

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천1교_하부구조(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
3, 0, 0, 22.6
5, 0, 0, 23.8
10, -1.25, 0, 23.8
11, -2.01, 0, 23.8
12, -3.05, 0, 23.8
13, 5.5, 0, 0
14, 5.5, 0, 22.6
15, 5.5, 0, 23.8
16, 6.75, 0, 23.8
17, 7.51, 0, 23.8
18, 8.55, 0, 23.8
19, 0, 0, 25
20, -2.01, 0, 25
21, 5.5, 0, 25
22, 7.51, 0, 25
23, 0, 0, 1.13
24, 0, 0, 2.26
25, 0, 0, 3.39
26, 0, 0, 4.52
27, 0, 0, 5.65
28, 0, 0, 6.78
29, 0, 0, 7.91

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30, 0, 0, 9.04
31, 0, 0, 10.17
32, 0, 0, 11.3
33, 0, 0, 12.43
34, 0, 0, 13.56
35, 0, 0, 14.69
36, 0, 0, 15.82
37, 0, 0, 16.95
38, 0, 0, 18.08
39, 0, 0, 19.21
40, 0, 0, 20.34
41, 0, 0, 21.47
42, 5.5, 0, 1.13
43, 5.5, 0, 2.26
44, 5.5, 0, 3.39
45, 5.5, 0, 4.52
46, 5.5, 0, 5.65
47, 5.5, 0, 6.78
48, 5.5, 0, 7.91
49, 5.5, 0, 9.04
50, 5.5, 0, 10.17
51, 5.5, 0, 11.3
52, 5.5, 0, 12.43
53, 5.5, 0, 13.56
54, 5.5, 0, 14.69
55, 5.5, 0, 15.82
56, 5.5, 0, 16.95
57, 5.5, 0, 18.08
58, 5.5, 0, 19.21
59, 5.5, 0, 20.34
60, 5.5, 0, 21.47
61, 1.375, 0, 23.8
62, 2.75, 0, 23.8
63, 4.125, 0, 23.8

*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, 23, 0, 0
2, BEAM , 1, 1, 13, 42, 0, 0
3, BEAM , 1, 2, 12, 11, 0, 0

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4, BEAM , 1, 2, 11, 10, 0, 0
5, BEAM , 1, 2, 18, 17, 0, 0
6, BEAM , 1, 2, 17, 16, 0, 0
7, BEAM , 1, 3, 10, 5, 0, 0
8, BEAM , 1, 3, 5, 61, 0, 0
9, BEAM , 1, 3, 15, 16, 0, 0
10, BEAM , 1, 1, 23, 24, 0, 0
11, BEAM , 1, 1, 24, 25, 0, 0
12, BEAM , 1, 1, 25, 26, 0, 0
13, BEAM , 1, 1, 26, 27, 0, 0
14, BEAM , 1, 1, 27, 28, 0, 0
15, BEAM , 1, 1, 28, 29, 0, 0
16, BEAM , 1, 1, 29, 30, 0, 0
17, BEAM , 1, 1, 30, 31, 0, 0
18, BEAM , 1, 1, 31, 32, 0, 0
19, BEAM , 1, 1, 32, 33, 0, 0
20, BEAM , 1, 1, 33, 34, 0, 0
21, BEAM , 1, 1, 34, 35, 0, 0
22, BEAM , 1, 1, 35, 36, 0, 0
23, BEAM , 1, 1, 36, 37, 0, 0
24, BEAM , 1, 1, 37, 38, 0, 0
25, BEAM , 1, 1, 38, 39, 0, 0
26, BEAM , 1, 1, 39, 40, 0, 0
27, BEAM , 1, 1, 40, 41, 0, 0
28, BEAM , 1, 1, 41, 3, 0, 0
29, BEAM , 1, 1, 42, 43, 0, 0
30, BEAM , 1, 1, 43, 44, 0, 0
31, BEAM , 1, 1, 44, 45, 0, 0
32, BEAM , 1, 1, 45, 46, 0, 0
33, BEAM , 1, 1, 46, 47, 0, 0
34, BEAM , 1, 1, 47, 48, 0, 0
35, BEAM , 1, 1, 48, 49, 0, 0
36, BEAM , 1, 1, 49, 50, 0, 0
37, BEAM , 1, 1, 50, 51, 0, 0
38, BEAM , 1, 1, 51, 52, 0, 0
39, BEAM , 1, 1, 52, 53, 0, 0
40, BEAM , 1, 1, 53, 54, 0, 0
41, BEAM , 1, 1, 54, 55, 0, 0
42, BEAM , 1, 1, 55, 56, 0, 0
43, BEAM , 1, 1, 56, 57, 0, 0
44, BEAM , 1, 1, 57, 58, 0, 0
45, BEAM , 1, 1, 58, 59, 0, 0
46, BEAM , 1, 1, 59, 60, 0, 0
47, BEAM , 1, 1, 60, 14, 0, 0
48, BEAM , 1, 3, 61, 62, 0, 0

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49, BEAM , 1, 3, 62, 63, 0, 0
50, BEAM , 1, 3, 63, 15, 0, 0

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*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

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*MATL-COLOR

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; 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

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*SECTION ; Section

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; 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, 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

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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
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
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)

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;      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, EgDsb, 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
line(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)
;      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

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ine
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - COMPOSITE-C1/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, 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
; [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
; [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)

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LL), 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 , 기동 , CC, 0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5, 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
1.5, 2.5, 0, 0, 0, 0, 0, 0, 2.4, 2.5, 0, 0, 0, 0, 0, 0
3, DBUSER , 중앙 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.4, 2.5, 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, 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

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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
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
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)

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;      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, EgDsb, 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
line(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)
;      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

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PROJECT TITLE :

	Company		Client	
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ine
: iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE ; 1st I
ine - COMPOSITE-C1/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, EgDsb, 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
: [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, 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, 2.5, 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
1.5, 2.5, 0, 0, 0, 0, 0, 0, 2.4, 2.5, 0, 0, 0, 0, 0, 0
3, DBUSER , 중앙 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.4, 2.5, 0,
0, 0, 0, 0, 0, 0, 0

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	Author		File Name	청도천1교_하부구조(대구)

LL), 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, 2.5, 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
1.5, 2.5, 0, 0, 0, 0, 0, 0, 2.4, 2.5, 0, 0, 0, 0, 0, 0
3, DBUSER , 중앙 , CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.4, 2.5, 0,
0, 0, 0, 0, 0, 0, 0

*TS-GROUP : Tapered Section Group
: NAME, ELEM_LIST, ZVAR, ZEXP, ZFROM, YVAR, YEXP, YFROM, YDIST, iSCM
coping, 3to6, LINEAR, , , , LINEAR, , , , 0

*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 ,
온도하중, D ,
지점침하, 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

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; 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
; [AIK-WS02K] : bSPECIAL
; line 2
; [AIJ-WS099] : bSPECIAL, KIND
; line 2

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PROJECT TITLE :

	Company		Client	
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; [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, bBRCE, b
RWALL, bRSLAB, bRMAT, bSBEAM, bCANTIL, bUNDER-BM/COLM
CODE=KSCE-USD05, 0, 0, 0, 1, 0, , ,
NO, 0, 0, 0, 0, 0, 0
YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, YES, 0

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```
*CONSTRAINT      ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
1 13, 111111,
```

```
*ELASTIC LINK
; 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, DRENDI, GROUP ; MULTI LINEAR
1, 11, 20, RIGID, 0, NO, 0.5, 0.5,
2, 5, 19, RIGID, 0, NO, 0.5, 0.5,
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	Author		File Name	청도천1교_하부구조(대구)

3, 15, 21, RIGID, 0, NO, 0.5, 0.5,
4, 17, 22, RIGID, 0, NO, 0.5, 0.5,

*MEMBERTYPE ; Modify Member Type
; ELEM_LIST, TYPE, SUBTYPE
1 2 10to47, COLUMN, 0

*RIGIDLINK ; Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
5, 111111, 3,
15, 111111, 14,

*USE-STLD, 자중

; *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
19, 0, 0, -1225.37, 0, 0, 0,
20, 0, 0, -1225.37, 0, 0, 0,
21, 0, 0, -1225.37, 0, 0, 0,
22, 0, 0, -1225.37, 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
19, 0, 0, -669.769, 0, 0, 0,
20, 0, 0, -669.769, 0, 0, 0,
21, 0, 0, -669.769, 0, 0, 0,
22, 0, 0, -669.769, 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

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	Author		File Name	청도천1교_하부구조(대구)

19, -155, 0, 0, 0, 0, 0,
20, -155, 0, 0, 0, 0, 0,
21, -155, 0, 0, 0, 0, 0,
22, -155, 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
18, -18, 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
32, -169.5, 0, 0, 0, 0, 0,
51, -169.5, 0, 0, 0, 0, 0,

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

*USE-STLD, 풍하중-활하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
19, -33.75, 0, 0, 0, -153.563, 0,
20, -33.75, 0, 0, 0, -153.563, 0,
21, -33.75, 0, 0, 0, -153.563, 0,
22, -33.75, 0, 0, 0, -153.563, 0,

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

*USE-STLD, 온도하중

*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
19, 0, 61.2686, 0, 0, 0, 0,
20, 0, 61.2686, 0, 0, 0, 0,
21, 0, 61.2686, 0, 0, 0, 0,
22, 0, 61.2686, 0, 0, 0, 0,

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

PROJECT TITLE :

	Company		Client	
	Author		File Name	청도천1교_하부구조(대구)

*USE-STLD, 지점침하

*CONLOAD : Nodal Loads
: NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
19, 0, 0, -109.653, 0, 0, 0,
20, 0, 0, -109.653, 0, 0, 0,
21, 0, 0, -109.653, 0, 0, 0,
22, 0, 0, -109.653, 0, 0, 0,

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

*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
NAME=lc4, 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=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-상부, 1.25
ST, 풍하중-코핑, 1.25, ST, 풍하중-기둥, 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-상부, 1.25
ST, 풍하중-코핑, 1.25, ST, 풍하중-기둥, 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-상부, 0.625, ST, 풍하중-코핑, 0.625, ST, 풍하중-기둥, 0.625
ST, 풍하중-활하중, 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

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ST, 풍하중-상부, 0.625, ST, 풍하중-코핑, 0.625, ST, 풍하중-기둥, 0.625
ST, 풍하중-활하중, 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, 85, 0, 192, 0, 128, 57, 255, 0, 128
ST, 고정하중-상부, 210, 210, 210, 255, 128, 0, 255, 255, 87
ST, 활하중-상부, 160, 192, 255, 192, 192, 192, 255, 192, 160
ST, 풍하중-상부, 192, 192, 0, 192, 192, 192, 255, 255, 87
ST, 풍하중-코핑, 255, 160, 255, 212, 160, 255, 192, 0, 128
ST, 풍하중-기둥, 255, 87, 87, 192, 128, 0, 128, 192, 0
ST, 풍하중-활하중, 0, 192, 192, 0, 128, 192, 255, 192, 87
ST, 온도하중, 255, 255, 87, 255, 0, 192, 0, 192, 192
ST, 지점침하, 212, 160, 255, 0, 128, 57, 160, 192, 255
CBC, lc1, 0, 192, 128, 210, 210, 210, 255, 160, 255
CBC, lc2, 192, 0, 192, 0, 128, 128, 255, 192, 160
CBC, lc3, 160, 255, 255, 0, 128, 128, 255, 87, 87
CBC, lc4, 146, 0, 255, 163, 255, 160, 212, 160, 255
CBC, lc5, 78, 0, 255, 160, 255, 255, 160, 255, 255
CBC, lc6, 85, 0, 192, 255, 87, 128, 93, 255, 87
CBC, lc7, 0, 192, 128, 78, 0, 255, 255, 0, 128
CBC, lc8, 0, 192, 192, 0, 157, 192, 160, 192, 255
CBC, lc9, 163, 255, 160, 255, 0, 128, 192, 0, 192
CBC, 최대, 0, 192, 192, 255, 0, 128, 163, 160, 255

*MEMBER : Member
: iKEY, ELEM, bREVERSE, AELEM1, AELEM2, ...
1, 1, NO, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, W
26, 27, 28
2, 2, NO, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, W
45, 46, 47

*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, PO1SN, FU, FY1, FY2, FY3, FY4
: FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
: [DATA2] : 1, DB, CODE, NAME or 2, FC, CHK, LAMBDA

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; [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=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 Line
ine
;          bAutoDeltans, bAutoDeltas, bShChk, bAutoBd, Rhomax, CmY, CmZ,          ; 2nd Line
ine
;          Dc, Deltansy, Deltansz, Deltasy, DeltasZ, Remark          ; 3rd Line
ine
;          bCTC, CTC, bBd_NS, Bd_nsy, Bd_nsz, bBd_S, Bd_sy, Bd_sz, bRS, Ry, Rz ; 4th Line
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
2, 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
; POSITIONNM = 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
; POSITIONNJ = DC1, [COLM]-P1, [COLM]-P2, [COLM]-P3   ; line 14(layer1)
```

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; ... ; ...
; DC5, [COLM]-P1, [COLM]-P2, [COLM]-P3 ; line 18(layer5)
; SBNUM, SBDIST, SBSIZE ; line 19
; [COLM] : NUM, S1, S2
ELEM = 1,
POSITIONI = 0.1, 58, D25, , 0, , , 0, ,
POSITIONI = 0.2, 53, D25, , 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,
ELEM = 2,
POSITIONI = 0.1, 58, D25, , 0, , , 0, ,
POSITIONI = 0.2, 53, D25, , 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
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e 1
;      GRPDJSIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE          ; lin
e 2
; ..... ;
;      LOOP UTIL (GRPDJSIZE, 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

```