## ■ 청도천2교 대구방향(P4) 하부 output

LOAD SET FOR ELEMENT OUTPUTS - Load Set 1

<< LOAD COMBI/CASE/ENVEL ABBREVIATION TABLE >>

| ABBREVIATION | FULL NAME | TYPE | DESCRIPTION |
|---|---|---|---|
| No Abbreviation was made in this Load Set. All names are less than 8 char.'s | | | |

<< SELECTED LOAD CASE/COMBINATION DETAIL LIST >>

[Selected Load Cases]

| LOAD CASE DESCRIPTION | ANAL.TYPE | STATIC LOAD CASE DETAIL TYPE |
|---|---|---|
| D | Static | User Defined Load (USER) |
| L | Static | User Defined Load (USER) |
| W-TR | Static | User Defined Load (USER) |
| WL | Static | User Defined Load (USER) |
| W-LO | Static | User Defined Load (USER) |

BEAM ELEMENT FORCES & MOMENTS DEFAULT PRINTOUT Unit System : kN , m

| ELEM | MAT | SEC | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | D | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 175.2 | 0.0 | -157.7 | 0.0 |
| | | | L | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-TR | I | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | WL | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-LO | I | 0.0 | 0.0 | 0.0 | -0.0 | 0.0 | |
| | | | | J | 0.0 | -14.6 | 0.0 | 0.0 | 0.0 | 13.1 |
| 2 | 1 | 2 | D | I | 0.0 | 0.0 | 175.2 | 0.0 | -157.7 | 0.0 |
| | | | | J | 0.0 | 0.0 | 204.6 | 0.0 | -195.7 | 0.0 |
| | | | L | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-TR | I | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | WL | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-LO | I | 0.0 | 0.0 | 0.0 | -0.0 | 0.0 | |
| | | | | J | 0.0 | -14.6 | 0.0 | 0.0 | 0.0 | 13.1 |
| 3 | 1 | 2 | D | I | 0.0 | 0.0 | 4765.4 | 0.0 | -195.7 | 0.0 |
| | | | | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| | | | L | I | 0.0 | 0.0 | 575.9 | 0.0 | 0.0 | 0.0 |
| | | | | J | 0.0 | 0.0 | 575.9 | 0.0 | -604.7 | 0.0 |
| | | | W-TR | I | -226.9 | 0.0 | 0.0 | 654.5 | 0.0 | |
| | | | | J | -226.9 | 0.0 | 0.0 | 654.5 | 0.0 | |
| | | | WL | I | -25.0 | 0.0 | 0.0 | 139.6 | 0.0 | |
| | | | | J | -25.0 | 0.0 | 0.0 | 139.6 | 0.0 | |
| | | | W-LO | I | 0.0 | -21.8 | 0.0 | 0.0 | 16.8 | |
| | | | | J | 0.0 | -59.6 | 0.0 | 0.0 | 59.5 | |
| 4 | 1 | 2 | D | I | 77.6 | 0.0 | -404.5 | 0.0 | -3993.5 | 0.0 |
| | | | | J | 77.6 | 0.0 | -220.6 | 0.0 | -3602.8 | 0.0 |
| | | | L | I | 11.8 | 0.0 | 41.9 | 0.0 | -438.3 | 0.0 |
| | | | | J | 11.8 | 0.0 | 41.9 | 0.0 | -490.7 | 0.0 |
| | | | W-TR | I | -20.3 | 0.0 | 1240.0 | 0.0 | 3368.6 | 0.0 |
| | | | | J | -20.3 | 0.0 | 1240.0 | 0.0 | 1818.6 | 0.0 |
| | | | WL | I | 0.0 | 0.0 | 154.4 | 0.0 | 424.5 | 0.0 |
| | | | | J | 0.0 | 0.0 | 154.4 | 0.0 | 231.6 | 0.0 |
| | | | W-LO | I | 0.0 | 99.0 | 0.0 | 0.0 | 61.3 | |
| | | | | J | 0.0 | 54.0 | 0.0 | 0.0 | -34.4 | |
| 5 | 1 | 2 | D | I | 77.6 | 0.0 | -220.6 | 0.0 | -3602.8 | 0.0 |
| | | | | J | 77.6 | 0.0 | 220.6 | 0.0 | -3602.8 | 0.0 |
| | | | L | I | 11.8 | 0.0 | 41.9 | 0.0 | -490.7 | 0.0 |
| | | | | J | 11.8 | 0.0 | 41.9 | 0.0 | -616.3 | 0.0 |
| | | | W-TR | I | -20.3 | 0.0 | 1240.0 | 0.0 | 1818.6 | 0.0 |
| | | | | J | -20.3 | 0.0 | 1240.0 | 0.0 | -1901.5 | 0.0 |
| | | | WL | I | 0.0 | 0.0 | 154.4 | 0.0 | 231.6 | 0.0 |
| | | | | J | 0.0 | 0.0 | 154.4 | 0.0 | -231.6 | 0.0 |
| | | | W-LO | I | 0.0 | 54.0 | 0.0 | 0.0 | -34.4 | |
| | | | | J | 0.0 | -54.0 | 0.0 | 0.0 | -34.4 | |
| 6 | 1 | 2 | D | I | 77.6 | 0.0 | 220.6 | 0.0 | -3602.8 | 0.0 |
| | | | | J | 77.6 | 0.0 | 404.5 | 0.0 | -3993.5 | 0.0 |
| | | | L | I | 11.8 | 0.0 | 41.9 | 0.0 | -616.3 | 0.0 |
| | | | | J | 11.8 | 0.0 | 41.9 | 0.0 | -668.6 | 0.0 |
| | | | W-TR | I | -20.3 | 0.0 | 1240.0 | 0.0 | -1901.5 | 0.0 |
| | | | | J | -20.3 | 0.0 | 1240.0 | 0.0 | -3451.5 | 0.0 |
| | | | WL | I | 0.0 | 0.0 | 154.4 | 0.0 | -231.6 | 0.0 |
| | | | | J | 0.0 | 0.0 | 154.4 | 0.0 | -424.5 | 0.0 |
| | | | W-LO | I | 0.0 | -54.0 | 0.0 | 0.0 | -34.4 | |
| | | | | J | 0.0 | -99.0 | 0.0 | 0.0 | 61.3 | |
| 7 | 1 | 2 | D | I | 0.0 | 0.0 | -4919.8 | 0.0 | -5280.4 | 0.0 |
| | | | | J | 0.0 | 0.0 | -4765.4 | 0.0 | -195.7 | 0.0 |
| | | | L | I | 0.0 | 0.0 | -852.8 | 0.0 | -895.5 | 0.0 |
| | | | | J | 0.0 | 0.0 | -852.8 | 0.0 | 0.0 | 0.0 |
| | | | W-TR | I | 206.7 | 0.0 | 0.0 | 0.0 | -654.5 | 0.0 |
| | | | | J | 206.7 | 0.0 | 0.0 | 0.0 | -654.5 | 0.0 |
| | | | WL | I | 25.0 | 0.0 | 0.0 | 0.0 | -139.5 | 0.0 |
| | | | | J | 25.0 | 0.0 | 0.0 | 0.0 | -139.6 | 0.0 |
| | | | W-LO | I | 0.0 | 59.6 | 0.0 | 0.0 | 0.0 | 59.5 |
| | | | | J | 0.0 | 21.8 | 0.0 | 0.0 | 0.0 | 16.8 |
| 8 | 1 | 2 | D | I | 0.0 | 0.0 | -204.6 | 0.0 | -195.7 | 0.0 |
| | | | | J | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| | | | L | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-TR | I | -0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | -0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | WL | I | -0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | -0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-LO | I | 0.0 | 21.8 | 0.0 | 0.0 | 16.8 | |
| | | | | J | 0.0 | 14.6 | 0.0 | 0.0 | 13.1 | |
| 9 | 1 | 1 | D | I | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | L | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-TR | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | WL | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | | W-LO | I | 0.0 | 14.6 | 0.0 | 0.0 | 13.1 | |
| | | | | J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 10 | 1 | 3 | D | I | -5324.4 | 0.0 | -77.6 | 0.0 | -1193.8 | 0.0 |
| | | | | J | -8153.8 | 0.0 | -77.6 | 0.0 | 629.6 | 0.0 |
| | | | L | I | -534.0 | 0.0 | -11.8 | 0.0 | -152.2 | 0.0 |
| | | | | J | -534.0 | 0.0 | -11.8 | 0.0 | 126.4 | 0.0 |
| | | | W-TR | I | 1240.0 | 0.0 | -206.7 | 0.0 | -2466.1 | 0.0 |
| | | | | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| | | | WL | I | 154.4 | 0.0 | -25.0 | 0.0 | -255.0 | 0.0 |
| | | | | J | 154.4 | 0.0 | -25.0 | 0.0 | 332.8 | 0.0 |
| | | | W-LO | I | 0.0 | -158.6 | 0.0 | 1.8 | 0.0 | 190.3 |
| | | | | J | 0.0 | | | | | |

-246.7 0.0 1.8 0.0 4955.1

11 1 3 D I -5324.4
0.0 77.6 0.0 1193.8 0.0
J -8153.8
0.0 77.6 0.0 -629.6 0.0

L I -894.7
0.0 11.8 0.0 212.6 0.0
J -894.7
0.0 11.8 0.0 -66.0 0.0

W-TR I -1240.0
0.0 -226.9 0.0 -2524.7 0.0
J -1240.0
0.0 -271.0 0.0 3328.7 0.0

WL I -154.4
0.0 -25.0 0.0 -255.0 0.0
J -154.4
0.0 -25.0 0.0 332.8 0.0

W-LO I 0.0
-158.6 0.0 -1.8 0.0 190.3
J 0.0
-246.7 0.0 -1.8 0.0 4955.1

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BEAM ELEMENT FORCES & MOMENTS MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

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* LENGTH : the length of between two nodes

[ SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION SHAPE : SB ]
[ SECTION SIZE ] H:1.588 B:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 9 | AXL | D | 1 | I | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 9 | SHY | W-LO | 1 | I | 0.0 | 14.6 | 0.0 | 0.0 | 0.0 | 13.1 |
| 1.80 | | | | | | | | | | |
| 1 | SHZ | D | 1 | J | 0.0 | 0.0 | 175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 9 | TOR | D | 1 | I | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 1 | MTY | W-TR | 1 | I | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.80 | | | | | | | | | | |
| 1 | MTZ | W-LO | 1 | J | 0.0 | -14.6 | 0.0 | 0.0 | 0.0 | 13.1 |
| 1.80 | | | | | | | | | | |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AXL | W-TR | 1 | I | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.80 | | | | | | | | | | |
| 1 | SHY | W-LO | 1 | J | 0.0 | -14.6 | 0.0 | 0.0 | 0.0 | 13.1 |
| 1.80 | | | | | | | | | | |
| 9 | SHZ | D | 1 | I | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 9 | TOR | D | 1 | I | 0.0 | 0.0 | -175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 1 | MTY | D | 1 | J | 0.0 | 0.0 | 175.2 | 0.0 | -157.7 | 0.0 |
| 1.80 | | | | | | | | | | |
| 1 | MTZ | W-TR | 1 | I | -20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.80 | | | | | | | | | | |

[ SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION SHAPE : SB ]
[ SECTION SIZE ] H:2.4 B:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | AXL | W-TR | 1 | J | 206.7 | 0.0 | 0.0 | 0.0 | -654.5 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | SHY | W-LO | 1 | I | 0.0 | 99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |
| 3 | SHZ | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | TOR | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | MTY | W-TR | 1 | I | -20.3 | 0.0 | 1240.0 | 0.0 | 3368.6 | 0.0 |
| 1.25 | | | | | | | | | | |
| 4 | MTZ | W-LO | 1 | I | 0.0 | 99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | AXL | W-TR | 1 | I | -226.9 | 0.0 | 0.0 | 0.0 | 654.5 | 0.0 |
| 1.05 | | | | | | | | | | |
| 6 | SHY | W-LO | 1 | J | 0.0 | -99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |
| 7 | SHZ | D | 1 | I | 0.0 | 0.0 | -4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | TOR | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | MTY | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | MTZ | W-LO | 1 | J | 0.0 | 54.0 | 0.0 | 0.0 | 0.0 | -34.4 |
| 1.25 | | | | | | | | | | |

[ SECTION NAME : 기둥 , SECTION ID : 3 , SECTION SHAPE : SR ]
[ SECTION SIZE ] D:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | AXL | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | SHY | D | 1 | I | -5324.4 | 0.0 | -77.6 | 0.0 | -1193.8 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | SHZ | D | 1 | I | -5324.4 | 0.0 | 77.6 | 0.0 | 1193.8 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | TOR | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | 1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 10 | MTY | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | MTZ | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | 1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | AXL | D | 1 | J | -8153.8 | 0.0 | 77.6 | 0.0 | -629.6 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | SHY | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | -1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 10 | SHZ | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | TOR | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | -1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 11 | MTY | W-TR | 1 | I | -1240.0 | 0.0 | -226.9 | 0.0 | -2524.7 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | MTZ | D | 1 | J | -8153.8 | 0.0 | -77.6 | 0.0 | 629.6 | 0.0 |
| 23.51 | | | | | | | | | | |

BEAM ELEMENT STRESSES DEFAULT PRINTOUT
Unit System : kN , m

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| ELEM | MAT | SEC | LC | PT | AXIAL | SHEAR-z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | D | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| J | 0.0 | 0.0 | 66.2 | 0.0 | 0.0 | 150.1 | -150.1 | | | |
| L | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| J | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 7 | AXL | W-TR | 1 | J | 206.7 | 0.0 | 0.0 | 0.0 | -654.5 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | SHY | W-LO | 1 | I | 0.0 | 99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |
| 3 | SHZ | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | TOR | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | MTY | W-TR | 1 | I | -20.3 | 0.0 | 1240.0 | 0.0 | 3368.6 | 0.0 |
| 1.25 | | | | | | | | | | |
| 4 | MTZ | W-LO | 1 | I | 0.0 | 99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | AXL | W-TR | 1 | I | -226.9 | 0.0 | 0.0 | 0.0 | 654.5 | 0.0 |
| 1.05 | | | | | | | | | | |
| 6 | SHY | W-LO | 1 | J | 0.0 | -99.0 | 0.0 | 0.0 | 0.0 | 61.3 |
| 1.25 | | | | | | | | | | |
| 7 | SHZ | D | 1 | I | 0.0 | 0.0 | -4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | TOR | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 3 | MTY | D | 1 | J | 0.0 | 0.0 | 4919.8 | 0.0 | -5280.4 | 0.0 |
| 1.05 | | | | | | | | | | |
| 4 | MTZ | W-LO | 1 | J | 0.0 | 54.0 | 0.0 | 0.0 | 0.0 | -34.4 |
| 1.25 | | | | | | | | | | |

** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | AXL | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | SHY | D | 1 | I | -5324.4 | 0.0 | -77.6 | 0.0 | -1193.8 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | SHZ | D | 1 | I | -5324.4 | 0.0 | 77.6 | 0.0 | 1193.8 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | TOR | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | 1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 10 | MTY | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | MTZ | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | 1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-z | TORSION | MOMENT-y | MOMENT-z | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | AXL | D | 1 | J | -8153.8 | 0.0 | 77.6 | 0.0 | -629.6 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | SHY | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | -1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 10 | SHZ | W-TR | 1 | J | 1240.0 | 0.0 | -294.9 | 0.0 | 3429.9 | 0.0 |
| 23.51 | | | | | | | | | | |
| 11 | TOR | W-LO | 1 | J | 0.0 | -246.7 | 0.0 | -1.8 | 0.0 | 4955.1 |
| 23.51 | | | | | | | | | | |
| 11 | MTY | W-TR | 1 | I | -1240.0 | 0.0 | -226.9 | 0.0 | -2524.7 | 0.0 |
| 23.51 | | | | | | | | | | |
| 10 | MTZ | D | 1 | J | -8153.8 | 0.0 | -77.6 | 0.0 | 629.6 | 0.0 |
| 23.51 | | | | | | | | | | |

W-TR I -5.1
0.0 0.0 0.0 0.0 0.0 0.0
J -5.1 0.0
0.0 0.0 0.0 0.0 0.0

WL I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-LO I 0.0
0.0 0.0 0.0 0.0 0.0 0.0
J 0.0 -5.5
0.0 -7.9 7.9 0.0 0.0

2 1 2 D I 0.0
0.0 43.8 0.0 0.0 65.7 -65.7
J 0.0 0.0
51.2 0.0 0.0 81.5 -81.5

L I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-TR I -3.4
0.0 0.0 0.0 0.0 0.0 0.0
J -3.4 0.0
0.0 0.0 0.0 0.0 0.0

WL I 0.0 0.0
0.0 0.0 0.0 0.0 0.0
J 0.0 0.0
0.0 0.0 0.0 0.0 0.0

W-LO I 0.0
-3.6 0.0 -5.2 5.2 0.0 0.0
J 0.0 -5.4
0.0 -6.7 6.7 0.0 0.0

3 1 2 D I 0.0
0.0 1191.3 0.0 0.0 81.5 -81.5
J 0.0 0.0
1230.0 0.0 0.0 2200.2 -2200.2

L I 0.0 0.0
144.0 0.0 0.0 0.0 0.0
J 0.0 0.0
144.0 0.0 0.0 252.0 -252.0

W-TR I -37.8
0.0 0.0 0.0 0.0 -272.7 272.7
J -37.8 0.0
0.0 0.0 0.0 -272.7 272.7

WL I -4.2
0.0 0.0 0.0 0.0 -58.1 58.1
J -4.2 0.0
0.0 0.0 0.0 -58.1 58.1

W-LO I 0.0
-5.4 0.0 -6.7 6.7 0.0 0.0
J 0.0 -14.9
0.0 -23.8 23.8 0.0 0.0

4 1 2 D I 12.9
0.0 -101.1 0.0 0.0 1664.0 -1664.0
J 12.9 0.0
-55.2 0.0 0.0 1501.1 -1501.1

L I 2.0 0.0
10.5 0.0 0.0 182.6 -182.6
J 2.0 0.0
10.5 0.0 0.0 204.4 -204.4

W-TR I -3.4
0.0 310.0 0.0 0.0 -1403.6 1403.6
J -3.4 0.0
310.0 0.0 0.0 -757.7 757.7

WL I 0.0 0.0
38.6 0.0 0.0 -176.9 176.9
J 0.0 0.0
38.6 0.0 0.0 -96.5 96.5

W-LO I 0.0
24.7 0.0 -24.5 24.5 0.0 0.0
J 0.0 13.5
0.0 13.7 -13.7 0.0 0.0

5 1 2 D I 12.9
0.0 -55.2 0.0 0.0 1501.1 -1501.1
J 12.9 0.0
55.2 0.0 0.0 1501.1 -1501.1

L I 2.0 0.0
10.5 0.0 0.0 204.4 -204.4
J 2.0 0.0
10.5 0.0 0.0 256.8 -256.8

W-TR I -3.4
0.0 310.0 0.0 0.0 -757.7 757.7
J -3.4 0.0
310.0 0.0 0.0 792.3 -792.3

WL I 0.0 0.0

```
     38.6        0.0        0.0      -96.5       96.5
                                          J        0.0        0.0
     38.6        0.0        0.0       96.5      -96.5

                                      W-LO          I        0.0
13.5        0.0       13.7      -13.7        0.0        0.0
                                          J        0.0      -13.5
      0.0       13.7      -13.7        0.0        0.0

      6         1         2          D          I         12.9
0.0        55.2        0.0        0.0     1501.1    -1501.1
                                          J        12.9        0.0
    101.1        0.0        0.0     1664.0    -1664.0

                                          L          I        2.0        0.0
     10.5        0.0        0.0      256.8     -256.8
                                          J        2.0        0.0
     10.5        0.0        0.0      278.6     -278.6

                                      W-TR          I       -3.4
0.0      310.0        0.0        0.0      792.3     -792.3
                                          J       -3.4        0.0
    310.0        0.0        0.0     1438.1    -1438.1

                                         WL          I        0.0        0.0
     38.6        0.0        0.0       96.5      -96.5
                                          J        0.0        0.0
     38.6        0.0        0.0      176.9     -176.9

                                      W-LO          I        0.0
-13.5        0.0       13.7      -13.7        0.0        0.0
                                          J        0.0      -24.8
      0.0      -24.5       24.5        0.0        0.0

      7         1         2          D          I         0.0
0.0     -1230.0        0.0        0.0     2200.2    -2200.2
                                          J        0.0        0.0
 -1191.3        0.0        0.0       81.5      -81.5

                                          L          I        0.0        0.0
   -213.2        0.0        0.0      373.1     -373.1
                                          J        0.0        0.0
   -213.2        0.0        0.0        0.0        0.0

                                      W-TR          I       34.4
0.0        0.0        0.0        0.0      272.7     -272.7
                                          J       34.4        0.0
      0.0        0.0        0.0      272.7     -272.7

                                         WL          I        4.2        0.0
      0.0        0.0        0.0       58.1      -58.1
                                          J        4.2        0.0
      0.0        0.0        0.0       58.1      -58.1

                                      W-LO          I        0.0
14.9        0.0      -23.8       23.8        0.0        0.0
                                          J        0.0        5.4
      0.0       -6.7        6.7        0.0        0.0

      8         1         2          D          I         0.0
0.0      -51.2        0.0        0.0       81.5      -81.5
                                          J        0.0        0.0
   -43.8        0.0        0.0       65.7      -65.7

                                          L          I        0.0        0.0
      0.0        0.0        0.0        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                      W-TR          I       -0.0
0.0        0.0        0.0        0.0        0.0        0.0
                                          J       -0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                         WL          I        0.0        0.0
      0.0        0.0        0.0        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                      W-LO          I        0.0
5.4        0.0       -6.7        6.7        0.0        0.0
                                          J        0.0        3.6
      0.0       -5.2        5.2        0.0        0.0

      9         1         1          D          I         0.0
0.0      -66.2        0.0        0.0      150.1     -150.1
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                          L          I        0.0        0.0
      0.0        0.0        0.0        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                      W-TR          I        0.0
0.0        0.0        0.0        0.0        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                         WL          I        0.0        0.0
      0.0        0.0        0.0        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

                                      W-LO          I        0.0
5.5        0.0       -7.9        7.9        0.0        0.0
                                          J        0.0        0.0
      0.0        0.0        0.0        0.0        0.0

     10         1         3          D          I      -1084.7
0.0       -21.1        0.0        0.0      778.3     -778.3
                                          J      -1661.1
0.0       -21.1        0.0        0.0     -410.4      410.4

                                          L          I     -108.8        0.0
     -3.2        0.0        0.0       99.2      -99.2
                                          J      -108.8
0.0       -3.2        0.0        0.0      -82.4       82.4

                                      W-TR          I      252.6
0.0       -56.1        0.0        0.0     1607.6    -1607.6
                                          J      252.6        0.0
    -80.1        0.0        0.0    -2235.9     2235.9

                                         WL          I       31.5
0.0       -6.8        0.0        0.0      166.2     -166.2
                                          J       31.5        0.0
     -6.8        0.0        0.0     -216.9      216.9

                                      W-LO          I        0.0
-43.1        0.0     -124.1      124.1        0.0        0.0
                                          J        0.0      -67.0
      0.0    -3230.2     3230.2        0.0        0.0

     11         1         3          D          I      -1084.7
0.0        21.1        0.0        0.0      -778.3     778.3
                                          J      -1661.1
0.0        21.1        0.0        0.0      410.4     -410.4

                                          L          I     -182.3        0.0
      3.2        0.0        0.0     -138.6      138.6
                                          J      -182.3
0.0        3.2        0.0        0.0       43.0      -43.0

                                      W-TR          I      -252.6
0.0       -61.6        0.0        0.0     1645.9    -1645.9
                                          J      -252.6
0.0       -73.6        0.0        0.0    -2170.0     2170.0

                                         WL          I       -31.5
0.0       -6.8        0.0        0.0      166.2     -166.2
                                          J       -31.5        0.0
     -6.8        0.0        0.0     -216.9      216.9

                                      W-LO          I        0.0
-43.1        0.0     -124.1      124.1        0.0        0.0
                                          J        0.0      -67.0
      0.0    -3230.2     3230.2        0.0        0.0
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BEAM ELEMENT STRESSES MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

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[ SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION SHAPE : SB ]
[ SECTION SIZE ] H:1.588 B:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 9 | AXL | D | 1 | I | 0.0 | 0.0 | -66.2 | 0.0 | 0.0 | 150.1 | -150.1 |
| 9 | SHY | W-LO | 1 | I | 0.0 | 5.5 | 0.0 | -7.9 | 7.9 | 0.0 | 0.0 |
| 1 | SHZ | D | 1 | J | 0.0 | 0.0 | 66.2 | 0.0 | 0.0 | 150.1 | -150.1 |
| 1 | BY+ | D | 1 | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1 | BY- | W-LO | 1 | J | 0.0 | -5.5 | 0.0 | -7.9 | 7.9 | 0.0 | 0.0 |
| 1 | BZ+ | D | 1 | J | 0.0 | 0.0 | 66.2 | 0.0 | 0.0 | 150.1 | -150.1 |
| 1 | BZ- | D | 1 | I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 1 | AXL | W-TR | 1 | I | -5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1 | SHY | W-LO | 1 | J | 0.0 | -5.5 | 0.0 | -7.9 | 7.9 | 0.0 | 0.0 |
| 9 | SHZ | D | 1 | I | 0.0 | 0.0 | -66.2 | 0.0 | 0.0 | 150.1 | -150.1 |
| 1 | BY+ | W-LO | 1 | J | 0.0 | -5.5 | 0.0 | -7.9 | 7.9 | 0.0 | 0.0 |
| 1 | BY- | W-TR | 1 | I | -5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1 | BZ+ | W-TR | 1 | I | -5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1 | BZ- | D | 1 | J | 0.0 | 0.0 | 66.2 | 0.0 | 0.0 | 150.1 | -150.1 |

[ SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION SHAPE : SB ]
[ SECTION SIZE ] H:2.4 B:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 7 | AXL | W-TR | 1 | J | 34.4 | 0.0 | 0.0 | 0.0 | 0.0 | 272.7 | -272.7 |
| 4 | SHY | W-LO | 1 | I | 0.0 | 24.7 | 0.0 | -24.5 | 24.5 | 0.0 | 0.0 |
| 3 | SHZ | D | 1 | J | 0.0 | 0.0 | 1230.0 | 0.0 | 0.0 | 2200.2 | -2200.2 |
| 4 | BY+ | W-LO | 1 | J | 0.0 | 13.5 | 0.0 | 13.7 | -13.7 | 0.0 | 0.0 |
| 6 | BY- | W-LO | 1 | J | 0.0 | -24.8 | 0.0 | -24.5 | 24.5 | 0.0 | 0.0 |
| 3 | BZ+ | D | 1 | J | 0.0 | 0.0 | 1230.0 | 0.0 | 0.0 | 2200.2 | -2200.2 |
| 4 | BZ- | W-TR | 1 | I | -3.4 | 0.0 | 310.0 | 0.0 | 0.0 | -1403.6 | 1403.6 |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 3 | AXL | W-TR | 1 | I | -37.8 | 0.0 | 0.0 | 0.0 | 0.0 | -272.7 | 272.7 |
| 6 | SHY | W-LO | 1 | J | 0.0 | -24.8 | 0.0 | -24.5 | 24.5 | 0.0 | 0.0 |
| 7 | SHZ | D | 1 | I | 0.0 | 0.0 | -1230.0 | 0.0 | 0.0 | 2200.2 | -2200.2 |
| 6 | BY+ | W-LO | 1 | J | 0.0 | -24.8 | 0.0 | -24.5 | 24.5 | 0.0 | 0.0 |
| 4 | BY- | W-LO | 1 | J | 0.0 | 13.5 | 0.0 | 13.7 | -13.7 | 0.0 | 0.0 |
| 4 | BZ+ | W-TR | 1 | I | -3.4 | 0.0 | 310.0 | 0.0 | 0.0 | -1403.6 | 1403.6 |
| 3 | BZ- | D | 1 | J | 0.0 | 0.0 | 1230.0 | 0.0 | 0.0 | 2200.2 | -2200.2 |

[ SECTION NAME : 기둥 , SECTION ID : 3 , SECTION SHAPE : SR ]
[ SECTION SIZE ] D:2.5
** MAX

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 10 | AXL | W-TR | 1 | J | 252.6 | 0.0 | -80.1 | 0.0 | 0.0 | -2235.9 | 2235.9 |
| 10 | SHY | D | 1 | I | -1084.7 | 0.0 | -21.1 | 0.0 | 0.0 | 778.3 | -778.3 |
| 11 | SHZ | D | 1 | I | -1084.7 | 0.0 | 21.1 | 0.0 | 0.0 | -778.3 | 778.3 |
| 10 | BY+ | W-TR | 1 | I | 252.6 | 0.0 | -56.1 | 0.0 | 0.0 | 1607.6 | -1607.6 |
| 10 | BY- | W-LO | 1 | J | 0.0 | -67.0 | 0.0 | -3230.2 | 3230.2 | 0.0 | 0.0 |
| 11 | BZ+ | W-TR | 1 | I | -252.6 | 0.0 | -61.6 | 0.0 | 0.0 | 1645.9 | -1645.9 |
| 10 | BZ- | W-TR | 1 | J | 252.6 | 0.0 | -80.1 | 0.0 | 0.0 | -2235.9 | 2235.9 |

** MIN

| ELEM | COM | LC | PT | AXIAL | SHEAR-y | SHEAR-Z | (+y)-BENDING-(-y) | (+z)-BENDING-(-z) |
|---|---|---|---|---|---|---|---|---|
| 10 | AXL | D | 1 | J | -1661.1 | 0.0 | -21.1 | 0.0 | 0.0 | -410.4 | 410.4 |
| 10 | SHY | W-LO | 1 | J | 0.0 | -67.0 | 0.0 | -3230.2 | 3230.2 | 0.0 | 0.0 |
| 10 | SHZ | W-TR | 1 | J | 252.6 | 0.0 | -80.1 | 0.0 | 0.0 | -2235.9 | 2235.9 |
| 10 | BY+ | W-LO | 1 | J | 0.0 | -67.0 | 0.0 | -3230.2 | 3230.2 | 0.0 | 0.0 |
| 10 | BY- | D | 1 | J | -1661.1 | 0.0 | -21.1 | 0.0 | 0.0 | -410.4 | 410.4 |
| 10 | BZ+ | W-TR | 1 | J | 252.6 | 0.0 | -80.1 | 0.0 | 0.0 | -2235.9 | 2235.9 |
| 11 | BZ- | W-TR | 1 | I | -252.6 | 0.0 | -61.6 | 0.0 | 0.0 | 1645.9 | -1645.9 |