

물곡2코 INPUT 8, 46.1507620204818, -1.02358428878554, 0 49, 64.6561529913979, -5.63244873678957, -2.413 29, 76.4433307063459, -6.43887583516942, 0
----- 9, 100.425856112693, -1.02428474476239, 0 50, 70.5683846046358, -0.158411465618599, -2.013 30, 82.2770228021092, -6.52333413118464, 0
---- 10, 100.425856112693, -0.942368707147976, 0 51, 76.4812194013049, -0.158411465618599, -2.413 31, 88.1089700032381, -6.52405498467849, 0
: MIDAS/Civil Text(MCT) File. -0.158411465618599, -2.413 32, 93.9380028224267, -6.4410382510679, 0
: Date : 2021/4/29 11, 100.784271362278, -0.777852602662649, 0 52, 82.3934714319845, -5.64661215866328, -2.013 33, 105.582650522287, -6.27430058118966, 0
----- 12, 100.784271362278, -0.53076942191649, 0 53, 88.3039548641395, -5.64661215866328, -2.413 34, 111.395930287911, -6.02387541796074, 0
---- 13, 146.075660349625, 0.210883429484439, 0 54, 94.2114842199665, -6.02387541796074, 0
*VERSION 9.0.0 5.39486926814004, -2.013 35, 117.201625909766, -5.27218029990654, 0
*UNIT : Unit System 14, 146.075660349625, 0.705304375611205, 0 55, 106.012941991603, -5.27218029990654, 0
: FORCE, LENGTH, HEAT, TEMPER 5.39486926814004, -2.413 36, 122.998573164805, -4.77106111411526, 0
KN , M, KCAL, C 15, 147.051192471245, 1.28199497876679, 0 56, 111.904503364785, -4.77106111411526, 0
*STRUCTYPE : Structure Type -0.0179275033911912, -2.013 37, 128.785609584305, -4.18655594280114, 0
: ISTYP, IMASS, ISMAS, bMASSOFFSET, 16, 147.051192471245, 1.94083959449885, 0 57, 117.788377051145, -4.18655594280114, 0
bSELFWEIGHT, GRAV, TEMPER, -0.0179275033911912, -2.413 38, 134.561574686972, -3.51878202136718, 0
bALIGNBEAM, bALIGNSLAB, bROTRIGID 17, 6.72839049291561, 2.68170610391344, 0 58, 123.663382910052, -3.51878202136718, 0
0, 1, 1, NO, YES, 9.806, 0, NO, 4.42493362390614, 0 59, 129.528342579511, -2.76787328660046, 0
NO, NO 18, 12.4919086772518, 3.51910149585409, 0 60, 135.382079712515, -2.76787328660046, 0
*REBAR-MATL-CODE : Rebar 19, 18.2676760588521, 2.69497477074911, 0 61, 141.223420212981, -1.93398034980853, 0
Material Code 20, 24.0545344162166, -1.00076389996192, 0 70, 0, 0, 0
: CONC_CODE, CONC_MDB, SRC_CODE, 21, 29.851323303759, 41.8686452270247, -1.01727046661066, 0
SRC_MDB 22, 35.656880284513, -1.91889803065825, 0
KSCE-LSD15(RC), SD300, 1.95271871170317, 0 42, 17.5221788606629, 71, 0.978277270996068, 5.41228950731189, 0
KSCE-LSD15(RC), SD300 23, 41.4700411632346, 43, 23.3869552641871, 73, 100.425856112693, -0.158411465618599, 0
*NODE : Nodes 24, 46.512337571016, 44, 29.2617981273467, 74, 100.784271362278, -5.64661215866328, 0
: iNO, X, Y, Z 25, 53.1145104432799, -4.17576337106338, 0 75, 146.075660349625, 5.39486926814004, 0
1, 0.978277270996068, 0.714397526278131, 0 45, 35.1455291208404, 76, 147.051192471245, -0.0179275033911912, 0
5.41228950731189, -2.013 26, 58.9434837653348, -4.76170317047711, 0 77, 46.1507620204818, -5.63244873678957, 0
2, 0.978277270996068, 27, 64.7753912950782, 48, 58.7457103900313, 78, 46.3315497957489, -2.88604730463322, -2.413
3, 0, 0, -2.013 28, 70.6090635531598, -6.27069703660673, 0
4, 0, 0, -2.413 29, 70.6090635531598, -6.27069703660673, 0
5, 46.512337571016, -0.525868196367236, 0
-0.13964587247688, -2.013 26, 58.9434837653348, -0.77435102506665, 0
6, 46.512337571016, -0.77435102506665, 0
-0.13964587247688, -2.413 27, 64.7753912950782, -0.940267479680691, 0
7, 46.1507620204818, -0.940267479680691, 0
-5.63244873678957, -2.013 28, 70.6090635531598, 70.6090635531598, 0

79, 100.605063737485, 13, BEAM , 1, 1, 19, 39, 0, 0 54, BEAM , 1, 1, 56, -2.90251181214094, -2.413 20, 0, 0 57, 0, 0 55, BEAM , 1, 1, 57, 80, 46.3315497957489, 14, BEAM , 1, 1, 20, 75, 0, 0 58, 0, 0 56, BEAM , 1, 1, 58, -2.88604730463322, -3.988 21, 0, 0 59, 0, 0 57, BEAM , 1, 1, 59, 81, 100.605063737485, 15, BEAM , 1, 1, 21, 40, 0, 0 60, 0, 0 58, BEAM , 1, 1, 60, -2.90251181214094, -3.988 22, 0, 0 61, 0, 0 59, BEAM , 1, 1, 61, 82, 46.3315497957489, 16, BEAM , 1, 1, 22, 41, 0, 0 62, 0, 0 60, BEAM , 1, 2, 71, -2.88604730463322, -5.488 23, 0, 0 63, 0, 0 61, BEAM , 1, 1, 61, 83, 100.605063737485, 17, BEAM , 1, 1, 23, 42, 0, 0 64, BEAM , 1, 1, 60, -2.90251181214094, -5.488 24, 0, 0 65, BEAM , 1, 1, 61, 84, 46.3315497957489, 18, BEAM , 1, 1, 24, 43, 0, 0 66, BEAM , 1, 2, 71, -2.88604730463322, -28.613 25, 0, 0 67, 0, 0 61, BEAM , 1, 2, 17, 85, 100.605063737485, 19, BEAM , 1, 1, 25, 44, 0, 0 68, BEAM , 1, 2, 18, -2.90251181214094, -23.313 26, 0, 0 69, BEAM , 1, 2, 19, 86, 46.3315497957489, 20, BEAM , 1, 1, 26, 45, 0, 0 70, 0, 0 62, BEAM , 1, 2, 18, -2.88604730463322, -13.1963333333333 27, 0, 0 71, 0, 0 63, BEAM , 1, 2, 19, 87, 46.3315497957489, 21, BEAM , 1, 1, 27, 46, 0, 0 64, BEAM , 1, 2, 20, -2.88604730463322, -20.9046666666667 28, 0, 0 65, BEAM , 1, 2, 21, 47, BEAM , 1, 1, 50, 48, BEAM , 1, 1, 51, 49, 0, 0 66, BEAM , 1, 2, 22, 88, 100.605063737485, 22, BEAM , 1, 1, 28, 49, 0, 0 67, BEAM , 1, 2, 23, -2.90251181214094, -11.4296666666667 29, 0, 0 68, BEAM , 1, 2, 24, 50, 0, 0 68, BEAM , 1, 2, 25, 89, 100.605063737485, 23, BEAM , 1, 1, 29, 51, 0, 0 69, BEAM , 1, 2, 26, -2.90251181214094, -17.3713333333333 30, 0, 0 70, 0, 0 70, BEAM , 1, 2, 27, *ELEMENT : Elements 24, BEAM , 1, 1, 30, 52, BEAM , 1, 1, 52, 53, 0, 0 71, BEAM , 1, 2, 28, : iEL, TYPE, iMAT, iPRO, iN1, iN2, 31, 0, 0 72, BEAM , 1, 1, 36, 54, 0, 0 72, BEAM , 1, 2, 28, ANGLE, iSUB, : 25, BEAM , 1, 1, 31, 55, 0, 0 73, BEAM , 1, 1, 37, 55, 0, 0 73, BEAM , 1, 2, 29, Frame Element 32, 0, 0 74, 0, 0 74, BEAM , 1, 1, 74, 56, 0, 0 74, BEAM , 1, 2, 29, : iEL, TYPE, iMAT, iPRO, iN1, iN2, 73, 0, 0 75, 0, 0 75, BEAM , 1, 1, 38, 57, 0, 0 75, BEAM , 1, 2, 30, ANGLE, iSUB, EXVAL, EXVAL2, bLMT : 27, BEAM , 1, 1, 73, 58, 0, 0 76, BEAM , 1, 2, 31, : iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, 33, 0, 0 77, 0, 0 77, BEAM , 1, 2, 32, iN4, iSUB, iWID , LCAXIS : Planar 28, BEAM , 1, 1, 33, 78, 0, 0 78, BEAM , 1, 2, 33, Element 34, 0, 0 79, BEAM , 1, 2, 34, 79, 0, 0 79, BEAM , 1, 2, 35, 10, BEAM , 1, 1, 71, 36, 0, 0 80, BEAM , 1, 1, 36, 17, 0, 0 37, BEAM , 1, 1, 37, 37, 0, 0 81, BEAM , 1, 1, 17, 38, 0, 0 38, 0, 0 38, BEAM , 1, 1, 38, 18, 0, 0 39, BEAM , 1, 1, 38, 39, 0, 0 40, BEAM , 1, 1, 39, 19, 0, 0 41, BEAM , 1, 1, 40, 40, BEAM , 1, 1, 40, 41, BEAM , 1, 1, 41, 41, BEAM , 1, 1, 41, 42, BEAM , 1, 1, 42, 42, BEAM , 1, 1, 42, 43, BEAM , 1, 1, 43, 43, BEAM , 1, 1, 43, 44, BEAM , 1, 1, 44, 44, BEAM , 1, 1, 44, 45, BEAM , 1, 1, 45, 45, BEAM , 1, 1, 45, 46, BEAM , 1, 1, 46, 46, BEAM , 1, 1, 46, 47, BEAM , 1, 1, 47, 47, BEAM , 1, 1, 47, 48, BEAM , 1, 1, 48, 48, BEAM , 1, 1, 48, 49, BEAM , 1, 1, 49, 49, BEAM , 1, 1, 49, 50, BEAM , 1, 1, 50, 50, BEAM , 1, 1, 50, 51, BEAM , 1, 1, 51, 51, BEAM , 1, 1, 51, 52, BEAM , 1, 1, 52, 52, BEAM , 1, 1, 52, 53, BEAM , 1, 1, 53, 53, BEAM , 1, 1, 53, 54, BEAM , 1, 1, 54, 54, BEAM , 1, 1, 54, 55, BEAM , 1, 1, 55, 55, BEAM , 1, 1, 55, 56, BEAM , 1, 1, 56, 56, BEAM , 1, 1, 56, 57, BEAM , 1, 1, 57, 57, BEAM , 1, 1, 57, 58, BEAM , 1, 1, 58, 58, BEAM , 1, 1, 58, 59, BEAM , 1, 1, 59, 59, BEAM , 1, 1, 59, 60, BEAM , 1, 1, 60, 60, BEAM , 1, 1, 60, 61, BEAM , 1, 1, 61, 61, BEAM , 1, 1, 61, 62, BEAM , 1, 1, 62, 62, BEAM , 1, 1, 62, 63, BEAM , 1, 1, 63, 63, BEAM , 1, 1, 63, 64, BEAM , 1, 1, 64, 64, BEAM , 1, 1, 64, 65, BEAM , 1, 1, 65, 65, BEAM , 1, 1, 65, 66, BEAM , 1, 1, 66, 66, BEAM , 1, 1, 66, 67, BEAM , 1, 1, 67, 67, BEAM , 1, 1, 67, 68, BEAM , 1, 1, 68, 68, BEAM , 1, 1, 68, 69, BEAM , 1, 1, 69, 69, BEAM , 1, 1, 69, 70, BEAM , 1, 1, 70, 70, BEAM , 1, 1, 70, 71, BEAM , 1, 1, 71, 71, BEAM , 1, 1, 71, 72, BEAM , 1, 1, 72, 72, BEAM , 1, 1, 72, 73, BEAM , 1, 1, 73, 73, BEAM , 1, 1, 73, 74, BEAM , 1, 1, 74, 74, BEAM , 1, 1, 74, 75, BEAM , 1, 1, 75, 75, BEAM , 1, 1, 75, 76, BEAM , 1, 1, 76, 76, BEAM , 1, 1, 76, 77, BEAM , 1, 1, 77, 77, BEAM , 1, 1, 77, 78, BEAM , 1, 1, 78, 78, BEAM , 1, 1, 78, 79, BEAM , 1, 1, 79, 79, BEAM , 1, 1, 79, 80, BEAM , 1, 1, 80, 80, BEAM , 1, 1, 80, 81, BEAM , 1, 1, 81, 81, BEAM , 1, 1, 81, 82, BEAM , 1, 1, 82, 82, BEAM , 1, 1, 82, 83, BEAM , 1, 1, 83, 83, BEAM , 1, 1, 83, 84, BEAM , 1, 1, 84, 84, BEAM , 1, 1, 84, 85, BEAM , 1, 1, 85, 85, BEAM , 1, 1, 85, 86, BEAM , 1, 1, 86, 86, BEAM , 1, 1, 86, 87, BEAM , 1, 1, 87, 87, BEAM , 1, 1, 87, 88, BEAM , 1, 1, 88, 88, BEAM , 1, 1, 88, 89, BEAM , 1, 1, 89, 89, BEAM , 1, 1, 89, 90, BEAM , 1, 1, 90, 90, BEAM , 1, 1, 90, 91, BEAM , 1, 1, 91, 91, BEAM , 1, 1, 91, 92, BEAM , 1, 1, 92, 92, BEAM , 1, 1, 92, 93, BEAM , 1, 1, 93, 93, BEAM , 1, 1, 93, 94, BEAM , 1, 1, 94, 94, BEAM , 1, 1, 94, 95, BEAM , 1, 1, 95, 95, BEAM , 1, 1, 95, 96, BEAM , 1, 1, 96, 96, BEAM , 1, 1, 96, 97, BEAM , 1, 1, 97, 97, BEAM , 1, 1, 97, 98, BEAM , 1, 1, 98, 98, BEAM , 1, 1, 98, 99, BEAM , 1, 1, 99, 99, BEAM , 1, 1, 99, 100, BEAM , 1, 1, 100, 100, BEAM , 1, 1, 100

52, 0, 0 95, BEAM , 2, 6, 89,
75, BEAM , 1, 2, 31, 85, -4, 0
53, 0, 0 *GROUP : Group
76, BEAM , 1, 2, 32, : NAME, NODE_LIST, ELEM_LIST,
54, 0, 0 PLANE_TYPE
77, BEAM , 1, 2, 73, P1 , 5to8, , 0
74, 0, 0 P2 , 9to12, , 0
78, BEAM , 1, 2, 33, A2 , 13to16, , 0
55, 0, 0 A1 , 1to4, , 0
79, BEAM , 1, 2, 34, *MATERIAL : Material
56, 0, 0 : iMAT, TYPE, MNAME, SPHEAT,
80, BEAM , 1, 2, 35, HEATCO, PLAST, TUNIT, bMASS,
57, 0, 0 DAMPRATIO, [DATA1] ;
81, BEAM , 1, 2, 36, STEEL, CONC, USER
58, 0, 0 : iMAT, TYPE, MNAME, SPHEAT,
82, BEAM , 1, 2, 37, HEATCO, PLAST, TUNIT, bMASS,
59, 0, 0 DAMPRATIO, [DATA2], [DATA2] : SRC
83, BEAM , 1, 2, 38, : [DATA1] : 1, STANDARD,
60, 0, 0 CODE/PRODUCT, DB, USEELAST,
84, BEAM , 1, 2, 39, ELAST
61, 0, 0 : [DATA1] : 2, ELAST, POISN,
85, BEAM , 1, 2, 75, THERMAL, DEN, MASS
76, 0, 0 : [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz,
86, BEAM , 2, 3, 78, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN,
80, 4, 0 MASS : Orthotropic
87, BEAM , 2, 3, 79, : [DATA2] : 1, STANDARD,
81, -4, 0 CODE/PRODUCT, DB, USEELAST,
88, BEAM , 2, 4, 80, ELAST or 2, ELAST, POISN, THERMAL,
82, 4, 0 DEN, MASS
89, BEAM , 2, 4, 81, 1, USER , 상부(SM490) , 0, 0,
83, -4, 0 , C, NO, 0.02, 2, 2.0500e+008, 0.3,
90, BEAM , 2, 5, 82, 1.2000e-005, 0, 0
86, 4, 0 2, CONC , C24(하부) , 0, 0,
91, BEAM , 2, 6, 83, , C, NO, 0.05, 1, KSCE-LSO15(RC),
88, -4, 0 , C24 , NO, 2.5791e+007
92, BEAM , 2, 5, 86, *MATL-COLOR
87, 4, 0 : iMAT, W_R, W_G, W_B, HF_R, HF_G,
93, BEAM , 2, 5, 87, HF_B, HE_R, HE_G, HE_B, bBLEND,
84, 4, 0 FACT
94, BEAM , 2, 6, 88, 1, 255, 0, 0, 0, 255, 0,
89, -4, 0 0, 0, 255, NO, 0.5

2, 255, 0, 0, 0, 255, 0, : 2nd line(STYPE=VALUE)
0, 0, 255, NO, 0.5 : AREA1, ASy1, ASz1, lxx1, lyy1,
*SECTION : Section I z z 1
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 3rd line(STYPE=VALUE)
bWE, SHAPE, [DATA1], [DATA2] : CyP1, CyM1, CzP1, CzM1, QyB1,
: 1st line - DB/USER QzB1, PERL_OUT1, PERL_IN1, Cy1, Cz1
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 4th line(STYPE=VALUE)
bWE, SHAPE, BLT, D1, ..., D8, iCEL : Y11, Y12, Y13, Y14, Z11, Z12,
: 1st line - VALUE Z13, Z14, Zyy1, Zyy2
: AREA, ASy, ASz, lxx, lyy, lzz : 5th line(STYPE=VALUE)
: D21, D22, D23, D24, D25, D26,
: 2nd line D27, D28
: CyP, CyM, CzP, CzM, QyB, QzB, : 6th line(STYPE=VALUE)
PERL_OUT, PERL_IN, Cy, Cz : AREA2, ASy2, ASz2, lxx2, lyy2,
: 3rd line I z z 2
: Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, : 7th line(STYPE=VALUE)
Zyy, Zzz : CyP2, CyM2, CzP2, CzM2, QyB2,
: 4th line QzB2, PERL_OUT2, PERL_IN2, Cy2, Cz2
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 8th line(STYPE=VALUE)
bWE, SHAPE, ELAST, DEN, POIS, POIC, : Y21, Y22, Y23, Y24, Z21, Z22,
SF, THERMAL : 1st line - SRC Z23, Z24, Zyy2, Zzz2
: D1, D2, [SRC] : 9th line(STYPE=VALUE)
: OPT1, OPT2, [JOINT]
: 2nd line
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 2nd line(STYPE=PSC)
bWE, SHAPE, 1, DB, NAME1, NAME2, : ELAST, DEN, POIS, POIC,
D1, D2 : 1st line - COMBINED T H E R M A L
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 2nd
bWE, SHAPE, 2, D11, D12, D13, D14, line(STYPE=PSC-CMPW)
D15, D21, D22, D23, D24 : bSHEARCHK, [SCHK-I],
: iSEC, TYPE, SNAME, [OFFSET2], bSD, [SCHK-I], [WT-I], [WT-I], WI, WJ, bSYM,
bWE, SHAPE, iyVAR, izVAR, STYPE bSIDEHOLE : 3rd line(STYPE=PSC)
: 1st line - TAPERED : bSHEARCHK, bSYM, bHUNCH,
: DB, NAME1, NAME2 [CMPWEB-I], [CMPWEB-I]
: 2nd line(STYPE=DB) : 3rd
: [DIM1], [DIM2] line(STYPE=PSC-CMPW)
: 2nd line(STYPE=USER) : bUSERDEFMESH SIZE,
: D11, D12, D13, D14, D15, D16, MESH SIZE, bUSERINPSTIFF, [STIFF-I],
D17, D18 : [STIFF-I] : 4th
line(STYPE=PSC)
: [SIZE-A]-i

: 5th line(STYPE=PSC) : [SIZE-A]-i
: [SIZE-B]-i : 4th line(STYPE=CMP-CI/CT)
: [SIZE-B]-i
: 6th line(STYPE=PSC) : 5th line(STYPE=CMP-CI/CT)
: [SIZE-C]-i : [SIZE-C]-i
: 7th line(STYPE=PSC) : 6th line(STYPE=CMP-CI/CT)
: [SIZE-D]-i : [SIZE-D]-i
: 8th line(STYPE=PSC) : 7th line(STYPE=CMP-CI/CT)
: [SIZE-A]-j : [SIZE-A]-j
: 9th line(STYPE=PSC) : 8th line(STYPE=CMP-CI/CT)
: [SIZE-B]-j : [SIZE-B]-j
: 10th line(STYPE=PSC) : 9th line(STYPE=CMP-CI/CT)
: [SIZE-C]-j : [SIZE-C]-j
: 11th line(STYPE=PSC) : 10th line(STYPE=CMP-CI/CT)
: [SIZE-D]-j : [SIZE-D]-j
: 12th line(STYPE=PSC)
: GN, CTC, Bc, Tc, Hh, EsEc, : 11th line(STYPE=CMP-CI/CT)
DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S : iSEC, TYPE, SNAME, [OFFSET], bSD,
: 2nd line(STYPE=CMP-B/I) bWE, STYPE1, STYPE2
: SW_i, Hw_i, tw_i, B_i, Bf1_i, : 1st line - CONSTRUCT
tf1_i, B2_i, Bf2_i, tf2_i : SHAPE, ...(same with other type
: 3rd line(STYPE=CMP-B/I) data from shape)
: SW_j, Hw_j, tw_j, B_j, Bf1_j, : Before (STYPE1)
tf1_j, B2_j, Bf2_j, tf2_j : SHAPE, ...(same with other type
: 4th line(STYPE=CMP-B/I) data from shape)
: N1, N2, Hr, Hr2, tr1, tr2 : After (STYPE2)
: iSEC, TYPE, SNAME, [OFFSET], bSD,
: 5th line(STYPE=CMP-B) bWE, SHAPE
: GN, CTC, Bc, Tc, Hh, EgDsb, : 1st line - COMPOSITE-B
DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j : Hw, tw, B1, Bf1, tf1, B2, Bf2, tf2
: 2nd line(STYPE=CMP-CI/CT)
: OPT1, OPT2, [JOINT]
: 3rd line(STYPE=CMP-CI/CT) : 2nd line
: [SHAPE-NUM], [STIFF-SHAPE],
[STIFF-POS] (1~4)

: 3rd line : [SIZE-C]
: SW, GN, CTC, Bc, Tc, Hh, EsEc, :
DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh : 5th line
: 4th line : [SIZE-D]
: iSEC, TYPE, SNAME, [OFFSET], bSD,
bWE, SHAPE : 6th line
: 1st line - COMPOSITE-I : SW, GN, CTC, Bc, Tc, Hh,
: Hw, tw, B1, tf1, B2, tf2 EgDsb, DgdDsb, Pgd, Psb
: 7th line
: 2nd line : iSEC, TYPE, SNAME, [OFFSET], bSD,
: [SHAPE-NUM], [STIFF-SHAPE], bWE, SHAPE
[STIFF-POS] (1~2) : 1st line - PSC
: 3rd line : OPT1, OPT2, [JOINT]
: SW, GN, CTC, Bc, Tc, Hh, EsEc, : 2nd line
DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh : bSHEARCHK, [SCHK], [WT],
: 4th line : WIDTH, bSYM, bSIDEHOLE
: iSEC, TYPE, SNAME, [OFFSET], bSD, : 3rd line
bWE, SHAPE : bUSERDEFMESH SIZE,
: 1st line - COMPOSITE-TUB : MESH SIZE, bUSERINPSTIFF, [STIFF]
: Hw, tw, B1, Bf1, tf1, B2, Bf2, : 4th line
tf2, Bf3, ttp : bWE, [WARPING POINT]-i,
: 2nd line [WARPING POINT]-j
: [SHAPE-NUM], [STIFF-SHAPE], : 5th line
[STIFF-POS] (1~3)
: 3rd line : [SIZE-A]
: SW, GN, CTC, Bc, Tc, Hh, EsEc, :
DsDc, Ps, Pc, TsTc, bMulti, Elong, Esh : 6th line
: 4th line : [SIZE-B]
: iSEC, TYPE, SNAME, [OFFSET], bSD,
bWE, SHAPE : 7th line
: 1st line - : [SIZE-C]
COMPOSITE-CI/CT
: OPT1, OPT2, [JOINT]
: 8th line
: 2nd line : [SIZE-D]
: [SIZE-A]
: 9th line
: [DATA1] : 1, DB, NAME or 2, D1, D2,
D3, D4, D5, D6, D7, D8, D9, D10
: 3rd line : [DATA2] : CCSHAPE or iCEL or iN1,
iN2
: 4th line : [SRC] : 1, DB, NAME1, NAME2 or 2,

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X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
1, COMPOSITE , Steel Box Girder ,
CC, 0, 0, 0, 0, 0, 0, 0, YES, NO, B
2.4, 0.012, 2.6, 0.1, 0.012, 2.6,
0.1, 0.012
0, 0, 0, 0, 0, 0
0
0
0
0
0
5.25, 1, 5.25, 5.25, 0.25, 0.05,
7.68337, 3.13991, 0.3, 0.18, 1.2, NO, .
2, SOD , Cross Beam ,
CT, 0, 0, 0, 0, 0, 0, 0, YES, NO, SOD-I
YES, 0.15, 0.15, 0.15, 0.15, 1.75,
0.012, 0.012, 0.012, 0, YES
0
0
3, DBUSER , COPING 1
CC, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 2,
2.5, 1.0, 0, 0, 0, 0, 0, 0, 0
4, TAPERED , COPING 2
CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO,
SB , 1, 1, USER
2.5, 1.0, 0, 0, 0, 0, 0, 0, 0, 2.5,
3.5, 0, 0, 0, 0, 0, 0
5, DBUSER , PIER 1
CC, 0, 0, 0, 0, 0, 0, 0, YES, NO, SR , 2,
3, 0, 0, 0, 0, 0, 0, 0, 0, 0
6, DBUSER , PIER 2
CC, 0, 0, 0, 0, 0, 0, 0, YES, NO, SR , 2,
3, 0, 0, 0, 0, 0, 0, 0, 0, 0
*SECT-COLOR
: iSEC, W_R, W_G, W_B, HF_R, HF_G,
HF_B, HE_R, HE_G, HE_B, bBLEND,
FACT
1, 255, 0, 0, 0, 255, 0,
0, 0, 255, NO, 0.5
2, 255, 0, 0, 0, 255, 0,
0, 0, 255, NO, 0.5

```

```

: 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, lxx1, lyy1,
I z z 1
: 3rd line(STYPE=VALUE)
:      CyP1, CyM1, CzP1, CzM1, QyB1,
QzB1, PERL_OUT1, PERL_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, lxx2, lyy2,

```

```

[SIZE-B]-i
:
: 10th line(STYPE=PSC)
:
[SIZE-C]-j
:
: 11th line(STYPE=PSC)
:
[SIZE-D]-i
:
: 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, EgdBsb,
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

```

```

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
:      bUSERDEFMESH SIZE,
MESH SIZE,  bUSERINPSTIFF, [STIFF]
: 4th line
:      bWE, [WARPING POINT]-i,
[WARPING    POINT]-j
: 5th line
:      [SIZE-A]
:
:      [SIZE-B]
:
:      [SIZE-C]
:
:      [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, HUSER, iVERT, VUSER
: [OFFSET2] : 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 }
: [JOINT] : 8(1CELL, 2CELL),
13(3CELL), 9(PSCM), 8(PSCH),
9(PSCT), 2(PSCB), 0(nCELL), 2(nCEL2)
: [SIZE-A] : 6(1CELL, 2CELL),
10(3CELL), 10(PSCM), 6(PSCH),
8(PSCT), 10(PSCB), 5(nCELL), 11(nCEL2)
: [SIZE-B] : 6(1CELL, 2CELL),
12(3CELL), 6(PSCM), 6(PSCH),
8(PSCT), 6(PSCB), 8(nCELL), 18(nCEL2)
: [SIZE-C] : 10(1CELL, 2CELL),
13(3CELL), 9(PSCM), 10(PSCH),
7(PSCT), 8(PSCB), 0(nCELL), 11(nCEL2)
: [SIZE-D] : 8(1CELL, 2CELL),
13(3CELL), 6(PSCM), 7(PSCH),
8(PSCT), 5(PSCB), 0(nCELL), 18(nCEL2)
: [STIFF] : AREA, ASy, ASz, lxx, lyy,
lzz
: [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3,
Z3
: [WT] : bAUTO_TOR, TOR,
bAUTO_SHR1, SHR1, bAUTO_SHR2,
SHR2, bAUTO_SHR3, SHR3
: [CMPWEB] : EFD, LRF, A, B, H, T
: [WARPING POINT] : nWarpingCheck,
X1.X2.X3.X4.X5.X6, Y1.Y2.Y3.Y4.Y5.Y6
1, COMPOSITE , Steel Box Girder ,
CC, 0, 0, 0, 0, 0, 0, YES, NO, B
2.4, 0.012, 2.6, 0.1, 0.012, 2.6,
0.1, 0.012
0, 0, 0, 0, 0, 0
0
0
0
0
0
5.25, 1, 5.25, 5.25, 0.25, 0.05,
7.68337, 3.13991, 0.3, 0.18, 1.2, NO, ,
2, SOD , Cross Beam ,

```

```

E2, E3, E4, E5
HMODEL-GBM
: [STEEL] HMODEL, iM, s1y, s2y, s3y,
S1y, S2y, S3y, [TSM]
: HMODEL-TSM
: [STEEL] HMODEL, fy, fu, Es, Esh, Esu
:
HMODEL-PM
: [STEEL] HMODEL, Sig_sy, Es, est
:
HMODEL-JRSM_S
: [TCM] ec1, ec2, ec3, ecu
: iM=0
: [TCM] K1, K2/K1, K3/K1, ecu
: iM=1
: [TSM] e1y, e2y, e3y
: iM=0
: [TSM] K1, K2/K1, K3/K1
: iM=1
C24, CONC, MANDER, 0, YES, 24000,
YES, 0.002, NO, 0.0014, NO, 0.02, 0,
2.44949e+007, 2, 0, 0, 0, NO, 0, NO, 0,
NO, 0, NO, 0, NO, 0, NO, 0, NO, 0, NO,
0, NO, 0, 1, 1, 0, 0, 0, 0, 0, 0,
0, 0, 0, , NO, 0, 0, , 0, 0, 0, 0, 0,
0, NO, 0, NO, NO, 0, NO, 0, NO, 0, NO,
0, NO, 0, NO, NO, NO, 0, TIMEHISTORY
SD300 [KSCE-LSD15(RC)_SD300],
STEEL, PM, 300000, 440000, 200000000,
0.0115, 0.125, TIMEHISTORY
*CONSTRAINT : Supports
: NODE_LIST,
CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
2 4 14 16 84 85, 111111,
*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,
G R O U P
: MULTI LINEAR
1, 1, 2, GEN , 10, NO,
NO, NO, NO, NO, NO, 1e+007, 0, 0, 0,
0, 0, NO, 0.5, 0.5,
2, 3, 4, GEN , 10, NO,
NO, NO, NO, NO, NO, 1e+007, 1e+007,
0, 0, 0, NO, NO, 0.5, 0.5,
3, 5, 6, GEN , 4, NO,
NO, NO, NO, NO, NO, 1e+007, 0, 0, 0,
0, 0, NO, 0.5, 0.5,
4, 7, 8, GEN , 4, NO,
NO, NO, NO, NO, NO, 1e+007, 1e+007,
0, 0, 0, NO, NO, 0.5, 0.5,
5, 9, 10, GEN , -4, NO,
NO, NO, NO, NO, NO, 1e+007, 0,
1e+007, 0, 0, NO, 0.5, 0.5,
6, 11, 12, GEN , -4, NO,
NO, NO, NO, NO, NO, 1e+007, 1e+007,
1e+007, 0, 0, NO, 0.5, 0.5,
7, 13, 14, GEN , -10, NO,
NO, NO, NO, NO, NO, 1e+007, 0, 0, 0,
0, 0, NO, 0.5, 0.5,
8, 15, 16, GEN , -10, NO,
NO, NO, NO, NO, NO, 1e+007, 1e+007,
0, 0, 0, NO, 0.5, 0.5,
9, 71, 1, RIGID, 0, NO,
0.5, 0.5,

```

```

CT, 0, 0, 0, 0, 0, 0, YES, NO, SOD-I
YES, 0.15, 0.15, 0.15, 0.15, 1.75,
0.012, 0.012, 0.012, 0, 0
0
0
3, DBUSER , COPING 1
, CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , 2,
2.5, 10, 0, 0, 0, 0, 0, 0, 0
4, TAPERED , COPING 2
, CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO,
SB , 1, 1, USER
2.5, 10, 0, 0, 0, 0, 0, 0, 2.5,
3.5, 0, 0, 0, 0, 0
5, DBUSER , PIER 1
, CC, 0, 0, 0, 0, 0, 0, YES, NO, SR , 2,
3, 0, 0, 0, 0, 0, 0, 0, 0
6, DBUSER , PIER 2
, CC, 0, 0, 0, 0, 0, 0, YES, NO, SR , 2,
3, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE : Static Load Cases
: LCNAME, LCTYPE, DESC
DL , D ,
*FIBER-MATL : Inelastic Material
Properties
: NAME, TYPE, [CONC]
:
TYPE=CONC
: NAME, TYPE, [STEEL]
:
TYPE=STEEL
: [CONC] HMODEL, FC, Eco, K, Z, Ecu,
PartialFact
: HMODEL=KPM
: [CONC] HMODEL, FC, EPEAK,
P a r t i a l F a c t
: HMODEL=JCSSM
: [CONC] HMODEL, iEQ, Ec, sck, ssy, a,
sbt, Ah, s, d, b, nSTR
: HMODEL=JRSM
: [CONC] HMODEL, Ec, sck, ssy, a, sbt,
Ah, s, d, b, nSTR
:

```

```

HMODEL=JRSMH24
: [CONC] HMODEL, sck, ecc, K, ecu,
eto, etu, et1
: HMODEL=NHCM
: [CONC] HMODEL, iM, scl, sc2, sc3,
e, et1, etu, [TCM]
: HMODEL=TCM
: [CONC] HMODEL, FCR, FTR, ECR,
ETR, EC
: HMODEL=CHINA (GB50010-10)
: [CONC] HMODEL, nConc, bfco', fco',
beco, eco, nEc, Ec, ...
: HMODEL=MANDER
: [CONC] ... nft', ft', et, nSectRebar,
bAcc, Acc, bAe, Ae, ...
: HMODEL=MANDER
: [CONC] ... bke, ke, bfl, fl, bfcc, fcc,
becc, ecc, becyl, ecy, ...
: HMODEL=MANDER
: [CONC] ... nRect, nCirc, bc, wxi, n,
dc, wyj, m, ds, ...
: HMODEL=MANDER
: [CONC] ... nLR, nRNum, sR, RA,
bpcc, pcc, nGR, sG, GA, ...
: HMODEL=MANDER
: [CONC] ... s, s', nGNumX, nGNumY,
GAsx, GAsy, ...
: HMODEL=MANDER
: [CONC] ... bfyh, fyh, bAsx, bAsy, bpx,
px, bpy, py, ...
: HMODEL=MANDER
: [CONC] ... bflx, flx, bfly, fly, bfyh,
fyh, bR, bps, ps
: HMODEL=MANDER
: [STEEL] HMODEL, FY, E, B,
P a r t i a l F a c t
: HMODEL=MPM
: [STEEL] HMODEL, FY, E1, E2/E1,
PartialFact
: HMODEL=BM
: [STEEL] HMODEL, sy, scy, e1, e2, E1,

```

```

10, 70, 3, RIGID, 0, NO,
0.5, 0.5,
11, 24, 5, RIGID, 0, NO,
0.5, 0.5,
12, 77, 7, RIGID, 0, NO,
0.5, 0.5,
13, 6, 78, RIGID, 0, NO,
0.5, 0.5,
14, 78, 8, RIGID, 0, NO,
0.5, 0.5,
15, 73, 9, RIGID, 0, NO,
0.5, 0.5,
16, 74, 11, RIGID, 0, NO,
0.5, 0.5,
17, 10, 79, RIGID, 0, NO,
0.5, 0.5,
18, 79, 12, RIGID, 0, NO,
0.5, 0.5,
19, 75, 13, RIGID, 0, NO,
0.5, 0.5,
20, 76, 15, RIGID, 0, NO,
0.5, 0.5,
*SECTDATA=CHK : Beam/Column
Section Data for Design
: iSEC, TYPE, ENVTYPE
: line 1
: [BEAM-T]-I , [BEAM-T]-M ,
[BEAM-T]-J : line 2(layer1)
:
: ...
: [BEAM-T]-I , [BEAM-T]-M ,
[BEAM-T]-J : line 11(layer10)
: [BEAM-B]-I , [BEAM-B]-M ,
[BEAM-B]-J : line 12(layer1)
:
: ...
: [BEAM-B]-I , [BEAM-B]-M ,
[BEAM-B]-J : line 21(layer10)
: [SUB-BAR]-I, [SUB-BAR]-M,
[SUB-BAR]-J : line 22
: Dc1, [COLM]-P1, [COLM]-P2,
[COLM]-P3 : line 2(layer1)
:
: ...
: Dc5, [COLM]-P1, [COLM]-P2,
[COLM]-P3 : line 6(layer5)
: SBSIZE, SBSPACE, SBNUM, SBSIZE(y),
SBSIZE(z), SBNUM(y), SBNUM(z) : line
7
: [BEAM-T] : Dt, NUM, S1, S2
: [BEAM-B] : Db, NUM, S1, S2
: [SUB-BAR] : NUM, S, DIST, ANGLE,
bTBAR, TBAR, TBAR_S, BUNDLE,
BUNDEL_N, LBAR, LBAR_N, bBUBAR,
BUBAR, BUBAR_N, BUBAR_ANGLE
: [COLM] : NUM, S1, S2
5, COLM, DRY
0.1, 78, D29, , 0, , , 0, ,
0.2, 82, D29, , 0, , , 0, ,
0, 0, , 0, , 0, ,
0, 0, , 0, , 0, ,
0, 0, , 0, , 0, ,
0, 0, , 0, , 0, ,
0, 2, , 2, 2
6, COLM, DRY
0.1, 78, D32, , 0, , , 0, ,
0.2, 82, D32, , 0, , , 0, ,
0, 0, , 0, , 0, ,
0, 0, , 0, , 0, ,
0, 0, , 0, , 0, ,
0, 2, , 2, 2
*LOADTOMASS : Load to Mass
: DIR, bNODAL, bBEAM, bFLOOR,
bPRES, GRAV
: LCNAME1, FACTOR1, LCNAME2,
FACTOR2, ... : from line 1
XYZ, YES, YES, YES, YES, 9.806
DL, 1
*USE-STLD, DL
*SELFWEIGHT : Self Weight
: X, Y, Z, GROUP
0, 0, -1,
*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
: [ADDITIONAL] : bADDITIONAL,
A D D I T I O N A L _ I - E N D ,
A D D I T I O N A L _ J - E N D ,
bADDITIONAL_J-END
10, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
11, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
12, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
13, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
14, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
15, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
16, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
17, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
18, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
19, BEAM , UNILoad, GZ, NO ,

NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
20, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
21, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
22, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
23, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
24, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
25, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
26, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
27, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
28, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
29, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
30, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
31, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
32, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,

33, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
34, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -72.35, 1, -72.35,
0, 0, 0, 0, , NO, 0, 0, NO,
35, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
36, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
37, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
38, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
39, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
40, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
41, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
42, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
43, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
44, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
45, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
46, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,

0, 0, 0, 0, , NO, 0, 0, NO,
47, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
48, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
49, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
50, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
51, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
52, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
53, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
54, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
55, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
56, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
57, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
58, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
59, BEAM , UNILoad, GZ, NO ,
NO, aDir[1], , , 0, -86.93, 1, -86.93,
0, 0, 0, 0, , NO, 0, 0, NO,
: End of data for load case [DL]

*SFUNCTION : Spectrum Function
: FUNC=NAME, iTYPE, iMETHOD,
SCALE/MAX, GRAV, DRATIO, DESC,
RMF : line 1
: SPEC.CODE, [CODE_DATA]
: line 2
: PERIOD1, VALUE1, PERIOD2,
VALUE2, ... :
from line 3
:[CODE_DATA] : NSC, SFI, SC, EQ, TG,
DP, MaxEQ
: CH2001
:[CODE_DATA] : NSC, SFI, SC, EQ, TG,
DP, MaxEQ, nLForce :
CH2010
:[CODE_DATA] : SFI, SC, EQ, TG, DP,
MaxEQ :
CHSH2003
:[CODE_DATA] : DIV, SC, SFI, EQ, TG,
G :
GB50111-2006
:[CODE_DATA] : BT, ZM, ST, SI, SC,
TG, CI, CS, CD, EPA, SMAX, PERIOD :
[JTG/T B02-01-2008
:[CODE_DATA] : iSPE, SParam, TB, TC,
TD, AG, Q, IF, FFX, FPY :
P100-I(2013)
FUNC=KDS(17-10-00:2018), 1, 0, 1,
9.806, 0.05, "KDS(17-10-00:2018):
Z=Zone(0.11),I=1.40,Site=S2", 1.000000
KDS(17-10-00:2018), 0, 1, 1.4, 6, 1.4,
1.446
0.000000, 0.2156,
0.060000, 0.4504340249
0.082629, 0.539,
0.120000, 0.539
0.180000, 0.539,
0.240000, 0.539
0.300000, 0.539,

0.360000, 0.539
0.413143, 0.539,
0.420000, 0.5302
0.480000, 0.463925,
0.540000, 0.4123777777
0.600000, 0.37114,
0.660000, 0.3374
0.720000, 0.3092833333,
0.780000, 0.28549230769
0.840000, 0.2651,
0.900000, 0.24742666667
0.960000, 0.2319625,
1.020000, 0.21831764706
1.080000, 0.20618888889,
1.140000, 0.19533684211
1.200000, 0.18557,
1.260000, 0.1767333333
1.320000, 0.1687,
1.380000, 0.16136521739
1.440000, 0.15464166667,
1.500000, 0.148456
1.560000, 0.14274615385,
1.620000, 0.13745925926
1.680000, 0.13255,
1.740000, 0.12797931034
1.800000, 0.1237133333,
1.860000, 0.11972258065
1.920000, 0.11598125,
1.980000, 0.11246666667
2.040000, 0.10915882353,
2.100000, 0.10604
2.160000, 0.10309444444,
2.220000, 0.10030810811
2.280000, 0.097668421053,
2.340000, 0.095164102564
2.400000, 0.092785,
2.460000, 0.09052195122
2.520000, 0.088366666667,
2.580000, 0.086311627907
2.640000, 0.08435,
2.700000, 0.082475555556

2.760000, 0.080682608696,
2.820000, 0.078965957447
2.880000, 0.077320833333,
2.940000, 0.075742857143
3.000000, 0.074228,
3.060000, 0.071345636294
3.120000, 0.06862795858,
3.180000, 0.066062655749
3.240000, 0.063638545953,
3.300000, 0.061345454545
3.360000, 0.059174107143,
3.420000, 0.057116035703
3.480000, 0.055163495838,
3.540000, 0.053309393852
3.600000, 0.051547222222,
3.660000, 0.049871002419
3.720000, 0.048275234131,
3.780000, 0.046754850088
3.840000, 0.045305175781,
3.900000, 0.043921893491
3.960000, 0.042601010101,
4.020000, 0.041338828247
4.080000, 0.040131920415,
4.140000, 0.03897710565
4.200000, 0.037871428571,
4.260000, 0.036812140448
4.320000, 0.035796682099,
4.380000, 0.034822668418
4.440000, 0.033887874361,
4.500000, 0.032990222222
4.560000, 0.032127770083,
4.620000, 0.031298701299
4.680000, 0.030501314924,
4.740000, 0.029734016984
4.800000, 0.0289953125,
4.860000, 0.028283798201
4.920000, 0.02759815586,
4.980000, 0.026937146175
5.040000, 0.026299603175,
5.100000, 0.025684429066
5.160000, 0.025090589508,

5.220000, 0.024517109261
5.280000, 0.023963068182,
5.340000, 0.023427597526
5.400000, 0.022909876543,
5.460000, 0.022409129332
5.520000, 0.021924621928,
5.580000, 0.021455659614
5.640000, 0.021001584427,
5.700000, 0.020561772853
5.760000, 0.020135633681,
5.820000, 0.019722606016
5.880000, 0.019322157434,
5.940000, 0.018933782267
6.000000, 0.018557
*SPLDCASE : Spectrum Load Cases
: NAME=NAME, DIR, ANGLE, SCALE,
PMFT, bDAMP, bECC, INTERP, DESC,
: line 1
: COMTYPE, bADDSIGN,
iSIGNTYPE, bMODE
: line 2
: FUNC1, FUNC2, FUNC3, ...
: line 3
: bUSE1, dFACTOR1, bUSE2,
dFACTOR2, ..., bUSEn, dFACTORn
: line 4 (bMODE=YES)
: bCDR, [DR-DC]
: line 5
(bDAMP=YES)
: [DR-DC] : iMDTYPE, DALL, iMODE1,
DAMPING1, iMODE2, DAMPING2, ...
: iMDTYPE=1
: : iMDTYPE, iCOEF, bMASSP,
MASSC, bSTIFFP, STIFFC :
iMDTYPE=2, iCOEF=1
: : iMDTYPE, iCOEF, iCALC,
bMASSP, FP1, DR1, bSTIFFP, FP2, DR2
: iMDTYPE=2, iCOEF=2
:
:
iMDTYPE=3

