PROJECT TITLE :

	Company		Client	
MIDAS	Author	Microsoft	File Name	금호강교_하부(대구)

```
;---------------------------------------------------------------------------
;  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, 19
     3, 0, 0, 20.5
     4, 0.687, 0, 20.5
     5, 1.65, 0, 20.5
     6, 2.15, 0, 20.5
     7, 3.25, 0, 20.5
     8, -0.687, 0, 20.5
     9, -1.65, 0, 20.5
    10, -2.15, 0, 20.5
    11, -3.25, 0, 20.5
    12, 2.15, 0, 22
    13, -2.15, 0, 22
    14, 0, 0, 1
    15, 0, 0, 2
    16, 0, 0, 3
    17, 0, 0, 4
    18, 0, 0, 5
    19, 0, 0, 6
    20, 0, 0, 7
    21, 0, 0, 8
    22, 0, 0, 9
    23, 0, 0, 10
```


PROJECT TITLE :

	Company		Client	
MIDAS	Author	Microsoft	File Name	금호강교_하부(대구)

```
    24, 0, 0, 11
    25, 0, 0, 12
    26, 0, 0, 13
    27, 0, 0, 14
    28, 0, 0, 15
    29, 0, 0, 16
    30, 0, 0, 17
    31, 0, 0, 18
    32, 0, 0, 9.5
    33, 1.32, 0, 20.5

*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,   14,    0,    0
     2, BEAM  ,    1,    2,   11,   10,    0,    0
     3, BEAM  ,    1,    2,   10,    9,    0,    0
     4, BEAM  ,    1,    2,    7,    6,    0,    0
     5, BEAM  ,    1,    2,    6,    5,    0,    0
     6, BEAM  ,    1,    3,    9,    8,    0,    0
     7, BEAM  ,    1,    3,    5,   33,    0,    0
     8, BEAM  ,    1,    4,    8,    3,    0,    0
     9, BEAM  ,    1,    4,    3,    4,    0,    0
    10, BEAM  ,    1,    1,   14,   15,    0,    0
    11, BEAM  ,    1,    1,   15,   16,    0,    0
    12, BEAM  ,    1,    1,   16,   17,    0,    0
    13, BEAM  ,    1,    1,   17,   18,    0,    0
    14, BEAM  ,    1,    1,   18,   19,    0,    0
    15, BEAM  ,    1,    1,   19,   20,    0,    0
    16, BEAM  ,    1,    1,   20,   21,    0,    0
    17, BEAM  ,    1,    1,   21,   22,    0,    0
    18, BEAM  ,    1,    1,   22,   32,    0,    0
    19, BEAM  ,    1,    1,   23,   24,    0,    0
    20, BEAM  ,    1,    1,   24,   25,    0,    0
    21, BEAM  ,    1,    1,   25,   26,    0,    0
    22, BEAM  ,    1,    1,   26,   27,    0,    0
    23, BEAM  ,    1,    1,   27,   28,    0,    0
    24, BEAM  ,    1,    1,   28,   29,    0,    0
    25, BEAM  ,    1,    1,   29,   30,    0,    0
    26, BEAM  ,    1,    1,   30,   31,    0,    0
    27, BEAM  ,    1,    1,   31,    2,    0,    0
```

PROJECT TITLE :

MIDAS	Company		Client	
	Author	Microsoft	File Name	금호강교_하부(대구)

```
    28, BEAM  ,    1,     1,    32,    23,     0,     0
    29, BEAM  ,    1,     3,    33,     4,     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   ; 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 l
ine - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1, ..., D8, iCEL              ; 1st l
ine - VALUE
;       AREA, ASy, ASz, Ixx, Iyy, Izz                                         ; 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
; 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
```


PROJECT TITLE :

MIDAS	Company		Client	
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```
ine(STYPE=USER)
;       D11, D12, D13, D14, D15, D16, D17, D18                                ; 2nd l
ine(STYPE=VALUE)
;       AREA1, ASy1, ASz1, Ixx1, Iyy1, Izz1                                   ; 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, Ixx2, Iyy2, Izz2                                   ; 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)
;       bUSERDEFMESHSIZE, MESHSIZE, 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
ine(STYPE=PSC)
;       [SIZE-D]-i                                                            ; 8th l
ine(STYPE=PSC)
;       [SIZE-A]-j                                                            ; 9th l
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 l
ine(STYPE=CMP-B/I)
```

PROJECT TITLE :

MIDAS	Company		Client	
	Author	Microsoft	File Name	금호강교_하부(대구)

```
;       SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i                 ; 3rd l
ine(STYPE=CMP-B/I)
;       SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j                 ; 4th l
ine(STYPE=CMP-B/I)
;       N1, N2, Hr, Hr2, tr1, tr2                                               ; 5th l
ine(STYPE=CMP-B)
;       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
```


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```
ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                       ; 1st l
ine - COMPOSITE-CI/CT
;       OPT1, OPT2, [JOINT]                                                     ; 2nd l
ine
;       [SIZE-A]                                                                ; 3rd l
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
;       bUSERDEFMESHSIZE, MESHSIZE, 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, HUSERI, HUSERJ, iVERT, VUSERI, 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
```

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```
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, 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, YES, SR , 2, 3.3, 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, 3.3, 0, 0, 0, 0, 0, 0,  3, 3.3, 0, 0, 0, 0, 0, 0
    3, DBUSER    , 중앙부1           , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 3.3, 0, 0
, 0, 0, 0, 0, 0, 0
    4, DBUSER    , 중앙부2           , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 3.5, 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
    4, 255,   0,   0,    0, 255,   0,    0,   0, 255,  NO, 0.5

*DGN-SECT
; 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, Ixx, Iyy, Izz                                         ; 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
; 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
```


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```
;       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, Ixx1, Iyy1, Izz1                                   ; 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, Ixx2, Iyy2, Izz2                                   ; 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)
;       bUSERDEFMESHSIZE, MESHSIZE, 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
ine(STYPE=PSC)
;       [SIZE-D]-i                                                            ; 8th l
ine(STYPE=PSC)
;       [SIZE-A]-j                                                            ; 9th l
ine(STYPE=PSC)
;       [SIZE-B]-j                                                            ; 10th
line(STYPE=PSC)
;       [SIZE-C]-j                                                            ; 11th
line(STYPE=PSC)
;       [SIZE-D]-j                                                            ; 12th
```

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```
line(STYPE=PSC)
;       GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S        ; 2nd l
ine(STYPE=CMP-B/I)
;       SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i                ; 3rd l
ine(STYPE=CMP-B/I)
;       SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j                ; 4th l
ine(STYPE=CMP-B/I)
;       N1, N2, Hr, Hr2, tr1, tr2                                              ; 5th l
ine(STYPE=CMP-B)
;       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
```


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;       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
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
;       bUSERDEFMESHSIZE, MESHSIZE, 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, HUSERI, HUSERJ, iVERT, VUSERI, 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)
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; [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, 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, YES, SR , 2, 3.3, 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, 3.3, 0, 0, 0, 0, 0, 0,  3, 3.3, 0, 0, 0, 0, 0, 0
    3, DBUSER    , 중앙부1           , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 3.3, 0, 0
, 0, 0, 0, 0, 0, 0, 0
    4, DBUSER    , 중앙부2           , CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 3, 3.5, 0, 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, D ,
   풍하중-coping, W ,
   풍하중-기둥, W ,
   풍하중-활하중, WL,
   온도하중, WL,
   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
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 ; 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
 ; line 2
; [EUROCODE2]     : GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, iSCODE
 ; line 2
; [EUROCODE2:04]  : GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, ALPHACC, iSCODE,
 ; line 2
;                   bRULE, WEAK-FACT, iDUC, GAMMA-RD-B, GAMMA-RD-C, S-GRUP
 ; line 2
;                   FRAMETYPE, AUA1, SPLCK, SOILFACTOR, TB, TC, TD, AGR, I, DAMPINGRAT
, BCJOINT, NTC2008, UF, GAMMA-RD-W, GAMMA-RD-J ; line 2
;                   STRUT-ANG, bBEHAVIOR-FACT, BEHAVIOR-FACT-VALUE, iNTC, bVCWALL, bVC
COLM, dPHIEF, bAUTOA, bAUTOC, A, B, C          ; line 2
; [EUROCODE2-2:05]: GAMMA-CF, GAMMA-CA, GAMMA-SF, GAMMA-SA, GAMMA_CL, GAMMA_SL, ALPHAC
C, iSCODE, STRUT-ANG,; line 2
; [IS456:2000]    : bSPECIAL, GAMMA-C, GAMMA-S, FOS, SubRex
 ; line 2
; [GB50010-02]    : bSPECIAL, GAMMA-C, GAMMA-S, KIND, iSlabType
 ; line 2
; [GB50010-10]    : bSPECIAL, GAMMA-C, GAMMA-S, KIND, iSlabType, bTOR, TRFT
 ; line 2
; [CSA-A23.3-94]  : bSPECIAL, PHI-C, PHI-S, PHI-M
 ; line 2
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; [AIK-WSD2K]     : bSPECIAL
 ; line 2
; [AIJ-WSD99]     : bSPECIAL, KIND
 ; line 2
; [AASHTO-LRFD12] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V, KIND
 ; line 2
; [AASHTO-LRFD02] : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V, KIND
 ; line 2
; [AASHTO-LFD96]  : bSPECIAL, PHI-B, PHI-T, PHI-C1, PHI-C2, PHI-V
 ; line 2
; [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, bRBRCE, 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, 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
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```
; iNO, iNODE1, iNODE2, LINK, ANGLE, (UN)SYM, NUM, DIST1, FORCE1 ... DIST10, FORCE10, D
IR, bSHEAR, DRENDI, GROUP ; MULTI LINEAR
     1,    10,    13, RIGID,     0, NO, 0.5, 0.5,
     2,     6,    12, RIGID,     0, NO, 0.5, 0.5,

*MEMBERTYPE    ; Modify Member Type
; ELEM_LIST, TYPE, SUBTYPE
   1 10to28, COLUMN, 0

*RIGIDLINK    ; Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
     3, 111111, 2,

*USE-STLD, 고정하중-상부

*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  12, 0, 0, -5636, 0, 0, 0,
  13, 0, 0, -5636, 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
  12, 0, 0, -1480, 0, 0, 0,
  13, 0, 0, -1480, 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, -29.7, 0, 0, 0, 0, 0,

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

*USE-STLD, 풍하중-기둥

*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  32, -94.05, 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
  12, -67.5, 0, 0, 0, -651.92, 0,
  13, -67.5, 0, 0, 0, -651.92, 0,

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

*USE-STLD, 온도하중

*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  12, 0, 105.8, 0, 0, 0, 0,
  13, 0, 105.8, 0, 0, 0, 0,

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

*USE-STLD, 풍하중-상부

*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  12, -383, 0, 0, 0, 0, 0,
  13, -383, 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=ULB01, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 2.15
   NAME=ULB02, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 풍하중-coping, 1.3
        ST, 풍하중-기둥, 1.3, ST, 풍하중-상부, 1.3
   NAME=ULB03, GEN, ACTIVE, 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-기둥, 0.65, ST, 풍하중-활하중, 0.65
        ST, 풍하중-상부, 0.65
   NAME=ULB04, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 1.3
        ST, 온도하중, -1.3
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NAME=ULB05, GEN, ACTIVE, 0, 0, , 0, 0
     ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 온도하중, 1.3
     ST, 활하중-상부, 1.3
NAME=ULB06, GEN, ACTIVE, 0, 0, , 0, 0
     ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-coping, 1.25
     ST, 풍하중-기둥, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, -1.25
NAME=ULB07, GEN, ACTIVE, 0, 0, , 0, 0
     ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-coping, 1.25
     ST, 풍하중-기둥, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, 1.25
NAME=ULB08, GEN, ACTIVE, 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-기둥, 0.625
     ST, 풍하중-활하중, 0.625, ST, 온도하중, -1.25, ST, 풍하중-상부, 0.625
NAME=ULB09, GEN, ACTIVE, 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-기둥, 0.625
     ST, 풍하중-활하중, 0.625, ST, 온도하중, 1.25, ST, 풍하중-상부, 0.625
NAME=최대, GEN, ACTIVE, 0, 1, , 0, 0
     CB, ULB01, 1, CB, ULB02, 1, CB, ULB03, 1, CB, ULB04, 1, CB, ULB05, 1
     CB, ULB06, 1, CB, ULB07, 1, CB, ULB08, 1, CB, ULB09, 1
NAME=cLCB1, CONC, STRENGTH, 0, 0, 1.3D, 0, 0
     ST, 자중, 1.3, ST, 고정하중-상부, 1.3, ST, 활하중-상부, 2.15
NAME=cLCB2, CONC, STRENGTH, 0, 0, 1.3D+1.3W[1], 0, 0
     ST, 고정하중-상부, 1.3, ST, 자중, 1.3, ST, 풍하중-coping, 1.3
     ST, 풍하중-기둥, 1.3, ST, 풍하중-상부, 1.3
NAME=cLCB3, CONC, STRENGTH, 0, 0, 1.3D-1.3W[1], 0, 0
     ST, 고정하중-상부, 1.3, ST, 자중, 1.3, ST, 활하중-상부, 1.3
     ST, 풍하중-coping, 0.65, ST, 풍하중-기둥, 0.65, ST, 풍하중-활하중, 0.65
     ST, 풍하중-상부, 0.65
NAME=cLCB4, CONC, STRENGTH, 0, 0, 1.3D+1.3W[2], 0, 0
     ST, 고정하중-상부, 1.3, ST, 자중, 1.3, ST, 활하중-상부, 1.3
     ST, 온도하중, -1.3
NAME=cLCB5, CONC, STRENGTH, 0, 0, 1.3D-1.3W[2], 0, 0
     ST, 고정하중-상부, 1.3, ST, 활하중-상부, 1.3, ST, 자중, 1.3
     ST, 온도하중, 1.3
NAME=cLCB6, CONC, STRENGTH, 0, 0, 1.3D+1.3W[3], 0, 0
     ST, 자중, 1.25, ST, 고정하중-상부, 1.25, ST, 풍하중-coping, 1.25
     ST, 풍하중-기둥, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, -1.25
NAME=cLCB7, CONC, STRENGTH, 0, 0, 1.3D-1.3W[3], 0, 0
     ST, 고정하중-상부, 1.25, ST, 자중, 1.25, ST, 풍하중-coping, 1.25
     ST, 풍하중-기둥, 1.25, ST, 풍하중-상부, 1.25, ST, 온도하중, 1.25
NAME=cLCB8, CONC, STRENGTH, 0, 0, 1.3D+0.65W[1]+1.3WL, 0, 0
     ST, 고정하중-상부, 1.25, ST, 자중, 1.25, ST, 활하중-상부, 1.25
     ST, 풍하중-coping, 0.625, ST, 풍하중-기둥, 0.625
     ST, 풍하중-상부, 0.625, ST, 온도하중, -1.25, ST, 풍하중-활하중, 0.625
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   NAME=cLCB9, 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-기둥, 0.625
        ST, 풍하중-활하중, 0.625, ST, 풍하중-상부, 0.625, ST, 온도하중, 1.25

*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, 0, 192, 0, 157, 192, 192, 192, 192
 ST, 고정하중-상부, 192, 72, 0, 0, 128, 192, 148, 87, 255
 ST, 활하중-상부, 85, 192, 0, 255, 255, 87, 255, 0, 192
 ST, 풍하중-coping, 85, 192, 0, 192, 128, 0, 192, 128, 0
 ST, 풍하중-기둥, 255, 255, 255, 255, 87, 128, 212, 160, 255
 ST, 풍하중-활하중, 255, 0, 128, 0, 128, 192, 255, 255, 255
 ST, 온도하중, 210, 210, 210, 255, 255, 87, 255, 0, 192
 CB, ULB01, 192, 128, 0, 146, 0, 255, 192, 192, 0
 CB, ULB02, 255, 0, 128, 255, 0, 128, 212, 160, 255
 ST, 풍하중-상부, 255, 255, 87, 255, 87, 128, 255, 0, 128
 CB, ULB03, 0, 192, 128, 192, 0, 192, 146, 0, 255
 CB, ULB04, 255, 255, 255, 255, 255, 87, 255, 192, 160
 CB, ULB05, 255, 0, 128, 0, 192, 192, 148, 87, 255
 CB, ULB06, 146, 0, 255, 192, 0, 192, 255, 255, 255
 CB, ULB07, 0, 192, 192, 210, 210, 210, 255, 160, 255
 CB, ULB08, 85, 0, 192, 192, 72, 0, 255, 87, 128
 CB, ULB09, 210, 210, 210, 255, 192, 87, 210, 210, 210
 CBC, cLCB1, 192, 0, 192, 192, 192, 0, 0, 128, 57
 CBC, cLCB2, 0, 128, 128, 192, 0, 192, 148, 87, 255
 CBC, cLCB3, 0, 128, 128, 0, 128, 128, 85, 192, 0
 CBC, cLCB4, 78, 0, 255, 192, 128, 0, 146, 0, 255
 CBC, cLCB5, 85, 192, 0, 192, 192, 192, 0, 128, 57
 CBC, cLCB6, 192, 0, 192, 192, 192, 192, 146, 0, 255
 CBC, cLCB7, 0, 192, 128, 85, 192, 0, 160, 255, 255
 CBC, cLCB8, 163, 160, 255, 212, 160, 255, 160, 255, 255
 CBC, cLCB9, 255, 255, 255, 192, 192, 192, 192, 0, 192
 CB, 최대, 163, 160, 255, 255, 255, 87, 146, 0, 255

*MEMBER    ; Member
; iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
   1, 1, NO, 10, 11, 12, 13, 14, 15, 16, 17, 18, 28, 19, 20, 21, 22, 23, 24, W
        25, 26, 27

*DGN-MATL    ; Modify Steel(Concrete) Material
; iMAT, TYPE, MNAME, [DATA1]                                    ; STEEL
; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT, LONG ; CONC
; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]                 ; SRC
```


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```
; 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
, KS01-Civil(RC), SD300, SD300, , , 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=cLCB9, cLCB8, cLCB7, cLCB6, cLCB5, cLCB4, cLCB3, cLCB2, cLCB1

*DPAR-RCCOL   ; Design Parameter for RC Column
; EL_LIST, iXDirBd, iYDirBd, bPosi, bPosj, bPosm, bAutoEq                    ; 1st l
ine
;          bAutoDeltans, bAutoDeltas, bShChk, bAutoBd, Rhomax, Cmy, 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
   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
```

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; 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,  73, D32, ,  0, , ,  0, ,
   POSITIONI = 0.2,  61, 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
; ..................................................................... ;

;       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
; ..................................................................... ;
```


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```
   SECT=2, YES
 0, 0, 0, 0

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

;       LOOP UTIL (STFNISIZE, STFNJSIZE)                               ;

;       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
```