

PROJECT TITLE :

	Company		Client	
	Author	Microsoft	File Name	을하교 하부구조(부산)

; MIDAS/Civil Text(MCT) File.
; Date : 2016/1/24

*VERSION

8.4.5

*UNIT ; Unit System

; FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, C

*PROJINFO ; Project Information

USER=Microsoft
ADDRESS=Microsoft

*REBAR-MATL-CODE ; Rebar Material Code

; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD300, KS01-Civil(RC), SD300

*NODE ; Nodes

; iNO, X, Y, Z
1, 0, 0, 0
2, 5.6, 0, 0
3, 11.2, 0, 0
4, 0, 0, 5.2
5, 5.6, 0, 5.2
6, 11.2, 0, 5.2
7, 0, 0, 6.45
8, 5.6, 0, 6.45
9, 11.2, 0, 6.45
10, 12.2, 0, 6.45
11, 12.871, 0, 6.45
12, 14.2, 0, 6.45
13, -1, 0, 6.45
14, -1.671, 0, 6.45
15, -3, 0, 6.45
24, 5.6, 0, 7.7
25, 12.871, 0, 7.7
26, -1.671, 0, 7.7
27, 1, 0, 6.45
28, 2, 0, 6.45
29, 4.6, 0, 6.45
30, 3.6, 0, 6.45
31, 10.2, 0, 6.45

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32, 9.2, 0, 6.45
33, 6.6, 0, 6.45
34, 7.6, 0, 6.45
35, 0, 0, 1.04
36, 0, 0, 2.08
37, 0, 0, 3.12
38, 0, 0, 4.16
39, 5.6, 0, 1.04
40, 5.6, 0, 2.08
41, 5.6, 0, 3.12
42, 5.6, 0, 4.16
43, 11.2, 0, 1.04
44, 11.2, 0, 2.08
45, 11.2, 0, 3.12
46, 11.2, 0, 4.16
47, 0, 0, 2.6
48, 5.6, 0, 2.6
49, 11.2, 0, 2.6

*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, LCAXIS ; 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
)

1, BEAM , 1, 1, 1, 35, 0, 0
2, BEAM , 1, 1, 2, 39, 0, 0
3, BEAM , 1, 1, 3, 43, 0, 0
4, BEAM , 1, 2, 15, 14, 0, 0
5, BEAM , 1, 2, 14, 13, 0, 0
6, BEAM , 1, 2, 12, 11, 0, 0
7, BEAM , 1, 2, 11, 10, 0, 0
8, BEAM , 1, 3, 27, 28, 0, 0
9, BEAM , 1, 3, 31, 32, 0, 0
10, BEAM , 1, 3, 29, 30, 0, 0
11, BEAM , 1, 3, 33, 34, 0, 0
12, BEAM , 1, 5, 13, 7, 0, 0
13, BEAM , 1, 5, 7, 27, 0, 0
14, BEAM , 1, 5, 31, 9, 0, 0
15, BEAM , 1, 5, 9, 10, 0, 0
16, BEAM , 1, 5, 29, 8, 0, 0
17, BEAM , 1, 5, 8, 33, 0, 0
18, BEAM , 1, 4, 28, 30, 0, 0
19, BEAM , 1, 4, 34, 32, 0, 0

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```

20, BEAM , 1, 1, 35, 36, 0, 0
21, BEAM , 1, 1, 36, 47, 0, 0
22, BEAM , 1, 1, 37, 38, 0, 0
23, BEAM , 1, 1, 38, 4, 0, 0
24, BEAM , 1, 1, 39, 40, 0, 0
25, BEAM , 1, 1, 40, 48, 0, 0
26, BEAM , 1, 1, 41, 42, 0, 0
27, BEAM , 1, 1, 42, 5, 0, 0
28, BEAM , 1, 1, 43, 44, 0, 0
29, BEAM , 1, 1, 44, 49, 0, 0
30, BEAM , 1, 1, 45, 46, 0, 0
31, BEAM , 1, 1, 46, 6, 0, 0
32, BEAM , 1, 1, 47, 37, 0, 0
33, BEAM , 1, 1, 48, 41, 0, 0
34, BEAM , 1, 1, 49, 45, 0, 0

```

*MATERIAL ; Material

```
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]
```

```
; STEEL, CONC, USER
```

```
; 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 ; 0rt  
hotropic
```

```
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
```

```
; 1, CONC , C24 , 0, 0, , C, NO, 0.05, 1, KS01-Civil(RC), KCI-2012 ,  
C24
```

*MATL-COLOR

```
; iMAT, W_R, W_G, W_B, 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
```

*SECTION ; Section

```
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st l
```

```
ine - DB/USER
```

```
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL ; 1st l
```

```
ine - VALUE
```

```
; AREA, ASy, ASz, lxx, lyy, lzz ; 2nd l
```

```
ine
```

```
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz ; 3rd l
```

```
ine
```

```
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz ; 4th l
```

```
ine
```

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```
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st l
```

```
ine - SRC
```

```
; D1, D2, [SRC] ; 2nd l
```

```
ine
```

```
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2 ; 1st l
```

```
ine - COMBINED
```

```
; 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 ; 1st l
```

```
ine - TAPERED
```

```
; DB, NAME1, NAME2 ; 2nd l
```

```
ine(STYPE=DB)
```

```
; [DIM1], [DIM2] ; 2nd l
```

```
ine(STYPE=USER)
```

```
; D11, D12, D13, D14, D15, D16, D17, D18 ; 2nd l
```

```
ine(STYPE=VALUE)
```

```
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1 ; 3rd l
```

```
ine(STYPE=VALUE)
```

```
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th l
```

```
ine(STYPE=VALUE)
```

```
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2 ; 5th l
```

```
ine(STYPE=VALUE)
```

```
; D21, D22, D23, D24, D25, D26, D27, D28 ; 6th l
```

```
ine(STYPE=VALUE)
```

```
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2 ; 7th l
```

```
ine(STYPE=VALUE)
```

```
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ; 8th l
```

```
ine(STYPE=VALUE)
```

```
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2 ; 9th l
```

```
ine(STYPE=VALUE)
```

```
; OPT1, OPT2, [JOINT] ; 2nd l
```

```
ine(STYPE=PSC)
```

```
; ELAST, DEN, POIS, POIC, THERMAL ; 2nd l
```

```
ine(STYPE=PSC-CMPW)
```

```
; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd l
```

```
ine(STYPE=PSC)
```

```
; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] ; 3rd l
```

```
ine(STYPE=PSC-CMPW)
```

```
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; 4th l
```

```
ine(STYPE=PSC)
```

```
; [SIZE-A]-i ; 5th l
```

```
ine(STYPE=PSC)
```

```
; [SIZE-B]-i ; 6th l
```

```
ine(STYPE=PSC)
```

```
; [SIZE-C]-i ; 7th l
```

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```
ine(STYPE=PSC)
; [SIZE-D]-i ; 8th I
ine(STYPE=PSC)
; [SIZE-A]-j ; 9th I
ine(STYPE=PSC)
; [SIZE-B]-j ; 10th
ine(STYPE=PSC)
; [SIZE-C]-j ; 11th
ine(STYPE=PSC)
; [SIZE-D]-j ; 12th
ine(STYPE=PSC)
; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ; 2nd I
ine(STYPE=CMP-B/I)
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i ; 3rd I
ine(STYPE=CMP-B/I)
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 4th I
ine(STYPE=CMP-B/I)
; N1, N2, Hr, Hr2, tr1, tr2 ; 5th I
ine(STYPE=CMP-B)
; GN, CTC, Bc, Tc, Hh, EgdBsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd I
ine(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd I
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-i ; 4th I
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-i ; 5th I
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-i ; 6th I
ine(STYPE=CMP-CI/CT)
; [SIZE-D]-i ; 7th I
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-j ; 8th I
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-j ; 9th I
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-j ; 10th
ine(STYPE=CMP-CI/CT)
; [SIZE-D]-j ; 11th
ine(STYPE=CMP-CI/CT)
; iSEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2 ; 1st I
ine - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Befor
e (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After
(STYPE2)
```

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```
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd I
ine
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd I
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, Elong, Esh ; 4th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd I
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, Elong, Esh ; 3rd I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd I
ine
; [SIZE-A] ; 3rd I
ine
; [SIZE-B] ; 4th I
ine
; [SIZE-C] ; 5th I
ine
; [SIZE-D] ; 6th I
ine
; SW, GN, CTC, Bc, Tc, Hh, EgdBsb, DgdDsb, Pgd, Psb ; 7th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - PSC
; OPT1, OPT2, [JOINT] ; 2nd I
ine
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd I
ine
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th I
ine
; [SIZE-A] ; 5th I
ine
; [SIZE-B] ; 6th I
ine
; [SIZE-C] ; 7th I
ine
; [SIZE-D] ; 8th I
ine
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
```

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; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC] : 1, DB, 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, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2] : OFFSET, iCENT, iREF, iHORZ, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 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
; [CMPWEB] : EFD, LRF, A, B, H, T
1, DBUSER , 기둥 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2, 0, 0, 0,
0, 0, 0, 0, 0, 0
2, TAPERED , COPING(좌) , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R 1.5, 2.3, 0, 0, 0, 0, 0, 0, 2.5, 2.3, 0, 0, 0, 0, 0, 0
3, TAPERED , COPING(중앙) , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R 2.5, 2.3, 0, 0, 0, 0, 0, 0, 2, 2.3, 0, 0, 0, 0, 0, 0
4, DBUSER , 중앙 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2, 2.3, 0, 0,
, 0, 0, 0, 0, 0, 0
5, DBUSER , 기둥위중앙 , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.5, 2.3, 0,
0, 0, 0, 0, 0, 0

*SECT-COLOR

; iSEC, W_R, W_G, W_B, 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
4, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
5, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5

*DGN-SECT

; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2] ; 1st I
ine - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL ; 1st I

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ine - VALUE
; AREA, ASy, ASz, Ixx, Iyy, Izz ; 2nd I
ine
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz ; 3rd I
ine
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz ; 4th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st I
ine - SRC
; D1, D2, [SRC] ; 2nd I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2 ; 1st I
ine - COMBINED
; 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 ; 1st I
ine - TAPERED
; DB, NAME1, NAME2 ; 2nd I
ine(STYPE=DB)
; [DIM1], [DIM2] ; 2nd I
ine(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18 ; 2nd I
ine(STYPE=VALUE)
; AREA1, ASy1, ASz1, Ixx1, Iyy1, Izz1 ; 3rd I
ine(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th I
ine(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2 ; 5th I
ine(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27, D28 ; 6th I
ine(STYPE=VALUE)
; AREA2, ASy2, ASz2, Ixx2, Iyy2, Izz2 ; 7th I
ine(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ; 8th I
ine(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2 ; 9th I
ine(STYPE=VALUE)
; OPT1, OPT2, [JOINT] ; 2nd I
ine(STYPE=PSC)
; ELAST, DEN, POIS, POIC, THERMAL ; 2nd I
ine(STYPE=PSC-CMPW)
; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd I
ine(STYPE=PSC)
; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J] ; 3rd I
ine(STYPE=PSC-CMPW)

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```
;      bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J]      ; 4th I
ine(STYPE=PSC)
;      [SIZE-A]-i      ; 5th I
ine(STYPE=PSC)
;      [SIZE-B]-i      ; 6th I
ine(STYPE=PSC)
;      [SIZE-C]-i      ; 7th I
ine(STYPE=PSC)
;      [SIZE-D]-i      ; 8th I
ine(STYPE=PSC)
;      [SIZE-A]-j      ; 9th I
ine(STYPE=PSC)
;      [SIZE-B]-j      ; 10th
line(STYPE=PSC)
;      [SIZE-C]-j      ; 11th
line(STYPE=PSC)
;      [SIZE-D]-j      ; 12th
line(STYPE=PSC)
;      GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S      ; 2nd I
ine(STYPE=CMP-B/I)
;      SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i      ; 3rd I
ine(STYPE=CMP-B/I)
;      SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j      ; 4th I
ine(STYPE=CMP-B/I)
;      N1, N2, Hr, Hr2, tr1, tr2      ; 5th I
ine(STYPE=CMP-B)
;      GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j      ; 2nd I
ine(STYPE=CMP-CI/CT)
;      OPT1, OPT2, [JOINT]      ; 3rd I
ine(STYPE=CMP-CI/CT)
;      [SIZE-A]-i      ; 4th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-B]-i      ; 5th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-C]-i      ; 6th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-D]-i      ; 7th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-A]-j      ; 8th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-B]-j      ; 9th I
ine(STYPE=CMP-CI/CT)
;      [SIZE-C]-j      ; 10th
line(STYPE=CMP-CI/CT)
;      [SIZE-D]-j      ; 11th
```

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```
line(STYPE=CMP-CI/CT)
; iSEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2      ; 1st I
ine - CONSTRUCT
;      SHAPE, ...(same with other type data from shape)      ; Before
e (STYPE1)
;      SHAPE, ...(same with other type data from shape)      ; After
(STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE      ; 1st I
ine - COMPOSITE-SB
;      Hw, tw, B, Bf1, tf1, B2, Bf2, tf2      ; 2nd I
ine
;      N1, N2, Hr, Hr2, tr1, tr2      ; 3rd I
ine
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh      ; 4th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE      ; 1st I
ine - COMPOSITE-SI
;      Hw, tw, B, tf1, B2, tf2      ; 2nd I
ine
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh      ; 3rd I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE      ; 1st I
ine - COMPOSITE-CI/CT
;      OPT1, OPT2, [JOINT]      ; 2nd I
ine
;      [SIZE-A]      ; 3rd I
ine
;      [SIZE-B]      ; 4th I
ine
;      [SIZE-C]      ; 5th I
ine
;      [SIZE-D]      ; 6th I
;      SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb      ; 7th I
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE      ; 1st I
ine - PSC
;      OPT1, OPT2, [JOINT]      ; 2nd I
ine
;      bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE      ; 3rd I
ine
;      bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF]      ; 4th I
ine
;      [SIZE-A]      ; 5th I
ine
```

PROJECT TITLE :

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; [SIZE-B] ; 6th line
; [SIZE-C] ; 7th line
; [SIZE-D] ; 8th line
ine
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC] : 1, DB, 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, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, DBUSER, 기동, CC, 0, 0, 0, 0, 0, 0, YES, SR, 2, 2, 0, 0, 0,
0, 0, 0, 0, 0
2, TAPERED, COPING(좌), CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB, 1, 1, USE
R
1.5, 2.3, 0, 0, 0, 0, 0, 0, 2.5, 2.3, 0, 0, 0, 0, 0, 0
3, TAPERED, COPING(중앙), CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB, 1, 1, USE
R
2.5, 2.3, 0, 0, 0, 0, 0, 0, 2, 2.3, 0, 0, 0, 0, 0, 0
4, DBUSER, 중앙, CC, 0, 0, 0, 0, 0, 0, YES, SB, 2, 2, 2.3, 0, 0,
, 0, 0, 0, 0, 0, 0
5, DBUSER, 기동위중앙, CC, 0, 0, 0, 0, 0, 0, YES, SB, 2, 2.5, 2.3, 0,
0, 0, 0, 0, 0, 0, 0

*TS-GROUP : Tapered Section Group

; NAME, ELEM_LIST, ZVAR, ZEXP, ZFROM, ZDIST, YVAR, YEXP, YFROM, YDIST, iSCM
coping, 4to7, LINEAR, ., ., LINEAR, ., ., 0

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*STLDCASE : Static Load Cases

; LCNAME, LCTYPE, DESC

자중, D,
고정하중-상부, D,
활하중-상부, D,
풍하중-상부, D,
풍하중-코핑, D,
풍하중-기동, D,
풍하중-활하중, D,
지점침하, D,
온도하중, D,

*DGN-CONC : Concrete Design Code

; CODE=CODE, RHOC, RHOR, RHOW, MRF, SHR-RATIO { , METHOD, A1, A2 }

; line 1

; [ACI318-89] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V

; line 2

; [ACI318-95] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V

; line 2

; [ACI318-99] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V

; line 2

; [ACI318-02] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB

; line 2

; [ACI318-05] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB

; line 2

; [ACI318-08] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW

ALL, BNDR-MTHD, CD, IE; line 2

; [ACI318-11] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW

ALL, BNDR-MTHD, CD, IE; line 2

; [AIK-USD94] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V

; line 2

; [TWN-USD92] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, bTOR, TRFT, SCWB

; line 2

; [TWN-USD100] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, bTOR, TRFT, SCWB

; line 2

; [KCI-USD99] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB

; line 2

; [KCI-USD03] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB

; line 2

; [KCI-USD07] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW

ALL, BNDR-MTHD, CD, IE; line 2

; [KCI-USD12] : bSPECIAL, PHI-B, PHI-T, PHIC1, PHI-C2, PHI-V, TLF, SLF, TSLCB, SPW

ALL, BNDR-MTHD, CD, IE, EXPOSURE; line 2

; [BS8110-97] : GAMMA-MC, GAMMA-MS, GAMMA-MV

	Company		Client	
	Author	Microsoft	File Name	을하고 허부구조(부산)

Modeling, Integrated Design & Analysis Software
<http://www.HIDASUser.com>
 HIDA S/CMLV 8.4.5

Print Date/Time : 01/24/2016 03:40

	Company		Client	
	Author	Microsoft	File Name	윌하고 허부구조(부산)

Modeling, Integrated Design & Analysis Software
<http://www.HidasUser.com>
 Hidas/CMLV 8.4.5

Print Date/Time : 01/24/2016 03:40

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*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, 0, 0, -2941.87, 0, 0, 0,
25, 0, 0, -3486.57, 0, 0, 0,
26, 0, 0, -3092.36, 0, 0, 0,

; End of data for load case [고정하중-상부] -----

*USE-STLD, 활하중-상부

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, 0, 0, -994.496, 0, 0, 0,
25, 0, 0, -1130.74, 0, 0, 0,
26, 0, 0, -1085.13, 0, 0, 0,

; End of data for load case [활하중-상부] -----

*USE-STLD, 풍하중-상부

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, -225.657, 0, 0, 0, 0, 0,
25, -225.657, 0, 0, 0, 0, 0,
26, -225.657, 0, 0, 0, 0, 0,

; End of data for load case [풍하중-상부] -----

*USE-STLD, 풍하중-코핑

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
12, -17.25, 0, 0, 0, 0, 0,

; End of data for load case [풍하중-코핑] -----

*USE-STLD, 풍하중-기둥

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
47, -30, 0, 0, 0, 0, 0,
48, -30, 0, 0, 0, 0, 0,
49, -30, 0, 0, 0, 0, 0,

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; End of data for load case [풍하중-기둥] -----

*USE-STLD, 풍하중-활하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, -42.75, 0, 0, 0, -196.222, 0,
25, -42.75, 0, 0, 0, -196.222, 0,
26, -42.75, 0, 0, 0, -196.222, 0,

; End of data for load case [풍하중-활하중] -----

*USE-STLD, 지점침하

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, 0, 0, -271.427, 0, 0, 0,
25, 0, 0, -271.427, 0, 0, 0,
26, 0, 0, -271.427, 0, 0, 0,

; End of data for load case [지점침하] -----

*USE-STLD, 온도하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
24, 0, 87.1641, 0, 0, 0, 0,
25, 0, 87.1641, 0, 0, 0, 0,
26, 0, 87.1641, 0, 0, 0, 0,

; End of data for load case [온도하중] -----

*LOADCOMB ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE ; line 1
; ANAL1, LCNAME1, FACT1, ... ; from line 2
NAME=LC1, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 2.15
NAME=LC2, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 풍하중-상부, 1.3
ST, 풍하중-코핑, 1.3, ST, 풍하중-기둥, 1.3
NAME=LC3, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 1.3
ST, 풍하중-상부, 0.65, ST, 풍하중-코핑, 0.65, ST, 풍하중-기둥, 0.65
ST, 풍하중-활하중, 0.65

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NAME=LC4, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 1.3
ST, 지점침하, -1.3, ST, 온도하중, -1.3
NAME=LC5, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 1.3
ST, 지점침하, 1.3, ST, 온도하중, 1.3
NAME=LC6, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-상부, 1.25
ST, 풍하중-코핑, 1.25, ST, 풍하중-기둥, 1.25, ST, 지점침하, -1.25
ST, 온도하중, -1.25
NAME=LC7, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-상부, 1.25
ST, 풍하중-코핑, 1.25, ST, 풍하중-기둥, 1.25, ST, 지점침하, 1.25
ST, 온도하중, 1.25
NAME=LC8, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 활하중-상부, 1.25
ST, 풍하중-상부, 0.625, ST, 풍하중-코핑, 0.625, ST, 풍하중-기둥, 0.625
ST, 풍하중-활하중, 0.625, ST, 지점침하, -1.25, ST, 온도하중, -1.25
NAME=LC9, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 활하중-상부, 1.25
ST, 풍하중-상부, 0.625, ST, 풍하중-코핑, 0.625, ST, 풍하중-기둥, 0.625
ST, 풍하중-활하중, 0.625, ST, 지점침하, 1.25, ST, 온도하중, 1.25
NAME=최대, CONC, STRENGTH, 0, 1, , 0, 0
CBC, LC1, 1, CBC, LC2, 1, CBC, LC3, 1, CBC, LC4, 1, CBC, LC5, 1
CBC, LC6, 1, CBC, LC7, 1, CBC, LC8, 1, CBC, LC9, 1

*LC-COLOR : Diagram Color for Load Case

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

ST, 자중, 255, 160, 255, 163, 255, 160, 0, 128, 192
ST, 고정하중-상부, 192, 128, 0, 255, 87, 87, 255, 255, 87
ST, 활하중-상부, 146, 0, 255, 210, 210, 210, 93, 255, 87
ST, 풍하중-상부, 163, 255, 160, 85, 192, 0, 255, 0, 192
ST, 풍하중-코핑, 85, 192, 0, 255, 87, 87, 85, 192, 0
ST, 풍하중-기둥, 0, 128, 255, 255, 192, 87, 146, 0, 255
ST, 풍하중-활하중, 192, 72, 0, 78, 0, 255, 128, 192, 0
ST, 지점침하, 255, 128, 0, 210, 210, 210, 255, 192, 87
ST, 온도하중, 255, 192, 87, 93, 255, 87, 128, 192, 0
CBC, LC1, 192, 128, 0, 0, 192, 128, 192, 192, 192
CBC, LC2, 192, 0, 128, 192, 192, 192, 192, 72, 0
CBC, LC3, 192, 192, 192, 0, 192, 192, 210, 210, 210
CBC, LC4, 0, 192, 192, 85, 192, 0, 255, 0, 128
CBC, LC5, 0, 192, 128, 192, 192, 192, 0, 157, 192
CBC, LC6, 0, 128, 57, 255, 0, 192, 0, 128, 255
CBC, LC7, 192, 0, 192, 192, 192, 0, 0, 157, 192

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CBC, LC8, 192, 0, 128, 210, 210, 210, 0, 128, 192
CBC, LC9, 85, 0, 192, 148, 87, 255, 255, 87, 128
CBC, 최대, 128, 192, 0, 255, 87, 87, 85, 0, 192

*MEMBER : Member

; iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
1, 1, NO, 20, 21, 32, 22, 23
2, 2, NO, 24, 25, 33, 26, 27
3, 3, NO, 28, 29, 34, 30, 31

*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-A

SD05

; [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]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
1, CONC, C24, 1, KS01-Civil(RC), C24, NO, 1
, KS-Civil(RC), SD30, SD30, , 16800, NO, 0, 0, , ,
, 0, NO, 1, , , , 0, 0, 0

*LCOM-RCCOL : Load Combination for RC Column

; STRE=ST_LCNAME1, ST_LCNAME2, ST_LCNAME3, ...
; SERV=SE_LCNAME1, SE_LCNAME2, SE_LCNAME3, ...
; GRUP=CG_LCNAME1, CG_LCNAME2, CG_LCNAME3, ...
STRE=LC9, LC8, LC7, LC6, LC5, LC4, LC3, LC2, LC1

*DPAR-RCCOL : Design Parameter for RC Column

; EL_LIST, iXDirBd, iYDirBd, bPosi, bPosj, bPosm, bAutoEq : 1st I
ine
; bAutoDeltans, bAutoDeltas, bShChk, bAutoBd, Rhomax, Cmy, Cnz, : 2nd I
ine
; Dc, Deltansy, Deltansz, Deltasy, Deltasz, Remark : 3rd I
ine
; bCTC, CTC, bBd_NS, Bd_nsy, Bd_nsz, bBd_S, Bd_sy, Bd_sz, bRS, Ry, Rz : 4th I
ine
1to3, 0, 0, YES, NO, NO, YES

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YES, YES, YES, YES, 0.08, 1, 1
0.1, 1, 1, 1, 1,
NO, 0, NO, 0, 0, NO, 0, 0, NO, 0, 0

*SECTION MANAGER-GROUP & PART ; Section Manager - Group & Part
; SECT = NO, bSAMEJ ; lin
e 1
; GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE ; lin
e 2
; ;

; LOOP UTIL (GRPDISIZE, GRPDJSIZE) ;

; GROUPID, GROUPNAME, GROUPTYPE ; lin
e n
; ;

; LOOP UTIL (PARTISIZE, PARTJSIZE) ;

; PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER ; lin
e n
; LINESIZE, LINEINDEX[i]..... ; lin
e n
; ;

SECT=2, YES
0, 0, 0, 0
SECT=3, YES
0, 0, 0, 0

*SECTION MANAGER-STIFFENER ; Section Manager - Stiffener
; SECT = NO, bSAMEJ ; lin
e 1
; STFNISIZE, STFJNSIZE ; lin
e 2
; ;

; LOOP UTIL (STFNISIZE, STFJNSIZE) ;

; TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC ; lin
e n
; STIFFTYPE, dSIZE(0 ~ 20) ; lin
e n
; LINESIZE, LINEINDEX[i]..... ; lin
e n

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; ;

SECT=2, YES
0, 0
SECT=3, YES
0, 0

*ENDDATA