

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. :                      Designed by :                      Checked by :                      Date :                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
432	1	433	3,545.66	-2.30	0.00	0.00	0.00	-15.50
		434	-3,545.66	2.30	0.00	0.00	0.00	10.89
	2	433	-2,239.51	1.45	0.00	0.00	0.00	9.78
		434	2,239.51	-1.45	0.00	0.00	0.00	-6.87
	3	433	-84.40	0.01	0.00	0.00	0.00	0.06
		434	84.40	-0.01	0.00	0.00	0.00	-0.04
433	1	434	3,545.66	-2.14	0.00	0.00	0.00	-10.89
		435	-3,545.66	2.14	0.00	0.00	0.00	6.61
	2	434	-2,239.50	1.35	0.00	0.00	0.00	6.87
		435	2,239.50	-1.35	0.00	0.00	0.00	-4.17
	3	434	-84.40	0.01	0.00	0.00	0.00	0.04
		435	84.40	-0.01	0.00	0.00	0.00	-0.02
434	1	435	3,545.67	-1.65	0.00	0.00	0.00	-6.61
		436	-3,545.67	1.65	0.00	0.00	0.00	3.31
	2	435	-2,239.50	1.04	0.00	0.00	0.00	4.17
		436	2,239.50	-1.04	0.00	0.00	0.00	-2.09
	3	435	-84.40	0.01	0.00	0.00	0.00	0.02
		436	84.40	-0.01	0.00	0.00	0.00	-0.01
435	1	436	3,545.67	-1.10	0.00	0.00	0.00	-3.31
		437	-3,545.67	1.10	0.00	0.00	0.00	1.11
	2	436	-2,239.50	0.69	0.00	0.00	0.00	2.09
		437	2,239.50	-0.69	0.00	0.00	0.00	-0.70
	3	436	-84.40	0.00	0.00	0.00	0.00	0.01
		437	84.40	0.00	0.00	0.00	0.00	0.00
436	1	437	3,545.67	-0.63	0.00	0.00	0.00	-1.11
		438	-3,545.67	0.63	0.00	0.00	0.00	-0.15
	2	437	-2,239.50	0.40	0.00	0.00	0.00	0.70
		438	2,239.50	-0.40	0.00	0.00	0.00	0.09
	3	437	-84.40	0.00	0.00	0.00	0.00	0.00
		438	84.40	0.00	0.00	0.00	0.00	0.00
437	1	438	3,545.67	-0.28	0.00	0.00	0.00	0.15
		439	-3,545.67	0.28	0.00	0.00	0.00	-0.71
	2	438	-2,239.50	0.18	0.00	0.00	0.00	-0.09
		439	2,239.50	-0.18	0.00	0.00	0.00	0.45
	3	438	-84.40	0.00	0.00	0.00	0.00	0.00
		439	84.40	0.00	0.00	0.00	0.00	0.00
438	1	439	3,545.67	-0.07	0.00	0.00	0.00	0.71
		440	-3,545.67	0.07	0.00	0.00	0.00	-0.85
	2	439	-2,239.50	0.04	0.00	0.00	0.00	-0.45
		440	2,239.50	-0.04	0.00	0.00	0.00	0.53
	3	439	-84.40	0.00	0.00	0.00	0.00	0.00
		440	84.40	0.00	0.00	0.00	0.00	0.00
439	1	440	3,545.66	0.05	0.00	0.00	0.00	0.85
		441	-3,545.66	-0.05	0.00	0.00	0.00	-0.75
	2	440	-2,239.50	-0.03	0.00	0.00	0.00	-0.53
		441	2,239.50	0.03	0.00	0.00	0.00	0.47
	3	440	-84.40	0.00	0.00	0.00	0.00	0.00
		441	84.40	0.00	0.00	0.00	0.00	0.00
440	1	441	3,545.67	0.09	0.00	0.00	0.00	0.75
		442	-3,545.67	-0.09	0.00	0.00	0.00	-0.56
	2	441	-2,239.50	-0.06	0.00	0.00	0.00	-0.47
		442	2,239.50	0.06	0.00	0.00	0.00	0.35
	3	441	-84.40	0.00	0.00	0.00	0.00	0.00
		442	84.40	0.00	0.00	0.00	0.00	0.00
441	1	442	3,545.67	0.10	0.00	0.00	0.00	0.56
		443	-3,545.67	-0.10	0.00	0.00	0.00	-0.36
	2	442	-2,239.50	-0.06	0.00	0.00	0.00	-0.35
		443	2,239.50	0.06	0.00	0.00	0.00	0.23
	3	442	-84.40	0.00	0.00	0.00	0.00	0.00
		443	84.40	0.00	0.00	0.00	0.00	0.00

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

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## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
442	1	443	3,545.67	0.08	0.00	0.00	0.00	0.36
		444	-3,545.67	-0.08	0.00	0.00	0.00	-0.20
	2	443	-2,239.50	-0.05	0.00	0.00	0.00	-0.23
		444	2,239.50	0.05	0.00	0.00	0.00	0.13
	3	443	-84.40	0.00	0.00	0.00	0.00	0.00
		444	84.40	0.00	0.00	0.00	0.00	0.00
443	1	444	3,545.67	0.06	0.00	0.00	0.00	0.20
		445	-3,545.67	-0.06	0.00	0.00	0.00	-0.07
	2	444	-2,239.50	-0.04	0.00	0.00	0.00	-0.13
		445	2,239.50	0.04	0.00	0.00	0.00	0.04
	3	444	-84.40	0.00	0.00	0.00	0.00	0.00
		445	84.40	0.00	0.00	0.00	0.00	0.00
444	1	445	3,545.67	0.05	0.00	0.00	0.00	0.07
		446	-3,545.67	-0.05	0.00	0.00	0.00	0.03
	2	445	-2,239.50	-0.03	0.00	0.00	0.00	-0.04
		446	2,239.50	0.03	0.00	0.00	0.00	-0.02
	3	445	-84.40	0.00	0.00	0.00	0.00	0.00
		446	84.40	0.00	0.00	0.00	0.00	0.00
445	1	446	3,545.67	0.04	0.00	0.00	0.00	-0.03
		424	-3,545.67	-0.04	0.00	0.00	0.00	0.11
	2	446	-2,239.50	-0.03	0.00	0.00	0.00	0.02
		424	2,239.50	0.03	0.00	0.00	0.00	-0.07
	3	446	-84.40	0.00	0.00	0.00	0.00	0.00
		424	84.40	0.00	0.00	0.00	0.00	0.00
446	1	424	3,545.67	0.04	0.00	0.00	0.00	-0.11
		447	-3,545.67	-0.04	0.00	0.00	0.00	0.17
	2	424	-2,239.50	-0.03	0.00	0.00	0.00	0.07
		447	2,239.50	0.03	0.00	0.00	0.00	-0.11
	3	424	-84.40	0.00	0.00	0.00	0.00	0.00
		447	84.40	0.00	0.00	0.00	0.00	0.00
448	1	448	-1,091.74	194.23	0.00	0.00	0.00	2,717.13
		449	1,091.74	-194.23	0.00	0.00	0.00	-971.01
	2	448	689.79	-122.32	0.00	0.00	0.00	-1,714.35
		449	-689.79	122.32	0.00	0.00	0.00	612.75
	3	448	22.89	-8.35	0.00	0.00	0.00	-118.28
		449	-22.89	8.35	0.00	0.00	0.00	43.14
449	1	449	-1,091.74	194.23	0.00	0.00	0.00	971.01
		450	1,091.74	-194.23	0.00	0.00	0.00	1,938.40
	2	449	689.79	-122.32	0.00	0.00	0.00	-612.75
		450	-689.79	122.32	0.00	0.00	0.00	-1,223.57
	3	449	22.89	-8.35	0.00	0.00	0.00	-43.14
		450	-22.89	8.35	0.00	0.00	0.00	-82.09
450	1	450	-1,091.74	138.85	0.00	0.00	0.00	-1,938.37
		452	1,091.74	-138.85	0.00	0.00	0.00	2,146.43
	2	450	689.78	-87.48	0.00	0.00	0.00	1,223.52
		452	-689.78	87.48	0.00	0.00	0.00	-1,354.83
	3	450	22.89	-5.99	0.00	0.00	0.00	82.09
		452	-22.89	5.99	0.00	0.00	0.00	-91.07
451	1	452	-1,091.74	51.85	0.00	0.00	0.00	-2,146.48
		453	1,091.74	-51.85	0.00	0.00	0.00	2,223.96
	2	452	689.79	-32.56	0.00	0.00	0.00	1,354.78
		453	-689.79	32.56	0.00	0.00	0.00	-1,403.68
	3	452	22.89	-2.27	0.00	0.00	0.00	91.07
		453	-22.89	2.27	0.00	0.00	0.00	-94.49
452	1	453	-1,091.73	-14.13	0.00	0.00	0.00	-2,224.00
		454	1,091.73	14.13	0.00	0.00	0.00	2,202.56
	2	453	689.78	9.15	0.00	0.00	0.00	1,403.70
		454	-689.78	-9.15	0.00	0.00	0.00	-1,390.08
	3	453	22.89	0.55	0.00	0.00	0.00	94.48
		454	-22.89	-0.55	0.00	0.00	0.00	-93.66

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Job No. :                      Designed by :                      Checked by :                      Date :                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
453	1	454	-1,091.74	-62.26	0.00	0.00	0.00	-2,202.55
		455	1,091.74	62.26	0.00	0.00	0.00	2,108.95
	2	454	689.78	39.50	0.00	0.00	0.00	1,390.09
		455	-689.78	-39.50	0.00	0.00	0.00	-1,330.94
	3	454	22.89	2.61	0.00	0.00	0.00	93.66
		455	-22.89	-2.61	0.00	0.00	0.00	-89.76
454	1	455	-1,091.75	-95.53	0.00	0.00	0.00	-2,108.95
		456	1,091.75	95.53	0.00	0.00	0.00	1,965.51
	2	455	689.79	60.44	0.00	0.00	0.00	1,330.95
		456	-689.79	-60.44	0.00	0.00	0.00	-1,240.34
	3	455	22.89	4.03	0.00	0.00	0.00	89.76
		456	-22.89	-4.03	0.00	0.00	0.00	-83.72
455	1	456	-1,091.73	-122.83	0.00	0.00	0.00	-1,965.51
		457	1,091.73	122.83	0.00	0.00	0.00	1,781.15
	2	456	689.79	77.68	0.00	0.00	0.00	1,240.35
		457	-689.79	-77.68	0.00	0.00	0.00	-1,123.89
	3	456	22.89	5.20	0.00	0.00	0.00	83.72
		457	-22.89	-5.20	0.00	0.00	0.00	-75.92
456	1	457	-1,091.74	-163.83	0.00	0.00	0.00	-1,781.14
		458	1,091.74	163.83	0.00	0.00	0.00	1,535.31
	2	457	689.78	103.49	0.00	0.00	0.00	1,123.90
		458	-689.78	-103.49	0.00	0.00	0.00	-968.70
	3	457	22.89	6.96	0.00	0.00	0.00	75.92
		458	-22.89	-6.96	0.00	0.00	0.00	-65.49
457	1	458	-1,091.74	-180.82	0.00	0.00	0.00	-1,535.31
		459	1,091.74	180.82	0.00	0.00	0.00	1,264.01
	2	458	689.78	114.18	0.00	0.00	0.00	968.70
		459	-689.78	-114.18	0.00	0.00	0.00	-797.45
	3	458	22.89	7.69	0.00	0.00	0.00	65.49
		459	-22.89	-7.69	0.00	0.00	0.00	-53.95
458	1	459	-1,091.74	-181.16	0.00	0.00	0.00	-1,264.01
		460	1,091.74	181.16	0.00	0.00	0.00	992.23
	2	459	689.78	114.36	0.00	0.00	0.00	797.46
		460	-689.78	-114.36	0.00	0.00	0.00	-625.93
	3	459	22.89	7.72	0.00	0.00	0.00	53.95
		460	-22.89	-7.72	0.00	0.00	0.00	-42.38
459	1	460	-1,091.74	-167.56	0.00	0.00	0.00	-992.23
		461	1,091.74	167.56	0.00	0.00	0.00	740.86
	2	460	689.79	105.75	0.00	0.00	0.00	625.93
		461	-689.79	-105.75	0.00	0.00	0.00	-467.31
	3	460	22.89	7.14	0.00	0.00	0.00	42.38
		461	-22.89	-7.14	0.00	0.00	0.00	-31.67
460	1	461	-1,091.74	-146.15	0.00	0.00	0.00	-740.87
		462	1,091.74	146.15	0.00	0.00	0.00	521.63
	2	461	689.78	92.22	0.00	0.00	0.00	467.31
		462	-689.78	-92.22	0.00	0.00	0.00	-328.98
	3	461	22.89	6.23	0.00	0.00	0.00	31.67
		462	-22.89	-6.23	0.00	0.00	0.00	-22.31
461	1	462	-1,091.74	-121.51	0.00	0.00	0.00	-521.64
		463	1,091.74	121.51	0.00	0.00	0.00	339.37
	2	462	689.79	76.67	0.00	0.00	0.00	328.98
		463	-689.79	-76.67	0.00	0.00	0.00	-213.98
	3	462	22.89	5.19	0.00	0.00	0.00	22.31
		463	-22.89	-5.19	0.00	0.00	0.00	-14.54
462	1	463	-1,091.74	-96.89	0.00	0.00	0.00	-339.38
		464	1,091.74	96.89	0.00	0.00	0.00	194.04
	2	463	689.79	61.12	0.00	0.00	0.00	213.98
		464	-689.79	-61.12	0.00	0.00	0.00	-122.29
	3	463	22.89	4.14	0.00	0.00	0.00	14.54
		464	-22.89	-4.14	0.00	0.00	0.00	-8.33

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. :      Designed by :      Checked by :      Date :      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
463	1	464	-1,091.74	-74.42	0.00	0.00	0.00	-194.04
		465	1,091.74	74.42	0.00	0.00	0.00	82.42
	2	464	689.79	46.94	0.00	0.00	0.00	122.29
		465	-689.79	-46.94	0.00	0.00	0.00	-51.88
	3	464	22.89	3.18	0.00	0.00	0.00	8.33
		465	-22.89	-3.18	0.00	0.00	0.00	-3.56
464	1	465	-1,091.74	-55.32	0.00	0.00	0.00	-82.42
		466	1,091.74	55.32	0.00	0.00	0.00	-0.55
	2	465	689.79	34.89	0.00	0.00	0.00	51.88
		466	-689.79	-34.89	0.00	0.00	0.00	0.45
	3	465	22.89	2.37	0.00	0.00	0.00	3.56
		466	-22.89	-2.37	0.00	0.00	0.00	-0.01
465	1	466	-1,091.74	-40.13	0.00	0.00	0.00	0.55
		467	1,091.74	40.13	0.00	0.00	0.00	-60.74
	2	466	689.78	25.30	0.00	0.00	0.00	-0.45
		467	-689.78	-25.30	0.00	0.00	0.00	38.41
	3	466	22.89	1.72	0.00	0.00	0.00	0.01
		467	-22.89	-1.72	0.00	0.00	0.00	2.57
466	1	467	-1,091.74	-25.13	0.00	0.00	0.00	60.74
		468	1,091.74	25.13	0.00	0.00	0.00	-98.43
	2	467	689.78	15.83	0.00	0.00	0.00	-38.41
		468	-689.78	-15.83	0.00	0.00	0.00	62.17
	3	467	22.89	1.08	0.00	0.00	0.00	-2.57
		468	-22.89	-1.08	0.00	0.00	0.00	4.18
467	1	468	-1,091.74	-14.90	0.00	0.00	0.00	98.43
		469	1,091.74	14.90	0.00	0.00	0.00	-120.77
	2	468	689.78	9.38	0.00	0.00	0.00	-62.17
		469	-689.78	-9.38	0.00	0.00	0.00	76.24
	3	468	22.89	0.64	0.00	0.00	0.00	-4.18
		469	-22.89	-0.64	0.00	0.00	0.00	5.14
468	1	469	-1,091.74	3.72	0.00	0.00	0.00	120.77
		451	1,091.74	-3.72	0.00	0.00	0.00	-115.18
	2	469	689.79	-2.36	0.00	0.00	0.00	-76.24
		451	-689.79	2.36	0.00	0.00	0.00	72.70
	3	469	22.89	-0.16	0.00	0.00	0.00	-5.14
		451	-22.89	0.16	0.00	0.00	0.00	4.91
469	1	451	-1,091.74	13.30	0.00	0.00	0.00	115.18
		471	1,091.74	-13.30	0.00	0.00	0.00	-88.58
	2	451	689.79	-8.40	0.00	0.00	0.00	-72.70
		471	-689.79	8.40	0.00	0.00	0.00	55.90
	3	451	22.89	-0.57	0.00	0.00	0.00	-4.91
		471	-22.89	0.57	0.00	0.00	0.00	3.78
470	1	471	-1,091.74	15.05	0.00	0.00	0.00	88.58
		472	1,091.74	-15.05	0.00	0.00	0.00	-58.49
	2	471	689.78	-9.50	0.00	0.00	0.00	-55.90
		472	-689.78	9.50	0.00	0.00	0.00	36.90
	3	471	22.89	-0.64	0.00	0.00	0.00	-3.78
		472	-22.89	0.64	0.00	0.00	0.00	2.50
471	1	472	-1,091.74	12.78	0.00	0.00	0.00	58.49
		473	1,091.74	-12.78	0.00	0.00	0.00	-32.93
	2	472	689.79	-8.07	0.00	0.00	0.00	-36.90
		473	-689.79	8.07	0.00	0.00	0.00	20.77
	3	472	22.89	-0.55	0.00	0.00	0.00	-2.50
		473	-22.89	0.55	0.00	0.00	0.00	1.41
472	1	473	-1,091.74	9.07	0.00	0.00	0.00	32.93
		474	1,091.74	-9.07	0.00	0.00	0.00	-14.79
	2	473	689.79	-5.72	0.00	0.00	0.00	-20.77
		474	-689.79	5.72	0.00	0.00	0.00	9.32
	3	473	22.89	-0.39	0.00	0.00	0.00	-1.41
		474	-22.89	0.39	0.00	0.00	0.00	0.63

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No.:                      Designed by:                      Checked by:                      Date:                      January 23, 2008

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
473	1	474	-1,091.74	5.71	0.00	0.00	0.00	14.79
		475	1,091.74	-5.71	0.00	0.00	0.00	-3.36
	2	474	689.79	-3.60	0.00	0.00	0.00	-9.32
		475	-689.79	3.60	0.00	0.00	0.00	2.12
	3	474	22.89	-0.24	0.00	0.00	0.00	-0.63
		475	-22.89	0.24	0.00	0.00	0.00	0.14
474	1	475	-1,091.74	3.02	0.00	0.00	0.00	3.36
		476	1,091.74	-3.02	0.00	0.00	0.00	2.68
	2	475	689.78	-1.91	0.00	0.00	0.00	-2.12
		476	-689.78	1.91	0.00	0.00	0.00	-1.70
	3	475	22.89	-0.13	0.00	0.00	0.00	-0.14
		476	-22.89	0.13	0.00	0.00	0.00	-0.11
475	1	476	-1,091.74	1.17	0.00	0.00	0.00	-2.68
		477	1,091.74	-1.17	0.00	0.00	0.00	5.02
	2	476	689.79	-0.74	0.00	0.00	0.00	1.70
		477	-689.79	0.74	0.00	0.00	0.00	-3.17
	3	476	22.89	-0.05	0.00	0.00	0.00	0.11
		477	-22.89	0.05	0.00	0.00	0.00	-0.21
476	1	477	-1,091.74	0.07	0.00	0.00	0.00	-5.02
		478	1,091.74	-0.07	0.00	0.00	0.00	5.15
	2	477	689.79	-0.04	0.00	0.00	0.00	3.17
		478	-689.79	0.04	0.00	0.00	0.00	-3.25
	3	477	22.89	0.00	0.00	0.00	0.00	0.21
		478	-22.89	0.00	0.00	0.00	0.00	-0.22
477	1	478	-1,091.74	-0.47	0.00	0.00	0.00	-5.15
		479	1,091.74	0.47	0.00	0.00	0.00	4.21
	2	478	689.78	0.30	0.00	0.00	0.00	3.25
		479	-689.78	-0.30	0.00	0.00	0.00	-2.66
	3	478	22.89	0.02	0.00	0.00	0.00	0.22
		479	-22.89	-0.02	0.00	0.00	0.00	-0.18
478	1	479	-1,091.74	-0.63	0.00	0.00	0.00	-4.21
		480	1,091.74	0.63	0.00	0.00	0.00	2.96
	2	479	689.79	0.40	0.00	0.00	0.00	2.66
		480	-689.79	-0.40	0.00	0.00	0.00	-1.87
	3	479	22.89	0.03	0.00	0.00	0.00	0.18
		480	-22.89	-0.03	0.00	0.00	0.00	-0.13
479	1	480	-1,091.74	-0.58	0.00	0.00	0.00	-2.96
		481	1,091.74	0.58	0.00	0.00	0.00	1.79
	2	480	689.78	0.37	0.00	0.00	0.00	1.87
		481	-689.78	-0.37	0.00	0.00	0.00	-1.13
	3	480	22.89	0.02	0.00	0.00	0.00	0.13
		481	-22.89	-0.02	0.00	0.00	0.00	-0.08
480	1	481	-1,091.74	-0.45	0.00	0.00	0.00	-1.79
		482	1,091.74	0.45	0.00	0.00	0.00	0.89
	2	481	689.78	0.28	0.00	0.00	0.00	1.13
		482	-689.78	-0.28	0.00	0.00	0.00	-0.56
	3	481	22.89	0.02	0.00	0.00	0.00	0.08
		482	-22.89	-0.02	0.00	0.00	0.00	-0.04
481	1	482	-1,091.74	-0.30	0.00	0.00	0.00	-0.89
		483	1,091.74	0.30	0.00	0.00	0.00	0.30
	2	482	689.79	0.19	0.00	0.00	0.00	0.56
		483	-689.79	-0.19	0.00	0.00	0.00	-0.19
	3	482	22.89	0.01	0.00	0.00	0.00	0.04
		483	-22.89	-0.01	0.00	0.00	0.00	-0.01
482	1	483	-1,091.74	-0.17	0.00	0.00	0.00	-0.30
		484	1,091.74	0.17	0.00	0.00	0.00	-0.04
	2	483	689.79	0.11	0.00	0.00	0.00	0.19
		484	-689.79	-0.11	0.00	0.00	0.00	0.03
	3	483	22.89	0.01	0.00	0.00	0.00	0.01
		484	-22.89	-0.01	0.00	0.00	0.00	0.00

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
483	1	484	-1,091.74	-0.08	0.00	0.00	0.00	0.04
		485	1,091.74	0.08	0.00	0.00	0.00	-0.19
	2	484	689.79	0.05	0.00	0.00	0.00	-0.03
		485	-689.79	-0.05	0.00	0.00	0.00	0.12
	3	484	22.89	0.00	0.00	0.00	0.00	0.00
		485	-22.89	0.00	0.00	0.00	0.00	0.01
484	1	485	-1,091.74	-0.02	0.00	0.00	0.00	0.19
		486	1,091.74	0.02	0.00	0.00	0.00	-0.23
	2	485	689.78	0.01	0.00	0.00	0.00	-0.12
		486	-689.78	-0.01	0.00	0.00	0.00	0.15
	3	485	22.89	0.00	0.00	0.00	0.00	-0.01
		486	-22.89	0.00	0.00	0.00	0.00	0.01
485	1	486	-1,091.74	0.01	0.00	0.00	0.00	0.23
		487	1,091.74	-0.01	0.00	0.00	0.00	-0.20
	2	486	689.78	-0.01	0.00	0.00	0.00	-0.15
		487	-689.78	0.01	0.00	0.00	0.00	0.13
	3	486	22.89	0.00	0.00	0.00	0.00	-0.01
		487	-22.89	0.00	0.00	0.00	0.00	0.01
486	1	487	-1,091.74	0.03	0.00	0.00	0.00	0.20
		488	1,091.74	-0.03	0.00	0.00	0.00	-0.15
	2	487	689.78	-0.02	0.00	0.00	0.00	-0.13
		488	-689.78	0.02	0.00	0.00	0.00	0.10
	3	487	22.89	0.00	0.00	0.00	0.00	-0.01
		488	-22.89	0.00	0.00	0.00	0.00	0.01
487	1	488	-1,091.74	0.03	0.00	0.00	0.00	0.15
		489	1,091.74	-0.03	0.00	0.00	0.00	-0.10
	2	488	689.78	-0.02	0.00	0.00	0.00	-0.10
		489	-689.78	0.02	0.00	0.00	0.00	0.06
	3	488	22.89	0.00	0.00	0.00	0.00	-0.01
		489	-22.89	0.00	0.00	0.00	0.00	0.00
488	1	489	-1,091.74	0.02	0.00	0.00	0.00	0.10
		490	1,091.74	-0.02	0.00	0.00	0.00	-0.05
	2	489	689.78	-0.01	0.00	0.00	0.00	-0.06
		490	-689.78	0.01	0.00	0.00	0.00	0.03
	3	489	22.89	0.00	0.00	0.00	0.00	0.00
		490	-22.89	0.00	0.00	0.00	0.00	0.00
489	1	490	-1,091.74	0.02	0.00	0.00	0.00	0.05
		491	1,091.74	-0.02	0.00	0.00	0.00	-0.02
	2	490	689.79	-0.01	0.00	0.00	0.00	-0.03
		491	-689.79	0.01	0.00	0.00	0.00	0.01
	3	490	22.89	0.00	0.00	0.00	0.00	0.00
		491	-22.89	0.00	0.00	0.00	0.00	0.00
490	1	491	-1,091.74	0.01	0.00	0.00	0.00	0.02
		492	1,091.74	-0.01	0.00	0.00	0.00	0.01
	2	491	689.78	-0.01	0.00	0.00	0.00	-0.01
		492	-689.78	0.01	0.00	0.00	0.00	-0.01
	3	491	22.89	0.00	0.00	0.00	0.00	0.00
		492	-22.89	0.00	0.00	0.00	0.00	0.00
491	1	492	-1,091.74	0.01	0.00	0.00	0.00	-0.01
		470	1,091.74	-0.01	0.00	0.00	0.00	0.03
	2	492	689.78	-0.01	0.00	0.00	0.00	0.01
		470	-689.78	0.01	0.00	0.00	0.00	-0.02
	3	492	22.89	0.00	0.00	0.00	0.00	0.00
		470	-22.89	0.00	0.00	0.00	0.00	0.00
492	1	470	-1,091.74	0.01	0.00	0.00	0.00	-0.03
		493	1,091.74	-0.01	0.00	0.00	0.00	0.05
	2	470	689.78	-0.01	0.00	0.00	0.00	0.02
		493	-689.78	0.01	0.00	0.00	0.00	-0.03
	3	470	22.89	0.00	0.00	0.00	0.00	0.00
		493	-22.89	0.00	0.00	0.00	0.00	0.00

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No.:                      Designed by:                      Checked by:                      Date:                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
494	1	494	1,356.35	202.81	0.00	0.00	0.00	2,919.61
		495	-1,356.35	-202.81	0.00	0.00	0.00	-1,092.04
	2	494	-856.85	-128.25	0.00	0.00	0.00	-1,841.97
		495	856.85	128.25	0.00	0.00	0.00	688.61
	3	494	-42.95	-9.04	0.00	0.00	0.00	-133.62
		495	42.95	9.04	0.00	0.00	0.00	52.28
495	1	495	1,356.35	202.81	0.00	0.00	0.00	1,092.04
		496	-1,356.35	-202.81	0.00	0.00	0.00	1,955.07
	2	495	-856.85	-128.25	0.00	0.00	0.00	-688.61
		496	856.85	128.25	0.00	0.00	0.00	-1,233.21
	3	495	-42.95	-9.04	0.00	0.00	0.00	-52.28
		496	42.95	9.04	0.00	0.00	0.00	-83.29
496	1	496	1,356.35	145.98	0.00	0.00	0.00	-1,955.10
		498	-1,356.35	-145.98	0.00	0.00	0.00	2,174.43
	2	496	-856.85	-92.41	0.00	0.00	0.00	1,233.20
		498	856.85	92.41	0.00	0.00	0.00	-1,371.65
	3	496	-42.95	-6.56	0.00	0.00	0.00	83.29
		498	42.95	6.56	0.00	0.00	0.00	-93.14
497	1	498	1,356.36	56.61	0.00	0.00	0.00	-2,174.43
		499	-1,356.36	-56.61	0.00	0.00	0.00	2,259.73
	2	498	-856.85	-36.00	0.00	0.00	0.00	1,371.65
		499	856.85	36.00	0.00	0.00	0.00	-1,425.51
	3	498	-42.95	-2.67	0.00	0.00	0.00	93.14
		499	42.95	2.67	0.00	0.00	0.00	-97.14
498	1	499	1,356.35	-11.37	0.00	0.00	0.00	-2,259.71
		500	-1,356.35	11.37	0.00	0.00	0.00	2,242.95
	2	499	-856.85	6.90	0.00	0.00	0.00	1,425.47
		500	856.85	-6.90	0.00	0.00	0.00	-1,415.00
	3	499	-42.95	0.30	0.00	0.00	0.00	97.14
		500	42.95	-0.30	0.00	0.00	0.00	-96.68
499	1	500	1,356.36	-60.95	0.00	0.00	0.00	-2,242.96
		501	-1,356.36	60.95	0.00	0.00	0.00	2,151.77
	2	500	-856.86	38.23	0.00	0.00	0.00	1,414.97
		501	856.86	-38.23	0.00	0.00	0.00	-1,357.54
	3	500	-42.95	2.47	0.00	0.00	0.00	96.68
		501	42.95	-2.47	0.00	0.00	0.00	-92.97
500	1	501	1,356.35	-95.27	0.00	0.00	0.00	-2,151.78
		502	-1,356.35	95.27	0.00	0.00	0.00	2,009.07
	2	501	-856.86	59.92	0.00	0.00	0.00	1,357.52
		502	856.86	-59.92	0.00	0.00	0.00	-1,267.58
	3	501	-42.95	3.98	0.00	0.00	0.00	92.97
		502	42.95	-3.98	0.00	0.00	0.00	-87.00
501	1	502	1,356.36	-123.57	0.00	0.00	0.00	-2,009.07
		503	-1,356.36	123.57	0.00	0.00	0.00	1,823.86
	2	502	-856.85	77.79	0.00	0.00	0.00	1,267.58
		503	856.85	-77.79	0.00	0.00	0.00	-1,150.82
	3	502	-42.95	5.23	0.00	0.00	0.00	87.00
		503	42.95	-5.23	0.00	0.00	0.00	-79.16
502	1	503	1,356.37	-166.25	0.00	0.00	0.00	-1,823.86
		504	-1,356.37	166.25	0.00	0.00	0.00	1,574.59
	2	503	-856.85	104.78	0.00	0.00	0.00	1,150.83
		504	856.85	-104.78	0.00	0.00	0.00	-993.62
	3	503	-42.95	7.12	0.00	0.00	0.00	79.16
		504	42.95	-7.12	0.00	0.00	0.00	-68.47
503	1	504	1,356.35	-184.22	0.00	0.00	0.00	-1,574.58
		505	-1,356.35	184.22	0.00	0.00	0.00	1,298.33
	2	504	-856.85	116.14	0.00	0.00	0.00	993.62
		505	856.85	-116.14	0.00	0.00	0.00	-819.38
	3	504	-42.95	7.93	0.00	0.00	0.00	68.47
		505	42.95	-7.93	0.00	0.00	0.00	-56.57

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. :                      Designed by :                      Checked by :                      Date :                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
504	1	505	1,356.35	-185.10	0.00	0.00	0.00	-1,298.33
		506	-1,356.35	185.10	0.00	0.00	0.00	1,020.73
	2	505	-856.86	116.74	0.00	0.00	0.00	819.38
		506	856.86	-116.74	0.00	0.00	0.00	-644.25
	3	505	-42.95	8.01	0.00	0.00	0.00	56.57
		506	42.95	-8.01	0.00	0.00	0.00	-44.56
505	1	506	1,356.36	-171.56	0.00	0.00	0.00	-1,020.73
		507	-1,356.36	171.56	0.00	0.00	0.00	763.42
	2	506	-856.85	108.22	0.00	0.00	0.00	644.25
		507	856.85	-108.22	0.00	0.00	0.00	-481.91
	3	506	-42.95	7.44	0.00	0.00	0.00	44.56
		507	42.95	-7.44	0.00	0.00	0.00	-33.40
506	1	507	1,356.35	-149.88	0.00	0.00	0.00	-763.42
		508	-1,356.35	149.88	0.00	0.00	0.00	538.61
	2	507	-856.85	94.56	0.00	0.00	0.00	481.90
		508	856.85	-94.56	0.00	0.00	0.00	-340.06
	3	507	-42.95	6.52	0.00	0.00	0.00	33.40
		508	42.95	-6.52	0.00	0.00	0.00	-23.63
507	1	508	1,356.35	-124.79	0.00	0.00	0.00	-538.61
		509	-1,356.35	124.79	0.00	0.00	0.00	351.42
	2	508	-856.86	78.75	0.00	0.00	0.00	340.06
		509	856.86	-78.75	0.00	0.00	0.00	-221.93
	3	508	-42.95	5.44	0.00	0.00	0.00	23.63
		509	42.95	-5.44	0.00	0.00	0.00	-15.47
508	1	509	1,356.35	-99.65	0.00	0.00	0.00	-351.42
		510	-1,356.35	99.65	0.00	0.00	0.00	201.93
	2	509	-856.85	62.90	0.00	0.00	0.00	221.93
		510	856.85	-62.90	0.00	0.00	0.00	-127.59
	3	509	-42.95	4.35	0.00	0.00	0.00	15.47
		510	42.95	-4.35	0.00	0.00	0.00	-8.95
509	1	510	1,356.35	-76.66	0.00	0.00	0.00	-201.93
		511	-1,356.35	76.66	0.00	0.00	0.00	86.93
	2	510	-856.85	48.39	0.00	0.00	0.00	127.59
		511	856.85	-48.39	0.00	0.00	0.00	-55.00
	3	510	-42.95	3.35	0.00	0.00	0.00	8.95
		511	42.95	-3.35	0.00	0.00	0.00	-3.92
510	1	511	1,356.35	-57.09	0.00	0.00	0.00	-86.93
		512	-1,356.35	57.09	0.00	0.00	0.00	1.29
	2	511	-856.85	36.05	0.00	0.00	0.00	55.00
		512	856.85	-36.05	0.00	0.00	0.00	-0.93
	3	511	-42.95	2.50	0.00	0.00	0.00	3.92
		512	42.95	-2.50	0.00	0.00	0.00	-0.17
511	1	512	1,356.35	-41.50	0.00	0.00	0.00	-1.29
		513	-1,356.35	41.50	0.00	0.00	0.00	-60.97
	2	512	-856.86	26.21	0.00	0.00	0.00	0.94
		513	856.86	-26.21	0.00	0.00	0.00	38.38
	3	512	-42.95	1.83	0.00	0.00	0.00	0.17
		513	42.95	-1.83	0.00	0.00	0.00	2.57
512	1	513	1,356.36	-26.08	0.00	0.00	0.00	60.97
		514	-1,356.36	26.08	0.00	0.00	0.00	-100.11
	2	513	-856.85	16.48	0.00	0.00	0.00	-38.38
		514	856.85	-16.48	0.00	0.00	0.00	63.10
	3	513	-42.95	1.15	0.00	0.00	0.00	-2.57
		514	42.95	-1.15	0.00	0.00	0.00	4.30
513	1	514	1,356.36	-15.55	0.00	0.00	0.00	100.11
		515	-1,356.36	15.55	0.00	0.00	0.00	-123.45
	2	514	-856.85	9.84	0.00	0.00	0.00	-63.10
		515	856.85	-9.84	0.00	0.00	0.00	77.85
	3	514	-42.95	0.69	0.00	0.00	0.00	-4.30
		515	42.95	-0.69	0.00	0.00	0.00	5.34



# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No.:                      Designed by:                      Checked by:                      Date:                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
514	1	515	1,356.36	3.64	0.00	0.00	0.00	123.45
		497	-1,356.36	-3.64	0.00	0.00	0.00	-118.00
	2	515	-856.85	-2.28	0.00	0.00	0.00	-77.85
		497	856.85	2.28	0.00	0.00	0.00	74.43
	3	515	-42.95	-0.15	0.00	0.00	0.00	-5.34
		497	42.95	0.15	0.00	0.00	0.00	5.12
515	1	497	1,356.35	13.55	0.00	0.00	0.00	118.00
		517	-1,356.35	-13.55	0.00	0.00	0.00	-90.92
	2	497	-856.85	-8.54	0.00	0.00	0.00	-74.43
		517	856.85	8.54	0.00	0.00	0.00	57.36
	3	497	-42.95	-0.58	0.00	0.00	0.00	-5.12
		517	42.95	0.58	0.00	0.00	0.00	3.96
516	1	517	1,356.35	15.40	0.00	0.00	0.00	90.92
		518	-1,356.35	-15.40	0.00	0.00	0.00	-60.13
	2	517	-856.85	-9.71	0.00	0.00	0.00	-57.36
		518	856.85	9.71	0.00	0.00	0.00	37.94
	3	517	-42.95	-0.67	0.00	0.00	0.00	-3.96
		518	42.95	0.67	0.00	0.00	0.00	2.62
517	1	518	1,356.35	13.11	0.00	0.00	0.00	60.13
		519	-1,356.35	-13.11	0.00	0.00	0.00	-33.92
	2	518	-856.86	-8.27	0.00	0.00	0.00	-37.94
		519	856.86	8.27	0.00	0.00	0.00	21.41
	3	518	-42.95	-0.57	0.00	0.00	0.00	-2.62
		519	42.95	0.57	0.00	0.00	0.00	1.48
518	1	519	1,356.35	9.32	0.00	0.00	0.00	33.92
		520	-1,356.35	-9.32	0.00	0.00	0.00	-15.29
	2	519	-856.85	-5.88	0.00	0.00	0.00	-21.41
		520	856.85	5.88	0.00	0.00	0.00	9.65
	3	519	-42.95	-0.41	0.00	0.00	0.00	-1.48
		520	42.95	0.41	0.00	0.00	0.00	0.67
519	1	520	1,356.36	5.88	0.00	0.00	0.00	15.29
		521	-1,356.36	-5.88	0.00	0.00	0.00	-3.53
	2	520	-856.85	-3.71	0.00	0.00	0.00	-9.65
		521	856.85	3.71	0.00	0.00	0.00	2.24
	3	520	-42.95	-0.26	0.00	0.00	0.00	-0.67
		521	42.95	0.26	0.00	0.00	0.00	0.16
520	1	521	1,356.35	3.12	0.00	0.00	0.00	3.53
		522	-1,356.35	-3.12	0.00	0.00	0.00	2.70
	2	521	-856.85	-1.97	0.00	0.00	0.00	-2.24
		522	856.85	1.97	0.00	0.00	0.00	-1.70
	3	521	-42.95	-0.14	0.00	0.00	0.00	-0.16
		522	42.95	0.14	0.00	0.00	0.00	-0.11
521	1	522	1,356.35	1.21	0.00	0.00	0.00	-2.70
		523	-1,356.35	-1.21	0.00	0.00	0.00	5.12
	2	522	-856.85	-0.76	0.00	0.00	0.00	1.70
		523	856.85	0.76	0.00	0.00	0.00	-3.23
	3	522	-42.95	-0.05	0.00	0.00	0.00	0.11
		523	42.95	0.05	0.00	0.00	0.00	-0.22
522	1	523	1,356.35	0.08	0.00	0.00	0.00	-5.12
		524	-1,356.35	-0.08	0.00	0.00	0.00	5.27
	2	523	-856.86	-0.05	0.00	0.00	0.00	3.23
		524	856.86	0.05	0.00	0.00	0.00	-3.32
	3	523	-42.95	0.00	0.00	0.00	0.00	0.22
		524	42.95	0.00	0.00	0.00	0.00	-0.23
523	1	524	1,356.35	-0.47	0.00	0.00	0.00	-5.27
		525	-1,356.35	0.47	0.00	0.00	0.00	4.32
	2	524	-856.85	0.30	0.00	0.00	0.00	3.32
		525	856.85	-0.30	0.00	0.00	0.00	-2.73
	3	524	-42.95	0.02	0.00	0.00	0.00	0.23
		525	42.95	-0.02	0.00	0.00	0.00	-0.19

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. :                      Designed by :                      Checked by :                      Date :                      January 23, 2000

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
524	1	525	1,356.36	-0.64	0.00	0.00	0.00	-4.32
		526	-1,356.36	0.64	0.00	0.00	0.00	3.04
	2	525	-856.86	0.40	0.00	0.00	0.00	2.73
		526	856.86	-0.40	0.00	0.00	0.00	-1.92
	3	525	-42.95	0.03	0.00	0.00	0.00	0.19
		526	42.95	-0.03	0.00	0.00	0.00	-0.13
525	1	526	1,356.35	-0.60	0.00	0.00	0.00	-3.04
		527	-1,356.35	0.60	0.00	0.00	0.00	1.84
	2	526	-856.85	0.38	0.00	0.00	0.00	1.92
		527	856.85	-0.38	0.00	0.00	0.00	-1.16
	3	526	-42.95	0.03	0.00	0.00	0.00	0.13
		527	42.95	-0.03	0.00	0.00	0.00	-0.08
526	1	527	1,356.36	-0.46	0.00	0.00	0.00	-1.84
		528	-1,356.36	0.46	0.00	0.00	0.00	0.92
	2	527	-856.85	0.29	0.00	0.00	0.00	1.16
		528	856.85	-0.29	0.00	0.00	0.00	-0.58
	3	527	-42.95	0.02	0.00	0.00	0.00	0.08
		528	42.95	-0.02	0.00	0.00	0.00	-0.04
527	1	528	1,356.35	-0.31	0.00	0.00	0.00	-0.92
		529	-1,356.35	0.31	0.00	0.00	0.00	0.31
	2	528	-856.85	0.19	0.00	0.00	0.00	0.58
		529	856.85	-0.19	0.00	0.00	0.00	-0.20
	3	528	-42.95	0.01	0.00	0.00	0.00	0.04
		529	42.95	-0.01	0.00	0.00	0.00	-0.01
528	1	529	1,356.36	-0.18	0.00	0.00	0.00	-0.31
		530	-1,356.36	0.18	0.00	0.00	0.00	-0.04
	2	529	-856.85	0.11	0.00	0.00	0.00	0.20
		530	856.85	-0.11	0.00	0.00	0.00	0.03
	3	529	-42.95	0.01	0.00	0.00	0.00	0.01
		530	42.95	-0.01	0.00	0.00	0.00	0.00
529	1	530	1,356.35	-0.08	0.00	0.00	0.00	0.04
		531	-1,356.35	0.08	0.00	0.00	0.00	-0.20
	2	530	-856.85	0.05	0.00	0.00	0.00	-0.03
		531	856.85	-0.05	0.00	0.00	0.00	0.13
	3	530	-42.95	0.00	0.00	0.00	0.00	0.00
		531	42.95	0.00	0.00	0.00	0.00	0.01
530	1	531	1,356.36	-0.02	0.00	0.00	0.00	0.20
		532	-1,356.36	0.02	0.00	0.00	0.00	-0.24
	2	531	-856.85	0.01	0.00	0.00	0.00	-0.13
		532	856.85	-0.01	0.00	0.00	0.00	0.15
	3	531	-42.95	0.00	0.00	0.00	0.00	-0.01
		532	42.95	0.00	0.00	0.00	0.00	0.01
531	1	532	1,356.35	0.01	0.00	0.00	0.00	0.24
		533	-1,356.35	-0.01	0.00	0.00	0.00	-0.21
	2	532	-856.85	-0.01	0.00	0.00	0.00	-0.15
		533	856.85	0.01	0.00	0.00	0.00	0.13
	3	532	-42.95	0.00	0.00	0.00	0.00	-0.01
		533	42.95	0.00	0.00	0.00	0.00	0.01
532	1	533	1,356.35	0.03	0.00	0.00	0.00	0.21
		534	-1,356.35	-0.03	0.00	0.00	0.00	-0.16
	2	533	-856.85	-0.02	0.00	0.00	0.00	-0.13
		534	856.85	0.02	0.00	0.00	0.00	0.10
	3	533	-42.95	0.00	0.00	0.00	0.00	-0.01
		534	42.95	0.00	0.00	0.00	0.00	0.01
533	1	534	1,356.35	0.03	0.00	0.00	0.00	0.16
		535	-1,356.35	-0.03	0.00	0.00	0.00	-0.10
	2	534	-856.85	-0.02	0.00	0.00	0.00	-0.10
		535	856.85	0.02	0.00	0.00	0.00	0.06
	3	534	-42.95	0.00	0.00	0.00	0.00	-0.01
		535	42.95	0.00	0.00	0.00	0.00	0.00

# THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE - 2

Job No. :                      Designed by :                      Checked by :                      Date :                      January 23, 2008

## TEMPERATURE LOADS

MEMB	LOAD	NODE	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
534	1	535	1,356.35	0.02	0.00	0.00	0.00	0.10
		536	-1,356.35	-0.02	0.00	0.00	0.00	-0.06
	2	535	-856.85	-0.01	0.00	0.00	0.00	-0.06
		536	856.85	0.01	0.00	0.00	0.00	0.03
	3	535	-42.95	0.00	0.00	0.00	0.00	0.00
		536	42.95	0.00	0.00	0.00	0.00	0.00
535	1	536	1,356.35	0.02	0.00	0.00	0.00	0.06
		537	-1,356.35	-0.02	0.00	0.00	0.00	-0.02
	2	536	-856.85	-0.01	0.00	0.00	0.00	-0.03
		537	856.85	0.01	0.00	0.00	0.00	0.01
	3	536	-42.95	0.00	0.00	0.00	0.00	0.00
		537	42.95	0.00	0.00	0.00	0.00	0.00
536	1	537	1,356.35	0.01	0.00	0.00	0.00	0.02
		538	-1,356.35	-0.01	0.00	0.00	0.00	0.01
	2	537	-856.85	-0.01	0.00	0.00	0.00	-0.01
		538	856.85	0.01	0.00	0.00	0.00	-0.01
	3	537	-42.95	0.00	0.00	0.00	0.00	0.00
		538	42.95	0.00	0.00	0.00	0.00	0.00
537	1	538	1,356.35	0.01	0.00	0.00	0.00	-0.01
		516	-1,356.35	-0.01	0.00	0.00	0.00	0.03
	2	538	-856.85	-0.01	0.00	0.00	0.00	0.01
		516	856.85	0.01	0.00	0.00	0.00	-0.02
	3	538	-42.95	0.00	0.00	0.00	0.00	0.00
		516	42.95	0.00	0.00	0.00	0.00	0.00
538	1	516	1,356.35	0.01	0.00	0.00	0.00	-0.03
		539	-1,356.35	-0.01	0.00	0.00	0.00	0.05
	2	516	-856.85	-0.01	0.00	0.00	0.00	0.02
		539	856.85	0.01	0.00	0.00	0.00	-0.03
	3	516	-42.95	0.00	0.00	0.00	0.00	0.00
		539	42.95	0.00	0.00	0.00	0.00	0.00

**MAX + MOMENT ENVELOP @ SPAN 1  
OF BOX GIRDER SUPERSTRUCTURE**

THE UNIVERSITY OF CHICAGO PRESS  
50 EAST LAKE STREET, CHICAGO, ILL. 60607  
TEL: 773-703-3800 FAX: 773-703-3173  
WWW.CHICAGO.PRESS.EDU

## THE STUDY ON THE CONSTRUCTION OF THE BRIDGE OVER THE RIVER RUPSA IN KHULNA, PHASE-2

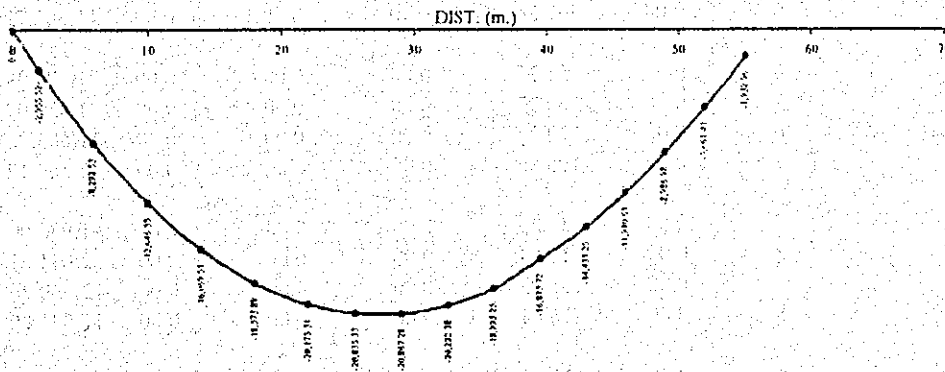
Job No. :      Designed by :      Designed by :      04-Dec-99

### MAX POS. LL MOMENT ENVELOP @ SPAN 1 (DUE TO COMBINED SIDEWALK & LANE LOAD)

Impact Factor,  $I = 15.244 / (1 + 38.11) = 14.10\%$

NODE	SIDEWALK SW	EQUIVALENT LANE LOAD			TOTAL LL + I
		P	W	IMPACT	
1	0.00	0.00	0.00	0.00	0.00
2	-281.38	-520.01	-1,823.66	-330.47	-2,955.52
3	-781.02	-1,521.39	-5,061.85	-928.27	-8,292.53
4	-1,196.50	-2,280.37	-7,754.69	-1,414.99	-12,646.55
5	-1,527.82	-2,842.79	-9,901.85	-1,797.05	-16,069.51
6	-1,774.99	-3,219.12	-11,503.78	-2,076.00	-18,573.89
7	-1,938.00	-3,423.30	-12,560.26	-2,253.75	-20,175.31
8	-2,011.00	-3,460.95	-13,037.08	-2,326.30	-20,835.33
9	-2,020.76	-3,420.95	-13,096.53	-2,329.04	-20,867.28
10	-1,965.45	-3,262.50	-12,738.25	-2,256.18	-20,222.38
11	-1,845.79	-3,066.12	-11,962.27	-2,119.07	-18,993.25
12	-1,661.60	-2,510.85	-10,768.78	-1,872.49	-16,813.72
13	-1,412.94	-2,251.61	-9,157.91	-1,608.79	-14,431.25
14	-1,148.70	-1,987.74	-7,444.22	-1,329.95	-11,910.61
15	-836.93	-1,718.85	-5,424.02	-1,007.18	-8,986.98
16	-477.96	-1,445.33	-3,097.55	-640.57	-5,661.41
17	-71.56	-1,167.57	-463.80	-230.03	-1,932.96

### MAX POS. MOMENT ENVELOP @ SPAN 1



**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 01-Dec-99

Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m  
Load 2 : Uniform Lane load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 1  
(DUE TO SIDEWALK & UNIFORM LANE LOAD)**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
1	1	1	0.00	145.95	0.00	0.00	0.00	0.00
		2	0.00	-135.43	0.00	0.00	0.00	281.39
	2	1	0.00	945.93	0.00	0.00	0.00	-0.01
		2	0.00	-877.75	0.00	0.00	0.00	1,823.65
2	1	2	0.00	135.43	0.00	0.00	0.00	-281.38
		3	0.00	-114.39	0.00	0.00	0.00	781.03
	2	2	0.00	-877.73	0.00	0.00	0.00	-1,823.66
		3	0.00	-741.37	0.00	0.00	0.00	5,061.83
3	1	3	0.00	114.39	0.00	0.00	0.00	-781.02
		4	0.00	-93.35	0.00	0.00	0.00	1,196.52
	2	3	0.00	741.32	0.00	0.00	0.00	-5,061.85
		4	0.00	-604.96	0.00	0.00	0.00	7,754.53
4	1	4	0.00	93.35	0.00	0.00	0.00	-1,196.50
		5	0.00	-72.31	0.00	0.00	0.00	1,527.85
	2	4	0.00	605.00	0.00	0.00	0.00	-7,754.69
		5	0.00	-468.64	0.00	0.00	0.00	9,901.75
5	1	5	0.00	72.31	0.00	0.00	0.00	-1,527.82
		6	0.00	-51.27	0.00	0.00	0.00	1,775.01
	2	5	0.00	468.62	0.00	0.00	0.00	-9,901.85
		6	0.00	-332.26	0.00	0.00	0.00	11,503.72
6	1	6	0.00	51.27	0.00	0.00	0.00	-1,774.99
		7	0.00	-30.23	0.00	0.00	0.00	1,938.00
	2	6	0.00	332.22	0.00	0.00	0.00	-11,503.78
		7	0.00	-195.86	0.00	0.00	0.00	12,560.17
7	1	7	0.00	30.25	0.00	0.00	0.00	-1,938.00
		8	0.00	-11.84	0.00	0.00	0.00	2,011.61
	2	7	0.00	195.92	0.00	0.00	0.00	-12,560.26
		8	0.00	-76.61	0.00	0.00	0.00	13,037.00
8	1	8	0.00	11.81	0.00	0.00	0.00	-2,011.60
		9	0.00	6.60	0.00	0.00	0.00	2,020.76
	2	8	0.00	76.62	0.00	0.00	0.00	-13,037.08
		9	0.00	42.69	0.00	0.00	0.00	13,096.48
9	1	9	0.00	-6.59	0.00	0.00	0.00	-2,020.76
	10	0.00	25.00	0.00	0.00	0.00	0.00	1,965.44

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :                      Designed by :                      Checked by :                      Date :                      01-Dec-99

Note :    Load 1 : Sidewalk Live Load, w = 5.26 KN/m  
          Load 2 : Uniform Lane load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 1  
(DUE TO SIDEWALK & UNIFORM LANE LOAD)**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
	2	9	0.00	-42.74	0.00	0.00	0.00	-13,096.53
		10	0.00	162.05	0.00	0.00	0.00	12,738.19
10	1	10	0.00	-25.00	0.00	0.00	0.00	-1,965.45
		11	0.00	43.41	0.00	0.00	0.00	1,845.76
	2	10	0.00	-162.03	0.00	0.00	0.00	-12,738.25
		11	0.00	281.34	0.00	0.00	0.00	11,962.24
11	1	11	0.00	-43.41	0.00	0.00	0.00	-1,845.79
		12	0.00	61.82	0.00	0.00	0.00	1,661.59
	2	11	0.00	-281.33	0.00	0.00	0.00	-11,962.27
		12	0.00	400.65	0.00	0.00	0.00	10,768.98
12	1	12	0.00	-61.83	0.00	0.00	0.00	-1,661.60
		13	0.00	80.24	0.00	0.00	0.00	1,413.02
	2	12	0.00	-400.61	0.00	0.00	0.00	-10,768.78
		13	0.00	519.92	0.00	0.00	0.00	9,157.65
13	1	13	0.00	-80.22	0.00	0.00	0.00	-1,412.94
		14	0.00	96.00	0.00	0.00	0.00	1,148.73
	2	13	0.00	-520.03	0.00	0.00	0.00	-9,157.91
		14	0.00	622.30	0.00	0.00	0.00	7,444.19
14	1	14	0.00	-96.03	0.00	0.00	0.00	-1,148.70
		15	0.00	111.81	0.00	0.00	0.00	836.93
	2	14	0.00	-622.29	0.00	0.00	0.00	-7,444.22
		15	0.00	724.56	0.00	0.00	0.00	5,424.25
15	1	15	0.00	-111.79	0.00	0.00	0.00	-836.93
		16	0.00	127.57	0.00	0.00	0.00	477.93
	2	15	0.00	-724.40	0.00	0.00	0.00	-5,424.02
		16	0.00	826.67	0.00	0.00	0.00	3,097.70
16	1	16	0.00	-127.60	0.00	0.00	0.00	-477.96
		17	0.00	143.38	0.00	0.00	0.00	71.48
	2	16	0.00	-826.71	0.00	0.00	0.00	-3,097.55
		17	0.00	928.98	0.00	0.00	0.00	463.57
17	1	17	0.00	-143.37	0.00	0.00	0.00	-71.56
		18	0.00	159.15	0.00	0.00	0.00	-382.15
	2	17	0.00	-929.31	0.00	0.00	0.00	-463.80
		18	0.00	1,031.58	0.00	0.00	0.00	-2,477.23



**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No.	Designed by	Checked by	Date : 01-Dec-99
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Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m  
Load 2 : Uniform Lane load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 1  
(DUE TO SIDEWALK & UNIFORM LANE LOAD)**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
18	1	18	0.00	-159.14	0.00	0.00	0.00	382.13
		19	0.00	174.92	0.00	0.00	0.00	-883.22
	2	18	0.00	-1,031.19	0.00	0.00	0.00	2,477.17
		19	0.00	1,133.46	0.00	0.00	0.00	-5,724.14
19	1	19	0.00	-174.91	0.00	0.00	0.00	883.19
		20	0.00	190.69	0.00	0.00	0.00	-1,431.62
	2	19	0.00	-1,133.49	0.00	0.00	0.00	5,724.12
		20	0.00	1,235.76	0.00	0.00	0.00	-9,278.29
20	1	20	0.00	-190.69	0.00	0.00	0.00	1,431.60
		21	0.00	211.73	0.00	0.00	0.00	-2,236.45
	2	20	0.00	-1,235.87	0.00	0.00	0.00	9,278.38
		21	0.00	1,372.23	0.00	0.00	0.00	-14,494.34
21	1	21	0.00	-211.71	0.00	0.00	0.00	2,236.43
		22	0.00	222.23	0.00	0.00	0.00	-2,670.46
	2	21	0.00	-1,372.08	0.00	0.00	0.00	14,494.49
		22	0.00	1,440.26	0.00	0.00	0.00	-17,306.95

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RUPSA RIVER IN KHULNA, PHASE-2**

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 12/1/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN 1  
( DUE TO CONC. LANE LOAD, P = 292.4 KN )**

MEMB	FY/FZ	DIST	LD	MZ/MY	DIST	LD	FX	DIST	LD	
1	MAX	260.01	0.00	1	0.01	0.00	7			
		0.00	0.00	40	0.00	2.00	40	.00 C	0.00	31
	MIN	9.42	2.00	60	-520.01	2.00	1			
		0.00	2.00	27	0.00	2.00	27	.00 T	2.00	33
2	MAX	260.01	0.00	1	-18.84	0.00	60			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	37
	MIN	-38.84	4.00	2	-1,521.39	4.00	2			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	39
3	MAX	247.14	0.00	3	-56.51	0.00	60			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	33
	MIN	-64.36	4.00	6	-2,280.37	4.00	6			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	34
4	MAX	221.73	0.00	7	-94.18	0.00	60			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	37
	MIN	-89.35	4.00	10	-2,842.79	4.00	10			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	39
5	MAX	196.93	0.00	11	-131.86	0.00	60			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	33
	MIN	-113.57	4.00	14	-3,219.12	4.00	14			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	34
6	MAX	172.94	0.00	15	-169.53	0.00	60			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	33
	MIN	-136.80	4.00	18	-3,423.30	4.00	18			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	34
7	MAX	149.98	0.00	19	-207.21	0.00	60			
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00	35
	MIN	-153.44	3.50	21	-3,462.30	2.92	21			
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50	31
8	MAX	133.58	0.00	22	-240.17	0.00	60			
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00	30
	MIN	-174.43	3.50	25	-3,459.58	0.58	22			
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50	46
9	MAX	112.94	0.00	26	-273.14	0.00	60			
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00	35
	MIN	-189.15	3.50	28	-3,420.95	0.00	25			
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50	31

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RUPSA RIVER IN KHULNA, PHASE-2**

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 12/1/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN 1  
( DUE TO CONC. LANE LOAD, P = 292.4 KN )**

MEMB	FY/FZ	DIST	LD	MZ/MY	DIST	LD	FX	DIST	LD
10	MAX	98.56	0.00	29	-295.81	3.50	1		
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00 25
	MIN	-207.22	3.50	32	-3,256.21	0.58	29		
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50 26
11	MAX	80.94	0.00	33	-182.42	3.50	1		
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00 35
	MIN	-219.50	3.50	35	-3,066.12	0.00	32		
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50 31
12	MAX	69.04	0.00	36	-69.04	3.50	1		
		0.00	0.00	40	0.00	3.50	40	.00 C	0.00 25
	MIN	-234.03	3.50	39	-2,747.89	0.29	36		
		0.00	3.50	27	0.00	3.50	27	.00 T	3.50 26
13	MAX	55.14	0.00	40	37.48	3.00	5		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 40
	MIN	-243.47	3.00	42	-2,510.85	0.00	39		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 45
14	MAX	46.04	0.00	43	301.26	3.00	14		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 39
	MIN	-251.81	3.00	45	-2,251.61	0.00	42		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 51
15	MAX	37.94	0.00	46	680.86	3.00	19		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 52
	MIN	-259.35	3.00	48	-1,987.74	0.00	45		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 17
16	MAX	30.71	0.00	49	1,133.21	3.00	22		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 31
	MIN	-266.10	3.00	51	-1,718.85	0.00	48		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 41
17	MAX	24.19	0.00	52	1,637.63	3.00	25		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 35
	MIN	-272.25	3.00	54	-1,445.33	0.00	51		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 31
18	MAX	18.21	0.00	55	2,181.49	3.00	28		
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00 26
	MIN	-277.87	3.00	57	-1,167.57	0.00	54		
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00 51

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RUPSA RIVER IN KHULNA, PHASE-2**

Job No. :                      Designed by :                      Checked by :                      Date :                      12/1/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN 1  
( DUE TO CONC. LANE LOAD, P = 292.4 KN )**

MEMB	FY/FZ	DIST	LD	MZ/MY	DIST	LD	FX	DIST	LD	
19	MAX	12.77	0.00	58	2,757.50	3.00	30			
		0.00	0.00	40	0.00	3.00	40	.00 C	0.00	14
	MIN	-282.99	3.00	60	-886.46	0.00	57			
		0.00	3.00	27	0.00	3.00	27	.00 T	3.00	49
20	MAX	-32.39	0.00	1	3,565.25	4.00	32			
		0.00	0.00	40	0.00	4.00	40	.00 C	0.00	19
	MIN	-282.98	4.00	60	-602.78	0.00	60			
		0.00	4.00	27	0.00	4.00	27	.00 T	4.00	33
21	MAX	-32.40	0.00	1	3,982.74	2.00	33			
		0.00	0.00	40	0.00	2.00	40	.00 C	0.00	36
	MIN	-283.00	2.00	60	529.14	0.00	60			
		0.00	2.00	27	0.00	2.00	27	.00 T	2.00	38

**MAX + MOMENT ENVELOP @ SPAN 2**  
**OF BOX GIRDER SUPERSTRUCTURE**

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

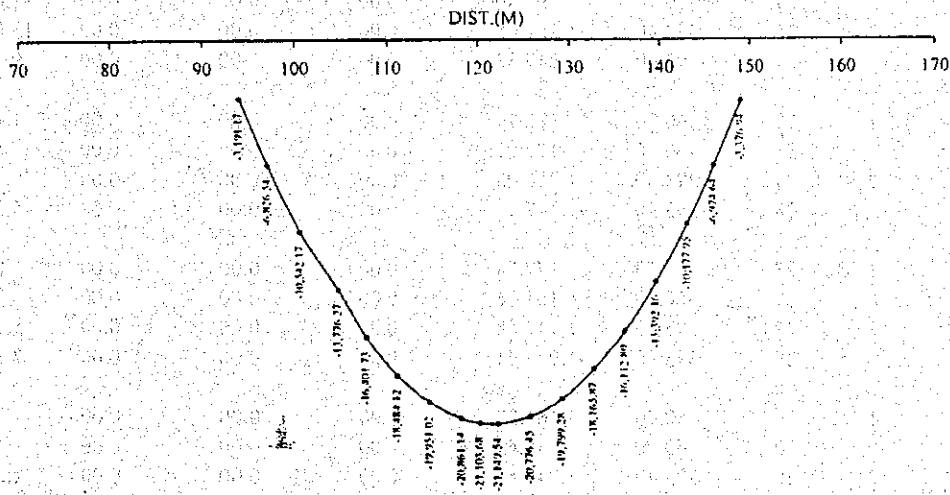
Job No. :                      Designed by :                      Checked by :                      12/4/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN 2  
(DUE TO COMBINED SIDEWALK & LANE LOAD)**

Impact factor,  $I = 15.244 / (L + 38.11) = 11.04\%$

NODE	SIDEWALK SW	EQUIVALENT LANE LOAD			TOTAL LL + I
		P	W	IMPACT	
30	-118.37	-2.000.27	-767.08	-305.45	-3.191.17
31	-531.24	-2.227.19	-3.442.33	-625.78	-6.826.54
32	-952.80	-2.459.95	-6.176.20	-953.22	-10.542.17
33	-1.310.58	-2.733.25	-8.493.30	-1.239.14	-13.776.27
34	-1.603.47	-2.935.06	-10.392.19	-1.471.01	-16.401.73
35	-1.831.86	-3.123.74	-11.873.22	-1.655.30	-18.484.12
36	-1.996.12	-3.233.42	-12.936.69	-1.784.79	-19.951.02
37	-2.095.27	-3.317.08	-13.583.39	-1.865.40	-20.861.14
38	-2.123.46	-3.329.59	-13.763.92	-1.886.71	-21.103.68
39	-2.130.35	-3.322.99	-13.805.62	-1.890.58	-21.149.54
40	-2.091.90	-3.249.26	-13.577.97	-1.857.32	-20.776.45
41	-1.989.07	-3.149.31	-12.890.49	-1.770.41	-19.799.28
42	-1.821.85	-2.911.91	-11.807.45	-1.624.66	-18.165.87
43	-1,590.06	-2,774.47	-10,304.65	-1,443.62	-16,112.80
44	-1,293.87	-2,510.17	-8,385.50	-1,202.62	-13,392.16
45	-933.22	-2,277.55	-6,048.22	-918.96	-10,177.95
46	-572.79	-2,052.07	-3,713.41	-636.37	-6,974.64
47	-165.13	-1,822.03	-1,070.51	-319.27	-3,376.94

**MAX. POS. MOMENT ENVELOP @ SPAN 2**



**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :	Designed by :	Checked by :	Date 02-Dec-99
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Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m.  
Load 2 : Uniform Lane Load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 2 & 4  
( DUE TO SIDEWALK & UNIFORM LANE LOAD )**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
22	1	22	60.70	271.76	0.00	0.00	0.00	-4.888.49
		23	-60.70	-261.24	0.00	0.00	0.00	-4.355.53
	2	22	393.39	1.761.10	0.00	0.00	-0.01	31.682.23
		23	-393.39	-1.692.92	0.00	0.00	0.01	-28.227.94
23	1	23	60.70	261.22	0.00	0.00	0.00	-4.355.51
		24	-60.70	-240.18	0.00	0.00	0.00	-3.352.73
	2	23	393.40	1.692.96	0.00	0.00	-0.01	28.228.31
		24	-393.40	-1.556.60	0.00	0.00	0.01	-21.728.89
24	1	24	60.70	240.19	0.00	0.00	0.00	3.352.71
		25	-60.70	-224.41	0.00	0.00	0.00	-2.655.86
	2	24	393.40	1,556.76	0.00	0.00	-0.01	21,729.31
		25	-393.40	-1,454.49	0.00	0.00	0.00	-17,212.29
25	1	25	60.70	224.36	0.00	0.00	0.00	2.655.80
		26	-60.70	-208.58	0.00	0.00	0.00	-2.006.40
	2	25	393.40	1,453.79	0.00	0.00	0.00	17,211.47
		26	-393.40	-1,351.52	0.00	0.00	0.00	-13,003.87
26	1	26	60.70	208.68	0.00	0.00	0.00	2,006.40
		27	-60.70	-192.90	0.00	0.00	0.00	-1,404.06
	2	26	393.40	1,351.65	0.00	0.00	0.00	13,002.36
		27	-393.40	-1,249.38	0.00	0.00	0.00	-9,100.61
27	1	27	60.70	192.79	0.00	0.00	0.00	1,404.11
		28	-60.70	-177.01	0.00	0.00	0.00	-849.33
	2	27	393.40	1,250.03	0.00	0.00	0.00	9,100.46
		28	-393.40	-1,147.76	0.00	0.00	0.00	-5,504.22
28	1	28	60.70	177.04	0.00	0.00	0.00	849.27
		29	-60.70	-161.26	0.00	0.00	0.00	-341.83
	2	28	393.40	1,147.68	0.00	0.00	0.00	5,504.28
		29	-393.40	-1,045.41	0.00	0.00	0.00	-2,215.30
29	1	29	60.70	161.27	0.00	0.00	0.00	341.81
		30	-60.70	-145.49	0.00	0.00	0.00	118.38
	2	29	393.40	1,044.85	0.00	0.00	0.00	2,215.15
		30	-393.40	-942.58	0.00	0.00	0.00	766.90
30	1	30	60.70	145.49	0.00	0.00	0.00	-118.37
		31	-60.70	-129.71	0.00	0.00	0.00	531.20
	2	30	393.40	943.11	0.00	0.00	0.00	-767.08
		31	-393.40	-840.84	0.00	0.00	0.00	3,442.58

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :	Designed by :	Checked by :	Date 02-Dec-99
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Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m.  
Load 2 : Uniform Lane Load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 2 & 4  
( DUE TO SIDEWALK & UNIFORM LANE LOAD )**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
31	1	31	60.70	129.70	0.00	0.00	0.00	-531.24
		32	-60.70	-111.29	0.00	0.00	0.00	952.97
	2	31	393.40	840.94	0.00	0.00	0.00	-3,442.33
		32	-393.40	-721.62	0.00	0.00	0.00	6,176.74
32	1	32	60.70	111.44	0.00	0.00	0.00	-952.80
		33	-60.70	-93.03	0.00	0.00	0.00	1,310.54
	2	32	393.40	721.50	0.00	0.00	0.00	-6,176.20
		33	-393.40	-602.19	0.00	0.00	0.00	8,492.71
33	1	33	60.70	92.79	0.00	0.00	0.00	-1,310.58
		34	-60.70	-74.38	0.00	0.00	0.00	1,603.09
	2	33	393.40	601.68	0.00	0.00	0.00	-8,493.30
		34	-393.40	-482.36	0.00	0.00	0.00	10,390.24
34	1	34	60.70	74.39	0.00	0.00	0.00	-1,603.47
		35	-60.70	-55.98	0.00	0.00	0.00	1,831.62
	2	34	393.40	482.13	0.00	0.00	0.00	-10,392.19
		35	-393.40	-362.82	0.00	0.00	0.00	11,870.26
35	1	35	60.70	56.04	0.00	0.00	0.00	-1,831.86
		36	-60.70	-37.63	0.00	0.00	0.00	1,995.74
	2	35	393.40	362.52	0.00	0.00	0.00	-11,873.22
		36	-393.40	-243.20	0.00	0.00	0.00	12,933.54
36	1	36	60.70	37.50	0.00	0.00	0.00	-1,996.12
		37	-60.70	-19.09	0.00	0.00	0.00	2,095.21
	2	36	393.40	243.31	0.00	0.00	0.00	-12,936.69
		37	-393.40	-124.00	0.00	0.00	0.00	13,578.87
37	1	37	60.70	19.54	0.00	0.00	0.00	-2,095.27
		38	-60.70	-9.02	0.00	0.00	0.00	2,123.83
	2	37	393.40	122.93	0.00	0.00	0.00	-13,583.39
		38	-393.40	-54.75	0.00	0.00	0.00	13,759.05
38	1	38	60.70	8.84	0.00	0.00	0.00	-2,123.46
		39	-60.70	1.68	0.00	0.00	0.00	2,130.55
	2	38	393.40	55.24	0.00	0.00	0.00	-13,763.92
		39	-393.40	12.94	0.00	0.00	0.00	13,805.60
39	1	39	60.70	-1.74	0.00	0.00	0.00	-2,130.35
		40	-60.70	20.15	0.00	0.00	0.00	2,092.06
	2	39	393.40	-10.70	0.00	0.00	0.00	-13,805.62
		40	-393.40	130.02	0.00	0.00	0.00	13,559.97



**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :	Designed by :	Checked by :	Date : 02-Dec-99
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Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m.  
Load 2 : Uniform Lane Load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 2 & 4  
( DUE TO SIDEWALK & UNIFORM LANE LOAD )**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
40	1	40	60.70	-20.18	0.00	0.00	0.00	-2,091.90
		41	-60.70	38.59	0.00	0.00	0.00	1,989.14
	2	40	393.40	-130.93	0.00	0.00	0.00	-13,557.97
		41	-393.40	250.24	0.00	0.00	0.00	12,891.65
41	1	41	60.70	-38.58	0.00	0.00	0.00	-1,989.07
		42	-60.70	56.99	0.00	0.00	0.00	1,821.76
	2	41	393.40	-249.58	0.00	0.00	0.00	-12,890.49
		42	-393.40	368.89	0.00	0.00	0.00	11,807.94
42	1	42	60.70	-57.05	0.00	0.00	0.00	-1,821.85
		43	-60.70	75.46	0.00	0.00	0.00	1,589.90
	2	42	393.40	-369.94	0.00	0.00	0.00	-11,807.45
		43	-393.40	489.25	0.00	0.00	0.00	10,304.18
43	1	43	60.70	-75.44	0.00	0.00	0.00	-1,590.06
		44	-60.70	93.85	0.00	0.00	0.00	1,293.78
	2	43	393.40	-488.80	0.00	0.00	0.00	-10,304.65
		44	-393.40	608.11	0.00	0.00	0.00	8,385.46
44	1	44	60.70	-93.86	0.00	0.00	0.00	-1,293.87
		45	-60.70	112.27	0.00	0.00	0.00	933.12
	2	44	393.40	-608.20	0.00	0.00	0.00	-8,385.50
		45	-393.40	727.51	0.00	0.00	0.00	6,047.95
45	1	45	60.70	-112.25	0.00	0.00	0.00	-933.22
		46	-60.70	128.03	0.00	0.00	0.00	572.81
	2	45	393.40	-727.30	0.00	0.00	0.00	-6,048.22
		46	-393.40	829.57	0.00	0.00	0.00	3,712.43
46	1	46	60.70	-128.02	0.00	0.00	0.00	-572.79
		47	-60.70	143.80	0.00	0.00	0.00	165.08
	2	46	393.40	-830.45	0.00	0.00	0.00	-3,713.41
		47	-393.40	932.72	0.00	0.00	0.00	1,068.89
47	1	47	60.70	-143.84	0.00	0.00	0.00	-165.13
		48	-60.70	159.62	0.00	0.00	0.00	-290.13
	2	47	393.40	-932.43	0.00	0.00	0.00	-1,070.51
		48	-393.40	1,034.70	0.00	0.00	0.00	-1,880.06
48	1	48	60.70	-159.68	0.00	0.00	0.00	289.95
		49	-60.70	175.46	0.00	0.00	0.00	-792.53

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :	Designed by :	Checked by :	Date 02-Dec-99
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Note : Load 1 : Sidewalk Live Load, w = 5.26 KN/m.  
Load 2 : Uniform Lane Load, w = 34.09 KN/m.

**MAX POS. LL MOMENT ENVELOP @ SPAN 2 & 4  
( DUE TO SIDEWALK & UNIFORM LANE LOAD )**

MEMB	LOAD	NODE	P-AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z
	2	48	393.40	-1.035.21	0.00	0.00	0.00	1.878.52
		49	-393.40	1.137.48	0.00	0.00	0.00	-5.136.91
49	1	49	60.70	-175.41	0.00	0.00	0.00	792.31
		50	-60.70	191.19	0.00	0.00	0.00	-1.342.19
	2	49	393.40	-1.136.73	0.00	0.00	0.00	5.135.25
		50	-393.40	1.239.00	0.00	0.00	0.00	-8.698.98
50	1	50	60.70	-191.18	0.00	0.00	0.00	1.342.06
		51	-60.70	206.96	0.00	0.00	0.00	-1.939.32
	2	50	393.40	-1.238.52	0.00	0.00	0.00	8.698.95
		51	-393.40	1.340.79	0.00	0.00	0.00	-12.567.51
51	1	51	60.70	-206.99	0.00	0.00	0.00	1.939.18
		52	-60.70	222.77	0.00	0.00	0.00	-2.583.78
	2	51	393.40	-1.341.02	0.00	0.00	0.00	12.568.70
		52	-393.40	1.443.29	0.00	0.00	0.00	-16.744.79
52	1	52	60.70	-222.71	0.00	0.00	0.00	2.583.64
		53	-60.70	243.75	0.00	0.00	0.00	-3.516.63
	2	52	393.40	-1.443.36	0.00	0.00	0.00	16.744.62
		53	-393.40	1.579.72	0.00	0.00	0.00	-22.790.96
53	1	53	60.70	-243.70	0.00	0.00	0.00	3.516.60
		54	-60.70	254.22	0.00	0.00	0.00	-4.014.56
	2	53	393.40	-1.580.11	0.00	0.00	0.00	22.790.24
		54	-393.40	1.648.29	0.00	0.00	0.00	-26.019.00

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 12/2/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN2  
(DUE TO CONC LANE LOAD, P =292.40 KN)**

MEMB	FY/FZ	DIST	LD	MZ/MZ	DIST	LD	FX	DIST	LD	
22	MAX	286.13	0.00	1	4,533.16	0.00	34			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	11.52	2.00	90	196.19	2.00	1			
		0.00	2.00	39	0.00	0.00	18	7.01 C	2.00	90
23	MAX	286.14	0.00	1	4,134.26	0.00	35			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-9.37	4.00	3	-547.58	4.00	3			
		0.00	4.00	39	0.00	0.00	18	7.01 C	4.00	90
24	MAX	281.40	0.00	4	3,366.73	0.00	38			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-14.36	3.00	6	-801.83	3.00	6			
		0.00	3.00	39	0.00	3.00	27	7.01 C	3.00	90
25	MAX	276.27	0.00	7	2,821.86	0.00	40			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-19.82	3.00	9	-1,051.88	3.00	9			
		0.00	3.00	39	0.00	3.00	27	7.01 C	3.00	90
26	MAX	270.62	0.00	10	2,307.92	0.00	43			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-25.77	3.00	12	-1,296.91	3.00	12			
		0.00	3.00	39	0.00	3.00	27	7.01 C	3.00	90
27	MAX	264.53	0.00	13	1,830.43	0.00	46			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-32.30	3.00	15	-1,536.63	3.00	15			
		0.00	3.00	39	0.00	3.00	27	7.01 C	3.00	90
28	MAX	257.78	0.00	16	1,394.74	0.00	49			
		0.00	0.00	19	0.00	0.00	34	52.43 C	0.00	37
	MIN	-39.39	3.00	18	-1,770.85	3.00	18			
		0.00	3.00	39	0.00	3.00	27	7.01 C	3.00	90
29	MAX	250.37	0.00	19	1,008.44	0.00	53			
		0.00	0.00	19	0.00	0.00	32	52.43 C	0.00	37
	MIN	-47.31	3.00	21	-2,000.27	3.00	21			
		0.00	3.00	58	0.00	3.00	27	7.01 C	3.00	90
30	MAX	242.41	0.00	22	678.08	0.00	58			
		0.00	0.00	19	0.00	3.00	19	52.44 C	0.00	37
	MIN	-55.87	3.00	24	-2,227.19	3.00	24			
		0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :                      Designed by :                      Checked by :                      Date : 12/2/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN2  
(DUE TO CONC LANE LOAD, P =292.40 KN)**

MEMB	FY/FZ	DIST	LD	MZ/MZ	DIST	LD	FX	DIST	LD
31 MAX	233.32	0.00	25	409.14	0.00	64			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-65.56	3.50	27	-2.437.30	3.21	27		
0.00		3.50	7	0.00	3.50	45	7.01 C	3.50	90
32 MAX	223.47	0.00	28	174.18	0.00	71			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-79.56	3.50	31	-2.733.25	3.50	31		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90
33 MAX	209.21	0.00	32	26.83	0.00	83			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-90.99	3.50	34	-2.903.79	2.92	34		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90
34 MAX	197.56	0.00	35	-20.48	0.00	90			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-107.04	3.50	38	-3.123.74	3.50	38		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90
35 MAX	181.30	0.00	39	-60.78	0.00	90			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-119.51	3.50	41	-3,219.56	2.92	41		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90
36 MAX	168.61	0.00	42	-100.53	3.50	1			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-136.51	3.50	45	-3.317.08	3.50	45		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90
37 MAX	151.57	0.00	46	-88.05	2.00	1			
	0.00	0.00	57	0.00	2.00	57	52.43 C	0.00	37
	MIN	-145.38	2.00	47	-3,329.59	2.00	47		
0.00		2.00	45	0.00	2.00	45	7.01 C	2.00	90
38 MAX	143.49	0.00	48	-75.49	2.00	1			
	0.00	0.00	57	0.00	2.00	57	52.43 C	0.00	37
	MIN	-153.36	2.00	49	-3,329.42	0.00	47		
0.00		2.00	45	0.00	2.00	45	7.01 C	2.00	90
39 MAX	134.56	0.00	50	-53.57	3.50	1			
	0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-166.42	3.50	52	-3,322.99	0.00	49		
0.00		3.50	45	0.00	3.50	45	7.01 C	3.50	90

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :                      Designed by :                      Checked by :                      Date : 12/2/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN2  
(DUE TO CONC LANE LOAD, P =292.40 KN)**

MEMB	FY/FZ	DIST	LD	MZ/MZ	DIST	LD	FX	DIST	LD	
40	MAX	121.74	0.00	53	-31.67	3.50	1			
		0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-183.16	3.50	56	-3.237.18	0.58	53			
		0.00	3.50	45	0.00	3.50	45	7.01 C	3.50	90
41	MAX	105.08	0.00	57	-9.75	3.50	1			
		0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-195.34	3.50	59	-3.149.31	0.00	56			
		0.00	3.50	45	0.00	3.50	45	7.01 C	3.50	90
42	MAX	93.07	0.00	60	18.88	3.50	9			
		0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-210.77	3.50	63	-2.939.21	0.58	60			
		0.00	3.50	45	0.00	3.50	45	7.01 C	3.50	90
43	MAX	77.94	0.00	64	151.05	3.50	23			
		0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-221.56	3.21	66	-2.774.47	0.00	63			
		0.00	3.50	45	0.00	3.50	45	7.01 C	3.50	90
44	MAX	67.38	0.00	67	371.83	3.50	30			
		0.00	0.00	57	0.00	3.50	57	52.43 C	0.00	37
	MIN	-234.72	3.50	70	-2.484.62	0.29	67			
		0.00	3.50	45	0.00	3.50	45	7.01 C	3.50	90
45	MAX	54.69	0.00	71	628.11	3.00	35			
		0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
	MIN	-243.51	3.00	73	-2.277.55	0.00	70			
		0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
46	MAX	46.08	0.00	74	946.81	3.00	40			
		0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
	MIN	-251.60	3.00	76	-2.052.07	0.00	73			
		0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
47	MAX	38.35	0.00	77	1.322.22	3.00	44			
		0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
	MIN	-258.86	3.00	79	-1.822.03	0.00	76			
		0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
48	MAX	31.26	0.00	80	1,748.63	3.00	48			
		0.00	0.00	57	0.00	3.00	57	52.44 C	0.00	37
	MIN	-265.50	3.00	82	-1,585.65	0.00	79			
		0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90

**THE STUDY ON THE CONSTRUCTION OF THE BRIDGE  
OVER THE RIVER RUPSA IN KHULNA, PHASE-2**

Job No. :                      Designed by :                      Checked by :                      Date : 12/2/99

**MAX. POS. LL MOMENT ENVELOP @ SPAN2  
(DUE TO CONC LANE LOAD, P =292.40 KN)**

MEMB	FY/FZ	DIST	LD	MZ/MZ	DIST	LD	FX	DIST	LD
49 MAX	24.73	0.00	83	2.217.95	3.00	51			
	0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
MIN	-271.68	3.00	85	-1.342.24	0.00	82			
	0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
50 MAX	18.81	0.00	86	2.724.68	3.00	54			
	0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
MIN	-277.34	3.00	88	-1.091.56	0.00	85			
	0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
51 MAX	13.26	0.00	89	3.263.10	3.00	56			
	0.00	0.00	57	0.00	3.00	57	52.43 C	0.00	37
MIN	-280.87	3.00	90	-834.36	0.00	88			
	0.00	3.00	45	0.00	3.00	45	7.01 C	3.00	90
52 MAX	-6.26	0.00	1	4.023.41	4.00	59			
	0.00	0.00	57	0.00	4.00	57	52.44 C	0.00	37
MIN	-280.88	4.00	90	-378.71	0.00	90			
	0.00	4.00	45	0.00	4.00	45	7.01 C	4.00	90
53 MAX	-6.26	0.00	1	4.418.77	2.00	60			
	0.00	0.00	57	0.00	2.00	57	52.43 C	0.00	37
MIN	-280.83	2.00	90	212.57	0.00	1			
	0.00	2.00	45	0.00	2.00	45	7.01 C	2.00	90