◇ Input Data ◇

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;-----------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2021/7/9
;-----------------------------------------------------------------------

*VERSION
     9.0.0
*UNIT     : Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN,   M,  KCAL,  C
*STRUCTYPE    : Structure Type
; iSTYP, iMASS , iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV,
TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
     3,    1,  YES,  YES, 9.806, 0, NO, NO, NO
*REBAR-MATL-CODE    : Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
KS01-Civil(RC), SD240, KS01-Civil(RC), SD240
*NODE    : Nodes
; iNO, X, Y, Z
     1, 0, -3.3, -2.525
     2, 0, 0, 0
     3, 0, 3.3, -2.525
     4, 1.2, 0, 0
     5, 32, 0, 0
     6, 44.1, 0, 0
     7, 45, -3.3, -2.525
     8, 45, 0, 0
     9, 45, 3.3, -2.525
    10, 45.9, 0, 0
    11, 52, 0, 0
    12, 55, 0, 0
    13, 58, 0, 0
    14, 80.5, 0, 0
    15, 94.1, 0, 0
    16, 95, -3.3, -2.525
    17, 95, 0, 0
    18, 95, 3.3, -2.525
    19, 95.9, 0, 0
    20, 104, 0, 0
    21, 107, 0, 0
    22, 109.5, 0, 0
    23, 140.5, 0, 0
    24, 154.1, 0, 0
    25, 155, -3.3, -2.525
    26, 155, 0, 0
    27, 155, 3.3, -2.525
    28, 155.9, 0, 0
    29, 162, 0, 0
    30, 165, 0, 0
    31, 169.5, 0, 0
    32, 192, 0, 0
    33, 204.1, 0, 0
    34, 205, -3.3, -2.525
    35, 205, 0, 0
    36, 205, 3.3, -2.525
    37, 205.9, 0, 0
    38, 211, 0, 0
    39, 214, 0, 0
    40, 218, 0, 0
    41, 248.8, 0, 0
    42, 250, -3.3, -2.525
    43, 250, 0, 0
    44, 250, 3.3, -2.525
    45, 475.475, 0, 0
    46, 178.7, 0, 0
    47, 180, 0, 0
    48, 176.775, 0, 0
    49, 207.5, 0, 0
    50, 208.8, 0, 0
    51, 204.275, 0, 0
    52, 228.125, 0, 0
    53, 229.425, 0, 0
    54, 224.9, 0, 0
    55, 69.25, 0, 0
    56, 4.28, 0, 0
    57, 7.36, 0, 0
    58, 10.44, 0, 0
    59, 13.52, 0, 0
    60, 16.6, 0, 0
    61, 19.68, 0, 0
    62, 22.76, 0, 0
    63, 25.84, 0, 0
    64, 28.92, 0, 0
    65, 60.25, 0, 0
    66, 62.5, 0, 0
    67, 64.75, 0, 0
    68, 67, 0, 0
    69, 71.5, 0, 0
    70, 73.75, 0, 0
    71, 76, 0, 0
    72, 78.25, 0, 0
    73, 112.6, 0, 0
    74, 115.7, 0, 0
    75, 118.8, 0, 0
    76, 121.9, 0, 0
    77, 125, 0, 0
    78, 128.1, 0, 0
    79, 131.2, 0, 0
    80, 134.3, 0, 0
    81, 137.4, 0, 0
    82, 34.42, 0, 0
    83, 36.84, 0, 0
    84, 39.26, 0, 0
    85, 41.68, 0, 0
    86, 83.22, 0, 0
    87, 85.94, 0, 0
    88, 88.66, 0, 0
    89, 91.38, 0, 0
    90, 96.6, 0, 0
    91, 101.3, 0, 0
    92, 143.22, 0, 0
    93, 145.94, 0, 0
    94, 148.66, 0, 0
    95, 151.38, 0, 0
    96, 182.4, 0, 0
    97, 184.8, 0, 0
    98, 187.2, 0, 0
    99, 189.6, 0, 0
   100, 194.42, 0, 0
   101, 196.84, 0, 0
   102, 199.26, 0, 0
   103, 201.68, 0, 0
   104, 233.3, 0, 0
   105, 237.175, 0, 0
   106, 241.05, 0, 0
   107, 244.925, 0, 0
   108, 69.25, 6.95, -2.525
   109, 69.25, -6.95, -2.525
*ELEMENT    : Elements
;  iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB,
; 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
     1, BEAM  .    1,    1,    3,    2,    4,    0,    0
     2, BEAM  .    1,    1,    4,   56,    0,    0
     3, BEAM  .    1,    1,    5,   82,    0,    0
     4, BEAM  .    1,    3,    6,    8,    0,    0
     5, BEAM  .    1,    2,    9,   10,    0,    0
     6, BEAM  .    1,    2,   10,   11,    0,    0
     7, BEAM  .    1,    2,   11,   12,    0,    0
     8, BEAM  .    1,    1,   12,   13,    0,    0
     9, BEAM  .    1,    1,   13,   65,    0,    0
    10, BEAM  .    1,    1,   14,   86,    0,    0
    11, BEAM  .    1,    3,   15,   17,    0,    0
    12, BEAM  .    1,    3,   17,   19,    0,    0
    13, BEAM  .    1,    2,   19,   20,    0,    0
    14, BEAM  .    1,    2,   20,   21,    0,    0
    15, BEAM  .    1,    1,   21,   22,    0,    0
    16, BEAM  .    1,    1,   22,   73,    0,    0
    17, BEAM  .    1,    1,   23,   92,    0,    0
    18, BEAM  .    1,    3,   24,   26,    0,    0
    19, BEAM  .    1,    3,   26,   28,    0,    0
    20, BEAM  .    1,    2,   28,   29,    0,    0
    21, BEAM  .    1,    2,   29,   30,    0,    0
    22, BEAM  .    1,    1,   30,   31,    0,    0
    23, BEAM  .    1,    1,   31,   45,    0,    0
    24, BEAM  .    1,    1,   32,  100,    0,    0
    25, BEAM  .    1,    3,   33,   51,    0,    0
    26, BEAM  .    1,    3,   35,   37,    0,    0
    27, BEAM  .    1,    2,   37,   49,    0,    0
    28, BEAM  .    1,    2,   38,   39,    0,    0
    29, BEAM  .    1,    1,   39,   40,    0,    0
    30, BEAM  .    1,    1,   40,   54,    0,    0
    31, BEAM  .    1,    3,   41,   43,    0,    0
    32, BEAM  .    1,    1,   45,   48,    0,    0
    33, BEAM  .    1,    1,   46,   47,    0,    0
    34, BEAM  .    1,    1,   47,   96,    0,    0
    35, BEAM  .    1,    1,   48,   46,    0,    0
    36, BEAM  .    1,    2,   49,   50,    0,    0
    37, BEAM  .    1,    2,   50,   38,    0,    0
    38, BEAM  .    1,    3,   51,   35,    0,    0
    39, BEAM  .    1,    1,   52,   53,    0,    0
    40, BEAM  .    1,    1,   53,  104,    0,    0
    41, BEAM  .    1,    1,   54,   52,    0,    0
    42, BEAM  .    1,    1,   55,   69,    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,   61,    0,    0
    48, BEAM  .    1,    1,   61,   62,    0,    0
    49, BEAM  .    1,    1,   62,   63,    0,    0
    50, BEAM  .    1,    1,   63,   64,    0,    0
    51, BEAM  .    1,    1,   64,    5,    0,    0
    52, BEAM  .    1,    1,   65,   66,    0,    0
    53, BEAM  .    1,    1,   66,   67,    0,    0
    54, BEAM  .    1,    1,   67,   68,    0,    0
    55, BEAM  .    1,    1,   68,   55,    0,    0
    56, BEAM  .    1,    1,   69,   70,    0,    0
    57, BEAM  .    1,    1,   70,   71,    0,    0
    58, BEAM  .    1,    1,   71,   72,    0,    0
    59, BEAM  .    1,    1,   72,   14,    0,    0
    60, BEAM  .    1,    1,   73,   74,    0,    0
    61, BEAM  .    1,    1,   74,   75,    0,    0
    62, BEAM  .    1,    1,   75,   76,    0,    0
    63, BEAM  .    1,    1,   76,   77,    0,    0
    64, BEAM  .    1,    1,   77,   78,    0,    0
    65, BEAM  .    1,    1,   78,   79,    0,    0
    66, BEAM  .    1,    1,   79,   80,    0,    0
    67, BEAM  .    1,    1,   80,   81,    0,    0
    68, BEAM  .    1,    1,   81,   23,    0,    0
    69, BEAM  .    1,    1,   82,   83,    0,    0
    70, BEAM  .    1,    1,   83,   84,    0,    0
    71, BEAM  .    1,    1,   84,   85,    0,    0
    72, BEAM  .    1,    1,   85,    6,    0,    0
    73, BEAM  .    1,    1,   86,   87,    0,    0
    74, BEAM  .    1,    1,   87,   88,    0,    0
    75, BEAM  .    1,    1,   88,   89,    0,    0
    76, BEAM  .    1,    1,   89,    1,    0,    0
    77, BEAM  .    1,    2,   90,   91,    0,    0
    78, BEAM  .    1,    2,   91,   20,    0,    0
    79, BEAM  .    1,    1,   92,   93,    0,    0
    80, BEAM  .    1,    1,   93,   94,    0,    0
    81, BEAM  .    1,    1,   94,   95,    0,    0
    82, BEAM  .    1,    1,   95,   24,    0,    0
    83, BEAM  .    1,    1,   96,   97,    0,    0
    84, BEAM  .    1,    1,   97,   98,    0,    0
    85, BEAM  .    1,    1,   98,   99,    0,    0
    86, BEAM  .    1,    1,   99,   32,    0,    0
    87, BEAM  .    1,    1,  100,  101,    0,    0
    88, BEAM  .    1,    1,  101,  102,    0,    0
    89, BEAM  .    1,    1,  102,  103,    0,    0
    90, BEAM  .    1,    1,  103,   33,    0,    0
    91, BEAM  .    1,    1,  104,  105,    0,    0
    92, BEAM  .    1,    1,  105,  106,    0,    0
    93, BEAM  .    1,    1,  106,  107,    0,    0
    94, BEAM  .    1,    1,  107,   41,    0,    0
*GROUP    : Group
; NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
   GS1       : 2to10by2 11 12, 1to7 43to51 69to72, 0
   GS2       : 12 15 17 19to21, 8to14 42 52to59 73to78, 0
   GS3       : 21 24 26 28to30, 15to21 60to68 79to82, 0
   GS4       : 30 33 35 37to39, 22to28 32to38 83to90, 0
   GS5       : 39 41 43, 29to31 39to41 91to94, 0
*BNDR-GROUP    : Boundary Group
; NAME, AUTOTYPE
 A1, 0
 P1, 0
 P2, 0
 P3, 0
 P4, 0
 A2, 0
 중간, 0
 지점부, 0
*LOAD-GROUP    : Load Group
; NAME
 Self
 PS1
 PS2
 PS3
 2nd Dead
*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, STANDARD, CODE/PRODUCT, DB, USEELAST,
ELAST
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz,
Pyz, DEN, MASS : Orthotropic
; [DATA2] : 1, STANDARD, CODE/PRODUCT, DB, USEELAST,
ELAST or 2, ELAST, POISN, THERMAL, DEN, MASS
     1, CONC , C40          , 0, 0, , C, NO, 0.05, 1,
KS01-Civil(RC)
     2, USER , tendon       , C40          , NO, 2.8628e+007,
1.9613e+008,          0, 0.0000e+000, 78.5,          0
*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
     2, 255,   0,   0,   0, 255,   0,   0,   0, 255,  NO, 0.5
*TDM-TYPE    : Time Dependent Material
; NAME=NAME, CODE, STR, HU, VOL, AGE, CFACTA, CFACTB,
TYPE [ACI] or ACI2[, CODE=ACI
;  NAME=NAME, CODE, STR, HU, MSIZE, CTYPE, AGE
;                                  CODE=CEB1990,KS,CEB1978,KSCE
2010,KCI-USD12,CEB-FIP2010
;      NAME=NAME,      CODE,      N1,      PHI1,      N2,      PHI2
,                  CODE=MEM
;  NAME=NAME, CODE, STR, HU, USS, UCS, VOL, RR, MOD
,                  CODE=PCA
;  NAME=NAME, CODE, STR, HU, VOL, UCS, VSR1, LAF, US,
VSR, PST, bRCE, RR, MOD  ; CODE=COMBINED
; NAME=NAME, CODE, STR, HTYPE, HU, MSIZE, CTYPE, AGE,
CM                  ; CODE=JAPAN
;  NAME=NAME, CODE, ELAST, HU, VOL, CC, WC, AGE
,                  CODE=ISCE
;  NAME=NAME, CODE, STR, HTYPE, HU, MSIZE, AGE
,                  CODE=CHINA
;  NAME=NAME, CODE, STR, HU, MSIZE, BSC, AGE
,                  CODE=ITG
;  NAME=NAME, CODE, STR, HU, VSR, AGE, bEXPOSE
,                  CODE=AASHTO
;      NAME=NAME,      CODE,      STR,      HU,      MSIZE,      AGE
,                  CODE=INDIA(IRC:18-2000)
;  NAME=NAME, CODE, STR, HU, MSIZE, CTYPE, AGE
,                  CODE=INDIA(IRC:112-2011)
; NAME=NAME, CODE, STR, HU, MSIZE, CTYPE, AGE, TCode,
bSILICA                  ; CODE=European
; NAME=NAME, CODE, STR, EE(Not Use), FS, HT, DSE, DSC,
AGE                  ; CODE=NZ Bridge(SP/M/022)
;  NAME=NAME, CODE, STR, HU, AGE, M, CMETH, CTYPE,
CREEP, CONCT, W, MAXS, A, PZ ; CODE=Russian
; NAME=NAME, CODE, STR, HU, MSIZE, BSC, AGE, FLYASH
,                  CODE=China(JTG3362-2018)
;  NAME=NAME, CODE, STR, EE, HT, DSC, DSCUSR, AGE
,                  CODE=Australia
; NAME=NAME, CODE, STR, HU, MSIZE, CTYPE, AGE, DENSITY
,                  CODE=KDS-2016
;      NAME=NAME,      CODE,      bSSF,      SSFNAME
,                  CODE=USER(line1)
;              CREEPFUNC1,      AGE1,      CREEPFUNC2,      AGE2,      ...
,                  USER(from line 2)
; [ACI1] : CURE, SLUMP, FAP, AIR, CC
; [ACI2] : UCC, USS
;  NAME=C40, CEB, 40000, 70, 0.559, NR, 3, 0
*TDM-ELAST    : Time Dependent Material(Comp. Strength)
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,      A,      B
,                  TYPE=CODE(Korean Stand(ACI)
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,      iCTYPE
,                  TYPE=CODE(CEB-FIP, Ohzagi, KCI-USD12)
;  NAME=NAME, TYPE, CODE, STRENGTH, bUSE, [DATA]
,                  TYPE=CODE(Japan(Hydration))
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,      iTYPE
,                  TYPE=CODE(Japan(Elastic))
;      NAME=NAME,      TYPE,      CODE,      STRENGTH
,                  TYPE=CODE(INDIA(IRC:18-2000))
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,      iCTYPE
,                  TYPE=CODE(INDIA(IRC:112-2011))
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,      iCTYPE
,                  TYPE=CODE(European)
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,
,                  TYPE=CODE(CEB-FIP(1978))
; NAME=NAME, TYPE, CODE, STRENGTH, TYPE, CMETH, CTYPE,
MAXS, PZ ; TYPE=CODE(Russian))
;      NAME=NAME,      TYPE,      CODE,      STRENGTH,
,                  TYPE=CODE=Australia
;  NAME=NAME, TYPE, CODE, STRENGTH, iCTYPE, nAGGRE
,                  TYPE=CODE(CEB-FIP 2010)
;  NAME=NAME, TYPE, CODE, STRENGTH, iCTYPE, DENSITY
,                  TYPE=CODE(KDS 2016)
;      NAME=NAME,      TYPE,      SCALE
,                  TYPE=USER(line 1)
;              DAY1,      COMP1,      TENS1,      ELAST1,      DAY2,      COMP2,      ...
;                  USER(from line 2)
; [DATA] : ( A, B, D, TSF ) or ( iCTYPE, TSF)
;  NAME=C40, CODE, CEB-FIP, 40000, 1
*TDM-LINK    : Time Dependent Material Link
;      iMAT,      TDM-TYPE1(CREEP/SHRINKAGE),
TDM-TYPE2(ELAST1CITY)
     1, C40, C40
*SECTION    : Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1],
[DATA2]                  ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1,
;... D8, iCEL                  ; 1st line - VALUE
;                                  AREA,      ASy,      ASz,      Ixx,      Iyy,      Izz
,                  ; 2nd line
;      CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy,
Cz                  ; 3rd line
;                  Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz
,                  ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                  D1,      D2,      [SRC]
,                  ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB,
NAME1, NAME2, D1, D2  ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR,
izVAR, STYPE                  ; 1st line - TAPERED
;                                  DB,      NAME1,      NAME2
,                  ; 2nd line(STYPE=DB)
;                                  [DIM1],      [DIM2]
,                  ; 2nd line(STYPE=USER)
;                  D11, D12, D13, D14, D15, D16, D17, D18
,                  ; 2nd line(STYPE=VALUE)
;                  AREA1,      ASy1,      ASz1,      Ixx1,      Iyy1,      Izz1
,                  ; 3rd line(STYPE=VALUE)
;          CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1,
PERI_IN1, Cy1, Cz1                  ; 4th line(STYPE=VALUE)
;          Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2
,                  ; 5th line(STYPE=VALUE)
;                  D21, D22, D23, D24, D25, D26, D27, D28
,                  ; 6th line(STYPE=VALUE)
;                  AREA2,      ASy2,      ASz2,      Ixx2,      Iyy2,      Izz2
,                  ; 7th line(STYPE=VALUE)
;          CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2,
PERI_IN2, Cy2, Cz2                  ; 8th line(STYPE=VALUE)
;          Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2
,                  ; 9th line(STYPE=VALUE)
;                                  OPT1,      OPT2,      [JOINT]
,                  ; 2nd line(STYPE=PSC)
;                  ELAST, DEN, POIS, POIC, THERMAL
,                  ; 2nd line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ,
bSYM, bSIDEHOLE                  ; 3rd line(STYPE=PSC)
;          bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]
,                  ; 3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF-I], [STIFF-J]                  ; 4th line(STYPE=PSC)
;                                  [SIZE-A]-i
,                  ; 5th line(STYPE=PSC)
;                                  [SIZE-B]-i
,                  ; 6th line(STYPE=PSC)
;                                  [SIZE-C]-i
,                  ; 7th line(STYPE=PSC)
;                                  [SIZE-D]-i
,                  ; 8th line(STYPE=PSC)
;                                  [SIZE-A]-j
,                  ; 9th line(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 line(STYPE=CMP-B/I)
;          SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i
,                  ; 3rd line(STYPE=CMP-B/I)
;          SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j
,                  ; 4th line(STYPE=CMP-B/I)
;                                  N1,      N2,      Hr,      Hr2,      tr1,      tr2
,                  ; 5th line(STYPE=CMP-B)
;          GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM,
SW_i, SW_j                  ; 2nd line(STYPE=CMP-CI/CT)
;                                  OPT1,      OPT2,      [JOINT]
,                  ; 3rd line(STYPE=CMP-CI/CT)
;                                  [SIZE-A]-i
,                  ; 4th line(STYPE=CMP-CI/CT)
;                                  [SIZE-B]-i
,                  ; 5th line(STYPE=CMP-CI/CT)
;                                  [SIZE-C]-i
,                  ; 6th line(STYPE=CMP-CI/CT)
;                                  [SIZE-D]-i
,                  ; 7th line(STYPE=CMP-CI/CT)
;                                  [SIZE-A]-j
,                  ; 8th line(STYPE=CMP-CI/CT)
;                                  [SIZE-B]-j
,                  ; 9th line(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, bWE, STYPE1, STYPE2
,                  ; 1st line - CONSTRUCT
;          SHAPE, ...(same with other type data from shape)
,                  ; Before (STYPE1)
;          SHAPE, ...(same with other type data from shape)
,                  ; After (STYPE2)
;  iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
,                  ; 1st line - COMPOSITE-B
;                  Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2
,                  ; 2nd line
;          [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~4)
,                  ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh                  ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
,                  ; 1st line - COMPOSITE-I
;                  Hw, tw, B1, tf1, B2, tf2
,                  ; 2nd line
;          [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~2)
,                  ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh                  ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
,                  ; 1st line - COMPOSITE-TUB
;                  Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2, Bf3, tfp
,                  ; 2nd line
;          [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3)
,                  ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti, Elong, Esh                  ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE
,                  ; 1st line - COMPOSITE-CI/CT
;                                  OPT1,      OPT2,      [JOINT]
,                  ; 2nd line
;                                  [SIZE-A]
,                  ; 3rd line
;                                  [SIZE-B]
,                  ; 4th line
;                                  [SIZE-C]
,                  ; 5th line
;                                  [SIZE-D]
```

```
                    ; 6th line
;           SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb
                    ; 7th line
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - PSC
;                                   OPT1,   OPT2,   [JOINT]
                    ; 2nd line
;           bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE
                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]
                    ; 4th line
;               bWE,  [WARPING  POINT]-i,  [WARPING  POINT]-j
                    ; 5th line
;                                                           [SIZE-A]
                    ; 6th line
;                                                           [SIZE-B]
                    ; 7th line
;                                                           [SIZE-C]
                    ; 8th line
;                                                           [SIZE-D]
                    ; 9th line
; [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,  HUSERI,  HUSERJ,
iVERT, VUSERI, VUSERJ
; [SHAPE-NUM], SHAPE-NUM, POS, STIFF-NUM1, STIFF-NUM2,
STIFF-NUM3, STIFF-NUM4
;  [STIFF-SHAPE]: SHAPE-NUM, for(SHAPE-NUM) { NAME,
SIZE1~8 }
; [STIFF-POS]: STIFF-NUM, for(STIFF-NUM) { SPACING, iSHAPE,
bCALC_1
;  [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),
9(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL),  9(PSCM), 10(PSCH),
7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] :  8(1CELL, 2CELL), 13(3CELL),  6(PSCM),  7(PSCH),
8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
; [STIFF]  : AREA, ASy, ASz, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
;  [WT]    :  bAUTO_TOR,  TOR,  bAUTO_SHR1,  SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EED, LRF, A, B, H, t
;  [WARPING  POINT]  :  nWarpingCheck,  X1,X2,X3,X4,X5,X6,
Y1,Y2,Y3,Y4,Y5,Y6
     1, PSC       , 일반부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, YES, 1.975, YES, 0.48,  YES, 0, YES, 0, YES, 0,
YES, 0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.18, 0.25
     23.5, 3, 0.5, 0.3, 0.3, 0.5, 1, 0
  2, PSC       , 연결부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, NO, 1.975, YES, 0.48,  YES, 0, YES, 0, YES, 0,
0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.18, 0.25
     23.5, 3, 1.5, 0.3, 0.3, 1, 1, 0
  3, PSC       , 지점부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, YES, 1.525, YES, 0.78,  YES, 0, YES, 0, YES, 0,
YES, 0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.68, 0.9
     23.5, 3, 1.5, 0.1, 0.1, 2, 1, 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, bWE, SHAPE, [DATA1],
[DATA2]                     ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1,
..., D8, iCEL               ; 1st line - VALUE
;                                   AREA,   ASy,   ASz,   Ixx,   Iyy,   Izz
                    ; 2nd line
;           CyP, CyM, CZP, CZM, QyB, QzB, PERI_OUT, PERI_IN, Cy,
Cz                          ; 3rd line
;                   Y1,  Y2,  Y3,  Y4,  Z1,  Z2,  Z3,  Z4,  Zyy,  Zzz
                    ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL : 1st line - SRC
;                                   D1,     D2,     [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB,
NAME1, NAME2, D1, D2        ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR,
izVAR, STYPE                ; 1st line - TAPERED
;                                   DB,     NAME1,  NAME2
                    ; 2nd line(STYPE=DB)
;                                                   [DIM1],[DIM2]
                    ; 2nd line(STYPE=USER)
;                   D11,    D12,    D13,    D14,    D15,    D16,    D17,    D18
                    ; 2nd line(STYPE=VALUE)
;                           AREA1,  ASy1,   ASz1,   Ixx1,   Iyy1,   Izz1
                    ; 3rd line(STYPE=VALUE)
;           CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1,
PERI_IN1, Cy1, Cz1          ; 4th line(STYPE=VALUE)
;                   Y11,    Y12,    Y13,    Y14,    Z11,    Z12,    Z13,    Z14,    Zyy1,   Zyy2
                    ; 5th line(STYPE=VALUE)
;                   D21,    D22,    D23,    D24,    D25,    D26,    D27,    D28
                    ; 6th line(STYPE=VALUE)
;                           AREA2,  ASy2,   ASz2,   Ixx2,   Iyy2,   Izz2
                    ; 7th line(STYPE=VALUE)
;           CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2,
PERI_IN2, Cy2, Cz2          ; 8th line(STYPE=VALUE)
;                   Y21,    Y22,    Y23,    Y24,    Z21,    Z22,    Z23,    Z24,    Zyy2,   Zzz2
                    ; 9th line(STYPE=VALUE)
;                                   OPT1,   OPT2,   [JOINT]
                    ; 2nd line(STYPE=PSC)
;                                   ELAST,  DEN,    POIS,   POIC,   THERMAL
                    ; 2nd line(STYPE=PSC-CMPW)
;           bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ,
bSYM, bSIDEHOLE             ; 3rd line(STYPE=PSC)
;           bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]
                    ; 3rd line(STYPE=PSC-CMPW)
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF-I], [STIFF-J]        ; 4th line(STYPE=PSC)
;                                                           [SIZE-A]-i
                    ; 5th line(STYPE=PSC)
;                                                           [SIZE-B]-i
                    ; 6th line(STYPE=PSC)
;                                                           [SIZE-C]-i
                    ; 7th line(STYPE=PSC)
;                                                           [SIZE-D]-i
                    ; 8th line(STYPE=PSC)
;                                                           [SIZE-A]-j
                    ; 9th line(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 line(STYPE=CMP-B/I)
;           SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i
                    ; 3rd line(STYPE=CMP-B/I)
;           SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j
                    ; 4th line(STYPE=CMP-B/I)
;                                   N1,     N2,     Hr,     Hr2,    tr1,    tr2
                    ; 5th line(STYPE=CMP-B)
;           GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM,
SW_i, SW_j                  ; 2nd line(STYPE=CMP-CI/C-I)
;                                   OPT1,   OPT2,   [JOINT]
                    ; 3rd line(STYPE=CMP-CI/CT)
;                                                           [SIZE-A]-i
                    ; 4th line(STYPE=CMP-CI/CT)
;                                                           [SIZE-B]-i
                    ; 5th line(STYPE=CMP-CI/CT)
;                                                           [SIZE-C]-i
                    ; 6th line(STYPE=CMP-CI/CT)
;                                                           [SIZE-D]-i
                    ; 7th line(STYPE=CMP-CI/CT)
;                                                           [SIZE-A]-j
                    ; 8th line(STYPE=CMP-CI/CT)
;                                                           [SIZE-B]-j
                    ; 9th line(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, bWE, STYPE1, STYPE2
                    ; 1st line - CONSTRUCT
;           SHAPE, ...(same with other type data from shape)
                    ; Before (STYPE1)
;           SHAPE, ...(same with other type data from shape)
                    ; After  (STYPE2)
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - COMPOSITE-B
;                           Hw,  tw,  B1,  Bf1,  tf1,  B2,  Bf2,  tf2
                    ; 2nd line
;           [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~4)
                    ; 3rd line
;           SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti_Elong_Esh            ; 4th line
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - COMPOSITE-I
;                           Hw,  tw,  B1,  tf1,  B2,  tf2
                    ; 2nd line
;           [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~2)
                    ; 3rd line
;           SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti_Elong_Esh            ; 4th line
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - COMPOSITE-TUB
;                           Hw,  tw,  B1,  Bf1,  tf1,  B2,  Bf2,  tf2,  Bf3,  tfp
                    ; 2nd line
;           [SHAPE-NUM], [STIFF-SHAPE], [STIFF-POS] (1~3)
                    ; 3rd line
;           SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, TsTc,
bMulti_Elong_Esh            ; 4th line
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - COMPOSITE-CI/C-I
;                                   OPT1,   OPT2,   [JOINT]
                    ; 2nd line
;                                                           [SIZE-A]
                    ; 3rd line
;                                                           [SIZE-B]
                    ; 4th line
;                                                           [SIZE-C]
                    ; 5th line
;                                                           [SIZE-D]
                    ; 6th line
;           SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb
                    ; 7th line
;   iSEC,   TYPE,   SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
                    ; 1st line - PSC
;                                   OPT1,   OPT2,   [JOINT]
                    ; 2nd line
;           bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE
                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]
                    ; 4th line
;               bWE,  [WARPING  POINT]-i,  [WARPING  POINT]-j
                    ; 5th line
;                                                           [SIZE-A]
                    ; 6th line
;                                                           [SIZE-B]
                    ; 7th line
;                                                           [SIZE-C]
                    ; 8th line
;                                                           [SIZE-D]
                    ; 9th line
; [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,  HUSERI,  HUSERJ,
iVERT, VUSERI, VUSERJ
; [SHAPE-NUM], SHAPE-NUM, POS, STIFF-NUM1, STIFF-NUM2,
STIFF-NUM3, STIFF-NUM4
;  [STIFF-SHAPE]: SHAPE-NUM, for(SHAPE-NUM) { NAME,
SIZE1~8 }
; [STIFF-POS]: STIFF-NUM, for(STIFF-NUM) { SPACING, iSHAPE,
bCALC_1
;  [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),
9(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL),  9(PSCM), 10(PSCH),
7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
; [SIZE-D] :  8(1CELL, 2CELL), 13(3CELL),  6(PSCM),  7(PSCH),
8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
; [STIFF]  : AREA, ASy, ASz, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
;  [WT]    :  bAUTO_TOR,  TOR,  bAUTO_SHR1,  SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EED, LRF, A, B, H, t
;  [WARPING  POINT]  :  nWarpingCheck,  X1,X2,X3,X4,X5,X6,
Y1,Y2,Y3,Y4,Y5,Y6
     1, PSC       , 일반부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, YES, 1.975, YES, 0.48,  YES, 0, YES, 0, YES, 0,
YES, 0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.18, 0.25
     23.5, 3, 0.5, 0.3, 0.3, 0.5, 1, 0
  2, PSC       , 연결부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, NO, 1.975, YES, 0.48,  YES, 0, YES, 0, YES, 0,
0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.18, 0.25
     23.5, 3, 1.5, 0.3, 0.3, 1, 1, 0
  3, PSC       , 지점부          , CT, 1, 0, 0, 0, 0, 0, NO,
NO, NCEL
     SLOPE, 3
     YES, YES, 1.525, YES, 0.78,  YES, 0, YES, 0, YES, 0,
YES, 0, 2.525, YES, NO
     NO, NO
     NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0
     2.525, 0.5, 0.2, 0.68, 0.9
     23.5, 3, 1.5, 0.1, 0.1, 2, 1, 0
*TENDON-GROUP    : Tendon Group
; NAME
; TD1
; TD2
; TD3
; TD4
; TD5
; TD6
; TD7
; TD8
; TD9
*TDN-PROPERTY    : Tendon Property
; NAME, TYPE, MATL, AREA, DIA, RM, RC, FF, WF, US, YS, LT,
ASB, ASE, bBROKEN, ALPHA, bTD,
     bOSRF, FT, LR, FPK, ACHANGE, bRELAX, TDMFNAME,
WobbleType, AngleDisp
  "0.5\"-7", INTERNAL, 2, 0.00069097, 0.054, 1, 5, 0.3, 0.0066,
1.86326e+006, 1.56906e+006, POST, 0.006, 0.006, YES, 0, , , ,, 0,
YES, 0, 0.022
  "0.5\"-13", INTERNAL, 2, 0.00187549, 0.087, 1, 5, 0.3, 0.0066,
1.86326e+006, 1.56906e+006, POST, 0.006, 0.006, YES, 0, , , ,, 0,
YES, 0, 0.022
*TDN-PROFILE    : Tendon Profile
; NAME=NAME, TDN-PROPERTY, ELEM_LIST, BEGIN, END,
CURVE, INPUT                : line 1
;           GROUP, LENGOPT, BLEN, ELEN, bTP, rNUM, DeBondBLEN,
DeBondELEN                  ; line 2
;       SHAPE, IP_X, IP_Y, IP_Z, AXIS, VX, VY
                    ; line 3(Straight)
;           SHAPE, IP_X, IP_Y, IP_Z, RC_X, RC_Y, OFFSET, DIR
                    ; line 3(Curve)
;                   SHAPE,      INS_PT,     REF_ELEM,   AXIS
                    ; line 3(Element)
;           XAR_ANGLE, bPROJECTION, GR_AXIX, GR_ANGLE
                    ; line 4(Straight/Curve)
;           XAR_ANGLE, bPROJECTION, OFFSET_Y, OFFSET_Z
                    ; line 4(Element)
;               X1,  Y1,  bFIX1,  RY1,  RZ1,  RADIUS1
                    ; from line 5(3D)
;       Xn, Yn, Zn, bFIX1, RY1, RZ1, RADIUSn
;       Y=X1, Y1, bFIX1, RZ1, RADIUS1, OPT1, ANGLE1, HGT1, R1
                    ; from line 5(2D)
;       Y=
;       Z=X1, Z1, bFIX1, RZ1, RADIUS1, OPT1, ANGLE1, HGT1, R1
;       Z=
  NAME=S1-L1, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 1, 1-j
        -25, YES, -8.75, 0
        0, 0, -0.574, NO, 0, 0, 0
        17, 0, -2.149, YES, 0, 0, 0
        45, 0, -0.1, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S1-L2, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 1, 1-j
        -25, YES, -8.75, 0
        0, 0, -1.024, NO, 0, 0, 0
        17, 0, -2.349, YES, 0, 0, 0
        45, 0, -0.3, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
  NAME=S1-L3, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 4, 0, 0
        ELEMENT, END-I, 1, 1-j
        0, YES, 0, 0
        0, 0, -0.574, NO, 0, 0, 0
        17, 0, -2.149, YES, 0, 0, 0
        45, 0, -0.1, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S1-M2, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 1, 1-j
        0, YES, 0, 0
        0, 0, -1.024, NO, 0, 0, 0
        17, 0, -2.349, YES, 0, 0, 0
        45, 0, -0.3, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
  NAME=S1-M3, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 1, 1-j
        0, YES, 0, 0
        0, 0, -1.474, NO, 0, 0, 0
        17, 0, -2.549, YES, 0, 0, 0
        45, 0, -0.5, YES, 0, 0, 0
        55, 0, -1.304, NO, 0, 0, 0
  NAME=S1-R1, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 1, 1-j
        25, YES, -8.75, 0
        0, 0, -0.574, NO, 0, 0, 0
        17, 0, -2.149, YES, 0, 0, 0
        45, 0, -0.1, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S1-R2, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 1, 1-j
        25, YES, -8.75, 0
        0, 0, -1.024, NO, 0, 0, 0
        17, 0, -2.349, YES, 0, 0, 0
        45, 0, -0.3, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
  NAME=S1-R3, "0.5\"-19", 1to7 43to51 69to72, 0, 0, SPLINE, 3D
        TD1, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 1, 1-j
        25, YES, -8.75, 0
        0, 0, -1.474, NO, 0, 0, 0
        17, 0, -2.549, YES, 0, 0, 0
        45, 0, -0.5, YES, 0, 0, 0
        55, 0, -1.304, NO, 0, 0, 0
  NAME=S2-L1, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 7, 1-j
        -25, YES, -8.75, 0
        0, 0, -0.468, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.205, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S2-L2, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 7, 1-j
        -25, YES, -8.75, 0
        0, 0, -0.708, NO, 0, 0, 0
        18, 0, -2.05, YES, 0, 0, 0
        43, 0, -0.405, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
  NAME=S2-L3, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 7, 1-j
        -25, YES, -8.75, 0
        0, 0, -0.948, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.605, YES, 0, 0, 0
        55, 0, -1.304, NO, 0, 0, 0
  NAME=S2-M1, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 4, 0, 0
        ELEMENT, END-I, 7, 1-j
        0, YES, 0, 0
        0, 0, -0.416, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.1, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S2-M2, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 7, 1-j
        0, YES, 0, 0
        0, 0, -0.655, NO, 0, 0, 0
        18, 0, -2.05, YES, 0, 0, 0
        43, 0, -0.3, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
  NAME=S2-M3, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 7, 1-j
        0, YES, 0, 0
        0, 0, -0.894, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.5, YES, 0, 0, 0
        55, 0, -1.304, NO, 0, 0, 0
  NAME=S2-R1, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 7, 1-j
        25, YES, -8.75, 0
        0, 0, -0.468, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.205, YES, 0, 0, 0
        55, 0, -0.744, NO, 0, 0, 0
  NAME=S2-R2, "0.5\"-19", 1to14 42 52to59 73to78, 0, 0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 7, 1-j
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        25, YES, -8.75, 0
        0, 0, -0.708, NO, 0, 0, 0
        18, 0, -2.05, YES, 0, 0, 0
        43, 0, -0.405, YES, 0, 0, 0
        55, 0, -1.024, NO, 0, 0, 0
    NAME=S2-R3, "0.5\"-19", 7to14  42  52to59  73to78,  0,  0,
SPLINE, 3D
        TD3, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 7, I-J
        25, YES, -8.75, 0
        0, 0, -0.948, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.605, YES, 0, 0, 0
        55, 0, -1.304, NO, 0, 0, 0
    NAME=S3-L1, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 14, I-J
        -25, YES, 8.75, 0
        0, 0, -0.508, NO, 0, 0, 0
        21, 0, -2.15, YES, 0, 0, 0
        51, 0, -0.205, YES, 0, 0, 0
        61, 0, -0.744, NO, 0, 0, 0
    NAME=S3-L2, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 14, I-J
        -25, YES, 8.75, 0
        0, 0, -0.753, NO, 0, 0, 0
        21, 0, -2.35, YES, 0, 0, 0
        51, 0, -0.405, YES, 0, 0, 0
        61, 0, -1.024, NO, 0, 0, 0
    NAME=S3-L3, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 14, I-J
        -25, YES, 8.75, 0
        0, 0, -0.998, NO, 0, 0, 0
        21, 0, -2.55, YES, 0, 0, 0
        51, 0, -0.605, YES, 0, 0, 0
        61, 0, -1.304, NO, 0, 0, 0
    NAME=S3-M1, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 4, 0, 0
        ELEMENT, END-I, 14, I-J
        0, YES, 0, 0
        0, 0, -0.462, NO, 0, 0, 0
        21, 0, -2.15, YES, 0, 0, 0
        51, 0, -0.1, YES, 0, 0, 0
        61, 0, -0.744, NO, 0, 0, 0
    NAME=S3-M2, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 14, I-J
        0, YES, 0, 0
        0, 0, -0.707, NO, 0, 0, 0
        21, 0, -2.35, YES, 0, 0, 0
        51, 0, -0.3, YES, 0, 0, 0
        61, 0, -1.024, NO, 0, 0, 0
    NAME=S3-M3, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 14, I-J
        0, YES, 0, 0
        0, 0, -0.952, NO, 0, 0, 0
        21, 0, -2.55, YES, 0, 0, 0
        51, 0, -0.5, YES, 0, 0, 0
        61, 0, -1.304, NO, 0, 0, 0
    NAME=S3-R1, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 14, I-J
        25, YES, -8.75, 0
        0, 0, -0.508, NO, 0, 0, 0
        21, 0, -2.15, YES, 0, 0, 0
        51, 0, -0.205, YES, 0, 0, 0
        61, 0, -0.744, NO, 0, 0, 0
    NAME=S3-R2, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 14, I-J
        25, YES, -8.75, 0
        0, 0, -0.753, NO, 0, 0, 0
        21, 0, -2.35, YES, 0, 0, 0
        51, 0, -0.405, YES, 0, 0, 0
        61, 0, -1.024, NO, 0, 0, 0
    NAME=S3-R3, "0.5\"-19", 14to21 60to68 79to82, 0, 0, SPLINE,
3D
        TD5, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 14, I-J
        25, YES, -8.75, 0
        0, 0, -0.998, NO, 0, 0, 0
        21, 0, -2.55, YES, 0, 0, 0
        51, 0, -0.605, YES, 0, 0, 0
        61, 0, -1.304, NO, 0, 0, 0
    NAME=S4-L1, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 21, I-J
        -25, YES, 8.75, 0
        0, 0, -0.469, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.205, YES, 0, 0, 0
        52, 0, -0.588, NO, 0, 0, 0
    NAME=S4-L2, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 21, I-J
        -25, YES, 8.75, 0
        0, 0, -0.708, NO, 0, 0, 0
        18, 0, -2.05, YES, 0, 0, 0
        43, 0, -0.405, YES, 0, 0, 0
        52, 0, -0.868, NO, 0, 0, 0
    NAME=S4-L3, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 21, I-J
        -25, YES, 8.75, 0
        0, 0, -0.9488, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.605, YES, 0, 0, 0
        52, 0, -1.148, NO, 0, 0, 0
    NAME=S4-M1, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 4, 0, 0
        ELEMENT, END-I, 21, I-J
        0, YES, 0, 0
        0, 0, -0.416, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.1, YES, 0, 0, 0
        52, 0, -0.588, NO, 0, 0, 0
    NAME=S4-M2, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 21, I-J
        0, YES, 0, 0
        0, 0, -0.655, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.3, YES, 0, 0, 0
        52, 0, -0.868, NO, 0, 0, 0
    NAME=S4-M3, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 21, I-J
        0, YES, 0, 0
        0, 0, -0.894, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.5, YES, 0, 0, 0
        52, 0, -1.148, NO, 0, 0, 0
    NAME=S4-R1, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 21, I-J
        25, YES, -8.75, 0
        0, 0, -0.469, NO, 0, 0, 0
        18, 0, -1.8, YES, 0, 0, 0
        43, 0, -0.205, YES, 0, 0, 0
        52, 0, -0.588, NO, 0, 0, 0
    NAME=S4-R2, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 21, I-J
        25, YES, -8.75, 0
        0, 0, -0.708, NO, 0, 0, 0
        18, 0, -2.05, YES, 0, 0, 0
        43, 0, -0.405, YES, 0, 0, 0
        52, 0, -0.868, NO, 0, 0, 0
    NAME=S4-R3, "0.5\"-19", 21to28 32to38 83to90, 0, 0, SPLINE,
3D
        TD7, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 21, I-J
        25, YES, -8.75, 0
        0, 0, -0.9488, NO, 0, 0, 0
        18, 0, -2.3, YES, 0, 0, 0
        43, 0, -0.605, YES, 0, 0, 0
        52, 0, -1.148, NO, 0, 0, 0
    NAME=S5-L1, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 28, I-J
        -25, YES, 8.75, 0
        0, 0, -0.375, NO, 0, 0, 0
        21, 0, -2.149, YES, 0, 0, 0
        39, 0, -0.58, YES, 0, 0, 0
    NAME=S5-L2, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 28, I-J
        -25, YES, 8.75, 0
        0, 0, -0.611, NO, 0, 0, 0
        21, 0, -2.349, YES, 0, 0, 0
        39, 0, -1.03, YES, 0, 0, 0
    NAME=S5-L3, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 28, I-J
        -25, YES, 8.75, 0
        0, 0, -0.846, NO, 0, 0, 0
        21, 0, -2.549, YES, 0, 0, 0
        39, 0, -1.48, YES, 0, 0, 0
    NAME=S5-M1, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 4, 0, 0
        ELEMENT, END-I, 28, I-J
        0, YES, 0, 0
        0, 0, -0.317, NO, 0, 0, 0
        21, 0, -2.149, YES, 0, 0, 0
        39, 0, -0.58, YES, 0, 0, 0
    NAME=S5-M2, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 28, I-J
        0, YES, 0, 0
        0, 0, -0.552, NO, 0, 0, 0
        21, 0, -2.349, YES, 0, 0, 0
        39, 0, -1.03, YES, 0, 0, 0
    NAME=S5-M3, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 6, 0, 0
        ELEMENT, END-I, 28, I-J
        0, YES, 0, 0
        0, 0, -0.788, NO, 0, 0, 0
        21, 0, -2.549, YES, 0, 0, 0
        39, 0, -1.48, YES, 0, 0, 0
    NAME=S5-R1, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 2, 0, 0
        ELEMENT, END-I, 28, I-J
        25, YES, -8.75, 0
        0, 0, -0.375, NO, 0, 0, 0
        21, 0, -2.149, YES, 0, 0, 0
        39, 0, -0.58, YES, 0, 0, 0
    NAME=S5-R2, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 28, I-J
        25, YES, -8.75, 0
        0, 0, -0.611, NO, 0, 0, 0
        21, 0, -2.349, YES, 0, 0, 0
        39, 0, -1.03, YES, 0, 0, 0
    NAME=S5-R3, "0.5\"-19", 28to31 39to41 91to94, 0, 0, SPLINE,
3D
        TD9, AUTO1,  , YES, 3, 0, 0
        ELEMENT, END-I, 28, I-J
        25, YES, -8.75, 0
        0, 0, -0.846, NO, 0, 0, 0
        21, 0, -2.549, YES, 0, 0, 0
        39, 0, -1.48, YES, 0, 0, 0
    NAME=Slab1-C1, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 1.2, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C2, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 0.8, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C3, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 0.4, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C4, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 0, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C5, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -0.4, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C6, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -0.8, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-C7, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -1.2, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L1, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 5.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L2, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 5.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L3, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 4.92, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L4, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 4.52, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L5, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 4.12, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L6, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 3.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-L7, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, 3.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R1, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -5.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R2, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -5.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R3, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -4.92, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R4, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -4.52, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R5, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -4.12, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R6, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -3.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab1-R7, "0.5\"-7", 3to8 69to72, 0, 0, SPLINE, 3D
        TD2, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 3, I-J
        0, YES, -3.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        13.5, 0, -0.1, NO, 0, 0, 0
        26, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C1, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 1.2, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C2, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 0.8, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C3, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 0.4, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C4, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 0, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C5, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, -0.4, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C6, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, -0.8, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-C7, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, -1.2, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L1, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 5.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L2, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 5.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L3, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 4.92, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L4, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 4.52, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L5, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 4.12, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L6, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 3.72, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-L7, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
        0, YES, 3.32, 0
        0, 0, -0.1, NO, 0, 0, 0
        14.5, 0, -0.1, NO, 0, 0, 0
        29, 0, -0.1, NO, 0, 0, 0
    NAME=Slab2-R1, "0.5\"-7", 10to15 73to78, 0, 0, SPLINE, 3D
        TD4, USER, 0, 0, NO,  , 0, 0
        ELEMENT, END-I, 10, I-J
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      0, YES, -5.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B2, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -5.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B3, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -4.92, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B4, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -4.52, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B5, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -4.12, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B6, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -3.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab2-B7, 0.5\"-7, 10to15 73to78, 0, 0, SPLINE, 3D
      TD4, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 10, I-J
      0, YES, -3.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C1, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 1.2, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C2, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 0.8, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C3, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 0.4, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C4, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 0, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C5, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -0.4, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C6, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -0.8, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-C7, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -1.2, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-L1, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 4.12, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-L6, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 3.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-L7, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, 3.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R1, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -5.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R2, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -5.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R3, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -4.92, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R4, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -4.52, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R5, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -4.12, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R6, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -3.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab3-R7, 0.5\"-7, 17to22 79to82, 0, 0, SPLINE, 3D
      TD6, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 17, I-J
      0, YES, -3.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      14.5, 0, -0.1, NO, 0, 0, 0
      29, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C1, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 1.2, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C2, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 0.8, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C3, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 0.4, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C4, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 0, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C5, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -0.4, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C6, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -0.8, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-C7, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -1.2, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L1, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 5.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L2, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 5.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L3, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 4.92, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L4, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 4.52, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L5, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 4.12, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L6, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 3.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-L7, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, 3.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R1, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -5.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R2, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -5.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R3, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -4.92, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R4, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -4.52, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R5, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -4.12, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R6, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -3.72, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
NAME=Slab4-R7, 0.5\"-7, 24to29 36to38 87to90, 0, 0, SPLINE,
3D
      TD8, USER, 0, 0, NO,  , 0, 0
      ELEMENT, END-I, 24, I-J
      0, YES, -3.32, 0
      0, 0, -0.1, NO, 0, 0, 0
      13.5, 0, -0.1, NO, 0, 0, 0
      26, 0, -0.1, NO, 0, 0, 0
*STLDCASE    : Static Load Cases
; LCNAME, LCTYPE, DESC
   Self , D
   2nd dead load, D
   Prestress1, USER,
   Prestress2, USER,
   전체온도하중(+), USER,
   전체온도하중(-), USER,
   상하연온도차(+), USER,
   상하연온도차(-), USER,
   풍하중(재하시), USER,
   풍하중(비재하시), USER,
*CONSTRAINT    : Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   18, 111000,
   16, 101000,
   3 9 27 36 44, 011000,
   1 7 25 34 42, 001000,
*ELASTICLINK    : Elastic Link
; iNO, iNODE1, iNODE2, LINK, ANGLE, R_SDx, R_SDy, R_SDz,
R_SRx, R_SRy, R_SRz, SDx, SDy, SDz, SRx, SRy, SRz,
;                                                    bSHEAR, DRy, DRz, GROUP
;                                                                          : GEN
; iNO, iNODE1, iNODE2, LINK, ANGLE, bSHEAR, DRy, DRz,
GROUP                                                                      :
RIGID,SADDLE
; iNO, iNODE1, iNODE2, LINK, ANGLE, SDx, bSHEAR, DRy, DRz,
GROUP                                                                      :
TENS,COMP
; iNO, iNODE1, iNODE2, LINK, ANGLE, DIR, FUNCTION, bSHEAR,
DRENDI, GROUP                                                  : MULTI
LINEAR
      1,      2,      1, RIGID,     0, NO, 0.5, 0.5, A1
      2,      2,      3, RIGID,     0, NO, 0.5, 0.5, A1
      3,      8,      7, RIGID,     0, NO, 0.5, 0.5, P1
      4,      8,      9, RIGID,     0, NO, 0.5, 0.5, P1
      5,     17,     18, RIGID,     0, NO, 0.5, 0.5, P2
      6,     17,     16, RIGID,     0, NO, 0.5, 0.5, P2
      7,     26,     25, RIGID,     0, NO, 0.5, 0.5, P3
      8,     26,     27, RIGID,     0, NO, 0.5, 0.5, P3
      9,     35,     36, RIGID,     0, NO, 0.5, 0.5, P4
     10,     35,     34, RIGID,     0, NO, 0.5, 0.5, P4
     11,     43,     44, RIGID,     0, NO, 0.5, 0.5, A2
     12,     43,     42, RIGID,     0, NO, 0.5, 0.5,
*RIGIDLINK    : Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
   55, 001110, 108 109,
*EFF-WIDTH    : Effective Width Scale Factor
; ELEM_LIST,  LYSCALE, ZTSCALE, ZBSCALE, bJ, LYSCALE_J,
ZTSCALE_J, ZBSCALE_J, GROUP
   4to6 11to13 18to20 25to27 36to38 69to72 75to77 , 0.8, 1, 1,
NO,          지정보
   8 82 89 90, 0.8, 1, 1, NO,          지정보
   1to3 7to10 14to17 21to24 28to35 39to68 73 74 , 0.95, 1, 1,
NO,          지정
   78to80 83to88 91to94, 0.95, 1, 1, NO, , , , 경간
*LOADTOMASS    : Load to Mass
; DIR, bNODAL, bBEAM, bFLOOR, bPRES, GRAV
; LCNAME1, FACTOR1, LCNAME2, FACTOR2, ...    : from line 1
   XYZ, YES, YES, YES, YES, 9.806
   2nd dead load, 5
*USE-STLD    Self
*SELFWEIGHT    : Self Weight
; X, Y, Z, GROUP
0, 0, -1,
; End of data for load case [Self] -------------------------
*USE-STLD, 2nd dead load
*BEAMLOAD    : Element Beam Loads
;  ELEM_LIST,  CMD,  TYPE,  DIR,  bPROJ,  [ECCEN],  [VALUE],
GROUP
;  ELEM_LIST, CMD,  TYPE, TYPE, DIR, VX, VY, VZ, bPROJ,
[ECCEN], [VALUE], GROUP
; [VALUE]          : D1, P1, D2, P2, D3, P3, D4, P4
; [ECCEN]          : bECCEN, ECCDIR, I-END, J-END, bJ-END
;  [ADDITIONAL1]    :  bADDITIONAL1,    ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_I-END,
      1, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, NO, 0, 0, NO,
      1, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      1, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      2, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      2, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      2, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      3, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      3, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      3, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      4, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      4, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      4, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      5, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      5, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      5, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      6, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      6, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      6, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      7, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      7, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      7, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      8, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      8, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
      8, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      9, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0 , NO, 0, 0, NO,
      9, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
      9, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
     10, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,  NO, 0, 0, NO,
     10, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0, 0,  NO, 0, 0, NO,
     10, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
```

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NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  11, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  11, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  11, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  12, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  12, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  12, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  13, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  13, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  13, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  14, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  14, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  14, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  15, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  15, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  15, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  16, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  16, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  16, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  17, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  17, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  17, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  18, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  18, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  18, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  19, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  19, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  19, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  20, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  20, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  20, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  21, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  21, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  21, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  22, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  22, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  22, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  23, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  23, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  23, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  24, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  24, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
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NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  65, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  66, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  66, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  67, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  67, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  67, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  68, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  68, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  68, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  69, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  69, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  69, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  70, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  70, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  70, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  71, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  71, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  71, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  72, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  72, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  72, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  73, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  73, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  73, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  74, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  74, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  74, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  75, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,    , NO, 0, 0, NO,
  75, BEAM    , UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0, , NO, 0, 0, NO,
  76, BEAM    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21
```

```
1, -21.39, 0, 0, 0, 0,   NO, 0, 0, NO,
   93. BEAM     UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,   NO, 0, 0, NO,
   94. BEAM     UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -21.39,
1, -21.39, 0, 0, 0,   NO, 0, 0, NO,
   94. BEAM     UNILOAD, GZ, NO , YES, 0, GY, -11.5, -11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,   NO, 0, 0, NO,
   94. BEAM     UNILOAD, GZ, NO , YES, 0, GY, 11.5, 11.5,
NO, 0, -5.55, 1, -5.55, 0, 0, 0, 0,   NO, 0, 0, NO,
;    End    of    data    for    load    case    [2nd    dead    load]
------------------------
*USE-STLD, Prestress1
*TDN-PRESTRESS    ; Tendon Prestress Loads
;    TDN-NAME,    FORCE/STRESS,    JACKING,    BEGIN,    END,
iGROUTING, GROUP
  S1-L1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-L2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-L3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-M1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-M2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-M3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-R1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-R2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S1-R3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-L1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-L2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-L3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-M1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-M2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-M3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-R1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-R2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S2-R3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-L1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-L2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-L3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-M1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-M2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-M3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-R1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-R2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S3-R3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-L1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-L2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-L3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-M1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-M2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-M3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-R1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-R2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S4-R3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-L1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-L2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-L3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-M1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-M2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-M3, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-R1, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-R2, FORCE, BOTH, 2407.32, 2407.32, 1,
  S5-R3, FORCE, BOTH, 2407.32, 2407.32, 1,
;    End    of    data    for    load    case    [Prestress1]
------------------------
*USE-STLD, Prestress2
*TDN-PRESTRESS    ; Tendon Prestress Loads
;    TDN-NAME,    FORCE/STRESS,    JACKING,    BEGIN,    END,
iGROUTING, GROUP
  Slab1-C1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-C7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-L7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab1-R7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-C7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-L7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab2-R7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-C7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-L7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab3-R7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-C7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-L7, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R1, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R2, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R3, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R4, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R5, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R6, FORCE, BOTH, 887.031, 887.031, 1,
  Slab4-R7, FORCE, BOTH, 887.031, 887.031, 1,
;    End    of    data    for    load    case    [Prestress2]
------------------------
*USE-STLD, 전체온도하중(+)
*SYSTEMPER    ; System Temperature
; SYSTEMP, GROUP
15,
;    End    of    data    for    load    case    [전체온도하중(+)]
------------------------
*USE-STLD, 전체온도하중(-)
*SYSTEMPER    ; System Temperature
; SYSTEMP, GROUP
-15,
;    End    of    data    for    load    case    [전체온도하중(-)]
------------------------
*USE-STLD, 상하연온도차(+)
*BSTEMPER    ; Beam Section Temperature
; ELM_LIST, DIR, REF, NUM, GROUP, bPSC                    ; line 1
;    TYPE1, ELAST1, THERMAL1, B1, H11, T11, H21, T21    ; line 2
;
;    TYPEn, ELASTn, THERMALn, Bn, H1n, T1n, H2n, T2n    ; line
n+1
;    TYPE, ELAST, THERMAL, REF, BOPT, B, H1OPT, H1, H2OPT,
H2, T1, T2 ; line 2(PSC)
  1, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  2, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  3, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  4, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  5, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  6, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  7, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  8, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  9, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  10, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  11, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  12, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  13, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  14, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  15, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  16, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  17, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  18, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  19, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  20, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  21, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  22, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  23, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  24, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  25, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  26, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  27, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  28, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  29, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  30, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  31, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  32, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  33, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  34, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  35, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  36, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  37, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  38, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  39, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  40, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  41, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  42, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  43, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
  44, LZ, Centroid, 1, , NO
    ELEMENT, 0, 0, 7.483, 1.11, 5, 1.36, 5
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;    End    of    data    for    load    case    [상하연온도차(+)]
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*USE-STLD, 상하연온도차(-)
*BSTEMPER    ; Beam Section Temperature
; ELM_LIST, DIR, REF, NUM, GROUP, bPSC                    ; line 1
;    TYPE1, ELAST1, THERMAL1, B1, H11, T11, H21, T21    ; line 2
;
;    TYPEn, ELASTn, THERMALn, Bn, H1n, T1n, H2n, T2n    ; line
n+1
;    TYPE, ELAST, THERMAL, REF, BOPT, B, H1OPT, H1, H2OPT,
H2, T1, T2 ; line 2(PSC)
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82. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
83. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
84. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
85. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
86. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
87. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
88. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
89. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
90. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
91. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
92. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
93. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
94. LZ. Centroid. 2. , NO
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
   ELEMENT.  0. 0.  7.483.  1.11. -5.  1.36. -5
;  End   of   data   for   load   case   [상하연온도차(-)]
------------------------------
*USE-STLD. 풍하중(재하시)
*BEAMLOAD  : Element Beam Loads
; ELEM_LIST. CMD. TYPE. TYPE. DIR. bPROJ. [ECCEN]. [VALUE]. GROUP
; ELEM_LIST. CMD. TYPE. TYPE. DIR. VX. VY. VZ. bPROJ. [ECCEN]. [VALUE]. GROUP
; [VALUE]        : D1. P1. D2. P2. D3. P3. D4. P4
; [ECCEN]        : bECCEN. ECCDIR. I-END. J-END. bJ-END
;  [ADDITIONAL]  :  bADDITIONAL.  ADDITIONAL_I-END. ADDITIONAL_J-END. bADDITIONAL_J-END
   1. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   2. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   3. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   4. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   5. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   6. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   7. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   8. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   9. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   10. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   11. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   12. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   13. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   14. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   15. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   16. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   17. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   18. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   19. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   20. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   21. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   22. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   23. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   24. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   25. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   26. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   27. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   28. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   29. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   30. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   31. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   32. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   33. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   34. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   35. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   36. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   37. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   38. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   39. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   40. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   41. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   42. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   43. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   44. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   45. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   46. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   47. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   48. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   49. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   50. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   51. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   52. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   53. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   54. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   55. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   56. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   57. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   58. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   59. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   60. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   61. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   62. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   63. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   64. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   65. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   66. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   67. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   68. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   69. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   70. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   71. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   72. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   73. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   74. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   75. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   76. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   77. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   78. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   79. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   80. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   81. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   82. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   83. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   84. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   85. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   86. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   87. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   88. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   89. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   90. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   91. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   92. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   93. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
   94. BEAM     UNILOAD. GY. NO   YES. 0. GZ. 0.374. 0.374.
NO. 0. 6. 1. 6. 0. 0. 0.    NO. 0. 0. NO.
;  End   of   data   for   load   case   [풍하중(재하시)]
------------------------------
*USE-STLD. 풍하중(비재하시)
*BEAMLOAD  : Element Beam Loads
; ELEM_LIST. CMD. TYPE. TYPE. DIR. bPROJ. [ECCEN]. [VALUE]. GROUP
; ELEM_LIST. CMD. TYPE. TYPE. DIR. VX. VY. VZ. bPROJ. [ECCEN]. [VALUE]. GROUP
; [VALUE]        : D1. P1. D2. P2. D3. P3. D4. P4
; [ECCEN]        : bECCEN. ECCDIR. I-END. J-END. bJ-END
;  [ADDITIONAL]  :  bADDITIONAL.  ADDITIONAL_I-END. ADDITIONAL_J-END. bADDITIONAL_J-END
   1. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   2. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   3. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   4. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   5. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   6. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   7. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   8. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   9. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   10. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   11. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   12. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   13. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   14. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   15. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   16. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   17. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   18. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   19. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   20. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   21. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   22. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   23. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   24. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   25. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   26. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   27. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   28. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   29. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   30. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   31. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   32. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   33. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   34. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   35. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1. 8.235. 0. 0. 0. 0. . NO. 0. 0. NO.
   36. BEAM     UNILOAD. GY. NO   YES. 0. GZ. -0.2535.
-0.2535. NO. 0. 8.235. 1.
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-0.2535, NO, 0, 8.235, 1, 8.235, 0, 0, 0,  NO, 0, 0, NO,
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   94, BEAM      UNILOAD, GY, NO  , YES, 0, GZ, -0.2535,
-0.2535, NO, 0, 8.235, 1, 8.235, 0, 0, 0,  NO, 0, 0, NO,
;    End    of    data    for    load    case    [종하중(비재하시)]
----------------------------------------
*MVLDCODE    : Moving Load Code
; CODE=CODE
    CODE=KOREA
*LINELANE    : Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW,
WS, bLANEOPT, ALLOWWIDTH    : line 1
;            iELEMI, ECCI, FACTI, bSPAN1, ECCVL, CENTF
;                    : from line 2
    NAME=Lane1, LANE,  0, 0, BOTH, 3, 1.8, NO, 0
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       45, 9.25, 0.176, NO, 0, 0,   46, 9.25, 0.176, NO, 0, 0
       47, 9.25, 0.176, NO, 0, 0,   48, 9.25, 0.176, NO, 0, 0
       49, 9.25, 0.176, NO, 0, 0,   50, 9.25, 0.176, NO, 0, 0
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       13, 9.25, 0.176, NO, 0, 0,   77, 9.25, 0.176, NO, 0, 0
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       64, 9.25, 0.176, NO, 0, 0,   65, 9.25, 0.176, NO, 0, 0
       66, 9.25, 0.176, NO, 0, 0,   67, 9.25, 0.176, NO, 0, 0
       68, 9.25, 0.176, NO, 0, 0,   17, 9.25, 0.176, NO, 0, 0
       79, 9.25, 0.176, NO, 0, 0,   80, 9.25, 0.176, NO, 0, 0
       81, 9.25, 0.176, NO, 0, 0,   82, 9.25, 0.176, NO, 0, 0
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       94, 9.25, 0.176, NO, 0, 0,   31, 9.25, 0.176, NO, 0, 0
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       81, 2.05, 0.176, NO, 0, 0,   82, 2.05, 0.176, NO, 0, 0
       18, 2.05, 0.176, NO, 0, 0,   19, 2.05, 0.176, NO, 0, 0
       20, 2.05, 0.176, NO, 0, 0,   21, 2.05, 0.176, NO, 0, 0
       22, 2.05, 0.176, NO, 0, 0,   23, 2.05, 0.176, NO, 0, 0
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       33, 2.05, 0.176, NO, 0, 0,   34, 2.05, 0.176, NO, 0, 0
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       85, 2.05, 0.176, NO, 0, 0,   86, 2.05, 0.176, NO, 0, 0
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       27, 2.05, 0.176, NO, 0, 0,   36, 2.05, 0.176, NO, 0, 0
       37, 2.05, 0.176, NO, 0, 0,   28, 2.05, 0.176, NO, 0, 0
       29, 2.05, 0.176, NO, 0, 0,   30, 2.05, 0.176, NO, 0, 0
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       92, 2.05, 0.176, NO, 0, 0,   93, 2.05, 0.176, NO, 0, 0
       94, 2.05, 0.176, NO, 0, 0,   31, 2.05, 0.176, NO, 0, 0
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        1, -1.55, 0.176, NO, 0, 0,    2, -1.55, 0.176, NO, 0, 0
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       45, -1.55, 0.176, NO, 0, 0,   46, -1.55, 0.176, NO, 0, 0
       47, -1.55, 0.176, NO, 0, 0,   48, -1.55, 0.176, NO, 0, 0
       49, -1.55, 0.176, NO, 0, 0,   50, -1.55, 0.176, NO, 0, 0
       51, -1.55, 0.176, NO, 0, 0,    3, -1.55, 0.176, NO, 0, 0
       69, -1.55, 0.176, NO, 0, 0,   70, -1.55, 0.176, NO, 0, 0
       71, -1.55, 0.176, NO, 0, 0,   72, -1.55, 0.176, NO, 0, 0
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        8, -1.55, 0.176, NO, 0, 0,    9, -1.55, 0.176, NO, 0, 0
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       73, -1.55, 0.176, NO, 0, 0,   74, -1.55, 0.176, NO, 0, 0
       75, -1.55, 0.176, NO, 0, 0,   76, -1.55, 0.176, NO, 0, 0
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       13, -1.55, 0.176, NO, 0, 0,   77, -1.55, 0.176, NO, 0, 0
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       15, -1.55, 0.176, NO, 0, 0,   16, -1.55, 0.176, NO, 0, 0
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       68, -1.55, 0.176, NO, 0, 0,   17, -1.55, 0.176, NO, 0, 0
       79, -1.55, 0.176, NO, 0, 0,   80, -1.55, 0.176, NO, 0, 0
       81, -1.55, 0.176, NO, 0, 0,   82, -1.55, 0.176, NO, 0, 0
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       20, -1.55, 0.176, NO, 0, 0,   21, -1.55, 0.176, NO, 0, 0
       22, -1.55, 0.176, NO, 0, 0,   23, -1.55, 0.176, NO, 0, 0
       32, -1.55, 0.176, NO, 0, 0,   35, -1.55, 0.176, NO, 0, 0
       33, -1.55, 0.176, NO, 0, 0,   34, -1.55, 0.176, NO, 0, 0
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       85, -1.55, 0.176, NO, 0, 0,   86, -1.55, 0.176, NO, 0, 0
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       27, -1.55, 0.176, NO, 0, 0,   36, -1.55, 0.176, NO, 0, 0
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       40, -1.55, 0.176, NO, 0, 0,   91, -1.55, 0.176, NO, 0, 0
       92, -1.55, 0.176, NO, 0, 0,   93, -1.55, 0.176, NO, 0, 0
       94, -1.55, 0.176, NO, 0, 0,   31, -1.55, 0.176, YES, 0,
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       45, -5.15, 0.176, NO, 0, 0,   46, -5.15, 0.176, NO, 0, 0
       47, -5.15, 0.176, NO, 0, 0,   48, -5.15, 0.176, NO, 0, 0
       49, -5.15, 0.176, NO, 0, 0,   50, -5.15, 0.176, NO, 0, 0
       51, -5.15, 0.176, NO, 0, 0,    3, -5.15, 0.176, NO, 0, 0
       69, -5.15, 0.176, NO, 0, 0,   70, -5.15, 0.176, NO, 0, 0
       71, -5.15, 0.176, NO, 0, 0,   72, -5.15, 0.176, NO, 0, 0
        4, -5.15, 0.176, NO, 0, 0,    5, -5.15, 0.176, NO, 0, 0
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        8, -5.15, 0.176, NO, 0, 0,    9, -5.15, 0.176, NO, 0, 0
       52, -5.15, 0.176, NO, 0, 0,   53, -5.15, 0.176, NO, 0, 0
       54, -5.15, 0.176, NO, 0, 0,   55, -5.15, 0.176, NO, 0, 0
       42, -5.15, 0.176, NO, 0, 0,   56, -5.15, 0.176, NO, 0, 0
       57, -5.15, 0.176, NO, 0, 0,   58, -5.15, 0.176, NO, 0, 0
       59, -5.15, 0.176, NO, 0, 0,   10, -5.15, 0.176, NO, 0, 0
       73, -5.15, 0.176, NO, 0, 0,   74, -5.15, 0.176, NO, 0, 0
       75, -5.15, 0.176, NO, 0, 0,   76, -5.15, 0.176, NO, 0, 0
       11, -5.15, 0.176, NO, 0, 0,   12, -5.15, 0.176, NO, 0, 0
       13, -5.15, 0.176, NO, 0, 0,   77, -5.15, 0.176, NO, 0, 0
       78, -5.15, 0.176, NO, 0, 0,   14, -5.15, 0.176, NO, 0, 0
       15, -5.15, 0.176, NO, 0, 0,   16, -5.15, 0.176, NO, 0, 0
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       62, -5.15, 0.176, NO, 0, 0,   63, -5.15, 0.176, NO, 0, 0
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       68, -5.15, 0.176, NO, 0, 0,   17, -5.15, 0.176, NO, 0, 0
       79, -5.15, 0.176, NO, 0, 0,   80, -5.15, 0.176, NO, 0, 0
       81, -5.15, 0.176, NO, 0, 0,   82, -5.15, 0.176, NO, 0, 0
       18, -5.15, 0.176, NO, 0, 0,   19, -5.15, 0.176, NO, 0, 0
       20, -5.15, 0.176, NO, 0, 0,   21, -5.15, 0.176, NO, 0, 0
       22, -5.15, 0.176, NO, 0, 0,   23, -5.15, 0.176, NO, 0, 0
       32, -5.15, 0.176, NO, 0, 0,   35, -5.15, 0.176, NO, 0, 0
       33, -5.15, 0.176, NO, 0, 0,   34, -5.15, 0.176, NO, 0, 0
       83, -5.15, 0.176, NO, 0, 0,   84, -5.15, 0.176, NO, 0, 0
       85, -5.15, 0.176, NO, 0, 0,   86, -5.15, 0.176, NO, 0, 0
       24, -5.15, 0.176, NO, 0, 0,   87, -5.15, 0.176, NO, 0, 0
       88, -5.15, 0.176, NO, 0, 0,   89, -5.15, 0.176, NO, 0, 0
       90, -5.15, 0.176, NO, 0, 0,   25, -5.15, 0.176, NO, 0, 0
       38, -5.15, 0.176, NO, 0, 0,   26, -5.15, 0.176, NO, 0, 0
       27, -5.15, 0.176, NO, 0, 0,   36, -5.15, 0.176, NO, 0, 0
       37, -5.15, 0.176, NO, 0, 0,   28, -5.15, 0.176, NO, 0, 0
       29, -5.15, 0.176, NO, 0, 0,   30, -5.15, 0.176, NO, 0, 0
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       40, -5.15, 0.176, NO, 0, 0,   91, -5.15, 0.176, NO, 0, 0
       92, -5.15, 0.176, NO, 0, 0,   93, -5.15, 0.176, NO, 0, 0
       94, -5.15, 0.176, NO, 0, 0,   31, -5.15, 0.176, YES, 0,
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       45, -8.75, 0.176, NO, 0, 0,   46, -8.75, 0.176, NO, 0, 0
       47, -8.75, 0.176, NO, 0, 0,   48, -8.75, 0.176, NO, 0, 0
       49, -8.75, 0.176, NO, 0, 0,   50, -8.75, 0.176, NO, 0, 0
       51, -8.75, 0.176, NO, 0, 0,    3, -8.75, 0.176, NO, 0, 0
       69, -8.75, 0.176, NO, 0, 0,   70, -8.75, 0.176, NO, 0, 0
       71, -8.75, 0.176, NO, 0, 0,   72, -8.75, 0.176, NO, 0, 0
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        8, -8.75, 0.176, NO, 0, 0,    9, -8.75, 0.176, NO, 0, 0
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       42, -8.75, 0.176, NO, 0, 0,   56, -8.75, 0.176, NO, 0, 0
       57, -8.75, 0.176, NO, 0, 0,   58, -8.75, 0.176, NO, 0, 0
       59, -8.75, 0.176, NO, 0, 0,   10, -8.75, 0.176, NO, 0, 0
       73, -8.75, 0.176, NO, 0, 0,   74, -8.75, 0.176, NO, 0, 0
       75, -8.75, 0.176, NO, 0, 0,   76, -8.75, 0.176, NO, 0, 0
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       37, -8.75, 0.176, NO, 0, 0,   28, -8.75, 0.176, NO, 0, 0
       29, -8.75, 0.176, NO, 0, 0,   30, -8.75, 0.176, NO, 0, 0
       41, -8.75, 0.176, NO, 0, 0,   39, -8.75, 0.176, NO, 0, 0
       40, -8.75, 0.176, NO, 0, 0,   91, -8.75, 0.176, NO, 0, 0
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        92, -8.75, 0.176, NO, 0, 0,     93, -8.75, 0.176, NO, 0,
0
        94, -8.75, 0.176, NO, 0, 0,     31, -8.75, 0.176, YES, 0,
0
*LSUPPORT     : Lane Supports - Negative Moments at Interior
Piers
; iTYPE, ELEM_LIST, POSITION      : (When iTYPE=0)
; iTYPE, GRUP-NAME                : (When iTYPE=1)
;   0, 4to25by7 5to26by7, BOTH
*VEHICLE      : Vehicles
; if Moving Load Code is China
;        NAME=NAME,          1,          TYPE-NAME,          CODE
;                                        : standard
; NAME=NAME, 2, LTYPE, [TRUCK/LANE] or [TRAIN/SUBWAY]
or [CROWD]                              : user: line 1
;                LOAD1,      DIST1,      LOAD2,      DIST2,      ...
;                                        : user: from line 2
;      [TRUCK/LANE]  :          1,          P,         Qm,         Qq
;                                        : truck(JTG)
;      [TRUCK/LANE]  :          2,          P,         Qm,         Qq
;                                        : lane load1
;      [TRUCK/LANE]  :          3,         Qk,        Pk1,         L1,        Pk2,         L2
;                                        : lane load2
;      [TRUCK/LANE]  :          4,         dW,         dD
;                                        : crawler type
;                [TRUCK/LANE]  :                                  5
;                                        : GC type load
;      [TRAIN/SUBWAY]  :      iTYPE,         W1,         D1,         W2,         D2
;                                        : train-type1 3
;      [TRAIN/SUBWAY]  :      iTYPE,         DD,         FD,         BD,   MAINCOUNT
;                                        : train-type2
; [TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, D3, P4, dD, Po, n,
IFR                                     : subway
;                [CROWD]  :                                       1,         dW1
;                                        : crowd-type1
;      [CROWD]  :          2,         dW1,        dL1,         dW2,        dL2,      WIDTH
;                                        : crowd-type2
; if Moving Load Type is India
;        NAME=NAME,          1,          TYPE-NAME,          CODE
;                                        : standard
; NAME=NAME, 2, bWTB, P, D, Pb, Db, dD1, dD2, NDIST
;                                        : user: line 1
;      NAME=NAME,          2,       bWTB,         dD1,         dD2,      NDIST
;                                        : user: line 1
;                LOAD1,      DIST1,      LOAD2,      DIST2,      ...
;                                        : user: from line 2
; if Moving Load Code is CANADA
;        NAME=NAME,          1,          TYPE-NAME,          DLA,        CODE,      [DYNA]
;                                        : standard
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2),
NDIST, [DYNA]                           : user: line 1
;                LOAD1,      DIST1,      LOAD2,      DIST2,      ...
;                                        : user: from line 2
;      [DYNA]  :      nDYNA,    FACT1AXLE,    FACT2AXLE,    FACT3AXLE
;                                        : Dynamic Load Allowance
; if Moving Load Code is BS
;        NAME=NAME,          1,          TYPE-NAME,          CODE,      UNITNUM
;                                        : standard
;      NAME=nLane,     FACTOR1,     FACTOR2,     FACTOR3,     FACTOR4,
ADDDATA, AL, CA, LL                     : HA, HA & HB, HA &
HB(Auto)
; NAME=nLane, FACTOR1, FACTOR2, FACTOR3, FACTOR4, CA,
LL                                      : ALL MODEL 2(UDL+KEL)
; NAME=NAME, 2, iSTYPE, W1, W2, W3, L, Pa, Pb, D1, D2, d,
UNITNUM                                 : user(BS 5400)
;      NAME=NAME,          2,      iSTYPE,   [BD37/01-HA],   [BS-DATA-LF]
                                        : user(HA)
;        NAME=NAME,          2,      iSTYPE,   [BS-DATA-HB]
                                        : user(HB)
; NAME=NAME, 2, iSTYPE, [BD37/01-HA2], [BS-DATA-HB2],
[BS-DATA-LF]                            : user(HA&HB)
;      NAME=NAME,          2,      iSTYPE,   [BD37/01-HA],   [BD37/01-HB],
[BS-DATA-LF]                            : user(HA&HB(AUTO))
;        NAME=NAME,          2,      iSTYPE,         W,         L
                                        : user(Pedestrian)
; NAME=NAME, 2, iSTYPE, V, AN, MINS, MAXS, P1, D1, P2, D2,
...                                     : user(Special Vehicle)
; [BS-DATA-HA] : W1, W2, W3, EXP, EXP2, L1, L2, Pa
; [BS-DATA-HA2] : W1, W2, W3, EXP, EXP2, L1, L2
; [BS-DATA-HB] : Pb, D1, D2, d, UNITNUM
; [BS-DATA-HB2] : Pb, D1, D2, d, dd, UNITNUM
; [BS-DATA-LF] : nLF, LF1, LF2, LF3, LF4
; if Moving Load Code is EUROCODE
; NAME=NAME, 1, iTYPE, TYPE-NAME, PSY1, PSY2, PHI, [AF7]
                                        : standard (LM1, FLM1)
; NAME=NAME, 1, iTYPE, TYPE-NAME, bDF, bU, PHI, PSY, ADJ,
iN                                      : standard (others)
;        NAME=NAME,          2,          1,                   [AF7]
                                        : user(Type 1)
;                                       [LOAD7],         D,       PHI,      TPSY,      UPSY
                                        : user(Type 1): line 2
; NAME=NAME, 2, 2, ALF, TPSY, W, BE1, LPSY, P1, D1, P2, D2,
...                                     : user(Type 2)
;        NAME=NAME,          2,          3
                                        : user(Type 3)
;                                                                                   [LOADCASE1]
                                        : user(Type 3): line 2
;                                                                                   [LOADCASE2]
                                        : user(Type 3): line 3
;                                                                                   [LOADCASE3]
                                        : user(Type 3): line 4
; NAME=NAME, 2, 4, WS, V, AN, MINS, MAXS, DYF, UI, F, P1,
D1, P2, D2, ...                         : user(Type 4)
;        NAME=NAME,          2,          5,        INT,      bPHI1,       PHI1,      bPHI2,       PHI2
                                        : user(Type 5)
;                                                                                   [VEHICLE1]
                                        : user(Type 5): line 2
;                                                                                   [VEHICLE2]
                                        : user(Type 5): line 3
;                                                                                   [VEHICLE3]
                                        : user(Type 5): line 4
;      [AF7]  :      TF1,       TF2,       TF3,       UF1,       UF2,       UF3,       UF4
                                        : adjustment factor
;      [LOAD7]  :      TL1,       TL2,       TL3,       UL1,       UL2,       UL3,       UL4
                                        : tandem/udl loads
; [LOADCASE] : bUSE, N, bDD, bUI, PHI, P1, L1, P2, L2, ...
                                        : load case
;      [VEHICLE]  :      bUSE,         N,         P1,         L1,         P2,         L2,      ...
                                        : vehicle
; if Moving Load Code is RUSSIA
; NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, bFATI,
nLOADFAC, dLOADFAC                      : standard (SK)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC, bFATI,
nLOADFAC, dLOADFAC                      : standard (SK FATIGUE)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC,
dDYNAFAC_UDL,                           bFATI, nLOADFAC, dLOADFAC,
dLOADFAC_UDL, s1[3], s1_UDL[3]          : standard (AK)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC,
nLOADFAC, dLOADFAC,                     bTWOVEHI, TWOVEHI_FACT, b2NDREDUC,
2NDREDUC_FACT                           : standard (N14)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC, dDYNAFAC,
nLOADFAC, dLOADFAC,                     bTWOVEHI, TWOVEHI_FACT, b2NDREDUC,
2NDREDUC_FACT                           : standard (N11)
; NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
,                                       bFATI, nLOADFAC, dLOADFAC,
dEMPTYCAR                               : standard (SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC, dDYNAFAC,
dEMPTYCAR                               bFATI, nLOADFAC, dLOADFAC,
dEMPTYCAR                               : standard (TRAMCARS)
; NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC, bFATI,
nLOADFAC, dLOADFAC                      : standard (NK-80)
; NAME=NAME, 1, iTYPE, W, D, nDYNAFAC, dDYNAFAC, bFATI,
nLOADFAC, dLOADFAC                      : standard (NG-60)
; NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI, nLOADFAC,
dLOADFAC                                : standard (UNIFORM LOAD)
; NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI, nLOADFAC,
dLOADFAC                                : standard (UNIFORM
LOAD(W/O OTHER LOADS))
;      NAME=NAME,          1,       iTYPE,   BRIDGETYPE,         P
                                        : standard (CONCENTRATED LOAD
(W/O OTHER LOADS))
; NAME=NAME, 2, iTYPE, W, nDYNAFAC, dDYNAFAC,
dDYNAFAC_UDL                            bFATI, nLOADFAC, dLOADFAC,
dLOADFAC_UDL, s1[3], s1_UDL[3]          : user (Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
,                                       bFATI, nLOADFAC, dLOADFAC,
dEMPTYCAR                               : user (Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC, dDYNAFAC,
dEMPTYCAR                               bFATI, nLOADFAC, dLOADFAC,
dEMPTYCAR                               : user (Type 3)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, nLOADFAC,
dLOADFAC                                bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT                : user (Type 4)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, nLOADFAC,
dLOADFAC                                : line 1
;                                                   ANAL1,     LCNAME1,      FACT1,      ...
;                                                   : from line 2
;      NAME=우두하중, GEN, ACTIVE, 0, 1, 0, 0, 0
;        ST, 전체온도하중(+), 1, ST, 전체온도하중(-), 1, ST, 상하연온
도차(+), 1
;        ST, 상하연온도차(-), 1
;      NAME=유효프리스트레스, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Prestress1, 1, ST, Prestress2, 1
;      NAME=svr1, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1, ST, 2nd dead load, 1, MV, Moving, 1, SM, 지
점침하, 1
;        CB, 유효프리스트레스, 1
;      NAME=svr2, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        CB, 온도하중, 1, CB, svr1, 1
;      NAME=svr3, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, 풍하중(재하시), 1, CB, 온도하중, 1, CB, svr1, 1
;      NAME=svr4, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, 풍하중(재하시), 1, CB, 온도하중, 1, CB, svr1, 1
;      NAME=svr_env, GEN, ACTIVE, 0, 1, , 0, 0, 0
;        CB, svr1, 1, CB, svr2, 1, CB, svr3, 1, CB, svr4, 1
;      NAME=ult1, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.3, ST, 2nd dead load, 1.3, MV, Moving, 2.15
;        CB, 유효프리스트레스, 1
;      NAME=ult2, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.3, ST, 2nd dead load, 1.3, ST, 풍하중(비재하
시), 1.3
;        CB, 유효프리스트레스, 1
;      NAME=ult3, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.3, ST, 2nd dead load, 1.3, ST, 풍하중(재하시),
0.65
;        MV, Moving, 1.3, CB, 유효프리스트레스, 1
;      NAME=ult4, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.3, ST, 2nd dead load, 1.3, MV, Moving, 1.3
;        SM, 지점침하, 1.3, CB, 온도하중, 1.3, CB, 유효프리스트레스,
1
;      NAME=ult5, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.25, ST, 2nd dead load, 1.25, ST, 풍하중(비재하
시), 1.25
;        SM, 지점침하, 1.25, CB, 온도하중, 1.25, CB, 유효프리스트레
스, 1
;      NAME=ult6, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1.25, ST, 2nd dead load, 1.25, ST, 풍하중(재하
시), 0.625
;        MV, Moving, 1.25, SM, 지점침하, 1.25, CB, 온도하중, 1.25
;        CB, 유효프리스트레스, 1
;      NAME=ult-env, GEN, ACTIVE, 0, 1, , 0, 0, 0
;        CB, ult1, 1, CB, ult2, 1, CB, ult3, 1, CB, ult4, 1, CB, ult5,
1
;        CB, ult6, 1
;      NAME=사하중, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        ST, Self, 1, ST, 2nd dead load, 1
;      NAME=활하중, GEN, ACTIVE, 0, 0, , 0, 0, 0
;        MV, Moving, 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, Self, 192, 128, 0, 93, 255, 87, 163, 160, 255
; ST, 2nd dead load, 255, 87, 128, 78, 0, 255, 255, 160, 255
; ST, Prestress1, 85, 192, 0, 255, 192, 87, 0, 128, 192
; ST, Prestress2, 255, 87, 87, 255, 192, 87, 255, 192, 87
; ST, 전체온도하중(+), 255, 192, 160, 163, 160, 255, 0, 128, 128
; ST, 전체온도하중(-), 163, 255, 160, 255, 160, 255, 192, 0, 128
; ST, 상하연온도차(+), 0, 192, 128, 255, 192, 87, 212, 160, 255
; ST, 상하연온도차(-), 192, 192, 192, 255, 255, 87, 78, 0, 255
; MV, Moving, 128, 192, 0, 192, 192, 0, 255, 255, 87
; SM, 지점침하, 255, 255, 87, 192, 0, 128, 0, 192, 192
; ST, 풍하중(재하시), 192, 192, 192, 192, 192, 192, 0, 128, 128
; ST, 유효프리스트레스, 160, 192, 255, 93, 255, 87, 255, 0, 128
; ST, 온도하중, 78, 0, 255, 0, 157, 192, 192, 192, 0
; CB, 유효프리스트레스, 160, 192, 255, 93, 255, 87, 255, 0, 128
; CB, svr1, 255, 255, 87, 255, 160, 255, 212, 160, 255
; CB, svr2, 255, 0, 128, 192, 0, 128, 255, 160, 255
; CB, svr3, 128, 192, 0, 255, 128, 0, 192, 192, 0
; CB, svr4, 163, 160, 255, 0, 128, 57, 255, 255, 87
; CB, svr_env, 128, 192, 0, 0, 192, 128, 128, 192, 0
; CB, ult1, 160, 255, 255, 0, 192, 192, 163, 255, 160
; CB, ult2, 192, 72, 0, 146, 0, 255, 85, 0, 192
; CB, ult3, 0, 128, 57, 255, 87, 128, 255, 87, 128
; CB, ult4, 85, 192, 0, 255, 255, 87, 255, 87, 87
; CB, ult5, 255, 0, 192, 85, 192, 0, 255, 255, 87
; CB, ult6, 148, 87, 255, 255, 87, 87, 148, 87, 255
; CB, ult-env, 160, 192, 255, 0, 128, 192, 192, 128, 0
; CB, 사하중, 255, 87, 87, 85, 192, 0, 255, 0, 128
; CB, 활하중, 0, 128, 255, 160, 255, 255, 0, 128, 57
*EIGEN-CTRL   : Eigenvalue Analysis Control
;   TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX, FRMIN, FRMAX,
bSTRUM     : TYPE=EIGEN
;                TYPE,                                bINCNL,                                iGNUM
; : TYPE=RITZ(line 1)
;                                                     KIND1,      CASE1/GROUND1,      iNOG1,      ...
; : TYPE=RITZ(from line2)
;   LANCZOS, 50, 20, 1, 1e-010, NO, 0, 0, NO
*MOVE-CTRL    : Moving Load Analysis Control
;   METHOD, POINT, iGP, iGPN/DIST, MATTYPE, BRIDGETYPE,
AKMATTYPE, AKBRIDGETYPE, MINEACLS2, PLATE, bSTRCALC,
bCONCURRENT, bCONCLINK, FRAME, bCSTRCALC, bREAC, bRG,
RGN, bDISP, bDG, DGN, bFM, bFG, FGN, bL, bLG, LGN, MAXV,
INCV, MAXSPACE
;   EXACT, ALL, 0, 5, 1, 0, 1, 0, 0.8, NODAL, NO, NO, NO,
AXIAL, YES, YES, NO, , YES, NO, , YES, NO,
;   10, 1, 8.5
*DGN-MAT      : 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
;   iMAT,                TYPE,                MNAME,                [DATA5]
; : STEEL(None) & KSCE-ASD05
; [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, bFCI,
FCI
; [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
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
;   1, CONC ,  C40                  ,  1, KS01-Civil(RC),
,C40                    , NO, 1, NO, 0, , , 0, 0, 28000, NO, 0, 0,
                        , 0, NO, 1, , , , 0, 0, 0
*ENDDATA
```

◇ Output Data ◇

```
**************************************************************
**************************************************************
**      MIDAS/Civil V.9.0.0      Modeling, Integrated Design **
& Analysis Software                                           **
**                                CIVIL STRUCTURE DESIGN
SYSTEM                                                        **
**************************************************************
**************************************************************

                    XXX      XXX          XX        XXXXXXXX
XXXXXXX   XXXXXXXX
                    XXXX XXXX      XX     XX      XX      XX
XX    XX    XX
                    XX XXX XX      XX     XX      XX      XX
XX    XX
                    XX    X    XX        XX      XX      XX
XXXXXXX   XXXXXXXX
                    XXX      XX     XXX     XXX     XX      XX
XX          XXX
                    XXX      XX     XXX     XXX     XX      XXX
XX    XX    XXX
                    XXX      XX     XXX     XXX     XX      XXX
XX    XX    XXX
                    XXX      XX     XXX     XXXXXXXX        XXX
XX    XXXXXXXX  /Civil

                                VERSION 9.0.0

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                    ANALYSIS    RESULT    OUTPUTS

                    ---------------------------

LOAD    SET    FOR    ELEMENT    OUTPUTS    -    Load    Set    1
--------------------------------------------------------------
--------------------------------------------

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

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

<<    SELECTED    LOAD    CASE/COMBINATION    DETAIL    LIST    >>

[Selected                Load                Combinations]

   L.          COMB                                          TYPE
COMBINATION DETAIL
   --------                                               ----------
--------------------------------------------------------------
--------------------------------------------
   svr_env      Gen.Envl      1.000 x svr1      ,    1.000 x svr2
,    1.000 x svr3      ,    1.000 x svr4
   ult-env      Gen.Envl      1.000 x ult1      ,    1.000 x ult2      ,
1.000 x ult3      ,    1.000 x ult4
                                1.000 x ult5      ,    1.000 x ult6

--------------------------------------------------------------
--------------------------------------------

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

-----------------------------------------------

   ELEM     MAT     SEC                LC                PT                AXIAL
SHEAR-y    SHEAR-z    TORSION    MOMENT-y    MOMENT-z
------ ------ ------ ------------ --- ---------- ----------
---------- ---------- ---------- ----------
     1      1      3  svr_env Max    I   -64194.5          110.5
-139.8      7789.5      3789.1          7.4
                                                   J   -64813.9          103.3
991.8      7487.0      6628.1         15.9
                                                 Min   I   -64197.5           -9.4
-3057.1    -7162.0      3789.1         -6.8
                                                   J   -64816.9           -9.4
-1821.7    -6883.6      3382.5       -132.6
                                 ult-env  Max    I   -64190.0          182.0
-1817.9     16747.4      3789.1         15.8
                                                   J   -64809.4          169.2
-414.0      16097.0     11582.8         34.0
                                                 Min   I   -64195.8           -20.1
-7566.3    -15265.3      3789.1        -14.4
                                                   J   -64815.2           -20.1
-5883.6    -14672.5      5240.2       -210.7
     2      1      1  svr_env Max    I   -64803.4          103.3
991.8      7486.0     -2655.2         24.4
                                                   J   -66482.3           84.8
2077.0      6638.6        77.3         48.5
                                                 Min   I   -64810.1           -9.4
-1821.7    -6868.9     -5900.7       -140.4
                                                   J   -66489.0           -9.4
-514.4     -6089.6    -10675.0       -425.7
                                 ult-env  Max    I   -64794.0          169.2
-414.0      16094.9      2299.6         52.4
                                                   J   -66472.9          136.2
973.6      14272.9     15757.1        103.8
                                                 Min   I   -64806.9           -20.1
-5883.6    -14670.6     -4043.0       -210.6
                                                   J   -66485.8           -20.1
-3927.9    -13009.9     -4919.9       -680.8
     3      1      1  svr_env Max    I   -77220.7            8.3
863.3      5180.5     40787.1        285.1
                                                   J   -78560.1            8.3
1958.8      5155.1     39979.8        342.1
                                                 Min   I   -77227.0           -99.2
-1676.0    -5401.6      4383.5       -449.8
                                                   J   -78566.4          -113.7
-679.4     -5432.5      4427.9       -269.4
                                 ult-env  Max    I   -77211.7           17.8
4289.3      11096.3     55983.6        608.6
                                                   J   -78551.1           17.8
5855.1      11029.9     47408.9        653.6
                                                 Min   I   -77223.5          -160.6
-413.0     -11613.4      4537.3       -541.2
                                                   J   -78562.9          -186.5
831.7      -11679.8      -144.5       -581.3
     4      1      3  svr_env Max    I   -85902.8            8.3
11150.4      6931.1     22098.4       1711.4
                                                   J   -86706.4            8.3
13614.1      7140.2     14493.9       1867.8
                                                 Min   I   -85902.8          -171.8
7948.3     -7527.3    -21690.7       -338.1
                                                   J   -86706.4          -177.2
10345.4    -7754.5    -31678.8       -345.0
                                 ult-env  Max    I   -85902.8           17.8
16962.9     14751.5      5905.8      2383.2
                                                   J   -86706.4           17.8
19748.1     15196.8     -4020.0      2648.6
                                                 Min   I   -85902.8          -290.1
10416.7    -16183.6    -55094.1       -729.5
                                                   J   -86706.4          -299.7
13017.9    -16672.1    -69887.0       -744.4
     5      1      3  svr_env Max    I   -86763.9          167.1
-10195.5     8431.3     14539.9      1867.8
                                                   J   -87117.0          161.7
-8045.5      8206.2     23070.8      1721.4
                                                 Min   I   -86763.9           -9.9
-13805.6    -7755.3    -31632.8       -345.0
                                                   J   -87117.0           -9.9
-11587.0    -7548.2    -20642.1       -337.6
                                 ult-env  Max    I   -86763.9          278.6
-12743.3     18127.2     -3974.0      2648.6
                                                   J   -87117.0          268.9
-10389.2     17643.4      6773.9      2402.2
                                                 Min   I   -86763.9           -21.2
-20025.6    -16523.1    -69841.0       -744.4
                                                   J   -87117.0           -21.2
-17483.0    -16082.1    -54198.0       -728.5
     6      1      2  svr_env Max    I   -87104.9          161.7
-8045.5      8206.3     18000.1      1727.9
                                                   J   -81232.2          125.1
452.1       6625.3     39385.6       864.6
                                                 Min   I   -87108.5           -9.9
-11587.0    -7540.9    -25712.9       -343.6
                                                   J   -81235.8           -9.9
-2656.2     -6086.2      5066.7       -294.1
                                 ult-env  Max    I   -87099.3          268.9
-10389.2     17643.5      1703.2      2402.3
                                                   J   -81226.6          203.6
-1060.4      14244.5     35981.5        961.0
                                                 Min   I   -87106.3           -21.2
-17483.0    -16082.2    -59268.7       -741.4
                                                   J   -81233.7           -21.2
-7036.5     -12983.9     -9314.0       -634.8
     7      1      2  svr_env Max    I  -145265.6          125.1
7773.4      6624.8     62061.8       875.7
                                                   J  -144690.9          107.1
9865.0      5903.0     41020.4       533.5
                                                 Min   I  -145276.3           -9.9
4665.0     -6086.3     27742.9       -304.3
                                                   J  -144701.5           -9.9
6927.2     -5421.7      6775.0       -280.4
                                 ult-env  Max    I  -145251.3          203.6
6260.9      14243.3     58657.7       961.1
                                                   J  -144676.6          171.5
8781.6      12691.5     43022.2       678.0
                                                 Min   I  -145271.6           -21.2
284.8      -12982.9     13362.2       -656.7
                                                   J  -144696.8           -21.2
3282.0     -11568.4     -1496.7       -605.3
     8      1      1  svr_env Max    I   -81774.8          107.1
2929.1      5904.0     31680.3       526.8
                                                   J   -83186.7           89.1
3699.6      5509.7     26117.3       283.4
                                                 Min   I   -81782.0           -9.9
-8.8       -5413.3     -2565.0       -274.3
                                                   J   -83193.8           -9.9
882.6      -5242.9     -9776.3       -295.1
                                 ult-env  Max    I   -81766.3          171.5
1845.6      12693.6     33682.2       663.5
                                                   J   -83178.2          139.4
3059.5      11845.9     35228.2       605.4
                                                 Min   I   -81779.6           -21.2
-3653.9    -11570.2    -10836.7       -592.1
                                                   J   -83191.5           -21.2
-2180.3    -11218.4    -13778.3       -540.9
     9      1      1  svr_env Max    I   -67423.1           89.1
3699.6      5509.7     12324.3       281.0
                                                   J   -68835.5           75.6
3995.3      5471.9      6622.0       260.8
                                                 Min   I   -67429.4           -9.9
882.6      -5243.3    -23569.2       -292.9
                                                   J   -68841.8           -9.9
1252.7     -5251.9    -30549.9       -435.2
                                 ult-env  Max    I   -67416.6          139.4
3059.5      11845.9     21435.2       600.3
                                                   J   -68829.0          115.3
3699.4      11764.6     20297.1       557.2
                                                 Min   I   -67428.3           -21.2
-2180.4    -11218.4    -27571.2       -536.3
                                                   J   -68840.6           -21.2
-1380.2    -11247.8    -32121.9       -497.9
    10      1      1  svr_env Max    I   -76724.9           11.2
1560.3      5252.9     17306.8       143.5
                                                   J   -78207.4           11.2
2496.1      5227.2     14614.6       149.1
                                                 Min   I   -76730.4           -67.0
-1197.5    -5462.5    -22424.2       -416.4
                                                   J   -78212.9           -83.3
-358.0     -5494.3    -23677.5       -247.3
                                 ult-env  Max    I   -76718.0           24.0
4790.3      11244.9     26894.0       306.7
                                                   J   -78200.4           24.0
6249.4      11176.5     16864.2       318.9
                                                 Min   I   -76728.2          -101.5
-322.3     -11744.5    -29309.9       -494.4
                                                   J   -78210.6          -130.6
872.1      -11812.8    -34988.4       -313.6
    11      1      3  svr_env Max    I   -85007.7           11.2
10099.7      7369.6     -6090.3      1225.8
                                                   J   -86118.1           11.2
13503.0      7576.7    -12744.7      1355.5
                                                 Min   I   -85007.7          -148.6
6587.5     -8004.8    -52821.6       -182.2
                                                   J   -86118.1          -154.0
9922.5     -8229.8    -61781.1       -185.6
                                 ult-env  Max    I   -85007.7           24.0
16016.1     15687.2    -28053.2      1875.8
                                                   J   -86118.1           24.0
19743.3     16128.2    -36908.7      2102.6
                                                 Min   I   -85007.7          -247.1
8889.6     -17210.3   -100296.5       -389.3
                                                   J   -86118.1          -256.7
12428.7    -17694.1   -113999.0       -396.5
    12      1      3  svr_env Max    I   -86226.2          206.7
-13207.1      9570.9    -12663.8      2724.4
                                                   J   -86985.1          201.3
-11418.8      9350.0      -961.9      2542.0
                                                 Min   I   -86226.2           -16.8
-16790.2     -8808.7    -61707.0       -597.7
                                                   J   -86985.1           -16.8
-14935.4     -8605.2    -47316.7       -583.8
                                 ult-env  Max    I   -86226.2          338.4
-16476.9      20577.5    -36827.9      3746.3
                                                   J   -86985.1          328.7
-14484.7      20102.4    -22256.0      3446.1
                                                 Min   I   -86226.2           -36.1
-24172.6     -18756.5   -113932.8      -1283.9
                                                   J   -86985.1           -36.1
-21996.2     -18323.4    -93537.9      -1254.0
    13      1      2  svr_env Max    I   -86985.1          201.3
-11418.8      9350.1     -5995.5      2542.0
                                                   J   -86221.2          185.1
-7810.1      8651.1     20326.0      2023.9
                                                 Min   I   -86985.1           -16.8
-14935.4     -8594.7    -52336.8       -583.8
                                                   J   -86221.2           -16.8
-11132.3     -7951.5    -19588.1       -542.1
                                 ult-env  Max    I   -86985.1          328.7
-14484.7      20102.8    -27289.6      3446.1
                                                   J   -86221.2          299.8
-10509.6      18599.9      7041.4      2597.5
                                                 Min   I   -86985.1           -36.1
-21996.2     -18323.8    -98542.5      -1254.0
                                                   J   -86221.2           -36.1
-17526.0     -16953.9    -49812.5      -1164.5
    14      1      2  svr_env Max    I  -146443.8          152.7
4102.2      7326.3     69895.9      1147.7
                                                   J  -145958.9          134.7
6077.6      6633.6     59173.4       732.0
                                                 Min   I  -146452.5           -16.8
1118.3     -6733.5     36063.1       -475.1
                                                   J  -145967.5           -16.8
3236.7     -6095.4     25665.4       -438.0
                                 ult-env  Max    I  -146429.6          242.0
2145.9      15751.5     70399.4      1134.7
                                                   J  -145944.6          209.9
4543.5      14262.2     68960.8      1034.7
                                                 Min   I  -146447.2           -36.1
-3951.8     -14357.6     26416.8      -1020.8
                                                   J  -145962.2           -36.1
-1106.8     -13000.0     23530.5      -541.0
    15      1      1  svr_env Max    I   -82119.3          134.7
635.3       6634.3     49782.7       727.1
                                                   J   -83139.1          119.7
1594.5      6067.5     50755.0       446.8
                                                 Min   I   -82125.9           -16.8
-2205.6     -6084.8     16274.7       -433.5
                                                   J   -83145.8           -16.8
-1141.8     -5562.5     15973.1       -431.1
                                 ult-env  Max    I   -82109.4          209.9
-898.8      14263.8     59570.1      1024.1
                                                   J   -83129.2          183.1
314.6       13045.1     68586.2       959.7
                                                 Min   I   -82122.5           -36.1
-6549.1     -13001.5     14139.8       -931.3
                                                   J   -83142.3           -36.1
-5005.6     -11890.6     18348.7       -872.8
    16      1      1  svr_env Max    I   -67375.2          119.7
1594.5      6067.5     36979.3       444.9
                                                   J   -69074.7          101.1
2579.4      5596.6     35368.4       407.6
                                                 Min   I   -67381.2           -16.8
-1141.8     -5563.0      2197.4       -429.3
                                                   J   -69080.8           -16.8
-47.0       -5368.5     -2135.1       -684.7
                                 ult-env  Max    I   -67366.9          183.1
314.6       13045.1     54810.5       955.5
                                                   J   -69066.5          150.0
1735.7      12032.7     62182.7       875.6
                                                 Min   I   -67378.6           -36.1
-5005.6     -11890.6      4573.0       -869.0
                                                   J   -69078.2           -36.1
-3324.2     -11487.4      4340.8       -796.5
    17      1      1  svr_env Max    I   -77002.1           17.2
2471.2      5360.5     39559.7       267.2
                                                   J   -78468.0           17.2
3509.8      5874.2     34377.5       269.1
                                                 Min   I   -77008.3          -100.2
-274.9      -5797.9      5629.9       -564.4
                                                   J   -78474.2          -116.6
647.2       -6401.5      1837.8       -321.9
                                 ult-env  Max    I   -76992.6           36.8
6449.0      11453.9     55332.4       573.9
                                                   J   -78458.5           36.8
8011.1      12545.3     41064.5       578.0
                                                 Min   I   -77004.9          -148.7
1090.2      -12465.5      6786.7       -567.8
                                                   J   -78470.8          -177.9
2288.7      -13763.3     -2516.0       -535.8
    18      1      3  svr_env Max    I   -85931.2           17.2
12789.7      8385.4     -1333.6      1712.6
                                                   J   -86721.2           17.2
15206.6      8588.9     -10158.8      1874.1
                                                 Min   I   -85931.2          -181.8
9251.2      -9103.8     -47800.9       -333.8
                                                   J   -86721.2          -187.2
11602.1     -9324.8     -59379.0       -344.6
                                 ult-env  Max    I   -85931.2           36.8
19432.2      17841.0     -22647.0      2444.9
                                                   J   -86721.2           36.8
22169.8      18274.0     -34008.1      2714.1
                                                 Min   I   -85931.2          -294.3
11955.3     -19573.1     -94224.7       -715.3
                                                   J   -86721.2          -304.0
14510.4     -20048.2    -111442.2       -738.6
    19      1      3  svr_env Max    I   -86776.1          164.5
-11164.9      8431.7     -10117.7      1874.1
                                                   J   -86904.8          159.1
-9108.0      8206.7       -757.2      1730.1
                                                 Min   I   -86776.1           -12.0
-14728.5     -7755.6     -59337.9       -344.6
                                                   J   -86904.8           -12.0
-12602.4     -7548.5     -47697.7       -335.4
                                 ult-env  Max    I   -86776.1          272.4
-13945.1      18128.2     -33967.0      2714.1
                                                   J   -86904.8          262.8
-11684.2      17644.4     -22156.9      2473.2
                                                 Min   I   -86776.1           -25.7
-21291.5     -16523.9    -111401.1       -738.6
                                                   J   -86904.8           -25.7
-18840.6     -16082.9     -94734.0       -718.9
    20      1      2  svr_env Max    I   -86892.6          159.1
-9108.0      8206.5     -5784.7      1735.1
                                                   J   -81550.7          122.5
-965.4      6625.6     24197.9       886.9
                                                 Min   I   -86895.9           -12.0
-12602.4     -7541.2     -52725.2       -340.0
                                                   J   -81554.0           -12.0
-4026.4     -6086.5     -14333.8       -277.5
                                 ult-env  Max    J   -86887.1          262.8
-11684.2      17644.0     -27184.4      2473.3
                                                   J   -81545.2          197.5
-2709.7      14245.0      17155.7      1069.3
                                                 Min   J   -86893.7           -25.7
-18840.6     -16082.6     -99761.5       -728.7
                                                   J   -81551.8           -25.7
-8745.6     -12984.4     -35052.3       -595.3
    21      1      2  svr_env Max    I   -145984.0          122.5
5598.3      6625.2      47030.4       895.1
                                                   J  -145388.5          104.5
7768.7      5903.5      31684.0       559.8
                                                 Min   I  -145993.6           -12.0
2537.3     -6086.8      8498.7       -285.0
                                                   J  -145398.1           -12.0
4848.6     -5422.2     -6471.1       -254.3
                                 ult-env  Max    I   -145969.9          197.5
3853.9      14244.2     39988.2      1069.4
                                                   J  -145374.4          165.4
6449.0      12692.5     30582.8       575.5
                                                 Min   I  -145988.5           -25.7
-2182.0     -12983.6    -12219.9       -611.6
                                                   J  -145393.0           -25.7
864.7      -11569.2    -19669.3       -546.0
    22      1      1  svr_env Max    I   -82302.9          104.5
1313.1      5903.8     22304.3       554.4
                                                   J   -84224.8           77.5
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2828.2 5481.9 19742.5 241.1
−1607.1 −5413.4 −15850.8 −249.3
74.4 −5246.1 −20729.8 −291.5

ult-env Max I −82294.8 165.4
−6.6 12693.1 21203.0 563.7
2071.1 11786.1 30901.9 516.9
−5590.9 −11569.9 −29049.1 −535.3
−3040.9 −11231.9 −26594.0 −486.5

23 1 1 svr_env Max I −68464.4 77.5
2828.1 5481.9 5926.0 237.9
3304.8 5405.7 −4908.5 219.6
74.4 −5246.5 −34546.3 −288.5
681.4 −5296.0 −46357.1 −552.6

ult-env Max I −68459.8 117.2
2071.1 11786.2 17085.4 509.9
3508.8 11622.4 15976.0 470.3
−3040.9 −11231.9 −40410.5 −480.1
−1322.9 −11367.1 −46166.7 −620.2

24 1 1 svr_env Max I −78185.4 11.7
429.5 5238.9 23822.7 211.4
1169.4 5218.4 24678.9 375.2
−2402.0 −5480.1 −11525.3 −211.1
−1759.5 −5553.2 −8972.9 −189.0

ult-env Max I −78177.6 25.3
3620.7 11207.1 31297.5 450.6
4830.7 11151.3 25945.2 462.5
−1658.2 −11782.1 −16814.3 −398.2
−657.9 −11939.3 −17802.1 −408.8

25 1 3 svr_env Max I −86842.1 11.7
10131.9 7369.6 18441.8 1505.2
10624.3 7409.7 17362.1 1531.4
6563.9 −8004.5 −25393.5 −230.1
7043.3 −8048.1 −26945.6 −231.3

ult-env Max I −86842.1 25.3
15719.2 15686.7 1561.4 2241.5
16274.4 15772.2 112.3 2286.0
8632.6 −17209.7 −59837.6 −497.4
9151.6 −17303.5 −62214.7 −500.1

26 1 3 svr_env Max I −86886.0 172.1
−11523.9 7844.4 11355.7 1642.0
−9542.9 7616.6 20394.4 1490.1
−14796.3 −7216.5 −35058.7 −236.6
−12748.1 −7006.8 −23817.1 −231.8

ult-env Max I −86886.0 295.8
−14492.1 16865.5 −7493.0 2473.7
−12307.0 16375.7 4134.4 2211.8
−21290.1 −15373.0 −73982.1 −511.4
−18919.6 −14926.5 −57818.1 −501.1

27 1 2 svr_env Max I −86221.7 166.7
−9542.9 7616.8 15406.2 1490.1
−7013.2 7179.0 27759.8 1232.0
−12748.1 −6997.7 −28638.2 −231.8
−10101.3 −6595.0 −12850.8 −223.4

ult-env Max I −86221.7 286.2
−12307.0 16376.1 −853.8 2211.8
−9560.3 15434.8 15803.2 1767.5
−18919.6 −14926.9 −62447.0 −501.1
−15875.8 −14068.9 −39381.9 −482.9

28 1 2 svr_env Max I −145808.9 136.1
4736.1 6270.3 74050.1 732.8
6970.1 5767.9 60516.5 353.6
1857.9 −5760.0 37793.2 −215.9
4249.2 −5295.2 24897.5 −200.1

ult-env Max I −145794.1 231.6
2674.4 13481.2 70740.4 891.4
5328.9 12400.9 64232.9 472.3
−3052.2 −12288.3 22944.5 −466.5
74.5 −11303.5 17928.2 −432.4

29 1 1 svr_env Max I −82106.4 118.1
1439.9 5768.3 41689.3 349.6
2793.8 5402.5 38618.1 194.5
−1281.0 −5285.2 6070.3 −196.6
245.3 −5162.8 1491.3 −442.5

ult-env Max I −82096.3 199.5
−201.3 12401.8 45405.8 463.5
1560.4 11615.4 55382.4 413.9
−5455.7 −11304.3 −898.9 −424.8
−3151.2 −11060.6 2442.0 −467.6

30 1 1 svr_env Max I −68070.3 94.1
2793.7 5402.5 24813.6 191.0
3635.4 5302.9 9856.2 150.8
245.3 −5163.4 −12313.3 −439.2
1228.0 −5227.6 −26998.9 −864.9

ult-env Max I −68064.3 156.7
1560.4 11615.4 41577.9 406.3
3341.5 11401.3 41826.0 320.8
−3151.3 −11060.6 −11362.5 −467.6
−873.2 −11232.0 −17981.2 −1293.8

31 1 3 svr_env Max I −62841.2 6.5
7289.7 6802.1 13482.5 7.0
9986.2 7081.3 3162.1 0.0
4454.8 −7395.8 10224.0 −127.2
7047.6 −7699.1 3162.1 −0.0

ult-env Max I −62841.2 13.8
11398.0 14493.8 18479.8 14.9
14541.6 15088.2 3162.1 0.0
5885.3 −15901.0 12111.6 −215.4
8750.4 −16553.1 3162.1 −0.0

32 1 1 svr_env Max I −69409.8 41.7
3304.8 5405.8 −4908.5 216.9
2973.0 5390.6 −6398.5 214.5
681.4 −5296.2 −46357.1 −550.5
363.6 −5308.5 −47883.4 −580.2

ult-env Max I −69407.3 53.3
3508.8 11622.4 15976.0 464.5
3395.1 11589.7 15494.9 459.3
−1322.9 −11367.1 −46166.7 −620.2
−1406.4 −11399.8 −47066.6 −680.4

33 1 1 svr_env Max I −67301.1 22.3
2140.1 5368.1 −7483.3 208.3
1034.8 5353.4 −6841.7 206.1
−458.2 −5327.2 −48758.1 −603.6
−1562.5 −5339.9 −47796.0 −608.5

ult-env Max I −67301.1 25.3
2891.1 11541.4 15245.7 445.8
2011.7 11508.8 16006.5 441.0
−1886.5 −11448.2 −47309.3 −736.3
−2763.7 −11480.8 −46120.3 −751.6

34 1 1 svr_env Max I −66204.8 14.5
1034.8 5353.4 −6787.8 206.1
150.4 5330.7 −3625.8 202.5
−1562.5 −5339.9 −47742.1 −608.5
−2458.8 −5368.0 −43732.8 −593.6

ult-env Max I −66204.8 25.3
2011.7 11508.8 16060.3 441.0
1552.2 11448.5 18499.7 433.1
−2763.7 −11480.8 −46066.4 −751.6
−3248.9 −11541.1 −42091.8 −732.3

35 1 1 svr_env Max I −68607.0 33.9
2973.0 5390.6 −6398.5 211.8
2140.1 5368.1 −7483.3 208.3
363.6 −5309.0 −47883.4 −578.0
−458.2 −5327.2 −48758.1 −603.6

ult-env Max I −68607.0 39.3
3395.1 11589.8 15494.9 453.4
2891.1 11541.4 15245.7 445.8
−1406.4 −11399.8 −47066.6 −680.4
−1886.5 −11448.2 −47309.3 −736.3

36 1 2 svr_env Max I −84642.9 157.1
−7013.2 7179.0 27759.8 1232.0
−5204.2 6831.9 35591.1 1033.7
−10101.3 −6595.0 −12850.8 −223.4
−8209.2 −6275.7 −2954.3 −216.6

ult-env Max I −84642.9 269.1
−9560.3 15434.8 15803.2 1767.5
−7572.2 14688.5 26986.5 1426.8
−15875.8 −14068.9 −39381.9 −482.9
−13662.0 −13388.7 −24843.5 −468.2

37 1 2 svr_env Max I −83398.2 149.3
−5230.0 6831.7 35592.0 1038.3
−2830.6 6270.5 45146.3 725.7
−8235.0 −6276.5 −2953.4 −220.9
−5708.8 −5760.1 8889.5 −209.3

ult-env Max I −83392.3 255.2
−7598.0 14688.2 26987.4 1426.8
−4892.3 13481.7 41836.6 891.4
−13687.8 −13388.4 −24842.6 −477.4
−10618.9 −12288.6 −5959.3 −452.4

38 1 3 svr_env Max I −87013.3 11.7
10624.3 7409.7 17362.1 1531.4
12680.1 7576.7 11317.9 1642.0
7043.3 −8048.1 −26858.6 −231.3
9044.4 −8229.5 −34921.1 −236.6

ult-env Max I −87013.3 25.3
16274.4 15772.2 112.3 2286.0
18590.5 16127.7 −7530.7 2473.7
9151.6 −17303.5 −62027.6 −500.1
11317.1 −17693.5 −73643.1 −511.4

39 1 1 svr_env Max I −67215.5 33.4
3075.1 5263.7 4553.0 127.9
2619.7 5249.6 3116.4 120.4
684.6 −5266.3 −30810.6 −962.3
235.3 −5283.2 −31388.8 −985.4

ult-env Max I −67214.1 48.3
3332.4 11310.8 40193.4 272.1
3102.3 11274.3 39604.4 256.0
−846.3 −11322.5 −19578.2 −1505.3
−1063.0 −11359.0 −19543.9 −1559.0

40 1 1 svr_env Max I −66378.2 25.6
2682.3 5248.7 3119.6 119.9
70.2 5206.8 1591.8 97.3
297.9 −5283.2 −31385.6 −985.0
−2298.3 −5333.8 −29454.7 −993.6

ult-env Max I −66378.2 34.4
3165.0 11274.3 39607.6 255.1
1235.4 11165.5 38425.0 207.0
−1000.4 −11358.9 −19540.7 −1559.0
−2895.9 −11467.7 −16739.6 −1611.8

41 1 1 svr_env Max I −69114.3 52.7
3635.3 5303.0 9856.2 147.9
3075.1 5264.1 4553.0 129.1
1228.0 −5228.2 −26998.9 −862.3
684.6 −5266.3 −30810.6 −963.3

ult-env Max I −69111.7 82.8
3341.5 11401.3 41826.0 314.5
3332.4 11310.8 40193.4 274.5
−873.3 −11232.0 −17981.2 −1293.9
−846.3 −11322.5 −19578.2 −1505.2

42 1 1 svr_env Max I −66499.2 21.6
2278.5 5361.7 −7843.8 173.9
481.3 5339.3 −5979.0 156.4
−315.2 −5332.3 −48396.0 −694.9
−2114.2 −5357.4 −47016.7 −687.6

ult-env Max I −66499.2 24.0
3459.3 11527.6 14942.3 371.9
2055.0 11471.1 16412.9 334.2
−1300.4 −11461.9 −46541.7 −958.7

−2708.3 −11518.5 −45690.3 −974.2
−64610.9 −21.2

43 1 1 svr_env Max I −66487.1 84.8
2077.0 6638.6 77.3 46.2
2802.9 5949.0 −1614.2 73.0
−514.4 −6089.7 −10675.0 −423.5
316.9 −5454.2 −18707.6 −654.3

ult-env Max I −66479.9 136.2
973.5 14273.0 15757.1 98.7
2018.6 12790.3 22365.4 156.0
−3927.9 −13009.9 −4919.9 −680.9
−2505.0 −11658.5 −9959.0 −1049.6

44 1 1 svr_env Max I −68321.5 66.3
2802.9 5949.0 −1614.2 70.4
3070.3 5436.2 −6363.8 97.2
316.9 −5454.4 −18707.6 −651.9
651.1 −5151.4 −28674.1 −825.8

ult-env Max I −68316.6 103.2
2018.6 12790.4 22365.4 150.3
2630.4 11687.9 23538.2 207.7
−2505.0 −11658.5 −9959.0 −1049.6
−1604.7 −11021.8 −17836.1 −1316.8

45 1 1 svr_env Max I −70301.0 47.8
3070.3 5436.2 −6363.8 94.6
2443.9 5396.9 −7574.7 121.5
651.1 −5151.8 −28674.1 −823.4
71.0 −5184.2 −34466.0 −940.5

ult-env Max I −70298.2 70.3
2630.4 11687.9 23538.2 202.0
2511.1 11603.4 26433.6 259.3
−1604.7 −11021.8 −17836.1 −1316.8
−1624.5 −11106.4 −22442.4 −1482.4

46 1 1 svr_env Max I −69037.0 29.4
2443.9 5397.0 −7574.7 117.9
904.8 5357.6 −4773.3 144.8
71.0 −5185.4 −34466.0 −937.2
−1464.0 −5217.8 −35354.9 −997.4

ult-env Max I −69037.0 37.3
2511.1 11603.4 26433.6 251.7
1520.7 11518.9 31232.1 309.0
−1624.5 −11106.4 −22442.4 −1482.4
−2606.1 −11190.9 −23049.7 −1546.5

47 1 1 svr_env Max I −66852.0 10.9
904.8 5357.6 −4773.3 144.8
−345.6 5318.3 2369.4 171.6
−1464.0 −5217.8 −35354.9 −997.4
−2726.6 −5250.2 −31028.8 −1000.6

ult-env Max I −66852.0 17.8
1520.7 11518.9 31232.1 309.0
829.5 11434.4 38282.4 366.4
−2606.1 −11190.9 −23049.7 −1546.5
−3323.7 −11275.4 −19346.0 −1508.9

48 1 1 svr_env Max I −64658.6 8.3
−345.6 5318.3 2369.4 171.3
−832.0 5279.1 11233.0 198.2
−2726.6 −5251.2 −31028.8 −1000.3
−3227.5 −5283.7 −24128.8 −946.6

ult-env Max I −64657.0 17.8
829.5 11434.4 38282.4 365.7
895.0 11349.9 44988.2 423.0
−3323.7 −11275.4 −19346.0 −1508.9
−3289.2 −11359.9 −13972.3 −1369.9

49 1 1 svr_env Max I −62630.1 8.3
−832.0 5279.0 11233.0 199.3
−729.7 5246.2 19619.9 226.1
−3227.5 −5284.1 −24128.8 −947.6
−3141.9 −5323.0 −16877.4 −837.0

ult-env Max I −62626.6 17.8
895.0 11349.9 44988.2 425.4
1540.7 11265.4 49180.1 482.7

				Min	I	−62633.7
−3289.2	−11359.9	−13972.3	−1369.9			−61.6
						−60830.5
−2679.4	−11444.4	−9151.2	−1129.2			−94.6
50	1	1	svr_env	Max	I	−60822.2
−729.7	5245.9	19619.9	227.9			8.3
						−60103.3
−98.6	5213.5	25284.7	254.7			8.3
				Min	I	−60827.4
−3141.9	−5323.0	−16877.4	−838.6			−62.2
						−60108.5
−2557.0	−5362.3	−11548.9	−671.1			−80.7
		ult_env	Max	I		−60816.6
1540.7	11265.4	49180.1	486.4			17.8
						−60097.6
2736.7	11180.9	48646.0	543.8			17.8
				Min	I	−60825.6
−2679.4	−11444.4	−9151.2	−1129.2			−94.6
						−60106.7
−1619.0	−11528.9	−7157.0	−787.0			−127.6
51	1	1	svr_env	Max	I	−60158.2
−104.5	5213.4	25236.0	256.7			8.3
						−61456.1
863.2	5181.0	26976.1	283.5			8.3
				Min	I	−60164.2
−2562.9	−5362.3	−11597.6	−672.9			−80.7
						−61462.0
−1676.2	−5401.6	−9427.5	−448.4			−99.2
		ult_env	Max	I		−60150.6
2730.7	11180.8	48597.3	547.9			17.8
						−61448.5
4289.2	11096.3	42172.5	605.3			17.8
				Min	I	−60161.4
−1624.9	−11528.9	−7205.7	−787.0			−127.6
						−61459.3
−413.2	−11613.4	−9273.8	−538.2			−160.6
52	1	1	svr_env	Max	I	−68839.2
3995.3	5471.9	6622.0	258.6			75.6
						−70344.2
4016.8	5441.9	37.0	238.4			62.1
				Min	I	−68844.5
1252.7	−5252.0	−30549.9	−433.2			−9.9
						−70349.5
1334.2	−5269.2	−38096.4	−545.1			−9.9
		ult_env	Max	I		−68834.4
3699.4	11764.6	20297.1	552.6			115.3
						−70339.4
4075.3	11700.2	17333.3	509.6			91.2
				Min	I	−68844.2
−1380.2	−11247.8	−32121.9	−493.7			−21.2
						−70349.1
−875.3	−11295.7	−37863.9	−586.8			−21.2
53	1	1	svr_env	Max	I	−70347.5
4016.8	5442.0	37.0	236.4			62.1
						−69409.5
3617.5	5414.2	−4221.6	216.3			48.6
				Min	I	−70351.7
1334.2	−5269.4	−38096.4	−543.2			−9.9
						−69413.7
980.0	−5289.0	−43265.8	−624.8			−9.9
		ult_env	Max	I		−70344.4
4075.3	11700.2	17333.3	505.2			91.2
						−69406.4
4040.3	11640.5	16058.4	462.3			67.1
				Min	I	−70352.0
−875.3	−11295.7	−37863.9	−586.9			−21.2
						−69414.0
−813.4	−11348.8	−41973.1	−765.0			−21.2
54	1	1	svr_env	Max	I	−69412.3
3617.5	5414.2	−4221.6	214.4			48.6
						−67973.5
2990.4	5387.9	−6789.0	195.1			35.1
				Min	I	−69415.1
980.0	−5289.2	−43265.8	−623.1			−9.9
						−67976.3
382.6	−5310.5	−46703.4	−675.0			−9.9
		ult_env	Max	I		−69410.6
4040.3	11640.6	16058.4	458.3			67.1
						−67971.8
3787.4	11584.1	15316.7	417.1			43.0
				Min	I	−69415.7
−813.4	−11348.8	−41973.1	−765.0			−21.2
						−67976.9
−1002.6	−11405.4	−44873.3	−888.9			−21.2
55	1	1	svr_env	Max	I	−67976.2
2990.4	5388.0	−6789.0	192.9			35.1
						−66499.2
2278.5	5361.7	−7843.8	173.9			21.6
				Min	I	−67976.2
382.6	−5311.1	−46703.4	−673.0			−9.9
						−66499.2
−315.2	−5332.3	−48396.0	−694.9			−9.9
		ult_env	Max	I		−67976.2
3787.4	11584.1	15316.7	412.5			43.0
						−66499.2
3459.3	11527.6	14942.3	371.9			24.0
				Min	I	−67976.2
−1002.6	−11405.4	−44873.3	−889.0			−21.2
						−66499.2
−1300.4	−11461.9	−46541.7	−958.7			−21.2
56	1	1	svr_env	Max	I	−64607.5
481.3	5338.7	−5979.0	157.8			11.2
						−63081.6
−1.9	5317.4	−2029.6	141.5			11.2
				Min	I	−64610.3
−2114.2	−5357.4	−47016.7	−689.0			−13.0
						−63084.4
−2614.7	−5383.7	−43121.6	−652.4			−26.5
		ult_env	Max	I		−64605.6
2055.0	11471.1	16412.9	337.4			24.0

						−63079.7
1973.8	11414.6	18893.3	302.3			24.0
				Min	I	−64610.7
−2708.3	−11518.5	−45690.3	−974.2			−21.2
						−63084.8
−2827.0	−11575.0	−42805.5	−935.6			−29.2
57	1	1	svr_env	Max	I	−63078.8
−1.9	5317.2	−2029.6	142.8			11.2
						−61855.7
251.8	5295.9	1435.2	132.7			11.2
				Min	I	−63082.8
−2614.7	−5383.7	−43121.6	−653.6			−26.5
						−61859.6
−2394.1	−5410.0	−39352.3	−597.0			−40.0
		ult_env	Max	I		−63075.5
1973.8	11414.5	18893.3	305.1			24.0
						−61852.4
2637.8	11358.0	19781.6	283.4			24.0
				Min	I	−63082.7
−2827.0	−11575.0	−42805.5	−935.6			−29.2
						−61859.6
−2234.1	−11631.5	−40774.7	−842.7			−53.3
58	1	1	svr_env	Max	I	−61852.9
251.7	5295.8	1435.2	134.9			11.2
						−60748.6
845.4	5274.5	3675.9	138.3			11.2
				Min	I	−61857.6
−2394.1	−5410.0	−39352.3	−598.4			−40.0
						−60753.3
−1848.9	−5436.3	−36792.7	−522.3			−53.5
		ult_env	Max	I		−61848.4
2637.7	11358.0	19781.6	288.1			24.0
						−60744.1
3649.7	11301.4	18172.9	295.6			24.0
				Min	I	−61856.9
−2234.1	−11631.4	−40774.7	−842.7			−53.3
						−60752.6
−1326.3	−11688.0	−40657.3	−695.6			−77.4
59	1	1	svr_env	Max	I	−60746.0
845.4	5274.5	3675.9	138.7			11.2
						−60959.9
1560.3	5253.2	3447.4	143.2			11.2
				Min	I	−60751.1
−1849.0	−5436.3	−36792.7	−522.6			−53.5
						−60965.0
−1197.5	−5462.5	−36283.6	−416.2			−67.0
		ult_env	Max	I		−60740.2
3649.7	11301.4	18172.9	296.5			24.0
						−60954.2
4790.3	11244.9	13034.5	306.2			24.0
				Min	I	−60749.7
−1326.3	−11688.0	−40657.3	−695.6			−77.4
						−60963.6
−322.3	−11744.5	−43169.3	−494.4			−101.5
60	1	1	svr_env	Max	I	−69079.1
2579.4	5596.6	35368.4	405.3			101.1
						−70533.4
3273.8	5562.7	30362.8	368.0			82.5
				Min	I	−69084.4
−47.0	−5368.6	−2135.1	−682.5			−16.8
						−70538.7
734.0	−5387.6	−9117.2	−880.2			−16.8
		ult_env	Max	I		−69072.8
1735.7	12032.7	62182.7	870.6			150.0
						−70527.1
2906.4	11959.8	64204.5	790.7			116.8
				Min	I	−69083.0
−3324.2	−11487.4	4340.8	−791.9			−36.1
						−70537.3
−1967.2	−11543.2	543.3	−964.3			−36.1
61	1	1	svr_env	Max	I	−70537.7
3273.8	5562.7	30362.8	365.6			82.5
						−68846.6
3321.2	5532.6	26545.6	345.6			63.9
				Min	I	−70542.1
734.0	−5387.8	−9117.2	−878.0			−16.8
						−68851.0
843.8	−5411.0	−14258.5	−1034.4			−16.8
		ult_env	Max	I		−70533.4
2906.4	11959.8	64204.5	785.6			116.8
						−68842.3
3446.2	11895.2	65381.3	742.7			83.6
				Min	I	−70541.8
−1967.2	−11543.3	543.3	−964.3			−36.1
						−68850.7
−1293.4	−11608.0	−2343.1	−1274.8			−36.1
62	1	1	svr_env	Max	I	−68850.6
3321.2	5532.7	26545.6	343.3			63.9
						−67023.4
2829.4	5502.6	23512.5	328.1			45.3
				Min	I	−68853.7
843.8	−5411.3	−14258.5	−1032.2			−16.8
						−67026.6
389.4	−5434.5	−18240.3	−1134.4			−16.8
		ult_env	Max	I		−68848.1
3446.2	11895.2	65381.3	737.7			83.6
						−67021.0
3462.6	11830.5	65147.9	705.3			50.4
				Min	I	−68854.1
−1293.4	−11608.0	−2343.1	−1274.8			−36.1
						−67027.0
−1196.7	−11672.8	−5036.0	−1482.5			−36.1
63	1	1	svr_env	Max	I	−67027.4
2829.4	5502.6	23512.5	325.2			45.3
						−64907.1
1390.4	5473.1	23418.2	310.0			26.7
				Min	I	−67027.4
389.4	−5435.6	−18240.3	−1131.7			−16.8
						−64907.1
−1037.8	−5459.3	−18497.2	−1176.2			−16.8

		ult_env	Max	I		−67027.4
3462.6	11830.6	65147.9	698.9			50.4
						−64907.1
2547.0	11765.8	65850.6	666.5			36.8
				Min	I	−67027.4
−1196.7	−11672.8	−5036.0	−1482.5			−36.1
						−64907.1
−2086.7	−11737.5	−4919.7	−1587.3			−36.1
64	1	1	svr_env	Max	I	−64858.5
1390.4	5473.1	23483.6	310.0			26.7
						−62922.8
759.0	5449.9	26396.8	295.0			17.2
				Min	I	−64858.5
−1037.8	−5459.3	−18431.8	−1176.2			−16.8
						−62922.8
−1682.9	−5489.4	−15158.6	−1163.2			−25.8
		ult_env	Max	I		−64858.5
2547.0	11765.8	65916.0	666.5			36.8
						−62922.8
2453.9	11701.1	67619.9	634.1			36.8
				Min	I	−64858.5
−2086.7	−11737.5	−4854.3	−1587.3			−36.1
						−62922.8
−2209.4	−11802.2	−2190.2	−1589.2			−36.1
65	1	1	svr_env	Max	I	−62919.3
759.0	5449.0	26396.8	296.8			17.2
						−61095.5
694.4	5425.8	29628.1	282.6			17.2
				Min	I	−62921.8
−1682.9	−5489.4	−15158.6	−1164.9			−25.8
						−61098.0
−1786.8	−5519.5	−10823.1	−1095.1			−44.4
		ult_env	Max	I		−62917.3
2453.9	11701.1	67619.9	638.0			36.8
						−61093.5
2941.5	11636.4	67638.8	607.5			36.8
				Min	I	−62922.0
−2209.4	−11802.2	−2190.2	−1589.2			−36.1
						−61098.3
−1806.2	−11866.9	609.9	−1488.2			−49.2
66	1	1	svr_env	Max	I	−61091.7
694.4	5425.4	29628.1	284.7			17.2
						−59424.5
1045.0	5402.2	31799.7	271.3			17.2
				Min	I	−61095.5
−1786.8	−5519.5	−10823.1	−1097.0			−44.4
						−59428.3
−1500.5	−5549.5	−7142.0	−970.1			−63.0
		ult_env	Max	I		−61087.8
2941.5	11636.4	67638.8	612.0			36.8
						−59420.7
3857.5	11571.6	64417.1	582.9			36.8
				Min	I	−61095.1
−1806.2	−11866.8	609.9	−1488.2			−49.2
						−59427.9
−1028.5	−11931.5	1793.2	−1284.3			−82.4
67	1	1	svr_env	Max	I	−59420.1
1045.0	5401.9	31799.7	273.6			17.2
						−59908.3
1622.3	5378.8	30143.2	263.1			17.2
				Min	I	−59425.0
−1500.5	−5549.5	−7142.0	−972.3			−63.0
						−59913.2
−1011.9	−5579.6	−6666.0	−790.5			−81.6
		ult_env	Max	I		−59414.2
3857.5	11571.6	64417.1	587.9			36.8
						−59902.4
5012.1	11506.8	55317.1	565.2			36.8
				Min	I	−59423.5
−1028.6	−11931.5	1793.2	−1284.3			−82.4
						−59911.7
−64.5	−11996.2	−1162.1	−977.5			−115.5
68	1	1	svr_env	Max	I	−59903.9
1622.3	5378.6	30143.2	265.1			17.2
						−61237.9
2471.2	5361.0	25702.4	265.5			17.2
				Min	I	−59909.5
−1011.9	−5579.6	−6666.0	−792.4			−81.6
						−61243.6
−274.9	−5798.0	−8227.4	−562.9			−100.2
		ult_env	Max	I		−59895.9
5012.1	11506.8	55317.1	569.5			36.8
						−61230.0
6449.0	11454.0	41475.2	570.3			36.8
				Min	I	−59906.9
−64.6	−11996.2	−1162.1	−977.5			−115.5
						−61241.0
1090.2	−12465.6	−7070.5	−567.9			−148.7
69	1	1	svr_env	Max	I	−78558.2
1958.8	5155.1	39979.8	343.1			8.3
						−80029.6
3323.8	5302.2	36681.2	634.2			8.3
				Min	I	−78564.5
−679.4	−5432.5	4427.9	−270.4			−113.7
						−80035.9
567.0	−5783.7	1940.0	−288.9			−128.2
		ult_env	Max	I		−78548.4
5855.1	11029.9	47408.9	655.9			17.8
						−80019.8
7694.9	11334.6	37033.5	701.0			17.8
				Min	I	−78560.6
831.7	−11679.8	−144.5	−583.3			−186.5
						−80032.0
2322.0	−12435.0	−8130.0	−623.4			−212.4
70	1	1	svr_env	Max	I	−80029.1
3323.8	5302.1	36681.2	634.8			8.3
						−81660.0
5069.8	5699.6	31163.6	961.0			8.3
				Min	I	−80035.2
567.0	−5783.7	1940.0	−289.4			−128.2
						−81666.1

2181.8	−6213.8	−4728.9	−308.0			−142.7
		ult_env	Max	I		−80019.2
7694.9	11334.6	37033.5	702.1			17.8
						−81650.1
9919.1	12177.5	26309.1	1104.6			17.8
				Min	I	−80031.1
2322.0	−12435.0	−8130.0	−624.4			−212.4
						−81662.0
4178.5	−13359.7	−21322.0	−664.4			−238.3
71	1	1	svr_env	Max	I	−81662.0
5069.8	5699.4	31163.6	960.5			8.3
						−83556.7
7466.9	6289.9	22283.8	1321.9			8.3
				Min	I	−81667.2
2181.8	−6213.9	−4728.9	−307.4			−142.7
						−83561.9
4436.7	−6855.7	−16539.5	−325.9			−157.3
		ult_env	Max	I		−81652.9
9919.1	12177.5	26309.1	1104.6			17.8
						−83547.6
12797.0	13435.4	11896.9	1712.6			17.8
				Min	I	−81663.4
4178.5	−13359.8	−21322.0	−663.2			−238.3
						−83558.1
6672.8	−14739.8	−40650.7	−703.2			−264.2
72	1	1	svr_env	Max	I	−83563.2
7466.9	6289.3	22283.8	1319.7			8.3
						−85889.6
11150.4	6907.0	8493.1	1716.2			8.3
				Min	I	−83566.5
4436.7	−6855.8	−16539.5	−323.8			−157.3
						−85893.0
7948.3	−7527.5	−35296.0	−342.3			−171.8
		ult_env	Max	I		−83557.1
12797.1	13435.5	11896.9	1712.6			17.8
						−85883.6
16962.9	14751.8	−7699.5	2383.2			17.8
				Min	I	−83564.0
6672.8	−14740.0	−40650.7	−698.6			−264.2
						−85890.4
10416.7	−16184.1	−68699.3	−738.6			−290.1
73	1	1	svr_env	Max	I	−78204.6
2496.1	5227.2	14614.6	149.2			11.2
						−79675.7
3612.7	5399.3	9734.5	276.9			11.2
				Min	I	−78210.4
−358.0	−5494.3	−23677.5	−247.3			−83.3
						−79681.6
642.3	−5885.2	−27426.9	−156.0			−99.6
		ult_env	Max	I		−78196.4
6249.4	11176.5	16864.2	319.1			24.0
						−79667.6
7898.0	11533.4	5095.4	334.2			24.0
				Min	I	−78207.6
872.1	−11812.8	−34988.4	−313.8			−130.6
						−79678.8
2150.5	−12653.1	−44142.3	−334.4			−159.7
74	1	1	svr_env	Max	I	−79673.6
3612.7	5399.3	9734.5	276.8			11.2
						−81224.5
4944.8	6017.7	3125.9	550.6			11.2
				Min	I	−79679.6
642.3	−5885.2	−27426.9	−155.9			−99.6
						−81230.6
1822.5	−6556.9	−35084.3	−166.3			−115.9
		ult_env	Max	I		−79664.4
7898.0	11533.4	5095.4	334.0			24.0
						−81215.4
9768.9	12849.7	−6802.0	690.2			24.0
				Min	I	−79676.3
2150.5	−12653.1	−44142.3	−334.3			−159.7
						−81227.3
3601.5	−14097.3	−59272.4	−356.0			−188.8
75	1	1	svr_env	Max	I	−81223.6
4944.8	6017.6	3125.9	550.2			11.2
						−82966.6
6713.4	6667.4	−5988.7	868.4			11.2
				Min	I	−81229.6
1822.5	−6556.9	−35084.3	−165.9			−115.9
						−82972.6
3401.7	−7263.0	−47301.7	−176.3			−132.2
		ult_env	Max	I		−81214.2
9768.9	12849.7	−6802.0	690.2			24.0
						−82957.2
12081.9	14233.7	−21719.9	1243.5			24.0
				Min	I	−81226.0
3601.5	−14097.3	−59272.4	−355.2			−188.8
						−82969.0
5443.2	−15615.5	−82015.0	−377.0			−218.0
76	1	1	svr_env	Max	I	−82969.7
6713.4	6667.1	−5988.7	867.1			11.2
						−84990.5
10099.7	7348.3	−19479.4	1229.7			11.2
				Min	I	−82974.5
3401.7	−7263.0	−47301.7	−175.2			−132.2
						−84995.3
6587.5	−8003.7	−66204.0	−185.6			−148.6
		ult_env	Max	I		−82961.7
12081.9	14233.6	−21719.9	1243.5			24.0
						−84982.5
16016.1	15685.1	−41442.3	1875.9			24.0
				Min	I	−82971.4
5443.2	−15615.5	−82015.0	−374.8			−218.0
						−84992.2
8889.6	−17207.9	−113670.9	−396.6			−247.1
77	1	2	svr_env	Max	I	−86221.2
−7810.1	8651.1	20326.0	2023.9			185.1
						−83991.8
−4904.3	7976.8	38120.8	1551.3			168.9
				Min	I	−86221.2
						−16.8

```
-11132.3    -7951.5   -19588.1     -542.1
                                         I   -83991.8      -16.8
-8040.7    -7330.9     2109.2     -500.4
                                         J
                     ult-env  Max      I   -86221.2      299.8
-10509.6    18599.9     7041.4    2597.5
                                         I   -83991.8      270.9
-7235.9    17150.2    32105.2    1827.0
                                         J   -86221.2       -36.1
                           Min      I
-17526.0   -16953.9   -49812.5   -1164.5
                                         J   -83991.8       -36.1
-13770.5   -15632.5   -15913.0   -1074.9
   78        1        2  svr_env  Max      I   -83977.6      168.9
-4904.3     7976.4    38120.8    1558.8
                                         I   -81938.8      152.7
-2604.8     7326.9    50036.3    1138.4
                                         J   -83981.2       -16.8
                           Min      I
-8040.7    -7331.7     2109.2    -506.1
                                         J   -81942.5       -16.8
-5588.7    -6733.6    16203.5    -467.5
                     ult-env  Max      I   -83971.0      270.9
-7235.9    17149.3    32105.2    1827.1
                                         I   -81932.2      242.0
-4561.1    15752.9    50539.7    1134.6
                                         J   -83978.6       -36.1
                           Min      I
-13770.5   -15631.7   -15913.0   -1087.2
                                         J   -81939.9       -36.1
-10658.9   -14358.8     6557.1    -1004.3
   79        1        1  svr_env  Max      I   -78465.5       17.2
3509.8      5874.2    34377.5     270.4
                                         I   -80015.3       17.2
4835.2      6456.6    27437.9     501.5
                                         J   -78471.9      -116.6
                           Min      I
647.2      -6401.5     1837.8    -322.9
                                         J   -80021.8      -132.9
1840.6     -7033.8     -5583.0    -266.1
                     ult-env  Max      I   -78454.9       36.8
8011.1     12545.3    41064.5     580.8
                                         I   -80004.7       36.8
9866.0     13784.3    26273.8     601.2
                                         J   -78467.9      -177.9
                           Min      I
2288.7     -13763.2    -2516.0    -538.1
                                         J   -80017.8      -207.0
3755.7     -15122.6   -16886.2    -570.3
   80        1        1  svr_env  Max      I   -80014.2       17.2
4835.2      6456.6    27437.9     502.2
                                         I   -81744.3       17.2
6544.7      7065.1    17957.8     857.9
                                         J   -80020.6      -132.9
                           Min      I
1840.6     -7033.8     -5583.0    -266.7
                                         J   -81750.6      -149.2
3388.2     -7694.7    -17437.0    -285.4
                     ult-env  Max      I   -80003.2       36.8
9866.0     13784.3    26273.8     602.6
                                         I   -81733.2       36.8
12109.7    15079.5    10589.9    1002.3
                                         J   -80016.3      -207.0
                           Min      I
3755.7     -15122.6   -16886.2    -571.6
                                         J   -81746.3      -236.1
5570.5     -16543.5   -36896.8    -611.8
   81        1        1  svr_env  Max      I   -81745.8       17.2
6544.7      7064.9    17957.8     857.1
                                         I   -83742.3       17.2
8938.6      7699.5     4654.0    1260.2
                                         J   -81751.5      -149.2
                           Min      I
3388.2     -7694.6    -17437.0    -284.7
                                         J   -83748.0      -165.5
5594.8     -8384.2    -34915.5    -306.4
                     ult-env  Max      I   -81735.6       36.8
12109.7    15079.5    10589.9    1002.2
                                         I   -83732.1       36.8
15041.3    16430.8     -9458.9    1684.0
                                         J   -81747.4      -236.1
                           Min      I
5570.5     -16543.5   -36896.8    -610.1
                                         J   -83743.9      -265.2
8038.7     -18026.0   -65921.9    -656.6
   82        1        1  svr_env  Max      I   -83749.4       17.2
8938.6      7698.9     4654.0    1258.7
                                         I   -85916.4       17.2
12789.7     8359.7    -14879.6    1711.4
                                         J   -83753.1      -165.5
                           Min      I
5594.8     -8384.2    -34915.5    -305.1
                                         J   -85920.1      -181.8
9251.1     -9102.4    -61346.8    -332.1
                     ult-env  Max      I   -83742.5       36.8
15041.3    16430.8     -9458.9    1684.0
                                         I   -85909.5       36.8
19432.2    17838.3    -36193.0    2444.9
                                         J   -83750.3      -265.2
                           Min      I
8038.7     -18026.0   -65921.9    -653.9
                                         J   -85917.3      -294.3
11955.3    -19570.2   -107770.7    -711.7
   83        1        1  svr_env  Max      I   -64544.5       11.7
150.4       5330.3    -3625.8     204.3
                                         I   -62998.7       11.7
-246.0      5307.6     565.9      200.8
                                         J   -64547.0       -23.6
                           Min      I
-2458.8     -5367.9   -43732.8    -595.2
                                         J   -63001.3       -38.0
-2885.0     -5396.0   -38487.9    -546.3
                     ult-env  Max      I   -64542.9       25.3
1552.2      11448.5    18499.7     436.8
                                         I   -62997.1       25.3
1590.3      11388.2    20720.5     429.0
                                         J   -64547.6       -25.7
                           Min      I
-3248.9     -11541.1   -42091.8    -732.3
                                         J   -63001.8       -46.6
-3274.8     -11601.4   -37494.3    -651.3
   84        1        1  svr_env  Max      I   -62995.8       11.7
-246.0      5307.4     565.9      202.5
                                         J   -61552.9       11.7
-254.2      5284.8     4947.2     199.7
                                         I   -62999.7       -38.0
-2885.0     -5396.0   -38487.9    -547.8
                                         J   -61556.8       -52.4
-2940.4     -5424.0   -33011.2    -464.9
                     ult-env  Max      I   -62992.7       25.3
1590.3      11388.2    20720.5     432.6
                                         I   -61549.8       25.3
2025.7      11327.8    21694.8     426.3
                                         J   -62999.9       -46.6
                           Min      I
-3274.8     -11601.3   -37494.3    -651.3
                                         J   -61557.0       -72.3
-2941.0     -11661.6   -33320.7    -508.7
   85        1        1  svr_env  Max      I   -61549.4       11.7
-254.2      5284.6     4947.2     201.5
                                         I   -61317.9       11.7
0.1         5262.0     8252.8     203.6
                                         J   -61554.5       -52.4
                           Min      I
-2940.4     -5424.0   -33011.2    -466.6
                                         J   -61323.0       -66.8
-2750.4     -5452.0   -28575.8    -353.5
                     ult-env  Max      I   -61544.7       25.3
2025.7      11327.8    21694.8     430.2
                                         I   -61313.2       25.3
2731.9      11267.5    20894.9     434.3
                                         J   -61554.0       -72.3
                           Min      I
-2941.0     -11661.6   -33320.7    -508.7
                                         J   -61322.5       -98.0
-2373.1     -11721.9   -31045.7    -384.5
   86        1        1  svr_env  Max      I   -61314.3       11.7
0.1         5261.9     8252.8     205.2
                                         I   -62421.1       11.7
429.5       5239.2     9998.4     209.9
                                         J   -61320.2       -66.8
                           Min      I
-2750.4     -5452.0   -28575.8    -355.0
                                         J   -62427.0       -81.2
-2401.9     -5480.1   -25349.6    -209.7
                     ult-env  Max      I   -61307.9       25.3
2731.9      11267.5    20894.9     437.7
                                         I   -62414.7       25.3
3620.7      11207.2    17473.3     447.3
                                         J   -61318.9       -98.0
                           Min      I
-2373.1     -11721.9   -31045.7    -387.6
                                         J   -62425.7      -123.7
-1658.1     -11782.2   -30638.6    -395.2
   87        1        1  svr_env  Max      I   -79540.5       11.7
1169.4      5218.4    24678.9     376.5
                                         I   -80918.1       11.7
2284.7      5600.8    23829.0     606.4
                                         J   -79547.4       -95.7
                           Min      I
-1759.5     -5553.1     -8972.9    -190.2
                                         J   -80925.0      -110.3
-774.8      -6103.8     -9640.5    -198.4
                     ult-env  Max      I   -79531.5       25.3
4830.7      11151.3    25945.2     465.4
                                         I   -80909.0       25.3
6421.8      11961.8    20924.0     685.5
                                         J   -79544.5      -149.6
                           Min      I
-657.9      -11939.3   -17802.1    -411.4
                                         J   -80922.1      -175.5
594.3       -13123.2   -23167.2    -429.0
   88        1        1  svr_env  Max      I   -80916.7       11.7
2284.7      5600.7    23829.0     607.2
                                         I   -82509.9       11.7
3887.5      6158.6    20747.8     873.0
                                         J   -80923.6      -110.3
                           Min      I
-774.8      -6103.8     -9640.5    -199.1
                                         J   -82516.8      -124.8
667.3       -6709.9    -13826.0    -207.9
                     ult-env  Max      I   -80907.1       25.3
6421.8      11961.8    20924.0     685.5
                                         I   -82500.3       25.3
8504.9      13149.6    13400.5    1141.5
                                         J   -80920.3      -175.5
                           Min      I
594.3       -13123.2   -23167.2    -430.6
                                         J   -82513.5      -201.4
2271.1      -14426.2   -33014.9    -449.7
   89        1        1  svr_env  Max      I   -82511.1       11.7
3887.5      6158.4    20747.8     872.8
                                         I   -84407.5       11.7
6259.3      6741.1    15315.6    1174.2
                                         J   -82517.2      -124.8
                           Min      I
667.3       -6709.9    -13826.0    -207.7
                                         J   -84413.6      -139.3
2869.0      -7343.3    -22863.4    -219.0
                     ult-env  Max      I   -82502.1       25.3
8504.9      13149.6    13400.5    1141.5
                                         I   -84398.5       25.3
11360.6     14390.8     3346.4    1660.2
                                         J   -82514.0      -201.4
                           Min      I
2271.1      -14426.3   -33014.9    -449.1
                                         J   -84410.4      -227.3
4705.9      -15788.0   -48680.2    -473.5
   90        1        1  svr_env  Max      I   -84413.5       11.7
6259.3      6740.5    15315.6    1172.1
                                         I   -86829.3       11.7
10131.9     7348.1     4753.2    1509.3
                                         J   -84417.5      -139.3
                           Min      I
2869.0      -7343.3    -22863.4    -217.5
                                         J   -86833.3      -153.8
6563.9      -8003.9    -38995.5    -232.2
                     ult-env  Max      I   -84407.5       25.3
11360.6     14390.9     3346.4    1660.2
                                         I   -86823.3       25.3
15719.2     15685.6    -12127.3    2241.6
                                         J   -84415.2      -227.3
                           Min      I
4705.9      -15788.0   -48680.2    -470.3
                                         J   -86831.0      -253.2
8632.6      -17208.4   -73340.0    -502.1
   91        1        1  svr_env  Max      I   -65082.5        6.5
66.0        5205.4     1463.6     100.6
                                         I   -67735.4        6.5
-2227.0     5163.5     5203.8      78.0
                                         J   -65085.7       -10.0
                           Min      I
-2302.5     -5333.8    -29582.9    -996.6
                                         J   -67738.6       -33.3
-4618.7     -5384.4    -21004.7    -915.1
                     ult-env  Max      I   -65080.4        13.8
1231.2      11165.5    38296.8     214.0
                                         I   -67733.3        13.8
-366.1      11056.7    39078.8     166.0
                                         J   -65086.0       -12.7
                           Min      I
-2900.1     -11467.6   -16867.9    -1611.7
                                         J   -67738.9       -48.6
-4547.2     -11576.4    -8850.2    -1503.8
   92        1        1  svr_env  Max      I   -67728.6        6.5
-2227.0     5162.7     5203.8      82.5
                                         I   -68023.7        6.5
-1904.5     5183.2    15337.1      60.2
                                         J   -67734.1       -33.3
                           Min      I
-4618.7     -5384.3    -21004.7    -918.7
                                         J   -68029.2       -56.5
-4363.1     -5629.3     -4702.8    -747.3
                     ult-env  Max      I   -67723.6        13.8
-366.1      11056.7    39078.8     175.6
                                         I   -68018.6        13.8
662.7       11082.0    43006.8     128.2
                                         J   -67733.0       -48.6
                           Min      I
-4547.2     -11576.3    -8850.2    -1503.7
                                         J   -68028.0       -90.1
-3719.5     -12103.0     5460.2    -1235.0
   93        1        1  svr_env  Max      I   -68019.5        6.5
-1904.5     5183.2    15337.1      62.2
                                         I   -65903.6        6.5
1414.7      5809.5    19289.6      39.9
                                         J   -68025.3       -56.5
                           Min      I
-4363.1     -5629.3     -4702.8    -749.0
                                         J   -65909.4       -79.8
-1156.1     -6332.4     6729.5     -487.5
                     ult-env  Max      I   -68012.7        13.8
662.7       11082.0    43006.8     132.6
                                         I   -65896.8        13.8
4711.1      12409.9    37529.1      85.1
                                         J   -68023.2       -90.1
                           Min      I
-3719.5     -12103.0     5460.2    -1235.0
                                         J   -65907.3       -131.6
-109.0      -13614.8    13470.2    -805.5
   94        1        1  svr_env  Max      I   -65907.1        6.5
1414.7      5810.0    19289.6      36.8
                                         I   -62829.7        6.5
7289.7      6787.4     4387.2      14.6
                                         J   -65910.9       -79.8
                           Min      I
-1156.1     -6332.5     6729.5     -485.0
                                         J   -62833.4       -103.0
4454.8      -7395.2     1128.7     -134.0
                     ult-env  Max      I   -65901.8        13.8
4711.1      12410.0    37529.1      78.5
                                         I   -62824.4        13.8
11398.0     14492.8     9384.4      31.3
                                         J   -65909.1       -131.6
                           Min      I
-109.0      -13614.8    13470.2    -805.5
                                         J   -62831.6       -173.1
5885.3      -15899.8     3016.3    -215.3
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BEAM ELEMENT FORCES & MOMENTS MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

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* LENGTH : the length of between two nodes

[SECTION NAME : 일반부 , SECTION ID : 1]

** MAX

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
67	AXL	ult-env	1	I	-59414.2	36.8	3857.5	11571.6	64417.1	587.9
3.10	15	SHY	ult-env	1	I	-82109.4	209.9	-898.8	14263.8	59570.1
1024.1	2.50	82	SHZ	ult-env	1	J	-85909.5	36.8	19432.2	17838.3
-36193.0	2444.9	2.72	82	TOR	ult-env	1	J	-85909.5	36.8	19432.2
17838.3	-36193.0	2444.9	2.72	15	MTY	ult-env	1	J	-83129.2	183.1
314.6	13045.1	68586.2	959.7	2.50	82	MTZ	ult-env	1	J	-85909.5	36.8	19432.2
17838.3	-36193.0	2444.9	2.72

** MIN

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
90	AXL	svr_env	1	I	-86833.3	-153.8	6563.9	-8003.9	-38995.5	-232.2
2.42	82	SHY	ult-env	1	J	-85917.3	-294.3	11955.3	-19570.2	-107770.7	-711.7
2.72	15	SHZ	ult-env	1	I	-82122.5	-36.1	-6549.1	-13001.5	14139.8	-931.3
2.50	82	TOR	ult-env	1	J	-85917.3	-294.3	11955.3	-19570.2	-107770.7	-711.7
2.72	76	MTY	ult-env	1	J	-84992.2	-247.1	8889.6	-17207.3	-113670.9	-396.6
2.72	40	MTZ	ult-env	1	J	-64969.9	-12.7	-2895.9	-11467.7	-16739.6	-1611.8
3.88

[SECTION NAME : 연결부 , SECTION ID : 2]

** MAX

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
6	AXL	ult-env	1	J	-81226.6	203.6	-1060.4	14244.5	35981.5	961.0
6.10	13	SHY	ult-env	1	I	-86985.1	328.7	-14484.7	20102.8	-27289.6	3446.1
2.70	7	SHZ	svr_env	1	J	-144690.9	107.1	9865.0	5903.0	41020.4	533.5
3.00	13	TOR	ult-env	1	I	-86985.1	328.7	-14484.7	20102.8	-27289.6	3446.1
2.70	28	MTY	svr_env	1	I	-145808.9	136.1	4736.1	6270.3	74050.1	732.8
3.00	13	MTZ	ult-env	1	I	-86985.1	328.7	-14484.7	20102.8	-27289.6	3446.1
2.70

** MIN

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
14	AXL	svr_env	1	I	-146452.5	-16.8	1118.3	-6733.5	36063.1	-475.1
3.00	13	SHY	ult-env	1	I	-86985.1	-36.1	-21996.2	-18323.8	-98542.5	-1254.0
2.70	13	SHZ	ult-env	1	I	-86985.1	-36.1	-21996.2	-18323.8	-98542.5	-1254.0
2.70	13	TOR	ult-env	1	I	-86985.1	-36.1	-21996.2	-18323.8	-98542.5	-1254.0
2.70	20	MTY	ult-env	1	I	-86893.7	-25.7	-18840.6	-16082.6	-99761.5	-728.7
6.10	13	MTZ	ult-env	1	I	-86985.1	-36.1	-21996.2	-18323.8	-98542.5	-1254.0
2.70

[SECTION NAME : 지점부 , SECTION ID : 3]

** MAX

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
31	AXL	ult-env	1	J	-61683.1	13.8	14541.6	15088.2	3162.1	0.0
1.20	12	SHY	ult-env	1	I	-86226.2	338.4	-16476.9	20577.5	-36827.9	3746.3
0.90	18	SHZ	ult-env	1	J	-86721.2	36.8	22169.8	18274.0	-34008.1	2714.1
0.90	12	TOR	ult-env	1	I	-86226.2	338.4	-16476.9	20577.5	-36827.9	3746.3
0.90	5	MTY	svr_env	1	J	-87117.0	161.7	-8045.5	8206.2	23070.8	1721.4
0.90	12	MTZ	ult-env	1	I	-86226.2	338.4	-16476.9	20577.5	-36827.9	3746.3
0.90

** MIN

ELEM	COM	LC	PT	AXIAL	SHEAR-y	SHEAR-z	TORSION	MOMENT-y	MOMENT-z	LENGTH
5	AXL	ult-env	1	J	-87117.0	-21.2	-17483.0	-16082.1	-54198.0	-728.5
0.90	18	SHY	ult-env	1	J	-86721.2	-304.0	14510.4	-20048.2	-111442.2	-738.6
0.90	12	SHZ	ult-env	1	I	-86226.2	-36.1	-24172.6	-18756.5	-113932.8	-1283.9
0.90	18	TOR	ult-env	1	J	-86721.2	-304.0	14510.4	-20048.2	-111442.2	-738.6
0.90	11	MTY	ult-env	1	J	-86118.1	-256.7	12428.7	-17694.1	-113999.0	-396.5
0.90	12	MTZ	ult-env	1	I	-86226.2	-36.1	-24172.6	-18756.5	-113932.8	-1283.9
0.90

BEAM ELEMENT STRESSES DEFAULT PRINTOUT
Unit System : kN , m

ELEM	MAT	SEC	LC	PT	AXIAL	SHEAR-y	SHEAR-z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)
1	1	3	svr_env	Max	I	-1783.1	5.5	-10.4	0.1	0.1	-750.7	493.6
J	-1800.3	5.1	73.8	1.4	0.2	771.1	648.1	Min	I	-1783.2	-0.5
-227.4	-0.1	-0.1	-1380.4	104.6	J	-1800.4	-0.5	-135.5	-0.2	-1.4	-1525.4	100.0
ult-env	Max	I	-1783.0	9.0	-135.2	0.2	0.2	1033.7	571.3

626.5 9.0 4.0 −370.7 4486.4
Min | −5602.0 −0.9
−288.6 −7.1 −4.0 −3416.3 1186.8
| −5719.6 −0.9
54.8 −4.0 −9.0 −3274.3 616.9
ult-env_Max | −5600.9 31.5
−45.2 8.7 9.5 −254.9 5568.7
| −5718.4 24.7
350.1 9.6 8.5 −502.2 6742.7
Min | −5601.8 −2.0
−1228.7 −9.5 −8.7 −3746.1 397.1
| −5719.3 −2.0
−706.4 −8.5 −9.6 −4407.5 768.3
30 1 1 svr_env_Max | −4671.0 14.9
629.7 9.0 3.9 728.5 2810.5
| −4742.2 8.4
799.6 17.7 3.1 2050.1 952.6
Min | −4671.4 −0.9
55.2 −3.9 −9.0 −2186.8 −1065.9
| −4742.5 −0.9
269.3 −3.1 −17.7 −1137.4 −2750.9
ult-env_Max | −4670.6 24.8
351.8 9.6 8.3 602.6 5071.2
| −4741.8 13.1
734.5 26.5 6.6 1306.5 4924.2
Min | −4671.3 −2.0
−710.1 −8.3 −9.6 −3343.6 −914.0
| −4742.4 −2.0
−191.9 −6.6 −26.5 −3332.0 −1582.3
31 1 3 svr_env_Max | −1745.5 0.3
542.2 1.4 0.1 422.9 1072.2
| −1713.4 0.3
742.8 0.0 0.0 782.6 454.8
Min | −1745.5 −5.1
331.4 −0.1 −1.4 −1874.2 523.0
| −1713.4 −5.4
524.2 −0.0 −0.0 −1348.5 65.8
ult-env_Max | −1745.5 0.7
847.8 2.3 0.2 590.6 1344.3
| −1713.4 0.7
1081.6 0.0 0.0 1065.6 532.6
Min | −1745.5 −8.5
437.7 −0.2 −2.3 −2395.6 612.4
| −1713.4 −9.2
650.8 −0.0 −0.0 −1704.8 27.0
32 1 1 svr_env_Max | −4763.0 6.6
732.3 11.3 4.4 3304.6 −797.0
| −4707.6 5.4
656.7 11.9 4.4 3415.1 −969.8
Min | −4763.2 −1.9
150.0 −4.4 −11.3 341.4 −5075.3
| −4707.8 −1.9
79.3 −4.4 −11.9 464.1 −5230.8
ult-env_Max | −4762.8 8.4
776.7 12.7 9.5 3541.2 1898.5
| −4707.4 6.2
748.9 13.9 9.4 3571.8 1832.8
Min | −4763.2 −4.1
−292.8 −9.5 −12.7 −1277.4 −5263.3
| −4707.8 −4.1
−310.2 −9.4 −13.9 −1236.6 −5293.7
33 1 1 svr_env_Max | −4618.3 3.5
471.3 12.4 4.3 3469.4 −1093.1
| −4546.5 2.3
228.3 12.5 4.2 3385.1 −1016.6
Min | −4618.3 −1.9
−101.8 −4.3 −12.4 556.6 −5306.4
| −4546.5 −1.9
−344.1 −4.2 −12.5 511.0 −5186.6
ult-env_Max | −4618.3 4.0
635.3 15.1 9.1 3536.9 1794.4
| −4546.5 4.0
441.6 15.4 9.0 3412.1 1881.7
Min | −4618.3 −4.1
−414.5 −9.1 −15.1 −1214.2 −5227.1
| −4546.5 −4.1
−606.7 −9.0 −15.4 −1274.1 −5039.3
34 1 1 svr_env_Max | −4543.0 2.3
228.3 12.5 4.2 3380.8 −1010.2
| −4429.3 1.9
34.1 12.2 4.2 3052.9 −640.2
Min | −4543.0 −1.9
−344.1 −4.2 −12.5 506.7 −5180.2
| −4429.3 −3.7
−541.9 −4.2 −12.2 268.1 −4721.7
ult-env_Max | −4543.0 4.0
441.6 15.4 9.0 3407.8 1888.0
| −4429.3 4.0
341.4 15.0 8.9 3058.2 2180.4
Min | −4543.0 −4.1
−606.7 −9.0 −15.4 −1278.4 −5033.0
| −4429.3 −4.1
−714.7 −8.9 −15.0 −1474.2 −4523.2
35 1 1 svr_env_Max | −4707.9 5.4
656.7 11.8 4.3 3415.1 −969.8
| −4618.3 3.5
471.3 12.4 4.3 3469.4 −1093.1
Min | −4707.9 −1.9
79.2 −4.3 −11.8 464.1 −5230.8
| −4618.3 −1.9
−101.8 −4.3 −12.4 556.6 −5306.4
ult-env_Max | −4707.9 6.2
748.9 13.9 9.3 3571.8 1832.8
| −4618.3 4.0
635.3 15.1 9.1 3536.9 1794.4
Min | −4707.9 −4.1
−310.2 −9.3 −13.9 −1236.6 −5293.7
| −4618.3 −4.1
−414.5 −9.1 −15.1 −1214.2 −5227.1
36 1 2 svr_env_Max | −3995.6 26.4
−679.6 3.5 19.5 510.4 2883.3
| −3937.3 25.1
−505.1 3.4 16.4 −287.7 3768.7
Min | −3995.6 −1.0
−979.2 −19.5 −3.5 −2166.2 −958.9
| −3937.3 −1.0
−797.1 −16.4 −3.4 −2853.6 155.8
ult-env_Max | −3995.6 45.3
−926.4 7.7 28.0 3226.1 1475.8
| −3937.3 42.9
−735.0 7.4 22.6 1919.2 2737.7
Min | −3995.6 −2.1
−1538.7 −28.0 −7.7 −1132.3 −4357.9
| −3937.3 −2.1
−1326.4 −22.6 −7.4 −2103.8 −2587.9
37 1 2 svr_env_Max | −3936.8 25.1
−507.7 3.5 16.5 −287.8 3768.8
| −3848.0 22.9
−275.6 3.3 11.5 −1238.0 4852.8
Min | −3937.0 −1.0
−799.6 −16.5 −3.5 −2853.7 155.9
| −3848.2 −1.0
−556.1 −11.5 −3.3 −3717.5 1493.1
ult-env_Max | −3936.5 42.9
−737.5 7.6 22.6 1919.1 2737.8
| −3847.8 39.0
−476.4 7.2 14.1 217.0 4418.0
Min | −3936.8 −2.1
−1328.9 −22.6 −7.6 −2103.9 −2587.8
| −3848.1 −2.1
−1034.3 −14.1 −7.2 −3419.8 −291.4
38 1 3 svr_env_Max | −2411.3 0.6
781.9 2.5 16.6 2478.7 1102.9
| −2406.3 0.6
933.1 2.6 17.8 2956.8 661.0
Min | −2411.3 −7.6
518.1 −16.6 −2.5 −2190.8 −1629.3
| −2406.3 −7.8
665.3 −17.8 −2.6 −1832.2 −2218.6
ult-env_Max | −2411.3 1.2
1197.6 5.4 24.7 4759.6 −200.0
| −2406.3 1.2
1367.8 5.5 26.8 5387.1 −758.6
Min | −2411.3 −12.6
673.2 −24.7 −5.4 −1457.4 −4535.5
| −2406.3 −13.0
832.4 −26.8 −5.5 −1004.2 −5384.0
39 1 1 svr_env_Max | −4612.4 5.3
668.5 19.7 2.6 2411.6 321.8
| −4554.9 4.1
567.6 20.2 2.5 2481.3 155.1
Min | −4612.6 −0.9
147.9 −2.6 −19.7 −788.1 −3145.8
| −4555.1 −0.9
50.0 −2.5 −20.2 −703.7 −3197.8
ult-env_Max | −4612.3 7.7
723.6 30.9 5.6 1517.1 4659.4
| −4554.8 5.4
671.2 32.0 5.3 1548.0 4570.4
Min | −4612.6 −2.0
−183.8 −5.6 −30.9 −3178.6 −1737.2
| −4555.1 −2.0
−230.0 −5.3 −32.0 −3124.8 −1724.8
40 1 1 svr_env_Max | −4554.9 4.1
581.2 20.2 2.5 2481.1 155.5
| −4458.3 1.0
16.1 20.4 2.0 2410.8 101.8
Min | −4554.9 −0.9
63.6 −2.5 −20.2 −703.9 −3197.5
| −4458.3 −1.6
−497.1 −2.0 −20.4 −668.2 −3089.4
ult-env_Max | −4554.9 5.4
684.7 32.0 5.2 1547.7 4570.8
| −4458.3 2.2
266.7 33.1 4.2 1431.3 4423.5
Min | −4554.9 −2.0
−216.4 −5.2 −32.0 −3125.0 −1724.4
| −4458.3 −2.0
−625.3 −4.2 −33.1 −3027.8 −1550.3
41 1 1 svr_env_Max | −4742.7 8.4
799.6 17.7 3.0 2050.1 952.6
| −4612.2 5.3
668.5 19.8 2.6 2411.6 321.8
Min | −4742.9 −0.9
269.3 −3.0 −17.7 −1137.4 −2750.9
| −4612.4 −0.9
147.9 −2.6 −19.8 −788.1 −3145.8
ult-env_Max | −4742.5 13.1
734.4 26.5 6.4 1306.5 4924.2
| −4612.0 7.7
723.6 30.9 5.6 1517.1 4659.4
Min | −4742.9 −2.0
−191.9 −6.4 −26.5 −3332.0 −1582.3
| −4612.4 −2.0
−183.8 −5.6 −30.9 −3178.6 −1737.2
42 1 1 svr_env_Max | −4563.2 3.4
501.4 14.2 3.6 3428.0 −1134.7
| −4433.7 1.8
106.9 14.1 3.2 3331.5 −916.7
Min | −4563.2 −1.6
−70.3 −3.6 −14.2 596.1 −5258.5
| −4433.7 −2.1
−465.9 −3.2 −14.1 437.6 −5105.6
ult-env_Max | −4563.2 3.8
759.6 19.7 7.6 3419.7 1757.0
| −4433.7 3.8
451.8 20.0 6.9 3402.0 1933.2
Min | −4563.2 −3.4
−285.5 −7.6 −19.7 −1189.5 −5051.2
| −4433.7 −3.4
43 1 1 svr_env_Max | −4562.4 13.4
466.2 8.7 0.9 1214.3 305.5
| −4687.9 10.5
622.9 13.4 1.5 1786.6 4.7
Min | −4562.8 −1.5
−115.6 −0.9 −8.7 −816.3 −1370.1
| −4688.3 −1.5
70.0 −1.5 −13.4 −612.5 −2211.4
ult-env_Max | −4561.9 21.5
218.7 13.9 2.0 841.5 1909.8
| −4687.4 16.3
448.8 21.5 3.2 1158.3 2670.7
Min | −4562.6 −3.2
−881.3 −2.0 −13.9 −1872.9 −691.6
| −4688.2 −3.2
−556.4 −3.2 −21.5 −2086.1 −1161.2
44 1 1 svr_env_Max | −4688.3 10.5
622.9 13.4 1.4 1786.6 4.7
| −4823.8 7.6
674.2 16.9 2.0 2503.4 −644.0
Min | −4688.6 −1.5
70.0 −1.4 −13.4 −612.5 −2211.4
| −4824.1 −1.5
142.2 −2.0 −16.9 −168.6 −3251.5
ult-env_Max | −4687.9 16.3
448.8 21.5 3.1 1158.3 2670.7
| −4823.5 11.1
577.0 27.0 4.3 1696.5 2764.7
Min | −4688.5 −3.2
−556.4 −3.1 −21.5 −2086.1 −1161.2
| −4824.0 −3.2
−352.0 −4.3 −27.0 −1938.4 −1949.4
45 1 1 svr_env_Max | −4824.1 7.6
674.2 16.9 1.9 2503.4 −644.0
| −4737.0 4.7
531.0 19.3 2.5 2880.2 −864.5
Min | −4824.4 −1.5
142.2 −1.9 −16.9 −168.6 −3251.5
| −4737.2 −1.5
14.6 −2.5 −19.3 −10.7 −3783.1
ult-env_Max | −4823.9 11.1
577.0 27.0 4.1 1696.5 2764.7
| −4736.8 5.9
544.7 30.4 5.3 1969.1 3060.6
Min | −4824.3 −3.2
−352.0 −4.1 −27.0 −1938.4 −1949.4
| −4737.2 −3.2
−352.4 −5.3 −30.4 −2089.0 −2339.1
46 1 1 svr_env_Max | −4737.4 4.7
531.0 19.2 2.4 2880.2 −864.5
| −4587.4 1.7
196.1 20.5 3.0 2874.3 −628.5
Min | −4737.4 −1.5
14.6 −2.4 −19.2 −10.7 −3783.1
| −4587.4 −1.5
−316.7 −3.0 −20.5 −167.8 −3764.2
ult-env_Max | −4737.4 5.9
544.7 30.4 5.2 1969.1 3060.6
| −4587.4 2.8
328.0 31.7 6.3 1928.1 3590.1
Min | −4737.4 −3.2
−352.4 −5.2 −30.4 −2089.0 −2339.1
| −4587.4 −3.2
−562.1 −6.3 −31.7 −2459.1 −2274.8
47 1 1 svr_env_Max | −4587.4 1.7
196.1 20.5 3.0 2874.3 −628.5
| −4437.1 1.3
−73.9 20.5 3.5 2470.2 94.0
Min | −4587.4 −1.5
−316.7 −3.0 −20.5 −167.8 −3764.2
| −4437.1 −4.0
−590.7 −3.5 −20.5 −662.1 −3181.0
ult-env_Max | −4587.4 2.8
328.0 31.7 6.3 1928.1 3590.1
| −4437.1 2.8
179.4 31.0 7.5 1554.1 4417.3
Min | −4587.4 −3.2
−562.1 −6.3 −31.7 −2459.1 −2274.8
| −4437.1 −4.5
−719.0 −7.5 −31.0 −3020.3 −1733.1
48 1 1 svr_env_Max | −4436.9 1.3
−73.9 20.5 3.5 2470.2 94.0
| −4298.0 1.3
−181.0 19.4 4.1 1866.1 1104.9
Min | −4437.1 −4.0
−590.7 −3.5 −20.5 −662.1 −3181.0
| −4298.2 −6.9
−705.7 −4.1 −19.4 −1295.4 −2391.2
ult-env_Max | −4436.8 2.8
179.4 31.0 7.5 1554.1 4417.3
| −4297.9 2.8
195.5 28.1 8.7 1047.6 5254.5
Min | −4437.1 −4.5
−719.0 −7.5 −31.0 −3020.3 −1733.1
| −4298.2 −9.8
−718.5 −8.7 −28.1 −3571.0 −1098.2
49 1 1 svr_env_Max | −4297.7 1.3
−181.0 19.4 4.1 1866.1 1104.9
| −4174.0 1.3
−161.0 17.2 4.6 1226.8 2119.9
Min | −4298.0 −6.9
−705.7 −4.1 −19.4 −1295.4 −2391.2
| −4174.3 −9.9
−695.5 −4.6 −17.2 −1899.0 −1574.3
ult-env_Max | −4297.5 2.8
195.5 28.1 8.7 1047.6 5254.5
| −4173.8 2.8
340.8 23.1 9.9 578.5 5839.1
Min | −4298.0 −9.8
−718.5 −8.7 −28.1 −3571.0 −1098.2
| −4174.2 −15.0
−592.7 −9.9 −23.1 −3931.7 −549.6
50 1 1 svr_env_Max | −4173.7 1.3
−161.0 17.2 4.7 1226.8 2119.9
| −4124.3 1.3
−21.8 13.7 5.2 732.6 2838.8
Min | −4174.0 −9.9
−695.5 −4.7 −17.2 −1899.0 −1574.3
| −4124.7 −12.8
−572.7 −5.2 −13.7 −2289.3 −960.9
ult-env_Max | −4173.3 2.8
340.8 23.1 10.0 578.5 5839.1
| −4124.0 2.8
612.7 16.1 11.1 330.9 5871.9
Min | −4173.9 −15.0
−592.7 −10.0 −23.1 −3931.7 −549.6
| −4124.6 −20.2
−362.7 −11.1 −16.1 −3908.7 −322.5
51 1 1 svr_env_Max | −4128.1 1.3
−23.2 13.8 5.3 736.5 2833.0
| −4217.2 1.3
194.9 9.2 5.8 493.0 3082.7
Min | −4128.5 −12.8
−574.0 −5.3 −13.8 −2285.4 −966.8
| −4217.6 −15.7
−378.4 −5.8 −9.2 −2356.9 −716.3
ult-env_Max | −4127.6 2.8
611.3 16.1 11.2 334.8 5866.0
| −4216.7 2.8
968.2 11.0 12.4 416.5 5158.4
Min | −4128.3 −20.2
−364.1 −11.2 −16.1 −3904.8 −328.4
| −4217.4 −25.4
−93.4 −12.4 −11.0 −3390.9 −633.7
52 1 1 svr_env_Max | −4723.8 12.0
896.4 8.9 5.3 1976.1 585.7
| −4827.1 9.8
895.4 11.2 4.9 2589.4 −210.1
Min | −4724.2 −1.6
280.6 −5.3 −8.9 −506.0 −3262.1
| −4827.4 −1.6
296.6 −4.9 −11.2 9.6 −4132.6
ult-env_Max | −4723.5 18.2
829.7 10.1 11.3 2194.9 2456.8
| −4826.8 14.4
907.9 12.0 10.4 2688.3 2078.0
Min | −4724.2 −3.4
−309.5 −11.3 −10.1 −1631.2 −3321.6
| −4827.4 −3.4
−195.0 −10.4 −12.0 −1390.0 −4018.9
53 1 1 svr_env_Max | −4827.3 9.8
895.4 11.1 4.8 2589.4 −210.1
| −4762.9 7.7
801.4 12.8 4.4 3007.8 −715.5
Min | −4827.6 −1.6
296.6 −4.8 −11.1 9.6 −4132.6
| −4763.2 −1.6
216.1 −4.4 −12.8 335.8 −4706.8
ult-env_Max | −4827.1 14.4
907.9 12.0 10.3 2688.3 2078.0
| −4762.7 10.6
894.2 15.7 9.5 3033.1 1908.0
Min | −4827.6 −3.4
−195.0 −10.3 −12.0 −1390.0 −4018.9
| −4763.3 −3.4
−180.0 −9.5 −15.7 −1283.8 −4507.6
54 1 1 svr_env_Max | −4763.1 7.7
801.4 12.8 4.4 3007.8 −715.5
| −4664.4 5.6
659.4 13.8 4.0 3286.3 −1014.2
Min | −4763.3 −1.6
216.0 −4.4 −12.8 335.8 −4706.8
| −4664.6 −1.6
83.2 −4.0 −13.8 525.6 −5078.1
ult-env_Max | −4763.0 10.6
894.2 15.7 9.4 3033.1 1908.0
| −4664.3 6.8
833.9 18.2 8.6 3271.9 1807.4
Min | −4763.4 −3.4
−180.0 −9.4 −15.7 −1283.8 −4507.6
| −4664.6 −3.4
−220.7 −8.6 −18.2 −1221.2 −4842.6
55 1 1 svr_env_Max | −4664.6 5.6
659.4 13.8 4.0 3286.3 −1014.2
| −4563.2 3.4
501.4 14.2 3.6 3428.0 −1134.7
Min | −4664.6 −1.6
83.2 −4.0 −13.8 525.6 −5078.1
| −4563.2 −1.6
−70.3 −3.6 −14.2 596.1 −5258.5
ult-env_Max | −4664.6 6.8
833.9 18.2 8.5 3271.9 1807.4
| −4563.2 3.8
759.6 19.7 7.6 3419.7 1757.0
Min | −4664.6 −3.4
−220.7 −8.5 −18.2 −1221.2 −4842.6
| −4563.2 −3.4
−285.5 −7.6 −19.7 −1189.5 −5051.2
56 1 1 svr_env_Max | −4433.4 1.8
106.9 14.1 3.2 3331.5 −916.7
| −4328.7 1.8
0.5 13.4 2.9 3039.5 −454.2
Min | −4433.6 −2.1
−465.9 −3.2 −14.1 437.6 −5105.6
| −4328.9 −4.2
−578.8 −2.9 −13.4 115.0 −4681.6
ult-env_Max | −4433.3 3.8
451.8 20.0 6.9 3402.0 1933.2
| −4328.6 3.8
436.3 19.2 6.2 3236.9 2241.1

Min I −4433.6 −3.4
−595.5 −6.9 −20.0 −1307.6 −5029.9
J −4328.9 −4.6
−624.9 −6.2 −19.2 −1509.6 −4805.4
57 1 1 svr_env Max I −4328.5 1.8
0.5 13.4 2.9 3039.5 −454.2
J −4244.6 1.8
56.7 12.2 2.7 2756.4 −42.8
Min I −4328.8 −4.2
−578.8 −2.9 −13.4 115.0 −4681.6
J −4244.9 −6.3
−533.3 −2.7 −12.2 −170.3 −4274.7
ult-env Max I −4328.3 3.8
436.3 19.2 6.3 3236.9 2241.1
J −4244.4 3.8
586.9 17.3 5.8 3125.1 2367.3
Min I −4328.8 −4.6
−624.9 −6.3 −19.2 −1509.6 −4805.4
J −4244.9 −8.4
−497.1 −5.8 −17.3 −1585.5 −4666.0
58 1 1 svr_env Max I −4244.4 1.8
56.7 12.3 2.8 2756.4 −42.8
J −4168.6 1.8
189.7 10.7 2.8 2567.1 228.5
Min I −4244.7 −6.3
−533.3 −2.8 −12.3 −170.3 −4274.7
J −4168.9 −8.5
−414.4 −2.8 −10.7 −359.5 −4007.2
ult-env Max I −4244.1 3.8
586.9 17.3 5.9 3125.1 2367.3
J −4168.3 3.8
817.2 14.2 6.1 3137.4 2194.3
Min I −4244.7 −8.4
−497.1 −5.9 −17.3 −1585.5 −4666.0
J −4168.9 −12.2
−297.0 −6.1 −14.2 −1460.0 −4715.4
59 1 1 svr_env Max I −4168.4 1.8
189.7 10.7 2.8 2567.1 228.5
J −4183.1 1.8
351.4 8.5 2.9 2539.2 203.1
Min I −4168.8 −8.5
−414.4 −2.8 −10.7 −359.5 −4007.2
J −4183.5 −10.6
−269.8 −2.9 −8.5 −351.6 −3980.2
ult-env Max I −4168.0 3.8
817.2 14.2 6.1 3137.4 2194.3
J −4182.7 3.8
1078.2 10.1 6.3 3356.8 1586.7
Min I −4168.7 −12.2
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J −4183.4 −16.1
−72.5 −6.3 −10.1 −1048.2 −5081.4
60 1 1 svr_env Max I −4740.3 16.0
578.3 14.0 8.3 −134.4 4059.4
J −4840.1 13.1
726.3 18.0 7.5 427.3 3401.5
Min I −4740.6 −2.7
−10.9 −8.3 −14.0 −2989.2 176.9
J −4840.4 −2.7
162.0 −7.5 −18.0 −2580.3 −652.6
ult-env Max I −4739.8 23.7
388.9 16.2 17.8 −731.3 7515.0
J −4839.6 18.5
644.2 19.8 16.2 −421.2 7642.5
Min I −4740.5 −5.7
−744.8 −17.8 −16.2 −4997.0 1068.3
J −4840.3 −5.7
−436.0 −16.2 −19.8 −5137.4 605.5
61 1 1 svr_env Max I −4840.4 13.1
726.3 18.0 7.5 427.3 3401.5
J −4724.3 10.1
728.3 21.2 7.1 836.8 2899.1
Min I −4840.7 −2.7
162.0 −7.5 −18.0 −2580.3 −652.6
J −4724.6 −2.7
183.7 −7.1 −21.2 −2266.5 −1239.6
ult-env Max I −4840.1 18.5
644.2 19.8 16.1 −421.2 7642.5
J −4724.0 13.2
754.6 26.1 15.2 −184.4 7660.0
Min I −4840.6 −5.7
−436.0 −16.1 −19.8 −5137.4 605.5
J −4724.6 −5.7
−283.2 −15.2 −26.1 −5197.1 264.1
62 1 1 svr_env Max I −4724.6 10.1
728.3 21.2 7.0 836.8 2899.1
J −4599.2 7.2
614.4 23.3 6.7 1149.4 2509.6
Min I −4724.8 −2.7
183.7 −7.0 −21.2 −2266.5 −1239.6
J −4599.4 −2.7
83.0 −6.7 −23.3 −2018.8 −1680.1
ult-env Max I −4724.4 13.2
754.6 26.1 15.1 −184.4 7660.0
J −4599.0 8.0
750.2 30.4 14.5 33.9 7531.7
Min I −4724.8 −5.7
−283.2 −15.1 −26.1 −5197.1 264.1
J −4599.5 −5.7
−259.3 −14.5 −30.4 −5144.9 −46.4
63 1 1 svr_env Max I −4599.5 7.2
614.4 23.2 6.7 1149.4 2509.6
J −4454.0 4.2
301.3 24.1 6.4 1167.7 2483.6
Min I −4599.5 −2.7
83.0 −6.7 −23.2 −2018.8 −1680.1
J −4454.0 −2.7
−225.3 −6.4 −24.1 −2008.2 −1698.1
ult-env Max I −4599.5 8.0
750.2 30.4 14.3 33.9 7531.7
J −4454.0 5.8
549.2 32.6 13.7 26.7 7568.0
Min I −4599.5 −5.7
−259.3 −14.3 −30.4 −5144.9 −46.4
J −4454.0 −5.7
−450.0 −13.7 −32.6 −5184.2 −30.8
64 1 1 svr_env Max I −4450.7 4.2
301.3 24.1 6.4 1162.6 2491.2
J −4317.8 2.7
165.6 23.9 6.1 905.5 2838.0
Min I −4450.7 −2.7
−225.3 −6.4 −24.1 −2013.3 −1690.6
J −4317.8 −4.1
−365.5 −6.1 −23.9 −2245.2 −1321.0
ult-env Max I −4450.7 5.8
549.2 32.6 13.7 21.6 7575.5
J −4317.8 5.8
530.9 32.6 13.0 −190.3 7803.9
Min I −4450.7 −5.7
−450.0 −13.7 −32.6 −5189.4 −23.3
J −4317.8 −5.7
−478.0 −13.0 −32.6 −5335.3 282.7
65 1 1 svr_env Max I −4317.6 2.7
165.6 23.9 6.1 905.5 2838.0
J −4192.4 2.7
152.7 22.5 5.8 563.3 3246.1
Min I −4317.8 −4.1
−365.5 −6.1 −23.9 −2245.2 −1321.0
J −4192.6 −7.0
−391.1 −5.8 −22.5 −2508.1 −832.4
ult-env Max I −4317.4 5.8
530.9 32.6 13.1 −190.3 7803.9
J −4192.3 5.8
641.9 30.5 12.5 −417.5 7890.6
Min I −4317.8 −5.7
−478.0 −13.1 −32.6 −5335.3 282.7
J −4192.6 −7.8
−394.2 −12.5 −30.5 −5365.8 608.9
66 1 1 svr_env Max I −4192.2 2.7
152.7 22.5 5.8 563.3 3246.1
J −4077.8 2.7
231.4 19.9 5.6 269.3 3551.9
Min I −4192.4 −7.0
−391.1 −5.8 −22.5 −2508.1 −832.4
J −4078.0 −10.0
−331.9 −5.6 −19.9 −2691.1 −413.6
ult-env Max I −4191.9 5.8
641.9 30.5 12.5 −417.5 7890.6
J −4077.5 5.8
851.3 26.3 11.9 −519.3 7624.0
Min I −4192.4 −7.8
−394.2 −12.5 −30.5 −5365.8 608.9
J −4078.0 −13.0
−227.0 −11.9 −26.3 −5143.3 751.8
67 1 1 svr_env Max I −4077.5 2.7
231.4 19.9 5.6 269.3 3551.9
J −4111.0 2.7
362.5 16.2 5.4 229.3 3408.2
Min I −4077.8 −10.0
−331.9 −5.6 −19.9 −2691.1 −413.6
J −4111.3 −12.9
−226.3 −5.4 −16.2 −2566.7 −367.2
ult-env Max I −4077.1 5.8
851.3 26.3 12.1 −519.3 7624.0
J −4110.6 5.8
1118.5 20.0 11.6 −288.9 6646.9
Min I −4077.7 −13.0
−227.0 −12.1 −26.3 −5143.3 751.8
J −4111.2 −18.3
−14.4 −11.6 −20.0 −4439.9 402.5
68 1 1 svr_env Max I −4110.7 2.7
362.5 16.2 5.4 −229.3 3408.2
J −4202.2 2.7
556.6 11.5 5.4 353.9 2913.3
Min I −4111.0 −12.9
−226.3 −5.4 −16.2 −2566.7 −367.2
J −4202.6 −15.9
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1118.5 20.0 11.7 −288.9 6646.9
J −4201.7 5.8
1451.9 11.6 11.7 183.9 5050.2
Min I −4110.9 −18.3
−14.4 −11.7 −20.0 −4439.9 402.5
J −4202.4 −23.5
245.2 −11.7 −11.6 −3335.9 −315.5
69 1 1 svr_env Max I −5359.5 1.3
441.3 5.5 7.0 −815.5 5541.7
J −5459.9 1.3
748.5 5.9 12.9 −635.7 5077.4
Min I −5359.9 −17.9
−153.1 −7.0 −5.5 −3870.1 1237.6
J −5460.3 −20.2
127.5 −12.9 −5.9 −3482.6 876.9
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1318.6 11.9 13.4 −398.0 6921.0
J −5459.2 2.8
1732.5 12.7 14.3 342.1 5193.0
Min I −5359.7 −29.4
187.2 −13.4 −11.9 −4475.3 616.8
J −5460.1 −33.5
522.6 −14.3 −12.7 −3530.2 −535.3
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748.5 5.9 13.0 −635.7 5077.4
J −5571.1 1.3
1138.3 6.3 19.6 −66.8 4271.2
Min I −5460.3 −20.2
127.5 −13.0 −5.9 −3482.6 876.9
J −5571.5 −22.5
489.6 −19.6 −6.3 −2890.3 −100.2
ult-env Max I −5459.2 2.8
1732.5 12.7 14.3 342.1 5193.0
J −5570.5 2.8
2226.8 13.5 22.5 1647.9 3485.6
Min I −5460.0 −33.5
522.6 −14.3 −12.7 −3530.2 −535.3
J −5571.3 −37.5
937.8 −22.5 −13.5 −2438.7 −2601.3
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J −5700.5 1.3
1669.5 6.6 26.9 966.5 2965.8
Min I −5571.6 −22.5
489.6 −19.6 −6.3 −2890.3 −100.2
J −5700.9 −24.8
991.6 −26.9 −6.6 −1997.9 −1828.5
ult-env Max I −5570.6 2.8
2226.8 13.5 22.5 1647.9 3485.6
J −5699.9 2.8
2860.8 14.3 34.9 3580.9 1371.6
Min I −5571.4 −37.5
937.8 −22.5 −13.5 −2438.7 −2601.3
J −5700.6 −41.6
1491.4 −34.9 −14.3 −1028.5 −5693.5
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1669.5 6.6 26.9 966.5 2965.8
J −5859.7 1.3
2484.6 7.0 35.0 2620.9 946.3
Min I −5701.2 −24.8
991.6 −26.9 −6.6 −1997.9 −1828.5
J −5859.9 −27.0
1770.5 −35.0 −7.0 −671.2 −4566.0
ult-env Max I −5700.6 2.8
2860.8 14.2 34.9 3580.9 1371.6
J −5859.3 2.8
3779.3 15.0 48.6 6285.6 −1493.4
Min I −5701.0 −41.6
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J −5859.7 −45.7
2320.4 −48.6 −15.0 836.8 −10037.8
73 1 1 svr_env Max I −5335.4 1.8
561.6 5.1 3.0 1528.5 1572.1
J −5435.8 1.8
813.9 3.2 5.7 1835.4 979.4
Min I −5335.8 −13.1
−80.8 −3.0 −5.1 −1261.1 −2462.1
J −5436.2 −15.7
144.4 −5.7 −3.2 −887.8 −2937.6
ult-env Max I −5334.8 3.8
1405.3 6.4 6.5 2684.9 2065.4
J −5435.2 3.8
1778.8 6.8 6.8 3437.4 435.5
Min I −5335.6 −20.6
195.8 −6.5 −6.4 −1340.4 −4137.0
J −5436.0 −25.2
484.1 −6.8 −6.8 −549.9 −5345.8
74 1 1 svr_env Max I −5435.6 1.8
813.9 3.2 5.7 1835.4 979.4
J −5541.4 1.8
1112.6 3.4 11.2 2443.6 165.9
Min I −5436.0 −15.7
144.4 −5.7 −3.2 −887.8 −2937.6
J −5541.8 −18.3
409.7 −11.2 −3.4 −383.7 −3889.8
ult-env Max I −5435.0 3.8
1778.8 6.8 6.8 3437.4 435.5
J −5540.8 3.8
2197.6 7.3 14.1 4660.6 −1114.2
Min I −5435.8 −25.2
484.1 −6.8 −6.8 −549.9 −5345.8
J −5541.6 −29.8
809.9 −14.1 −7.3 362.5 −7314.5
75 1 1 svr_env Max I −5541.4 1.8
1112.6 3.4 11.2 2866.4 161.7
J −5660.3 1.8
1505.3 3.6 17.7 3996.1 −1173.6
Min I −5541.8 −18.3
409.7 −11.2 −3.4 −385.0 −4548.5
J −5660.7 −20.8
762.2 −17.7 −3.6 434.0 −6337.3
ult-env Max I −5540.7 3.8
2197.6 7.2 14.1 5534.4 −1367.2
J −5659.6 3.8
2708.4 7.7 25.4 7591.5 −3552.3
Min I −5541.5 −29.8
809.9 −14.1 −7.2 518.7 −8685.9
J −5660.4 −34.3
1219.7 −25.4 −7.7 1860.0 −12015.7
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1505.3 3.6 17.7 3996.1 −1173.6
J −5798.3 1.8
2255.0 3.8 25.1 5722.6 −3144.0
Min I −5660.8 −20.8
762.2 −17.7 −3.6 434.0 −6337.3
J −5798.7 −23.4
1469.9 −25.1 −3.8 1641.1 −9090.7
ult-env Max I −5659.9 3.8
2708.4 7.6 25.4 7591.5 −3552.3
J −5797.8 3.8
3575.1 8.1 38.2 10435.8 −6429.9
Min I −5660.6 −34.3
1219.7 −25.4 −7.6 1860.0 −12015.7
J −5798.5 −38.9
1983.7 −38.2 −8.1 3620.6 −16624.4
77 1 2 svr_env Max I −4070.1 31.1
−757.4 8.6 32.1 1269.1 2046.8
J −3964.8 28.4
−477.2 7.9 24.6 −550.1 4058.6
Min I −4070.1 −2.8
−1080.0 −32.1 −8.6 −1743.5 −1718.5
J −3964.8 −2.8
−782.7 −24.6 −7.9 −3240.2 727.5
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−1019.1 18.5 41.2 4158.0 489.1
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Min I −4070.1 −6.1
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J −3964.8 −6.1
−1340.3 −29.0 −17.1 −2745.1 −1703.3
78 1 2 svr_env Max I −3964.2 28.4
−477.2 8.0 24.7 −442.9 3438.1
J −3867.9 25.7
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Min I −3964.3 −2.8
−782.7 −24.7 −8.0 −2769.4 571.8
J −3868.1 −2.8
−545.7 −18.1 −7.4 −3627.6 1913.1
ult-env Max I −3963.8 45.6
−704.1 17.2 29.0 1066.9 2820.0
J −3867.6 40.7
−445.2 15.9 18.0 −680.4 4723.7
Min I −3964.2 −6.1
−1340.3 −29.0 −17.2 −2362.6 −1434.3
J −3868.0 −6.1
−1040.6 −18.0 −15.9 −3683.9 909.9
79 1 1 svr_env Max I −5353.2 2.7
789.9 6.6 5.5 −442.6 3996.6
J −5458.9 2.7
1089.3 5.4 10.2 149.9 3161.6
Min I −5353.6 −18.4
145.4 −5.5 −6.6 −2888.3 663.1
J −5459.4 −21.0
414.4 −10.2 −5.4 −2330.9 −248.7
ult-env Max I −5352.5 5.8
1802.4 11.0 11.9 −161.7 5034.2
J −5458.2 5.8
2222.3 11.6 12.3 1073.7 3066.9
Min I −5353.4 −28.1
514.7 −11.9 −11.0 −3365.0 249.5
J −5459.1 −32.6
845.7 −12.3 −11.6 −2279.3 −1673.2
80 1 1 svr_env Max I −5458.8 2.7
1089.3 5.4 10.2 149.9 3161.6
J −5576.9 2.7
1471.5 5.8 17.5 1084.5 1996.7
Min I −5459.3 −21.0
414.4 −10.2 −5.4 −2330.9 −248.7
J −5577.3 −23.5
761.4 −17.5 −5.8 −1578.4 −1712.4
ult-env Max I −5458.1 5.8
2222.3 11.7 12.3 1073.7 3066.9
J −5576.1 5.8
2722.3 12.5 20.4 2813.3 1032.3
Min I −5459.0 −32.6
845.7 −12.3 −11.7 −2279.3 −1673.2
J −5577.0 −37.2
1252.0 −20.4 −12.5 −1042.7 −4425.8
81 1 1 svr_env Max I −5577.0 2.7
1471.5 5.8 17.5 1252.6 2335.7
J −5713.2 2.7
2001.9 6.2 25.7 2863.8 385.6
Min I −5577.4 −23.5
761.4 −17.5 −5.8 −1803.7 −1962.9
J −5713.6 −26.1
1252.4 −25.7 −6.2 −571.6 −4521.0
ult-env Max I −5576.3 5.8
2722.3 12.4 20.4 3340.7 1181.7
J −5712.5 5.8
3368.1 13.4 34.3 6088.2 −1755.3
Min I −5577.1 −37.2
1252.0 −20.4 −12.4 −1149.9 −5255.6
J −5713.3 −41.8
1799.6 −34.3 −13.4 696.3 −9654.6
82 1 1 svr_env Max I −5713.7 2.7
2001.9 6.2 25.7 2863.8 385.6
J −5861.5 2.7
2854.6 6.8 34.9 5277.2 −2470.9
Min I −5713.9 −26.1
1252.4 −25.7 −6.2 −571.6 −4521.0
J −5861.8 −28.6
2064.0 −34.9 −6.8 1214.7 −8379.2
ult-env Max I −5713.2 5.8
3368.1 13.3 34.3 6088.2 −1755.3
J −5861.0 5.8
4336.4 14.5 49.8 9889.0 −5661.3
Min I −5713.7 −41.8
1799.6 −34.3 −13.3 696.3 −9654.6
J −5861.6 −46.3
2667.3 −49.8 −14.5 3132.7 −15759.3
83 1 1 svr_env Max I −4429.1 1.9
34.1 12.2 4.2 3052.9 −640.2
J −4323.0 1.9
−53.5 11.2 4.1 2629.2 −146.7
Min I −4429.3 −3.7
−541.9 −4.2 −12.2 268.1 −4721.7
J −4323.2 −6.0
−638.8 −4.1 −11.2 −51.8 −4133.3
ult-env Max I −4429.0 4.0
341.4 15.0 9.0 3058.2 2180.4
J −4322.9 4.0
351.6 13.3 8.8 2684.8 2458.8
Min I −4429.3 −4.1
−714.7 −9.0 −15.0 −1474.2 −4523.2
J −4323.2 −7.4
−724.1 −8.8 −13.3 −1655.8 −3986.9
84 1 1 svr_env Max I −4322.8 1.9
−53.5 11.2 4.2 2629.2 −146.7
J −4223.8 1.9
−56.0 9.5 4.1 2185.2 378.0
Min I −4323.1 −6.0

```
-638.8      -4.2     -11.2     -51.8   -4133.3
                                          J   -4224.1                  -8.3
-655.2      -4.1      -9.5    -388.2   -3519.2
                                   ult-env  Max      J   -4322.6        4.0
 351.6      13.3       8.9    2684.8    2458.8
                                          J   -4223.6                  4.0
 451.0      10.4       8.7    2327.0    2598.3
                                    Min      I   -4323.1               -7.4
-724.1      -8.9     -13.3   -1655.8   -3986.9
                                          J   -4224.1                 -11.4
-654.7      -8.7     -10.4   -1739.3   -3476.2
    85       1         1   svr_env  Max      I   -4223.6                1.9
 -56.0       9.6       4.1    2185.2    378.0
                                          J   -4207.7                  1.9
   0.4       7.2       4.2    1820.9    782.6
                                    Min      I   -4223.9                -8.3
-655.2      -4.1      -9.6    -388.2   -3519.2
                                          J   -4208.0                 -10.6
-617.0      -4.2      -7.2    -640.6   -3021.0
                                   ult-env  Max      I   -4223.3        4.0
 451.0      10.4       8.8    2327.0    2598.3
                                          J   -4207.4                  4.0
 612.4       7.9       8.9    2101.8    2527.6
                                    Min      I   -4223.9               -11.4
-654.7      -8.8     -10.4   -1739.3   -3476.2
                                          J   -4208.0                 -15.5
-532.0      -8.9      -7.9   -1679.2   -3189.1
    86       1         1   svr_env  Max      I   -4207.4                1.9
   0.4       7.3       4.2    1820.9    782.6
                                          J   -4283.4                  1.9
  97.0       4.3       4.3    1550.4   1003.3
                                    Min      I   -4207.9               -10.6
-617.0      -4.2      -7.3    -640.6   -3021.0
                                          J   -4283.8                 -12.8
-541.7      -4.3      -4.3    -769.0   -2657.3
                                   ult-env  Max      I   -4207.0        4.0
 612.4       7.9       9.0    2101.8    2527.6
                                          J   -4283.0                  4.0
 816.3       8.1       9.2    2022.0    2133.1
                                    Min      I   -4207.8               -15.5
-532.0      -9.0      -7.9   -1679.2   -3189.1
                                          J   -4283.7                 -19.6
-373.8      -9.2      -8.1   -1405.0   -3171.8
    87       1         1   svr_env  Max      I   -5426.5                1.9
 263.4       3.9       7.7    226.8    2810.5
                                          J   -5520.5                  1.8
 514.7       4.0      12.4    270.4    2717.7
                                    Min      I   -5427.0               -15.1
-396.3      -7.7      -3.9   -1926.8    662.9
                                          J   -5521.0                 -17.4
-174.7     -12.4      -4.0   -1844.1    748.9
                                   ult-env  Max      I   -5425.9        4.0
1087.2       8.4       9.5    934.3    3178.3
                                          J   -5519.9                  4.0
1446.2       8.8      14.0   1393.9    2304.7
                                    Min      I   -5426.8               -23.6
-148.1      -9.5      -8.4   -2056.1   -1615.0
                                          J   -5520.8                 -27.7
 133.6     -14.0      -8.8   -1605.1   -2284.3
    88       1         1   svr_env  Max      I   -5520.4                1.8
 514.7       4.1      12.4    270.4    2717.7
                                          J   -5629.1                  1.8
 873.9       4.2      17.8    590.6    2340.9
                                    Min      I   -5520.9               -17.4
-174.7     -12.4      -4.1   -1844.1    748.9
                                          J   -5629.6                 -19.7
 149.7     -17.8      -4.2   -1586.2   -1266.6
                                   ult-env  Max      I   -5519.8        4.0
1446.2       8.8      14.0   1393.9    2304.7
                                          J   -5628.5                  4.0
1911.3       9.2      23.3   2261.3    1379.1
                                    Min      I   -5520.7               -27.7
 133.6     -14.0      -8.8   -1605.1   -2284.3
                                          J   -5629.4                 -31.7
 510.0     -23.3      -9.2   -1000.1   -3560.1
    89       1         1   svr_env  Max      I   -5629.2                1.8
 873.9       4.2      17.8    666.0    2744.6
                                          J   -5758.6                  1.8
1401.7       4.5      23.9   1488.8    1946.8
                                    Min      I   -5629.6               -19.7
 149.7     -17.8      -4.2   -1813.0   -1433.5
                                          J   -5759.0                 -21.9
 641.9     -23.9      -4.5   -1294.6   -2755.6
                                   ult-env  Max      I   -5628.6        4.0
1911.3       9.2      23.3   2685.2    1593.6
                                          J   -5758.0                  4.0
2543.4       9.7      33.8   4311.2     120.0
                                    Min      I   -5629.4               -31.7
 510.0     -23.3      -9.2   -1099.4   -4227.7
                                          J   -5758.8                 -35.8
1053.0     -33.8      -9.7    -159.8   -6838.6
    90       1         1   svr_env  Max      I   -5759.0                1.8
1401.7       4.4      23.9   1488.8    1946.8
                                          J   -5923.8                  1.8
2261.6       4.7      30.8   2952.9     399.9
                                    Min      I   -5759.3               -21.9
 641.9     -23.9      -4.4   -1294.6   -2755.6
                                          J   -5924.1                 -24.2
1464.3     -30.8      -4.7    -313.3   -5110.7
                                   ult-env  Max      I   -5758.6        4.0
2543.4       9.6      33.8   4311.2     120.0
                                          J   -5923.4                  4.0
3507.9      10.2      45.7   6729.9   -2142.4
                                    Min      I   -5759.1               -35.8
1053.0     -33.8      -9.6    -159.8   -6838.6
                                          J   -5923.9                 -39.9
1925.8     -45.7      -10.2   1266.4   -10724.6
    91       1         1   svr_env  Max      I   -4466.0                1.0
  15.2      20.4       2.1   2420.9     87.0
                                          J   -4648.1                  1.0
 -487.3      18.8       1.6   1840.8    639.8
                                    Min      I   -4466.2               -1.6
-498.1      -2.1     -20.4    -658.1   -3104.2
                                          J   -4648.3                 -5.3
-1012.6     -1.6     -18.8   -1037.5   -2272.7
                                   ult-env  Max      I   -4465.9        2.2
 265.8      33.1       4.4   1441.4    4408.7
                                          J   -4647.9                  2.2
 -80.2      30.8       3.4    917.1    4582.4
                                    Min      I   -4466.3               -2.0
-626.2      -4.4     -33.1   -3017.7   -1565.1
                                          J   -4648.3                 -7.7
-996.3      -3.4     -30.8   -3107.1    -799.8
    92       1         1   svr_env  Max      I   -4647.6                1.0
 -487.3      18.8       1.7   1840.8    639.8
                                          J   -4667.8                  1.0
-424.5      15.3       1.2    631.0   1986.6
                                    Min      I   -4648.0               -5.3
-1012.6     -1.7     -18.8   -1037.5   -2272.7
                                          J   -4668.2                 -8.9
-973.5      -1.2     -15.3   -1936.8    489.2
                                   ult-env  Max      I   -4647.3        2.2
 -80.2      30.8       3.6    917.1    4582.4
                                          J   -4667.5                  2.2
 147.8      25.3       2.6   -120.6   5166.2
                                    Min      I   -4647.9               -7.7
-996.3      -3.6     -30.8   -3107.1    -799.8
                                          J   -4668.1                 -14.3
-830.0      -2.6     -25.3   -3609.0    750.5
    93       1         1   svr_env  Max      I   -4667.6                1.0
 -424.5      15.3       1.3    631.0   1986.6
                                          J   -4522.4                  1.0
 318.8      10.0       0.8   -200.0   2623.6
                                    Min      I   -4668.0               -8.9
-973.5      -1.3     -15.3   -1936.8    489.2
                                          J   -4522.8                 -12.6
-260.6      -0.8     -10.0   -2340.8    772.8
                                   ult-env  Max      I   -4667.1        2.2
 147.8      25.3       2.7   -120.6   5166.2
                                          J   -4521.9                  2.2
1061.3      16.5       1.7   -656.0   4581.6
                                    Min      I   -4667.8               -14.3
-830.0      -2.7     -25.3   -3609.0    750.5
                                          J   -4522.6                 -20.8
 -24.7      -1.7     -16.5   -3530.2   1583.6
    94       1         1   svr_env  Max      I   -4522.6                1.0
 318.8       9.9       0.8   -200.0   2623.6
                                          J   -4311.4                  1.0
1645.8       2.7       0.3    336.1    937.8
                                    Min      I   -4522.9               -12.6
-260.6      -0.8      -9.9   -2340.8    772.8
                                          J   -4311.7                 -16.3
1005.7      -0.3      -2.7   -1230.2    -40.6
                                   ult-env  Max      I   -4522.2        2.2
1061.3      16.5       1.6   -656.0   4581.6
                                          J   -4311.1                  2.2
2573.3       4.4       0.6    291.8   1455.7
                                    Min      I   -4522.7               -20.8
 -24.7      -1.6     -16.5   -3530.2   1583.6
                                          J   -4311.6                 -27.3
1328.6      -0.6      -4.4   -1753.3    146.4
```

BEAM ELEMENT STRESSES MIN/MAX SUMMARY BY PROPERTY
PRINTOUT Unit System : kN , m

[SECTION NAME : 일반부 , SECTION ID : 1]

** MAX

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
    67 AXL  ult-env        1    J   -4077.1        5.8      851.3
  26.3      12.1     -519.3    7624.0
    15 SHY  ult-env        1    J   -5601.8       33.1     -202.1
  19.0      20.9    -1460.4    7323.5
    82 SHZ  ult-env        1    J   -5861.0        5.8     4336.4
  14.5      49.8     9889.0   -5661.3
    40 BY+  ult-env        1    J   -4458.3        2.2      266.7
  33.1       4.2     1431.3    4423.5
    82 BY-  ult-env        1    J   -5861.0        5.8     4336.4
  14.5      49.8     9889.0   -5661.3
    76 BZ+  ult-env        1    J   -5797.8        3.8     3575.1
   8.1      38.2    10435.8   -6429.9
    15 BZ-  ult-env        1    J   -5671.4       28.9       71.0
  17.8      19.6    -1830.2    8375.8
```

** MIN

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
    90 AXL  svr_env        1    J   -5924.1      -24.2     1464.3
  -30.8      -4.7     -313.3   -5110.7
    82 SHY  ult-env        1    J   -5861.6      -46.3     2667.3
  -49.8     -14.5     3132.7  -15759.3
    15 SHZ  ult-env        1    J   -5602.7       -5.7    -1474.6
  -20.9     -19.0    -4782.2    2264.7
    82 BY+  ult-env        1    J   -5861.6      -46.3     2667.3
  -49.8     -14.5     3132.7  -15759.3
    40 BY-  ult-env        1    J   -4458.3       -2.0     -625.3
  -4.2      -33.1    -3027.8   -1550.3
    15 BZ+  ult-env        1    J   -5672.3       -5.7    -1124.0
  -19.6     -17.8    -5455.8    2787.0
    76 BZ-  ult-env        1    J   -5798.5      -38.9     1983.7
  -38.2      -8.1     3620.6  -16624.4
```

[SECTION NAME : 연결부 , SECTION ID : 2]

** MAX

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
     6 AXL  ult-env        1    J   -3834.3       34.3      -103.3
  10.1      15.2      376.5    3758.5
    13 SHY  ult-env        1    J   -4106.1       55.3     -1401.6
  19.9      54.6     8198.2   -3374.3
     7 SHZ  svr_env        1    J   -6718.7       17.7      963.8
   4.4       8.3     -965.1    3709.5
    13 BY+  ult-env        1    J   -4106.1       55.3     -1401.6
  19.9      54.6     8198.2   -3374.3
    13 BY-  ult-env        1    J   -4106.1       55.3     -1401.6
  19.9      54.6     8198.2   -3374.3
    20 BZ+  ult-env        1    J   -4101.5       44.2     -1130.6
  11.6      39.2     8300.5   -3362.7
    28 BZ-  svr_env        1    J   -6770.7       22.5      458.9
   3.4      11.4    -3022.5    6853.6
```

** MIN

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
    14 AXL  svr_env        1    J   -6800.6       -2.8       108.7
  -17.9      -7.4     -5008.2    3804.5
    78 SHY  ult-env        1    J   -3868.0       -6.1     -1040.6
  -18.0     -15.9     -3683.9     909.9
    13 SHZ  ult-env        1    J   -4106.1       -6.1     -2128.9
  -54.6     -19.9     2205.9   -11089.3
    13 BY+  ult-env        1    J   -4106.1       -6.1     -2128.9
  -54.6     -19.9     2205.9   -11089.3
    13 BY-  ult-env        1    J   -4106.1       -6.1     -2128.9
  -54.6     -19.9     2205.9   -11089.3
    28 BZ+  svr_env        1    J   -6771.1       -1.0      179.8
  -11.4      -3.4     -5164.6    3963.8
    20 BZ-  ult-env        1    J   -4101.8       -4.3     -1823.6
  -39.2     -11.6     2206.0   -11226.9
```

[SECTION NAME : 지점부 , SECTION ID : 3]

** MAX

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
    31 AXL  ult-env        1    J   -1713.4        0.7     1081.6
   0.0       0.0     1065.6     532.6
    12 SHY  ult-env        1    J   -2389.5       16.7     -1212.1
  13.9      40.5     7404.9   -2900.4
    18 SHZ  ult-env        1    J   -2403.2        1.8     1631.1
   8.0      29.4     7247.5   -2694.2
    12 BY+  ult-env        1    J   -2389.5       16.7     -1212.1
  13.9      40.5     7404.9   -2900.4
    12 BY-  ult-env        1    J   -2389.5       16.7     -1212.1
  13.9      40.5     7404.9   -2900.4
    11 BZ+  ult-env        1    J   -2386.5        1.2     1452.6
   4.3      22.8     7409.2   -2906.3
     5 BZ-  svr_env        1    J   -2414.1        8.0      -591.2
   3.7      18.6     2108.2    1519.3
```

** MIN

```
  ELEM  COM        LC          PT      AXIAL    SHEAR-y
SHEAR-Z  (+y)-BENDING-(-y)   (+z)-BENDING-(-z)

------  ---  ----------------  ---  ---------  ---------
--------- --------- --------- --------- ---------
     5 AXL  ult-env        1    J   -2414.1       -1.0     -1285.0
  -26.0      -7.9     -1852.4    -3959.8
    18 SHY  ult-env        1    J   -2403.2      -15.0     1067.4
  -29.4      -8.0      566.1    -8147.4
    12 SHZ  ult-env        1    J   -2389.5       -1.8     -1778.4
  -40.5     -13.9      733.3    -8329.5
    12 BY+  ult-env        1    J   -2389.5       -1.8     -1778.4
  -40.5     -13.9      733.3    -8329.5
    12 BY-  ult-env        1    J   -2389.5       -1.8     -1778.4
  -40.5     -13.9      733.3    -8329.5
     5 BZ+  svr_env        1    J   -2414.1       -0.5      -851.8
  -18.6      -3.7    -2527.7    -1173.8
    11 BZ-  ult-env        1    J   -2386.5      -12.7      914.2
  -22.8      -4.3      738.1    -8334.4
```