

PROJECT TITLE :

	Company		Client	
	Author	Microsoft	File Name	삼성1교 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, 0, 0, 10
4, 0, 0, 12.1
5, 1.5, 0, 12.1
6, 3.9, 0, 12.1
7, 5.5, 0, 12.1
8, -1.5, 0, 12.1
9, -3.9, 0, 12.1
10, -5.5, 0, 12.1
11, 3.9, 0, 14.2
12, -3.9, 0, 14.2
13, 0, 0, 0.5
14, 0, 0, 1
15, 0, 0, 1.5
16, 0, 0, 2
17, 0, 0, 2.5
18, 0, 0, 3
19, 0, 0, 3.5
20, 0, 0, 4
21, 0, 0, 4.5
22, 0, 0, 5
23, 0, 0, 5.5
24, 0, 0, 6

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25, 0, 0, 6.5
26, 0, 0, 7
27, 0, 0, 7.5
28, 0, 0, 8
29, 0, 0, 8.5
30, 0, 0, 9
31, 0, 0, 9.5

*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, 13, 0, 0
2, BEAM , 1, 2, 10, 9, 0, 0
3, BEAM , 1, 2, 9, 8, 0, 0
4, BEAM , 1, 2, 7, 6, 0, 0
5, BEAM , 1, 2, 6, 5, 0, 0
6, BEAM , 1, 3, 8, 4, 0, 0
7, BEAM , 1, 3, 4, 5, 0, 0
8, BEAM , 1, 1, 13, 14, 0, 0
9, BEAM , 1, 1, 14, 15, 0, 0
10, BEAM , 1, 1, 15, 16, 0, 0
11, BEAM , 1, 1, 16, 17, 0, 0
12, BEAM , 1, 1, 17, 18, 0, 0
13, BEAM , 1, 1, 18, 19, 0, 0
14, BEAM , 1, 1, 19, 20, 0, 0
15, BEAM , 1, 1, 20, 21, 0, 0
16, BEAM , 1, 1, 21, 22, 0, 0
17, BEAM , 1, 1, 22, 23, 0, 0
18, BEAM , 1, 1, 23, 24, 0, 0
19, BEAM , 1, 1, 24, 25, 0, 0
20, BEAM , 1, 1, 25, 26, 0, 0
21, BEAM , 1, 1, 26, 27, 0, 0
22, BEAM , 1, 1, 27, 28, 0, 0
23, BEAM , 1, 1, 28, 29, 0, 0
24, BEAM , 1, 1, 29, 30, 0, 0
25, BEAM , 1, 1, 30, 31, 0, 0
26, BEAM , 1, 1, 31, 2, 0, 0

*MATERIAL : Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]
; STEEL, CONC, USER

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```
; 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 ; Ort
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 I
ine - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL ; 1st I
ine - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ; 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, lxx1, lyy1, lzz1 ; 3rd I
ine(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th I
```

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```
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, lxx2, lyy2, lzz2 ; 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)
; 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
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)
```

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; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd l
ine(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd l
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-i ; 4th l
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-i ; 5th l
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-i ; 6th l
ine(STYPE=CMP-CI/CT)
; [SIZE-D]-i ; 7th l
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-j ; 8th l
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-j ; 9th l
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 l
ine - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Befor
e (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After
(STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd l
ine
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 4th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 3rd l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; [SIZE-A] ; 3rd l

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ine
; [SIZE-B] ; 4th l
ine
; [SIZE-C] ; 5th l
ine
; [SIZE-D] ; 6th l
ine
; SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb ; 7th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - PSC
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd l
ine
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th l
ine
; [SIZE-A] ; 5th l
ine
; [SIZE-B] ; 6th l
ine
; [SIZE-C] ; 7th l
ine
; [SIZE-D] ; 8th l
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, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCE
LL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCE
LL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCE
LL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCE
LL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCE
LL), 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

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; [CMPWEB] : EFD, LRF, A, B, H, T
1, DBUSER , 기동 , CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 3, 0, 0, 0,
0, 0, 0, 0, 0, 0
2, TAPERED , coping , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R
2.2, 2.8, 0, 0, 0, 0, 0, 0, 4.2, 2.8, 0, 0, 0, 0, 0, 0
3, DBUSER , 중앙부 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 4.2, 3.388,
0, 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

*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
ine - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ; 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, lxx1, lyy1, lzz1 ; 3rd I
ine(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; 4th I

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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, lxx2, lyy2, lzz2 ; 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)
; 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 I
ine(STYPE=PSC)
; [SIZE-C]-j ; 11th I
ine(STYPE=PSC)
; [SIZE-D]-j ; 12th I
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)

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```
; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; 2nd l
ine(STYPE=CMP-CI/CT)
; OPT1, OPT2, [JOINT] ; 3rd l
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-i ; 4th l
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-i ; 5th l
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-i ; 6th l
ine(STYPE=CMP-CI/CT)
; [SIZE-D]-i ; 7th l
ine(STYPE=CMP-CI/CT)
; [SIZE-A]-j ; 8th l
ine(STYPE=CMP-CI/CT)
; [SIZE-B]-j ; 9th l
ine(STYPE=CMP-CI/CT)
; [SIZE-C]-j ; 10th
line(STYPE=CMP-CI/CT)
; [SIZE-D]-j ; 11th
line(STYPE=CMP-CI/CT)
; iSEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2 ; 1st l
ine - CONSTRUCT
; SHAPE, ...(same with other type data from shape) ; Befor
e (STYPE1)
; SHAPE, ...(same with other type data from shape) ; After
(STYPE2)
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SB
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd l
ine
; N1, N2, Hr, Hr2, tr1, tr2 ; 3rd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 4th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-SI
; Hw, tw, B, tf1, B2, tf2 ; 2nd l
ine
; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ; 3rd l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - COMPOSITE-CI/CT
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; [SIZE-A] ; 3rd l
```

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```
ine
; [SIZE-B] ; 4th l
ine
; [SIZE-C] ; 5th l
ine
; [SIZE-D] ; 6th l
ine
; SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb ; 7th l
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st l
ine - PSC
; OPT1, OPT2, [JOINT] ; 2nd l
ine
; bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE ; 3rd l
ine
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF] ; 4th l
ine
; [SIZE-A] ; 5th l
ine
; [SIZE-B] ; 6th l
ine
; [SIZE-C] ; 7th l
ine
; [SIZE-D] ; 8th l
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, HUSER1, HUSERJ, iVERT, VUSER1, VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCE
LL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCE
LL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCE
LL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCE
LL), 11(nCEL2)
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCE
LL), 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
```

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; [CMPWEB] : EFD, LRF, A, B, H, T
1, DBUSER , 기둥 , CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 3, 0, 0, 0,
0, 0, 0, 0, 0
2, TAPERED , coping , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1, USE
R
2.2, 2.8, 0, 0, 0, 0, 0, 0, 4.2, 2.8, 0, 0, 0, 0, 0, 0
3, DBUSER , 중앙부 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 4.2, 3.388,
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, 2to5, LINEAR, , , , LINEAR, , , , 0

*STLDCASE : Static Load Cases
; LCNAME, LCTYPE, DESC
자중 , D ,
고정하중-상부, D ,
활하중-상부, L ,
풍하중-coping, W ,
풍하중-기둥, W ,
풍하중-활하중, WL,
온도하중, T ,
지점침하, STL,
풍하중-상부, W ,

*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

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; [KSCE-USD05] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [KSCE-USD96] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [KSCE-RAIL-USE04] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [TWN-BRG-LSD90] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
; line 2
; [JTJ023-85] : GAMMA-C, GAMMA-S, KIND
; line 2
; [CSA-S6-00] : bSPECIAL, PHI-C, PHI-S, KIND
; line 2
; [IRC:21-2000] : GAMMA-C, GAMMA-S
; line 2
; [SNIp 2.05.03-84*] : nBRIDGE, bmb7mb8, mb7mb8Type, mb7, mb8, bmb9, mb9Type, mb9
; line 2
; [SP 35.13330.2011] : nBRIDGE, bmb7mb8, mb7mb8Type, mb7, mb8, bmb9, mb9Type, mb9
; line 2
; Member Check : bBEAM, bCOLM, bBRCE, bWALL, bSLAB, bMAT, bRBEAM, bRCOLM, bBRCE, b
RWALL, bRSLAB, bRMAT, bSBEAM, bCANTIL, bUNDER-BM/COLM
CODE=KSCE-USD05, 0, 0, 0, 1, 0, , ,
NO, 0, 0, 0, 0, 0
YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, 0

*CONSTRAINT : Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
1, 111111,

*ELASTICLINK
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy, DRz, GR
OUP : GEN
; iNO, iNODE1, iNODE2, LINK, ANGLE, bSHEAR, DRy, DRz, GROUP
: RIGID
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, bSHEAR, DRy, DRz, GROUP
: TENS,COMP
; iNO, iNODE1, iNODE2, LINK, ANGLE, (UN)SYM, NUM, DIST1, FORCE1 ... DIST10, FORCE10, D
IR, bSHEAR, DREND1, GROUP ; MULTI LINEAR
1, 9, 12, RIGID, 0, NO, 0.5, 0.5,
2, 6, 11, RIGID, 0, NO, 0.5, 0.5,

*RIGIDLINK : Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
4, 111111, 2,

*USE-STLD, 자중

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

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

*USE-STLD, 고정하중-상부

*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
11, 0, 0, -3270.18, 0, 0, 0,
12, 0, 0, -3619.22, 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
11, 0, 0, -1503.98, 0, 0, 0,
12, 0, 0, -1274.51, 0, 0, 0,

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

*USE-STLD, 풍하중-coping

*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
7, -35.28, 0, 0, 0, 0, 0,

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

*USE-STLD, 풍하중-기동

*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
22, -90, 0, 0, 0, 0, 0,

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

*USE-STLD, 풍하중-활하중

*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
11, -74.25, 0, 0, 0, -74.25, 0,

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12, -74.25, 0, 0, 0, -74.25, 0,

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

*USE-STLD, 온도하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
11, 0, 172.235, 0, 0, 0, 0,
12, 0, 172.235, 0, 0, 0, 0,

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

*USE-STLD, 지점침하

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
11, 0, 0, -92.981, 0, 0, 0,
12, 0, 0, -84.03, 0, 0, 0,

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

*USE-STLD, 풍하중-상부

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
11, -370.975, 0, 0, 0, 0, 0,
12, -370.975, 0, 0, 0, 0, 0,

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

*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-coping, 1.3
ST, 풍하중-기동, 1.3, ST, 풍하중-상부, 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-coping, 0.65, ST, 풍하중-기동, 0.65, ST, 풍하중-활하중, 0.65
ST, 풍하중-상부, 0.65
NAME=LC4, CONC, STRENGTH, 0, 0, , 0, 0

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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, 온도하중, 1.3, ST, 지점침하, 1.3
NAME=LC6, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-coping, 1.25
ST, 풍하중-기동, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, -1.25
ST, 지점침하, -1.25
NAME=LC7, CONC, STRENGTH, 0, 0, , 0, 0
ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-coping, 1.25
ST, 풍하중-기동, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, 1.25
ST, 지점침하, 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-coping, 0.625, ST, 풍하중-기동, 0.625
ST, 풍하중-활하중, 0.625, ST, 풍하중-상부, 0.625, ST, 온도하중, -1.25
ST, 지점침하, -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-coping, 0.625, ST, 풍하중-기동, 0.625
ST, 풍하중-활하중, 0.625, ST, 풍하중-상부, 0.625, ST, 온도하중, 1.25
ST, 지점침하, 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, 192, 160, 78, 0, 255, 255, 255, 255
ST, 고정하중-상부, 160, 192, 255, 0, 192, 192, 210, 210, 210
ST, 활하중-상부, 163, 160, 255, 93, 255, 87, 0, 128, 128
ST, 풍하중-coping, 0, 192, 192, 0, 128, 57, 0, 128, 192
ST, 풍하중-기동, 0, 128, 255, 0, 192, 128, 148, 87, 255
ST, 풍하중-활하중, 212, 160, 255, 255, 192, 87, 0, 128, 255
ST, 온도하중, 148, 87, 255, 85, 192, 0, 85, 0, 192
ST, 지점침하, 85, 192, 0, 160, 192, 255, 192, 0, 192
CBC, LC1, 85, 192, 0, 255, 87, 128, 85, 192, 0
ST, 풍하중-상부, 212, 160, 255, 163, 255, 160, 160, 192, 255
CBC, LC2, 0, 128, 255, 0, 128, 192, 85, 0, 192
CBC, LC3, 255, 255, 255, 93, 255, 87, 255, 0, 192
CBC, LC4, 210, 210, 210, 146, 0, 255, 255, 87, 87
CBC, LC5, 163, 160, 255, 0, 128, 192, 255, 160, 255
CBC, LC6, 255, 0, 192, 0, 128, 192, 0, 128, 57

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CBC, LC7, 0, 192, 192, 0, 128, 255, 163, 160, 255
CBC, LC8, 0, 157, 192, 160, 255, 255, 148, 87, 255
CBC, LC9, 0, 128, 57, 255, 0, 128, 0, 128, 57
CBC, 최대, 0, 192, 128, 210, 210, 210, 255, 192, 87

*MEMBER : Member
: iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
1, 1, NO, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, W
25, 26

*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
, , , 0, 0, 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 l
ine
: bAutoDeltans, bAutoDeltas, bShChk, bAutoBd, Rhomax, Cmz, : 2nd l
ine
: Dc, Deltansy, Deltansz, Deltasy, Deltasz, Remark : 3rd l
ine
: bCTC, CTC, bBd_NS, Bd_nsy, Bd_nsz, bBd_S, Bd_sy, Bd_sz, bRS, Ry, Rz : 4th l
ine
1, 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

*CPAR-RCCOL :Checking Parameter for RC Column
: ELEM = ELEM, REMARK : line 1
: POSITIONI = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 2(layer1)
: ... : ...
: DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 6(layer5)
: SBNUM, SBDIST, SBSIZE : line 7
: POSITIONM = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 8(layer1)
: ... : ...
: DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 12(layer5)
: SBNUM, SBDIST, SBSIZE : line 13
: POSITIONJ = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 14(layer1)
: ... : ...
: DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 : line 18(layer5)
: SBNUM, SBDIST, SBSIZE : line 19
: [COLM] : NUM, S1, S2
ELEM = 1,
POSITIONI = 0.1, 88, D32, , 0, , , 0, ,
POSITIONI = 0.2, 82, D29, , 0, , , 0, ,
POSITIONI = 0, 0, , , 0, , , 0, ,
POSITIONI = 0, 0, , , 0, , , 0, ,
POSITIONI = 0, 0, , , 0, , , 0, ,
0, 0,
POSITIONM = 0, 0, , , 0, , , 0, ,
POSITIONM = 0, 0, , , 0, , , 0, ,
POSITIONM = 0, 0, , , 0, , , 0, ,
POSITIONM = 0, 0, , , 0, , , 0, ,
POSITIONM = 0, 0, , , 0, , , 0, ,
0, 0,
POSITIONJ = 0, 0, , , 0, , , 0, ,
POSITIONJ = 0, 0, , , 0, , , 0, ,
POSITIONJ = 0, 0, , , 0, , , 0, ,
POSITIONJ = 0, 0, , , 0, , , 0, ,
POSITIONJ = 0, 0, , , 0, , , 0, ,
0, 0,

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

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

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```
;      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

*SECTION MANAGER-STIFFENER      ; Section Manager - Stiffener
; SECT = NO, bSAMEJ      ; lin
e 1
;      STFNSIZE, STFNSIZE      ; lin
e 2
; .....
;      LOOP UTIL (STFNSIZE, STFNSIZE)      ;
;      TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC      ; lin
e n
;      STIFFTYPE, dSIZE(0 ~ 20)      ; lin
e n
;      LINESIZE, LINEINDEX[i].....      ; lin
e n
; .....
      SECT=2, YES
0, 0

*ENDDATA
```