

MIDAS

|                                                                                  |         |          |           |         |
|----------------------------------------------------------------------------------|---------|----------|-----------|---------|
| PROJECT TITLE : <b>논산천안 1중시설물 경밀안전진단 용역</b>                                      |         |          |           |         |
|  | Company | (주)동우기술단 | Client    |         |
|                                                                                  | Author  | 부설연구소    | File Name | 조봉교-상행선 |

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

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|-----------------------------------------------------------------------------------|---------|----------|-----------|---------|
| PROJECT TITLE : <b>논산천안 1중시설물 경밀안전진단 용역</b>                                       |         |          |           |         |
|  | Company | (주)동우기술단 | Client    |         |
|                                                                                   | Author  | 부설연구소    | File Name | 조봉교-상행선 |

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

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|  | Company | (주)동우기술단 | Client    |         |
|                                                                                    | Author  | 부설연구소    | File Name | 조봉교-상행선 |

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

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| PROJECT TITLE : <b>논산천안 1중시설물 경밀안전진단 용역</b>                                         |         |          |           |         |
|  | Company | (주)동우기술단 | Client    |         |
|                                                                                     | Author  | 부설연구소    | File Name | 조봉교-상행선 |

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

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## MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역

| MIDAS | Company | (주)동우기술단 | Client    |         |
|-------|---------|----------|-----------|---------|
|       | Author  | 부설연구소    | File Name | 조봉교-상행선 |

809, BEAM , 3, 3, 509, 510, 0  
810, BEAM , 3, 3, 510, 511, 0  
811, BEAM , 3, 3, 511, 512, 0  
812, BEAM , 3, 3, 512, 513, 0  
813, BEAM , 3, 3, 513, 514, 0  
814, BEAM , 3, 3, 514, 515, 0  
815, BEAM , 3, 3, 515, 516, 0  
816, BEAM , 3, 3, 516, 517, 0  
817, BEAM , 3, 3, 517, 518, 0  
818, BEAM , 3, 3, 518, 519, 0  
819, BEAM , 3, 3, 519, 520, 0  
820, BEAM , 3, 3, 520, 521, 0  
821, BEAM , 3, 3, 521, 522, 0  
822, BEAM , 3, 3, 522, 523, 0  
823, BEAM , 3, 3, 523, 524, 0  
824, BEAM , 3, 3, 524, 525, 0  
825, BEAM , 3, 3, 525, 526, 0  
826, BEAM , 3, 3, 526, 527, 0

\*GROUP : Group  
: NAME, NODE\_LIST, ELEM\_LIST, PLANE\_TYPE  
G1 , , 101to126, 0  
G2 , , 201to227, 201to226, 0  
G3 , , 401to427 501to527, 0  
ST , , 501to527, 801to826, 0  
p1 , 119 219, , 0  
p2 , 109 209, , 0

\*MATERIAL : Material  
: IMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1] : STEEL, CONC, USE  
R  
: IMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] : SRC  
: [DATA1] : 1, DB, NAME, CODE  
: [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS  
: [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS : Orthotropic  
: [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS  
1, STEEL, SMS430 , 0, 0, , C, NO, 0.02, 2, 2.0594e+008, 0.3, 1.2000e-005, 84.9353,  
0  
2, STEEL, SMS400C , 0, 0, , C, NO, 0.02, 2, 2.0594e+008, 0.3, 1.2000e-005, 223.675,  
0  
3, STEEL, SMS400S , 0, 0, , C, NO, 0.02, 2, 2.0594e+008, 0.3, 1.2000e-005, 223.675,  
0

\*MATL-COLOR  
: IMAT, WLR, WLG, WLB, HF\_R, HF\_G, HF\_B, HE\_R, HE\_G, HE\_B, bBLEND, FACT  
1, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5  
2, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5  
3, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5

\*SECTION : Section  
: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] : 1st line - DB/USER  
: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., DB, ICEL : 1st line - VALUE  
: AREA, ASy, ASz, Ixx, Iyy, Izz : 2nd line  
: CyP, CyM, CzP, CzM, QyB, QzB, PERI\_OUT, PERI\_IN, Cy, Cz : 3rd line  
: Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyz, Zzz : 4th line

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## MIDAS

PROJECT TITLE : 논산천안 1중시설물 경밀안전진단 용역

|       |         |           |           |         |
|-------|---------|-----------|-----------|---------|
| MIDAS | Company | (주) 동우기술단 | Client    |         |
|       | Author  | 부설연구소     | File Name | 조봉교-상행선 |

: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF

: D1, D2, [SRC]

: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2

: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24

: ISEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE

: DB, NAME1, NAME2

: [D1M1], [D1M2]

: D11, D12, D13, D14, D15, D16, D17, D18

: AREA1, ASY1, ASZ1, Ixx1, Iyy1, Izz1

: CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI\_OUT1, PERI\_IN1, Cy1, Cz1

: Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyz1, Zyz2

: D21, D22, D23, D24, D25, D26, D27, D28

: AREA2, ASY2, ASZ2, Ixx2, Iyy2, Izz2

: CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI\_OUT2, PERI\_IN2, Cy2, Cz2

: Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyz2, Zzz2

: OPT1, OPT2, [JOINT]

: ELAST, DEN, POIS, POIC

)

: bSSEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], W1, WJ, bSYM, bSIDEHOLE

: bSSEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]

)

: bUSERDEFMESHIZE, MESHIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J]

: [SIZE-A]-i

: [SIZE-B]-i

: [SIZE-C]-i

: [SIZE-D]-i

: [SIZE-A]-j

: [SIZE-B]-j

: [SIZE-C]-j

: [SIZE-D]-j

: GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S

)

: SWL\_i, HwL\_i, twL\_i, B\_i, Bf1\_i, tf1\_i, B2\_i, Bf2\_i, tf2\_i

)

: SWL\_j, HwL\_j, twL\_j, B\_j, Bf1\_j, tf1\_j, B2\_j, Bf2\_j, tf2\_j

)

: N1, N2, Hr, Hr2, tr1, tr2

: GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SWL\_i, SWL\_j

T)

: OPT1, OPT2, [JOINT]

T)

: [SIZE-A]-i

T)

: [SIZE-B]-i

T)

: [SIZE-C]-i

T)

: [SIZE-D]-i

T)

: [SIZE-A]-j

T)

: [SIZE-B]-j

T)

: [SIZE-C]-j

CT)

: [SIZE-D]-j

1st line - SRC

2nd line

1st line - COMBINED

2nd line

1st line - TAPERED

2nd line(STYPE=DB)

2nd line(STYPE=USER)

2nd line(STYPE=VALUE)

3rd line(STYPE=VALUE)

4th line(STYPE=VALUE)

5th line(STYPE=VALUE)

6th line(STYPE=VALUE)

7th line(STYPE=VALUE)

8th line(STYPE=VALUE)

9th line(STYPE=VALUE)

2nd line(STYPE=PSC)

2nd line(STYPE=PSC-CMPW)

3rd line(STYPE=PSC)

3rd line(STYPE=PSC-CMPW)

4th line(STYPE=PSC)

5th line(STYPE=PSC)

6th line(STYPE=PSC)

7th line(STYPE=PSC)

8th line(STYPE=PSC)

9th line(STYPE=PSC)

10th line(STYPE=PSC)

11th line(STYPE=PSC)

12th line(STYPE=PSC)

2nd line(STYPE=OMP-B/I)

3rd line(STYPE=OMP-B/I)

4th line(STYPE=OMP-B/I)

5th line(STYPE=OMP-B)

2nd line(STYPE=OMP-CI/C)

3rd line(STYPE=OMP-CI/C)

4th line(STYPE=OMP-CI/C)

5th line(STYPE=OMP-CI/C)

6th line(STYPE=OMP-CI/C)

7th line(STYPE=OMP-CI/C)

8th line(STYPE=OMP-CI/C)

9th line(STYPE=OMP-CI/C)

10th line(STYPE=OMP-CI/C)

11th line(STYPE=OMP-CI/C)

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| Company | (주)동우기술단 | Client    |         |
|---------|----------|-----------|---------|
| Author  | 부설연구소    | File Name | 조봉교-상행선 |

CT)

|                                                                                                                                |                           |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| : ISEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2                                                                             | : 1st line - CONSTRUCT    |
| : SHAPE, ..., (same with other type data from shape)                                                                           | : Before (STYPE1)         |
| : SHAPE, ..., (same with other type data from shape)                                                                           | : After (STYPE2)          |
| : ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                                                      | : 1st line - COMPOSITE-SB |
| )                                                                                                                              |                           |
| : Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                                                                            | : 2nd line                |
| : N1, N2, Hr, Hr2, tr1, tr2                                                                                                    | : 3rd line                |
| : SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh                                                              | : 4th line                |
| : ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                                                      | : 1st line - COMPOSITE-SI |
| )                                                                                                                              |                           |
| : Hw, tw, B, tf1, B2, tf2                                                                                                      | : 2nd line                |
| : SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh                                                              | : 3rd line                |
| : ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                                                      | : 1st line - COMPOSITE-CI |
| /CT                                                                                                                            |                           |
| : OPT1, OPT2, [JOINT]                                                                                                          | : 2nd line                |
| : [SIZE-A]                                                                                                                     | : 3rd line                |
| : [SIZE-B]                                                                                                                     | : 4th line                |
| : [SIZE-C]                                                                                                                     | : 5th line                |
| : [SIZE-D]                                                                                                                     | : 6th line                |
| : SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb                                                                            | : 7th line                |
| : ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                                                      | : 1st line - PSC          |
| : OPT1, OPT2, [JOINT]                                                                                                          | : 2nd line                |
| : bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                                                                              | : 3rd line                |
| : bUSERDEFMESHIZE, MESHIZE, bUSERINPSTIFF, [STIFF]                                                                             | : 4th line                |
| : [SIZE-A]                                                                                                                     | : 5th line                |
| : [SIZE-B]                                                                                                                     | : 6th line                |
| : [SIZE-C]                                                                                                                     | : 7th line                |
| : [SIZE-D]                                                                                                                     | : 8th line                |
| )                                                                                                                              |                           |
| : [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10                                                          |                           |
| : [DATA2] : CSHAPE or ICEL or IN1, IN2                                                                                         |                           |
| : [SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, IN1, IN2                                          |                           |
| : [D1M1], [D1M2] : D1, D2, D3, D4, D5, D6, D7, D8                                                                              |                           |
| : [OFFSET] : OFFSET, iCENT, iREF, iHORZ, iUSER, iVERT, iUSER                                                                   |                           |
| : [OFFSET2] : OFFSET, iCENT, iREF, iHORZ, iUSER1, iUSERJ, iVERT, iUSER1, iUSERJ                                                |                           |
| : [JOINT] : 8(ICELL, 2OCELL), 13(3OCELL), 9(PSCM), 8(PSCH), 9(PSC), 2(PSOB), 0(nCELL), 2(nCEL2)                                |                           |
| : [SIZE-A] : 6(ICELL, 2OCELL), 10(3OCELL), 10(PSCM), 6(PSCH), 8(PSC), 10(PSOB), 5(nCELL), 11(nCEL2)                            |                           |
| : [SIZE-B] : 6(ICELL, 2OCELL), 12(3OCELL), 6(PSCM), 6(PSCH), 8(PSC), 6(PSOB), 8(nCELL), 18(nCEL2)                              |                           |
| : [SIZE-C] : 10(ICELL, 2OCELL), 13(3OCELL), 9(PSCM), 10(PSCH), 7(PSC), 8(PSOB), 0(nCELL), 11(nCEL2)                            |                           |
| : [SIZE-D] : 8(ICELL, 2OCELL), 13(3OCELL), 6(PSCM), 7(PSCH), 8(PSC), 5(PSOB), 0(nCELL), 18(nCEL2)                              |                           |
| : [STIFF] : AREA, ASY, ASZ, Ixx, Iyy, Izz                                                                                      |                           |
| : [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3                                                                                          |                           |
| : [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3                                                  |                           |
| : [CMPWB] : EFD, LRF, A, B, H, T                                                                                               |                           |
| 2, DBUSER, Crossbeam, CT, 0, 0, 0, 0, 0, 0, YES, H, 2, 1.5, 0.3, 0.012, 0.012, 0.3, 0.012, 0.006, 0, 0, 0                      |                           |
| 3, DBUSER, Stringer, CT, 0, 0, 0, 0, 0, 0, YES, H, 2, 0.8, 0.25, 0.01, 0.012, 0.25, 0.012, 0.035, 0, 0, 0                      |                           |
| 11, COMPOSITE, 11, CT, 0, 0, 0, 0, 0, 0, YES, B, 2, 0.012, 2.4, 0.1, 0.012, 2.4, 0.1, 0.012, 0, 0, 0.15, 0.15, 0.014, 0.014    |                           |
| 12, COMPOSITE, 12, CT, 0, 0, 0, 0, 0, 0, YES, B, 2, 0.012, 2.4, 0.1, 0.014, 2.4, 0.1, 0.016, 0, 0, 0.15, 0.15, 0.014, 0.014    |                           |
| 12, 435, 2, 7.2, 6.2175, 0.25, 0, 8, 0, 0, 0, NO, , 2, 0.012, 2.4, 0.1, 0.014, 2.4, 0.1, 0.016, 0, 0, 0.15, 0.15, 0.014, 0.014 |                           |

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| PROJECT TITLE : <b>논산철원1중시설물 정밀안전진단 용역</b>                                                         |                                                                 |          |                             |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------|-----------------------------|
|                    | Company                                                         | (주)동우기술단 | Client                      |
|                                                                                                    | Author                                                          | 부설연구소    | File Name                   |
|                                                                                                    |                                                                 |          | 초창고-상행선                     |
| :                                                                                                  | GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j |          | : 2nd line(STYPE=OMP-CI/C)  |
| :                                                                                                  | OPT1, OPT2, [JOINT]                                             |          | : 3rd line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-A]-i                                                      |          | : 4th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-B]-i                                                      |          | : 5th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-C]-i                                                      |          | : 6th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-D]-i                                                      |          | : 7th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-A]-j                                                      |          | : 8th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-B]-j                                                      |          | : 9th line(STYPE=OMP-CI/C)  |
| :                                                                                                  | [SIZE-C]-j                                                      |          | : 10th line(STYPE=OMP-CI/C) |
| :                                                                                                  | [SIZE-D]-j                                                      |          | : 11th line(STYPE=OMP-CI/C) |
| /ISEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2                                                  |                                                                 |          | : 1st line - CONSTRUCT      |
| :                                                                                                  | SHAPE, ... (same with other type data from shape)               |          | : Before (STYPE1)           |
| :                                                                                                  | SHAPE, ... (same with other type data from shape)               |          | : After (STYPE2)            |
| /ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                           |                                                                 |          | : 1st line - COMPOSITE-SB   |
| :                                                                                                  | Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                               |          | : 2nd line                  |
| :                                                                                                  | N1, N2, Hr, Hr2, tr1, tr2                                       |          | : 3rd line                  |
| :                                                                                                  | SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh |          | : 4th line                  |
| /ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                           |                                                                 |          | : 1st line - COMPOSITE-SI   |
| :                                                                                                  | Hw, tw, B, tf1, B2, tf2                                         |          | : 2nd line                  |
| :                                                                                                  | SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh |          | : 3rd line                  |
| /ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                           |                                                                 |          | : 1st line - COMPOSITE-CI   |
| /CT                                                                                                |                                                                 |          |                             |
| :                                                                                                  | OPT1, OPT2, [JOINT]                                             |          | : 2nd line                  |
| :                                                                                                  | [SIZE-A]                                                        |          | : 3rd line                  |
| :                                                                                                  | [SIZE-B]                                                        |          | : 4th line                  |
| :                                                                                                  | [SIZE-C]                                                        |          | : 5th line                  |
| :                                                                                                  | [SIZE-D]                                                        |          | : 6th line                  |
| :                                                                                                  | SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb               |          | : 7th line                  |
| /ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                                           |                                                                 |          | : 1st line - PSC            |
| :                                                                                                  | OPT1, OPT2, [JOINT]                                             |          | : 2nd line                  |
| :                                                                                                  | SEARCHCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                 |          | : 3rd line                  |
| :                                                                                                  | BUSERDEFMESHSIZE, MESHSIZE, BUSERINPSTIFF, [STIFF]              |          | : 4th line                  |
| :                                                                                                  | [SIZE-A]                                                        |          | : 5th line                  |
| :                                                                                                  | [SIZE-B]                                                        |          | : 6th line                  |
| :                                                                                                  | [SIZE-C]                                                        |          | : 7th line                  |
| :                                                                                                  | [SIZE-D]                                                        |          | : 8th line                  |
| [DATA1] : 1, D8, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10                                |                                                                 |          |                             |
| [DATA2] : CCSHAPE or ICEL or IN1, IN2                                                              |                                                                 |          |                             |
| [SRC] : 1, D8, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, IN1, IN2                |                                                                 |          |                             |
| [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8                                                    |                                                                 |          |                             |
| [OFFSET] : OFFSET, ICENT, IREF, IHRZ, HUSER, IVERT, VUSER                                          |                                                                 |          |                             |
| [OFFSET2] : OFFSET, ICENT, IREF, IHRZ, HUSER, IVERT, VUSER1, VUSERJ                                |                                                                 |          |                             |
| [JOINT] : 8(ICELL, 2CELL, 13(3CELL), 9(PSCM), 8(PSCH), 2(PSCB), 0(NCCELL), 2(NCCEL2)               |                                                                 |          |                             |
| [SIZE-A] : 6(ICELL, 2CELL, 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCST), 10(PSCB), 5(NCCELL), 11(NCCEL2) |                                                                 |          |                             |

**PROJECT TITLE :**      **논산천안 1중시설물 정밀안전진단 용역**

|              |                |          |                  |         |
|--------------|----------------|----------|------------------|---------|
| <b>MIDAS</b> | <b>Company</b> | (주)동우기술단 | <b>Client</b>    |         |
|              | <b>Author</b>  | 부설연구소    | <b>File Name</b> | 초봉교-상행선 |

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: [SIZE=B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCCT), 6(PSCB), 8(ncELL), 18(ncEL2)
: [SIZE=C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCCT), 8(PSCB), 0(ncELL), 11(ncEL2)
: [SIZE=D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCCT), 5(PSCB), 0(ncELL), 18(ncEL2)
: [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz
: [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
: [INT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
: [CMPWEB] : EFD, LRF, A, B, H, T
: 2, DBUSER , Crossbeam , CT, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.012, 0.012, 0.3, 0
: 0.012, 0.006, 0, 0, 0 , CT, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.012, 0.25,
: 3, DBUSER Stringer , CT, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.012, 0.25,
: 0.012, 0.035, 0, 0, 0 , CT, 0, 0, 0, 0, 0, 0, YES, B
: 11, COMPOSITE , 11 , CT, 0, 0, 0, 0, 0, 0, YES, B
: 2, 0.012, 2.4, 0.1, 0.012, 2.4, 0.1, 0.012
: 0, 0, 0.15, 0.15, 0.014, 0.014
: 12, COMPOSITE , 12 , CT, 0, 0, 0, 0, 0, 0, YES, B
: 2, 0.012, 2.4, 0.1, 0.014, 2.4, 0.1, 0.016
: 0, 0, 0.15, 0.15, 0.014, 0.014
: 12, 435, 2, 7.2, 6.2175, 0.25, 0, 8, 0, 0, NO, ,
: 13, COMPOSITE , 13 , CT, 0, 0, 0, 0, 0, 0, YES, B
: 2, 0.012, 2.4, 0.1, 0.02, 2.4, 0.1, 0.022
: 0, 0, 0.15, 0.15, 0.014, 0.014
: 12, 435, 2, 7.2, 6.2175, 0.25, 0, 8, 0, 0, NO, ,

*STLDCASE : Static Load Cases
: LCNAME, LCTYPE, DESC
: DL(BC), D ,
: DL(AC), D ,
: WL(No Live), USER,
: WL(Live), USER,
: Unit Moment, USER,
: Temp(+), T ,
: Temp(-), T ,

*CONSTRAINT : Supports
: NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
: 209, 111111,
: 109, 101000,
: 101 119 127, 001000,
: 201 119 227, 011000,

: *LOADTO MASS, DIR, bNODAL, bBEAM, bFLOOR, bPRES, GRAV
: : LCNAME1, FACTOR1, LCNAME2, FACTOR2, ... : from line 1
*LOADTO MASS, XYZ, YES, YES, YES, YES, 9.806
: DL(BC), 1, DL(AC), 1

*USE-STLD, DL(BC)

: *SELFWEIGHT, X, Y, Z, GROUP
: *SELFWEIGHT, 0, 0, -1,

*BEAMLORD : Element Beam Loads
: ELEMLIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
: ELEMLIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP

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| PROJECT TITLE :                                                                                                                                                                                                                                          |                       | 논산천안1중시설을 경미한전진단 용역    |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------------------------------------------|
| MIDAS                                                                                                                                                                                                                                                    | Company               | (주)몽우기술단               | Client                                            |
|                                                                                                                                                                                                                                                          | Author                | 부설연구소                  | File Name                                         |
|                                                                                                                                                                                                                                                          |                       |                        | 초창고-상행선                                           |
| <div> <div>[VALUE]</div> <div>: D1, P1, D2, P2, D3, P3, D4, P4</div> <div>[ECCEN]</div> <div>: bECCEN, ECCDIR, I-END, J-END, bJ-END</div> <div>[ADDITIONAL]</div> <div>: bADDITIONAL, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END</div> </div> |                       |                        |                                                   |
| 101, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 101, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 102, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 102, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 103, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 103, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 104, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 104, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 105, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 105, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 106, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 106, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 107, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 107, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 108, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 108, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 109, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 109, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 110, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 110, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 111, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 111, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 112, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 112, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 113, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 113, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 114, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 114, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 115, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 115, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 116, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 116, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 117, BEAM                                                                                                                                                                                                                                                | , UNLOAD, LX, NO      | , NO, aDir[1], , , , 0 | , 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO   |
| 117, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |
| 118, LINE                                                                                                                                                                                                                                                | , UNLOAD, GZ, YES, NO | , aDir[1], , , , 0     | , -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |

| PROJECT TITLE : |                                                                                             | 논산천안~홍시시설 경일안전전단 용역 |  |  |  |  |  |  |  |  |  |
|-----------------|---------------------------------------------------------------------------------------------|---------------------|--|--|--|--|--|--|--|--|--|
| Company         |                                                                                             | (주)동우기술단 용역         |  |  |  |  |  |  |  |  |  |
| Author          |                                                                                             | 부설연구소               |  |  |  |  |  |  |  |  |  |
|                 |                                                                                             | Client              |  |  |  |  |  |  |  |  |  |
|                 |                                                                                             | File Name           |  |  |  |  |  |  |  |  |  |
|                 |                                                                                             | 초문고-상행선             |  |  |  |  |  |  |  |  |  |
| 118. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 119. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 119. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 120. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 120. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 121. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 121. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 122. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 122. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 123. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 123. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 124. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.785, 1, -35.785, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 124. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 125. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.78, 1, -35.78, 0, 0, 0, 0, , NO, 0, 0, NO   |                     |  |  |  |  |  |  |  |  |  |
| 125. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 126. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 3.8796, 1, 3.8796, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 126. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -35.78, 1, -35.78, 0, 0, 0, 0, , NO, 0, 0, NO   |                     |  |  |  |  |  |  |  |  |  |
| 201. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 201. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 202. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 202. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 203. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 203. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 204. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 204. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 205. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 205. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 206. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 206. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 207. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 207. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 208. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 208. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 209. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 209. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 210. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |
| 210. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 211. LINE       | , UNILoad, GZ, YES, NO, aDir[1], , , , , 0, -37.527, 1, -37.527, 0, 0, 0, 0, , NO, 0, 0, NO |                     |  |  |  |  |  |  |  |  |  |
| 211. BEAM       | , UNILoad, LX, NO, NO, aDir[1], , , , , 0, 1.2828, 1, 1.2828, 0, 0, 0, 0, , NO, 0, 0, NO    |                     |  |  |  |  |  |  |  |  |  |

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PROJECT TITLE : 논산철원 1:중시시설물 경밀안전진단 용역

|                                                                                  |         |          |           |         |
|----------------------------------------------------------------------------------|---------|----------|-----------|---------|
|  | Company | (주)동우기술단 | Client    |         |
| Author                                                                           |         | 부설연구소    | File Name | 조봉교-상행선 |

202, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
202, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
203, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
203, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
204, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
204, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
205, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
205, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
206, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
206, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
207, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
207, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
208, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
208, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
209, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
209, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
210, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
210, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
211, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
211, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
212, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
212, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
213, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
213, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
214, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
214, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
215, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
215, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
216, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
216, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
217, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
217, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
218, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
218, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
219, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
219, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
220, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
220, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
221, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
221, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
222, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
222, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
223, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
223, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
224, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
224, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
225, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO  
225, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
226, LINE, UNIMOMENT, LX, NO, NO, aDir[1], . . . , 0.168, 1.168, 0.0, 0.0, . . . NO, 0.0, NO  
226, LINE, UNILOAD, LY, NO, NO, aDir[1], . . . , 0.13, 1.1, 13.11, 0.0, 0.0, . . . NO, 0.0, NO

: End of data for load case [WL(No Live)] -----

\*USE-STLD, Unit Moment

\*BEAMLOAD : Element Beam Loads

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PROJECT TITLE : 논산철원 1:중시시설물 경밀안전진단 용역

|                                                                                   |         |          |           |         |
|-----------------------------------------------------------------------------------|---------|----------|-----------|---------|
|  | Company | (주)동우기술단 | Client    |         |
| Author                                                                            |         | 부설연구소    | File Name | 조봉교-상행선 |

: ELEM\_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP  
: ELEM\_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE], GROUP  
: [VALUE] : D1, P1, D2, P2, D3, P3, D4, P4  
: [ECCEN] : bECCEN, ECCDIR, I-END, J-END, bJ-END  
: [ADDITIONAL] : bADDITIONAL, ADDITIONAL\_I-END, ADDITIONAL\_J-END, bADDITIONAL\_J-END  
101, BEAM, CONMOMENT, LY, NO, NO, aDir[1], . . . , 0.1, 1.0, 0.0, 0.0, . . . NO, 0.0, NO  
126, BEAM, CONMOMENT, LY, NO, NO, aDir[1], . . . , 1, -1, 0.0, 0.0, 0.0, . . . NO, 0.0, NO  
201, BEAM, CONMOMENT, LY, NO, NO, aDir[1], . . . , 0.1, 1.0, 0.0, 0.0, . . . NO, 0.0, NO  
226, BEAM, CONMOMENT, LY, NO, NO, aDir[1], . . . , 1, -1, 0.0, 0.0, 0.0, . . . NO, 0.0, NO

: End of data for load case [Unit Moment] -----

\*USE-STLD, Temp(+)

\*SYSTEMPER, SYSTEMP, GROUP

\*SYSTEMPER, 50,

: End of data for load case [Temp(+)] -----

\*USE-STLD, Temp(-)

\*SYSTEMPER, SYSTEMP, GROUP

\*SYSTEMPER, -10,

: End of data for load case [Temp(-)] -----

\*MVLDCODE : Moving Load Code

: CODE=CODE

CODE=KOREA

\*LINELANE : Traffic Line Lanes

: NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW, WS : line 1

: IELEM1, ECC1, FACT1, bSPAN1, . . . : from line 2

NAME=L1, CROSS, CB, 0, 0, BACKWARD, 3, 0

126, -0.575, 0.1875, YES, 125, -0.575, 0.1875, NO

124, -0.575, 0.1875, NO, 123, -0.575, 0.1875, NO

122, -0.575, 0.1875, NO, 121, -0.575, 0.1875, NO

120, -0.575, 0.1875, NO, 119, -0.575, 0.1875, NO

118, -0.575, 0.1667, YES, 117, -0.575, 0.1667, NO

116, -0.575, 0.1667, NO, 115, -0.575, 0.1667, NO

114, -0.575, 0.1667, NO, 113, -0.575, 0.1667, NO

112, -0.575, 0.1667, NO, 111, -0.575, 0.1667, NO

110, -0.575, 0.1667, NO, 109, -0.575, 0.1667, NO

108, -0.575, 0.1875, YES, 107, -0.575, 0.1875, NO

106, -0.575, 0.1875, NO, 105, -0.575, 0.1875, NO

104, -0.575, 0.1875, NO, 103, -0.575, 0.1875, NO

102, -0.575, 0.1875, NO, 101, -0.575, 0.1875, NO

NAME=L1-(Copy1), CROSS, CB, 0, 0, BACKWARD, 3, 0

126, -0.25, 0.1875, YES, 125, -0.25, 0.1875, NO

124, -0.25, 0.1875, NO, 123, -0.25, 0.1875, NO

122, -0.25, 0.1875, NO, 121, -0.25, 0.1875, NO

120, -0.25, 0.1875, NO, 119, -0.25, 0.1875, NO

118, -0.25, 0.1667, YES, 117, -0.25, 0.1667, NO

116, -0.25, 0.1667, NO, 115, -0.25, 0.1667, NO

114, -0.25, 0.1667, NO, 113, -0.25, 0.1667, NO

112, -0.25, 0.1667, NO, 111, -0.25, 0.1667, NO

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PROJECT TITLE : 논산철원 1:중시시설물 경밀안전진단 용역

|                                                                                    |         |          |           |         |
|------------------------------------------------------------------------------------|---------|----------|-----------|---------|
|  | Company | (주)동우기술단 | Client    |         |
| Author                                                                             |         | 부설연구소    | File Name | 조봉교-상행선 |

110, -0.25, 0.1667, NO, 109, -0.25, 0.1667, NO  
108, -0.25, 0.1875, YES, 107, -0.25, 0.1875, NO  
106, -0.25, 0.1875, NO, 105, -0.25, 0.1875, NO  
104, -0.25, 0.1875, NO, 103, -0.25, 0.1875, NO  
102, -0.25, 0.1875, NO, 101, -0.25, 0.1875, NO  
NAME=L2, CROSS, CB, 0, 0, BACKWARD, 3, 0  
826, 0, 0.1875, YES, 825, 0, 0.1875, NO, 824, 0, 0.1875, NO  
823, 0, 0.1875, NO, 822, 0, 0.1875, NO, 821, 0, 0.1875, NO  
820, 0, 0.1875, NO, 819, 0, 0.1875, NO, 818, 0, 0.1667, YES  
817, 0, 0.1667, NO, 816, 0, 0.1667, NO, 815, 0, 0.1667, NO  
814, 0, 0.1667, NO, 813, 0, 0.1667, NO, 812, 0, 0.1667, NO  
811, 0, 0.1667, NO, 810, 0, 0.1667, NO, 809, 0, 0.1667, NO  
808, 0, 0.1875, YES, 807, 0, 0.1875, NO, 806, 0, 0.1875, NO  
805, 0, 0.1875, NO, 804, 0, 0.1875, NO, 803, 0, 0.1875, NO  
802, 0, 0.1875, NO, 801, 0, 0.1875, NO  
NAME=L2-(Copy1), CROSS, CB, 0, 0, BACKWARD, 3, 0  
826, -0.525, 0.1875, YES, 825, -0.525, 0.1875, NO  
824, -0.525, 0.1875, NO, 823, -0.525, 0.1875, NO  
822, -0.525, 0.1875, NO, 821, -0.525, 0.1875, NO  
820, -0.525, 0.1875, NO, 819, -0.525, 0.1875, NO  
818, -0.525, 0.1667, YES, 817, -0.525, 0.1667, NO  
816, -0.525, 0.1667, NO, 815, -0.525, 0.1667, NO  
814, -0.525, 0.1667, NO, 813, -0.525, 0.1667, NO  
812, -0.525, 0.1667, NO, 811, -0.525, 0.1667, NO  
810, -0.525, 0.1667, NO, 809, -0.525, 0.1667, NO  
808, -0.525, 0.1875, YES, 807, -0.525, 0.1875, NO  
806, -0.525, 0.1875, NO, 805, -0.525, 0.1875, NO  
804, -0.525, 0.1875, NO, 803, -0.525, 0.1875, NO  
802, -0.525, 0.1875, NO, 801, -0.525, 0.1875, NO  
NAME=L3, CROSS, CB, 0, 0, BACKWARD, 3, 0  
226, 0.575, 0.1875, YES, 225, 0.575, 0.1875, NO  
224, 0.575, 0.1875, NO, 223, 0.575, 0.1875, NO  
222, 0.575, 0.1875, NO, 221, 0.575, 0.1875, NO  
220, 0.575, 0.1875, NO, 219, 0.575, 0.1875, NO  
218, 0.575, 0.1667, YES, 217, 0.575, 0.1667, NO  
216, 0.575, 0.1667, NO, 215, 0.575, 0.1667, NO  
214, 0.575, 0.1667, NO, 213, 0.575, 0.1667, NO  
212, 0.575, 0.1667, NO, 211, 0.575, 0.1667, NO  
210, 0.575, 0.1667, NO, 209, 0.575, 0.1667, NO  
208, 0.575, 0.1875, YES, 207, -0.575, 0.1875, NO  
206, 0.575, 0.1875, NO, 205, 0.575, 0.1875, NO  
204, 0.575, 0.1875, NO, 203, 0.575, 0.1875, NO  
202, 0.575, 0.1875, NO, 201, 0.575, 0.1875, NO  
NAME=L3-(Copy1), LANE, . . . , 0, 0, BACKWARD, 3, 0  
226, -0.8, 0.1875, YES, 225, -0.8, 0.1875, NO  
224, -0.8, 0.1875, NO, 223, -0.8, 0.1875, NO  
222, -0.8, 0.1875, NO, 221, -0.8, 0.1875, NO  
220, -0.8, 0.1875, NO, 219, -0.8, 0.1875, NO  
218, -0.8, 0.1667, YES, 217, -0.8, 0.1667, NO  
216, -0.8, 0.1667, NO, 215, -0.8, 0.1667, NO  
214, -0.8, 0.1667, NO, 213, -0.8, 0.1667, NO  
212, -0.8, 0.1667, NO, 211, -0.8, 0.1667, NO  
210, -0.8, 0.1667, NO, 209, -0.8, 0.1667, NO  
208, -0.8, 0.1875, YES, 207, -0.8, 0.1875, NO  
206, -0.8, 0.1875, NO, 205, -0.8, 0.1875, NO  
204, -0.8, 0.1875, NO, 203, -0.8, 0.1875, NO

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PROJECT TITLE : 논산철원 1:중시시설물 경밀안전진단 용역

|                                                                                     |         |          |           |         |
|-------------------------------------------------------------------------------------|---------|----------|-----------|---------|
|  | Company | (주)동우기술단 | Client    |         |
| Author                                                                              |         | 부설연구소    | File Name | 조봉교-상행선 |

202, -0.8, 0.1875, NO, 201, -0.8, 0.1875, NO

\*LSUPPORT : Lane Supports - Negative Moments at Interior Piers

: ITYPE, ELEM\_LIST, POSITION : (When ITYPE=0)

: ITYPE, GROUP-NAME : (When ITYPE=1)

0, 101 109 119 201 209 219, END-I

0, 108 118 126 208 218 226, END-J

\*VEHICLE : Vehicles

: If Moving Load Code is China

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

: NAME=NAME, 2, LTYPE, [TRUCK/LANE] or [TRAIN/SUBWAY] or [CROWD]

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

: [TRUCK/LANE] : 1, P, Qm, Qq

: [TRUCK/LANE] : 2, P, Qm, Qq

: [TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2

: [TRUCK/LANE] : 4, dw, dd

: [TRUCK/LANE] : 5

: [TRAIN/SUBWAY] : ITYPE, W1, D1, W2, D2

: [TRAIN/SUBWAY] : ITYPE, DO, FO, BO, MAINCOUNT

: [TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, D3, P4, d0, Po, n, IFR

: [CROWD] : 1, dw1

: [CROWD] : 2, dw1, dl1, dw2, dl2, WIDTH

: If Moving Load Type is India

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

: NAME=NAME, 2, bWTB, P, D, Pb, db, d01, d02, NDIST

: NAME=NAME, 2, bWTB, d01, d02, NDIST

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

: If Moving Load Code is CANADA

: NAME=NAME, 1, TYPE-NAME, DLA, CODE, [DYNA]

: NAME=NAME, 2, bTRAIN, W(w1), PL(D1), PLM(W2), PLV(D2), NDIST, [DYNA]

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

: [DYNA] : nDYNA, FACT1AXLE, FACT2AXLE, FACT3AXLE

: If Moving Load Code is BS

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

: NAME=Lane, FACTOR1, FACTOR2, FACTOR3, FACTOR4

: NAME=NAME, 2, ISTYPE, W1, W2, W3, L, Pa, Pb, D1, D2, d, UNITNUM

: NAME=NAME, 2, ISTYPE, [B037/01-HA], [B037/01-HB]

: NAME=NAME, 2, ISTYPE, W, L

: [GS-DATA-HA] : W1, W2, W3, EXP, L1, L2, Pa

: [GS-DATA-HB] : Pb, D1, D2, d, UNITNUM

: If Moving Load Code is EUROCODE

: NAME=NAME, 1, ITYPE, TYPE-NAME, PSY1, PSY2, PHI, [AF7]

: NAME=NAME, 1, ITYPE, TYPE-NAME, bDF, bU, PHI, PSY, ADJ, IN

: NAME=NAME, 2, 1, [AF7]

: [LOAD7] : D, PHI, TPSY, UPSY

: NAME=NAME, 2, 2, ALP, TPSY, W, BET, LPSY, P1, D1, P2, D2, . . .

: NAME=NAME, 2, 3

: [LOADCASE1]

: [LOADCASE2]

: [LOADCASE3]

: NAME=NAME, 2, 4, WS, V, AN, MINS, MAXS, DYF, U1, F, P1, D1, P2, D2, . . .

: NAME=NAME, 2, 5, INT, bPH11, PHI1, bPH12, PHI2

: [VEHICLE1]

: [VEHICLE2]

: [VEHICLE3]

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PROJECT TITLE : 논산철안 1중시설물 경밀안전진단 용역

|  | Company | (주)풍우기술단 | Client    |         |
|----------------------------------------------------------------------------------|---------|----------|-----------|---------|
|                                                                                  | Author  | 부설연구소    | File Name | 조봉교-상행선 |

: [AF7] : TF1, TF2, TF3, UF1, UF2, UF3, UF4

: [LOAD7] : TL1, TL2, TL3, UL1, UL2, UL3, UL4

: [LOADCASE] : bUSE, N, bOF, bU1, PH1, P1, L1, P2, L2, ...

: [VEHICLE] : bUSE, N, P1, L1, P2, L2, ...

: if Moving Load Code is RUSSIA

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, K, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, W, D, nDYNAFAC, dDYNAFAC

: NAME=NAME, 1, ITYPE, BRIDGETYPE, W

: NAME=NAME, 1, ITYPE, BRIDGETYPE, W

: NAME=NAME, 1, ITYPE, BRIDGETYPE, P

: NAME=NAME, 2, ITYPE, W, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, Variable, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, W, D, nDYNAFAC, dDYNAFAC

: NAME=NAME, 2, ITYPE, P, W

: if Moving Load Code is KSCE-LSD12

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

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| PROJECT TITLE : 논산철안 1중시설물 경밀안전진단 용역                                                                    |           |                                                                 |  |
|---------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------|--|
|                        | Company   | (주)풍우기술단                                                        |  |
|                                                                                                         | Author    | 부설연구소                                                           |  |
|                                                                                                         | Client    |                                                                 |  |
|                                                                                                         | File Name | 조봉교-상행선                                                         |  |
|                                                                                                         |           |                                                                 |  |
| 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, LCNAM1, 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, LCNAM, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX) |           |                                                                 |  |
|                                                                                                         |           |                                                                 |  |
| ST, DL(BC), 192, 0, 192, 0, 192, 192, 255, 0, 192                                                       |           |                                                                 |  |
| ST, DL(AC), 210, 210, 210, 192, 192, 192, 160, 192, 255                                                 |           |                                                                 |  |
| ST, WL(No Live), 192, 0, 192, 192, 192, 192, 255, 0, 128                                                |           |                                                                 |  |
| ST, WL(Live), 212, 160, 255, 255, 192, 87, 192, 192, 0                                                  |           |                                                                 |  |
| ST, Unit Moment, 192, 0, 128, 85, 192, 0, 78, 0, 255                                                    |           |                                                                 |  |
| ST, Temp(+), 255, 0, 192, 192, 0, 192, 128, 192, 0                                                      |           |                                                                 |  |
| ST, Temp(-), 255, 128, 0, 85, 192, 0, 255, 87, 87                                                       |           |                                                                 |  |
| MV, MV, 255, 192, 160, 93, 255, 87, 192, 128, 0                                                         |           |                                                                 |  |
| MV, MV2, 192, 192, 192, 0, 192, 128, 160, 192, 255                                                      |           |                                                                 |  |
| CB, LC1, 0, 128, 128, 192, 0, 128, 0, 128, 192                                                          |           |                                                                 |  |
|                                                                                                         |           |                                                                 |  |
| *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, MNAME, [DATA1]                                                                            |           | : STEEL                                                         |  |
| : IMAT, TYPE, MNAME, [DATA2], [R-DATA], FC1, bSERV, SHORT, LONG                                         |           | : CONC                                                          |  |
| : IMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]                                                         |           | : SRC                                                           |  |
| : IMAT, TYPE, MNAME, [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, CHK, 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]: RBCOORD, RBMAIN, RB SUB, FY(R), FY5                                                         |           |                                                                 |  |
| : 1, STEEL, SWS490                                                                                      |           | , 2, 2.0594e+008, 0.3, 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 |  |
| : 3, STEEL, SWS400S                                                                                     |           | , 2, 2.0594e+008, 0.3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 |  |
|                                                                                                         |           |                                                                 |  |
| *ENDDATA                                                                                                |           |                                                                 |  |