

## **FRAME – 5 RESULT**

**GEOMETRIC INPUT  
OF FRAME 5 (WHOLE STRUCTURE)**

MN/ELEM

STRUCTURE DATA

TYPE = SPACE

NJ = 815

NM = 814

NE = 0

NS = 0

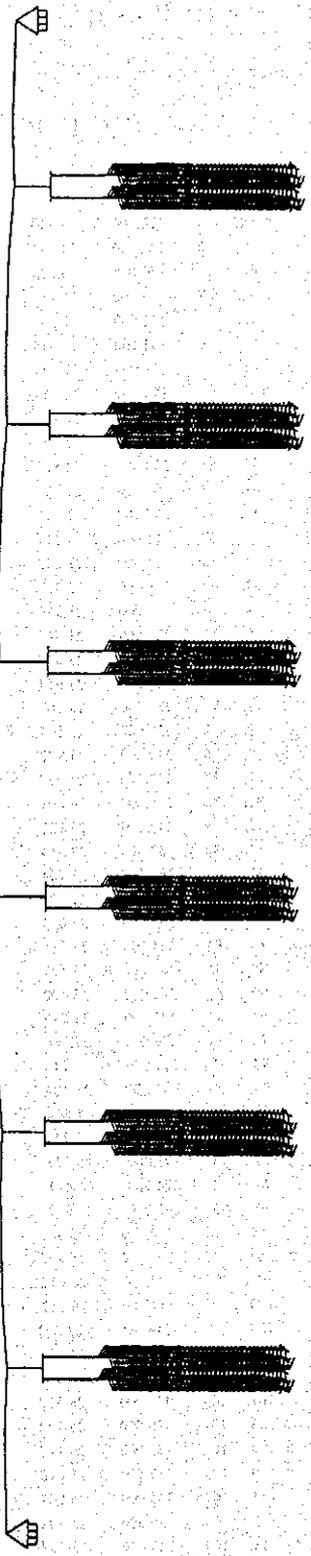
NRJ = 530

NL = 4

XMAX = 540.0

YMAX = 127.4

ZMAX = .0



J=815, M=814

UNIT: MET, KNS

S T A A D P O S T - P L O T (REV: 22.3 )

DATE: JAN 21, 2000

TITLE: RUPSA BRIDGE IN KHULNA



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

|           |               |              |                |
|-----------|---------------|--------------|----------------|
| Job No. : | Designed by : | Checked by : | Date : 1/21/00 |
|-----------|---------------|--------------|----------------|

|      |     |         |        |      |      |     |        |          |      |      |     |         |          |      |
|------|-----|---------|--------|------|------|-----|--------|----------|------|------|-----|---------|----------|------|
| 196. | 192 | 600.500 | 17,972 | .000 | 269. | 265 | 65.250 | -10,000  | .000 | 342. | 338 | 74.750  | -65,500  | .000 |
| 197. | 193 | 604.000 | 17,867 | .000 | 270. | 266 | 65.250 | -25,000  | .000 | 343. | 339 | 74.750  | -67,500  | .000 |
| 198. | 194 | 607.500 | 17,762 | .000 | 271. | 267 | 65.250 | -26,500  | .000 | 344. | 340 | 74.750  | -69,500  | .000 |
| 199. | 195 | 611.000 | 17,657 | .000 | 272. | 268 | 65.250 | -28,000  | .000 | 345. | 341 | 74.750  | -71,500  | .000 |
| 200. | 196 | 614.500 | 17,552 | .000 | 273. | 269 | 65.250 | -29,500  | .000 | 346. | 342 | 74.750  | -73,500  | .000 |
| 201. | 197 | 618.000 | 17,447 | .000 | 274. | 270 | 65.250 | -31,000  | .000 | 347. | 343 | 74.750  | -75,500  | .000 |
| 202. | 198 | 622.000 | 17,327 | .000 | 275. | 271 | 65.250 | -32,500  | .000 | 348. | 344 | 74.750  | -77,500  | .000 |
| 203. | 199 | 626.000 | 17,207 | .000 | 276. | 272 | 65.250 | -34,000  | .000 | 349. | 345 | 74.750  | -79,500  | .000 |
| 204. | 200 | 630.000 | 17,087 | .000 | 277. | 273 | 65.250 | -35,500  | .000 | 350. | 346 | 74.750  | -81,500  | .000 |
| 205. | 201 | 634.000 | 16,967 | .000 | 278. | 274 | 65.250 | -37,000  | .000 | 351. | 347 | 74.750  | -83,500  | .000 |
| 206. | 202 | 638.000 | 16,847 | .000 | 279. | 275 | 65.250 | -38,500  | .000 | 352. | 348 | 74.750  | -85,500  | .000 |
| 207. | 203 | 640.000 | 16,787 | .000 | 280. | 276 | 65.250 | -40,000  | .000 | 353. | 349 | 74.750  | -87,500  | .000 |
| 208. | 204 | 70.000  | 14,000 | .000 | 281. | 277 | 65.250 | -41,500  | .000 | 354. | 350 | 74.750  | -89,500  | .000 |
| 209. | 205 | 70.000  | 12,500 | .000 | 282. | 278 | 65.250 | -43,000  | .000 | 355. | 351 | 74.750  | -91,500  | .000 |
| 210. | 206 | 70.000  | 8,000  | .000 | 283. | 279 | 65.250 | -44,500  | .000 | 356. | 352 | 74.750  | -93,500  | .000 |
| 211. | 207 | 70.000  | 3,500  | .000 | 284. | 280 | 65.250 | -46,000  | .000 | 357. | 353 | 74.750  | -95,500  | .000 |
| 212. | 208 | 70.000  | 2,000  | .000 | 285. | 281 | 65.250 | -47,500  | .000 | 358. | 354 | 74.750  | -97,500  | .000 |
| 213. | 209 | 70.000  | .500   | .000 | 286. | 282 | 65.250 | -49,000  | .000 | 359. | 355 | 74.750  | -101,000 | .000 |
| 214. | 210 | 170.000 | 17,000 | .000 | 287. | 283 | 65.250 | -50,500  | .000 | 360. | 356 | 165.250 | -1,000   | .000 |
| 215. | 211 | 170.000 | 15,500 | .000 | 288. | 284 | 65.250 | -52,000  | .000 | 361. | 357 | 165.250 | -10,000  | .000 |
| 216. | 212 | 170.000 | 9,500  | .000 | 289. | 285 | 65.250 | -53,500  | .000 | 362. | 358 | 165.250 | -25,000  | .000 |
| 217. | 213 | 170.000 | 3,500  | .000 | 290. | 286 | 65.250 | -55,500  | .000 | 363. | 359 | 165.250 | -53,500  | .000 |
| 218. | 214 | 170.000 | 2,000  | .000 | 291. | 287 | 65.250 | -57,500  | .000 | 364. | 360 | 165.250 | -26,500  | .000 |
| 219. | 215 | 170.000 | .500   | .000 | 292. | 288 | 65.250 | -59,500  | .000 | 365. | 361 | 165.250 | -28,000  | .000 |
| 220. | 216 | 270.000 | 20,000 | .000 | 293. | 289 | 65.250 | -61,500  | .000 | 366. | 362 | 165.250 | -29,500  | .000 |
| 221. | 217 | 270.000 | 18,500 | .000 | 294. | 290 | 65.250 | -63,500  | .000 | 367. | 363 | 165.250 | -31,000  | .000 |
| 222. | 218 | 270.000 | 11,000 | .000 | 295. | 291 | 65.250 | -65,500  | .000 | 368. | 364 | 165.250 | -32,500  | .000 |
| 223. | 219 | 270.000 | 3,500  | .000 | 296. | 292 | 65.250 | -67,500  | .000 | 369. | 365 | 165.250 | -34,000  | .000 |
| 224. | 220 | 270.000 | 2,000  | .000 | 297. | 293 | 65.250 | -69,500  | .000 | 370. | 366 | 165.250 | -35,500  | .000 |
| 225. | 221 | 270.000 | .500   | .000 | 298. | 294 | 65.250 | -71,500  | .000 | 371. | 367 | 165.250 | -37,000  | .000 |
| 226. | 222 | 370.000 | 20,000 | .000 | 299. | 295 | 65.250 | -73,500  | .000 | 372. | 368 | 165.250 | -38,500  | .000 |
| 227. | 223 | 370.000 | 18,500 | .000 | 300. | 296 | 65.250 | -75,500  | .000 | 373. | 369 | 165.250 | -40,000  | .000 |
| 228. | 224 | 370.000 | 11,000 | .000 | 301. | 297 | 65.250 | -77,500  | .000 | 374. | 370 | 165.250 | -41,500  | .000 |
| 229. | 225 | 370.000 | 3,500  | .000 | 302. | 298 | 65.250 | -79,500  | .000 | 375. | 371 | 165.250 | -43,000  | .000 |
| 230. | 226 | 370.000 | 2,000  | .000 | 303. | 299 | 65.250 | -81,500  | .000 | 376. | 372 | 165.250 | -44,500  | .000 |
| 231. | 227 | 370.000 | .500   | .000 | 304. | 300 | 65.250 | -83,500  | .000 | 377. | 373 | 165.250 | -46,000  | .000 |
| 232. | 228 | 470.000 | 17,000 | .000 | 305. | 301 | 65.250 | -85,500  | .000 | 378. | 374 | 165.250 | -47,500  | .000 |
| 233. | 229 | 470.000 | 15,500 | .000 | 306. | 302 | 65.250 | -87,500  | .000 | 379. | 375 | 165.250 | -49,000  | .000 |
| 234. | 230 | 470.000 | 9,500  | .000 | 307. | 303 | 65.250 | -89,500  | .000 | 380. | 376 | 165.250 | -50,500  | .000 |
| 235. | 231 | 470.000 | 3,500  | .000 | 308. | 304 | 65.250 | -91,500  | .000 | 381. | 377 | 165.250 | -52,000  | .000 |
| 236. | 232 | 470.000 | 2,000  | .000 | 309. | 305 | 65.250 | -93,500  | .000 | 382. | 378 | 165.250 | -53,500  | .000 |
| 237. | 233 | 470.000 | .500   | .000 | 310. | 306 | 65.250 | -95,500  | .000 | 383. | 379 | 165.250 | -55,500  | .000 |
| 238. | 234 | 570.000 | 14,000 | .000 | 311. | 307 | 65.250 | -97,500  | .000 | 384. | 380 | 165.250 | -57,500  | .000 |
| 239. | 235 | 570.000 | 12,500 | .000 | 312. | 308 | 65.250 | -99,500  | .000 | 385. | 381 | 165.250 | -59,500  | .000 |
| 240. | 236 | 570.000 | 8,000  | .000 | 313. | 309 | 65.250 | -101,000 | .000 | 386. | 382 | 165.250 | -61,500  | .000 |
| 241. | 237 | 570.000 | 3,500  | .000 | 314. | 310 | 74.750 | -1,000   | .000 | 387. | 383 | 165.250 | -63,500  | .000 |
| 242. | 238 | 570.000 | 2,000  | .000 | 315. | 311 | 74.750 | -10,000  | .000 | 388. | 384 | 165.250 | -65,500  | .000 |
| 243. | 239 | 570.000 | .500   | .000 | 316. | 312 | 74.750 | -25,000  | .000 | 389. | 385 | 165.250 | -67,500  | .000 |
| 244. | 240 | 65.250  | .500   | .000 | 317. | 313 | 74.750 | -33,500  | .000 | 390. | 386 | 165.250 | -69,500  | .000 |
| 245. | 241 | 63.500  | .500   | .000 | 318. | 314 | 74.750 | -26,500  | .000 | 391. | 387 | 165.250 | -71,500  | .000 |
| 246. | 242 | 74.750  | .500   | .000 | 319. | 315 | 74.750 | -28,000  | .000 | 392. | 388 | 165.250 | -73,500  | .000 |
| 247. | 243 | 76.500  | .500   | .000 | 320. | 316 | 74.750 | -29,500  | .000 | 393. | 389 | 165.250 | -75,500  | .000 |
| 248. | 244 | 165.250 | .500   | .000 | 321. | 317 | 74.750 | -31,000  | .000 | 394. | 390 | 165.250 | -77,500  | .000 |
| 249. | 245 | 163.500 | .500   | .000 | 322. | 318 | 74.750 | -32,500  | .000 | 395. | 391 | 165.250 | -79,500  | .000 |
| 250. | 246 | 174.750 | .500   | .000 | 323. | 319 | 74.750 | -34,000  | .000 | 396. | 392 | 165.250 | -81,500  | .000 |
| 251. | 247 | 176.500 | .500   | .000 | 324. | 320 | 74.750 | -35,500  | .000 | 397. | 393 | 165.250 | -83,500  | .000 |
| 252. | 248 | 265.250 | .500   | .000 | 325. | 321 | 74.750 | -37,000  | .000 | 398. | 394 | 165.250 | -85,500  | .000 |
| 253. | 249 | 263.500 | .500   | .000 | 326. | 322 | 74.750 | -38,500  | .000 | 399. | 395 | 165.250 | -87,500  | .000 |
| 254. | 250 | 274.750 | .500   | .000 | 327. | 323 | 74.750 | -40,000  | .000 | 400. | 396 | 165.250 | -89,500  | .000 |
| 255. | 251 | 276.500 | .500   | .000 | 328. | 324 | 74.750 | -41,500  | .000 | 401. | 397 | 165.250 | -91,500  | .000 |
| 256. | 252 | 365.250 | .500   | .000 | 329. | 325 | 74.750 | -43,000  | .000 | 402. | 398 | 165.250 | -93,500  | .000 |
| 257. | 253 | 363.500 | .500   | .000 | 330. | 326 | 74.750 | -44,500  | .000 | 403. | 399 | 165.250 | -95,500  | .000 |
| 258. | 254 | 374.750 | .500   | .000 | 331. | 327 | 74.750 | -46,000  | .000 | 404. | 400 | 165.250 | -97,500  | .000 |
| 259. | 255 | 376.500 | .500   | .000 | 332. | 328 | 74.750 | -47,500  | .000 | 405. | 401 | 165.250 | -101,000 | .000 |
| 260. | 256 | 465.250 | .500   | .000 | 333. | 329 | 74.750 | -49,000  | .000 | 406. | 402 | 174.750 | -1,000   | .000 |
| 261. | 257 | 463.500 | .500   | .000 | 334. | 330 | 74.750 | -50,500  | .000 | 407. | 403 | 174.750 | -10,000  | .000 |
| 262. | 258 | 474.750 | .500   | .000 | 335. | 331 | 74.750 | -52,000  | .000 | 408. | 404 | 174.750 | -25,000  | .000 |
| 263. | 259 | 476.500 | .500   | .000 | 336. | 332 | 74.750 | -53,500  | .000 | 409. | 405 | 174.750 | -53,500  | .000 |
| 264. | 260 | 565.250 | .500   | .000 | 337. | 333 | 74.750 | -55,500  | .000 | 410. | 406 | 174.750 | -26,500  | .000 |
| 265. | 261 | 563.500 | .500   | .000 | 338. | 334 | 74.750 | -57,500  | .000 | 411. | 407 | 174.750 | -28,000  | .000 |
| 266. | 262 | 574.750 | .500   | .000 | 339. | 335 | 74.750 | -59,500  | .000 | 412. | 408 | 174.750 | -29,500  | .000 |
| 267. | 263 | 576.500 | .500   | .000 | 340. | 336 | 74.750 | -61,500  | .000 | 413. | 409 | 174.750 | -31,000  | .000 |
| 268. | 264 | 65.250  | -1,000 | .000 | 341. | 337 | 74.750 | -63,500  | .000 | 414. | 410 | 174.750 | -32,500  | .000 |

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

| ob No. : | Designed by : | Checked by : | Date :   |      |      |     |         |          |      |      |     |         |          |      |
|----------|---------------|--------------|----------|------|------|-----|---------|----------|------|------|-----|---------|----------|------|
|          |               |              | 1/21/00  |      |      |     |         |          |      |      |     |         |          |      |
| 415.     | 411           | 174.750      | -34.000  | .000 | 488. | 484 | 265.250 | -81.500  | .000 | 561. | 557 | 365.250 | -46.000  | .000 |
| 416.     | 412           | 174.750      | -35.500  | .000 | 489. | 485 | 265.250 | -83.500  | .000 | 562. | 558 | 365.250 | -47.500  | .000 |
| 417.     | 413           | 174.750      | -37.000  | .000 | 490. | 486 | 265.250 | -85.500  | .000 | 563. | 559 | 365.250 | -49.000  | .000 |
| 418.     | 414           | 174.750      | -38.500  | .000 | 491. | 487 | 265.250 | -87.500  | .000 | 564. | 560 | 365.250 | -50.500  | .000 |
| 419.     | 415           | 174.750      | -40.000  | .000 | 492. | 488 | 265.250 | -89.500  | .000 | 565. | 561 | 365.250 | -52.000  | .000 |
| 420.     | 416           | 174.750      | -41.500  | .000 | 493. | 489 | 265.250 | -91.500  | .000 | 566. | 562 | 365.250 | -53.500  | .000 |
| 421.     | 417           | 174.750      | -43.000  | .000 | 494. | 490 | 265.250 | -93.500  | .000 | 567. | 563 | 365.250 | -55.500  | .000 |
| 422.     | 418           | 174.750      | -44.500  | .000 | 495. | 491 | 265.250 | -95.500  | .000 | 568. | 564 | 365.250 | -57.500  | .000 |
| 423.     | 419           | 174.750      | -46.000  | .000 | 496. | 492 | 265.250 | -97.500  | .000 | 569. | 565 | 365.250 | -59.500  | .000 |
| 424.     | 420           | 174.750      | -47.500  | .000 | 497. | 493 | 265.250 | -101.000 | .000 | 570. | 566 | 365.250 | -61.500  | .000 |
| 425.     | 421           | 174.750      | -49.000  | .000 | 498. | 494 | 274.750 | -1.000   | .000 | 571. | 567 | 365.250 | -63.500  | .000 |
| 426.     | 422           | 174.750      | -50.500  | .000 | 499. | 495 | 274.750 | -10.000  | .000 | 572. | 568 | 365.250 | -65.500  | .000 |
| 427.     | 423           | 174.750      | -52.000  | .000 | 500. | 496 | 274.750 | -25.000  | .000 | 573. | 569 | 365.250 | -67.500  | .000 |
| 428.     | 424           | 174.750      | -53.500  | .000 | 501. | 497 | 274.750 | -53.500  | .000 | 574. | 570 | 365.250 | -69.500  | .000 |
| 429.     | 425           | 174.750      | -55.500  | .000 | 502. | 498 | 274.750 | -26.500  | .000 | 575. | 571 | 365.250 | -71.500  | .000 |
| 430.     | 426           | 174.750      | -57.500  | .000 | 503. | 499 | 274.750 | -28.000  | .000 | 576. | 572 | 365.250 | -73.500  | .000 |
| 431.     | 427           | 174.750      | -59.500  | .000 | 504. | 500 | 274.750 | -29.500  | .000 | 577. | 573 | 365.250 | -75.500  | .000 |
| 432.     | 428           | 174.750      | -61.500  | .000 | 505. | 501 | 274.750 | -31.000  | .000 | 578. | 574 | 365.250 | -77.500  | .000 |
| 433.     | 429           | 174.750      | -63.500  | .000 | 506. | 502 | 274.750 | -32.500  | .000 | 579. | 575 | 365.250 | -79.500  | .000 |
| 434.     | 430           | 174.750      | -65.500  | .000 | 507. | 503 | 274.750 | -34.000  | .000 | 580. | 576 | 365.250 | -81.500  | .000 |
| 435.     | 431           | 174.750      | -67.500  | .000 | 508. | 504 | 274.750 | -35.500  | .000 | 581. | 577 | 365.250 | -83.500  | .000 |
| 436.     | 432           | 174.750      | -69.500  | .000 | 509. | 505 | 274.750 | -37.000  | .000 | 582. | 578 | 365.250 | -85.500  | .000 |
| 437.     | 433           | 174.750      | -71.500  | .000 | 510. | 506 | 274.750 | -38.500  | .000 | 583. | 579 | 365.250 | -87.500  | .000 |
| 438.     | 434           | 174.750      | -73.500  | .000 | 511. | 507 | 274.750 | -40.000  | .000 | 584. | 580 | 365.250 | -89.500  | .000 |
| 439.     | 435           | 174.750      | -75.500  | .000 | 512. | 508 | 274.750 | -41.500  | .000 | 585. | 581 | 365.250 | -91.500  | .000 |
| 440.     | 436           | 174.750      | -77.500  | .000 | 513. | 509 | 274.750 | -43.000  | .000 | 586. | 582 | 365.250 | -93.500  | .000 |
| 441.     | 437           | 174.750      | -79.500  | .000 | 514. | 510 | 274.750 | -44.500  | .000 | 587. | 583 | 365.250 | -95.500  | .000 |
| 442.     | 438           | 174.750      | -81.500  | .000 | 515. | 511 | 274.750 | -46.000  | .000 | 588. | 584 | 365.250 | -97.500  | .000 |
| 443.     | 439           | 174.750      | -83.500  | .000 | 516. | 512 | 274.750 | -47.500  | .000 | 589. | 585 | 365.250 | -101.000 | .000 |
| 444.     | 440           | 174.750      | -85.500  | .000 | 517. | 513 | 274.750 | -49.000  | .000 | 590. | 586 | 374.750 | -1.000   | .000 |
| 445.     | 441           | 174.750      | -87.500  | .000 | 518. | 514 | 274.750 | -50.500  | .000 | 591. | 587 | 374.750 | -10.000  | .000 |
| 446.     | 442           | 174.750      | -89.500  | .000 | 519. | 515 | 274.750 | -52.000  | .000 | 592. | 588 | 374.750 | -25.000  | .000 |
| 447.     | 443           | 174.750      | -91.500  | .000 | 520. | 516 | 274.750 | -99.500  | .000 | 593. | 589 | 374.750 | -53.500  | .000 |
| 448.     | 444           | 174.750      | -93.500  | .000 | 521. | 517 | 274.750 | -55.500  | .000 | 594. | 590 | 374.750 | -26.500  | .000 |
| 449.     | 445           | 174.750      | -95.500  | .000 | 522. | 518 | 274.750 | -57.500  | .000 | 595. | 591 | 374.750 | -28.000  | .000 |
| 450.     | 446           | 174.750      | -97.500  | .000 | 523. | 519 | 274.750 | -59.500  | .000 | 596. | 592 | 374.750 | -29.500  | .000 |
| 451.     | 447           | 174.750      | -101.000 | .000 | 524. | 520 | 274.750 | -61.500  | .000 | 597. | 593 | 374.750 | -31.000  | .000 |
| 452.     | 448           | 265.250      | -1.000   | .000 | 525. | 521 | 274.750 | -63.500  | .000 | 598. | 594 | 374.750 | -32.500  | .000 |
| 453.     | 449           | 265.250      | -10.000  | .000 | 526. | 522 | 274.750 | -65.500  | .000 | 599. | 595 | 374.750 | -34.000  | .000 |
| 454.     | 450           | 265.250      | -25.000  | .000 | 527. | 523 | 274.750 | -67.500  | .000 | 600. | 596 | 374.750 | -35.500  | .000 |
| 455.     | 451           | 265.250      | -53.500  | .000 | 528. | 524 | 274.750 | -69.500  | .000 | 601. | 597 | 374.750 | -37.000  | .000 |
| 456.     | 452           | 265.250      | -26.500  | .000 | 529. | 525 | 274.750 | -71.500  | .000 | 602. | 598 | 374.750 | -38.500  | .000 |
| 457.     | 453           | 265.250      | -28.000  | .000 | 530. | 526 | 274.750 | -73.500  | .000 | 603. | 599 | 374.750 | -40.000  | .000 |
| 458.     | 454           | 265.250      | -29.500  | .000 | 531. | 527 | 274.750 | -75.500  | .000 | 604. | 600 | 374.750 | -41.500  | .000 |
| 459.     | 455           | 265.250      | -31.000  | .000 | 532. | 528 | 274.750 | -77.500  | .000 | 605. | 601 | 374.750 | -43.000  | .000 |
| 460.     | 456           | 265.250      | -32.500  | .000 | 533. | 529 | 274.750 | -79.500  | .000 | 606. | 602 | 374.750 | -44.500  | .000 |
| 461.     | 457           | 265.250      | -34.000  | .000 | 534. | 530 | 274.750 | -81.500  | .000 | 607. | 603 | 374.750 | -46.000  | .000 |
| 462.     | 458           | 265.250      | -35.500  | .000 | 535. | 531 | 274.750 | -83.500  | .000 | 608. | 604 | 374.750 | -47.500  | .000 |
| 463.     | 459           | 265.250      | -37.000  | .000 | 536. | 532 | 274.750 | -85.500  | .000 | 609. | 605 | 374.750 | -49.000  | .000 |
| 464.     | 460           | 265.250      | -38.500  | .000 | 537. | 533 | 274.750 | -87.500  | .000 | 610. | 606 | 374.750 | -50.500  | .000 |
| 465.     | 461           | 265.250      | -40.000  | .000 | 538. | 534 | 274.750 | -89.500  | .000 | 611. | 607 | 374.750 | -52.000  | .000 |
| 466.     | 462           | 265.250      | -41.500  | .000 | 539. | 535 | 274.750 | -91.500  | .000 | 612. | 608 | 374.750 | -53.500  | .000 |
| 467.     | 463           | 265.250      | -43.000  | .000 | 540. | 536 | 274.750 | -93.500  | .000 | 613. | 609 | 374.750 | -55.500  | .000 |
| 468.     | 464           | 265.250      | -44.500  | .000 | 541. | 537 | 274.750 | -95.500  | .000 | 614. | 610 | 374.750 | -57.500  | .000 |
| 469.     | 465           | 265.250      | -46.000  | .000 | 542. | 538 | 274.750 | -97.500  | .000 | 615. | 611 | 374.750 | -59.500  | .000 |
| 470.     | 466           | 265.250      | -47.500  | .000 | 543. | 539 | 274.750 | -101.000 | .000 | 616. | 612 | 374.750 | -61.500  | .000 |
| 471.     | 467           | 265.250      | -49.000  | .000 | 544. | 540 | 365.250 | -1.000   | .000 | 617. | 613 | 374.750 | -63.500  | .000 |
| 472.     | 468           | 265.250      | -50.500  | .000 | 545. | 541 | 365.250 | -10.000  | .000 | 618. | 614 | 374.750 | -65.500  | .000 |
| 473.     | 469           | 265.250      | -52.000  | .000 | 546. | 542 | 365.250 | -25.000  | .000 | 619. | 615 | 374.750 | -67.500  | .000 |
| 474.     | 470           | 265.250      | -53.500  | .000 | 547. | 543 | 365.250 | -53.500  | .000 | 620. | 616 | 374.750 | -69.500  | .000 |
| 475.     | 471           | 265.250      | -55.500  | .000 | 548. | 544 | 365.250 | -26.500  | .000 | 621. | 617 | 374.750 | -71.500  | .000 |
| 476.     | 472           | 265.250      | -57.500  | .000 | 549. | 545 | 365.250 | -28.000  | .000 | 622. | 618 | 374.750 | -73.500  | .000 |
| 477.     | 473           | 265.250      | -59.500  | .000 | 550. | 546 | 365.250 | -29.500  | .000 | 623. | 619 | 374.750 | -75.500  | .000 |
| 478.     | 474           | 265.250      | -61.500  | .000 | 551. | 547 | 365.250 | -31.000  | .000 | 624. | 620 | 374.750 | -77.500  | .000 |
| 479.     | 475           | 265.250      | -63.500  | .000 | 552. | 548 | 365.250 | -32.500  | .000 | 625. | 621 | 374.750 | -79.500  | .000 |
| 480.     | 476           | 265.250      | -65.500  | .000 | 553. | 549 | 365.250 | -34.000  | .000 | 626. | 622 | 374.750 | -81.500  | .000 |
| 481.     | 477           | 265.250      | -67.500  | .000 | 554. | 550 | 365.250 | -35.500  | .000 | 627. | 623 | 374.750 | -83.500  | .000 |
| 482.     | 478           | 265.250      | -69.500  | .000 | 555. | 551 | 365.250 | -37.000  | .000 | 628. | 624 | 374.750 | -85.500  | .000 |
| 483.     | 479           | 265.250      | -71.500  | .000 | 556. | 552 | 365.250 | -38.500  | .000 | 629. | 625 | 374.750 | -87.500  | .000 |
| 484.     | 480           | 265.250      | -73.500  | .000 | 557. | 553 | 365.250 | -40.000  | .000 | 630. | 626 | 374.750 | -89.500  | .000 |
| 485.     | 481           | 265.250      | -75.500  | .000 | 558. | 554 | 365.250 | -41.500  | .000 | 631. | 627 | 374.750 | -91.500  | .000 |
| 486.     | 482           | 265.250      | -77.500  | .000 | 559. | 555 | 365.250 | -43.000  | .000 | 632. | 628 | 374.750 | -93.500  | .000 |
| 487.     | 483           | 265.250      | -79.500  | .000 | 560. | 556 | 365.250 | -44.500  | .000 | 633. | 629 | 374.750 | -95.500  | .000 |

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

|           |               |              |                |
|-----------|---------------|--------------|----------------|
| Job No. : | Designed by : | Checked by : | Date : 1/21/00 |
|-----------|---------------|--------------|----------------|

|                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
| 634. 630 374.750 -97.500 .000  | 707. 703 474.750 -59.500 .000  | 780. 776 574.750 -29.500 .000  |
| 635. 631 374.750 -101.000 .000 | 708. 704 474.750 -61.500 .000  | 781. 777 574.750 -31.000 .000  |
| 636. 632 465.250 -1.000 .000   | 709. 705 474.750 -63.500 .000  | 782. 778 574.750 -32.500 .000  |
| 637. 633 465.250 -10.000 .000  | 710. 706 474.750 -65.500 .000  | 783. 779 574.750 -34.000 .000  |
| 638. 634 465.250 -25.000 .000  | 711. 707 474.750 -67.500 .000  | 784. 780 574.750 -35.500 .000  |
| 639. 635 465.250 -53.500 .000  | 712. 708 474.750 -69.500 .000  | 785. 781 574.750 -37.000 .000  |
| 640. 636 465.250 -26.500 .000  | 713. 709 474.750 -71.500 .000  | 786. 782 574.750 -38.500 .000  |
| 641. 637 465.250 -28.000 .000  | 714. 710 474.750 -73.500 .000  | 787. 783 574.750 -40.000 .000  |
| 642. 638 465.250 -29.500 .000  | 715. 711 474.750 -75.500 .000  | 788. 784 574.750 -41.500 .000  |
| 643. 639 465.250 -31.000 .000  | 716. 712 474.750 -77.500 .000  | 789. 785 574.750 -43.000 .000  |
| 644. 640 465.250 -32.500 .000  | 717. 713 474.750 -79.500 .000  | 790. 786 574.750 -44.500 .000  |
| 645. 641 465.250 -34.000 .000  | 718. 714 474.750 -81.500 .000  | 791. 787 574.750 -46.000 .000  |
| 646. 642 465.250 -35.500 .000  | 719. 715 474.750 -83.500 .000  | 792. 788 574.750 -47.500 .000  |
| 647. 643 465.250 -37.000 .000  | 720. 716 474.750 -85.500 .000  | 793. 789 574.750 -49.000 .000  |
| 648. 644 465.250 -38.500 .000  | 721. 717 474.750 -87.500 .000  | 794. 790 574.750 -50.500 .000  |
| 649. 645 465.250 -40.000 .000  | 722. 718 474.750 -89.500 .000  | 795. 791 574.750 -52.000 .000  |
| 650. 646 465.250 -41.500 .000  | 723. 719 474.750 -91.500 .000  | 796. 792 574.750 -53.500 .000  |
| 651. 647 465.250 -43.000 .000  | 724. 720 474.750 -93.500 .000  | 797. 793 574.750 -55.000 .000  |
| 652. 648 465.250 -44.500 .000  | 725. 721 474.750 -95.500 .000  | 798. 794 574.750 -57.500 .000  |
| 653. 649 465.250 -46.000 .000  | 726. 722 474.750 -97.500 .000  | 799. 795 574.750 -59.500 .000  |
| 654. 650 465.250 -47.500 .000  | 727. 723 474.750 -101.000 .000 | 800. 796 574.750 -61.500 .000  |
| 655. 651 465.250 -49.000 .000  | 728. 724 565.250 -1.000 .000   | 801. 797 574.750 -63.500 .000  |
| 656. 652 465.250 -50.500 .000  | 729. 725 565.250 -10.000 .000  | 802. 798 574.750 -65.500 .000  |
| 657. 653 465.250 -52.000 .000  | 730. 726 565.250 -25.000 .000  | 803. 799 574.750 -67.500 .000  |
| 658. 654 465.250 -99.500 .000  | 731. 727 565.250 -53.500 .000  | 804. 800 574.750 -69.500 .000  |
| 659. 655 465.250 -55.500 .000  | 732. 728 565.250 -26.500 .000  | 805. 801 574.750 -71.500 .000  |
| 660. 656 465.250 -57.500 .000  | 733. 729 565.250 -28.000 .000  | 806. 802 574.750 -73.500 .000  |
| 661. 657 465.250 -59.500 .000  | 734. 730 565.250 -29.500 .000  | 807. 803 574.750 -75.500 .000  |
| 662. 658 465.250 -61.500 .000  | 735. 731 565.250 -31.000 .000  | 808. 804 574.750 -77.500 .000  |
| 663. 659 465.250 -63.500 .000  | 736. 732 565.250 -32.500 .000  | 809. 805 574.750 -79.500 .000  |
| 664. 660 465.250 -65.500 .000  | 737. 733 565.250 -34.000 .000  | 810. 806 574.750 -81.500 .000  |
| 665. 661 465.250 -67.500 .000  | 738. 734 565.250 -35.500 .000  | 811. 807 574.750 -83.500 .000  |
| 666. 662 465.250 -69.500 .000  | 739. 735 565.250 -37.000 .000  | 812. 808 574.750 -85.500 .000  |
| 667. 663 465.250 -71.500 .000  | 740. 736 565.250 -38.500 .000  | 813. 809 574.750 -87.500 .000  |
| 668. 664 465.250 -73.500 .000  | 741. 737 565.250 -40.000 .000  | 814. 810 574.750 -89.500 .000  |
| 669. 665 465.250 -75.500 .000  | 742. 738 565.250 -41.500 .000  | 815. 811 574.750 -91.500 .000  |
| 670. 666 465.250 -77.500 .000  | 743. 739 565.250 -43.000 .000  | 816. 812 574.750 -93.500 .000  |
| 671. 667 465.250 -79.500 .000  | 744. 740 565.250 -44.500 .000  | 817. 813 574.750 -95.500 .000  |
| 672. 668 465.250 -81.500 .000  | 745. 741 565.250 -46.000 .000  | 818. 814 574.750 -97.500 .000  |
| 673. 669 465.250 -83.500 .000  | 746. 742 565.250 -47.500 .000  | 819. 815 574.750 -101.000 .000 |
| 674. 670 465.250 -85.500 .000  | 747. 743 565.250 -49.000 .000  | 820. MEMBER INCIDENCES         |
| 675. 671 465.250 -87.500 .000  | 748. 744 565.250 -50.500 .000  | 821. 1 1 2                     |
| 676. 672 465.250 -89.500 .000  | 749. 745 565.250 -52.000 .000  | 822. 2 2 3                     |
| 677. 673 465.250 -91.500 .000  | 750. 746 565.250 -99.500 .000  | 823. 3 3 4                     |
| 678. 674 465.250 -93.500 .000  | 751. 747 565.250 -55.500 .000  | 824. 4 4 5                     |
| 679. 675 465.250 -95.500 .000  | 752. 748 565.250 -57.500 .000  | 825. 5 5 6                     |
| 680. 676 465.250 -97.500 .000  | 753. 749 565.250 -59.500 .000  | 826. 6 6 7                     |
| 681. 677 465.250 -101.000 .000 | 754. 750 565.250 -61.500 .000  | 827. 7 7 8                     |
| 682. 678 474.750 -1.000 .000   | 755. 751 565.250 -63.500 .000  | 828. 8 8 9                     |
| 683. 679 474.750 -10.000 .000  | 756. 752 565.250 -65.500 .000  | 829. 9 9 10                    |
| 684. 680 474.750 -25.000 .000  | 757. 753 565.250 -67.500 .000  | 830. 10 10 11                  |
| 685. 681 474.750 -53.500 .000  | 758. 754 565.250 -69.500 .000  | 831. 11 11 12                  |
| 686. 682 474.750 -26.500 .000  | 759. 755 565.250 -71.500 .000  | 832. 12 12 13                  |
| 687. 683 474.750 -28.000 .000  | 760. 756 565.250 -73.500 .000  | 833. 13 13 14                  |
| 688. 684 474.750 -29.500 .000  | 761. 757 565.250 -75.500 .000  | 834. 14 14 15                  |
| 689. 685 474.750 -31.000 .000  | 762. 758 565.250 -77.500 .000  | 835. 15 15 16                  |
| 690. 686 474.750 -32.500 .000  | 763. 759 565.250 -79.500 .000  | 836. 16 16 17                  |
| 691. 687 474.750 -34.000 .000  | 764. 760 565.250 -81.500 .000  | 837. 17 17 18                  |
| 692. 688 474.750 -35.500 .000  | 765. 761 565.250 -83.500 .000  | 838. 18 18 19                  |
| 693. 689 474.750 -37.000 .000  | 766. 762 565.250 -85.500 .000  | 839. 19 19 20                  |
| 694. 690 474.750 -38.500 .000  | 767. 763 565.250 -87.500 .000  | 840. 20 20 21                  |
| 695. 691 474.750 -40.000 .000  | 768. 764 565.250 -89.500 .000  | 841. 21 21 22                  |
| 696. 692 474.750 -41.500 .000  | 769. 765 565.250 -91.500 .000  | 842. 22 22 23                  |
| 697. 693 474.750 -43.000 .000  | 770. 766 565.250 -93.500 .000  | 843. 23 23 24                  |
| 698. 694 474.750 -44.500 .000  | 771. 767 565.250 -95.500 .000  | 844. 24 24 25                  |
| 699. 695 474.750 -46.000 .000  | 772. 768 565.250 -97.500 .000  | 845. 25 25 26                  |
| 700. 696 474.750 -47.500 .000  | 773. 769 565.250 -101.000 .000 | 846. 26 26 27                  |
| 701. 697 474.750 -49.000 .000  | 774. 770 574.750 -1.000 .000   | 847. 27 27 28                  |
| 702. 698 474.750 -50.500 .000  | 775. 771 574.750 -10.000 .000  | 848. 28 28 29                  |
| 703. 699 474.750 -52.000 .000  | 776. 772 574.750 -25.000 .000  | 849. 29 29 30                  |
| 704. 700 474.750 -99.500 .000  | 777. 773 574.750 -53.500 .000  | 850. 30 30 31                  |
| 705. 701 474.750 -55.500 .000  | 778. 774 574.750 -26.500 .000  | 851. 31 31 32                  |
| 706. 702 474.750 -57.500 .000  | 779. 775 574.750 -28.000 .000  | 852. 32 32 33                  |

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

Job No.: \_\_\_\_\_ Designed by: \_\_\_\_\_ Checked by: \_\_\_\_\_ Date: 1/21/00

|      |     |     |     |      |     |     |     |       |     |     |     |
|------|-----|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|
| 853. | 33  | 33  | 34  | 926. | 106 | 106 | 107 | 999.  | 179 | 179 | 180 |
| 854. | 34  | 34  | 35  | 927. | 107 | 107 | 108 | 1000. | 180 | 180 | 181 |
| 855. | 35  | 35  | 36  | 928. | 108 | 108 | 109 | 1001. | 181 | 181 | 182 |
| 856. | 36  | 36  | 37  | 929. | 109 | 109 | 110 | 1002. | 182 | 182 | 183 |
| 857. | 37  | 37  | 38  | 930. | 110 | 110 | 111 | 1003. | 183 | 183 | 184 |
| 858. | 38  | 38  | 39  | 931. | 111 | 111 | 112 | 1004. | 184 | 184 | 185 |
| 859. | 39  | 39  | 40  | 932. | 112 | 112 | 113 | 1005. | 185 | 185 | 186 |
| 860. | 40  | 40  | 41  | 933. | 113 | 113 | 114 | 1006. | 186 | 186 | 187 |
| 861. | 41  | 41  | 42  | 934. | 114 | 114 | 115 | 1007. | 187 | 187 | 188 |
| 862. | 42  | 42  | 43  | 935. | 115 | 115 | 116 | 1008. | 188 | 188 | 189 |
| 863. | 43  | 43  | 44  | 936. | 116 | 116 | 117 | 1009. | 189 | 189 | 190 |
| 864. | 44  | 44  | 45  | 937. | 117 | 117 | 118 | 1010. | 190 | 190 | 191 |
| 865. | 45  | 45  | 46  | 938. | 118 | 118 | 119 | 1011. | 191 | 191 | 192 |
| 866. | 46  | 46  | 47  | 939. | 119 | 119 | 120 | 1012. | 192 | 192 | 193 |
| 867. | 47  | 47  | 48  | 940. | 120 | 120 | 121 | 1013. | 193 | 193 | 194 |
| 868. | 48  | 48  | 49  | 941. | 121 | 121 | 122 | 1014. | 194 | 194 | 195 |
| 869. | 49  | 49  | 50  | 942. | 122 | 122 | 123 | 1015. | 195 | 195 | 196 |
| 870. | 50  | 50  | 51  | 943. | 123 | 123 | 124 | 1016. | 196 | 196 | 197 |
| 871. | 51  | 51  | 52  | 944. | 124 | 124 | 125 | 1017. | 197 | 197 | 198 |
| 872. | 52  | 52  | 53  | 945. | 125 | 125 | 126 | 1018. | 198 | 198 | 199 |
| 873. | 53  | 53  | 54  | 946. | 126 | 126 | 127 | 1019. | 199 | 199 | 200 |
| 874. | 54  | 54  | 55  | 947. | 127 | 127 | 128 | 1020. | 200 | 200 | 201 |
| 875. | 55  | 55  | 56  | 948. | 128 | 128 | 129 | 1021. | 201 | 201 | 202 |
| 876. | 56  | 56  | 57  | 949. | 129 | 129 | 130 | 1022. | 202 | 202 | 203 |
| 877. | 57  | 57  | 58  | 950. | 130 | 130 | 131 | 1023. | 203 | 22  | 204 |
| 878. | 58  | 58  | 59  | 951. | 131 | 131 | 132 | 1024. | 204 | 204 | 205 |
| 879. | 59  | 59  | 60  | 952. | 132 | 132 | 133 | 1025. | 205 | 205 | 206 |
| 880. | 60  | 60  | 61  | 953. | 133 | 133 | 134 | 1026. | 206 | 206 | 207 |
| 881. | 61  | 61  | 62  | 954. | 134 | 134 | 135 | 1027. | 207 | 207 | 208 |
| 882. | 62  | 62  | 63  | 955. | 135 | 135 | 136 | 1028. | 208 | 208 | 209 |
| 883. | 63  | 63  | 64  | 956. | 136 | 136 | 137 | 1029. | 209 | 54  | 210 |
| 884. | 64  | 64  | 65  | 957. | 137 | 137 | 138 | 1030. | 210 | 210 | 211 |
| 885. | 65  | 65  | 66  | 958. | 138 | 138 | 139 | 1031. | 211 | 211 | 212 |
| 886. | 66  | 66  | 67  | 959. | 139 | 139 | 140 | 1032. | 212 | 212 | 213 |
| 887. | 67  | 67  | 68  | 960. | 140 | 140 | 141 | 1033. | 213 | 213 | 214 |
| 888. | 68  | 68  | 69  | 961. | 141 | 141 | 142 | 1034. | 214 | 214 | 215 |
| 889. | 69  | 69  | 70  | 962. | 142 | 142 | 143 | 1035. | 215 | 86  | 216 |
| 890. | 70  | 70  | 71  | 963. | 143 | 143 | 144 | 1036. | 216 | 216 | 217 |
| 891. | 71  | 71  | 72  | 964. | 144 | 144 | 145 | 1037. | 217 | 217 | 218 |
| 892. | 72  | 72  | 73  | 965. | 145 | 145 | 146 | 1038. | 218 | 218 | 219 |
| 893. | 73  | 73  | 74  | 966. | 146 | 146 | 147 | 1039. | 219 | 219 | 220 |
| 894. | 74  | 74  | 75  | 967. | 147 | 147 | 148 | 1040. | 220 | 220 | 221 |
| 895. | 75  | 75  | 76  | 968. | 148 | 148 | 149 | 1041. | 221 | 118 | 222 |
| 896. | 76  | 76  | 77  | 969. | 149 | 149 | 150 | 1042. | 222 | 222 | 223 |
| 897. | 77  | 77  | 78  | 970. | 150 | 150 | 151 | 1043. | 223 | 223 | 224 |
| 898. | 78  | 78  | 79  | 971. | 151 | 151 | 152 | 1044. | 224 | 224 | 225 |
| 899. | 79  | 79  | 80  | 972. | 152 | 152 | 153 | 1045. | 225 | 225 | 226 |
| 900. | 80  | 80  | 81  | 973. | 153 | 153 | 154 | 1046. | 226 | 226 | 227 |
| 901. | 81  | 81  | 82  | 974. | 154 | 154 | 155 | 1047. | 227 | 150 | 228 |
| 902. | 82  | 82  | 83  | 975. | 155 | 155 | 156 | 1048. | 228 | 228 | 229 |
| 903. | 83  | 83  | 84  | 976. | 156 | 156 | 157 | 1049. | 229 | 229 | 230 |
| 904. | 84  | 84  | 85  | 977. | 157 | 157 | 158 | 1050. | 230 | 230 | 231 |
| 905. | 85  | 85  | 86  | 978. | 158 | 158 | 159 | 1051. | 231 | 231 | 232 |
| 906. | 86  | 86  | 87  | 979. | 159 | 159 | 160 | 1052. | 232 | 232 | 233 |
| 907. | 87  | 87  | 88  | 980. | 160 | 160 | 161 | 1053. | 233 | 182 | 234 |
| 908. | 88  | 88  | 89  | 981. | 161 | 161 | 162 | 1054. | 234 | 234 | 235 |
| 909. | 89  | 89  | 90  | 982. | 162 | 162 | 163 | 1055. | 235 | 235 | 236 |
| 910. | 90  | 90  | 91  | 983. | 163 | 163 | 164 | 1056. | 236 | 236 | 237 |
| 911. | 91  | 91  | 92  | 984. | 164 | 164 | 165 | 1057. | 237 | 237 | 238 |
| 912. | 92  | 92  | 93  | 985. | 165 | 165 | 166 | 1058. | 238 | 238 | 239 |
| 913. | 93  | 93  | 94  | 986. | 166 | 166 | 167 | 1059. | 239 | 209 | 240 |
| 914. | 94  | 94  | 95  | 987. | 167 | 167 | 168 | 1060. | 240 | 240 | 241 |
| 915. | 95  | 95  | 96  | 988. | 168 | 168 | 169 | 1061. | 241 | 209 | 242 |
| 916. | 96  | 96  | 97  | 989. | 169 | 169 | 170 | 1062. | 242 | 242 | 243 |
| 917. | 97  | 97  | 98  | 990. | 170 | 170 | 171 | 1063. | 243 | 215 | 244 |
| 918. | 98  | 98  | 99  | 991. | 171 | 171 | 172 | 1064. | 244 | 244 | 245 |
| 919. | 99  | 99  | 100 | 992. | 172 | 172 | 173 | 1065. | 245 | 215 | 246 |
| 920. | 100 | 100 | 101 | 993. | 173 | 173 | 174 | 1066. | 246 | 246 | 247 |
| 921. | 101 | 101 | 102 | 994. | 174 | 174 | 175 | 1067. | 247 | 221 | 248 |
| 922. | 102 | 102 | 103 | 995. | 175 | 175 | 176 | 1068. | 248 | 248 | 249 |
| 923. | 103 | 103 | 104 | 996. | 176 | 176 | 177 | 1069. | 249 | 221 | 250 |
| 924. | 104 | 104 | 105 | 997. | 177 | 177 | 178 | 1070. | 250 | 250 | 251 |
| 925. | 105 | 105 | 106 | 998. | 178 | 178 | 179 | 1071. | 251 | 227 | 252 |

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

|           |               |              |                |
|-----------|---------------|--------------|----------------|
| Job No. : | Designed by : | Checked by : | Date : 1/21/00 |
|-----------|---------------|--------------|----------------|

|       |     |     |     |       |     |     |     |       |     |     |     |
|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|
| 1072. | 252 | 252 | 253 | 1145. | 325 | 326 | 327 | 1218. | 398 | 399 | 400 |
| 1073. | 253 | 227 | 254 | 1146. | 326 | 327 | 328 | 1219. | 399 | 400 | 378 |
| 1074. | 254 | 254 | 255 | 1147. | 327 | 328 | 329 | 1220. | 400 | 378 | 401 |
| 1075. | 255 | 233 | 256 | 1148. | 328 | 329 | 330 | 1221. | 401 | 246 | 402 |
| 1076. | 256 | 256 | 257 | 1149. | 329 | 330 | 331 | 1222. | 402 | 402 | 403 |
| 1077. | 257 | 233 | 258 | 1150. | 330 | 331 | 313 | 1223. | 403 | 403 | 404 |
| 1078. | 258 | 258 | 259 | 1151. | 331 | 313 | 333 | 1224. | 404 | 404 | 406 |
| 1079. | 259 | 239 | 260 | 1152. | 332 | 333 | 334 | 1225. | 405 | 406 | 407 |
| 1080. | 260 | 260 | 261 | 1153. | 333 | 334 | 335 | 1226. | 406 | 407 | 408 |
| 1081. | 261 | 239 | 262 | 1154. | 334 | 335 | 336 | 1227. | 407 | 408 | 409 |
| 1082. | 262 | 262 | 263 | 1155. | 335 | 336 | 337 | 1228. | 408 | 409 | 410 |
| 1083. | 263 | 240 | 264 | 1156. | 336 | 337 | 338 | 1229. | 409 | 410 | 411 |
| 1084. | 264 | 264 | 265 | 1157. | 337 | 338 | 339 | 1230. | 410 | 411 | 412 |
| 1085. | 265 | 265 | 266 | 1158. | 338 | 339 | 340 | 1231. | 411 | 412 | 413 |
| 1086. | 266 | 266 | 267 | 1159. | 339 | 340 | 341 | 1232. | 412 | 413 | 414 |
| 1087. | 267 | 267 | 268 | 1160. | 340 | 341 | 342 | 1233. | 413 | 414 | 415 |
| 1088. | 268 | 268 | 269 | 1161. | 341 | 342 | 343 | 1234. | 414 | 415 | 416 |
| 1089. | 269 | 269 | 270 | 1162. | 342 | 343 | 344 | 1235. | 415 | 416 | 417 |
| 1090. | 270 | 270 | 271 | 1163. | 343 | 344 | 345 | 1236. | 416 | 417 | 418 |
| 1091. | 271 | 271 | 272 | 1164. | 344 | 345 | 346 | 1237. | 417 | 418 | 419 |
| 1092. | 272 | 272 | 273 | 1165. | 345 | 346 | 347 | 1238. | 418 | 419 | 420 |
| 1093. | 273 | 273 | 274 | 1166. | 346 | 347 | 348 | 1239. | 419 | 420 | 421 |
| 1094. | 274 | 274 | 275 | 1167. | 347 | 348 | 349 | 1240. | 420 | 421 | 422 |
| 1095. | 275 | 275 | 276 | 1168. | 348 | 349 | 350 | 1241. | 421 | 422 | 423 |
| 1096. | 276 | 276 | 277 | 1169. | 349 | 350 | 351 | 1242. | 422 | 423 | 405 |
| 1097. | 277 | 277 | 278 | 1170. | 350 | 351 | 352 | 1243. | 423 | 405 | 425 |
| 1098. | 278 | 278 | 279 | 1171. | 351 | 352 | 353 | 1244. | 424 | 425 | 426 |
| 1099. | 279 | 279 | 280 | 1172. | 352 | 353 | 354 | 1245. | 425 | 426 | 427 |
| 1100. | 280 | 280 | 281 | 1173. | 353 | 354 | 332 | 1246. | 426 | 427 | 428 |
| 1101. | 281 | 281 | 282 | 1174. | 354 | 332 | 355 | 1247. | 427 | 428 | 429 |
| 1102. | 282 | 282 | 283 | 1175. | 355 | 244 | 356 | 1248. | 428 | 429 | 430 |
| 1103. | 283 | 283 | 284 | 1176. | 356 | 356 | 357 | 1249. | 429 | 430 | 431 |
| 1104. | 284 | 284 | 285 | 1177. | 357 | 357 | 358 | 1250. | 430 | 431 | 432 |
| 1105. | 285 | 285 | 286 | 1178. | 358 | 358 | 360 | 1251. | 431 | 432 | 433 |
| 1106. | 286 | 286 | 287 | 1179. | 359 | 360 | 361 | 1252. | 432 | 433 | 434 |
| 1107. | 287 | 287 | 288 | 1180. | 360 | 361 | 362 | 1253. | 433 | 434 | 435 |
| 1108. | 288 | 288 | 289 | 1181. | 361 | 362 | 363 | 1254. | 434 | 435 | 436 |
| 1109. | 289 | 289 | 290 | 1182. | 362 | 363 | 364 | 1255. | 435 | 436 | 437 |
| 1110. | 290 | 290 | 291 | 1183. | 363 | 364 | 365 | 1256. | 436 | 437 | 438 |
| 1111. | 291 | 291 | 292 | 1184. | 364 | 365 | 366 | 1257. | 437 | 438 | 439 |
| 1112. | 292 | 292 | 293 | 1185. | 365 | 366 | 367 | 1258. | 438 | 439 | 440 |
| 1113. | 293 | 293 | 294 | 1186. | 366 | 367 | 368 | 1259. | 439 | 440 | 441 |
| 1114. | 294 | 294 | 295 | 1187. | 367 | 368 | 369 | 1260. | 440 | 441 | 442 |
| 1115. | 295 | 295 | 296 | 1188. | 368 | 369 | 370 | 1261. | 441 | 442 | 443 |
| 1116. | 296 | 296 | 297 | 1189. | 369 | 370 | 371 | 1262. | 442 | 443 | 444 |
| 1117. | 297 | 297 | 298 | 1190. | 370 | 371 | 372 | 1263. | 443 | 444 | 445 |
| 1118. | 298 | 298 | 299 | 1191. | 371 | 372 | 373 | 1264. | 444 | 445 | 446 |
| 1119. | 299 | 299 | 300 | 1192. | 372 | 373 | 374 | 1265. | 445 | 446 | 424 |
| 1120. | 300 | 300 | 301 | 1193. | 373 | 374 | 375 | 1266. | 446 | 424 | 447 |
| 1121. | 301 | 301 | 302 | 1194. | 374 | 375 | 376 | 1267. | 447 | 248 | 448 |
| 1122. | 302 | 302 | 303 | 1195. | 375 | 376 | 377 | 1268. | 448 | 448 | 449 |
| 1123. | 303 | 303 | 304 | 1196. | 376 | 377 | 359 | 1269. | 449 | 449 | 450 |
| 1124. | 304 | 304 | 305 | 1197. | 377 | 359 | 379 | 1270. | 450 | 450 | 452 |
| 1125. | 305 | 305 | 306 | 1198. | 378 | 379 | 380 | 1271. | 451 | 452 | 453 |
| 1126. | 306 | 306 | 307 | 1199. | 379 | 380 | 381 | 1272. | 452 | 453 | 454 |
| 1127. | 307 | 307 | 308 | 1200. | 380 | 381 | 382 | 1273. | 453 | 454 | 455 |
| 1128. | 308 | 308 | 309 | 1201. | 381 | 382 | 383 | 1274. | 454 | 455 | 456 |
| 1129. | 309 | 242 | 310 | 1202. | 382 | 383 | 384 | 1275. | 455 | 456 | 457 |
| 1130. | 310 | 310 | 311 | 1203. | 383 | 384 | 385 | 1276. | 456 | 457 | 458 |
| 1131. | 311 | 311 | 312 | 1204. | 384 | 385 | 386 | 1277. | 457 | 458 | 459 |
| 1132. | 312 | 312 | 314 | 1205. | 385 | 386 | 387 | 1278. | 458 | 459 | 460 |
| 1133. | 313 | 314 | 315 | 1206. | 386 | 387 | 388 | 1279. | 459 | 460 | 461 |
| 1134. | 314 | 315 | 316 | 1207. | 387 | 388 | 389 | 1280. | 460 | 461 | 462 |
| 1135. | 315 | 316 | 317 | 1208. | 388 | 389 | 390 | 1281. | 461 | 462 | 463 |
| 1136. | 316 | 317 | 318 | 1209. | 389 | 390 | 391 | 1282. | 462 | 463 | 464 |
| 1137. | 317 | 318 | 319 | 1210. | 390 | 391 | 392 | 1283. | 463 | 464 | 465 |
| 1138. | 318 | 319 | 320 | 1211. | 391 | 392 | 393 | 1284. | 464 | 465 | 466 |
| 1139. | 319 | 320 | 321 | 1212. | 392 | 393 | 394 | 1285. | 465 | 466 | 467 |
| 1140. | 320 | 321 | 322 | 1213. | 393 | 394 | 395 | 1286. | 466 | 467 | 468 |
| 1141. | 321 | 322 | 323 | 1214. | 394 | 395 | 396 | 1287. | 467 | 468 | 469 |
| 1142. | 322 | 323 | 324 | 1215. | 395 | 396 | 397 | 1288. | 468 | 469 | 451 |
| 1143. | 323 | 324 | 325 | 1216. | 396 | 397 | 398 | 1289. | 469 | 451 | 471 |
| 1144. | 324 | 325 | 326 | 1217. | 397 | 398 | 399 | 1290. | 470 | 471 | 472 |

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

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 1/21/00

|       |     |     |     |       |     |     |     |       |     |     |     |
|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|
| 1291. | 471 | 472 | 473 | 1364. | 544 | 545 | 546 | 1437. | 617 | 618 | 619 |
| 1292. | 472 | 473 | 474 | 1365. | 545 | 546 | 547 | 1438. | 618 | 619 | 620 |
| 1293. | 473 | 474 | 475 | 1366. | 546 | 547 | 548 | 1439. | 619 | 620 | 621 |
| 1294. | 474 | 475 | 476 | 1367. | 547 | 548 | 549 | 1440. | 620 | 621 | 622 |
| 1295. | 475 | 476 | 477 | 1368. | 548 | 549 | 550 | 1441. | 621 | 622 | 623 |
| 1296. | 476 | 477 | 478 | 1369. | 549 | 550 | 551 | 1442. | 622 | 623 | 624 |
| 1297. | 477 | 478 | 479 | 1370. | 550 | 551 | 552 | 1443. | 623 | 624 | 625 |
| 1298. | 478 | 479 | 480 | 1371. | 551 | 552 | 553 | 1444. | 624 | 625 | 626 |
| 1299. | 479 | 480 | 481 | 1372. | 552 | 553 | 554 | 1445. | 625 | 626 | 627 |
| 1300. | 480 | 481 | 482 | 1373. | 553 | 554 | 555 | 1446. | 626 | 627 | 628 |
| 1301. | 481 | 482 | 483 | 1374. | 554 | 555 | 556 | 1447. | 627 | 628 | 629 |
| 1302. | 482 | 483 | 484 | 1375. | 555 | 556 | 557 | 1448. | 628 | 629 | 630 |
| 1303. | 483 | 484 | 485 | 1376. | 556 | 557 | 558 | 1449. | 629 | 630 | 631 |
| 1304. | 484 | 485 | 486 | 1377. | 557 | 558 | 559 | 1450. | 630 | 631 | 632 |
| 1305. | 485 | 486 | 487 | 1378. | 558 | 559 | 560 | 1451. | 631 | 632 | 633 |
| 1306. | 486 | 487 | 488 | 1379. | 559 | 560 | 561 | 1452. | 632 | 633 | 634 |
| 1307. | 487 | 488 | 489 | 1380. | 560 | 561 | 562 | 1453. | 633 | 634 | 635 |
| 1308. | 488 | 489 | 490 | 1381. | 561 | 562 | 563 | 1454. | 634 | 635 | 636 |
| 1309. | 489 | 490 | 491 | 1382. | 562 | 563 | 564 | 1455. | 635 | 636 | 637 |
| 1310. | 490 | 491 | 492 | 1383. | 563 | 564 | 565 | 1456. | 636 | 637 | 638 |
| 1311. | 491 | 492 | 493 | 1384. | 564 | 565 | 566 | 1457. | 637 | 638 | 639 |
| 1312. | 492 | 493 | 494 | 1385. | 565 | 566 | 567 | 1458. | 638 | 639 | 640 |
| 1313. | 493 | 494 | 495 | 1386. | 566 | 567 | 568 | 1459. | 639 | 640 | 641 |
| 1314. | 494 | 495 | 496 | 1387. | 567 | 568 | 569 | 1460. | 640 | 641 | 642 |
| 1315. | 495 | 496 | 497 | 1388. | 568 | 569 | 570 | 1461. | 641 | 642 | 643 |
| 1316. | 496 | 497 | 498 | 1389. | 569 | 570 | 571 | 1462. | 642 | 643 | 644 |
| 1317. | 497 | 498 | 499 | 1390. | 570 | 571 | 572 | 1463. | 643 | 644 | 645 |
| 1318. | 498 | 499 | 500 | 1391. | 571 | 572 | 573 | 1464. | 644 | 645 | 646 |
| 1319. | 499 | 500 | 501 | 1392. | 572 | 573 | 574 | 1465. | 645 | 646 | 647 |
| 1320. | 500 | 501 | 502 | 1393. | 573 | 574 | 575 | 1466. | 646 | 647 | 648 |
| 1321. | 501 | 502 | 503 | 1394. | 574 | 575 | 576 | 1467. | 647 | 648 | 649 |
| 1322. | 502 | 503 | 504 | 1395. | 575 | 576 | 577 | 1468. | 648 | 649 | 650 |
| 1323. | 503 | 504 | 505 | 1396. | 576 | 577 | 578 | 1469. | 649 | 650 | 651 |
| 1324. | 504 | 505 | 506 | 1397. | 577 | 578 | 579 | 1470. | 650 | 651 | 652 |
| 1325. | 505 | 506 | 507 | 1398. | 578 | 579 | 580 | 1471. | 651 | 652 | 653 |
| 1326. | 506 | 507 | 508 | 1399. | 579 | 580 | 581 | 1472. | 652 | 653 | 654 |
| 1327. | 507 | 508 | 509 | 1400. | 580 | 581 | 582 | 1473. | 653 | 654 | 655 |
| 1328. | 508 | 509 | 510 | 1401. | 581 | 582 | 583 | 1474. | 654 | 655 | 656 |
| 1329. | 509 | 510 | 511 | 1402. | 582 | 583 | 584 | 1475. | 655 | 656 | 657 |
| 1330. | 510 | 511 | 512 | 1403. | 583 | 584 | 585 | 1476. | 656 | 657 | 658 |
| 1331. | 511 | 512 | 513 | 1404. | 584 | 585 | 586 | 1477. | 657 | 658 | 659 |
| 1332. | 512 | 513 | 514 | 1405. | 585 | 586 | 587 | 1478. | 658 | 659 | 660 |
| 1333. | 513 | 514 | 515 | 1406. | 586 | 587 | 588 | 1479. | 659 | 660 | 661 |
| 1334. | 514 | 515 | 497 | 1407. | 587 | 588 | 589 | 1480. | 660 | 661 | 662 |
| 1335. | 515 | 497 | 517 | 1408. | 588 | 589 | 590 | 1481. | 661 | 662 | 663 |
| 1336. | 516 | 517 | 518 | 1409. | 589 | 590 | 591 | 1482. | 662 | 663 | 664 |
| 1337. | 517 | 518 | 519 | 1410. | 590 | 591 | 592 | 1483. | 663 | 664 | 665 |
| 1338. | 518 | 519 | 520 | 1411. | 591 | 592 | 593 | 1484. | 664 | 665 | 666 |
| 1339. | 519 | 520 | 521 | 1412. | 592 | 593 | 594 | 1485. | 665 | 666 | 667 |
| 1340. | 520 | 521 | 522 | 1413. | 593 | 594 | 595 | 1486. | 666 | 667 | 668 |
| 1341. | 521 | 522 | 523 | 1414. | 594 | 595 | 596 | 1487. | 667 | 668 | 669 |
| 1342. | 522 | 523 | 524 | 1415. | 595 | 596 | 597 | 1488. | 668 | 669 | 670 |
| 1343. | 523 | 524 | 525 | 1416. | 596 | 597 | 598 | 1489. | 669 | 670 | 671 |
| 1344. | 524 | 525 | 526 | 1417. | 597 | 598 | 599 | 1490. | 670 | 671 | 672 |
| 1345. | 525 | 526 | 527 | 1418. | 598 | 599 | 600 | 1491. | 671 | 672 | 673 |
| 1346. | 526 | 527 | 528 | 1419. | 599 | 600 | 601 | 1492. | 672 | 673 | 674 |
| 1347. | 527 | 528 | 529 | 1420. | 600 | 601 | 602 | 1493. | 673 | 674 | 675 |
| 1348. | 528 | 529 | 530 | 1421. | 601 | 602 | 603 | 1494. | 674 | 675 | 676 |
| 1349. | 529 | 530 | 531 | 1422. | 602 | 603 | 604 | 1495. | 675 | 676 | 677 |
| 1350. | 530 | 531 | 532 | 1423. | 603 | 604 | 605 | 1496. | 676 | 677 | 678 |
| 1351. | 531 | 532 | 533 | 1424. | 604 | 605 | 606 | 1497. | 677 | 678 | 679 |
| 1352. | 532 | 533 | 534 | 1425. | 605 | 606 | 607 | 1498. | 678 | 679 | 680 |
| 1353. | 533 | 534 | 535 | 1426. | 606 | 607 | 608 | 1499. | 679 | 680 | 681 |
| 1354. | 534 | 535 | 536 | 1427. | 607 | 608 | 609 | 1500. | 680 | 681 | 682 |
| 1355. | 535 | 536 | 537 | 1428. | 608 | 609 | 610 | 1501. | 681 | 682 | 683 |
| 1356. | 536 | 537 | 538 | 1429. | 609 | 610 | 611 | 1502. | 682 | 683 | 684 |
| 1357. | 537 | 538 | 539 | 1430. | 610 | 611 | 612 | 1503. | 683 | 684 | 685 |
| 1358. | 538 | 539 | 540 | 1431. | 611 | 612 | 613 | 1504. | 684 | 685 | 686 |
| 1359. | 539 | 540 | 541 | 1432. | 612 | 613 | 614 | 1505. | 685 | 686 | 687 |
| 1360. | 540 | 541 | 542 | 1433. | 613 | 614 | 615 | 1506. | 686 | 687 | 688 |
| 1361. | 541 | 542 | 543 | 1434. | 614 | 615 | 616 | 1507. | 687 | 688 | 689 |
| 1362. | 542 | 543 | 544 | 1435. | 615 | 616 | 617 | 1508. | 688 | 689 | 690 |
| 1363. | 543 | 544 | 545 | 1436. | 616 | 617 | 618 | 1509. | 689 | 690 | 691 |

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

Job No. : \_\_\_\_\_ Designed by : \_\_\_\_\_ Checked by : \_\_\_\_\_ Date : 1/21/00

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1589. 769 262 770  
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1633. 813 814 792  
1634. 814 792 815

1635. MEMBER PROPERTY AMERICAN

1636. 1 TO 12 31 TO 44 63 TO 76 95 TO 108 127 TO 140 159 TO 172 191 TO 201 -  
1637. 202 PRI AX 11.661 IX 227.335 IY 211.669 IZ 15.686 YD 3.12  
1638. 13 30 45 62 77 94 109 126 141 158 173 -  
1639. 190 PRI AX 11.976 IX 232.635 IY 214.3 IZ 18.344 YD 3.45  
1640. 14 29 46 61 78 93 110 125 142 157 174 -  
1641. 189 PRI AX 12.595 IX 243.458 IY 219.291 IZ 24.092 YD 3.79  
1642. 15 28 47 60 79 92 111 124 143 156 175 -  
1643. 188 PRI AX 13.192 IX 254.458 IY 223.749 IZ 30.71 YD 4.13  
1644. 16 27 48 59 80 91 112 123 144 155 176 -  
1645. 187 PRI AX 13.767 IX 265.913 IY 227.707 IZ 38.206 YD 4.46  
1646. 17 26 49 58 81 90 113 122 145 154 177 -  
1647. 186 PRI AX 14.319 IX 277.778 IY 231.196 IZ 46.582 YD 4.8  
1648. 18 25 50 57 82 89 114 121 146 153 178 -  
1649. 185 PRI AX 14.849 IX 290.081 IY 234.246 IZ 55.835 YD 5.13  
1650. 19 24 51 56 83 88 115 120 147 152 179 -  
1651. 184 PRI AX 15.357 IX 302.84 IY 236.885 IZ 65.955 YD 5.47  
1652. 20 23 52 55 84 87 116 119 148 151 180 -  
1653. 183 PRI AX 15.919 IX 318.365 IY 239.447 IZ 78.918 YD 5.92  
1654. 21 22 53 54 85 86 117 118 149 150 181 -  
1655. 182 PRI AX 16.232 IX 327.395 IY 240.789 IZ 86.606 YD 5.92

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

|          |               |              |                |
|----------|---------------|--------------|----------------|
| ob No. : | Designed by : | Checked by : | Date : 1/21/00 |
|----------|---------------|--------------|----------------|

1656. 203 204 207 TO 210 213 TO 216 219 TO 222 225 TO 228 231 TO 234 237 -  
 1657. 238 PRI AX 16.5 IX 92.71 IY 29.69 IZ 63.02  
 1658. 205 206 211 212 217 218 223 224 229 230 235 -  
 1659. 236 PRI AX 14.5 IX 72.7 IY 24.02 IZ 48.68  
 1660. 239 TO 814 PRJ AX 14.73 IX 11.505 IY 5.752 IZ 5.752  
 1661. CONSTANT  
 1662. E 2.500E7 ALL  
 1663. POISSON CONCRETE ALL  
 1664. ALPHA .0000108 MEMB 1 TO 202  
 1665. DENSITY 24. MEMB 1 TO 262  
 1666. DENSITY 14.2 MEMB 239 TO 814  
 1667. SUPPORT  
 1668. 1 203 FIXED BUT FX MX MY MZ  
 1669. 266 312 358 404 450 496 542 588 634 680 726 -  
 1670. 772 FIXED BUT FY MX MY MZ KFX 4.370E4 KFZ 4.370E4  
 1671. 267 TO 270 314 TO 317 360 TO 363 406 TO 409 452 TO 455 498 TO 501 -  
 1672. 544 TO 547 590 TO 593 636 TO 639 682 TO 685 728 TO 731 774 TO 776 -  
 1673. 777 FIXED BUT FY MX MY MZ KFX 8.750E4 KFZ 8.750E4  
 1674. 271 318 364 410 456 502 548 594 640 686 732 -  
 1675. 778 FIXED BUT FY MX MY MZ KFX 112840. KFZ 112840.  
 1676. 272 273 319 320 365 366 411 412 457 458 503 504 549 550 595 596 641 -  
 1677. 642 687 688 733 734 779 -  
 1678. 780 FIXED BUT FY MX MY MZ KFX 3.030E5 KFZ 3.030E5  
 1679. 274 TO 281 321 TO 328 367 TO 374 413 TO 420 459 TO 466 505 TO 512 -  
 1680. 551 TO 558 597 TO 604 643 TO 650 689 TO 696 735 TO 742 781 TO 787 -  
 1681. 788 FIXED BUT FY MX MY MZ KFX 3.930E5 KFZ 3.930E5  
 1682. 282 283 329 330 375 376 421 422 467 468 513 514 559 560 605 606 651 -  
 1683. 652 697 698 743 744 789 -  
 1684. 790 FIXED BUT FY MX MY MZ KFX 5.237E5 KFZ 5.237E5  
 1685. 284 TO 288 313 331 333 TO 335 359 377 379 TO 381 405 423 425 TO 427 -  
 1686. 451 469 471 TO 473 497 515 517 TO 519 543 561 563 TO 565 589 607 -  
 1687. 609 TO 611 635 653 655 TO 657 681 699 701 TO 703 727 745 747 TO 749 -  
 1688. 773 791 793 TO 795 FIXED BUT FY MX MY MZ KFX 1.560E6 KFZ 1.560E6  
 1689. 289 TO 308 332 336 TO 354 378 382 TO 400 424 428 TO 446 470 -  
 1690. 474 TO 492 516 520 TO 538 562 566 TO 584 608 612 TO 630 654 -  
 1691. 658 TO 676 700 704 TO 722 746 750 TO 768 792 796 TO 813 -  
 1692. 814 FIXED BUT FY MX MY MZ KFX 1.426E6 KFZ 1.426E6  
 1693. 309 355 401 447 493 539 585 631 677 723 769 815 FIXED

**DEAD LOAD ANALYSIS  
OF FRAME 5 (WHOLE STRUCTURE)**

# THE UNIVERSITY OF CHICAGO

## PH.D. THESIS

BY

DAVID J. GALE

IN

THE FIELD OF

PHILOSOPHY

THE THESIS IS APPROVED BY THE FACULTY OF THE DIVISION OF THE PHYSICAL SCIENCES

ON THE RECOMMENDATION OF THE

DEPARTMENT OF PHILOSOPHY

IN THE MONTH OF

MAY 1968

AT CHICAGO, ILLINOIS

BY THE FACULTY OF THE DIVISION OF THE PHYSICAL SCIENCES

AND THE FACULTY OF THE DIVISION OF THE SOCIAL SCIENCES

AND THE FACULTY OF THE DIVISION OF THE ARTS

AND THE FACULTY OF THE DIVISION OF THE PHYSICAL SCIENCES

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AND THE FACULTY OF THE DIVISION OF THE PHYSICAL SCIENCES

**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 |
|-----------|---------------|--------------|--------|------------------|

**DEAD LOAD ANALYSIS**

| MEMB | LOAD | NODE | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|------|------|------|-------|---------|---------|---------|-------|-------|
|------|------|------|-------|---------|---------|---------|-------|-------|

**LOADS**

**Load 1     Weight of the Closure at Span 4**

Member Load

101 102    UNI   GY   -272.867

**Load 2     Selfweight of the Structure**

SELFWEIGHT   Y   -1

**Load 3     Superimposed Dead Load**

1 TO 202    UNI   GY   -70.29

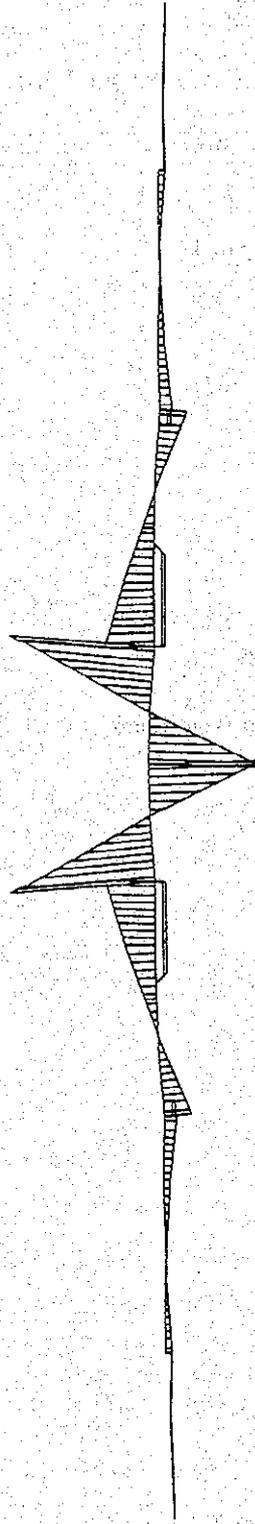
**Load 4     Selfweight + Superimposed Dead Load**

SELFWEIGHT   Y   -1

1 TO 202    UNI   GY   -70.29

MN/ELEM  
MOMENT MZ LNE= 1

STRUCTURE DATA  
 TYPE = SPACE  
 NJ = 815  
 NM = 814  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = 640.0  
 YMAX = 127.4  
 ZMAX = .0



DUE TO CLOSURE  
SELF WT.

Maximum= 14767.10  
 J=815, M=814

UNIT MET KNS

DATE: JAN 20, 2000

S T A A D P O S T - P L O T (REV: 22.3)

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT MZ LNE= 2

STRUCTURE DATA

TYPE = SPACE

NJ = 815

NM = 814

NE = 0

NS = 0

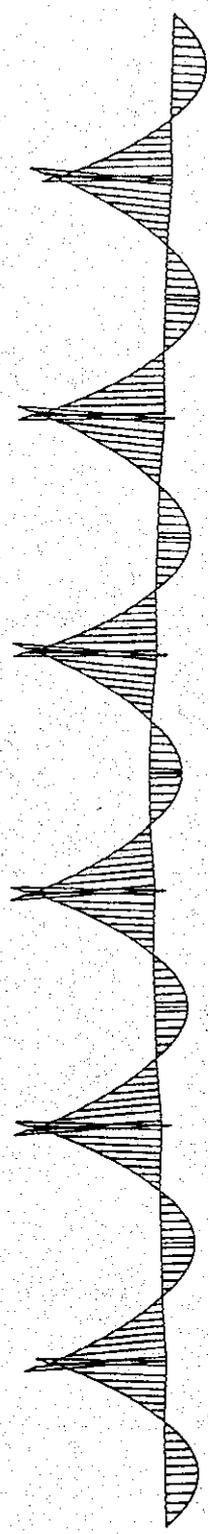
NRJ = 530

NL = 4

XMAX = 640.0

YMAX = 127.4

ZMAX = .0



DUE TO SELFWT OF  
STRUCTURE

Maximum= 300320.10  
J=815, M=814

UNIT MET KNS

S T A A D P O S T - P L O T (REV: 22.3 )

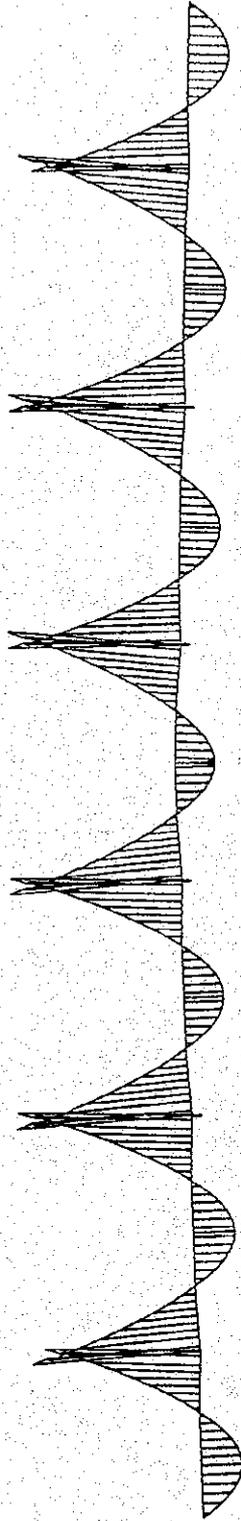
DATE: JAN 20, 2000

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT MZ LN= 3

STRUCTURE DATA

TYPE = SPACE  
 NJ = 015  
 NM = 014  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = 640.0  
 YMAX = 127.4  
 ZMAX = .0



DL E TO SUPERIMPOSED DL

Maximum= 71622.52  
J=015,M=014

UNIT MET KNS

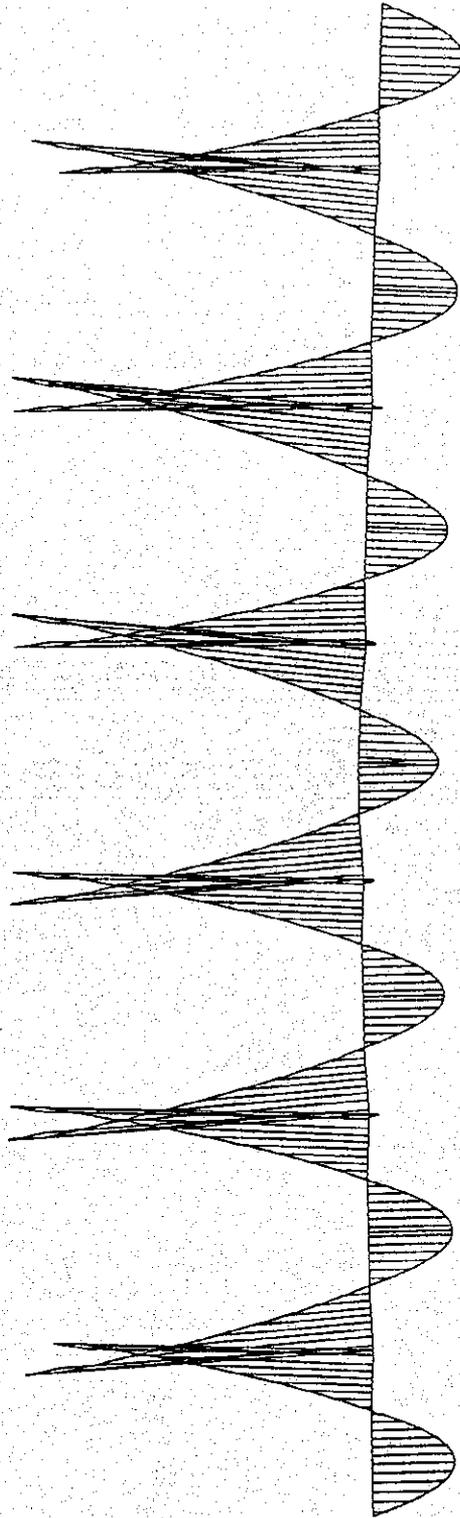
ST A A D P O S T - P L O T (REV: 22.3 )

DATE: JAN 20, 2000

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT HZ LN= 4

STRUCTURE DATA  
 TYPE = SPACE  
 NJ = 815  
 NM = 814  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = 640.0  
 YMAX = 127.4  
 ZMAX = 0.0



DUE TO SELF WT + SUPERIMPOSED DL

Maximum = 371946.50  
 J=815, M=814

UNIT MET KNS

S T A A D P O S T - P L O T (REV: 22.3 )

DATE: JAN 20, 2000

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT MZ LNE 4



MP-2  
PILE Mo-Diag.  
(TOTAL DL)

UNIT: MET KNS

DATE: JAN 23, 2000

STAAD POST - PLOT (REV: 22.3)

TITLE: RUPSA BRIDGE IN KHULNA

Maximum= 25731.61  
J=815,N=814

STRUCTURE DATA  
TYPE = SPACE  
NJ = 815  
NM = 814  
NE = 0  
NS = 0  
NRJ = 530  
NL = 4  
XMAX = 640.0  
YMAX = 127.4  
ZMAX = .0

MN/ELEM  
MOMENT MZ LNE= 4



MP-3  
PILE Mo-Diag  
(TOTAL PL)  
UNIT MET KNS

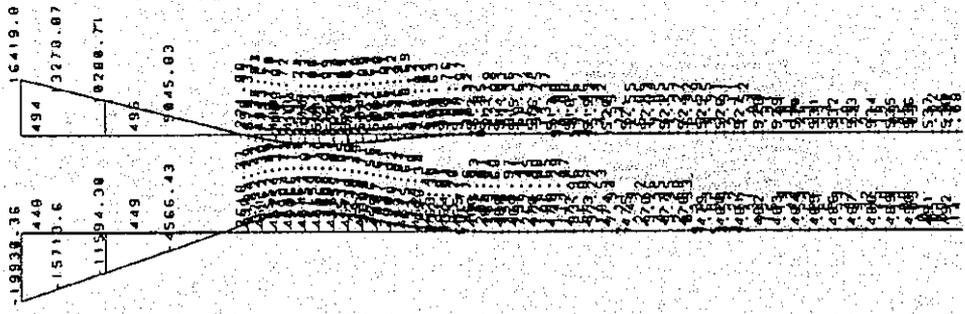
STRUCTURE DATA

TYPE = SPACE  
NJ = 815  
NM = 814  
NE = 0  
NS = 0  
NRJ = 530  
NL = 4  
XMAX = 640.0  
YMAX = 127.4  
ZMAX = .0

Maximum = 21100.62  
J=815, M=814

S T A A D P O S T - P L O T (REV: 22.3 )  
TITLE: RUPSA BRIDGE IN KHULNA  
DATE: JAN 23, 2000

MN/ELEM  
MOMENT MZ LN= 4



STRUCTURE DATA  
 TYPE = SPACE  
 NJ = 815  
 NM = 814  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = -640.0  
 YMAX = 127.4  
 ZMAX = .0

MP-4  
 PILE Mo-Diag.  
 (TOTAL DL)  
 UNIT MET KNS

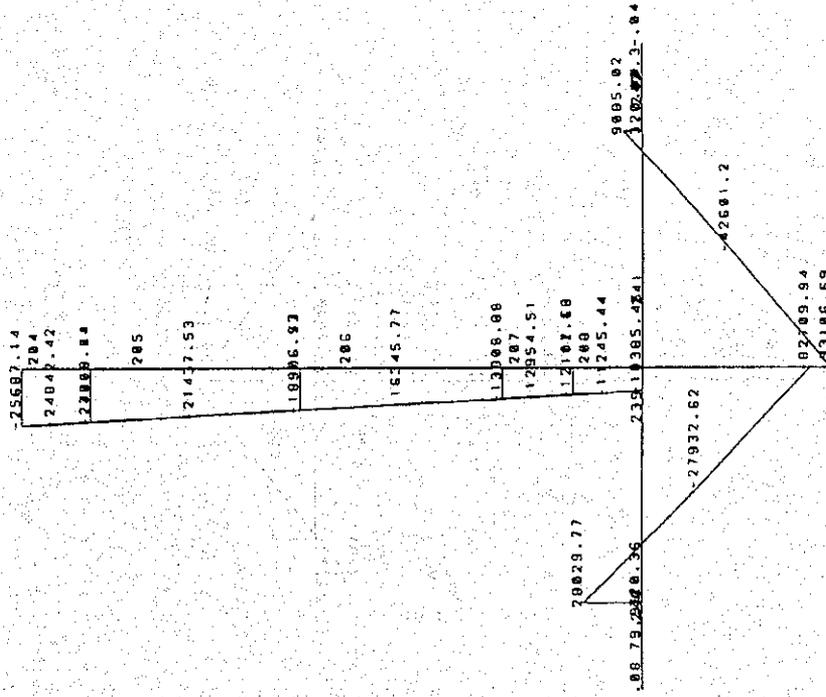
Maximum = 19930.36  
 J=815, M=814

STAAD POST - PLOT (REV: 22.3) DATE: JAN 23, 2000

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT MZ LN= 4

STRUCTURE DATA  
 TYPE = SPACE  
 NJ = 015  
 NH = 014  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = 640.0  
 YMAX = 127.4  
 ZMAX = .0



MP-2  
 COL. & COPING  
 Mo - Diag. (Total DL)

Maximum= 93106.69  
 J=015,M=014

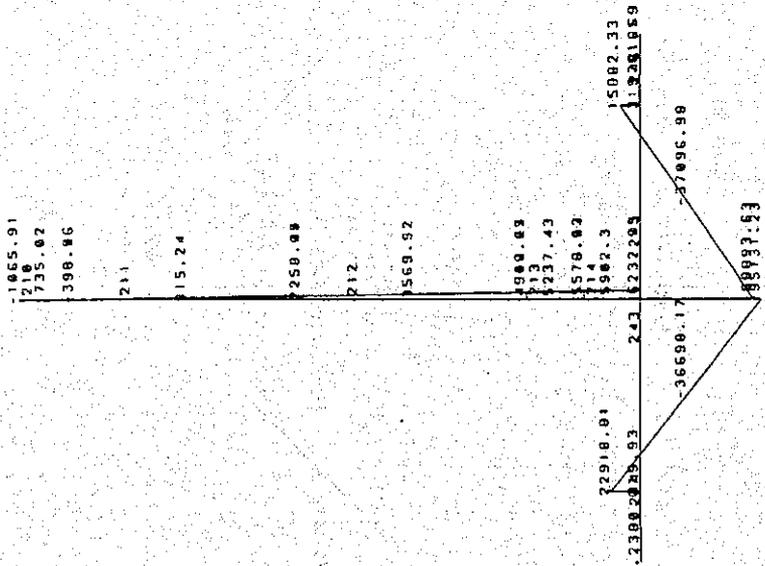
UNIT MEY KNS

S T A A D P O S T - P L O T (REV: 22.3 )  
 TITLE: RUPSA BRIDGE IN KHULNA

DATE: JAN 23, 2000

MN/ELEM  
MOMENT MZ LNE= 4

STRUCTURE DATA  
 TYPE = SPACE  
 NJ = 815  
 NM = 014  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = -640.0  
 YMAX = 127.4  
 ZMAX = 0



MP-3  
 COL & COPING  
 Mo-Diagr. (Total DL)

UNIT MET KNS

Maximum= 95131.23  
 J=815, M=014

DATE: JAN 23, 2000

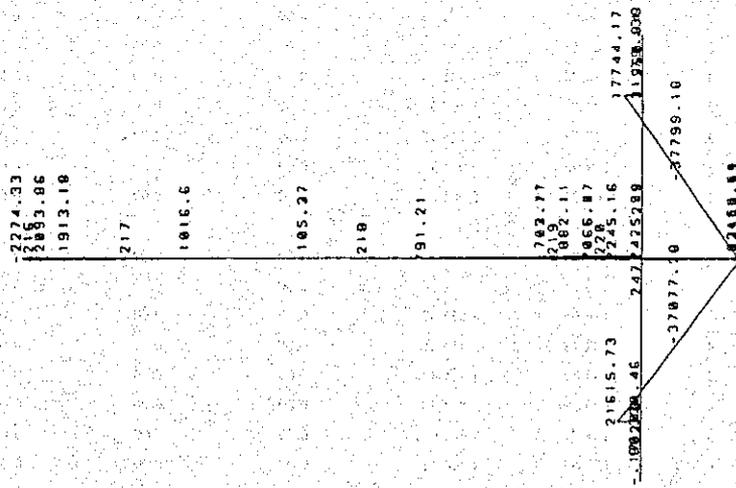
S T A A D P O S T - P L O T (REV: 22.3 )

TITLE: RUPSA BRIDGE IN KHULNA

MN/ELEM  
MOMENT MZ LNE 4

STRUCTURE DATA

TYPE = SPACE  
 NJ = 015  
 NM = 014  
 NE = 0  
 NS = 0  
 NRJ = 530  
 NL = 4  
 XMAX = 640.0  
 YMAX = 127.4  
 ZMAX = .0



MP-4  
 COL. & COPING  
 Mo-Diag. (Total DL)

Maximum = 94588.52  
 J=015,M=014

UNIT MET KNS

STAAD.POST - PLOT (REV: 22.3)  
 TITLE: RUPSA BRIDGE IN KHULNA

DATE: JAN 23, 2000

# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL   | SHEAR-Y   | SHEAR-Z | TORSION | MOM-Y | MOM-Z      |
|------|------|------|---------|-----------|---------|---------|-------|------------|
| 1    | 1    | 1    | -0.04   | -1.56     | 0.00    | 0.00    | 0.00  | 0.00       |
|      |      | 2    | 0.04    | 1.56      | 0.00    | 0.00    | 0.00  | -3.11      |
|      | 2    | 1    | 177.34  | 6,214.69  | 0.00    | 0.00    | 0.00  | -0.07      |
|      |      | 2    | -161.39 | -5,654.96 | 0.00    | 0.00    | 0.00  | 11,875.72  |
|      | 3    | 1    | 44.13   | 1,548.22  | 0.00    | 0.00    | 0.00  | -0.02      |
|      |      | 2    | -40.13  | -1,407.64 | 0.00    | 0.00    | 0.00  | 2,957.13   |
|      | 4    | 1    | 221.10  | 7,762.28  | 0.00    | 0.00    | 0.00  | 0.07       |
|      |      | 2    | -201.14 | -7,061.98 | 0.00    | 0.00    | 0.00  | 14,832.09  |
| 2    | 1    | 2    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 3.11       |
|      |      | 3    | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -9.34      |
|      | 2    | 2    | 169.63  | 5,654.70  | 0.00    | 0.00    | 0.00  | -11,875.85 |
|      |      | 3    | -136.04 | -4,535.24 | 0.00    | 0.00    | 0.00  | 32,267.34  |
|      | 3    | 2    | 42.21   | 1,407.59  | 0.00    | 0.00    | 0.00  | -2,957.14  |
|      |      | 3    | -33.78  | -1,126.43 | 0.00    | 0.00    | 0.00  | 8,027.56   |
|      | 4    | 2    | 211.93  | 7,061.71  | 0.00    | 0.00    | 0.00  | -14,832.21 |
|      |      | 3    | -169.91 | -5,661.09 | 0.00    | 0.00    | 0.00  | 40,292.73  |
| 3    | 1    | 3    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 9.34       |
|      |      | 4    | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -15.57     |
|      | 2    | 3    | 136.06  | 4,535.32  | 0.00    | 0.00    | 0.00  | -32,267.10 |
|      |      | 4    | -102.48 | -3,415.86 | 0.00    | 0.00    | 0.00  | 48,178.71  |
|      | 3    | 3    | 33.82   | 1,126.44  | 0.00    | 0.00    | 0.00  | -8,027.63  |
|      |      | 4    | -25.39  | -845.28   | 0.00    | 0.00    | 0.00  | 11,972.79  |
|      | 4    | 3    | 169.71  | 5,661.08  | 0.00    | 0.00    | 0.00  | -40,292.45 |
|      |      | 4    | -127.69 | -4,260.46 | 0.00    | 0.00    | 0.00  | 60,147.32  |
| 4    | 1    | 4    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 15.57      |
|      |      | 5    | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -21.80     |
|      | 2    | 4    | 102.55  | 3,415.81  | 0.00    | 0.00    | 0.00  | -48,178.86 |
|      |      | 5    | -68.97  | -2,296.35 | 0.00    | 0.00    | 0.00  | 59,608.72  |
|      | 3    | 4    | 25.34   | 845.24    | 0.00    | 0.00    | 0.00  | -11,972.90 |
|      |      | 5    | -16.91  | -564.08   | 0.00    | 0.00    | 0.00  | 14,792.84  |
|      | 4    | 4    | 127.77  | 4,260.48  | 0.00    | 0.00    | 0.00  | -60,147.18 |
|      |      | 5    | -85.75  | -2,859.86 | 0.00    | 0.00    | 0.00  | 74,396.01  |
| 5    | 1    | 5    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 21.80      |
|      |      | 6    | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -28.03     |
|      | 2    | 5    | 68.89   | 2,296.53  | 0.00    | 0.00    | 0.00  | -59,609.04 |
|      |      | 6    | -35.30  | -1,177.07 | 0.00    | 0.00    | 0.00  | 66,559.75  |
|      | 3    | 5    | 16.92   | 564.08    | 0.00    | 0.00    | 0.00  | -14,792.83 |
|      |      | 6    | -8.48   | -282.92   | 0.00    | 0.00    | 0.00  | 16,487.83  |
|      | 4    | 5    | 85.80   | 2,859.99  | 0.00    | 0.00    | 0.00  | -74,395.95 |
|      |      | 6    | -43.78  | -1,459.37 | 0.00    | 0.00    | 0.00  | 83,038.78  |
| 6    | 1    | 6    | -0.04   | -1.56     | 0.00    | 0.00    | 0.00  | 28.03      |
|      |      | 7    | 0.04    | 1.56      | 0.00    | 0.00    | 0.00  | -34.26     |
|      | 2    | 6    | 35.21   | 1,176.88  | 0.00    | 0.00    | 0.00  | -66,559.87 |
|      |      | 7    | -1.62   | -57.42    | 0.00    | 0.00    | 0.00  | 69,029.29  |
|      | 3    | 6    | 8.49    | 282.99    | 0.00    | 0.00    | 0.00  | -16,487.73 |
|      |      | 7    | -0.06   | -1.83     | 0.00    | 0.00    | 0.00  | 17,057.48  |
|      | 4    | 6    | 43.78   | 1,459.27  | 0.00    | 0.00    | 0.00  | -83,038.31 |
|      |      | 7    | -1.76   | -58.66    | 0.00    | 0.00    | 0.00  | 86,076.12  |
| 7    | 1    | 7    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 34.26      |
|      |      | 8    | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -39.71     |

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# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL   | SHEAR-Y   | SHEAR-Z | TORSION | MOM-Y | MOM-Z      |
|------|------|------|---------|-----------|---------|---------|-------|------------|
|      | 2    | 7    | 1.73    | 57.21     | 0.00    | 0.00    | 0.00  | -69,030.63 |
|      |      | 8    | 27.66   | 922.31    | 0.00    | 0.00    | 0.00  | 67,515.38  |
|      | 3    | 7    | 0.06    | 1.52      | 0.00    | 0.00    | 0.00  | -17,057.70 |
|      |      | 8    | 7.32    | 244.49    | 0.00    | 0.00    | 0.00  | 16,632.98  |
|      | 4    | 7    | 1.81    | 58.62     | 0.00    | 0.00    | 0.00  | -86,076.23 |
|      |      | 8    | 34.95   | 1,166.91  | 0.00    | 0.00    | 0.00  | 84,134.86  |
| 8    | 1    | 8    | -0.04   | -1.56     | 0.00    | 0.00    | 0.00  | 39.71      |
|      |      | 9    | 0.04    | 1.56      | 0.00    | 0.00    | 0.00  | -45.16     |
|      | 2    | 8    | -27.64  | -922.57   | 0.00    | 0.00    | 0.00  | -67,515.87 |
|      |      | 9    | 57.02   | 1,902.10  | 0.00    | 0.00    | 0.00  | 62,572.12  |
|      | 3    | 8    | -7.32   | -244.02   | 0.00    | 0.00    | 0.00  | -16,632.91 |
|      |      | 9    | 14.70   | 490.04    | 0.00    | 0.00    | 0.00  | 15,347.21  |
|      | 4    | 8    | -35.00  | -1,167.17 | 0.00    | 0.00    | 0.00  | -84,134.81 |
|      |      | 9    | 71.76   | 2,392.71  | 0.00    | 0.00    | 0.00  | 77,903.99  |
| 9    | 1    | 9    | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 45.16      |
|      |      | 10   | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -50.61     |
|      | 2    | 9    | -57.08  | -1,900.41 | 0.00    | 0.00    | 0.00  | -62,572.00 |
|      |      | 10   | 86.47   | 2,879.94  | 0.00    | 0.00    | 0.00  | 54,199.34  |
|      | 3    | 9    | -14.71  | -490.38   | 0.00    | 0.00    | 0.00  | -15,347.31 |
|      |      | 10   | 22.09   | 736.39    | 0.00    | 0.00    | 0.00  | 13,199.57  |
|      | 4    | 9    | -71.86  | -2,391.91 | 0.00    | 0.00    | 0.00  | -77,903.00 |
|      |      | 10   | 108.62  | 3,617.45  | 0.00    | 0.00    | 0.00  | 67,380.83  |
| 10   | 1    | 10   | -0.04   | -1.56     | 0.00    | 0.00    | 0.00  | 50.61      |
|      |      | 11   | 0.04    | 1.56      | 0.00    | 0.00    | 0.00  | -56.07     |
|      | 2    | 10   | -86.34  | -2,881.42 | 0.00    | 0.00    | 0.00  | -54,198.98 |
|      |      | 11   | 115.73  | 3,860.94  | 0.00    | 0.00    | 0.00  | 42,396.45  |
|      | 3    | 10   | -22.09  | -736.26   | 0.00    | 0.00    | 0.00  | -13,199.60 |
|      |      | 11   | 29.47   | 982.27    | 0.00    | 0.00    | 0.00  | 10,191.15  |
|      | 4    | 10   | -108.42 | -3,618.32 | 0.00    | 0.00    | 0.00  | -67,380.36 |
|      |      | 11   | 145.18  | 4,843.86  | 0.00    | 0.00    | 0.00  | 52,567.16  |
| 11   | 1    | 11   | -0.05   | -1.56     | 0.00    | 0.00    | 0.00  | 56.06      |
|      |      | 12   | 0.05    | 1.56      | 0.00    | 0.00    | 0.00  | -61.52     |
|      | 2    | 11   | -115.83 | -3,860.78 | 0.00    | 0.00    | 0.00  | -42,395.56 |
|      |      | 12   | 145.21  | 4,840.30  | 0.00    | 0.00    | 0.00  | 27,164.47  |
|      | 3    | 11   | -29.47  | -982.20   | 0.00    | 0.00    | 0.00  | -10,191.24 |
|      |      | 12   | 36.85   | 1,228.21  | 0.00    | 0.00    | 0.00  | 6,320.72   |
|      | 4    | 11   | -145.30 | -4,843.65 | 0.00    | 0.00    | 0.00  | -52,566.45 |
|      |      | 12   | 182.06  | 6,069.19  | 0.00    | 0.00    | 0.00  | 33,462.23  |
| 12   | 1    | 12   | -0.04   | -1.56     | 0.00    | 0.00    | 0.00  | 61.52      |
|      |      | 13   | 0.04    | 1.56      | 0.00    | 0.00    | 0.00  | -66.97     |
|      | 2    | 12   | -145.15 | -4,840.18 | 0.00    | 0.00    | 0.00  | -27,163.38 |
|      |      | 13   | 174.54  | 5,819.70  | 0.00    | 0.00    | 0.00  | 8,501.08   |
|      | 3    | 12   | -36.83  | -1,228.18 | 0.00    | 0.00    | 0.00  | -6,320.71  |
|      |      | 13   | 44.21   | 1,474.19  | 0.00    | 0.00    | 0.00  | 1,589.22   |
|      | 4    | 12   | -181.99 | -6,069.32 | 0.00    | 0.00    | 0.00  | -33,461.89 |
|      |      | 13   | 218.76  | 7,294.86  | 0.00    | 0.00    | 0.00  | 10,066.22  |
| 13   | 1    | 13   | 0.04    | -1.56     | 0.00    | 0.00    | 0.00  | 66.97      |
|      |      | 14   | -0.04   | 1.56      | 0.00    | 0.00    | 0.00  | -71.64     |
|      | 2    | 13   | -147.52 | -5,820.55 | 0.00    | 0.00    | 0.00  | -8,501.83  |
|      |      | 14   | -169.37 | 6,682.82  | 0.00    | 0.00    | 0.00  | -10,260.91 |

# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL | SHEAR-Y | SHEAR-Z    | TORSION | MOM-Y | MOM-Z       |
|------|------|------|-------|---------|------------|---------|-------|-------------|
|      |      | 3    | 13    | 37.36   | -1,474.49  | 0.00    | 0.00  | -1,589.25   |
|      |      |      | 14    | -42.70  | 1,685.36   | 0.00    | 0.00  | -3,152.28   |
|      |      | 4    | 13    | 184.74  | -7,295.59  | 0.00    | 0.00  | -10,065.42  |
|      |      |      | 14    | -211.92 | 8,368.73   | 0.00    | 0.00  | -13,438.62  |
| 14   | 1    |      | 14    | 0.04    | -1.56      | 0.00    | 0.00  | 71.64       |
|      |      |      | 15    | -0.04   | 1.56       | 0.00    | 0.00  | -76.31      |
|      | 2    |      | 14    | 173.84  | -6,683.15  | 0.00    | 0.00  | 10,260.13   |
|      |      |      | 15    | -197.42 | 7,589.99   | 0.00    | 0.00  | -31,676.98  |
|      | 3    |      | 14    | 43.84   | -1,685.29  | 0.00    | 0.00  | 3,152.15    |
|      |      |      | 15    | -49.33  | 1,896.16   | 0.00    | 0.00  | -8,526.53   |
|      | 4    |      | 14    | 217.58  | -8,368.38  | 0.00    | 0.00  | 13,440.35   |
|      |      |      | 15    | -246.64 | 9,486.09   | 0.00    | 0.00  | -40,230.24  |
| 15   | 1    |      | 15    | 0.04    | -1.56      | 0.00    | 0.00  | 76.31       |
|      |      |      | 16    | -0.04   | 1.56       | 0.00    | 0.00  | -80.98      |
|      | 2    |      | 15    | 200.06  | -7,589.48  | 0.00    | 0.00  | 31,676.45   |
|      |      |      | 16    | -225.07 | 8,539.31   | 0.00    | 0.00  | -55,878.40  |
|      | 3    |      | 15    | 49.91   | -1,896.28  | 0.00    | 0.00  | 8,526.38    |
|      |      |      | 16    | -55.46  | 2,107.15   | 0.00    | 0.00  | -14,533.21  |
|      | 4    |      | 15    | 249.99  | -9,486.29  | 0.00    | 0.00  | 40,231.85   |
|      |      |      | 16    | -280.56 | 10,646.98  | 0.00    | 0.00  | -70,443.25  |
| 16   | 1    |      | 16    | 0.05    | -1.55      | 0.00    | 0.00  | 80.98       |
|      |      |      | 17    | -0.05   | 1.55       | 0.00    | 0.00  | -85.65      |
|      | 2    |      | 16    | 227.69  | -8,539.88  | 0.00    | 0.00  | 55,876.55   |
|      |      |      | 17    | -254.13 | 9,531.10   | 0.00    | 0.00  | -82,993.88  |
|      | 3    |      | 16    | 56.22   | -2,106.87  | 0.00    | 0.00  | 14,533.22   |
|      |      |      | 17    | -61.85  | 2,317.74   | 0.00    | 0.00  | -21,173.23  |
|      | 4    |      | 16    | 283.69  | -10,645.69 | 0.00    | 0.00  | 70,443.45   |
|      |      |      | 17    | -315.74 | 11,847.78  | 0.00    | 0.00  | -104,200.80 |
| 17   | 1    |      | 17    | 0.04    | -1.56      | 0.00    | 0.00  | 85.65       |
|      |      |      | 18    | -0.04   | 1.56       | 0.00    | 0.00  | -90.33      |
|      | 2    |      | 17    | 254.27  | -9,530.58  | 0.00    | 0.00  | 82,992.49   |
|      |      |      | 18    | -281.76 | 10,561.54  | 0.00    | 0.00  | -113,142.90 |
|      | 3    |      | 17    | 61.77   | -2,317.93  | 0.00    | 0.00  | 21,173.24   |
|      |      |      | 18    | -67.40  | 2,528.80   | 0.00    | 0.00  | -28,445.87  |
|      | 4    |      | 17    | 316.03  | -11,849.07 | 0.00    | 0.00  | 104,200.30  |
|      |      |      | 18    | -349.15 | 13,090.91  | 0.00    | 0.00  | -141,623.90 |
| 18   | 1    |      | 18    | 0.04    | -1.56      | 0.00    | 0.00  | 90.33       |
|      |      |      | 19    | -0.04   | 1.56       | 0.00    | 0.00  | -95.00      |
|      | 2    |      | 18    | 281.55  | -10,561.05 | 0.00    | 0.00  | 113,143.00  |
|      |      |      | 19    | -310.06 | 11,630.18  | 0.00    | 0.00  | -146,441.40 |
|      | 3    |      | 18    | 67.42   | -2,528.76  | 0.00    | 0.00  | 28,445.96   |
|      |      |      | 19    | -73.04  | 2,739.63   | 0.00    | 0.00  | -36,351.50  |
|      | 4    |      | 18    | 349.29  | -13,089.71 | 0.00    | 0.00  | 141,623.50  |
|      |      |      | 19    | -383.42 | 14,369.71  | 0.00    | 0.00  | -182,834.10 |
| 19   | 1    |      | 19    | 0.04    | -1.56      | 0.00    | 0.00  | 95.00       |
|      |      |      | 20    | -0.04   | 1.56       | 0.00    | 0.00  | -99.67      |
|      | 2    |      | 19    | 302.49  | -11,629.94 | 0.00    | 0.00  | 146,444.30  |
|      |      |      | 20    | -331.24 | 12,753.65  | 0.00    | 0.00  | -183,003.80 |
|      | 3    |      | 19    | 71.22   | -2,739.83  | 0.00    | 0.00  | 36,351.37   |
|      |      |      | 20    | -76.70  | 2,950.70   | 0.00    | 0.00  | -44,889.83  |

# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL     | SHEAR-Y    | SHEAR-Z | TORSION | MOM-Y | MOM-Z       |
|------|------|------|-----------|------------|---------|---------|-------|-------------|
|      | 4    | 19   | 373.55    | -14,370.58 | 0.00    | 0.00    | 0.00  | 182,832.80  |
|      |      | 20   | -407.78   | 15,687.16  | 0.00    | 0.00    | 0.00  | -227,936.10 |
| 20   | 1    | 20   | 0.04      | -1.56      | 0.00    | 0.00    | 0.00  | 99.67       |
|      |      | 21   | -0.04     | 1.56       | 0.00    | 0.00    | 0.00  | -105.90     |
|      | 2    | 20   | 321.61    | -12,737.07 | 0.00    | 0.00    | 0.00  | 183,005.00  |
|      |      | 21   | -360.20   | 14,265.30  | 0.00    | 0.00    | 0.00  | -237,026.30 |
|      | 3    | 20   | 74.49     | -2,950.70  | 0.00    | 0.00    | 0.00  | 44,889.71   |
|      |      | 21   | -81.58    | 3,231.86   | 0.00    | 0.00    | 0.00  | -57,258.63  |
|      | 4    | 20   | 396.21    | -15,688.31 | 0.00    | 0.00    | 0.00  | 237,935.00  |
|      |      | 21   | -441.89   | 17,497.69  | 0.00    | 0.00    | 0.00  | -294,328.60 |
| 21   | 1    | 21   | 0.02      | -1.56      | 0.00    | 0.00    | 0.00  | 105.90      |
|      |      | 22   | -0.02     | 1.56       | 0.00    | 0.00    | 0.00  | -109.01     |
|      | 2    | 21   | 178.68    | -14,270.81 | 0.00    | 0.00    | 0.00  | 237,020.30  |
|      |      | 22   | -188.42   | 15,049.95  | 0.00    | 0.00    | 0.00  | -266,346.30 |
|      | 3    | 21   | 40.36     | -3,232.79  | 0.00    | 0.00    | 0.00  | 57,258.14   |
|      |      | 22   | -42.12    | 3,373.37   | 0.00    | 0.00    | 0.00  | -63,865.06  |
|      | 4    | 21   | 218.47    | -17,498.44 | 0.00    | 0.00    | 0.00  | 294,324.50  |
|      |      | 22   | -229.97   | 18,418.15  | 0.00    | 0.00    | 0.00  | -330,255.90 |
| 22   | 1    | 22   | 31.70     | 18.02      | 0.00    | 0.00    | 0.00  | 698.91      |
|      |      | 23   | -31.70    | -18.02     | 0.00    | 0.00    | 0.00  | -662.75     |
|      | 2    | 22   | 2,050.22  | -15,529.40 | 0.00    | 0.00    | 0.00  | 290,368.80  |
|      |      | 23   | -1,993.73 | 14,750.26  | 0.00    | 0.00    | 0.00  | -260,005.90 |
|      | 3    | 22   | 475.89    | 3,486.09   | 0.00    | 0.00    | 0.00  | 69,409.73   |
|      |      | 23   | -465.70   | -3,345.51  | 0.00    | 0.00    | 0.00  | -62,559.60  |
|      | 4    | 22   | 2,520.11  | -19,018.92 | 0.00    | 0.00    | 0.00  | 359,786.80  |
|      |      | 23   | -2,453.43 | 18,099.21  | 0.00    | 0.00    | 0.00  | -322,564.50 |
| 23   | 1    | 23   | 31.93     | 17.63      | 0.00    | 0.00    | 0.00  | 662.75      |
|      |      | 24   | -31.93    | -17.63     | 0.00    | 0.00    | 0.00  | -591.98     |
|      | 2    | 23   | 2,180.33  | -14,727.23 | 0.00    | 0.00    | 0.00  | 260,004.80  |
|      |      | 24   | -2,050.04 | 13,199.00  | 0.00    | 0.00    | 0.00  | -203,943.40 |
|      | 3    | 23   | 508.06    | 3,339.10   | 0.00    | 0.00    | 0.00  | 62,559.99   |
|      |      | 24   | -484.09   | -3,057.94  | 0.00    | 0.00    | 0.00  | -49,719.14  |
|      | 4    | 23   | 2,682.66  | -18,064.96 | 0.00    | 0.00    | 0.00  | 322,567.50  |
|      |      | 24   | -2,528.41 | 16,255.57  | 0.00    | 0.00    | 0.00  | -253,666.10 |
| 24   | 1    | 24   | 31.94     | 17.61      | 0.00    | 0.00    | 0.00  | 591.98      |
|      |      | 25   | -31.94    | -17.61     | 0.00    | 0.00    | 0.00  | -538.97     |
|      | 2    | 24   | 2,059.76  | -13,196.25 | 0.00    | 0.00    | 0.00  | 203,943.90  |
|      |      | 25   | -1,964.67 | 12,090.55  | 0.00    | 0.00    | 0.00  | -165,866.80 |
|      | 3    | 24   | 486.39    | 3,057.71   | 0.00    | 0.00    | 0.00  | 49,719.08   |
|      |      | 25   | -468.25   | -2,811.11  | 0.00    | 0.00    | 0.00  | -46,111.39  |
|      | 4    | 24   | 2,540.51  | -16,254.24 | 0.00    | 0.00    | 0.00  | 253,666.10  |
|      |      | 25   | -2,427.28 | 14,937.66  | 0.00    | 0.00    | 0.00  | -206,696.90 |
| 25   | 1    | 25   | 31.95     | 17.58      | 0.00    | 0.00    | 0.00  | 538.98      |
|      |      | 26   | -31.95    | -17.58     | 0.00    | 0.00    | 0.00  | -186.02     |
|      | 2    | 25   | 1,972.78  | -12,089.71 | 0.00    | 0.00    | 0.00  | 165,866.80  |
|      |      | 26   | -1,880.12 | 11,020.60  | 0.00    | 0.00    | 0.00  | -131,064.10 |
|      | 3    | 25   | 470.09    | 2,846.25   | 0.00    | 0.00    | 0.00  | 40,829.27   |
|      |      | 26   | -451.82   | -2,635.38  | 0.00    | 0.00    | 0.00  | -32,575.60  |
|      | 4    | 25   | 2,437.28  | -14,937.55 | 0.00    | 0.00    | 0.00  | 206,697.50  |
|      |      | 26   | -2,326.34 | 13,657.55  | 0.00    | 0.00    | 0.00  | -163,632.90 |

# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE      | AXIAL     | SHEAR-Y    | SHEAR-Z | TORSION | MOM-Y     | MOM-Z       |
|------|------|-----------|-----------|------------|---------|---------|-----------|-------------|
| 26   | 1    | 26        | 31.96     | 17.58      | 0.00    | 0.00    | 0.00      | 486.03      |
|      |      | 27        | -31.96    | -17.58     | 0.00    | 0.00    | 0.00      | -433.09     |
|      | 2    | 26        | 1,880.19  | 11,022.21  | 0.00    | 0.00    | 0.00      | 131,063.60  |
|      |      | 27        | -1,790.84 | -9,991.24  | 0.00    | 0.00    | 0.00      | -99,416.81  |
|      | 3    | 26        | 451.83    | 2,635.34   | 0.00    | 0.00    | 0.00      | 32,574.77   |
|      |      | 27        | -433.56   | -2,424.47  | 0.00    | 0.00    | 0.00      | -24,956.63  |
|      | 4    | 26        | 2,325.87  | 13,653.15  | 0.00    | 0.00    | 0.00      | 163,632.40  |
|      |      | 27        | -2,218.25 | -12,411.31 | 0.00    | 0.00    | 0.00      | -124,371.10 |
| 27   | 1    | 27        | 31.95     | 17.59      | 0.00    | 0.00    | 0.00      | 433.09      |
|      |      | 28        | -31.95    | -17.59     | 0.00    | 0.00    | 0.00      | -380.13     |
|      | 2    | 27        | 1,790.81  | 9,991.61   | 0.00    | 0.00    | 0.00      | 99,421.54   |
|      |      | 28        | -1,704.90 | -9,000.39  | 0.00    | 0.00    | 0.00      | -70,813.59  |
|      | 3    | 27        | 433.56    | 2,424.69   | 0.00    | 0.00    | 0.00      | 24,956.31   |
|      |      | 28        | -415.29   | -2,213.83  | 0.00    | 0.00    | 0.00      | -17,971.61  |
|      | 4    | 27        | 2,218.48  | 12,414.06  | 0.00    | 0.00    | 0.00      | 124,366.80  |
|      |      | 28        | -2,114.30 | -11,211.97 | 0.00    | 0.00    | 0.00      | -88,781.27  |
| 28   | 1    | 28        | 31.94     | 17.59      | 0.00    | 0.00    | 0.00      | 380.14      |
|      |      | 29        | -31.94    | -17.59     | 0.00    | 0.00    | 0.00      | -327.17     |
|      | 2    | 28        | 1,701.85  | 8,998.09   | 0.00    | 0.00    | 0.00      | 70,816.51   |
|      |      | 29        | -1,619.85 | -8,048.26  | 0.00    | 0.00    | 0.00      | -45,137.84  |
|      | 3    | 28        | 414.59    | 2,213.79   | 0.00    | 0.00    | 0.00      | 17,971.44   |
|      |      | 29        | -396.59   | -2,002.92  | 0.00    | 0.00    | 0.00      | -11,621.90  |
|      | 4    | 28        | 2,110.70  | 11,214.49  | 0.00    | 0.00    | 0.00      | 88,781.59   |
|      |      | 29        | -2,010.49 | -10,053.79 | 0.00    | 0.00    | 0.00      | -56,743.52  |
| 29   | 1    | 29        | 31.94     | 17.60      | 0.00    | 0.00    | 0.00      | 327.16      |
|      |      | 30        | -31.94    | -17.60     | 0.00    | 0.00    | 0.00      | -274.16     |
|      | 2    | 29        | 1,617.19  | 8,050.10   | 0.00    | 0.00    | 0.00      | 45,139.83   |
|      |      | 30        | -1,539.20 | -7,143.26  | 0.00    | 0.00    | 0.00      | -22,250.69  |
|      | 3    | 29        | 395.75    | 2,003.32   | 0.00    | 0.00    | 0.00      | 11,621.93   |
|      |      | 30        | -377.61   | -1,792.45  | 0.00    | 0.00    | 0.00      | -5,907.06   |
|      | 4    | 29        | 2,007.04  | 10,050.27  | 0.00    | 0.00    | 0.00      | 56,743.42   |
|      |      | 30        | -1,910.92 | -8,932.56  | 0.00    | 0.00    | 0.00      | -28,144.26  |
| 30   | 1    | 30        | 31.93     | 17.64      | 0.00    | 0.00    | 0.00      | 274.17      |
|      |      | 31        | -31.93    | -17.64     | 0.00    | 0.00    | 0.00      | -221.08     |
|      | 2    | 30        | 1,534.48  | 7,144.58   | 0.00    | 0.00    | 0.00      | 22,254.39   |
|      |      | 31        | -1,460.90 | -6,282.31  | 0.00    | 0.00    | 0.00      | -2,026.89   |
|      | 3    | 30        | 376.39    | 1,792.40   | 0.00    | 0.00    | 0.00      | 5,906.51    |
|      |      | 31        | -358.39   | -1,581.53  | 0.00    | 0.00    | 0.00      | -826.71     |
|      | 4    | 30        | 1,905.15  | 8,938.61   | 0.00    | 0.00    | 0.00      | 28,142.91   |
|      |      | 31        | -1,813.57 | -7,865.47  | 0.00    | 0.00    | 0.00      | -2,830.38   |
|      | 1    | 31        | 30.91     | 17.56      | 0.00    | 0.00    | 0.00      | 221.09      |
|      |      | 32        | -30.91    | -17.56     | 0.00    | 0.00    | 0.00      | -153.31     |
| 2    | 31   | 1,112.52  | 6,351.99  | 0.00       | 0.00    | 0.00    | 2,028.10  |             |
|      | 32   | -1,083.13 | -5,372.46 | 0.00       | 0.00    | 0.00    | 18,510.24 |             |
| 3    | 31   | 270.70    | 1,599.10  | 0.00       | 0.00    | 0.00    | 826.37    |             |
|      | 32   | -263.32   | -1,553.08 | 0.00       | 0.00    | 0.00    | 4,342.60  |             |
| 4    | 31   | 1,377.45  | 7,832.05  | 0.00       | 0.00    | 0.00    | 2,834.02  |             |
|      | 32   | -1,340.68 | -6,726.51 | 0.00       | 0.00    | 0.00    | 22,880.36 |             |
| 32   | 1    | 32        | 30.91     | 19.36      | 0.00    | 0.00    | 0.00      | 153.31      |
|      |      | 33        | -30.91    | -19.36     | 0.00    | 0.00    | 0.00      | -85.52      |

# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL     | SHEAR-Y   | SHEAR-Z | TORSION | MOM-Y | MOM-Z      |
|------|------|------|-----------|-----------|---------|---------|-------|------------|
|      | 2    | 32   | 1,083.05  | 5,372.16  | 0.00    | 0.00    | 0.00  | -18,512.79 |
|      |      | 33   | -1,053.67 | -4,392.64 | 0.00    | 0.00    | 0.00  | 35,617.33  |
|      | 3    | 32   | 263.30    | 1,353.04  | 0.00    | 0.00    | 0.00  | -4,342.66  |
|      |      | 33   | -255.92   | -1,107.03 | 0.00    | 0.00    | 0.00  | 8,650.36   |
|      | 4    | 32   | 1,340.56  | 6,724.64  | 0.00    | 0.00    | 0.00  | -22,877.83 |
|      |      | 33   | -1,303.79 | -5,499.10 | 0.00    | 0.00    | 0.00  | 44,296.65  |
| 33   | 1    | 33   | 30.91     | 19.36     | 0.00    | 0.00    | 0.00  | 85.52      |
|      |      | 34   | -30.91    | -19.36    | 0.00    | 0.00    | 0.00  | -17.74     |
|      | 2    | 33   | 1,053.60  | 4,393.50  | 0.00    | 0.00    | 0.00  | -35,621.21 |
|      |      | 34   | -1,024.22 | -3,413.97 | 0.00    | 0.00    | 0.00  | 49,296.30  |
|      | 3    | 33   | 255.94    | 1,107.40  | 0.00    | 0.00    | 0.00  | -8,649.76  |
|      |      | 34   | -248.56   | -861.39   | 0.00    | 0.00    | 0.00  | 12,096.99  |
|      | 4    | 33   | 1,303.79  | 5,499.08  | 0.00    | 0.00    | 0.00  | -44,296.84 |
|      |      | 34   | -1,267.02 | -4,273.54 | 0.00    | 0.00    | 0.00  | 61,420.46  |
| 34   | 1    | 34   | 30.91     | 19.35     | 0.00    | 0.00    | 0.00  | 17.73      |
|      |      | 35   | -30.91    | -19.35    | 0.00    | 0.00    | 0.00  | 50.02      |
|      | 2    | 34   | 1,024.22  | 3,414.62  | 0.00    | 0.00    | 0.00  | -49,296.55 |
|      |      | 35   | -994.83   | -2,435.10 | 0.00    | 0.00    | 0.00  | 59,543.98  |
|      | 3    | 34   | 248.56    | 860.83    | 0.00    | 0.00    | 0.00  | -12,096.63 |
|      |      | 35   | -241.18   | -614.82   | 0.00    | 0.00    | 0.00  | 14,680.50  |
|      | 4    | 34   | 1,267.16  | 4,274.30  | 0.00    | 0.00    | 0.00  | -61,421.94 |
|      |      | 35   | -1,230.39 | -3,048.76 | 0.00    | 0.00    | 0.00  | 74,249.36  |
| 35   | 1    | 35   | 30.91     | 19.36     | 0.00    | 0.00    | 0.00  | -50.03     |
|      |      | 36   | -30.91    | -19.36    | 0.00    | 0.00    | 0.00  | 117.83     |
|      | 2    | 35   | 994.89    | 2,433.60  | 0.00    | 0.00    | 0.00  | -59,543.12 |
|      |      | 36   | -965.51   | -1,454.07 | 0.00    | 0.00    | 0.00  | 66,357.94  |
|      | 3    | 35   | 241.19    | 615.13    | 0.00    | 0.00    | 0.00  | -14,680.30 |
|      |      | 36   | -233.81   | -369.11   | 0.00    | 0.00    | 0.00  | 16,404.44  |
|      | 4    | 35   | 1,230.37  | 3,049.74  | 0.00    | 0.00    | 0.00  | -74,248.27 |
|      |      | 36   | -1,193.60 | -1,824.20 | 0.00    | 0.00    | 0.00  | 82,790.80  |
| 36   | 1    | 36   | 30.91     | 19.36     | 0.00    | 0.00    | 0.00  | -117.82    |
|      |      | 37   | -30.91    | -19.36    | 0.00    | 0.00    | 0.00  | 185.60     |
|      | 2    | 36   | 965.43    | 1,454.11  | 0.00    | 0.00    | 0.00  | -66,359.09 |
|      |      | 37   | -936.05   | -474.58   | 0.00    | 0.00    | 0.00  | 69,736.63  |
|      | 3    | 36   | 233.76    | 368.90    | 0.00    | 0.00    | 0.00  | -16,404.06 |
|      |      | 37   | -226.38   | -122.89   | 0.00    | 0.00    | 0.00  | 17,264.76  |
|      | 4    | 36   | 1,193.57  | 1,825.39  | 0.00    | 0.00    | 0.00  | -82,786.58 |
|      |      | 37   | -1,156.80 | -599.85   | 0.00    | 0.00    | 0.00  | 87,029.99  |
| 37   | 1    | 37   | 30.90     | 19.38     | 0.00    | 0.00    | 0.00  | -185.56    |
|      |      | 38   | -30.90    | 19.38     | 0.00    | 0.00    | 0.00  | 224.38     |
|      | 2    | 37   | 936.06    | 474.52    | 0.00    | 0.00    | 0.00  | -7,745.47  |
|      |      | 38   | -919.27   | 81.81     | 0.00    | 0.00    | 0.00  | 70,124.51  |
|      | 3    | 37   | 226.44    | 123.56    | 0.00    | 0.00    | 0.00  | -17,265.62 |
|      |      | 38   | -222.22   | 17.02     | 0.00    | 0.00    | 0.00  | 17,370.80  |
|      | 4    | 37   | 1,156.68  | 590.39    | 0.00    | 0.00    | 0.00  | -87,036.33 |
|      |      | 38   | -1,135.67 | 39.92     | 0.00    | 0.00    | 0.00  | 87,521.28  |
| 38   | 1    | 38   | 30.90     | 19.32     | 0.00    | 0.00    | 0.00  | -224.37    |
|      |      | 39   | -30.90    | -19.32    | 0.00    | 0.00    | 0.00  | 263.05     |
|      | 2    | 38   | 919.12    | -83.71    | 0.00    | 0.00    | 0.00  | -70,133.57 |
|      |      | 39   | -902.62   | 643.44    | 0.00    | 0.00    | 0.00  | 69,400.60  |



# 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

## DEAD LOAD ANALYSIS

| MEMB | LOAD | NODE | AXIAL     | SHEAR-Y    | SHEAR-Z | TORSION | MOM-Y | MOM-Z       |
|------|------|------|-----------|------------|---------|---------|-------|-------------|
|      | 4    | 44   | 931.00    | -6,929.86  | 0.00    | 0.00    | 0.00  | -18,876.30  |
|      |      | 45   | -894.23   | 8,155.40   | 0.00    | 0.00    | 0.00  | -7,546.20   |
| 45   | 1    | 45   | 29.80     | 21.03      | 0.00    | 0.00    | 0.00  | -669.75     |
|      |      | 46   | -29.80    | -21.03     | 0.00    | 0.00    | 0.00  | 732.88      |
|      | 2    | 45   | 1,085.71  | -6,471.32  | 0.00    | 0.00    | 0.00  | 5,897.64    |
|      |      | 46   | -1,107.55 | 7,333.59   | 0.00    | 0.00    | 0.00  | -26,621.06  |
|      | 3    | 45   | 263.80    | -1,622.04  | 0.00    | 0.00    | 0.00  | 1,636.92    |
|      |      | 46   | -269.14   | 1,832.92   | 0.00    | 0.00    | 0.00  | -6,821.82   |
|      | 4    | 45   | 1,343.92  | -8,092.69  | 0.00    | 0.00    | 0.00  | 7,549.10    |
|      |      | 46   | -1,371.10 | 9,165.83   | 0.00    | 0.00    | 0.00  | -33,458.92  |
| 46   | 1    | 46   | 29.78     | 21.06      | 0.00    | 0.00    | 0.00  | -732.90     |
|      |      | 47   | -29.78    | -21.06     | 0.00    | 0.00    | 0.00  | 796.07      |
|      | 2    | 46   | 1,112.34  | -7,332.80  | 0.00    | 0.00    | 0.00  | 26,620.17   |
|      |      | 47   | -1,135.92 | 8,239.64   | 0.00    | 0.00    | 0.00  | -49,996.75  |
|      | 3    | 46   | 270.34    | -1,852.90  | 0.00    | 0.00    | 0.00  | 6,822.01    |
|      |      | 47   | -275.82   | 2,043.77   | 0.00    | 0.00    | 0.00  | -12,639.26  |
|      | 4    | 46   | 1,376.94  | -9,163.97  | 0.00    | 0.00    | 0.00  | 33,464.33   |
|      |      | 47   | -1,406.00 | 10,281.68  | 0.00    | 0.00    | 0.00  | -62,658.82  |
| 47   | 1    | 47   | 29.76     | 21.09      | 0.00    | 0.00    | 0.00  | -796.05     |
|      |      | 48   | -29.76    | -21.09     | 0.00    | 0.00    | 0.00  | 859.33      |
|      | 2    | 47   | 1,138.69  | -8,237.81  | 0.00    | 0.00    | 0.00  | 49,996.34   |
|      |      | 48   | -1,163.70 | 9,187.63   | 0.00    | 0.00    | 0.00  | -76,151.77  |
|      | 3    | 47   | 276.53    | -2,043.43  | 0.00    | 0.00    | 0.00  | 12,639.70   |
|      |      | 48   | -282.09   | 2,254.30   | 0.00    | 0.00    | 0.00  | -19,088.77  |
|      | 4    | 47   | 1,409.48  | -10,283.93 | 0.00    | 0.00    | 0.00  | 62,660.97   |
|      |      | 48   | -1,440.05 | 11,444.62  | 0.00    | 0.00    | 0.00  | -95,276.49  |
| 48   | 1    | 48   | 29.76     | 21.09      | 0.00    | 0.00    | 0.00  | -859.25     |
|      |      | 49   | -29.76    | -21.09     | 0.00    | 0.00    | 0.00  | 922.57      |
|      | 2    | 48   | 1,166.79  | -9,188.01  | 0.00    | 0.00    | 0.00  | 76,152.58   |
|      |      | 49   | -1,193.22 | 10,179.23  | 0.00    | 0.00    | 0.00  | -105,222.80 |
|      | 3    | 48   | 282.85    | -2,254.60  | 0.00    | 0.00    | 0.00  | 19,089.36   |
|      |      | 49   | -288.47   | 2,465.47   | 0.00    | 0.00    | 0.00  | -26,171.71  |
|      | 4    | 48   | 1,444.32  | -11,445.41 | 0.00    | 0.00    | 0.00  | 95,275.55   |
|      |      | 49   | -1,476.38 | 12,647.50  | 0.00    | 0.00    | 0.00  | -131,437.30 |
| 49   | 1    | 49   | 29.76     | 21.08      | 0.00    | 0.00    | 0.00  | -922.53     |
|      |      | 50   | -29.76    | -21.08     | 0.00    | 0.00    | 0.00  | 985.79      |
|      | 2    | 49   | 1,193.24  | -10,178.65 | 0.00    | 0.00    | 0.00  | 105,222.40  |
|      |      | 50   | -1,220.74 | 11,209.62  | 0.00    | 0.00    | 0.00  | -137,326.50 |
|      | 3    | 49   | 288.48    | -2,465.18  | 0.00    | 0.00    | 0.00  | 26,171.74   |
|      |      | 50   | -294.10   | 2,676.05   | 0.00    | 0.00    | 0.00  | -33,887.06  |
|      | 4    | 49   | 1,476.07  | -12,646.57 | 0.00    | 0.00    | 0.00  | 131,434.70  |
|      |      | 50   | -1,509.19 | 13,888.41  | 0.00    | 0.00    | 0.00  | -171,261.70 |
| 50   | 1    | 50   | 29.77     | 21.08      | 0.00    | 0.00    | 0.00  | -985.79     |
|      |      | 51   | -29.77    | -21.08     | 0.00    | 0.00    | 0.00  | 1,049.03    |
|      | 2    | 50   | 1,220.80  | -11,211.37 | 0.00    | 0.00    | 0.00  | 137,325.90  |
|      |      | 51   | -1,249.31 | 12,280.50  | 0.00    | 0.00    | 0.00  | -172,578.70 |
|      | 3    | 50   | 294.10    | -2,676.20  | 0.00    | 0.00    | 0.00  | 33,886.92   |
|      |      | 51   | -299.72   | 2,887.07   | 0.00    | 0.00    | 0.00  | -42,235.27  |
|      | 4    | 50   | 1,508.95  | -13,887.34 | 0.00    | 0.00    | 0.00  | 171,257.90  |
|      |      | 51   | -1,543.09 | 15,167.34  | 0.00    | 0.00    | 0.00  | -214,869.00 |