

MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역				
	Company	(주)풍우기술단	Client	
	Author	부설연구소	File Name	조봉교-라행선

: MIDAS/Civil Text(MCT) File.
: Date : 2013/6/18

*VERSION
8.1.5

*UNIT : Unit System
: FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, C

*PROJINFO : Project Information
USER=Windows 사용자
ADDRESS=d

*REBAR-MATL-CODE : Rebar Material Code
: CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD240, KS01-Civil(RC), SD240

*NODE : Nodes
: INO, X, Y, Z
101, 0, 7.7486, 0
102, 4.9140875, 7.843625, 0
103, 9.828175, 7.93865, 0
104, 14.7422625, 8.033675, 0
105, 19.65635, 8.1287, 0
106, 24.5704375, 8.223725, 0
107, 29.484525, 8.31875, 0
108, 34.3986125, 8.413775, 0
109, 39.3127, 8.5088, 0
110, 44.31176, 8.60547, 0
111, 49.31082, 8.70214, 0
112, 54.30988, 8.79881, 0
113, 59.30894, 8.89548, 0
114, 64.308, 8.99215, 0
115, 69.30706, 9.08862, 0
116, 74.30612, 9.18549, 0
117, 79.30518, 9.28218, 0
118, 84.30424, 9.37883, 0
119, 89.3033, 9.4755, 0
120, 94.2148875, 9.570475, 0
121, 99.126475, 9.66545, 0
122, 104.0380625, 9.760425, 0
123, 108.94965, 9.8554, 0
124, 113.8612375, 9.950375, 0
125, 118.772825, 10.04535, 0
126, 123.6844125, 10.140325, 0
127, 128.598, 10.2353, 0
201, 0.1498, 0, 0
202, 5.0638875, 0.095025, 0
203, 9.977975, 0.19005, 0
204, 14.8920625, 0.285075, 0
205, 19.80615, 0.3801, 0
206, 24.7202375, 0.475125, 0
207, 29.634325, 0.57015, 0

Modeling, Integrated Design & Analysis Software
http://www.MidasUser.com

Print Date/Time : 06/18/2013 16:24

- 1 / 22 -

MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역				
	Company	(주)풍우기술단	Client	
	Author	부설연구소	File Name	조봉교-라행선

208, 34.5484125, 0.665175, 0
209, 39.4825, 0.7602, 0
210, 44.46156, 0.85687, 0
211, 49.46062, 0.95354, 0
212, 54.45968, 1.05021, 0
213, 59.45874, 1.14688, 0
214, 64.4578, 1.24355, 0
215, 69.45686, 1.34022, 0
216, 74.45592, 1.43689, 0
217, 79.45498, 1.53356, 0
218, 84.45404, 1.63023, 0
219, 89.4531, 1.7269, 0
220, 94.3946875, 1.8218875, 0
221, 99.276275, 1.916875, 0
222, 104.1878625, 2.0118625, 0
223, 109.09945, 2.10685, 0
224, 114.0110375, 2.2018375, 0
225, 118.922625, 2.296825, 0
226, 123.8342125, 2.3918125, 0
227, 128.7458, 2.4868, 0
501, 0.0749, 3.8743, 0
502, 4.9889875, 3.969325, 0
503, 9.903075, 4.06435, 0
504, 14.8171625, 4.159375, 0
505, 19.73125, 4.2544, 0
506, 24.6453375, 4.349425, 0
507, 29.559425, 4.44445, 0
508, 34.4735125, 4.539475, 0
509, 39.3876, 4.6345, 0
510, 44.38666, 4.73117, 0
511, 49.38572, 4.82784, 0
512, 54.38478, 4.92451, 0
513, 59.38384, 5.02118, 0
514, 64.3829, 5.11785, 0
515, 69.38196, 5.21452, 0
516, 74.38102, 5.31119, 0
517, 79.38008, 5.40786, 0
518, 84.37914, 5.50453, 0
519, 89.3782, 5.6012, 0
520, 94.2897675, 5.69618125, 0
521, 99.201375, 5.7911625, 0
522, 104.1129625, 5.88614375, 0
523, 109.02455, 5.981125, 0
524, 113.9361375, 6.07610625, 0
525, 118.847725, 6.1710875, 0
526, 123.7593125, 6.26606875, 0
527, 128.6709, 6.36105, 0

*ELEMENT : Elements
: IEL, TYPE, IMAT, IPRO, IN1, IN2, ANGLE, ISUB, EXVAL, IOPT(EXVAL2) : Frame Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, ANGLE, ISUB, EXVAL, EXVAL2, bLMT : Comp/Tens Truss
: IEL, TYPE, IMAT, IPRO, IN1, IN2, IN3, IN4, ISUB, IWID : Planar Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, IN3, IN4, IN5, IN6, IN7, IN8 : Solid Element
: IEL, TYPE, IMAT, IPRO, IN1, IN2, REF, RPX, RPY, RPZ, ISUB, EXVAL : Frame(Ref. Point)
101, BEAM , 1, 11, 101, 102, 0
102, BEAM , 1, 12, 102, 103, 0

Modeling, Integrated Design & Analysis Software
http://www.MidasUser.com

Print Date/Time : 06/18/2013 16:24

- 2 / 22 -

MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역				
	Company	(주)풍우기술단	Client	
	Author	부설연구소	File Name	조봉교-라행선

103, BEAM , 1, 12, 103, 104, 0
104, BEAM , 1, 12, 104, 105, 0
105, BEAM , 1, 12, 105, 106, 0
106, BEAM , 1, 12, 106, 107, 0
107, BEAM , 1, 13, 107, 108, 0
108, BEAM , 1, 13, 108, 109, 0
109, BEAM , 1, 13, 109, 110, 0
110, BEAM , 1, 12, 110, 111, 0
111, BEAM , 1, 12, 111, 112, 0
112, BEAM , 1, 12, 112, 113, 0
113, BEAM , 1, 11, 113, 114, 0
114, BEAM , 1, 11, 114, 115, 0
115, BEAM , 1, 12, 115, 116, 0
116, BEAM , 1, 12, 116, 117, 0
117, BEAM , 1, 12, 117, 118, 0
118, BEAM , 1, 13, 118, 119, 0
119, BEAM , 1, 13, 119, 120, 0
120, BEAM , 1, 13, 120, 121, 0
121, BEAM , 1, 12, 121, 122, 0
122, BEAM , 1, 12, 122, 123, 0
123, BEAM , 1, 12, 123, 124, 0
124, BEAM , 1, 12, 124, 125, 0
125, BEAM , 1, 12, 125, 126, 0
126, BEAM , 1, 11, 126, 127, 0
201, BEAM , 1, 11, 201, 202, 0
202, BEAM , 1, 12, 202, 203, 0
203, BEAM , 1, 12, 203, 204, 0
204, BEAM , 1, 12, 204, 205, 0
205, BEAM , 1, 12, 205, 206, 0
206, BEAM , 1, 12, 206, 207, 0
207, BEAM , 1, 13, 207, 208, 0
208, BEAM , 1, 13, 208, 209, 0
209, BEAM , 1, 13, 209, 210, 0
210, BEAM , 1, 12, 210, 211, 0
211, BEAM , 1, 12, 211, 212, 0
212, BEAM , 1, 12, 212, 213, 0
213, BEAM , 1, 11, 213, 214, 0
214, BEAM , 1, 11, 214, 215, 0
215, BEAM , 1, 12, 215, 216, 0
216, BEAM , 1, 12, 216, 217, 0
217, BEAM , 1, 12, 217, 218, 0
218, BEAM , 1, 13, 218, 219, 0
219, BEAM , 1, 13, 219, 220, 0
220, BEAM , 1, 13, 220, 221, 0
221, BEAM , 1, 12, 221, 222, 0
222, BEAM , 1, 12, 222, 223, 0
223, BEAM , 1, 12, 223, 224, 0
224, BEAM , 1, 12, 224, 225, 0
225, BEAM , 1, 12, 225, 226, 0
226, BEAM , 1, 11, 226, 227, 0
401, BEAM , 2, 2, 101, 501, 0
402, BEAM , 2, 2, 102, 502, 0
403, BEAM , 2, 2, 103, 503, 0
404, BEAM , 2, 2, 104, 504, 0
405, BEAM , 2, 2, 105, 505, 0
406, BEAM , 2, 2, 106, 506, 0

Modeling, Integrated Design & Analysis Software
http://www.MidasUser.com

Print Date/Time : 06/18/2013 16:24

- 3 / 22 -

MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역				
	Company	(주)풍우기술단	Client	
	Author	부설연구소	File Name	조봉교-라행선

407, BEAM , 2, 2, 107, 507, 0
408, BEAM , 2, 2, 108, 508, 0
409, BEAM , 2, 2, 109, 509, 0
410, BEAM , 2, 2, 110, 510, 0
411, BEAM , 2, 2, 111, 511, 0
412, BEAM , 2, 2, 112, 512, 0
413, BEAM , 2, 2, 113, 513, 0
414, BEAM , 2, 2, 114, 514, 0
415, BEAM , 2, 2, 115, 515, 0
416, BEAM , 2, 2, 116, 516, 0
417, BEAM , 2, 2, 117, 517, 0
418, BEAM , 2, 2, 118, 518, 0
419, BEAM , 2, 2, 119, 519, 0
420, BEAM , 2, 2, 120, 520, 0
421, BEAM , 2, 2, 121, 521, 0
422, BEAM , 2, 2, 122, 522, 0
423, BEAM , 2, 2, 123, 523, 0
424, BEAM , 2, 2, 124, 524, 0
425, BEAM , 2, 2, 125, 525, 0
426, BEAM , 2, 2, 126, 526, 0
427, BEAM , 2, 2, 127, 527, 0
501, BEAM , 2, 2, 501, 201, 0
502, BEAM , 2, 2, 502, 202, 0
503, BEAM , 2, 2, 503, 203, 0
504, BEAM , 2, 2, 504, 204, 0
505, BEAM , 2, 2, 505, 205, 0
506, BEAM , 2, 2, 506, 206, 0
507, BEAM , 2, 2, 507, 207, 0
508, BEAM , 2, 2, 508, 208, 0
509, BEAM , 2, 2, 509, 209, 0
510, BEAM , 2, 2, 510, 210, 0
511, BEAM , 2, 2, 511, 211, 0
512, BEAM , 2, 2, 512, 212, 0
513, BEAM , 2, 2, 513, 213, 0
514, BEAM , 2, 2, 514, 214, 0
515, BEAM , 2, 2, 515, 215, 0
516, BEAM , 2, 2, 516, 216, 0
517, BEAM , 2, 2, 517, 217, 0
518, BEAM , 2, 2, 518, 218, 0
519, BEAM , 2, 2, 519, 219, 0
520, BEAM , 2, 2, 520, 220, 0
521, BEAM , 2, 2, 521, 221, 0
522, BEAM , 2, 2, 522, 222, 0
523, BEAM , 2, 2, 523, 223, 0
524, BEAM , 2, 2, 524, 224, 0
525, BEAM , 2, 2, 525, 225, 0
526, BEAM , 2, 2, 526, 226, 0
527, BEAM , 2, 2, 527, 227, 0
801, BEAM , 3, 3, 501, 502, 0
802, BEAM , 3, 3, 502, 503, 0
803, BEAM , 3, 3, 503, 504, 0
804, BEAM , 3, 3, 504, 505, 0
805, BEAM , 3, 3, 505, 506, 0
806, BEAM , 3, 3, 506, 507, 0
807, BEAM , 3, 3, 507, 508, 0
808, BEAM , 3, 3, 508, 509, 0

Modeling, Integrated Design & Analysis Software
http://www.MidasUser.com

Print Date/Time : 06/18/2013 16:24

- 4 / 22 -

PROJECT TITLE : 논산철안 1중시설물 경밀안전진단 용역			
	Company	(주)풍우기술단	
	Author	부설연구소	
	Client	File Name	조봉교-하행선

: NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, iTYPE, W, 0, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, iTYPE, P, W

: if Moving Load Code is KSCE-LSD12

: NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC, CODE

: NAME=NAME, 2, W1

: LOAD1, DIST1, LOAD2, DIST2, ...

: if Moving Load Code is AASHTO LRFD, CANADA and Load Type is Permit Truck

: NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR

: AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2, D2, ..., Pn, Dn

: ...

: AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2, D2, ..., Pn, Dn

: AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2, SPACING2, bVS2 ...

: if Moving Load Code is not one of those specified above.

: NAME=NAME, 1, TYPE-NAME, DLA, CODE

: NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST

: LOAD1, DIST1, LOAD2, DIST2, ...

: NAME=DB-24, 1, DB-24, 0, KS2005

: NAME=DL-24, 1, DL-24, 0, KS2005

*MVLDCASE : Moving Load Cases

: NAME=NAME, bLOPV, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC : 1st line

: nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4 : 2st line

: TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANET1, LANET2, ... : 3rd line

: ...

: TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1, LANEn2, ... : n+1th line

: NAME=NAME, bLOPV, VEHICLE, REFLANE, ECEN, SCALE, DESC : Permit

: NAME=MV, NO, 1, 1, 0.9, 0.75, 0.75, INDEPENDENT,

: 1, 1, 1, 1, 1, 0.5, 0.25

: VL, DB-24, 1, 1, 3, L1, L2, L3

: VL, DL-24, 1, 1, 3, L1, L2, L3

: NAME=MV2, NO, 1, 1, 0.9, 0.75, 0.75, INDEPENDENT,

: 1, 1, 1, 1, 1, 0.5, 0.25

: VL, DB-24, 1, 1, 3, L1-(Copy1), L2-(Copy1), L3-(Copy1)

: VL, DL-24, 1, 1, 3, L1-(Copy1), L2-(Copy1), L3-(Copy1)

*LOADCOMB : Combinations

: NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE : line 1

: ANAL1, LCNAME1, FACT1, ... : from line 2

: NAME=LC1, GEN, ACTIVE, 0, 0, ..., 0, 0

: ST, DL(BC), 1, ST, DL(AC), 1, MV, MV, 1

*CON-REAC-GROUP : Concurrent Reaction Group

: GROUP1, GROUP2, ..., GROUPn

: p1, p2

*LC-COLOR : Diagram Color for Load Case

: ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)

ST, DL(BC), 255, 255, 255, 146, 0, 255, 0, 128, 192

ST, DL(AC), 255, 255, 255, 87, 0, 192, 128, 0, 192, 128

ST, WL(No Live), 192, 192, 192, 0, 128, 128, 192, 192, 192, 192

ST, WL(Live), 255, 0, 128, 78, 0, 255, 255, 87, 87

ST, Unit Moment, 192, 128, 0, 128, 192, 0, 128, 192, 0

ST, Temp(+), 192, 128, 0, 0, 128, 128, 160, 192, 255

ST, Temp(-), 0, 157, 192, 210, 210, 210, 192, 128, 0

MV, MV, 192, 0, 192, 192, 0, 128, 0, 157, 192

Modeling, Integrated Design & Analysis Software

Print Date/Time : 06/18/2013 16:24

http://www.MidasUser.com

- 21 / 22 -

MIDAS

PROJECT TITLE : 논산철안 1중시설물 경밀안전진단 용역			
	Company	(주)풍우기술단	
	Author	부설연구소	
	Client	File Name	조봉교-하행선

MV, MV2, 85, 192, 0, 160, 255, 255, 85, 192, 0

CB, LC1, 255, 0, 192, 163, 255, 160, 78, 0, 255

*EIGEN-CTRL : Eigenvalue Analysis Control

: TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX, FRMIN, FRMAX, bSTRUM : TYPE=EIGEN

: TYPE, bINCNL, iGNUM : TYPE=RITZ(line 1)

: KIND1, CASE1/GROUND1, iNOG1, ... : TYPE=RITZ(from line2)

: EIGEN, 20, 20, 1, 1e-010, NO, 0, 1600, NO

*DGN-MATL : Modify Steel(Concrete) Material

: iMAT, TYPE, iMNAME, [DATA1] : STEEL

: iMAT, TYPE, iMNAME, [DATA2], [R-DATA], FC1, bSERV, SHORT, LONG : CONC

: iMAT, TYPE, iMNAME, [DATA3], [DATA2], [R-DATA] : SRC

: iMAT, TYPE, iMNAME, [DATA5] : STEEL(None) & KSCE-ASD05

: [DATA1] : 1, DB, CODE, NAME or 2, ELAST, POISN, FU, FY1, FY2, FY3, FY4

: FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3

: [DATA2] : 1, DB, CODE, NAME or 2, FC, QHK, LAMBDA

: [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1, FY2, FY3, FY4

: FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3

: [DATA4] : 1, DB, CODE, NAME or 2, FC

: [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5, AL6, AL7, AL8, AL9, AL10

: MIN1, MIN2, MIN3

: [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS

: 1, STEEL, SWS490, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

: 2, STEEL, SWS400C, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

: 3, STEEL, SWS400S, 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

*ENDDATA

Modeling, Integrated Design & Analysis Software

Print Date/Time : 06/18/2013 16:24

http://www.MidasUser.com

- 22 / 22 -