3	5	3	5	1	1	1	1	5	5	3	1	5	1	1	0.0373164
55	5	1	3	5	3	3	1	1	1	1	3	3	1	1	3	1	1	0.0304114

Maximum peculiar value λmax = 58.457

The index of adjustment C. I. = 0.064

The Comparison table of the importance of Alternative Spots in Restoration level

Alternative Spots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1/3	1	1/7	1/7	1/5	1/5	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1/3	1/5	1/3	1/7	1/3	1	1	1/3	1	1	0.0054081
2	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1/3	1	1/7	1/7	1/5	1/5	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1/3	1/5	1/3	1/7	1/3	1	1	1/3	1	1	0.0054081
3	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
4	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
5	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1/3	1	1/3	1	1	1	1	1	1	0.0105082
7	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
8	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
9	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
10	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
11	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
12	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
13	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
14	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
15	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
16	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
17	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
18	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
19	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
20	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
21	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
22	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
23	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
24	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
25	5	5	3	3	1	3	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	5	3	1	3	3	0.0210243
26	5	5	5	5	1	3	1	1	1	1	1	3	1	1	1	3	5	3	1	1	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	3	1	3	1	1	5	5	1	5	5	0.0252933
27	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
28	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
29	7	7	7	7	3	5	3	3	3	3	3	5	3	3	3	5	7	5	3	3	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	3	3	1	3	3	3	1	5	1	5	1	3	7	7	3	7	7	0.0422726
30	7	7	7	7	3	5	3	3	3	3	3	5	3	3	3	5	7	5	3	3	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	3	3	1	3	3	3	1	5	1	5	1	3	7	7	3	7	7	0.0422726
31	7	7	7	7	3	5	3	3	3	3	3	5	3	3	3	5	7	5	3	3	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	3	3	1	3	3	3	1	5	1	5	1	3	7	7	3	7	7	0.0422726
32	7	7	7	7	3	5	3	3	3	3	3	5	3	3	3	5	7	5	3	3	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	3	3	1	3	3	3	1	5	1	5	1	3	7	7	3	7	7	0.0422726
33	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
34	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
35	7	7	7	7	3	5	3	3	3	3	3	5	3	3	3	5	7	5	3	3	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	3	3	1	3	3	3	1	5	1	5	1	3	7	7	3	7	7	0.0422726
36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1/3	1	1/3	1	1	1	1	1	1	0.0105082
37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1/3	1	1/3	1	1	1	1	1	1	0.0105082
38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1/3	1	1/3	1	1	1	1	1	1	0.0105082
39	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
40	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
41	5	5	5	5	1	3	1	1	1	1	1	3	1	1	1	3	5	3	1	1	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	3	1	3	1	1	5	5	1	5	5	0.0252933
42	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
43	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
44	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
45	5	5	5	5	1	3	1	1	1	1	1	3	1	1	1	3	5	3	1	1	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	3	1	3	1	1	5	5	1	5	5	0.0252933
46	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
47	5	5	3	3	1	3	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	5	3	1	3	3	0.0210243
48	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1	1/3	1/3	1/3	1/5	1/5	1/5	1/5	1/3	1/3	1/5	1	1	1	1	1	1/3	1	1	1	1/3	1	1	1	1/3	1	3	1	1	1	1	0.0116119
49	7	7	5	5	3	3	3	1	1	1	1	3	1	3	1	3	5	3	1	3	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	3	1	1	7	5	3	5	5	0.029042
50	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1	1	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	3	3	0.0170823
51	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1/3	1	1/7	1/7	1/5	1/5	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1/3	1/5	1/3	1/7	1/3	1	1	1/3	1	1	0.0054081
52	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
53	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1	3	3	1	3	3	0.0148532
54	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828
55	1	1	1	1	1/3	1	1/3	1/3	1/3	1/3	1/3	1	1/3	1/3	1/3	1	1	1	1/3	1/3	1	1	1/5	1/5	1/3	1/5	1/5	1/5	1/7	1/7	1/7	1/7	1/5	1/5	1/7	1	1	1	1/3	1/3	1/5	1/3	1/3	1/3	1/5	1	1/3	1	1/5	1/3	1	1	1/3	1	1	0.0064828

Maximum peculiar value λ_{max} = 57.641

The index of adjustment C. I. = 0.0489

The Comparison table of the importance of Alternative Spots in Development situation

AlternativeSpots	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	Weight
1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
2	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
3	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.01139819
4	1/3	1/3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.01139819
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02365508
17	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
18	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
19	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
20	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
21	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
22	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
23	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
24	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
25	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
26	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
27	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
28	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
29	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
30	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
31	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
32	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
33	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
34	1/5	1/5	1/3	1/3	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	1	1	3	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	0.00428548
35	1/7	1/7	1/5	1/5	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1/9	1/9	1/9	1/9	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/5	1/5	1/5	1/5	1/5	0.00285397
36	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7	7	7	7	7	7	7	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02581409
37	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7	7	7	7	7	7	7	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02581409
38	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7	7	7	7	7	7	7	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02581409
39	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7	7	7	7	7	7	7	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02581409
40	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
41	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
42	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
43	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
44	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
45	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
46	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
47	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
48	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
49	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
50	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	5	5	5	5	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	0.02461922
51	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
52	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
53	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
54	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727
55	1/3	1/3	1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	3	3	3	3	3	3	3	5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1	1	1	1	1	0.00896727

Maximum peculiar value $\lambda max = 55.796$

The index of adjustment $C. I. = 0.0147$

An Evaluation Points for Restoration level

Route No.	Name of city	Sireal Number of Disaster Critical spots	Type of disaster	Distance from Managua	Length of slope and Bridge(m)	Evaluation					
						Distannce from Managua	Space for diversion	Condition of detour road	Type of disaster	The scale of Disaster	Total
Nic1		1	R.F.	100	890	1	1	1	2	5	10
		2	R.F.	100	350	1	1	1	2	5	10
	Sebaco	3	Bridge	150	29.3	2	1	1	4	3	11
		4	Bridge	150	18.6	2	1	3	4	1	11
	Esteli	5	Bridge	200	62	3	1	3	4	3	14
		6	Bridge	200	15.5	3	1	3	4	1	12
		7	R.F.	200	600	3	1	3	2	5	14
		8	R.C.	200	280	3	1	3	3	5	15
		9	R.C.	200	200	3	1	3	3	5	15
		10	R.C.	200	440	3	1	3	3	5	15
		11	R.C.	200	460	3	1	3	3	5	15
		12	R.C.	200	130	3	1	3	3	3	13
		13	R.C.	200	360	3	1	3	3	5	15
		14	R.F.	200	240	3	1	3	2	5	14
		15	R.C.	200	220	3	1	3	3	5	15
		16	R.C.	200	120	3	1	3	3	3	13
	Yaraguina	17	R.F.	250	110	4	1	1	2	3	11
		18	Bridge	250	64	4	1	1	4	3	13
		19	Bridge	250	109	4	1	1	4	5	15
		20	R.C.	250	200	4	1	1	3	5	14
		21	R.F.	250	230	4	1	1	2	5	13
	El Espino	22	R.F.	250	145	4	1	1	2	3	11
Nic3	Sebaco	23	R.C.	150	130	2	5	5	3	3	18
		24	R.C.	150	170	2	5	5	3	3	18
		25	R.C.	150	90	2	5	5	3	1	16
		26	Bridge	150	17.5	2	5	5	4	1	17
		27	R.C.	150	150	2	5	5	3	3	18
	Matagalpa	28	R.C.	150	110	2	5	5	3	3	18
		29	S.S.	150	180	2	5	5	5	3	20
		30	D.F.	150	150	2	5	5	5	3	20
		31	S.S.	150	140	2	5	5	5	3	20
		32	S.S.	150	192	2	5	5	5	3	20
		33	S.S.	150	45	2	5	5	5	1	18
	Jinotega	34	R.C.	150	180	2	5	5	3	3	18
Nic5		35	R.F.	200	200	3	5	5	2	5	20
Nic15	Ocotal	36	D.F.	250	45	4	1	1	5	1	12
		37	D.F.	250	65	4	1	1	5	1	12
		38	D.F.	250	70	4	1	1	5	1	12
	LasManos	39	D.F.	250	100	4	1	1	5	3	14
Nic26	San Isidor	40	R.F.	150	105	2	5	3	2	3	15
		41	R.F.	150	235	2	5	3	2	5	17
		42	R.F.	150	160	2	5	3	2	3	15
		43	R.F.	150	115	2	5	3	2	3	15
		44	R.F.	150	160	2	5	3	2	3	15
		45	Bridge	150	31	2	5	3	4	3	17
		46	R.F.	150	77	2	5	3	2	1	13
		47	R.C.	150	110	2	5	3	3	3	16
		48	R.F.	150	60	2	5	3	2	1	13
		49	R.C.	150	300	2	5	3	3	5	18
		50	R.F.	150	150	2	5	3	2	3	15
	El Jicalal	51	R.C.	150	90	2	3	1	3	1	10
		52	Bridge	150	17.9	2	3	1	4	1	11
		53	R.C.	150	280	2	3	1	3	5	14
		54	Bridge	150	7.2	2	3	1	4	1	11
	Telica	55	Bridge	150	5.1	2	3	1	4	1	11

Evaluation Criteria			Point
Distance from Managua		≦100km	1
		100＜L≦150km	2
		150＜L≦200km	3
		200km＜L	4
Space for management or calamity restoration		There is a enough space	1
		There is not a enough space	5
		The above-mentioned middle	3
Condition of detour road		There is a detour.	1
		There is no detour.	5
		Much time is required for detour	5
Type of disaster		Rock Falling (R.F.)	2
		Rock Collapsing (R.C.)	3
		Slop slide (S.S.)	5
		Debris Flow (D.F.)	5
		Scoring of fundation (Bridge)	4
Length of slope and Bridge	Slope	≦100m	1
		100＜L≦200m	3
		200m＜L	5
	Bridge	≦20m	1
		20＜L≦100m	3
		100m＜L	5

Development situation and an Evaluation Points

Route No.	Section		Serial Number of Disaster Critical Spots	The outline of a project	Evaluation	Total
Nic1	Sanbenito	Sebaco	1,2	Base point	1	10
				Road improvement construction will be completed in 2002.	5	
				Two bridges were reconstructed by the Japanese grantaide	4	
	Sebaco	Esteli	3,4	Base point	1	6
				Road improvement construction will be completed in 2002.	5	
	Esteli	Yaraguina	5～16	Base point	1	9
				Road improvement construction will be completed in 2002.	5	
				Two bridges were reconstructed by the IDBC	2	
				There is an urban development design in Esteli	1	
	Yaraguina	El Espino	17～22	Base point	1	10
				Road improvement construction will be completed in 2002.	5	
				Road improvement construction between Somot toSan Lucas will be completed in 2002.	3	
				There is an urban development design in Somot	1	
Nic3	Sebaco	Matagalpa	23～27	Base point	1	5
				A bridge was reconstructed	2	
				Grants-in-aid (Denmark) of the shortcut road to Jinotega are determin	1	
				There is an urban development design in Mtagalpa	1	
	Matagalpa	Jinotega	28～34	Base point	1	2
				There is an urban development design in Jinotega	1	
Nic5	Matagalpa	El Tuna	35	Base point	1	1
Nic15	Yalaguina	Ocotal		Base point	1	12
				Road improvement construction will be completed in 2002.	5	
				One bridge was reconstructed	2	
				Improvement construction for the road conect to the object road and J	3	
				There is an urban development design in Ocotal	1	
	Ocotal	LasManos	36～39	Base point	1	13
				Road improvement construction will be completed in 2002.	5	
				Four bridges were reconstructed	8	
Nic26	El Jicalal	San Isidoro	40～50	Two bridges were reconstructed	4	10
				Some new School are built by Japanese grants-in-aide	2	
				There is the Plan for road improvement construction project	3	
					1	
	Telica	El Jicalal	51～55	Base point	1	5
				There is the Plan for road improvement construction project	3	
				There is the Plan for improvement construction project for the road between Lapas～Nic24	1	
				Some new School were built by Japanese grants-in-aide	1	

Evaluation Criteria	Pint
Base point	1 ／Section
Road improvement construction will be completed in 2002.	5 ／Project
Reconstruction of bridge on the object road was copleted	2 ／Project
There is the Plan for road improvement construction project on the object road	3 ／Project
There is the Brigde reconstruction of bridge on Object road was copleted	1 ／Project
Improvement construction for the road that conect to the object road will be completed in 2002.	3 ／Project
There is the Plan for improvement construction project for the road that conect to the object road	1 ／Project
the Project for Education or Urbandivelopement will be completed over five years.	2 ／Project
There is the Plan for Education or Urbandivelopement	1 ／Project

Review of Score of Stability Survey

Route No. Nic.1

Serial Number of Disaster Critical Spots	Score of Phase1	Score of Phase2	ID.No	Kilometer from Managua (km)	Type of disaster
1	70	78	N001A290	60.9	R.F.
2	78	84	N001A280	73.2	R.F.
3	90	90	Junquillal	113.19	Bridge
4	100	100	San Nicolas	135.64	Bridge
5	90	90	(R.Estelí)	150.33	Bridge
6	100	100	San Ramón	151.85	Bridge
7	84	84	N001A240	168.4	R.F.
8	72	75	N001B230	168.6	R.C.
9	72	72	N001B200	169.8	R.C.
10	72	72	N001B190	170.7	R.C.
11	78	81	N001B170	171.3	R.C.
12	76	79	N001B150	175.0	R.C.
13	74	76	N001B120	176.2	R.C.
14	76	76	N001A110	178.7	R.F.
15	73	73	N001B100	187.3	R.C.
16	73	76	N001B070	204.7	R.C.
17	70	70	N001A050	214.7	R.F.
18	100	100	Rio Inalí	226.89	Bridge
19	100	100	RíoTapacalí	233.245	Bridge
20	75	75	N001B030	232.5	R.C.
21	73	73	N001A020	233.7	R.F.
22	73	73	N001A010	235.6	R.F.
Sub-total			22spots		

Route No. Nic..3

Serial Number of Disaster Critical Spots	Score of Phase1	Score of Phase2	ID.No	Distance from Sebaco(km) (*Bridge: from Managua)	Type of disaster
23	74	74	003B420	3.9	R.C.
24	72	75	003B400	6.9	R.C.
25	80	80	003B370	7.4	R.C.
26	100	100	El Guayacan	119.05	Bridge
27	74	76	N003B320	22.1	R.C.
28	70	72	N003B240	32.7	R.C.
29	73	73	N003C230	32.9	S.S.
30	83	83	N003E170	35.2	D.F.
31	71	71	N003C160	35.9	S.S.
32	90	90	N003C150	38.9	S.S.
33	90	90	N003C140	39.4	S.S.
34	81	83	N003B120	40	R.C.
Sub-total			12spots		

Review of Score of Stability Survey

Route No. NIC.5

Serial Number of Disaster Critical Spots	Score of Phase1	Score of Phase2	ID.No	Distance from Matagalupa (km)	Type of disaster
35	76	80	N005A010	24.6	R.F.
Sub-total			1spots		

Route No. Nic.15

Serial Number of Disaster Critical Spots	Score of Phase1	Score of Phase2	ID.No	Distance from Las Manos (km)	Type of disaster
36	70	70	N015E010	9.9	D.F.
37	70	70	N015E020	11.1	D.F.
38	70	70	N015E050	11.7	D.F.
39	70	70	N015E060	13.6	D.F.
Sub-total			4spots		

Route No. Nic.26

Serial Number of Disaster Critical Spots	Score of Phase1	Score of Phase2	ID.No	between San Ishidoro & Sebaco (km) (*Bridge:from	Type of disaster
40	71	71	N026A010	9.0	R.F.
41	70	70	N026A020	12.7	R.F.
42	71	71	N026A030	19.9	R.F.
43	72	72	N026A040	20.9	R.F.
44	70	78	N026A060	24.7	R.F.
45	100	100	La Banderita	170+952	Bridge
46	76	78	N026A100	29.3	R.F.
47	73	73	N026B110	29.8	R.C.
48	72	72	N026A130	33.6	R.F.
49	80	80	N026B140	34.0	R.C.
50	85	87	N026A150	34.2	R.F.
51	86	86	N026B160	37.0	R.C.
52	90	90	San Juan de Dios	156+785	Bridge
53	71	71	N026B210	45.5	R.C.
54	90	90	Papalon	108+154	Bridge
55	100	100	Solis	107+533	Bridge
Sub-total			16spots		
Total			Nic.1,3,5,15,26		

R.F. :Rock Falling
R.C. :Rock Collapsing
S.S. :Slop slide
D.F. :Debris Flow
Bridge :Scoring of fundation

Appendix 6

Countermeasures Selection of Slope

Table A6-1 Selection of Prevention Countermeasure Method

ID : N001A290	Topography	The Foot of The Ridge	Height and Incline	H =20 ~ 40 m , θ =45~52 deg.	The kind of The Rock	Alternation of Andesite and Tuff
Situation of Slope	Impact of Rain (Inflow water)	Leak out a little	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rockfalls
	The Dry Season 				The Rainy Season 	
Comments	Because the crack interval of andesite is narrow, subdivided unstable stone is generated a lot. Therefore, many small stones fall. The talus remains thin on the slope, it becomes unstable in the rainy season. Inflow warter is confirmed at whole slope.					

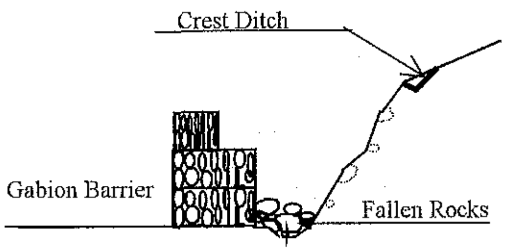
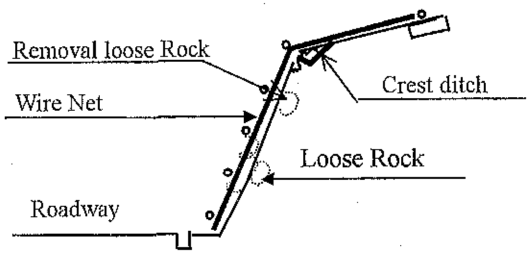
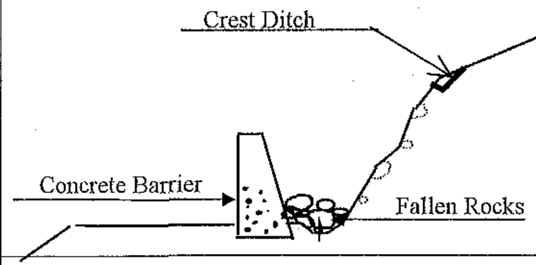
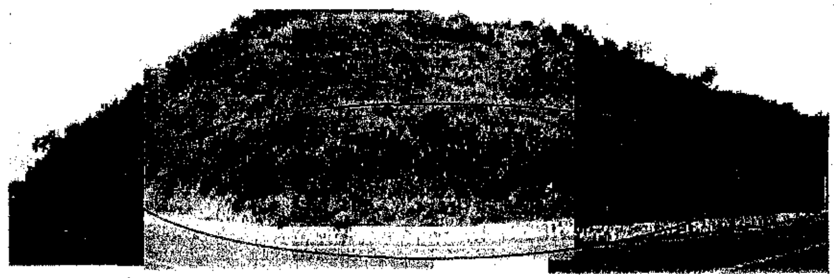
Alternative of Countermeasure	**Removal + Barrier with gabion wall +Drainage** 	**Removal + Prevention net + Drainage** 	**Removal + Barrier with concrete wall + Drainage** 
Workability Structural feature	-Wire of gabion cannot resist against energy of the assumed falling rock. △	-The construction results are not in Nicaragua. -This type is almost permanent structure. ○	- The concrete barrier will be too big size for resistance against energy of the assumed falling rock. △
Environment Impact	-Deterioration of environment will be forecast by damage of gabion. △	-It is necessary to cut trees. △	-Installing the concrete barrier lacks harmony with the surrounding. △
Influence on Road	-It is difficult to stop completely jumping over rock by barrier. Width for construction of barrier is enough. △	-There is no problem. ◎	-It is difficult to stop completely jumping over rock by barrier. Width for construction of barrier is enough. △
Maintenance	-It is necessary to remove collected rock. -Durability depends on the life of the wire. △	-Durability depends on the life of the wire of net. △	-Because the structure is too large, the space for the removal of fallen rocks is necessary. △
Economy	-This alternative is cheapest of all. Because maintenance cost is high, costs of three alternatives is almost even. ○	-Net materials are expensive, but maintenance cost isn't high. ○	-Maintenance cost is high. △
Evaluation	-The gabion isn't steady by the collision of assumed falling rock. 3	-This type prevents completely dispersion of rock collapse. 1	-The concrete barrier isn't steady by the collision of assumed falling rock. 2

Table A6-2 Selection of Prevention Countermeasure Method

ID : N001A280	Topography	The Foot of The Ridge	Height and Incline	H =7 ~ 11 m , θ =45~75 deg.	The kind of The Rock	Tuff
Situation of Slope	Impact of Rain (Inflow water)	Inflow water	Stability Analysis	Necessary	Purpose of Countermeasure	Rockfalls
Situation of Slope	The Dry Season 				The Rainy Season 	

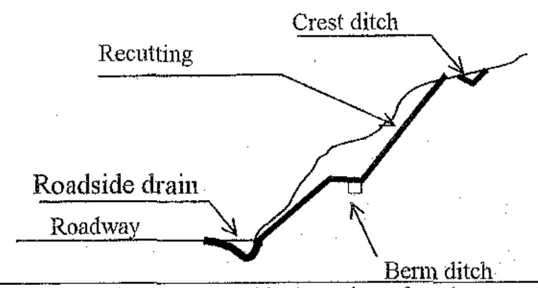
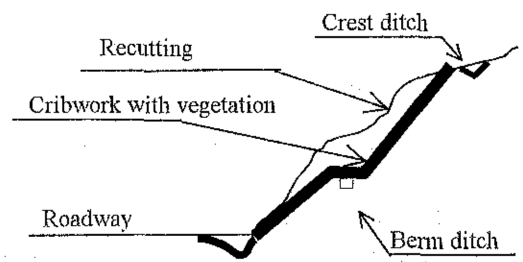
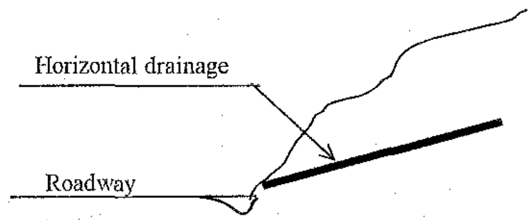
Comments	Red mark is clear slide scarp, blue mark is colluvium. The change was not especially seen through the dry season and rainy season. The stability of the slope is necessary, because the slide scarp approaches to the vicinity of the electric tower(yellow mark). The inflowater from the talus and the installed french drain were confirmed.		
Alternative of Countermeasure	**Recutting ＋ Drainage** 	**Recutting + Cribwork with vegetation +Drainage** 	**Horizontal drainage** 
Workability Structural feature	-The slope become unstable by raise of underground water, but this alternative cannot suppress the rise of underground water level. △	-The slope become unstable by raise of underground water, but this alternative cannot suppress the rise of underground water level. △	-Underground water level is suppressed by horizontal drainage, therefore the slope become stable. ○
Environment Impact	-Slope is expected of natural vegetation. △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○	-The present condition of slope surface will be maintained because it will be not touched. ◎
Influence on Road	-Traffic control is necessary during construction, but here is no influence after construction. ○	-Traffic control is necessary during construction, but here is no influence after construction. ○	-One lane is restricted by the boring. △
Maintenance	-The maintenance is necessary until the vegetation takes root. △	-The maintenance is necessary until the vegetation takes root. △	-The inspection is necessary water volume from the horizontal drainage. ○
Economy	-It is the most economical in three alternatives ○	-The cost of cribwork is expensive. △	-The horizontal drainage is expensive, but other costs are unnecessary ○
Evaluation	-This alternative is beneath in maintenance and environmental. 2	The purpose of cribwork is for the vegetation and it does not take part in stability. 3	-This alternative is economical and effective. 1

Table A6-3 Selection of Prevention Countermeasure Method

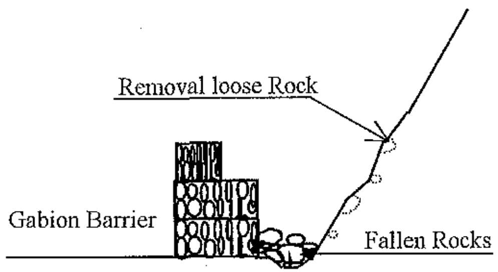
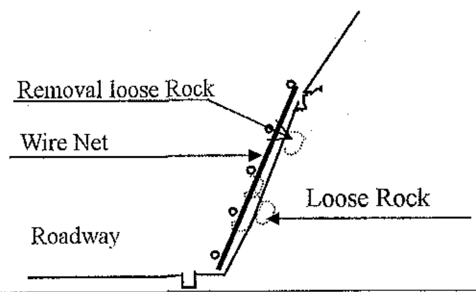
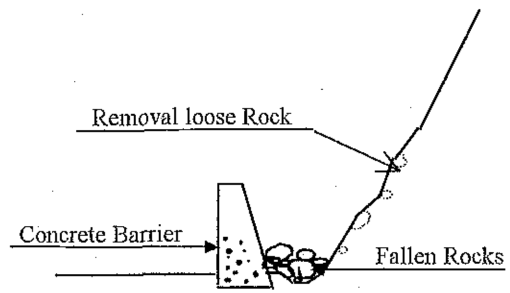
<table>
<tr><td>ID : N001A240</td><td>Topography</td><td>The Foot of The Ridge</td><td>Height and Incline</td><td>H =12 ～ 18 m , θ =45～57 deg.</td><td>The kind of The Rock</td><td colspan="2">Almost Tuff and Andesite is a part.</td></tr>
<tr><td>Situation of Slope</td><td>Impact of Rain (Inflow water)</td><td>No exist</td><td>Stability Analysis</td><td>Unnecessary</td><td>Purpose of Countermeasure</td><td colspan="2">Rockfalls</td></tr>
<tr><td>Situation of Slope</td><td colspan="4">The Dry Season
</td><td colspan="3">The Rainy Season
</td></tr>
<tr><td>Comments</td><td colspan="7">Inflow warter was not seen in the rainy season. Loosening advanced and the small rock collapse was confirmed at ten places. There are falling rocks at part marked in red.</td></tr>
<tr><td>Alternative of Countermeasure</td><td colspan="2">Removal + Barrier with gabion wall
</td><td colspan="3">Removal + Prevention net
</td><td colspan="2">Removal + Barrier with concrete wall
</td></tr>
<tr><td>Workability Structural feature</td><td colspan="2">-Wire of gabion cannot resist against energy of the assumed falling rock. △</td><td colspan="3">-The construction results are not in Nicaragua.
-This type is almost permanent structure. ○</td><td colspan="2">- The concrete barrier will be too big size for resistance against energy of the assumed falling rock. △</td></tr>
<tr><td>Environment Impact</td><td colspan="2">-Deterioration of environment will be forecast by damage of gabion. △</td><td colspan="3">-It is necessary to cut trees. △</td><td colspan="2">-Installing the concrete barrier lacks harmony with the surrounding. △</td></tr>
<tr><td>Influence on Road</td><td colspan="2">-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △</td><td colspan="3">-There is no problem. ◎</td><td colspan="2">-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △</td></tr>
<tr><td>Maintenance</td><td colspan="2">-It is necessary to remove collected rock.
-Durability depends on the life of the wire. △</td><td colspan="3">-The environment deterioration is eased by partially constructing the net. △</td><td colspan="2">-It is necessary to remove fallen rocks.
-The maintenance of the structure is unnecessary. ○</td></tr>
<tr><td>Economy</td><td colspan="2">-Because maintenance cost is high, costs of three alternatives are almost even. ○</td><td colspan="3">-Net materials are expensive, but maintenance cost isn't high. ○</td><td colspan="2">-The cost is middle of all. But the costs of three alternatives are almost even. ○</td></tr>
<tr><td>Evaluation</td><td colspan="2">-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 3</td><td colspan="3">-This type prevents completely dispersion of rock collapse. 1</td><td colspan="2">-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 2</td></tr>
</table>

Table A6-4 Selection of Prevention Countermeasure Method

ID : N001B230	Topography	The Foot of The Ridge	Height and Incline	H =13 ~ 33 m , θ =40~65 deg.	The kind of The Rock	Almost Tuff and Andesite is a part.
Situation of Slope	Impact of Rain (Inflow water)	After rain	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	Left side photograph; The part marked in red is andesite, it is distributed in the upper part of slope. Tuff that weathering is early is distributed in the lower part of slope. The andesite becomes on the overhang and falls. Right side photograph; Upper red mark is loose andesite and lower red mark is tuff. Seepage is oozing from the boundary of the andesite and the tuff					

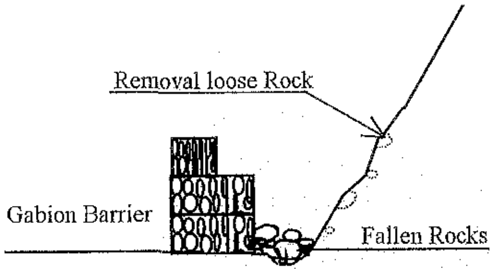
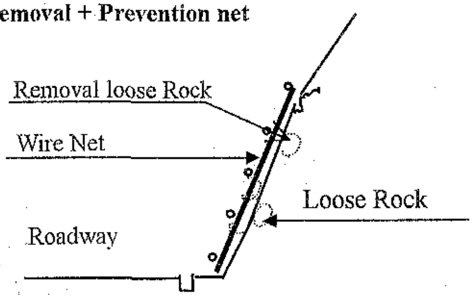
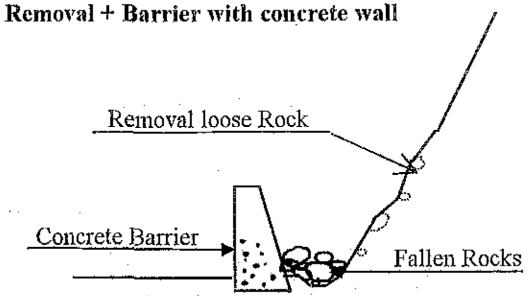
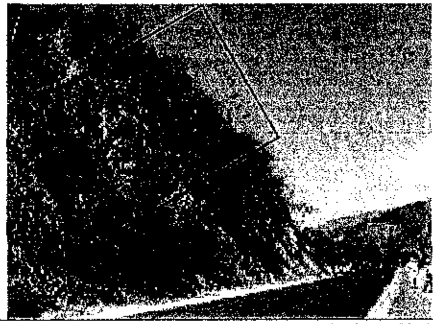
Alternative of Countermeasure	**Removal + Barrier with gabion wall** 	**Removal + Prevention net** 	**Removal + Barrier with concrete wall** 
Workability Structural feature	-Wire of gabion cannot resist against energy of the assumed falling rock. △	-The construction results are not in Nicaragua. -This type is almost permanent structure. ○	- The concrete barrier will be too big size for resistance against energy of the assumed falling rock. △
Environment Impact	-Deterioration of environment will be forecast by damage of gabion. △	-It is necessary to cut trees. △	-Installing the concrete barrier lacks harmony with the surrounding. △
Influence on Road	-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △	-There is no problem. ◎	-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △
Maintenance	-It is necessary to remove collected rock. -Durability depends on the life of the wire. △	-The environment deterioration is eased by partially constructing the net. △	-It is necessary to remove fallen rocks. -The maintenance of the structure is unnecessary. ○
Economy	-Because maintenance cost is high, costs of three alternatives are almost even. ○	-Net materials are expensive, but maintenance cost isn't high. ○	-The cost is middle of all. But the costs of three alternatives are almost even. ○
Evaluation	-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 3	-This type prevents completely dispersion of rock collapse. 1	-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 2

Table A6-5 Selection of Prevention Countermeasure Method

ID : N001B170	Topography	The Foot of The Ridge	Height and Incline	H =13 ~ 41 m , θ =42~70 deg.	The kind of The Rock	Almost Andesite but under part is Tufft.
Situation of Slope	Impact of Rain (Inflow water)	After rain	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	Left side photograph; Red mark is andesite, its lower side is tuff that weathering is early. Right side photograph; Seepage is oozing from red mark portion in rainy season. There are a lot of skin dropping because weathering is early, therefore andesite becomes unstable and collapses.					

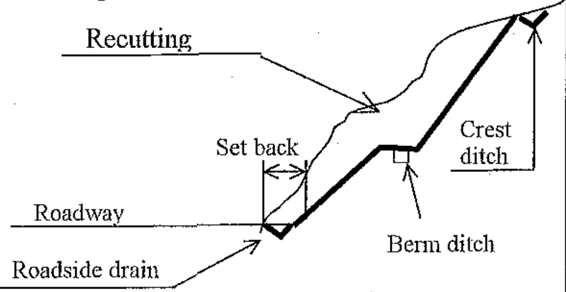
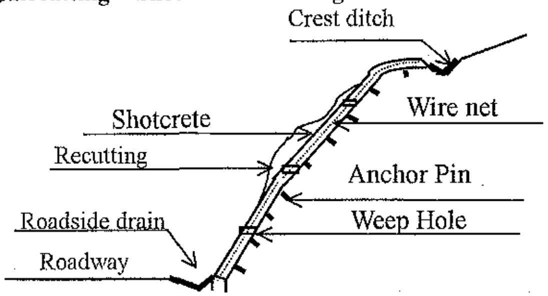
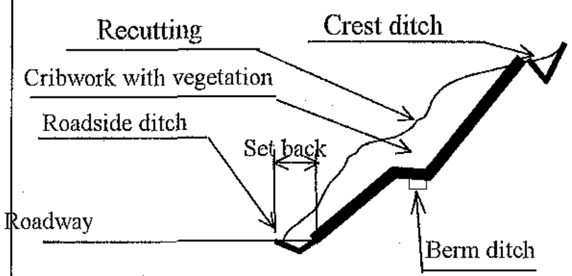
Alternative of Countermeasure	**Recutting + Drainage** 	**Recutting + Shotcrete + Drainage** 	**Recutting + Cribwork with vegetation + Drainage** 
Workability Structural feature	-Slope will be cut for the purposes of removal of weathering and to keep sight distance. ○	-The slope will be cut from the toe for removal of unstable materials in the upper part, and then shotcrete will be constructed. ○	-Slope will be cut for the purposes of removal of weathering and to keep sight distance. ○
Environment Impact	-Slope is expected of natural vegetation. △	-It is difficult to harmonize with surroundings. △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○
Influence on Road	-Traffic control is necessary during construction, but here is no influence after construction. ○	-The is no problem. ○	-Traffic control is necessary during construction, but here is no influence after construction. ○
Maintenance	-The maintenance is necessary until the vegetation takes root. △	-It is necessary to confirm volume of oozing. ○	-The maintenance is necessary until the vegetation takes root. It is important to maintain anchor of cribwork. △
Economy	-It is the most economical in three alternatives. ◎	-The cost is middle of all. ○	-The cost of cribwork is expensive. △
Evaluation	-This alternative is economical and effective. **1**	-The environmental and the measures oozing are inferior. **2**	-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 3

Table A6-6 Selection of Prevention Countermeasure Method

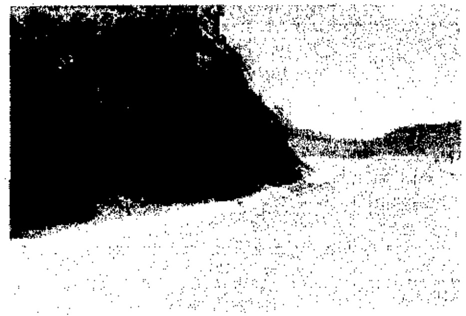
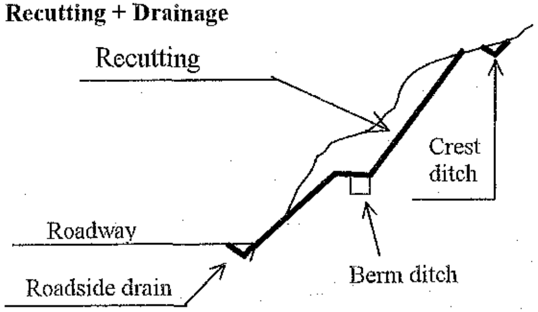
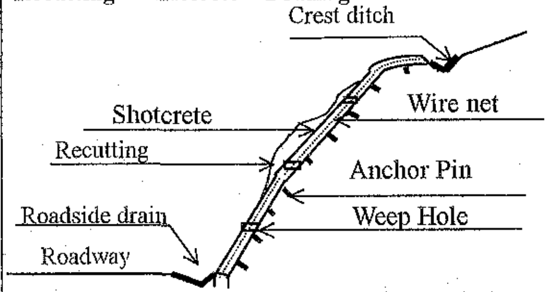
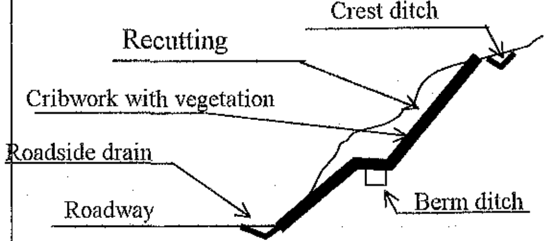
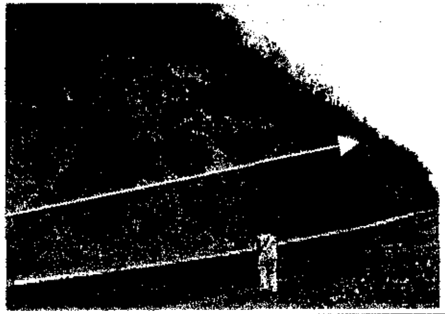
<table>
<tr><td>ID : N001B150</td><td>Topography</td><td>The Point of The Ridge</td><td>Height and Incline</td><td>H =7 ~ 13 m , θ =50~70 deg.</td><td>The kind of The Rock</td><td colspan="2">Almost Tuff but Upper part are Andsite.</td></tr>
<tr><td rowspan="2">Situation of Slope</td><td>Impact of Rain (Inflow water)</td><td>After rain</td><td>Stability Analysis</td><td>Unnecessary</td><td>Purpose of Countermeasure</td><td colspan="2">Rock Collapse</td></tr>
<tr><td colspan="4">The Dry Season
</td><td colspan="3">The Rainy Season
</td></tr>
<tr><td>Comments</td><td colspan="7">There are vertical cooling joint. Cracks are open by weathering advance. There are comparatively large falling rocks. Prevention of weathering is necessary after cutting tuff. As a result, the andesite can be prevented from collapse.</td></tr>
<tr><td>Alternative of Countermeasure</td><td colspan="3">Recutting + Drainage

</td><td colspan="2">Recutting + Shotcrete + Drainage

</td><td colspan="2">Recutting + Cribwork with vegetation + Drainage

</td></tr>
<tr><td>Workability Structural feature</td><td colspan="3">- The weathering is measured by installation of drainage facilities. ○</td><td colspan="2">-It is necessary special equipment.
-It is excels for countermeasure of weathering. ◎</td><td colspan="2">-The purpose of cribwork are for the vegetation and increase stability ○</td></tr>
<tr><td>Environment Impact</td><td colspan="3">-Slope is expected of natural vegetation. △</td><td colspan="2">-It is difficult to harmonize with surroundings. △</td><td colspan="2">-The environment is prevented from deteriorating by vegetation among the cribwork. ○</td></tr>
<tr><td>Influence on Road</td><td colspan="3">-Traffic control is necessary during construction, but here is no influence after construction. ○</td><td colspan="2">-The is no problem. ○</td><td colspan="2">-Traffic control is necessary during construction, but here is no influence after construction. ○</td></tr>
<tr><td>Maintenance</td><td colspan="3">-The maintenance is necessary until the vegetation takes root. △</td><td colspan="2">-It is necessary to confirm volume of oozing. ○</td><td colspan="2">-The maintenance is necessary until the vegetation takes root. It is important to maintain anchor of cribwork. △</td></tr>
<tr><td>Economy</td><td colspan="3">-It is the most economical in three alternatives. ○</td><td colspan="2">-The cost is middle of all. ○</td><td colspan="2">-The cost of cribwork is expensive. △</td></tr>
<tr><td>Evaluation</td><td colspan="3">-This alternative is beneath in maintenance and environmental. 2</td><td colspan="2">-It is the most effective in the weathering measures. Infiltration of water can be prevented by crest ditch. 1</td><td colspan="2">-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 3</td></tr>
</table>

Table A6-7 Selection of Prevention Countermeasure Method

ID : N001B120	Topography		Height and Incline	H =17 ~ 50 m , θ =50~75 deg.	The kind of The Rock	Tuff and Andesite. Middle part of slope are Dyke.
	Impact of Rain (Inflow water)	After rain	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rock Collapse

Situation of Slope

The Dry Season

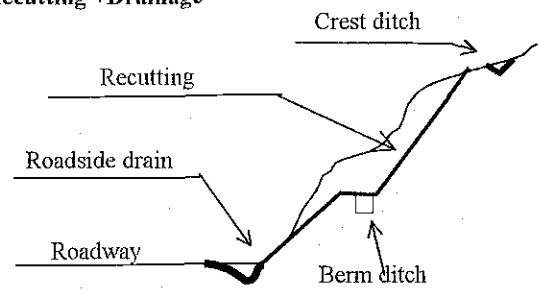


The Rainy Season

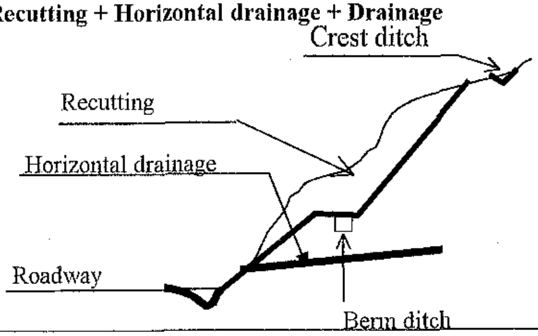
Comments	There is a collapse history. The part where the slope height is large is an intrusive rock and a hard rock. It is intrusive along the fault(white mark), therefore the rock is extremely weak at its both sides. The condition of a peripheral rock by influence of the fault is bad, and there is a possibility to be going to repeat a big collapse in the future. Drastic counter measurements are necessary

Alternative of Countermeasure

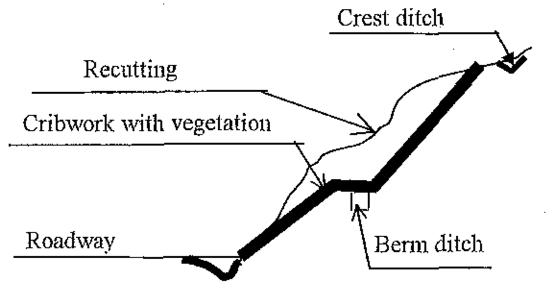
Recutting +Drainage



Recutting + Horizontal drainage + Drainage



Recutting + Cribwork with vegetation+ Drainage



	Recutting +Drainage	Recutting + Horizontal drainage + Drainage	Recutting + Cribwork with vegetation+ Drainage
Workability Structural feature	-Large-scale collapse is prevented by cut of 55 ° . Stability will increase by drainage facilities. ○	-Horizontal drainage is added to left side alternative as the increase stability. △	-The purpose of cribwork are for the vegetation and increase stability ○
Environment Impact	-Slope is expected of natural vegetation. △	-Slope is expected of natural vegetation. △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○
Influence on Road	-Traffic control is necessary during construction, but here is no influence after construction. ○	-Traffic control is necessary during construction, but here is no influence after construction. ○	-Traffic control is necessary during construction, but here is no influence after construction. ○
Maintenance	-It is necessary to maintain slope surface. △	-The inspection is necessary water volume from the horizontal drainage. △	-The maintenance is necessary until the vegetation takes root. It is important to maintain anchor of cribwork. △
Economy	-It is the most economical in three alternatives. ◎	-The cost is middle of all. ○	-The cost of cribwork is expensive. △
Evaluation	-Drainage facilities are effective to prevent weathering. This alternative is the most effective economically. 1	-Inflow water after rain is much, but horizontal drainage is not necessary. 2	-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 3

Table A6-8 Selection of Prevention Countermeasure Method

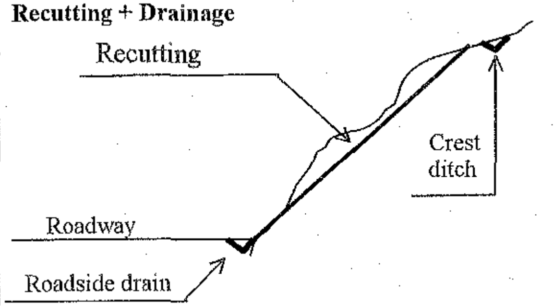
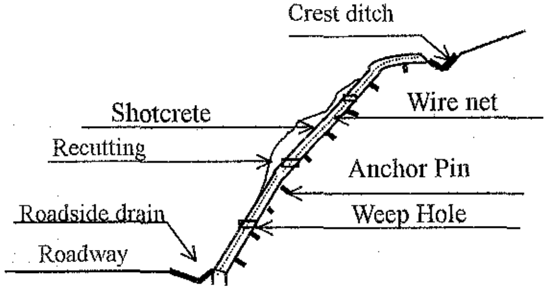
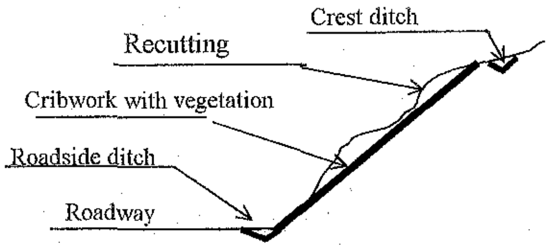
<table>
<tr><td>ID : N003B400</td><td>Topography</td><td>The Point of The Small Ridge</td><td>Height and Incline</td><td>H =8 ～ 18 m , θ =33～48 deg.</td><td>The kind of The Rock</td><td>Tuff and a part of Agglomerate</td></tr>
<tr><td rowspan="2">Situation of Slope</td><td>Impact of Rain (Inflow water)</td><td>After rain</td><td>Stability Analysis</td><td>Unnecessary</td><td>Purpose of Countermeasure</td><td>Rock Collapse and Toppling</td></tr>
<tr><td colspan="4">The Dry Season
</td><td colspan="2">The Rainy Season
</td></tr>
<tr><td>Comments</td><td colspan="6">The surface water flow along the crack, and it ooze from the vicinity of the toe of the slope(red mark). The width of crack of tuff increases, the toppling phenomenon is caused.</td></tr>
<tr><td>Alternative of Countermeasure</td><td colspan="2">Recutting + Drainage

</td><td colspan="2">Recutting + Shotcrete + Drainage

</td><td colspan="2">Recutting + Cribwork + Vegetation + Drainage

</td></tr>
<tr><td>Workability Structural feature</td><td colspan="2">- The weathering is measured by installation of drainage facilities. ○</td><td colspan="2">-Cutting is no need for stability.
-It is excels for countermeasure of weathering. ◎</td><td colspan="2">-The purpose of cribwork are for the vegetation and increase stability ○</td></tr>
<tr><td>Environment Impact</td><td colspan="2">-Slope is expected of natural vegetation. △</td><td colspan="2">-It is difficult to harmonize with surroundings. △</td><td colspan="2">-The environment is prevented from deteriorating by vegetation among the cribwork. ○</td></tr>
<tr><td>Influence on Road</td><td colspan="2">-Traffic control is necessary during construction, but here is no influence after construction. ○</td><td colspan="2">-Traffic control is necessary during construction, but here is no influence after construction. ○</td><td colspan="2">-Traffic control is necessary during construction, but here is no influence after construction. ○</td></tr>
<tr><td>Maintenance</td><td colspan="2">-The maintenance is necessary until the vegetation takes root. △</td><td colspan="2">-It is necessary to confirm volume of oozing. △</td><td colspan="2">-The maintenance is necessary until the vegetation takes root. It is effective for weathering ○</td></tr>
<tr><td>Economy</td><td colspan="2">-It is the most economical in three alternatives. ◎</td><td colspan="2">-The cost is middle of all. ○</td><td colspan="2">-The cost of cribwork is expensive. △</td></tr>
<tr><td>Evaluation</td><td colspan="2">-Drainage facilities are effective to prevent weathering. This alternative is the most effective economically. 1</td><td colspan="2">-There is a problem in durability when there is a lot of inflow water after drain. 2</td><td colspan="2">-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 3</td></tr>
</table>

Table A6-9 Selection of Prevention Countermeasure Method

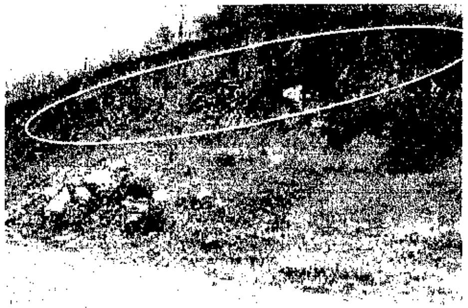
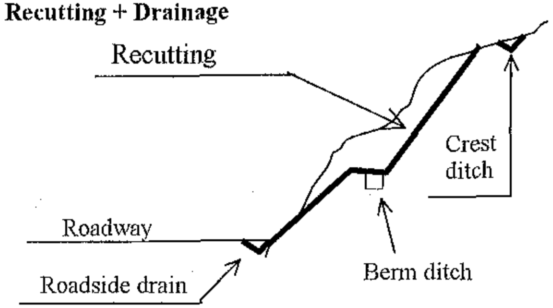
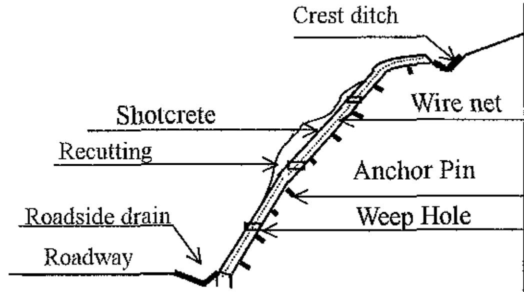
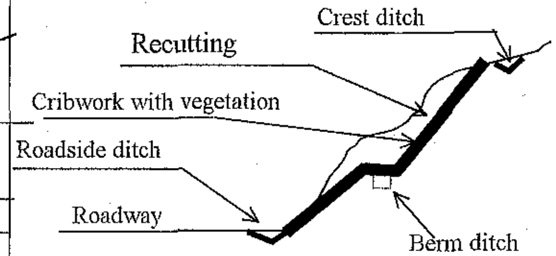
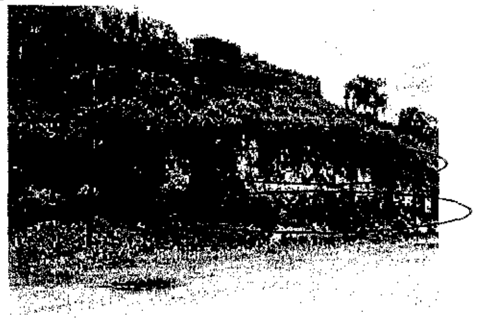
<table>
<tr><td>ID : N003B370</td><td>Topography</td><td>The Point of The Small Ridge</td><td>Height and Incline</td><td>H =8 ～ 18 m , θ =45～53 deg.</td><td>The kind of The Rock</td><td colspan="2">Tuff</td></tr>
<tr><td>Situation of Slope</td><td>Impact of Rain (Inflow water)</td><td>No exist</td><td>Stability Analysis</td><td>Unnecessary</td><td>Purpose of Countermeasure</td><td colspan="2">Rock Collapse</td></tr>
<tr><td>Situation of Slope</td><td colspan="4">The Dry Season
</td><td colspan="3">The Rainy Season
</td></tr>
<tr><td>Comments</td><td colspan="7">There are two types tuff. Tuff marked in white has vertical cooling joint(hard rock; II B type) Lower side tuff that weathering is early(II A type) . Inflow water was not able to be confirmed in the rainy season.</td></tr>
<tr><td>Alternative of Countermeasure</td><td colspan="3">Recutting + Drainage

</td><td colspan="3">Recutting + Shotcrete + Drainage

</td><td>Recutting + Cribwork + Vegetation + Drainage

</td></tr>
<tr><td>Workability Structural feature</td><td colspan="3">-There is not problem of construction. - The weathering is measured by installation of drainage facilities ○</td><td colspan="3">-Special equipment is necessary.
-It is excels for countermeasure of weathering. ◎</td><td>-The purpose of cribwork are for the vegetation and increase stability ○</td></tr>
<tr><td>Environment Impact</td><td colspan="3">-Slope is expected of natural vegetation. △</td><td colspan="3">-It is difficult to harmonize with surroundings. △</td><td>-The environment is prevented from deteriorating by vegetation among the cribwork. ○</td></tr>
<tr><td>Influence on Road</td><td colspan="3">-Traffic control is necessary during construction, but here is no influence after construction. ○</td><td colspan="3">-Traffic control is necessary during construction, but here is no influence after construction. ○</td><td>-Traffic control is necessary during construction, but here is no influence after construction. ○</td></tr>
<tr><td>Maintenance</td><td colspan="3">-The maintenance is necessary until the vegetation takes root. △</td><td colspan="3">-It is necessary to confirm volume of oozing. △</td><td>-The maintenance is necessary until the vegetation takes root. It is effective for weathering ○</td></tr>
<tr><td>Economy</td><td colspan="3">-It is the most economical in three alternatives. ◎</td><td colspan="3">-The cost is middle of all. ○</td><td>-The cost of cribwork is expensive. △</td></tr>
<tr><td>Evaluation</td><td colspan="3">-The purpose of prevention can be economically achieved. 1</td><td colspan="3">-There is a problem in durability when there is a lot of inflow water. 2</td><td>-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 3</td></tr>
</table>

Table A6-10 Selection of Prevention Countermeasure Method

ID : N003B320	Topography	The Point of The Small Ridge	Height and Incline	H =7 ~ 9 m , θ =48~75 deg.	The kind of The Rock	Tuff
	Impact of Rain (Inflow water)	After rain	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	The weathering of tuff is advancing, the distributed layer of scoria at leg of slope is weak to rain, and collapse is early. The inflow water was confirmed from the part marked in red in rainy season.					

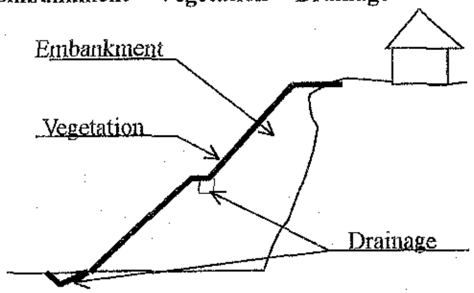
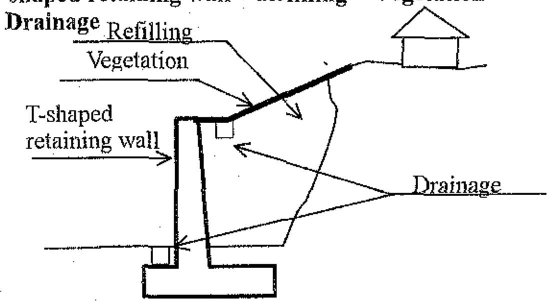
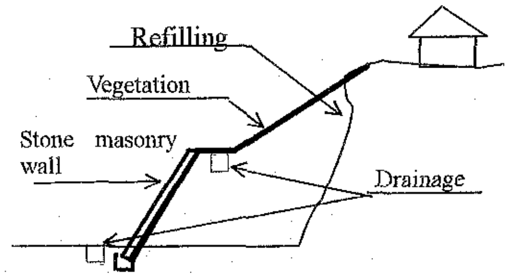
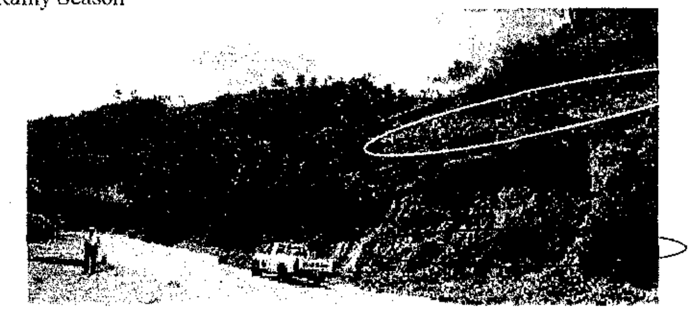
Alternative of Countermeasure	**Embankment + Vegetation + Drainage** 	**T-shaped retaining wall + Refilling + Vegetation + Drainage** 	**Stone masonry + Refilling + Vegetation + Drainage** 
Workability Structural feature	-Behavior of existing slope and constructed embankment is problem. △	-There is no problem of loosening of the backfill by the retaining wall. Construction is no problem. ◎	-There is no problem of loosening of the backfill by the retaining wall. Construction is no problem. ○
Environment Impact	-Embankment harmonizes with surroundings by the vegetation. ◎	-Retaining wall has feeling of stability and somewhat overpowering. It harmonize with surrounding by vegetation ○	-Retaining wall has feeling of stability and somewhat overpowering. It harmonize with surrounding by vegetation ○
Influence on Road	-The width of the road is insufficient. △	-There is no problem of the width of the road. ◎	-Stone masonry height is up to 5m, therefore the width of the road is insufficient. △
Maintenance	-It is necessary to maintain behavior of existing slope and constructed embankment. △	-Maintenance is not necessary. ◎	-Maintenance is not necessary. ◎
Economy	-It is the most economical in three alternatives. But it has problem of width of the road. ◎	-Retaining wall is expensive. △	-Stone masonry is expensive. ○
Evaluation	-It is difficult to select for lack of width of the road. **3**	-This alternative excels in the structure and maintenance. **1**	-It is difficult to select for lack of width of the road. **2**

Table A6-11 Selection of Prevention Countermeasure Method

ID : N003C230	Topography	The Point of The Small Ridge	Height and Incline	H =8 ～ 16 m , θ =48～60 deg.	The kind of The Rock	Tuff
Situation of Slope	Impact of Rain (Inflow water)	Leak out a little	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rock Collapse, Slope Sliding
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	The weathering of tuff is advancing, its geological features collapse easily and are weak to rain. The transformation was not seen at fill. Water collected in leg of slide scarp(white mark). The seepage and small collapsing was confirmed.					

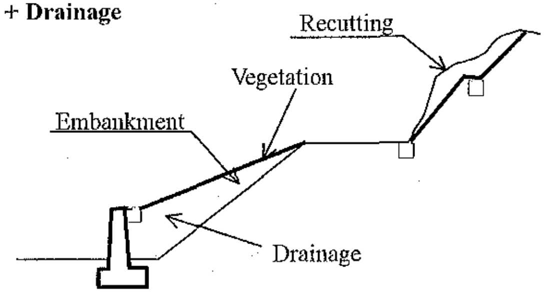
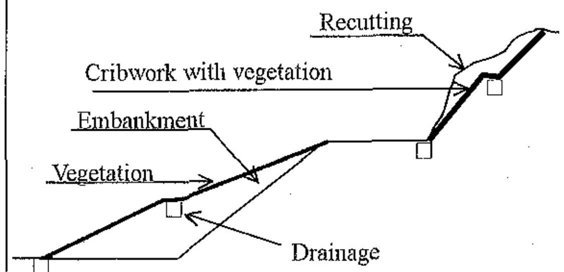
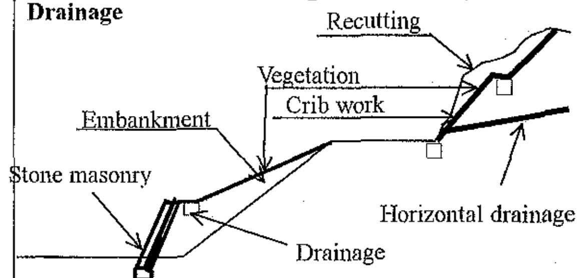
Alternative of Countermeasure	**Recutting + Drainage Embankment + T-shaped retaining wall + Vegetation + Drainage** 	**Recutting + Crib work + Vegetation + Drainage Embankment + Vegetation + Drainage** 	**Recutting + Crib work + Vegetation +Horizontal drainage + Drainage Embankment + Retaining wall + Vegetation + Drainage** 
Workability Structural feature	-Cut slope is stability by cutting of 45 °. -Embankment increase stability by installation of retaining wall ○	-Cutting slope is stability by cutting of 45 °. -Embankment increase stability by bench cutting of existing slope ○	-Cutting slope is stability by cutting of 45 °. -Embankment increase stability by installation of stone masonry. ○
Environment Impact	-Cut slope is expected of natural vegetation. ○	-Vegetation is needed for nature park, therefore cribwork will be installed for vegetation. ◎	-Vegetation is needed for nature park, therefore cribwork will be installed for vegetation. ◎
Influence on Road	-One lane is operated while constructing ○	-One lane is operated while constructing ○	-One lane is operated while constructing ○
Maintenance	-The maintenance is necessary until the vegetation takes root. ○	-The maintenance is necessary until the vegetation takes root. ○	-The maintenance is necessary until the vegetation takes root. ○
Economy	-Retaining wall is expensive. ○	-Cribwork is expensive. ○	-Cribwork, stone masonry, and horizontal drain is expensive △
Evaluation	-Retaining wall is unnecessary for stability. 3	-Cut slope excels in stability and the environmental. -Vegetation is needed for nature park. 1	-Stone masonry and horizontal drainage are unnecessary for stability. 2

Table A6-12 Selection of Prevention Countermeasure Method

ID : N003E170	Topography	The Mountainside	Height and Incline	H =10 ~ 22 m , θ =45~62 deg.	The kind of The Rock	Alternation of Tuff and Andesite (Alteration zone)
	Impact of Rain (Inflow water)	Debris Flow Inflow water	Stability Analysis	Unnecessary	Purpose of Countermeasure	Debris Flow and Rockfalls

Situation of Slope

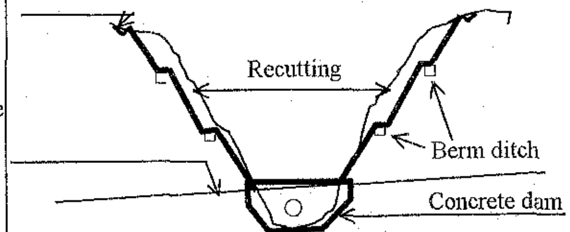
The Dry Season

The Rainy Season

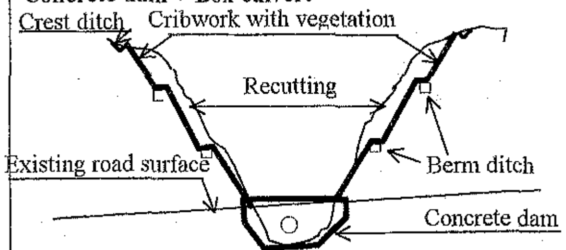
Comments: The quality of rock is changed. The difference of hard and soft is violent because of the place. The weathering belt in the hillside has surface collapse due to shallow seepage. The main disaster is flash flood than debris flow. The main disaster is flash flood than debris flow.

Alternative of Countermeasure

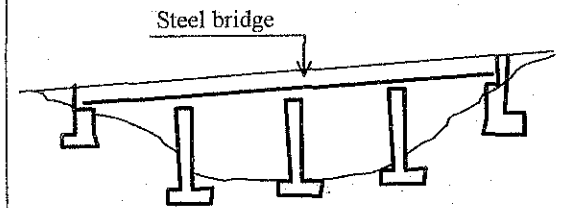
Recutting + Drainage Concrete dam + Box culvert



Recutting + Cribwork with vegetable+ Drainage Concrete dam + Box culvert

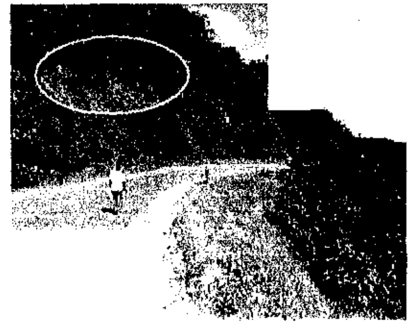


Recutting + Cribwork with vegetable+ Drainag Steel bridge



	Recutting + Drainage Concrete dam + Box culvert	Recutting + Cribwork with vegetable+ Drainage Concrete dam + Box culvert	Recutting + Cribwork with vegetable+ Drainag Steel bridge
Workability Structural feature	-Construction is not so difficult. ○	-Construction is not so difficult. The purpose of cribwork are for the vegetation and increase stability ○	-The bridge of the length of about 100m is necessary. –Countermeasure of the approach road slope is necessary △
Environment Impact	-Slope is expected of natural vegetation. -It is difficult to harmonize with surroundings until taking root. △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○	-The environment is prevented from deteriorating by vegetation among the cribwork. ○
Influence on Road	- Detour of traffic is necessary during construction. △	- Detour of traffic is necessary during construction. △	- Detour of traffic is necessary during construction. △
Maintenance	-Maintenance is not for stability. ○	-The maintenance is necessary until the vegetation takes root. ○	-The maintenance is necessary until the vegetation takes root. Maintenance of bridge is unnecessary. ○
Economy	-This alternative is cheapest of all. Maintenance cost is higher than other alternatives ◎	-The cost is middle of all. ○	-Cost of new bridge construction is very expensive. △
Evaluation	-Weathering can be considerably prevented by installation of drainage facilities. 1	-Cut slope excels in stability and maintenance. -The necessity of cribwork is vague. 2	-The purpose of shift of road alignment is avoidance of debris flow. The bridge is unnecessary for stability. 3

Table A6-13 Selection of Prevention Countermeasure Method

ID : N003C150	Topography	The Mountainside	Height and Incline	H =13 ～ 29 m , θ =48～50 deg.	The kind of The Rock	Tuff
Situation of Slope	Impact of Rain (Inflow water)	After rain	Stability Analysis	Necessary	Purpose of Countermeasure	Slope Sliding, Rock Collapse
	The Dry Season 				The Rainy Season 	
Comments	Weathering of tuff is advancing. The inflow water from part marked in red was confirmed. A part marked in white is collapse topography. There is a slide scarp at inner part. The vicinity of the toe of slope is a steady tuff.					

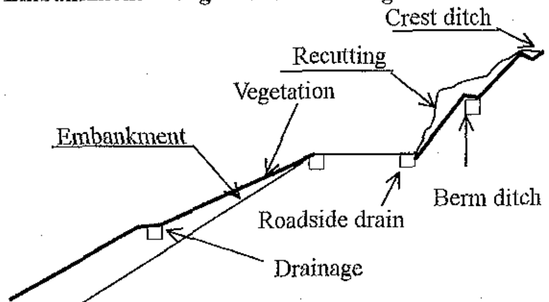
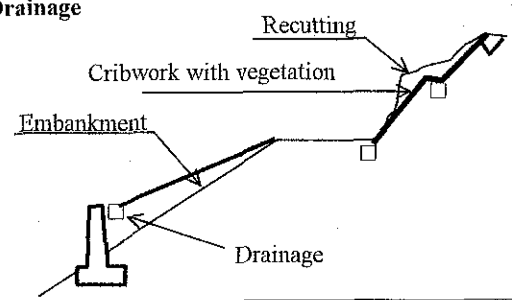
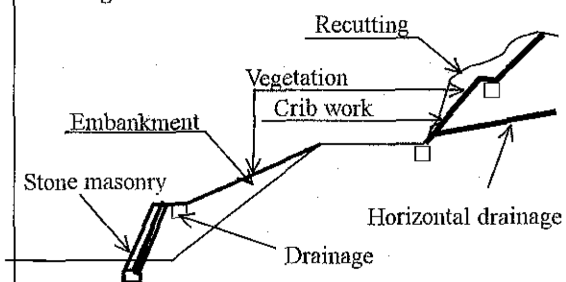
Alternative of Countermeasure	**Recutting + Drainage Embankment + Vegetation + Drainage** 	**Recutting + Cribwork with vegetation + Drainage Embankment + T-shaped retaining wall + Vegetation + Drainage** 	**Recutting + Crib work with vegetation + Drainage Embankment + Retaining wall + Vegetation + Drainage** 
Workability Structural feature	-Cut slope become stable by cutting of collapse soil. -Embankment increase stability by bench cutting of existing slope. ○	-The purpose of cribwork is for the vegetation and increase stability. ○	-The purpose of cribwork is for the vegetation and increase stability. ○
Environment Impact	-It harmonizes with surrounding by vegetation on embankment. Slope is expected of natural vegetation○	-It harmonizes with surrounding by vegetation ◎	-It harmonizes with surrounding by vegetation. ◎
Influence on Road	-One lane is operated while constructing ○	-One lane is operated while constructing. ○	-One lane is operated while constructing. ○
Maintenance	-The maintenance is necessary until the vegetation takes root. Embankment side is private land. ○	-The maintenance is necessary until the vegetation takes root. The width of land use is minimum. ○	-The maintenance is necessary until the vegetation takes root. The width of land use is middle. ○
Economy	-This alternative is cheapest of all. ◎	-Cribwork and retaining wall are expensive. △	-Cribwork, stone masonry and horizontal drainage are expensive. △
Evaluation	-The purpose of prevention can be economically achieved. 1	-Cribwork and retaining wall are unnecessary for stability. 3	-Stone masonry and horizontal drainage are unnecessary for stability. 2

Table A6-14 Selection of Prevention Countermeasure Method

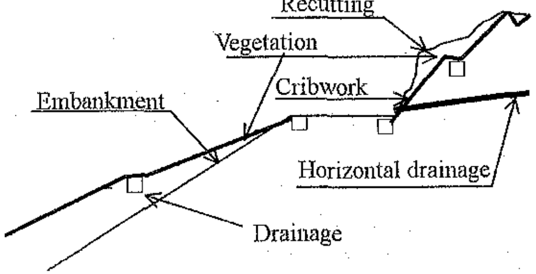
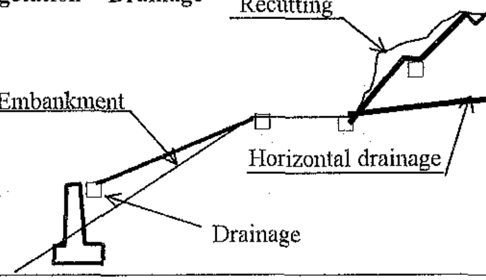
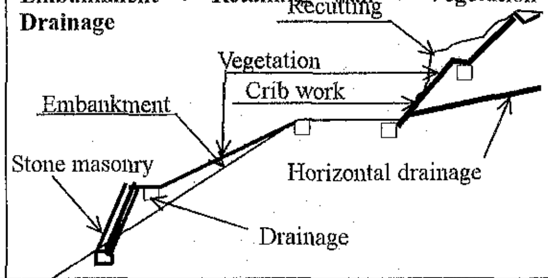
ID : N003C140	Topography	The Mountainside	Height and Incline	H =6 ～ 9 m , θ =45～60 deg.	The kind of The Rock	Tuff
	Impact of Rain (Inflow water)	Inflow water	Stability Analysis	Necessary	Purpose of Countermeasure	Slope Sliding, Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	Weathering of tuff is advancing. There is a watercourse in the rock and it was confirmed by the oozing from embankment. It is necessary to examine the installation of the horizontal drainage to control the water level. The cut gradient will be determined according to the boring result and the position of the church. T-shaped retaining wall will be necessary because it minimizes width of land use of coffee plantation.					
Alternative of Countermeasure	**Recutting + Cribwork with vegetation + Horizontal drain + Drainage** **Embankment + Vegetation+ Drainage**  		**Recutting + Horizontal Drain + Drainage** **Embankment + T-shaped retaining wall + Vegetation + Drainage**  		**Recutting + Cribwork with vegetation + Drainage + Horizontal drainage** **Embankment + Retaining wall + Vegetation + Drainage**  	
Workability Structural feature	-The purpose of cribwork is for the vegetation and increase stability. But it does not contribute almost in stability ○		-Some technologies are necessary. -Embankment increase stability by installation of retaining wall. ◎		-Construction is not difficult. -Some technologies are necessary. ◎	
Environment Impact	-It harmonizes with surrounding by vegetation. The vegetation on the cut side is done with cribwork. ○		-Cut slope is expected of natural vegetation. △		-It harmonizes with surrounding by vegetation. The vegetation on the cut side is done with cribwork. ○	
Influence on Road	-One lane is operated while constructing ○		-One lane is operated while constructing ○		-One lane is operated while constructing ○	
Maintenance	-The maintenance is necessary until the vegetation takes root. The width of land use is maximum. △		-The maintenance is necessary until the vegetation takes root. The width of land use is minimum. ◎		-The maintenance is necessary until the vegetation takes root. The width of land use is middle. ○	
Economy	-Cribwork is expensive. ○		-Retaining wall is expensive. ○		-Cribwork and stone masonry are expensive. △	
Evaluation	-The width of land use is maximum, therefore It has an impacts on coffee plantation. 3		-The width of land use is minimum, therefore It decrease an impacts on coffee plantation 1		-The width of land use is necessary more wide than T-shaped retaining wall. 2	

Table A6-15 Selection of Prevention Countermeasure Method

ID : N005A010	Topography	The Mountainside	Height and Incline	H =23 ～ 38 m , θ =41～48 deg.	The kind of The Rock	Talus and Tuff
	Impact of Rain (Inflow water)	Inflow water Surface Water	Stability Analysis	Necessary	Purpose of Countermeasure	Rockfalls
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	The slope consists mainly of talus of diluvial age over tuff. The existing road became unstable by the leg of talus was cut. The crest ditches were installed after collapse, but the infiltrating water is oozing. Falling rock continues because the gradient of cut is too steep.					

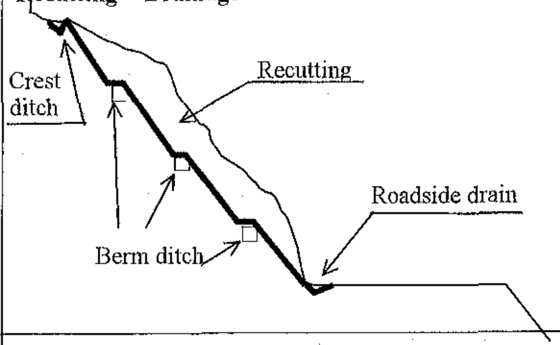
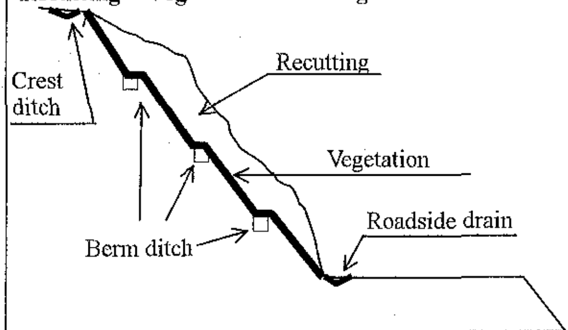
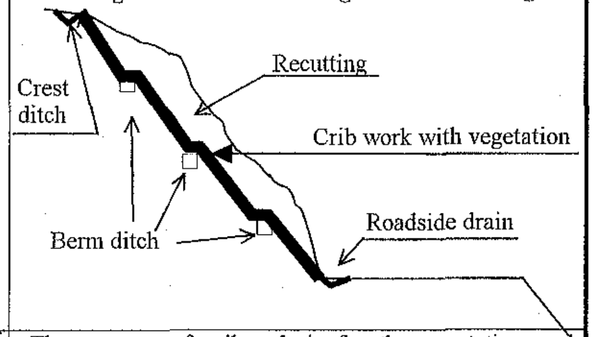
Alternative of Countermeasure	**Recutting + Drainage** 	**Recutting + Vegetation + Drainage** 	**Recutting + Cribwork with Vegetation + Drainage** 
Workability Structural feature	-Large-scale collapse is prevented by cut of 35 ° . Stability will increase by drainage facilities. ○	-Vegetation is added to left side alternative as the increase stability. ○	-The purpose of cribwork is for the vegetation and increase stability. But it does not contribute almost in stability. ○
Environment Impact	-Slope is expected of natural vegetation. △	-Slope is expected of natural vegetation. △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○
Influence on Road	-One lane is operated while constructing ○	-One lane is operated while constructing ○	-One lane is operated while constructing ○
Maintenance	-It is necessary to maintain slope surface. △	-The maintenance is necessary until the vegetation takes root △	-The maintenance is necessary until the vegetation takes root △
Economy	-It is the most economical in three alternatives. ◎	-It costs the maintenance expense of the vegetation. ○	-Cribwork is expensive. △
Evaluation	-The purpose of prevention can be economically achieved. 1	The effect of the vegetation cannot be expected. 3	-The effect that corresponds to expense of cribwork cannot be expected. 2

Table A6-16 Selection of Prevention Countermeasure Method

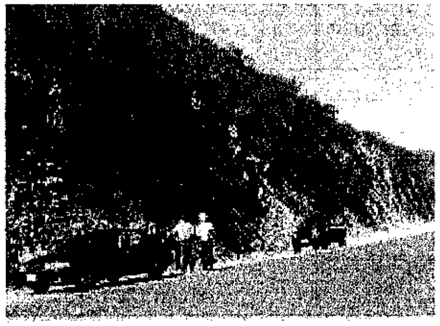
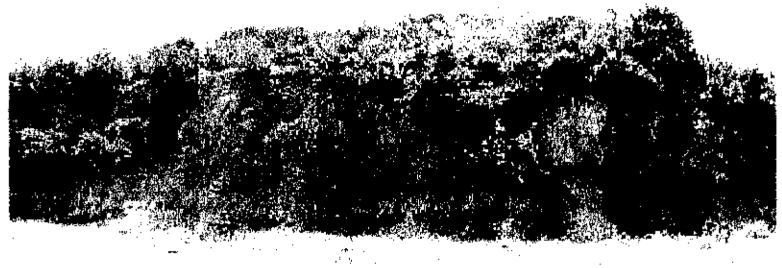
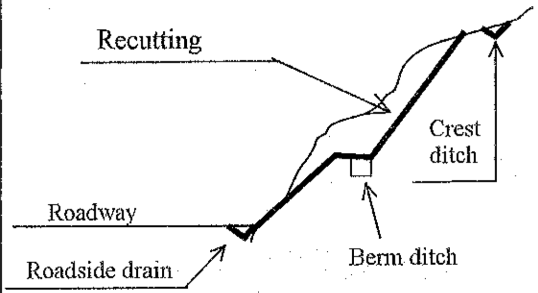
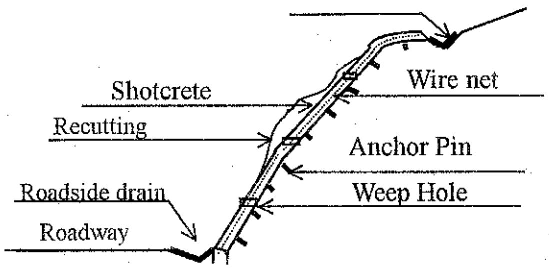
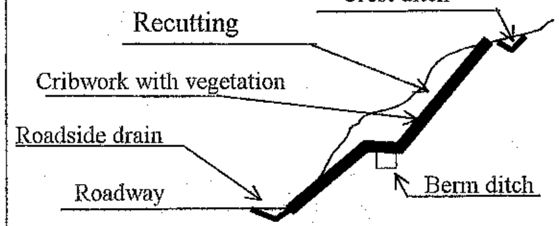
ID :N0026A060	Topography	The Mountainside	Height and Incline	H =9 ~ 14 m , θ =53~63 deg.	The kind of The Rock	Tuff
Situation of Slope	Impact of Rain (Inflow water)	After water	Stability Analysis	Unnecessary	Purpose of Countermeasure	Rockfalls
	The Dry Season 				The Rainy Season 	
Comments	The surface dropping and falling rock stand out in rainy season. The layer of weathering tuff collapses, therefore andesite near shoulder become overhanging and collapses. Tuff becomes collapse along the cracks because it is subdivided by repeating dry and wet.					
Alternative of Countermeasure	**Recutting + Vegetation + Drainage** 		**Recutting + Shotcrete + Drainage** 		**Recutting + Crib work with vegetation + Drainage** 	
Workability Structural feature	-Construction is not difficult. Cutting is inferior in respect of the weathering measures △		-It is necessary special equipment. -It is excels for countermeasure of weathering. ◎		-Construction is not difficult. -Some technologies are necessary. ◎	
Environment Impact	-Slope is expected of natural vegetation. △		-It is difficult to harmonize with surroundings. △		-The environment is prevented from deteriorating by vegetation among the cribwork. ○	
Influence on Road	-Traffic control is necessary during construction, but here is no influence after construction. ○		-Traffic control is necessary during construction, but here is no influence after construction. ○		Traffic control is necessary during construction, but here is no influence after construction. ○	
Maintenance	-The maintenance is necessary until the vegetation takes root. △		-It is necessary to confirm volume of oozing. ○		-The maintenance is necessary until the vegetation takes root. It is effective to the weathering measures. ○	
Economy	-It is the most economical in three alternatives. ◎		-The cost is middle of all. ○		-Cribwork is expensive. It is the most expensive of all. △	
Evaluation	-Maintenance, environmental, and weathering are inferior. 2		-It is the most effective in the weathering measures. Infiltration of water can be prevented by crest ditch. 1		Stability and the environmental are excels after measures. But it is expensive. 3	

Table A6-17 Selection of Prevention Countermeasure Method

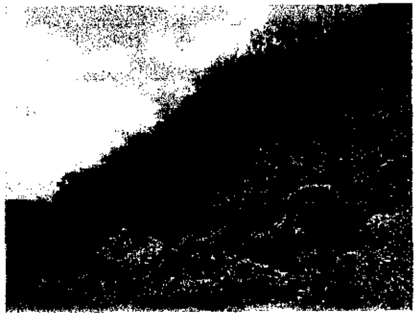
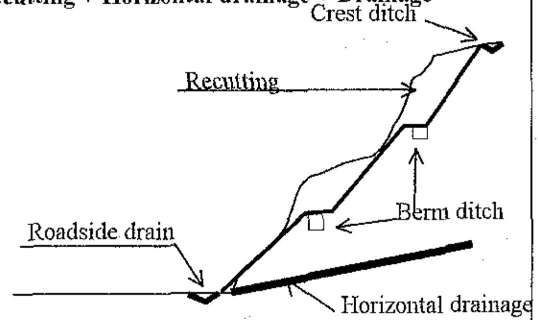
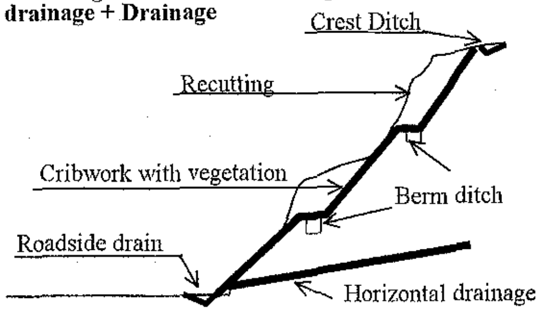
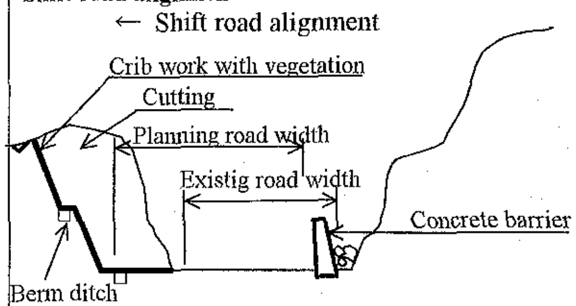
ID: N0026B140	Topography	The Mountainside	Height and Incline	H =11 ～ 33 m , θ =50～60 deg.	The kind of The Rock	Tuff and Andesite , The Portion is Fracture Zone.
	Impact of Rain (Inflow water)	Inflow water	Stability Analysis	Necessary	Purpose of Countermeasure	Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	The width of crashed zone of tuff is about 50m. The angle of slide scarp is 60° ,and it is instability. Falling rock was confirmed in dry season, it enters the rainy season and has increased further. 40° is recommended as the angle of cutting. The slope has the small collapsing in the vicinity of the crashed zone. The inflow water was confirmed from the cracks.					
Alternative of Countermeasure	**Recutting + Horizontal drainage + Drainage** 		**Recutting + Cribwork with vegetation + Horizontal drainage + Drainage** 		**Shift road alignment** 	
Workability Structural feature	-Large-scale collapse is prevented by cut of 40 ° at fracture zone, 55 ° at the other zone. Stability will increase by horizontal drainage facilities. ○		-Cribwork is added to left side alternative as the increase stability and vegetation. ○		-The road alignment is shifted, and then concrete barrier is installed. Cribwork is installed after slope is cut at the opposite side △	
Environment Impact	-Slope is expected of natural vegetation. △		-The environment is prevented from deteriorating by vegetation among the cribwork. ○		-Vegetation is done among the cribwork , but opposite side remain slope of existing condition △	
Influence on Road	-One lane is operated while constructing ○		-One lane is operated while constructing ○		-One lane is operated while constructing ○	
Maintenance	-The maintenance is necessary until the vegetation takes root. Inspection of slope surface is necessary. △		-The maintenance is necessary until the vegetation takes root. ○		-Maintenance of cribwork side is unnecessary, but maintenance of existing slope side is necessary. ○	
Economy	-It is the most economical in three alternatives. ◎		-Cribwork is expensive. △		-Cutting and concrete barrier are expensive. △	
Evaluation	-Slope increases stability, because slope is cut to gentle gradient, and horizontal drainage is installed. 1		-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. 2		-The barrier is too big size. An economical effect cannot be demonstrated by shifting. 3	

Table A6-18 Selection of Prevention Countermeasure Method

ID : N0026A150	Topography	The Mountainside	Height and Incline	H =18 ～ 56 m , θ =48～56 deg.	The kind of The Rock	Agglomerate, Tuff and Andesite , (Alteration zone)
Situation of Slope	Impact of Rain (Inflow water)	After rain	Stability Analysis	Necessary	Purpose of Countermeasure	Rockfalls
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	The whole of slope is a changing in quality action and a fragile rock. Marked in red is slide scarp, it is a supply source of the falling rock and the collapse, and it piles up in the place which slope was marked in white. The slope on the road side collapses easily, too and minute gravel diffuse to the road. The inflow water was confirmed at four positions in rainy season.					

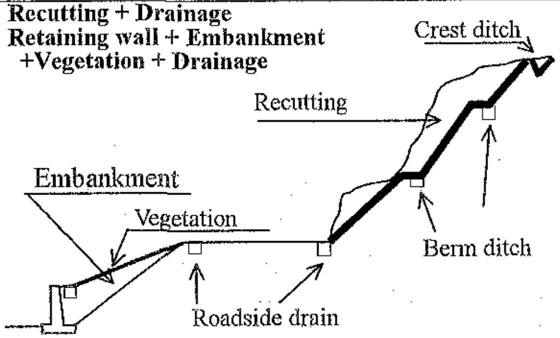
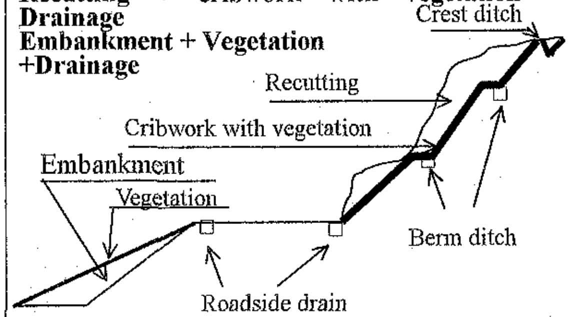
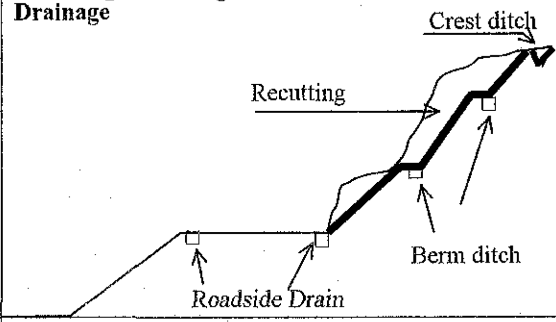
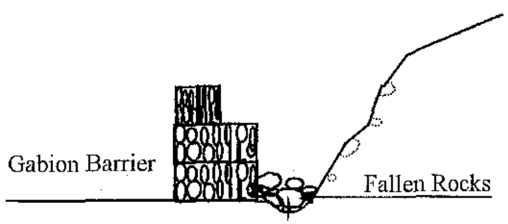
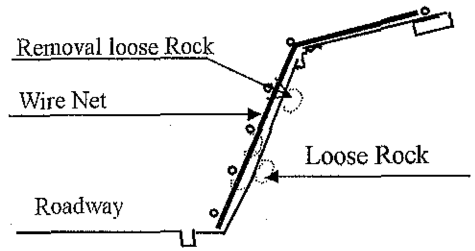
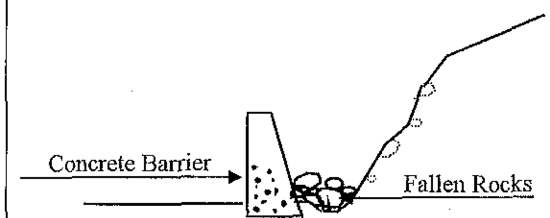
Alternative of Countermeasure	**Recutting + Drainage Retaining wall + Embankment +Vegetation + Drainage** 	**Recutting + cribwork with vegetation + Drainage Embankment + Vegetation +Drainage** 	**Recutting + Drainage Drainage** 
Workability Structural feature	-Large-scale collapse is prevented and stability increase by cut of 55° . Retaining wall is installed at embankment side. ○	-Cribwork and vegetation are added to left side alternative as the increase stability. Embankment increase stability by bench cutting of existing slope. ○	-Large-scale collapse is prevented and stability increase by cut of 55° .Roadside ditch is installed at shoulder of slope at embankment side. ○
Environment Impact	-Slope is expected of natural vegetation at cut slope side △	-The environment is prevented from deteriorating by vegetation among the cribwork. ○	-Slope is expected of natural vegetation at cut slope side. △
Influence on Road	-One lane is operated while constructing ○	-One lane is operated while constructing ○	-One lane is operated while constructing ○
Maintenance	-The maintenance is necessary until the vegetation takes root. Inspection of slope surface is necessary. △	-The maintenance is necessary until the vegetation takes root. ○	-Inspection of slope surface is necessary. ◎
Economy	-Retaining wall of embankment side is expensive. ○	-Cribwork is expensive ○	-It is the most economical in three alternatives. ○
Evaluation	-Slope increases stability; because slope is cut to gentle gradient, and economical drainage system is installed. Retaining wall is unnecessary for stability. 3	-The purpose of cribwork is for the vegetation, and it does not contribute almost in stability. Embankment is unnecessary for stability. 2	-Slope increases stability; because slope is cut to gentle gradient, and economical drainage system is installed 1

Table A6-19 Selection of Prevention Countermeasure Method

ID:N0026B160	Topography	The Mountainside	Height and Incline	H =11 ~ 22 m , θ =53~70 deg.	The kind of The Rock	Tuff and Andesite ,
	Impact of Rain (Inflow water)	After rain	Stability Analysis	Necessary	Purpose of Countermeasure	Rock Collapse
Situation of Slope	The Dry Season 				The Rainy Season 	
Comments	Cracks of andesite are open. The toppling phenomenon has been caused. The removals of unstable rocks are necessary.					

Alternative of Countermeasure	**Removal + Barrier with gabion wall +Drainage** 	**Removal + Prevention net + Drainage** 	**Removal + Barrier with concrete wall + Drainage** 
Workability Structural feature	-Wire of gabion cannot resist against energy of the assumed falling rock. △	-The construction results are not in Nicaragua. -This type is almost permanent structure. ○	- The concrete barrier will be too big size for resistance against energy of the assumed falling rock. △
Environment Impact	-Deterioration of environment will be forecast by damage of gabion. △	-It is necessary to cut trees. △	-Installing the concrete barrier lacks harmony with the surrounding. △
Influence on Road	-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △	-There is no problem. ◎	-It is difficult to stop completely jumping over rock by barrier. Width for barrier is not enough. △
Maintenance	-It is necessary to remove collected rock. -Durability depends on the life of the wire. △	-The environment deterioration is eased by partially constructing the net. △	-It is necessary to remove fallen rocks. -The maintenance of the structure is unnecessary. ○
Economy	-Because maintenance cost is high, costs of three alternatives are almost even. ○	-Net materials are expensive, but maintenance cost isn't high. ○	-The cost is middle of all. But the costs of three alternatives are almost even. ○
Evaluation	-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 3	-This type prevents completely dispersion of rock collapse. 1	-The gabion isn't steady by the collision of assumed falling rock. Width for barrier is not enough. 2