■ 남천교 대구방향(S1～S3) 상부 input

```
;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2015/12/30
;------------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT     : Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, KCAL, C
*REBAR-MATL-CODE     ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
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*ELEMENT     ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS     ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8      ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
```

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91,	BEAM ,	2,	23,	49,	50,	0,	0
92,	BEAM ,	2,	23,	50,	51,	0,	0
93,	BEAM ,	2,	23,	51,	52,	0,	0
94,	BEAM ,	2,	23,	52,	53,	0,	0
95,	BEAM ,	2,	23,	53,	54,	0,	0
96,	BEAM ,	2,	23,	54,	55,	0,	0
97,	BEAM ,	2,	23,	55,	56,	0,	0
98,	BEAM ,	2,	23,	56,	57,	0,	0
99,	BEAM ,	2,	23,	57,	58,	0,	0
100,	BEAM ,	2,	23,	58,	59,	0,	0
101,	BEAM ,	2,	23,	59,	60,	0,	0
102,	BEAM ,	2,	23,	60,	61,	0,	0
103,	BEAM ,	2,	23,	61,	62,	0,	0
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117,	BEAM ,	2,	23,	71,	72,	0,	0
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138,	BEAM ,	2,	21,	13,	56,	0,	0
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143,	BEAM ,	2,	21,	59,	102,	0,	0
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263,	BEAM ,	2,	23,	229,	230,	0,	0
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267,	BEAM ,	2,	23,	233,	234,	0,	0
268,	BEAM ,	2,	23,	234,	235,	0,	0
269,	BEAM ,	2,	23,	235,	236,	0,	0
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277,	BEAM ,	2,	23,	243,	258,	0,	0
278,	BEAM ,	2,	23,	244,	245,	0,	0
279,	BEAM ,	2,	23,	245,	246,	0,	0
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289,	BEAM ,	2,	22,	170,	254,	0,	0
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291,	BEAM ,	2,	21,	130,	214,	0,	0
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293,	BEAM ,	2,	21,	132,	216,	0,	0
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295,	BEAM ,	2,	21,	135,	219,	0,	0
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302,	BEAM ,	2,	22,	226,	184,	0,	0
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304,	BEAM ,	2,	21,	228,	186,	0,	0
305,	BEAM ,	2,	21,	150,	234,	0,	0
306,	BEAM ,	2,	21,	234,	192,	0,	0
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311,	BEAM ,	2,	21,	158,	242,	0,	0
312,	BEAM ,	2,	21,	242,	200,	0,	0
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314,	BEAM ,	2,	21,	243,	201,	0,	0
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316,	BEAM ,	2,	21,	244,	202,	0,	0
317,	BEAM ,	2,	21,	162,	246,	0,	0
318,	BEAM ,	2,	21,	246,	204,	0,	0
319,	BEAM ,	2,	21,	165,	249,	0,	0
320,	BEAM ,	2,	21,	249,	207,	0,	0
321,	BEAM ,	2,	21,	169,	253,	0,	0
322,	BEAM ,	2,	21,	253,	211,	0,	0
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328,	BEAM ,	2,	23,	261,	71,	0,	0
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330,	BEAM ,	1,	1,	212,	211,	0,	0
331,	BEAM ,	1,	1,	211,	210,	0,	0
332,	BEAM ,	1,	1,	122,	123,	0,	0
333,	BEAM ,	1,	1,	123,	124,	0,	0
334,	BEAM ,	1,	1,	124,	125,	0,	0
335,	BEAM ,	1,	24,	171,	170,	0,	0
336,	BEAM ,	1,	24,	170,	169,	0,	0
337,	BEAM ,	1,	24,	169,	168,	0,	0
338,	BEAM ,	1,	24,	36,	37,	0,	0
339,	BEAM ,	1,	24,	37,	38,	0,	0
340,	BEAM ,	1,	24,	38,	39,	0,	0
341,	BEAM ,	1,	2,	210,	209,	0,	0
342,	BEAM ,	1,	2,	121,	122,	0,	0
343,	BEAM ,	1,	25,	168,	167,	0,	0
344,	BEAM ,	1,	25,	35,	36,	0,	0
345,	BEAM ,	1,	3,	209,	208,	0,	0
346,	BEAM ,	1,	3,	198,	197,	0,	0
347,	BEAM ,	1,	3,	197,	196,	0,	0
348,	BEAM ,	1,	3,	174,	173,	0,	0
349,	BEAM ,	1,	3,	89,	90,	0,	0
350,	BEAM ,	1,	3,	128,	129,	0,	0
351,	BEAM ,	1,	3,	129,	110,	0,	0
352,	BEAM ,	1,	3,	120,	121,	0,	0
353,	BEAM ,	1,	26,	167,	166,	0,	0
354,	BEAM ,	1,	26,	156,	155,	0,	0
355,	BEAM ,	1,	26,	155,	154,	0,	0
356,	BEAM ,	1,	26,	132,	131,	0,	0
357,	BEAM ,	1,	26,	3,	4,	0,	0
358,	BEAM ,	1,	26,	42,	43,	0,	0
359,	BEAM ,	1,	26,	43,	24,	0,	0
360,	BEAM ,	1,	26,	34,	35,	0,	0
361,	BEAM ,	1,	4,	208,	207,	0,	0
362,	BEAM ,	1,	4,	207,	206,	0,	0
363,	BEAM ,	1,	4,	173,	172,	0,	0
364,	BEAM ,	1,	4,	172,	87,	0,	0
365,	BEAM ,	1,	4,	87,	88,	0,	0
366,	BEAM ,	1,	4,	88,	89,	0,	0
367,	BEAM ,	1,	4,	118,	119,	0,	0
368,	BEAM ,	1,	4,	119,	120,	0,	0
369,	BEAM ,	1,	27,	166,	165,	0,	0
370,	BEAM ,	1,	27,	165,	164,	0,	0
371,	BEAM ,	1,	27,	131,	130,	0,	0
372,	BEAM ,	1,	27,	130,	1,	0,	0
373,	BEAM ,	1,	27,	1,	2,	0,	0
374,	BEAM ,	1,	27,	2,	3,	0,	0
375,	BEAM ,	1,	27,	32,	33,	0,	0
376,	BEAM ,	1,	27,	33,	34,	0,	0
377,	BEAM ,	1,	5,	206,	205,	0,	0
378,	BEAM ,	1,	5,	117,	118,	0,	0
379,	BEAM ,	1,	28,	164,	163,	0,	0
380,	BEAM ,	1,	28,	31,	32,	0,	0
381,	BEAM ,	1,	6,	205,	204,	0,	0
382,	BEAM ,	1,	6,	204,	203,	0,	0
383,	BEAM ,	1,	6,	115,	116,	0,	0
384,	BEAM ,	1,	6,	116,	117,	0,	0
385,	BEAM ,	1,	29,	163,	162,	0,	0
386,	BEAM ,	1,	29,	162,	161,	0,	0
387,	BEAM ,	1,	29,	29,	30,	0,	0
388,	BEAM ,	1,	29,	30,	31,	0,	0
389,	BEAM ,	1,	7,	203,	202,	0,	0
390,	BEAM ,	1,	7,	202,	257,	0,	0
391,	BEAM ,	1,	7,	257,	201,	0,	0
392,	BEAM ,	1,	7,	201,	200,	0,	0
393,	BEAM ,	1,	7,	200,	199,	0,	0
394,	BEAM ,	1,	7,	111,	112,	0,	0
395,	BEAM ,	1,	7,	112,	113,	0,	0
396,	BEAM ,	1,	7,	113,	260,	0,	0
397,	BEAM ,	1,	7,	260,	114,	0,	0
398,	BEAM ,	1,	7,	114,	115,	0,	0
399,	BEAM ,	1,	30,	161,	160,	0,	0
400,	BEAM ,	1,	30,	160,	256,	0,	0
401,	BEAM ,	1,	30,	256,	159,	0,	0
402,	BEAM ,	1,	30,	159,	158,	0,	0
403,	BEAM ,	1,	30,	158,	157,	0,	0
404,	BEAM ,	1,	30,	25,	26,	0,	0
405,	BEAM ,	1,	30,	26,	27,	0,	0
406,	BEAM ,	1,	30,	27,	259,	0,	0
407,	BEAM ,	1,	30,	259,	28,	0,	0
408,	BEAM ,	1,	30,	28,	29,	0,	0
409,	BEAM ,	1,	8,	199,	198,	0,	0
410,	BEAM ,	1,	8,	110,	111,	0,	0
411,	BEAM ,	1,	31,	157,	156,	0,	0
412,	BEAM ,	1,	31,	24,	25,	0,	0
413,	BEAM ,	1,	9,	196,	195,	0,	0
414,	BEAM ,	1,	9,	175,	174,	0,	0
415,	BEAM ,	1,	9,	90,	91,	0,	0
416,	BEAM ,	1,	9,	127,	128,	0,	0
417,	BEAM ,	1,	32,	154,	153,	0,	0
418,	BEAM ,	1,	32,	133,	132,	0,	0
419,	BEAM ,	1,	32,	4,	5,	0,	0
420,	BEAM ,	1,	32,	41,	42,	0,	0
421,	BEAM ,	1,	10,	195,	194,	0,	0
422,	BEAM ,	1,	10,	126,	127,	0,	0
423,	BEAM ,	1,	33,	153,	152,	0,	0
424,	BEAM ,	1,	33,	40,	41,	0,	0
425,	BEAM ,	1,	11,	194,	193,	0,	0
426,	BEAM ,	1,	11,	193,	192,	0,	0
427,	BEAM ,	1,	11,	192,	191,	0,	0
428,	BEAM ,	1,	11,	178,	177,	0,	0
429,	BEAM ,	1,	11,	177,	176,	0,	0
430,	BEAM ,	1,	11,	92,	93,	0,	0
431,	BEAM ,	1,	11,	93,	94,	0,	0
432,	BEAM ,	1,	11,	107,	108,	0,	0
433,	BEAM ,	1,	11,	108,	109,	0,	0
434,	BEAM ,	1,	11,	109,	126,	0,	0
435,	BEAM ,	1,	34,	152,	151,	0,	0
436,	BEAM ,	1,	34,	151,	150,	0,	0
437,	BEAM ,	1,	34,	150,	149,	0,	0
438,	BEAM ,	1,	34,	136,	135,	0,	0
439,	BEAM ,	1,	34,	135,	134,	0,	0
440,	BEAM ,	1,	34,	6,	7,	0,	0
441,	BEAM ,	1,	34,	7,	8,	0,	0
442,	BEAM ,	1,	34,	21,	22,	0,	0
443,	BEAM ,	1,	34,	22,	23,	0,	0
444,	BEAM ,	1,	34,	23,	40,	0,	0
447,	BEAM ,	1,	12,	191,	190,	0,	0
448,	BEAM ,	1,	12,	106,	107,	0,	0
449,	BEAM ,	1,	35,	149,	148,	0,	0
450,	BEAM ,	1,	35,	20,	21,	0,	0
451,	BEAM ,	1,	13,	190,	189,	0,	0
452,	BEAM ,	1,	13,	180,	179,	0,	0
453,	BEAM ,	1,	13,	95,	96,	0,	0
454,	BEAM ,	1,	13,	105,	106,	0,	0
455,	BEAM ,	1,	36,	148,	147,	0,	0
456,	BEAM ,	1,	36,	138,	137,	0,	0
457,	BEAM ,	1,	36,	9,	10,	0,	0
458,	BEAM ,	1,	36,	19,	20,	0,	0
459,	BEAM ,	1,	14,	189,	188,	0,	0
460,	BEAM ,	1,	14,	181,	180,	0,	0
461,	BEAM ,	1,	14,	96,	97,	0,	0
462,	BEAM ,	1,	14,	104,	105,	0,	0
463,	BEAM ,	1,	37,	147,	146,	0,	0
464,	BEAM ,	1,	37,	139,	138,	0,	0
465,	BEAM ,	1,	37,	10,	11,	0,	0
466,	BEAM ,	1,	37,	18,	19,	0,	0
467,	BEAM ,	1,	15,	188,	187,	0,	0

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    468, BEAM  ,    1,   15,  103,  104,    0,    0
    469, BEAM  ,    1,   38,  146,  145,    0,    0
    470, BEAM  ,    1,   38,   17,   18,    0,    0
    471, BEAM  ,    1,   16,  187,  186,    0,    0
    472, BEAM  ,    1,   16,  186,  185,    0,    0
    473, BEAM  ,    1,   16,  101,  102,    0,    0
    474, BEAM  ,    1,   16,  102,  103,    0,    0
    475, BEAM  ,    1,   39,  145,  144,    0,    0
    476, BEAM  ,    1,   39,  144,  143,    0,    0
    477, BEAM  ,    1,   39,   15,   16,    0,    0
    478, BEAM  ,    1,   39,   16,   17,    0,    0
    479, BEAM  ,    1,   17,  185,  184,    0,    0
    480, BEAM  ,    1,   17,  184,  183,    0,    0
    481, BEAM  ,    1,   17,  183,  182,    0,    0
    482, BEAM  ,    1,   17,   98,   99,    0,    0
    483, BEAM  ,    1,   17,   99,  100,    0,    0
    484, BEAM  ,    1,   17,  100,  101,    0,    0
    485, BEAM  ,    1,   40,  143,  142,    0,    0
    486, BEAM  ,    1,   40,  142,  141,    0,    0
    487, BEAM  ,    1,   40,  141,  140,    0,    0
    488, BEAM  ,    1,   40,   12,   13,    0,    0
    489, BEAM  ,    1,   40,   13,   14,    0,    0
    490, BEAM  ,    1,   40,   14,   15,    0,    0
    491, BEAM  ,    1,   18,  182,  181,    0,    0
    492, BEAM  ,    1,   18,   97,   98,    0,    0
    493, BEAM  ,    1,   41,  140,  139,    0,    0
    494, BEAM  ,    1,   41,   11,   12,    0,    0
    495, BEAM  ,    1,   19,  179,  178,    0,    0
    496, BEAM  ,    1,   19,   94,   95,    0,    0
    497, BEAM  ,    1,   42,  137,  136,    0,    0
    498, BEAM  ,    1,   42,    8,    9,    0,    0
    499, BEAM  ,    1,   20,  176,  175,    0,    0
    500, BEAM  ,    1,   20,   91,   92,    0,    0
    501, BEAM  ,    1,   43,  134,  133,    0,    0
    502, BEAM  ,    1,   43,    5,    6,    0,    0
*MATERIAL     ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS   ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
    1, STEEL, SM490              , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),              , SM490
    2, STEEL, SM400              , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),              , SM400
*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
*SECTION     ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                    D1,    D2,    [SRC]                       ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2         ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE                ; 1st 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, 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, SHAPE                                     ; 1st line - COMPOSITE-SB
;                Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                             ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2                   ; 3rd line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh         ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                     ; 1st line - COMPOSITE-SI
;                Hw, tw, B, tf1, B2, tf2                                       ; 2nd line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh         ; 3rd line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                     ; 1st line - PSC
;                                    OPT1,    OPT2,    [JOINT]                 ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                     ; 3rd line
;      bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                      ; 4th line
;                                    [SIZE-A]                                  ; 5th line
;                                    [SIZE-B]                                  ; 6th line
;                                    [SIZE-C]                                  ; 7th line
;                                    [SIZE-D]                                  ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    1, COMPOSITE , G1-1              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    2, COMPOSITE , G1-2              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    3, COMPOSITE , G1-3              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    4, COMPOSITE , G1-4              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    5, COMPOSITE , G1-5              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
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0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
6, COMPOSITE , G1-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
7, COMPOSITE , G1-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
8, COMPOSITE , G1-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
9, COMPOSITE , G1-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
10, COMPOSITE , G1-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, COMPOSITE , G1-18 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
19, COMPOSITE , G1-19 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
20, COMPOSITE , G1-20 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
21, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
22, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
23, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
24, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
31, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,

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0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-9                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-10               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-11               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-12               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-13               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-14               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-15               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G2-16               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-17               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G2-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   42, COMPOSITE , G2-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   43, COMPOSITE , G2-20               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R,
HE_G, HE_B, bBLEND, FACT
   1, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   2, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   3, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   4, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   5, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   6, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   7, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   8, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   9, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  10, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  11, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  12, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  13, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  14, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  15, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  16, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  17, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  18, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  19, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  20, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  21, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  22, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  23, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  24, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  25, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  26, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  27, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  28, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  29, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  30, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  31, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  32, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  33, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  34, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  35, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  36, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  37, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  38, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  39, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  40, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  41, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  42, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  43, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
*COMP-GEN-SECT-PSC-DESIGN      ; Composite Section
for PSC Design
; ELEM, (Z1, Z2, Z3, t1, t2, t3, TotT)-I, (Z1, Z2, Z3, t1,
t2, t3, TotT)-J
   1, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   2, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   3, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   4, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   5, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   6, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   7, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   8, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   9, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  10, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  11, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  12, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  13, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  14, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  15, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  16, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  17, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  18, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  19, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  20, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  24, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  25, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  26, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  27, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  28, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  29, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  30, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  31, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  32, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  33, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  34, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  35, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  36, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  37, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  38, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  39, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  40, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  41, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  42, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  43, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                        ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                    D1, D2, [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2          ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE                  ; 1st 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, 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, SHAPE
                    ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
                    ; 2nd line
;          N1, N2, Hr, Hr2, tr1, tr2
                    ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE
                    ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2
                    ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE
                    ; 1st line - PSC
;                    OPT1, OPT2, [JOINT]
                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                    [SIZE-A]
                    ; 5th line
;                    [SIZE-B]
                    ; 6th line
;                    [SIZE-C]
                    ; 7th line
;                    [SIZE-D]
                    ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]  : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]  : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
   1, COMPOSITE , G1-1          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   2, COMPOSITE , G1-2          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   3, COMPOSITE , G1-3          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   4, COMPOSITE , G1-4          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   5, COMPOSITE , G1-5          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   6, COMPOSITE , G1-6          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   7, COMPOSITE , G1-7          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   8, COMPOSITE , G1-8          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   9, COMPOSITE , G1-9          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   10, COMPOSITE , G1-10          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
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12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, COMPOSITE , G1-18 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
19, COMPOSITE , G1-19 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
20, COMPOSITE , G1-20 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
21, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
22, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
23, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
24, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
31, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
32, COMPOSITE , G2-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
33, COMPOSITE , G2-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
34, COMPOSITE , G2-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
35, COMPOSITE , G2-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
36, COMPOSITE , G2-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,

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0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-14              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-15              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G2-16              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-17              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G2-18              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   42, COMPOSITE , G2-19              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   43, COMPOSITE , G2-20              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   자중 , D ,
   슬래브 하중, D ,
   "포장, 방호벽 하중", D ,
   단위모멘트, USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   142, 111000,
   184, 101000,
   14 38 170, 011000,
   100 124 212, 001000,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                ; TYPE=ELEMENT
   128, ELEMENT, 0, 1.3,
   129, ELEMENT, 1.3, 0,
   130, ELEMENT, 0, 1.3,
   131, ELEMENT, 1.3, 0,
   132, ELEMENT, 0, 1.3,
   133, ELEMENT, 1.3, 0,
   134, ELEMENT, 0, 1.3,
   135, ELEMENT, 1.3, 0,
   136, ELEMENT, 0, 1.3,
   137, ELEMENT, 1.3, 0,
   138, ELEMENT, 0, 1.3,
   139, ELEMENT, 1.3, 0,
   140, ELEMENT, 0, 1.3,
   141, ELEMENT, 1.3, 0,
   142, ELEMENT, 0, 1.3,
   143, ELEMENT, 1.3, 0,
   144, ELEMENT, 0, 1.3,
   145, ELEMENT, 1.3, 0,
   146, ELEMENT, 0, 1.3,
   147, ELEMENT, 1.3, 0,
   148, ELEMENT, 0, 1.3,
   149, ELEMENT, 1.3, 0,
   150, ELEMENT, 0, 1.3,
   151, ELEMENT, 1.3, 0,
   152, ELEMENT, 0, 1.3,
   153, ELEMENT, 1.3, 0,
   154, ELEMENT, 0, 1.3,
   155, ELEMENT, 1.3, 0,
   156, ELEMENT, 0, 1.3,
   157, ELEMENT, 1.3, 0,
   158, ELEMENT, 0, 1.3,
   159, ELEMENT, 1.3, 0,
   160, ELEMENT, 0, 1.3,
   161, ELEMENT, 1.3, 0,
   289, ELEMENT, 0, 1.3,
   290, ELEMENT, 1.3, 0,
   291, ELEMENT, 0, 1.3,
   292, ELEMENT, 1.3, 0,
   293, ELEMENT, 0, 1.3,
   294, ELEMENT, 1.3, 0,
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   298, ELEMENT, 1.3, 0,
   299, ELEMENT, 0, 1.3,
   300, ELEMENT, 1.3, 0,
   301, ELEMENT, 0, 1.3,
   302, ELEMENT, 1.3, 0,
   303, ELEMENT, 0, 1.3,
   304, ELEMENT, 1.3, 0,
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   306, ELEMENT, 1.3, 0,
   307, ELEMENT, 0, 1.3,
   308, ELEMENT, 1.3, 0,
   309, ELEMENT, 0, 1.3,
   310, ELEMENT, 1.3, 0,
   311, ELEMENT, 0, 1.3,
   312, ELEMENT, 1.3, 0,
   313, ELEMENT, 0, 1.3,
   314, ELEMENT, 1.3, 0,
   315, ELEMENT, 0, 1.3,
   316, ELEMENT, 1.3, 0,
   317, ELEMENT, 0, 1.3,
   318, ELEMENT, 1.3, 0,
   319, ELEMENT, 0, 1.3,
   320, ELEMENT, 1.3, 0,
   321, ELEMENT, 0, 1.3,
   322, ELEMENT, 1.3, 0,
*USE-STLD, 자중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
;    End    of    data    for    load    case    [자중]
-------------------------
*USE-STLD, 슬래브 하중
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
   329, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   329, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   330, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   330, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   331, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   331, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   332, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   332, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   333, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   333, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   334, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   334, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   335, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   335, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   336, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   336, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   337, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   337, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   338, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   338, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   339, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   339, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   340, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   340, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   341, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   341, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   342, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   342, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   343, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   343, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   344, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   344, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   345, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   345, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   346, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   346, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   347, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   347, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   348, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   348, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   349, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   349, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   350, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   350, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   351, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   351, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   352, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   352, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   353, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   353, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
```

354, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
354, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
355, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
355, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
356, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
356, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
357, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
357, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
358, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
358, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
359, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
359, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
360, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
360, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
361, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
361, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
362, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
362, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
363, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
363, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
364, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
364, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
365, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
365, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
366, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
366, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
367, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
367, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
368, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
368, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
369, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
369, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
370, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
370, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
371, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
371, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
372, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
372, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
373, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
373, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
374, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
374, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
375, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
375, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
376, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
376, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
377, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
377, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
378, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
378, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
379, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
379, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
380, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
380, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
381, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
381, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
382, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
382, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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383, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
383, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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384, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
384, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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385, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
385, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
386, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
386, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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387, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
387, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
390, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
391, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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392, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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393, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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396, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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397, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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399, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
403, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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406, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
410, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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448, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
448, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
449, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
449, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
450, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
450, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
451, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
451, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
452, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
452, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
453, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
453, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
454, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
454, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
455, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
455, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
456, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
456, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
457, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
457, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
458, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
458, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
459, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
459, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
460, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
460, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
461, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
461, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
462, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
462, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
463, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
463, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
464, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
464, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
465, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
465, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
466, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
466, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
467, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
467, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
468, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
468, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
469, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
469, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
470, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
470, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
471, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
471, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
472, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
472, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
473, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
473, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
474, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
474, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
475, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
475, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
476, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
476, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
477, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
477, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
478, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
478, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
479, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
479, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
480, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
480, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
481, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
481, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
482, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
482, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
483, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
483, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
484, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
484, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
485, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
485, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
486, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
486, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
487, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
487, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
488, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
488, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
489, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
489, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
490, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
490, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
491, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
491, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
492, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
492, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
493, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
493, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
494, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
494, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
495, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
495, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
496, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
496, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
497, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
497, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
498, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
498, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
499, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
499, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
500, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
500, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
501, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,

501, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
502, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
502, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [슬래브 하중]
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*USE-STLD, "포장, 방호벽 하중"
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
329, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
329, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
329, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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330, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
330, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
330, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
331, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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331, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
331, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
332, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
332, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
337, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   478, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   478, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   478, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   479, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   479, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   479, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   480, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   480, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   480, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   481, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   481, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   482, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   483, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   483, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   483, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   484, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   484, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   485, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   485, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   485, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   486, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   487, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   488, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   489, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   490, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   490, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   491, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   491, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   491, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   492, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   492, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   492, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   494, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   495, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   501, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   502, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [포장, 방호벽 하중]
--------------------------
*USE-STLD, 단위모멘트
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  38, 0, 0, 0, 0, -1, 0,
 124, 0, 0, 0, 0, -1, 0,
 170, 0, 0, 0, 0, 1, 0,
 212, 0, 0, 0, 0, 1, 0,
; End of data for load case [단위모멘트]
--------------------------
*MVLDCODE    ; Moving Load Code
; CODE=CODE
   CODE=KOREA
*LINELANE    ; Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING,
LW, WS, bLANEOPT ; line 1
;           iELEM1, ECC1, FACT1, bSPAN1, ECCVL...
          ; from line 2
   NAME=L1, LANE, , 0, 0, BOTH, 3, 1.8, NO
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0.157895, NO, 0
          331, -0.395, 0.157895, NO, 0,    341, -0.395,
0.157895, NO, 0
          345, -0.395, 0.157895, NO, 0,    361, -0.395,
0.157895, NO, 0
          362, -0.395, 0.157895, NO, 0,    377, -0.395,
0.157895, NO, 0
          381, -0.395, 0.157895, NO, 0,    382, -0.395,
0.157895, NO, 0
          389, -0.395, 0.157895, NO, 0,    390, -0.395,
0.157895, NO, 0
          391, -0.395, 0.157895, NO, 0,    392, -0.395,
0.157895, NO, 0
          393, -0.395, 0.157895, NO, 0,    409, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
          413, -0.395, 0.157895, NO, 0,    421, -0.395,
0.157895, NO, 0
          425, -0.395, 0.157895, NO, 0,    426, -0.395,
0.157895, NO, 0
          427, -0.395, 0.157895, NO, 0,    447, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
          472, -0.395, 0.157895, NO, 0,    479, -0.395,
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0.157895, NO, 0
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0.157895, NO, 0
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          499, -0.395, 0.157895, NO, 0,    414, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
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          350, -0.395, 0.157895, NO, 0,    351, -0.395,
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0.157895, NO, 0
          333, -0.395, 0.157895, NO, 0,    334, -0.395,
0.157895, NO, 0
   NAME=L2, LANE, , 0, 0, BOTH, 3, 1.8, NO
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-0.1385, 0.157895, NO, 0
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-0.1385, 0.157895, NO, 0
          284, -0.1385, 0.157895, NO, 0,    283,
-0.1385, 0.157895, NO, 0
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122, -0.1385, 0.157895, NO, 0, 123, -0.1385, 0.157895, NO, 0
124, -0.1385, 0.157895, NO, 0, 125, -0.1385, 0.157895, NO, 0
126, -0.1385, 0.157895, NO, 0, 127, -0.1385, 0.157895, NO, 0
NAME=L3, LANE, , 0, 0, BOTH, 3, 1.8, NO
335, -1.695, 0.157895, YES, 0, 336, -1.695, 0.157895, NO, 0
337, -1.695, 0.157895, NO, 0, 343, -1.695, 0.157895, NO, 0
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493, -1.695, 0.157895, NO, 0, 464, -1.695, 0.157895, NO, 0
456, -1.695, 0.157895, NO, 0, 497, -1.695, 0.157895, NO, 0
438, -1.695, 0.157895, NO, 0, 439, -1.695, 0.157895, NO, 0
501, -1.695, 0.157895, NO, 0, 418, -1.695, 0.157895, NO, 0
356, -1.695, 0.157895, NO, 0, 371, -1.695, 0.157895, NO, 0
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374, -1.695, 0.157895, NO, 0, 357, -1.695, 0.157895, NO, 0
419, -1.695, 0.157895, NO, 0, 502, -1.695, 0.157895, NO, 0
440, -1.695, 0.157895, NO, 0, 441, -1.695, 0.157895, NO, 0
498, -1.695, 0.157895, NO, 0, 457, -1.695, 0.157895, NO, 0
465, -1.695, 0.157895, NO, 0, 494, -1.695, 0.157895, NO, 0
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466, -1.695, 0.157895, NO, 0, 458, -1.695, 0.157895, NO, 0
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407, -1.695, 0.157895, NO, 0, 408, -1.695, 0.157895, NO, 0
387, -1.695, 0.157895, NO, 0, 388, -1.695, 0.157895, NO, 0
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376, -1.695, 0.157895, NO, 0, 360, -1.695, 0.157895, NO, 0
344, -1.695, 0.157895, NO, 0, 338, -1.695, 0.157895, NO, 0
339, -1.695, 0.157895, NO, 0, 340, -1.695, 0.157895, NO, 0
*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 ; HA, HA & HB, HA & HB(Auto)
; 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] : nLT, 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, ALP, TPSY, W, BET, 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, bDF, 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, s1_UDL ; 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,
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;                                   bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT            ; standard (N11)
; NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC,
dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; standard (SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; 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, s1_UDL            ; user (Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC,
dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; user (Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; 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



;                                   bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT ; user (Type 5)
; NAME=NAME, 2, iTYPE, W, D, nDYNAFAC, dDYNAFAC,
bFATI, nLOADFAC, dLOADFAC ; user (Type 6)
; NAME=NAME, 2, iTYPE, P, W, bFATI, nLOADFAC,
dLOADFAC                            ; user (Type 7)
; if Moving Load Code is KSCE-LSD15
; NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC,
CODE                                ; standard
; NAME=NAME, 2, 8, L1, W1, W2, EXP
                                    ; user: line 1 (Type 1)
; NAME=NAME, 2, 1, W1, W2, D1, D2
                                    ; user: line 1 (Type 2)
; NAME=NAME, 2, 6, LOADNUM, DIST, W, L
                                    ; user: line 1 (Type 3)
;                   LOAD1, DIST1, LOAD2, DIST2, ...
                                    ; user: from line 2
; if Moving Load Code is AASHTO LRFD, CANADA and
Load Type is Permit Truck
; NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR
                                    ; user(Permit Truck)
;       AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2,
D2, ..., Pn, Dn                     ; user(from line 2)
;                                                       ...

;       AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2,
D2, ..., Pn, Dn
;           AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2,
SPACING2, bVS2 ...                  ; line 2+AXLE-TYPE-NUM
; if Moving Load Code is not one of those specified
above.
; NAME=NAME, 1, TYPE-NAME, DLA, CODE
                                    ; standard
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2),
PLV(D2), NDIST                      ; user: line 1
;                   LOAD1, DIST1, LOAD2, DIST2, ...
                                    ; user: from line 2
  NAME=DB-24, 1, DB-24, 0, KS-RB
  NAME=DL-24, 1, DL-24, 0, KS-RB
*MVLDCASE   ; Moving Load Cases
; NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3,
SCALE4, SCALE5, SCALE6, COMB, DESC, LCOM, SERIAL
 ; 1st line
;           nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1,
3LFACTOR2, 3LFACTOR3, 3LFACTOR4                 ;
2st line
;       TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11,
LANE12, ...                         ; 3nd line
;                                                       ...
                                    ; ...
;       TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1,
LANEn2, ...                         ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN,
SCALE, DESC                         ;
Permit
  NAME=활하중, NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 1
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DB-24, 1, 1, 3, L1, L2, L3
        VL, DL-24, 1, 1, 3, L1, L2, L3
  NAME=활하중(BD), NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 2
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DB-24, 1, 1, 3, L1, L2, L3
  NAME=활하중(DL), NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 3
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DL-24, 1, 1, 3, L1, L2, L3
*SM-GROUP   ; Settlement Group
; GRNAME, DISPLACEMENT, NODE_LIST
  A1, -0.01, 170 212
  P1, -0.01, 142 184
  P2, -0.01, 14 100
  P3, -0.01, 38 124
*SMLDCASE   ; Settlement Load Cases
; NAME=NAME, iSMIN, iSMAX, SCALE, DESC ; line 1
;       GRNAME1, GRNAME2, ...         ; from line 2
  NAME=지점침하, 1, 3, 1,
        A1, P1, P2, P3
*LOADCOMB   ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE   ; line 1
;                   ANAL1, LCNAME1, FACT1, ...
                    ; from line 2
  NAME=합성전, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 자중, 1, ST, 슬래브 하중, 1
  NAME=합성후, GEN, ACTIVE, 0, 0, , 0, 0
        ST, "포장, 방호벽 하중", 1
  NAME=고정하중, GEN, ACTIVE, 0, 0, , 0, 0
        CB, 합성전, 1, CB, 합성후, 1
*LC-COLOR   ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN),
iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)
 ST, 자중, 255, 87, 87, 192, 128, 0, 160, 192, 255
 ST, 슬래브 하중, 0, 128, 255, 163, 255, 160, 85, 0, 192
 ST, "포장, 방호벽 하중", 0, 192, 192, 0, 128, 192, 255,
128, 0
 ST, 단위모멘트, 93, 255, 87, 160, 192, 255, 148, 87,
255
 MV, 활하중, 0, 192, 128, 0, 128, 192, 0, 192, 192
 CB, 합성전, 255, 0, 128, 255, 192, 87, 255, 255, 87
 CB, 합성후, 0, 192, 128, 85, 0, 192, 255, 192, 87
 SM, 지점침하, 0, 128, 57, 192, 128, 0, 192, 72, 0
 MV, 활하중(BD), 255, 0, 128, 146, 0, 255, 0, 192, 192
 MV, 활하중(DL), 212, 160, 255, 192, 192, 192, 255, 192,
87
 CB, 고정하중, 255, 192, 87, 0, 157, 192, 255, 87, 87
*DGN-MATL   ; Modify Steel(Concrete) Material
;       iMAT,       TYPE,       MNAME,       [DATA1]
                    ; STEEL
; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV,
SHORT, LONG ; CONC
; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]
                    ; SRC
;       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
; [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1,
FY2, FY3, FY4
;                   FY5, FY6, AFT, AFT2, AFT3, FY, AFV,
AFV2, AFV3
; [DATA4] : 1, DB, CODE, NAME or 2, FC
; [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5,
AL6, AL7, AL8, AL9, AL10
;                   MIN1, MIN2, MIN3
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
    1, STEEL, SM490                 , 1, KS10-Civil(S),
      ,SM490          , 1, KS01-Civil(RC),            ,
          , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,
    2, STEEL, SM400                 , 1, KS10-Civil(S),
      ,SM400          , 1, KS01-Civil(RC),            ,
          , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,
*SECTION MANAGER-GROUP & PART       ; Section
Manager - Group & Part
;       SECT        =       NO,         bSAMEJ
                    ; line 1
;       GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE
                    ; line 2
; ...............................................   ;

;               LOOP UTIL (GRPDISIZE, GRPDJSIZE)
                    ;
;               GROUPID, GROUPNAME, GROUPTYPE
                    ; line n
; ...............................................   ;

;               LOOP UTIL (PARTISIZE, PARTJSIZE)
                    ;
;       PARTTYPE, GROUPID, PARTNAME, PARTSHAPE,
bSTIFFENER                          ; line n
;                   LINESIZE, LINEINDEX[i].....
                    ; line n
; ...............................................   ;

  SECT=1, YES
 0, 0, 0, 0
  SECT=2, YES
 0, 0, 0, 0
  SECT=3, YES
 0, 0, 0, 0
  SECT=4, YES
 0, 0, 0, 0
  SECT=5, YES
 0, 0, 0, 0
  SECT=6, YES
 0, 0, 0, 0
  SECT=7, YES
 0, 0, 0, 0
  SECT=8, YES
 0, 0, 0, 0
  SECT=9, YES
 0, 0, 0, 0
  SECT=10, YES
 0, 0, 0, 0
  SECT=11, YES
 0, 0, 0, 0
  SECT=12, YES
 0, 0, 0, 0
  SECT=13, YES
 0, 0, 0, 0
  SECT=14, YES
 0, 0, 0, 0
  SECT=15, YES
 0, 0, 0, 0
  SECT=16, YES
 0, 0, 0, 0
  SECT=17, YES
 0, 0, 0, 0
  SECT=18, YES
 0, 0, 0, 0
  SECT=19, YES
 0, 0, 0, 0
  SECT=20, YES
 0, 0, 0, 0
  SECT=24, YES
 0, 0, 0, 0
  SECT=25, YES
 0, 0, 0, 0
  SECT=26, YES
 0, 0, 0, 0
  SECT=27, YES
 0, 0, 0, 0
  SECT=28, YES
 0, 0, 0, 0
  SECT=29, YES
 0, 0, 0, 0
  SECT=30, YES
 0, 0, 0, 0
  SECT=31, YES
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  SECT=32, YES
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  SECT=33, YES
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  SECT=34, YES
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  SECT=35, YES
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  SECT=36, YES
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  SECT=37, YES
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  SECT=38, YES
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  SECT=39, YES
 0, 0, 0, 0
  SECT=40, YES
 0, 0, 0, 0
  SECT=41, YES
 0, 0, 0, 0
  SECT=42, YES
 0, 0, 0, 0
  SECT=43, YES
```

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 0, 0, 0, 0
*SECTION MANAGER-STIFFENER      ; Section Manager -
Stiffener
;          SECT          =          NO,          bSAMEJ
                          ; line 1
;                                STFNISIZE,    STFNJSIZE
                          ; line 2
; ..................................................................   ;

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;           TYPE, Z, STANDREF, POSLINE, STANDREFL,
NUM, CTC                          ; line n
;                         STIFFTYPE,   dSIZE(0   ~   20)
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;                            LINESIZE,    LINEINDEX[i].....
                        ; line n
; ..................................................................   ;

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■ 남천교 대구방향(S4~S7) 상부 input

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;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;------------------------------------------------------------------------------
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   8.4.5
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; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
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; 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
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132, BEAM  ,  2, 20,  80,  81,  0,  0
133, BEAM  ,  2, 20,  81,  82,  0,  0
134, BEAM  ,  2, 20,  82,  83,  0,  0
135, BEAM  ,  2, 20,  83,  84,  0,  0
136, BEAM  ,  2, 20,  84,  85,  0,  0
137, BEAM  ,  2, 20,  85,  86,  0,  0
138, BEAM  ,  2, 20,  86, 297,  0,  0
139, BEAM  ,  2, 20,  87,  88,  0,  0
140, BEAM  ,  2, 20,  88,  89,  0,  0
141, BEAM  ,  2, 20,  89,  90,  0,  0
142, BEAM  ,  2, 20,  90,  91,  0,  0
143, BEAM  ,  2, 20,  91,  92,  0,  0
144, BEAM  ,  2, 20,  92,  93,  0,  0
145, BEAM  ,  2, 20,  93,  94,  0,  0
146, BEAM  ,  2, 20,  94,  95,  0,  0
147, BEAM  ,  2, 20,  95,  96,  0,  0
148, BEAM  ,  2, 19,  47,  95,  0,  0
149, BEAM  ,  2, 19,  95, 143,  0,  0
150, BEAM  ,  2, 19,  22,  70,  0,  0
151, BEAM  ,  2, 19,  70, 118,  0,  0
152, BEAM  ,  2, 19,   1,  49,  0,  0
153, BEAM  ,  2, 19,  49,  97,  0,  0
154, BEAM  ,  2, 18,   2,  50,  0,  0
155, BEAM  ,  2, 18,  50,  98,  0,  0
156, BEAM  ,  2, 18,   5,  53,  0,  0
157, BEAM  ,  2, 18,  53, 101,  0,  0
158, BEAM  ,  2, 18,   6,  54,  0,  0
159, BEAM  ,  2, 18,  54, 102,  0,  0
160, BEAM  ,  2, 18,   9,  57,  0,  0
161, BEAM  ,  2, 18,  57, 105,  0,  0
162, BEAM  ,  2, 18,  10,  58,  0,  0
163, BEAM  ,  2, 18,  58, 106,  0,  0
164, BEAM  ,  2, 18,  11,  59,  0,  0
165, BEAM  ,  2, 18,  59, 107,  0,  0
166, BEAM  ,  2, 18,  14,  62,  0,  0
167, BEAM  ,  2, 18,  62, 110,  0,  0
168, BEAM  ,  2, 18,  15,  63,  0,  0
169, BEAM  ,  2, 18,  63, 111,  0,  0
170, BEAM  ,  2, 18,  18,  66,  0,  0
171, BEAM  ,  2, 18,  66, 114,  0,  0
172, BEAM  ,  2, 18,  21,  69,  0,  0
173, BEAM  ,  2, 18,  69, 117,  0,  0
174, BEAM  ,  2, 18,  23,  71,  0,  0
175, BEAM  ,  2, 18,  71, 119,  0,  0
176, BEAM  ,  2, 18,  29,  77,  0,  0
177, BEAM  ,  2, 18,  77, 125,  0,  0
178, BEAM  ,  2, 18,  30,  78,  0,  0
179, BEAM  ,  2, 18,  78, 126,  0,  0
180, BEAM  ,  2, 18,  34,  82,  0,  0
181, BEAM  ,  2, 18,  82, 130,  0,  0
182, BEAM  ,  2, 18,  37,  85,  0,  0
183, BEAM  ,  2, 18,  85, 133,  0,  0
184, BEAM  ,  2, 18,  38,  86,  0,  0
185, BEAM  ,  2, 18,  86, 134,  0,  0
186, BEAM  ,  2, 18,  39,  87,  0,  0
187, BEAM  ,  2, 18,  87, 135,  0,  0
188, BEAM  ,  2, 18,  40,  88,  0,  0
189, BEAM  ,  2, 18,  88, 136,  0,  0
190, BEAM  ,  2, 18,  43,  91,  0,  0
191, BEAM  ,  2, 18,  91, 139,  0,  0
192, BEAM  ,  2, 18,  46,  94,  0,  0
193, BEAM  ,  2, 18,  94, 142,  0,  0
194, BEAM  ,  1,  4, 148, 149,  0,  0
195, BEAM  ,  1,  8, 149, 150,  0,  0
196, BEAM  ,  1,  7, 149, 150,  0,  0
197, BEAM  ,  1,  7, 150, 151,  0,  0
198, BEAM  ,  1,  7, 151, 152,  0,  0
199, BEAM  ,  1,  7, 152, 153,  0,  0
200, BEAM  ,  1,  7, 153, 154,  0,  0
201, BEAM  ,  1,  6, 153, 154,  0,  0
202, BEAM  ,  1,  6, 154, 155,  0,  0
203, BEAM  ,  1,  3, 155, 156,  0,  0
204, BEAM  ,  1,  3, 156, 157,  0,  0
205, BEAM  ,  1,  3, 157, 301,  0,  0
206, BEAM  ,  1,  3, 158, 159,  0,  0
207, BEAM  ,  1, 17, 159, 160,  0,  0
208, BEAM  ,  1, 16, 160, 161,  0,  0
209, BEAM  ,  1,  8, 161, 162,  0,  0
210, BEAM  ,  1,  8, 162, 163,  0,  0
211, BEAM  ,  1, 15, 163, 164,  0,  0
212, BEAM  ,  1,  9, 164, 165,  0,  0
213, BEAM  ,  1, 10, 165, 166,  0,  0
214, BEAM  ,  1, 13, 166, 167,  0,  0
215, BEAM  ,  1, 12, 167, 168,  0,  0
216, BEAM  ,  1, 12, 168, 169,  0,  0
217, BEAM  ,  1, 12, 169, 170,  0,  0
218, BEAM  ,  1, 12, 170, 171,  0,  0
219, BEAM  ,  1, 11, 171, 172,  0,  0
220, BEAM  ,  1, 10, 172, 173,  0,  0
221, BEAM  ,  1,  9, 173, 174,  0,  0
222, BEAM  ,  1,  8, 174, 175,  0,  0
223, BEAM  ,  1,  7, 175, 176,  0,  0
224, BEAM  ,  1,  7, 176, 177,  0,  0
225, BEAM  ,  1,  7, 177, 178,  0,  0
226, BEAM  ,  1,  6, 178, 179,  0,  0
227, BEAM  ,  1, 39, 179, 180,  0,  0
228, BEAM  ,  1,  3, 180, 181,  0,  0
229, BEAM  ,  1,  3, 181, 182,  0,  0
230, BEAM  ,  1, 41, 182, 183,  0,  0
231, BEAM  ,  1,  5, 183, 184,  0,  0
232, BEAM  ,  1,  5, 184, 185,  0,  0
233, BEAM  ,  1,  5, 185, 292,  0,  0
234, BEAM  ,  1,  5, 186, 187,  0,  0
235, BEAM  ,  1,  5, 187, 188,  0,  0
236, BEAM  ,  1,  4, 188, 189,  0,  0
237, BEAM  ,  1,  3, 189, 190,  0,  0
238, BEAM  ,  1,  3, 190, 191,  0,  0
239, BEAM  ,  1,  2, 191, 192,  0,  0
240, BEAM  ,  1,  1, 192, 193,  0,  0
241, BEAM  ,  1,  1, 193, 194,  0,  0
242, BEAM  ,  1,  1, 194, 195,  0,  0
243, BEAM  ,  1, 14,  97, 148,  0,  0
244, BEAM  ,  1, 34,   1, 196,  0,  0
245, BEAM  ,  1, 24, 196, 197,  0,  0
246, BEAM  ,  1, 28, 197, 198,  0,  0
247, BEAM  ,  1, 27, 198, 199,  0,  0
248, BEAM  ,  1, 27, 199, 200,  0,  0
249, BEAM  ,  1, 27, 200, 201,  0,  0
250, BEAM  ,  1, 26, 201, 202,  0,  0
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251, BEAM  ,    1,   26,  202,  203,    0,    0
252, BEAM  ,    1,   23,  203,  204,    0,    0
253, BEAM  ,    1,   23,  204,  205,    0,    0
254, BEAM  ,    1,   23,  205,  302,    0,    0
255, BEAM  ,    1,   23,  206,  207,    0,    0
256, BEAM  ,    1,   37,  207,  208,    0,    0
257, BEAM  ,    1,   36,  208,  209,    0,    0
258, BEAM  ,    1,   28,  209,  210,    0,    0
259, BEAM  ,    1,   28,  210,  211,    0,    0
260, BEAM  ,    1,   35,  211,  212,    0,    0
261, BEAM  ,    1,   29,  212,  213,    0,    0
262, BEAM  ,    1,   30,  213,  214,    0,    0
263, BEAM  ,    1,   33,  214,  215,    0,    0
264, BEAM  ,    1,   32,  215,  216,    0,    0
265, BEAM  ,    1,   32,  216,  217,    0,    0
266, BEAM  ,    1,   32,  217,  218,    0,    0
267, BEAM  ,    1,   32,  218,  219,    0,    0
268, BEAM  ,    1,   31,  219,  220,    0,    0
269, BEAM  ,    1,   30,  220,  221,    0,    0
270, BEAM  ,    1,   29,  221,  222,    0,    0
271, BEAM  ,    1,   28,  222,  223,    0,    0
272, BEAM  ,    1,   27,  223,  224,    0,    0
273, BEAM  ,    1,   27,  224,  225,    0,    0
274, BEAM  ,    1,   27,  225,  226,    0,    0
275, BEAM  ,    1,   26,  226,  227,    0,    0
276, BEAM  ,    1,   38,  227,  228,    0,    0
277, BEAM  ,    1,   23,  228,  229,    0,    0
278, BEAM  ,    1,   23,  229,  230,    0,    0
279, BEAM  ,    1,   40,  230,  231,    0,    0
280, BEAM  ,    1,   25,  231,  232,    0,    0
281, BEAM  ,    1,   25,  232,  233,    0,    0
282, BEAM  ,    1,   25,  233,  293,    0,    0
283, BEAM  ,    1,   25,  234,  235,    0,    0
284, BEAM  ,    1,   25,  235,  236,    0,    0
285, BEAM  ,    1,   24,  236,  237,    0,    0
286, BEAM  ,    1,   23,  237,  238,    0,    0
287, BEAM  ,    1,   23,  238,  239,    0,    0
288, BEAM  ,    1,   22,  239,  240,    0,    0
289, BEAM  ,    1,   21,  240,  241,    0,    0
290, BEAM  ,    1,   21,  241,  242,    0,    0
291, BEAM  ,    1,   21,  242,  243,    0,    0
292, BEAM  ,    2,   20,   49,  244,    0,    0
293, BEAM  ,    2,   20,  244,  245,    0,    0
294, BEAM  ,    2,   20,  245,  246,    0,    0
295, BEAM  ,    2,   20,  246,  247,    0,    0
296, BEAM  ,    2,   20,  247,  248,    0,    0
297, BEAM  ,    2,   20,  248,  249,    0,    0
298, BEAM  ,    2,   20,  249,  250,    0,    0
299, BEAM  ,    2,   20,  250,  251,    0,    0
300, BEAM  ,    2,   20,  251,  252,    0,    0
301, BEAM  ,    2,   20,  252,  253,    0,    0
302, BEAM  ,    2,   20,  253,  303,    0,    0
303, BEAM  ,    2,   20,  254,  255,    0,    0
304, BEAM  ,    2,   20,  255,  256,    0,    0
305, BEAM  ,    2,   20,  256,  257,    0,    0
306, BEAM  ,    2,   20,  257,  258,    0,    0
307, BEAM  ,    2,   20,  258,  259,    0,    0
308, BEAM  ,    2,   20,  259,  260,    0,    0
309, BEAM  ,    2,   20,  260,  261,    0,    0
310, BEAM  ,    2,   20,  261,  262,    0,    0
311, BEAM  ,    2,   20,  262,  263,    0,    0
312, BEAM  ,    2,   20,  263,  264,    0,    0
313, BEAM  ,    2,   20,  264,  265,    0,    0
314, BEAM  ,    2,   20,  265,  266,    0,    0
315, BEAM  ,    2,   20,  266,  267,    0,    0
316, BEAM  ,    2,   20,  267,  268,    0,    0
317, BEAM  ,    2,   20,  268,  269,    0,    0
318, BEAM  ,    2,   20,  269,  270,    0,    0
319, BEAM  ,    2,   20,  270,  271,    0,    0
320, BEAM  ,    2,   20,  271,  272,    0,    0
321, BEAM  ,    2,   20,  272,  273,    0,    0
322, BEAM  ,    2,   20,  273,  274,    0,    0
323, BEAM  ,    2,   20,  274,  275,    0,    0
324, BEAM  ,    2,   20,  275,  276,    0,    0
325, BEAM  ,    2,   20,  276,  277,    0,    0
326, BEAM  ,    2,   20,  277,  278,    0,    0
327, BEAM  ,    2,   20,  278,  279,    0,    0
328, BEAM  ,    2,   20,  279,  280,    0,    0
329, BEAM  ,    2,   20,  280,  281,    0,    0
330, BEAM  ,    2,   20,  281,  294,    0,    0
331, BEAM  ,    2,   20,  282,  283,    0,    0
332, BEAM  ,    2,   20,  283,  284,    0,    0
333, BEAM  ,    2,   20,  284,  285,    0,    0
334, BEAM  ,    2,   20,  285,  286,    0,    0
335, BEAM  ,    2,   20,  286,  287,    0,    0
336, BEAM  ,    2,   20,  287,  288,    0,    0
337, BEAM  ,    2,   20,  288,  289,    0,    0
338, BEAM  ,    2,   20,  289,  290,    0,    0
339, BEAM  ,    2,   20,  290,  291,    0,    0
340, BEAM  ,    2,   19,  242,  290,    0,    0
341, BEAM  ,    2,   19,  290,  194,    0,    0
342, BEAM  ,    2,   19,  217,  265,    0,    0
343, BEAM  ,    2,   19,  265,  169,    0,    0
344, BEAM  ,    2,   18,  196,  244,    0,    0
345, BEAM  ,    2,   18,  244,  148,    0,    0
346, BEAM  ,    2,   18,  199,  247,    0,    0
347, BEAM  ,    2,   18,  247,  151,    0,    0
348, BEAM  ,    2,   18,  200,  248,    0,    0
349, BEAM  ,    2,   18,  248,  152,    0,    0
350, BEAM  ,    2,   18,  204,  252,    0,    0
351, BEAM  ,    2,   18,  252,  156,    0,    0
352, BEAM  ,    2,   18,  205,  253,    0,    0
353, BEAM  ,    2,   18,  253,  157,    0,    0
354, BEAM  ,    2,   18,  206,  254,    0,    0
355, BEAM  ,    2,   18,  254,  158,    0,    0
356, BEAM  ,    2,   18,  209,  257,    0,    0
357, BEAM  ,    2,   18,  257,  161,    0,    0
358, BEAM  ,    2,   18,  210,  258,    0,    0
359, BEAM  ,    2,   18,  258,  162,    0,    0
360, BEAM  ,    2,   18,  213,  261,    0,    0
361, BEAM  ,    2,   18,  261,  165,    0,    0
362, BEAM  ,    2,   18,  216,  264,    0,    0
363, BEAM  ,    2,   18,  264,  168,    0,    0
364, BEAM  ,    2,   18,  218,  266,    0,    0
365, BEAM  ,    2,   18,  266,  170,    0,    0
366, BEAM  ,    2,   18,  224,  272,    0,    0
367, BEAM  ,    2,   18,  272,  176,    0,    0
368, BEAM  ,    2,   18,  225,  273,    0,    0
369, BEAM  ,    2,   18,  273,  177,    0,    0
370, BEAM  ,    2,   18,  229,  277,    0,    0
371, BEAM  ,    2,   18,  277,  181,    0,    0
372, BEAM  ,    2,   18,  232,  280,    0,    0
373, BEAM  ,    2,   18,  280,  184,    0,    0
374, BEAM  ,    2,   18,  233,  281,    0,    0
375, BEAM  ,    2,   18,  281,  185,    0,    0
376, BEAM  ,    2,   18,  234,  282,    0,    0
377, BEAM  ,    2,   18,  282,  186,    0,    0
378, BEAM  ,    2,   18,  235,  283,    0,    0
379, BEAM  ,    2,   18,  283,  187,    0,    0
380, BEAM  ,    2,   18,  238,  286,    0,    0
381, BEAM  ,    2,   18,  286,  190,    0,    0
382, BEAM  ,    2,   18,  241,  289,    0,    0
383, BEAM  ,    2,   18,  289,  193,    0,    0
384, BEAM  ,    1,    5,  292,  186,    0,    0
385, BEAM  ,    1,   25,  293,  234,    0,    0
386, BEAM  ,    2,   20,  294,  282,    0,    0
387, BEAM  ,    1,    5,  295,  135,    0,    0
388, BEAM  ,    1,   25,  296,   39,    0,    0
389, BEAM  ,    2,   20,  297,   87,    0,    0
390, BEAM  ,    1,    3,  298,  107,    0,    0
391, BEAM  ,    1,   23,  299,   11,    0,    0
392, BEAM  ,    2,   20,  300,   59,    0,    0
393, BEAM  ,    1,    3,  301,  158,    0,    0
394, BEAM  ,    1,   23,  302,  206,    0,    0
395, BEAM  ,    2,   20,  303,  254,    0,    0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS   ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
    1, STEEL, SM490          , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),          , SM490
    2, STEEL, SM400          , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),          , SM400
*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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1, D2, [SRC]                                              ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2      ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE             ; 1st 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, 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, SHAPE                                   ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                ; 2nd line
;          N1, N2, Hr, Hr2, tr1, tr2                                        ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh  ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                   ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2                                          ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh  ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                   ; 1st line - COMPOSITE-CI/CT
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;                                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, SHAPE                          ; 1st line - PSC
;                                OPT1,    OPT2,    [JOINT]          ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE          ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]          ; 4th line
;                                                  [SIZE-A]         ; 5th line
;                                                  [SIZE-B]         ; 6th line
;                                                  [SIZE-C]         ; 7th line
;                                                  [SIZE-D]         ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    1, COMPOSITE , G1-1                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    2, COMPOSITE , G1-2                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    3, COMPOSITE , G1-3                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    4, COMPOSITE , G1-4                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    5, COMPOSITE , G1-5                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    6, COMPOSITE , G1-6                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    7, COMPOSITE , G1-7                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    8, COMPOSITE , G1-8                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    9, COMPOSITE , G1-9                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   10, COMPOSITE , G1-10               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   11, COMPOSITE , G1-11               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   12, COMPOSITE , G1-12               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   13, COMPOSITE , G1-13               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   14, COMPOSITE , G1-14               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   15, COMPOSITE , G1-15               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   16, COMPOSITE , G1-16               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   17, COMPOSITE , G1-17               , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   18, DBUSER    , Cross Beam-일반    , CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
   19, DBUSER    , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
   20, DBUSER    , Stringer           , CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
   21, COMPOSITE , G2-1                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   22, COMPOSITE , G2-2                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
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      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   23, COMPOSITE , G2-3                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   24, COMPOSITE , G2-4                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   25, COMPOSITE , G2-5                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   26, COMPOSITE , G2-6                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   27, COMPOSITE , G2-7                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   28, COMPOSITE , G2-8                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   29, COMPOSITE , G2-9                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   30, COMPOSITE , G2-10               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   31, COMPOSITE , G2-11               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-12               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-13               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-14               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-15               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-16               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-17               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G1-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G1-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R,
HE_G, HE_B, bBLEND, FACT
   1, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   2, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   3, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   4, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   5, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   6, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   7, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   8, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   9, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   10, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   17, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   18, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   19, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   20, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   21, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   22, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   23, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   24, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   25, 255,    0,    0,    0, 255,    0,    0,    0, 255,
```

```
NO, 0.5
   26, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   27, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   28, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   29, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   30, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   31, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   32, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   33, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   34, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   35, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   36, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   37, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   38, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   39, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   40, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   41, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
*COMP-GEN-SECT-PSC-DESIGN      ; Composite Section
for PSC Design
; ELEM, (Z1, Z2, Z3, t1, t2, t3, TotT)-I, (Z1, Z2, Z3, t1,
t2, t3, TotT)-J
     1, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     2, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     3, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     4, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     5, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     6, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     7, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     8, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     9, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    10, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    11, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    12, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    13, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    14, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    15, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    16, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    17, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    21, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    22, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    23, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    24, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    25, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    26, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    27, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    28, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    29, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    30, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    31, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    32, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    33, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    34, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    35, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    36, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    37, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    38, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    40, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    41, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1, D2, [SRC]
                           ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2       ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE               ; 1st 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, 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,   SHAPE
                           ; 1st line - COMPOSITE-SB
;                Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
                           ; 2nd line
;                N1, N2, Hr, Hr2, tr1, tr2
                           ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 4th line
;  iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   SHAPE
                           ; 1st line - COMPOSITE-SI
;                Hw, tw, B, tf1, B2, tf2
                           ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 3rd line
;  iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   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,   SHAPE
                           ; 1st line - PSC
;                OPT1, OPT2, [JOINT]
                           ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                  ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                          [SIZE-A]
                           ; 5th line
;                                          [SIZE-B]
                           ; 6th line
;                                          [SIZE-C]
                           ; 7th line
;                                          [SIZE-D]
                           ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
     1, COMPOSITE , G1-1          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     2, COMPOSITE , G1-2          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     3, COMPOSITE , G1-3          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     4, COMPOSITE , G1-4          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
```

0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
5, COMPOSITE , G1-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
6, COMPOSITE , G1-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
7, COMPOSITE , G1-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
8, COMPOSITE , G1-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
9, COMPOSITE , G1-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
10, COMPOSITE , G1-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
19, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
20, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
21, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
22, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
23, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
24, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-10 , CC, 0, 0, 0, 0, 0, 0, YES, B

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        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   31, COMPOSITE , G2-11                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-12                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-13                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-14                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-15                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-16                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-17                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-18                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G1-18                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-19                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G1-19                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
*STLDCASE     ; Static Load Cases
; LCNAME, LCTYPE, DESC
   자중 , D ,
   슬래브하중, D ,
   "포장,방호벽하중", D ,
   단위모멘트, USER,
*CONSTRAINT     ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   1, 111000,
   97, 101000,
   22 47 217 242, 011000,
   118 143 169 194, 001000,
*OFFSET     ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj, RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP                ; TYPE=ELEMENT
   148, ELEMENT, 0, 1.3,
   149, ELEMENT, 1.3, 0,
   150, ELEMENT, 0, 1.3,
   151, ELEMENT, 1.3, 0,
   152, ELEMENT, 0, 1.3,
   153, ELEMENT, 1.3, 0,
   340, ELEMENT, 0, 1.3,
   341, ELEMENT, 1.3, 0,
   342, ELEMENT, 0, 1.3,
   343, ELEMENT, 1.3, 0,
*USE-STLD, 자중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
;    End    of    data    for    load    case    [자중]
--------------------------
*USE-STLD, 슬래브하중
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
      2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      10, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      10, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      11, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      11, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      12, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      13, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      14, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      15, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      16, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      16, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      17, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      17, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      18, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      18, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      19, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      19, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      20, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      20, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      21, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      21, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      22, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      22, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      23, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      23, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      24, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      24, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      25, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      25, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      26, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      26, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      27, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      27, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
```

-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
28, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
28, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
29, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
29, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
30, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
30, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
31, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
31, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
32, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
32, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
33, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
33, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
34, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
34, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
35, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
35, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
36, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
36, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
37, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
37, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
38, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
38, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
39, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
39, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
40, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
40, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
41, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
41, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
42, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
42, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
43, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
43, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
-44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
44, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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46, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
47, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
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47, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
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53, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    277, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    277, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    278, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    278, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    279, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    279, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    280, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    280, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    281, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    281, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    282, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    282, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    283, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    283, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    284, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    284, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    285, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    285, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    286, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    286, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    287, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    287, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    288, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    288, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    289, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    289, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    290, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    290, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    291, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    291, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    384, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
    384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
    385, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    385, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    387, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
    387, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
    388, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    388, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    390, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
    390, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
    391, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    391, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    393, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
    393, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
    394, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    394, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [슬래브하중]
--------------------------
*USE-STLD, "포장,방호벽하중"
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
    2, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    3, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    4, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    4, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    4, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    5, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    5, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    5, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    6, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    6, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    6, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    7, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    7, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    7, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    8, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    8, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    8, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    10, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    10, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    10, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    11, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    11, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    11, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    16, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    16, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    16, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    17, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    17, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    17, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    18, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    18, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    18, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    19, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    19, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    20, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    20, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    21, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    21, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    22, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    23, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    23, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    23, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    24, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    24, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    24, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    25, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    25, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    25, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    26, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    26, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
```

-10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
26, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
27, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
27, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
27, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
28, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
28, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
28, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
29, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
29, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
29, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
30, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
30, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
30, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
31, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
31, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
31, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
32, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
32, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
32, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
33, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
33, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
33, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
34, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
34, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
34, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
35, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
35, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
35, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
36, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
36, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
36, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
37, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
37, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
37, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
38, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
38, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
38, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
39, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
39, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
39, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
40, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
40, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
40, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
41, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
41, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
41, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
42, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
42, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
42, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
43, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
43, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
43, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
44, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
44, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
44, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
45, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
45, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
45, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
46, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
46, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
46, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
47, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
47, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
47, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
48, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
48, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
48, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
49, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
49, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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50, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
50, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
50, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
51, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
51, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
51, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
52, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
52, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
52, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
53, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
53, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
53, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
54, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
54, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
54, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
55, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
55, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
55, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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56, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
56, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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57, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
57, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
58, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
58, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
58, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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61, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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61, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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62, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
62, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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76, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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87, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
88, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
88, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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89, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
89, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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90, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
90, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
91, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
91, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
91, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
92, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
92, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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94, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
95, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
95, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
95, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
96, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
96, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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98, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
98, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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99, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
99, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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194, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
194, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
195, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
195, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
195, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
196, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
196, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
196, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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202, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
202, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, −11.094, 1, −11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, −5.704, 1, −5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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218, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
265, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, −10.663, 1, −10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
265, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, −3.007, 1, −3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
265, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,

```
   266, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   266, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   267, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   267, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   267, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   268, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   268, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   269, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   269, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   276, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   278, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   287, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   287, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   288, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   288, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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   384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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   387, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   388, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   391, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   394, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [포장,방호벽하중]
-------------------------
*USE-STLD, 단위모멘트
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  47, 0, 0, 0, 0, -1, 0,
 143, 0, 0, 0, 0, -1, 0,
 194, 0, 0, 0, 0, 1, 0,
 242, 0, 0, 0, 0, 1, 0,
; End of data for load case [단위모멘트]
-------------------------
*MVLDCODE    ; Moving Load Code
; CODE=CODE
   CODE=KOREA
*LINELANE    ; Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW, WS, bLANEOPT ; line 1
;            iELEM1, ECC1, FACT1, bSPAN1, ECCVL...
             ; from line 2
   NAME=L1, LANE, , 0, 0, BOTH, 3, 1.8, NO
         242, -0.395, 0.157895, YES, 0,    241, -0.395,
0.157895, NO, 0
         240, -0.395, 0.157895, NO, 0,    239, -0.395,
0.157895, NO, 0
         238, -0.395, 0.157895, NO, 0,    237, -0.395,
0.157895, NO, 0
         236, -0.395, 0.157895, NO, 0,    235, -0.395,
0.157895, NO, 0
         234, -0.395, 0.157895, NO, 0,    384, -0.395,
0.157895, NO, 0
         233, -0.395, 0.157895, NO, 0,    232, -0.395,
0.157895, NO, 0
         231, -0.395, 0.157895, NO, 0,    230, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
         223, -0.395, 0.157895, NO, 0,    222, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
         211, -0.395, 0.157895, NO, 0,    210, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
         204, -0.395, 0.157895, NO, 0,    203, -0.395,
0.157895, NO, 0
         202, -0.395, 0.157895, NO, 0,    200, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
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0.157895, NO, 0
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         194, -0.395, 0.157895, NO, 0,    243, -0.395,
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0.157895, NO, 0
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0.157895, NO, 0
           7, -0.395, 0.157895, NO, 0,      8, -0.395,
0.157895, NO, 0
           9, -0.395, 0.157895, NO, 0,     10, -0.395,
0.157895, NO, 0
          11, -0.395, 0.157895, NO, 0,     12, -0.395,
0.157895, NO, 0
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0.157895, NO, 0
          14, -0.395, 0.157895, NO, 0,     15, -0.395,
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*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 ; HA, HA & HB, HA & HB(Auto)
; NAME=NAME, 2, iSTYPE, W1, W2, W3, L, Pa, Pb, D1,

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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] : nLT, 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, ALP, TPSY, W, BET, 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, bDF, 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, s1_UDL            ; 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,                    ; standard (SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; 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, s1_UDL      ; user (Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; user (Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; 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



;      bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT ; user (Type 5)
; NAME=NAME, 2, iTYPE, W, D, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC ; user (Type 6)
; NAME=NAME, 2, iTYPE, P, W, bFATI, nLOADFAC, dLOADFAC                ; user (Type 7)
; if Moving Load Code is KSCE-LSD15
; NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC, CODE                ; standard
; NAME=NAME, 2, 8, L1, W1, W2, EXP                    ; user: line 1 (Type 1)
; NAME=NAME, 2, 1, W1, W2, D1, D2                    ; user: line 1 (Type 2)
; NAME=NAME, 2, 6, LOADNUM, DIST, W, L                    ; user: line 1 (Type 3)
;      LOAD1, DIST1, LOAD2, DIST2, ...                    ; user: from line 2
; if Moving Load Code is AASHTO LRFD, CANADA and Load Type is Permit Truck
; NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR                    ; user(Permit Truck)
;      AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2, D2, ..., Pn, Dn      ; user(from line 2)
;      ...

;      AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2, D2, ..., Pn, Dn
;      AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2, SPACING2, bVS2 ...      ; line 2+AXLE-TYPE-NUM
; if Moving Load Code is not one of those specified above.
; NAME=NAME, 1, TYPE-NAME, DLA, CODE                    ; standard
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST      ; user: line 1
;      LOAD1, DIST1, LOAD2, DIST2, ...                    ; user: from line 2
   NAME=DB-24, 1, DB-24, 0, KS-RB
   NAME=DL-24, 1, DL-24, 0, KS-RB
*MVLDCASE   ; Moving Load Cases
; NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC, LCOM, SERIAL ; 1st line
;      nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4      ; 2st line
;      TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11, LANE12, ...      ; 3nd line
;      ...
;      ...
;      TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1, LANEn2, ...      ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN, SCALE, DESC      ; Permit
   NAME=활하중, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 1
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DB-24, 1, 1, 3, L1, L2, L3
      VL, DL-24, 1, 1, 3, L1, L2, L3
   NAME=활하중(DB), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 2
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DB-24, 1, 1, 3, L1, L2, L3
   NAME=활하중(DL), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 3
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DL-24, 1, 1, 3, L1, L2, L3
*SM-GROUP   ; Settlement Group
; GRNAME, DISPLACEMENT, NODE_LIST
   P3, -0.01, 194 242
   P4, -0.01, 169 217
   P5, -0.01, 1 97
   P6, -0.01, 22 118
   A2, -0.01, 47 143
*SMLDCASE   ; Settlement Load Cases
; NAME=NAME, iSMIN, iSMAX, SCALE, DESC ; line 1
;      GRNAME1, GRNAME2, ...      ; from line 2
   NAME=지점침하, 1, 4, 1,
      P3, P4, P5, P6, A2
*LOADCOMB   ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE   ; line 1
;      ANAL1, LCNAME1, FACT1, ...      ; from line 2
   NAME=합성전, GEN, ACTIVE, 0, 0, , 0, 0
      ST, 자중, 1, ST, 슬래브하중, 1
   NAME=합성후, GEN, ACTIVE, 0, 0, , 0, 0
      ST, "포장,방호벽하중", 1
   NAME=고정하중, GEN, ACTIVE, 0, 0, , 0, 0
      CB, 합성전, 1, CB, 합성후, 1
*LC-COLOR   ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)
 ST, 자중, 210, 210, 210, 255, 255, 87, 0, 128, 192
 ST, 슬래브하중, 255, 160, 255, 255, 255, 255, 163, 255, 160
 ST, "포장,방호벽하중", 0, 157, 192, 93, 255, 87, 0, 157, 192
 ST, 단위모멘트, 0, 128, 192, 163, 160, 255, 255, 87, 128
 MV, 활하중, 163, 255, 160, 212, 160, 255, 160, 255, 255
 CB, 합성전, 255, 87, 87, 255, 192, 160, 146, 0, 255
 CB, 합성후, 192, 128, 0, 255, 255, 87, 255, 87, 87
 SM, 지점침하, 255, 255, 87, 0, 128, 128, 255, 255, 87
 MV, 활하중(DB), 85, 192, 0, 255, 87, 87, 0, 128, 128
 MV, 활하중(DL), 210, 210, 210, 255, 255, 255, 0, 157, 192
 CB, 고정하중, 160, 192, 255, 0, 128, 57, 163, 160, 255
*DGN-MATL   ; Modify Steel(Concrete) Material
;      iMAT, TYPE, MNAME, [DATA1]      ; STEEL
; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT, LONG ; CONC
; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]      ; SRC
;      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
; [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1, FY2, FY3, FY4
;      FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
; [DATA4] : 1, DB, CODE, NAME or 2, FC
; [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5, AL6, AL7, AL8, AL9, AL10
;      MIN1, MIN2, MIN3
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
   1, STEEL, SM490      , 1, KS10-Civil(S), ,SM490      , 1, KS01-Civil(RC),      ,
      , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,
   2, STEEL, SM400      , 1, KS10-Civil(S), ,SM400      , 1, KS01-Civil(RC),      ,
      , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,
*SECTION MANAGER-GROUP & PART   ; Section Manager - Group & Part
;      SECT = NO, bSAMEJ      ; line 1
;      GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE      ; line 2
; ..... ;

;      LOOP UTIL (GRPDISIZE, GRPDJSIZE)      ;
;      GROUPID, GROUPNAME, GROUPTYPE      ; line n
; ..... ;

;      LOOP UTIL (PARTISIZE, PARTJSIZE)      ;
;      PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER      ; line n
;      LINESIZE, LINEINDEX[i]..... ; line n
; ..... ;

   SECT=1, YES
 0, 0, 0, 0
   SECT=2, YES
 0, 0, 0, 0
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  SECT=4, YES
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  SECT=5, YES
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  SECT=6, YES
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  SECT=7, YES
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  SECT=8, YES
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  SECT=9, YES
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  SECT=10, YES
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  SECT=35, YES
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  SECT=36, YES
 0, 0, 0, 0
  SECT=37, YES
 0, 0, 0, 0
  SECT=38, YES
 0, 0, 0, 0
  SECT=40, YES
 0, 0, 0, 0
  SECT=41, YES
 0, 0, 0, 0
*SECTION MANAGER-STIFFENER     ; Section Manager - Stiffener
;          SECT          =          NO,          bSAMEJ                          ; line 1
;                                    STFNISIZE,    STFNJSIZE                       ; line 2
; ...................................................................    ;

;                    LOOP   UTIL   (STFNISIZE,   STFNJSIZE)                         ;
;            TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC                        ; line n
;                        STIFFTYPE,    dSIZE(0    ~    20)                           ; line n
;                            LINESIZE,    LINEINDEX[i]......                        ; line n
; ...................................................................    ;

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  SECT=41, YES
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*ENDDATA
```

■ 남천교 부산방향(S1～S3) 상부 input

```
;-----------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2015/12/30
;-----------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT     ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, KCAL, C
*REBAR-MATL-CODE     ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE     ; Nodes
; iNO, X, Y, Z
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      4, 7.5, 0, 0
      5, 8.025, 0, 0
      6, 8.125, 0, 0
      7, 12.497, 0, 0
      8, 15.522, 0, 0
      9, 15.622, 0, 0
     10, 17.497, 0, 0
     11, 21.772, 0, 0
     12, 21.872, 0, 0
     13, 22.497, 0, 0
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     19, 34.997, 0, 0
     20, 36.772, 0, 0
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     23, 42.497, 0, 0
     24, 49.272, 0, 0
     25, 49.372, 0, 0
     26, 52.122, 0, 0
     27, 57.122, 0, 0
     28, 62.122, 0, 0
     29, 65.247, 0, 0
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     43, 47.497, 0, 0
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     45, 2.5, 3.9, 0
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     47, 7.5, 3.9, 0
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     92, 8.125, 7.8, 0
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    259, 61.897, 0, 0
    260, 61.897, 7.8, 0
    261, 61.897, 3.9, 0
*ELEMENT     ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS     ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8      ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
```

86,	BEAM ,	2,	23,	44,	45,	0,	0
87,	BEAM ,	2,	23,	45,	46,	0,	0
88,	BEAM ,	2,	23,	46,	47,	0,	0
89,	BEAM ,	2,	23,	47,	48,	0,	0
90,	BEAM ,	2,	23,	48,	49,	0,	0
91,	BEAM ,	2,	23,	49,	50,	0,	0
92,	BEAM ,	2,	23,	50,	51,	0,	0
93,	BEAM ,	2,	23,	51,	52,	0,	0
94,	BEAM ,	2,	23,	52,	53,	0,	0
95,	BEAM ,	2,	23,	53,	54,	0,	0
96,	BEAM ,	2,	23,	54,	55,	0,	0
97,	BEAM ,	2,	23,	55,	56,	0,	0
98,	BEAM ,	2,	23,	56,	57,	0,	0
99,	BEAM ,	2,	23,	57,	58,	0,	0
100,	BEAM ,	2,	23,	58,	59,	0,	0
101,	BEAM ,	2,	23,	59,	60,	0,	0
102,	BEAM ,	2,	23,	60,	61,	0,	0
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105,	BEAM ,	2,	23,	63,	64,	0,	0
106,	BEAM ,	2,	23,	64,	65,	0,	0
107,	BEAM ,	2,	23,	65,	66,	0,	0
108,	BEAM ,	2,	23,	66,	83,	0,	0
109,	BEAM ,	2,	23,	83,	84,	0,	0
110,	BEAM ,	2,	23,	84,	85,	0,	0
111,	BEAM ,	2,	23,	85,	86,	0,	0
112,	BEAM ,	2,	23,	86,	67,	0,	0
113,	BEAM ,	2,	23,	67,	68,	0,	0
114,	BEAM ,	2,	23,	68,	69,	0,	0
115,	BEAM ,	2,	23,	69,	70,	0,	0
116,	BEAM ,	2,	23,	70,	261,	0,	0
117,	BEAM ,	2,	23,	71,	72,	0,	0
118,	BEAM ,	2,	23,	72,	73,	0,	0
119,	BEAM ,	2,	23,	73,	74,	0,	0
120,	BEAM ,	2,	23,	74,	75,	0,	0
121,	BEAM ,	2,	23,	75,	76,	0,	0
122,	BEAM ,	2,	23,	76,	77,	0,	0
123,	BEAM ,	2,	23,	77,	78,	0,	0
124,	BEAM ,	2,	23,	78,	79,	0,	0
125,	BEAM ,	2,	23,	79,	80,	0,	0
126,	BEAM ,	2,	23,	80,	81,	0,	0
127,	BEAM ,	2,	23,	81,	82,	0,	0
128,	BEAM ,	2,	22,	38,	81,	0,	0
129,	BEAM ,	2,	22,	81,	124,	0,	0
130,	BEAM ,	2,	21,	2,	45,	0,	0
131,	BEAM ,	2,	21,	45,	88,	0,	0
132,	BEAM ,	2,	21,	4,	47,	0,	0
133,	BEAM ,	2,	21,	47,	90,	0,	0
134,	BEAM ,	2,	21,	7,	50,	0,	0
135,	BEAM ,	2,	21,	50,	93,	0,	0
136,	BEAM ,	2,	21,	10,	53,	0,	0
137,	BEAM ,	2,	21,	53,	96,	0,	0
138,	BEAM ,	2,	21,	13,	56,	0,	0
139,	BEAM ,	2,	21,	56,	99,	0,	0
140,	BEAM ,	2,	22,	14,	57,	0,	0
141,	BEAM ,	2,	22,	57,	100,	0,	0
142,	BEAM ,	2,	21,	16,	59,	0,	0
143,	BEAM ,	2,	21,	59,	102,	0,	0
144,	BEAM ,	2,	21,	22,	65,	0,	0
145,	BEAM ,	2,	21,	65,	108,	0,	0
146,	BEAM ,	2,	21,	23,	66,	0,	0
147,	BEAM ,	2,	21,	66,	109,	0,	0
148,	BEAM ,	2,	21,	43,	86,	0,	0
149,	BEAM ,	2,	21,	86,	129,	0,	0
150,	BEAM ,	2,	21,	26,	69,	0,	0
151,	BEAM ,	2,	21,	69,	112,	0,	0
152,	BEAM ,	2,	21,	27,	70,	0,	0
153,	BEAM ,	2,	21,	70,	113,	0,	0
154,	BEAM ,	2,	21,	28,	71,	0,	0
155,	BEAM ,	2,	21,	71,	114,	0,	0
156,	BEAM ,	2,	21,	30,	73,	0,	0
157,	BEAM ,	2,	21,	73,	116,	0,	0
158,	BEAM ,	2,	21,	33,	76,	0,	0
159,	BEAM ,	2,	21,	76,	119,	0,	0
160,	BEAM ,	2,	21,	37,	80,	0,	0
161,	BEAM ,	2,	21,	80,	123,	0,	0
247,	BEAM ,	2,	23,	44,	214,	0,	0
248,	BEAM ,	2,	23,	214,	215,	0,	0
249,	BEAM ,	2,	23,	215,	216,	0,	0
250,	BEAM ,	2,	23,	216,	217,	0,	0
251,	BEAM ,	2,	23,	217,	218,	0,	0
252,	BEAM ,	2,	23,	218,	219,	0,	0
253,	BEAM ,	2,	23,	219,	220,	0,	0
254,	BEAM ,	2,	23,	220,	221,	0,	0
255,	BEAM ,	2,	23,	221,	222,	0,	0
256,	BEAM ,	2,	23,	222,	223,	0,	0
257,	BEAM ,	2,	23,	223,	224,	0,	0
258,	BEAM ,	2,	23,	224,	225,	0,	0
259,	BEAM ,	2,	23,	225,	226,	0,	0
260,	BEAM ,	2,	23,	226,	227,	0,	0
261,	BEAM ,	2,	23,	227,	228,	0,	0
262,	BEAM ,	2,	23,	228,	229,	0,	0
263,	BEAM ,	2,	23,	229,	230,	0,	0
264,	BEAM ,	2,	23,	230,	231,	0,	0
265,	BEAM ,	2,	23,	231,	232,	0,	0
266,	BEAM ,	2,	23,	232,	233,	0,	0
267,	BEAM ,	2,	23,	233,	234,	0,	0
268,	BEAM ,	2,	23,	234,	235,	0,	0
269,	BEAM ,	2,	23,	235,	236,	0,	0
270,	BEAM ,	2,	23,	236,	237,	0,	0
271,	BEAM ,	2,	23,	237,	238,	0,	0
272,	BEAM ,	2,	23,	238,	239,	0,	0
273,	BEAM ,	2,	23,	239,	240,	0,	0
274,	BEAM ,	2,	23,	240,	241,	0,	0
275,	BEAM ,	2,	23,	241,	242,	0,	0
276,	BEAM ,	2,	23,	242,	243,	0,	0
277,	BEAM ,	2,	23,	243,	258,	0,	0
278,	BEAM ,	2,	23,	244,	245,	0,	0
279,	BEAM ,	2,	23,	245,	246,	0,	0
280,	BEAM ,	2,	23,	246,	247,	0,	0
281,	BEAM ,	2,	23,	247,	248,	0,	0
282,	BEAM ,	2,	23,	248,	249,	0,	0
283,	BEAM ,	2,	23,	249,	250,	0,	0
284,	BEAM ,	2,	23,	250,	251,	0,	0
285,	BEAM ,	2,	23,	251,	252,	0,	0
286,	BEAM ,	2,	23,	252,	253,	0,	0
287,	BEAM ,	2,	23,	253,	254,	0,	0
288,	BEAM ,	2,	23,	254,	255,	0,	0
289,	BEAM ,	2,	22,	170,	254,	0,	0
290,	BEAM ,	2,	22,	254,	212,	0,	0
291,	BEAM ,	2,	21,	130,	214,	0,	0
292,	BEAM ,	2,	21,	214,	172,	0,	0
293,	BEAM ,	2,	21,	132,	216,	0,	0
294,	BEAM ,	2,	21,	216,	174,	0,	0
295,	BEAM ,	2,	21,	135,	219,	0,	0
296,	BEAM ,	2,	21,	219,	177,	0,	0
297,	BEAM ,	2,	21,	138,	222,	0,	0
298,	BEAM ,	2,	21,	222,	180,	0,	0
299,	BEAM ,	2,	21,	141,	225,	0,	0
300,	BEAM ,	2,	21,	225,	183,	0,	0
301,	BEAM ,	2,	22,	142,	226,	0,	0
302,	BEAM ,	2,	22,	226,	184,	0,	0
303,	BEAM ,	2,	21,	144,	228,	0,	0
304,	BEAM ,	2,	21,	228,	186,	0,	0
305,	BEAM ,	2,	21,	150,	234,	0,	0
306,	BEAM ,	2,	21,	234,	192,	0,	0
307,	BEAM ,	2,	21,	151,	235,	0,	0
308,	BEAM ,	2,	21,	235,	193,	0,	0
309,	BEAM ,	2,	21,	155,	239,	0,	0
310,	BEAM ,	2,	21,	239,	197,	0,	0
311,	BEAM ,	2,	21,	158,	242,	0,	0
312,	BEAM ,	2,	21,	242,	200,	0,	0
313,	BEAM ,	2,	21,	159,	243,	0,	0
314,	BEAM ,	2,	21,	243,	201,	0,	0
315,	BEAM ,	2,	21,	160,	244,	0,	0
316,	BEAM ,	2,	21,	244,	202,	0,	0
317,	BEAM ,	2,	21,	162,	246,	0,	0
318,	BEAM ,	2,	21,	246,	204,	0,	0
319,	BEAM ,	2,	21,	165,	249,	0,	0
320,	BEAM ,	2,	21,	249,	207,	0,	0
321,	BEAM ,	2,	21,	169,	253,	0,	0
322,	BEAM ,	2,	21,	253,	211,	0,	0
325,	BEAM ,	2,	23,	258,	244,	0,	0
328,	BEAM ,	2,	23,	261,	71,	0,	0
329,	BEAM ,	1,	1,	213,	212,	0,	0
330,	BEAM ,	1,	1,	212,	211,	0,	0
331,	BEAM ,	1,	1,	211,	210,	0,	0
332,	BEAM ,	1,	1,	122,	123,	0,	0
333,	BEAM ,	1,	1,	123,	124,	0,	0
334,	BEAM ,	1,	1,	124,	125,	0,	0
335,	BEAM ,	1,	24,	171,	170,	0,	0
336,	BEAM ,	1,	24,	170,	169,	0,	0
337,	BEAM ,	1,	24,	169,	168,	0,	0
338,	BEAM ,	1,	24,	36,	37,	0,	0
339,	BEAM ,	1,	24,	37,	38,	0,	0
340,	BEAM ,	1,	24,	38,	39,	0,	0
341,	BEAM ,	1,	2,	210,	209,	0,	0
342,	BEAM ,	1,	2,	121,	122,	0,	0
343,	BEAM ,	1,	25,	168,	167,	0,	0
344,	BEAM ,	1,	25,	35,	36,	0,	0
345,	BEAM ,	1,	3,	209,	208,	0,	0
346,	BEAM ,	1,	3,	198,	197,	0,	0
347,	BEAM ,	1,	3,	197,	196,	0,	0
348,	BEAM ,	1,	3,	174,	173,	0,	0
349,	BEAM ,	1,	3,	89,	90,	0,	0
350,	BEAM ,	1,	3,	128,	129,	0,	0
351,	BEAM ,	1,	3,	129,	110,	0,	0
352,	BEAM ,	1,	3,	120,	121,	0,	0
353,	BEAM ,	1,	26,	167,	166,	0,	0
354,	BEAM ,	1,	26,	156,	155,	0,	0
355,	BEAM ,	1,	26,	155,	154,	0,	0
356,	BEAM ,	1,	26,	132,	131,	0,	0
357,	BEAM ,	1,	26,	3,	4,	0,	0
358,	BEAM ,	1,	26,	42,	43,	0,	0
359,	BEAM ,	1,	26,	43,	24,	0,	0
360,	BEAM ,	1,	26,	34,	35,	0,	0
361,	BEAM ,	1,	4,	208,	207,	0,	0
362,	BEAM ,	1,	4,	207,	206,	0,	0
363,	BEAM ,	1,	4,	173,	172,	0,	0
364,	BEAM ,	1,	4,	172,	87,	0,	0
365,	BEAM ,	1,	4,	87,	88,	0,	0
366,	BEAM ,	1,	4,	88,	89,	0,	0
367,	BEAM ,	1,	4,	118,	119,	0,	0
368,	BEAM ,	1,	4,	119,	120,	0,	0
369,	BEAM ,	1,	27,	166,	165,	0,	0
370,	BEAM ,	1,	27,	165,	164,	0,	0
371,	BEAM ,	1,	27,	131,	130,	0,	0
372,	BEAM ,	1,	27,	130,	1,	0,	0
373,	BEAM ,	1,	27,	1,	2,	0,	0
374,	BEAM ,	1,	27,	2,	3,	0,	0
375,	BEAM ,	1,	27,	32,	33,	0,	0
376,	BEAM ,	1,	27,	33,	34,	0,	0
377,	BEAM ,	1,	5,	206,	205,	0,	0
378,	BEAM ,	1,	5,	117,	118,	0,	0
379,	BEAM ,	1,	28,	164,	163,	0,	0
380,	BEAM ,	1,	28,	31,	32,	0,	0
381,	BEAM ,	1,	6,	205,	204,	0,	0
382,	BEAM ,	1,	6,	204,	203,	0,	0
383,	BEAM ,	1,	6,	115,	116,	0,	0
384,	BEAM ,	1,	6,	116,	117,	0,	0
385,	BEAM ,	1,	29,	163,	162,	0,	0
386,	BEAM ,	1,	29,	162,	161,	0,	0
387,	BEAM ,	1,	29,	29,	30,	0,	0
388,	BEAM ,	1,	29,	30,	31,	0,	0
389,	BEAM ,	1,	7,	203,	202,	0,	0
390,	BEAM ,	1,	7,	202,	257,	0,	0
391,	BEAM ,	1,	7,	257,	201,	0,	0
392,	BEAM ,	1,	7,	201,	200,	0,	0
393,	BEAM ,	1,	7,	200,	199,	0,	0
394,	BEAM ,	1,	7,	111,	112,	0,	0
395,	BEAM ,	1,	7,	112,	113,	0,	0
396,	BEAM ,	1,	7,	113,	260,	0,	0
397,	BEAM ,	1,	7,	260,	114,	0,	0
398,	BEAM ,	1,	7,	114,	115,	0,	0
399,	BEAM ,	1,	30,	161,	160,	0,	0
400,	BEAM ,	1,	30,	160,	256,	0,	0
401,	BEAM ,	1,	30,	256,	159,	0,	0
402,	BEAM ,	1,	30,	159,	158,	0,	0
403,	BEAM ,	1,	30,	158,	157,	0,	0
404,	BEAM ,	1,	30,	25,	26,	0,	0
405,	BEAM ,	1,	30,	26,	27,	0,	0
406,	BEAM ,	1,	30,	27,	259,	0,	0
407,	BEAM ,	1,	30,	259,	28,	0,	0
408,	BEAM ,	1,	30,	28,	29,	0,	0
409,	BEAM ,	1,	8,	199,	198,	0,	0
410,	BEAM ,	1,	8,	110,	111,	0,	0
411,	BEAM ,	1,	31,	157,	156,	0,	0
412,	BEAM ,	1,	31,	24,	25,	0,	0
413,	BEAM ,	1,	9,	196,	195,	0,	0
414,	BEAM ,	1,	9,	175,	174,	0,	0
415,	BEAM ,	1,	9,	90,	91,	0,	0
416,	BEAM ,	1,	9,	127,	128,	0,	0
417,	BEAM ,	1,	32,	154,	153,	0,	0
418,	BEAM ,	1,	32,	133,	132,	0,	0
419,	BEAM ,	1,	32,	4,	5,	0,	0
420,	BEAM ,	1,	32,	41,	42,	0,	0
421,	BEAM ,	1,	10,	195,	194,	0,	0
422,	BEAM ,	1,	10,	126,	127,	0,	0
423,	BEAM ,	1,	33,	153,	152,	0,	0
424,	BEAM ,	1,	33,	40,	41,	0,	0
425,	BEAM ,	1,	11,	194,	193,	0,	0
426,	BEAM ,	1,	11,	193,	192,	0,	0
427,	BEAM ,	1,	11,	192,	191,	0,	0
428,	BEAM ,	1,	11,	178,	177,	0,	0
429,	BEAM ,	1,	11,	177,	176,	0,	0
430,	BEAM ,	1,	11,	92,	93,	0,	0
431,	BEAM ,	1,	11,	93,	94,	0,	0
432,	BEAM ,	1,	11,	107,	108,	0,	0
433,	BEAM ,	1,	11,	108,	109,	0,	0
434,	BEAM ,	1,	11,	109,	126,	0,	0
435,	BEAM ,	1,	34,	152,	151,	0,	0
436,	BEAM ,	1,	34,	151,	150,	0,	0
437,	BEAM ,	1,	34,	150,	149,	0,	0
438,	BEAM ,	1,	34,	136,	135,	0,	0
439,	BEAM ,	1,	34,	135,	134,	0,	0
440,	BEAM ,	1,	34,	6,	7,	0,	0
441,	BEAM ,	1,	34,	7,	8,	0,	0
442,	BEAM ,	1,	34,	21,	22,	0,	0
443,	BEAM ,	1,	34,	22,	23,	0,	0
444,	BEAM ,	1,	34,	23,	40,	0,	0
447,	BEAM ,	1,	12,	191,	190,	0,	0
448,	BEAM ,	1,	12,	106,	107,	0,	0
449,	BEAM ,	1,	35,	149,	148,	0,	0
450,	BEAM ,	1,	35,	20,	21,	0,	0
451,	BEAM ,	1,	13,	190,	189,	0,	0
452,	BEAM ,	1,	13,	180,	179,	0,	0
453,	BEAM ,	1,	13,	95,	96,	0,	0
454,	BEAM ,	1,	13,	105,	106,	0,	0
455,	BEAM ,	1,	36,	148,	147,	0,	0
456,	BEAM ,	1,	36,	138,	137,	0,	0
457,	BEAM ,	1,	36,	9,	10,	0,	0
458,	BEAM ,	1,	36,	19,	20,	0,	0
459,	BEAM ,	1,	14,	189,	188,	0,	0
460,	BEAM ,	1,	14,	181,	180,	0,	0
461,	BEAM ,	1,	14,	96,	97,	0,	0
462,	BEAM ,	1,	14,	104,	105,	0,	0
463,	BEAM ,	1,	37,	147,	146,	0,	0
464,	BEAM ,	1,	37,	139,	138,	0,	0
465,	BEAM ,	1,	37,	10,	11,	0,	0
466,	BEAM ,	1,	37,	18,	19,	0,	0
467,	BEAM ,	1,	15,	188,	187,	0,	0

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    468, BEAM  ,    1,   15,  103,  104,    0,    0
    469, BEAM  ,    1,   38,  146,  145,    0,    0
    470, BEAM  ,    1,   38,   17,   18,    0,    0
    471, BEAM  ,    1,   16,  187,  186,    0,    0
    472, BEAM  ,    1,   16,  186,  185,    0,    0
    473, BEAM  ,    1,   16,  101,  102,    0,    0
    474, BEAM  ,    1,   16,  102,  103,    0,    0
    475, BEAM  ,    1,   39,  145,  144,    0,    0
    476, BEAM  ,    1,   39,  144,  143,    0,    0
    477, BEAM  ,    1,   39,   15,   16,    0,    0
    478, BEAM  ,    1,   39,   16,   17,    0,    0
    479, BEAM  ,    1,   17,  185,  184,    0,    0
    480, BEAM  ,    1,   17,  184,  183,    0,    0
    481, BEAM  ,    1,   17,  183,  182,    0,    0
    482, BEAM  ,    1,   17,   98,   99,    0,    0
    483, BEAM  ,    1,   17,   99,  100,    0,    0
    484, BEAM  ,    1,   17,  100,  101,    0,    0
    485, BEAM  ,    1,   40,  143,  142,    0,    0
    486, BEAM  ,    1,   40,  142,  141,    0,    0
    487, BEAM  ,    1,   40,  141,  140,    0,    0
    488, BEAM  ,    1,   40,   12,   13,    0,    0
    489, BEAM  ,    1,   40,   13,   14,    0,    0
    490, BEAM  ,    1,   40,   14,   15,    0,    0
    491, BEAM  ,    1,   18,  182,  181,    0,    0
    492, BEAM  ,    1,   18,   97,   98,    0,    0
    493, BEAM  ,    1,   41,  140,  139,    0,    0
    494, BEAM  ,    1,   41,   11,   12,    0,    0
    495, BEAM  ,    1,   19,  179,  178,    0,    0
    496, BEAM  ,    1,   19,   94,   95,    0,    0
    497, BEAM  ,    1,   42,  137,  136,    0,    0
    498, BEAM  ,    1,   42,    8,    9,    0,    0
    499, BEAM  ,    1,   20,  176,  175,    0,    0
    500, BEAM  ,    1,   20,   91,   92,    0,    0
    501, BEAM  ,    1,   43,  134,  133,    0,    0
    502, BEAM  ,    1,   43,    5,    6,    0,    0
*MATERIAL     ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS   ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
    1, STEEL, SM490              , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),              , SM490
    2, STEEL, SM400              , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),              , SM400
*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
*SECTION     ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                    D1,    D2,    [SRC]                       ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2         ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE                ; 1st 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, 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, SHAPE                                     ; 1st line - COMPOSITE-SB
;                Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                             ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2                   ; 3rd line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh         ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                     ; 1st line - COMPOSITE-SI
;                Hw, tw, B, tf1, B2, tf2                                       ; 2nd line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh         ; 3rd line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                     ; 1st line - PSC
;                                    OPT1,    OPT2,    [JOINT]                 ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                     ; 3rd line
;      bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                      ; 4th line
;                                    [SIZE-A]                                  ; 5th line
;                                    [SIZE-B]                                  ; 6th line
;                                    [SIZE-C]                                  ; 7th line
;                                    [SIZE-D]                                  ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    1, COMPOSITE , G1-1              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    2, COMPOSITE , G1-2              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    3, COMPOSITE , G1-3              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    4, COMPOSITE , G1-4              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    5, COMPOSITE , G1-5              , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
```

0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
6, COMPOSITE , G1-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
7, COMPOSITE , G1-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
8, COMPOSITE , G1-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
9, COMPOSITE , G1-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
10, COMPOSITE , G1-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, COMPOSITE , G1-18 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
19, COMPOSITE , G1-19 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
20, COMPOSITE , G1-20 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
21, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
22, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
23, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
24, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
31, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,

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0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-9                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-10               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-11               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-12               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-13               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-14               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-15               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G2-16               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-17               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G2-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   42, COMPOSITE , G2-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   43, COMPOSITE , G2-20               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R,
HE_G, HE_B, bBLEND, FACT
   1, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   2, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   3, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   4, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   5, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   6, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   7, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   8, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   9, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  10, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  11, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  12, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  13, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  14, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  15, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  16, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  17, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  18, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  19, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  20, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  21, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  22, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  23, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  24, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  25, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  26, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  27, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  28, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  29, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  30, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  31, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  32, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  33, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  34, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  35, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  36, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  37, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  38, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  39, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  40, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  41, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  42, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
  43, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
*COMP-GEN-SECT-PSC-DESIGN      ; Composite Section
for PSC Design
; ELEM, (Z1, Z2, Z3, t1, t2, t3, TotT)-I, (Z1, Z2, Z3, t1,
t2, t3, TotT)-J
   1, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   2, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   3, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   4, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   5, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   6, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   7, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   8, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
   9, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  10, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  11, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  12, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  13, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  14, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  15, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  16, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  17, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  18, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  19, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  20, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  24, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  25, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  26, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  27, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  28, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  29, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  30, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  31, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  32, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  33, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  34, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  35, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  36, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  37, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  38, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  39, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  40, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  41, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  42, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
  43, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                        ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                    D1, D2, [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2          ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE                  ; 1st 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, 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, SHAPE
                    ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
                    ; 2nd line
;          N1, N2, Hr, Hr2, tr1, tr2
                    ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE
                    ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2
                    ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE
                    ; 1st line - PSC
;                    OPT1, OPT2, [JOINT]
                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                    [SIZE-A]
                    ; 5th line
;                    [SIZE-B]
                    ; 6th line
;                    [SIZE-C]
                    ; 7th line
;                    [SIZE-D]
                    ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]  : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]  : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
   1, COMPOSITE , G1-1          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   2, COMPOSITE , G1-2          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   3, COMPOSITE , G1-3          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   4, COMPOSITE , G1-4          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   5, COMPOSITE , G1-5          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   6, COMPOSITE , G1-6          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   7, COMPOSITE , G1-7          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   8, COMPOSITE , G1-8          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   9, COMPOSITE , G1-9          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,  6.07, 0.25, 0.05,  7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   10, COMPOSITE , G1-10          , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
```

12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, COMPOSITE , G1-18 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
19, COMPOSITE , G1-19 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
20, COMPOSITE , G1-20 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
21, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
22, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
23, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
24, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.01, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
31, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.022
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
32, COMPOSITE , G2-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
33, COMPOSITE , G2-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
34, COMPOSITE , G2-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
35, COMPOSITE , G2-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
36, COMPOSITE , G2-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,

```
0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-14              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-15              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G2-16              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.032
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-17              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.028, 2.5, 0.1, 0.028
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G2-18              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.018, 2.5, 0.1, 0.028
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   42, COMPOSITE , G2-19              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   43, COMPOSITE , G2-20              , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   자중 , D ,
   슬래브 하중, D ,
   "포장, 방호벽 하중", D ,
   단위모멘트, USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   142, 111000,
   184, 101000,
   14 38 170, 011000,
   100 124 212, 001000,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                ; TYPE=ELEMENT
   128, ELEMENT, 0, 1.3,
   129, ELEMENT, 1.3, 0,
   130, ELEMENT, 0, 1.3,
   131, ELEMENT, 1.3, 0,
   132, ELEMENT, 0, 1.3,
   133, ELEMENT, 1.3, 0,
   134, ELEMENT, 0, 1.3,
   135, ELEMENT, 1.3, 0,
   136, ELEMENT, 0, 1.3,
   137, ELEMENT, 1.3, 0,
   138, ELEMENT, 0, 1.3,
   139, ELEMENT, 1.3, 0,
   140, ELEMENT, 0, 1.3,
   141, ELEMENT, 1.3, 0,
   142, ELEMENT, 0, 1.3,
   143, ELEMENT, 1.3, 0,
   144, ELEMENT, 0, 1.3,
   145, ELEMENT, 1.3, 0,
   146, ELEMENT, 0, 1.3,
   147, ELEMENT, 1.3, 0,
   148, ELEMENT, 0, 1.3,
   149, ELEMENT, 1.3, 0,
   150, ELEMENT, 0, 1.3,
   151, ELEMENT, 1.3, 0,
   152, ELEMENT, 0, 1.3,
   153, ELEMENT, 1.3, 0,
   154, ELEMENT, 0, 1.3,
   155, ELEMENT, 1.3, 0,
   156, ELEMENT, 0, 1.3,
   157, ELEMENT, 1.3, 0,
   158, ELEMENT, 0, 1.3,
   159, ELEMENT, 1.3, 0,
   160, ELEMENT, 0, 1.3,
   161, ELEMENT, 1.3, 0,
   289, ELEMENT, 0, 1.3,
   290, ELEMENT, 1.3, 0,
   291, ELEMENT, 0, 1.3,
   292, ELEMENT, 1.3, 0,
   293, ELEMENT, 0, 1.3,
   294, ELEMENT, 1.3, 0,
   295, ELEMENT, 0, 1.3,
   296, ELEMENT, 1.3, 0,
   297, ELEMENT, 0, 1.3,
   298, ELEMENT, 1.3, 0,
   299, ELEMENT, 0, 1.3,
   300, ELEMENT, 1.3, 0,
   301, ELEMENT, 0, 1.3,
   302, ELEMENT, 1.3, 0,
   303, ELEMENT, 0, 1.3,
   304, ELEMENT, 1.3, 0,
   305, ELEMENT, 0, 1.3,
   306, ELEMENT, 1.3, 0,
   307, ELEMENT, 0, 1.3,
   308, ELEMENT, 1.3, 0,
   309, ELEMENT, 0, 1.3,
   310, ELEMENT, 1.3, 0,
   311, ELEMENT, 0, 1.3,
   312, ELEMENT, 1.3, 0,
   313, ELEMENT, 0, 1.3,
   314, ELEMENT, 1.3, 0,
   315, ELEMENT, 0, 1.3,
   316, ELEMENT, 1.3, 0,
   317, ELEMENT, 0, 1.3,
   318, ELEMENT, 1.3, 0,
   319, ELEMENT, 0, 1.3,
   320, ELEMENT, 1.3, 0,
   321, ELEMENT, 0, 1.3,
   322, ELEMENT, 1.3, 0,
*USE-STLD, 자중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
;    End    of    data    for    load    case    [자중]
-------------------------
*USE-STLD, 슬래브 하중
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
   329, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   329, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   330, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   330, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   331, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   331, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   332, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   332, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   333, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   333, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   334, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   334, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   335, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   335, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   336, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   336, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   337, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   337, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   338, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   338, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   339, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   339, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   340, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   340, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   341, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   341, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   342, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   342, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   343, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   343, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   344, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
   344, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
   345, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   345, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   346, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   346, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   347, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   347, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   348, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
   348, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   349, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
   349, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
419, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
420, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
420, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
421, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
421, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
422, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
422, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
423, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
423, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
424, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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432, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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433, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
435, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
490, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
491, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
491, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
492, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
492, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
493, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
493, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
494, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
494, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
495, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
495, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
496, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
496, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
497, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
497, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
498, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
498, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
499, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
499, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
500, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
500, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
501, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,

501, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
502, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
502, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [슬래브 하중]
---
*USE-STLD, "포장, 방호벽 하중"
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
329, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
329, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
329, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
330, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
330, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
330, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
331, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
331, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
331, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
332, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
332, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
332, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
333, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
334, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
335, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
336, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
337, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
337, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
337, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
338, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
338, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
338, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
339, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
339, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
339, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
340, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
340, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
340, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
341, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
341, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
341, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
342, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
342, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
342, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
343, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
343, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
343, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
344, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
344, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
344, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
345, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
345, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
345, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
346, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
346, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
346, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
347, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
347, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
347, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
348, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
348, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
348, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
349, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
349, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
349, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
350, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
350, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
350, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
351, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
351, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
351, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
352, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
352, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
352, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
353, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
353, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
353, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
354, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
354, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
354, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
355, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
355, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
355, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
356, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
356, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
356, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
357, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
357, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
357, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
358, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
358, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
358, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
359, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
359, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
359, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
360, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
360, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
360, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
361, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
361, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
361, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
362, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
362, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
362, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
363, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
363, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
363, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
364, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
364, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
364, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
365, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
365, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
460, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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462, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [포장, 방호벽 하중]
--------------------------
*USE-STLD, 단위모멘트
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  38, 0, 0, 0, 0, -1, 0,
 124, 0, 0, 0, 0, -1, 0,
 170, 0, 0, 0, 0, 1, 0,
 212, 0, 0, 0, 0, 1, 0,
; End of data for load case [단위모멘트]
--------------------------
*MVLDCODE    ; Moving Load Code
; CODE=CODE
   CODE=KOREA
*LINELANE    ; Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING,
LW, WS, bLANEOPT ; line 1
;           iELEM1, ECC1, FACT1, bSPAN1, ECCVL...
          ; from line 2
   NAME=L1, LANE, , 0, 0, BOTH, 3, 1.8, NO
          329, -0.395, 0.157895, YES, 0,    330, -0.395,
0.157895, NO, 0
          331, -0.395, 0.157895, NO, 0,    341, -0.395,
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*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 ; HA, HA & HB, HA & HB(Auto)
; 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] : nLT, 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, ALP, TPSY, W, BET, 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, bDF, 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, s1_UDL ; 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,
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;                                   bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT            ; standard (N11)
; NAME=NAME, 1, iTYPE, nDYNAFAC, dDYNAFAC,
dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; standard (SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; 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, s1_UDL            ; user (Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC,
dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; user (Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;                                   bFATI, nLOADFAC, dLOADFAC,
                                    ; 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



;                                   bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT ; user (Type 5)
; NAME=NAME, 2, iTYPE, W, D, nDYNAFAC, dDYNAFAC,
bFATI, nLOADFAC, dLOADFAC ; user (Type 6)
; NAME=NAME, 2, iTYPE, P, W, bFATI, nLOADFAC,
dLOADFAC                            ; user (Type 7)
; if Moving Load Code is KSCE-LSD15
; NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC,
CODE                                ; standard
; NAME=NAME, 2, 8, L1, W1, W2, EXP
                                    ; user: line 1 (Type 1)
; NAME=NAME, 2, 1, W1, W2, D1, D2
                                    ; user: line 1 (Type 2)
; NAME=NAME, 2, 6, LOADNUM, DIST, W, L
                                    ; user: line 1 (Type 3)
;                   LOAD1, DIST1, LOAD2, DIST2, ...
                                    ; user: from line 2
; if Moving Load Code is AASHTO LRFD, CANADA and
Load Type is Permit Truck
; NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR
                                    ; user(Permit Truck)
;       AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2,
D2, ..., Pn, Dn                     ; user(from line 2)
;                                                       ...

;       AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2,
D2, ..., Pn, Dn
;           AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2,
SPACING2, bVS2 ...                  ; line 2+AXLE-TYPE-NUM
; if Moving Load Code is not one of those specified
above.
; NAME=NAME, 1, TYPE-NAME, DLA, CODE
                                    ; standard
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2),
PLV(D2), NDIST                      ; user: line 1
;                   LOAD1, DIST1, LOAD2, DIST2, ...
                                    ; user: from line 2
  NAME=DB-24, 1, DB-24, 0, KS-RB
  NAME=DL-24, 1, DL-24, 0, KS-RB
*MVLDCASE   ; Moving Load Cases
; NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3,
SCALE4, SCALE5, SCALE6, COMB, DESC, LCOM, SERIAL
 ; 1st line
;           nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1,
3LFACTOR2, 3LFACTOR3, 3LFACTOR4                 ;
2st line
;       TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11,
LANE12, ...                         ; 3nd line
;                                                       ...
                                    ; ...
;       TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1,
LANEn2, ...                         ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN,
SCALE, DESC                         ;
Permit
  NAME=활하중, NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 1
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DB-24, 1, 1, 3, L1, L2, L3
        VL, DL-24, 1, 1, 3, L1, L2, L3
  NAME=활하중(BD), NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 2
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DB-24, 1, 1, 3, L1, L2, L3
  NAME=활하중(DL), NO, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, , 0, 3
        1, 1, 1, 1, 1, 0.5, 0.25
        VL, DL-24, 1, 1, 3, L1, L2, L3
*SM-GROUP   ; Settlement Group
; GRNAME, DISPLACEMENT, NODE_LIST
  A1, -0.01, 170 212
  P1, -0.01, 142 184
  P2, -0.01, 14 100
  P3, -0.01, 38 124
*SMLDCASE   ; Settlement Load Cases
; NAME=NAME, iSMIN, iSMAX, SCALE, DESC ; line 1
;       GRNAME1, GRNAME2, ...         ; from line 2
  NAME=지점침하, 1, 3, 1,
        A1, P1, P2, P3
*LOADCOMB   ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE   ; line 1
;                   ANAL1, LCNAME1, FACT1, ...
                    ; from line 2
  NAME=합성전, GEN, ACTIVE, 0, 0, , 0, 0
        ST, 자중, 1, ST, 슬래브 하중, 1
  NAME=합성후, GEN, ACTIVE, 0, 0, , 0, 0
        ST, "포장, 방호벽 하중", 1
  NAME=고정하중, GEN, ACTIVE, 0, 0, , 0, 0
        CB, 합성전, 1, CB, 합성후, 1
*LC-COLOR   ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN),
iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)
 ST, 자중, 255, 87, 87, 192, 128, 0, 160, 192, 255
 ST, 슬래브 하중, 0, 128, 255, 163, 255, 160, 85, 0, 192
 ST, "포장, 방호벽 하중", 0, 192, 192, 0, 128, 192, 255,
128, 0
 ST, 단위모멘트, 93, 255, 87, 160, 192, 255, 148, 87,
255
 MV, 활하중, 0, 192, 128, 0, 128, 192, 0, 192, 192
 CB, 합성전, 255, 0, 128, 255, 192, 87, 255, 255, 87
 CB, 합성후, 0, 192, 128, 85, 0, 192, 255, 192, 87
 SM, 지점침하, 0, 128, 57, 192, 128, 0, 192, 72, 0
 MV, 활하중(BD), 255, 0, 128, 146, 0, 255, 0, 192, 192
 MV, 활하중(DL), 212, 160, 255, 192, 192, 192, 255, 192,
87
 CB, 고정하중, 255, 192, 87, 0, 157, 192, 255, 87, 87
*DGN-MATL   ; Modify Steel(Concrete) Material
;       iMAT,       TYPE,       MNAME,       [DATA1]
                    ; STEEL
; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV,
SHORT, LONG ; CONC
; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]
                    ; SRC
;       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
; [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1,
FY2, FY3, FY4
;                   FY5, FY6, AFT, AFT2, AFT3, FY, AFV,
AFV2, AFV3
; [DATA4] : 1, DB, CODE, NAME or 2, FC
; [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5,
AL6, AL7, AL8, AL9, AL10
;                   MIN1, MIN2, MIN3
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
    1, STEEL, SM490                 , 1, KS10-Civil(S),
      ,SM490          , 1, KS01-Civil(RC),            ,
          , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,
    2, STEEL, SM400                 , 1, KS10-Civil(S),
      ,SM400          , 1, KS01-Civil(RC),            ,
          , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0,
0,0, 0, 0,0, 0, 0,0, 0, 0,
*SECTION MANAGER-GROUP & PART       ; Section
Manager - Group & Part
;       SECT        =       NO,         bSAMEJ
                    ; line 1
;       GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE
                    ; line 2
; ...............................................   ;

;               LOOP UTIL (GRPDISIZE, GRPDJSIZE)
                    ;
;               GROUPID, GROUPNAME, GROUPTYPE
                    ; line n
; ...............................................   ;

;               LOOP UTIL (PARTISIZE, PARTJSIZE)
                    ;
;       PARTTYPE, GROUPID, PARTNAME, PARTSHAPE,
bSTIFFENER                          ; line n
;                   LINESIZE, LINEINDEX[i].....
                    ; line n
; ...............................................   ;

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  SECT=4, YES
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  SECT=5, YES
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  SECT=6, YES
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  SECT=7, YES
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  SECT=42, YES
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  SECT=43, YES
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*SECTION MANAGER-STIFFENER      ; Section Manager -
Stiffener
;          SECT          =          NO,          bSAMEJ
                          ; line 1
;                                STFNISIZE,    STFNJSIZE
                          ; line 2
; ..................................................................   ;

;                   LOOP  UTIL  (STFNISIZE,  STFNJSIZE)
                          ;
;           TYPE, Z, STANDREF, POSLINE, STANDREFL,
NUM, CTC                          ; line n
;                         STIFFTYPE,   dSIZE(0   ~   20)
                          ; line n
;                            LINESIZE,    LINEINDEX[i].....
                        ; line n
; ..................................................................   ;

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   SECT=3, YES
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   SECT=4, YES
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*ENDDATA
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■ 남천교 부산방향(S4~S7) 상부 input

```
;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;------------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT     : Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, KCAL, C
*REBAR-MATL-CODE     ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE     ; Nodes
; iNO, X, Y, Z
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      4, 5.625, 0, 0
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      7, 16.775, 0, 0
      8, 16.785, 0, 0
      9, 20, 0, 0
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     28, 64.375, 0, 0
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     36, 76.975, 0, 0
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     44, 104.6, 0, 0
     45, 104.7, 0, 0
     46, 105.2, 0, 0
     47, 109.7, 0, 0
     48, 110.15, 0, 0
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     52, 5.625, 3.9, 0
     53, 10, 3.9, 0
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     63, 40, 3.9, 0
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     73, 60.625, 3.9, 0
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    154, -16.785, 7.8, 0
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303, -27.5, 3.9, 0
*ELEMENT    ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS    ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8    ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
  2, BEAM  ,  1,  4,  98,  99,  0,  0
  3, BEAM  ,  1,  8,  99, 100,  0,  0
  4, BEAM  ,  1,  7,  99, 100,  0,  0
  5, BEAM  ,  1,  7, 100, 101,  0,  0
  6, BEAM  ,  1,  7, 101, 102,  0,  0
  7, BEAM  ,  1,  7, 102, 103,  0,  0
  8, BEAM  ,  1,  7, 103, 104,  0,  0
  9, BEAM  ,  1,  6, 103, 104,  0,  0
 10, BEAM  ,  1,  6, 104, 147,  0,  0
 11, BEAM  ,  1,  3, 147, 105,  0,  0
 12, BEAM  ,  1,  3, 105, 106,  0,  0
 13, BEAM  ,  1,  3, 106, 298,  0,  0
 14, BEAM  ,  1,  3, 107, 108,  0,  0
 15, BEAM  ,  1, 17, 108, 109,  0,  0
 16, BEAM  ,  1, 16, 109, 110,  0,  0
 17, BEAM  ,  1,  8, 110, 111,  0,  0
 18, BEAM  ,  1,  8, 111, 112,  0,  0
 19, BEAM  ,  1, 15, 112, 113,  0,  0
 20, BEAM  ,  1,  9, 113, 114,  0,  0
 21, BEAM  ,  1, 10, 114, 115,  0,  0
 22, BEAM  ,  1, 13, 115, 116,  0,  0
 23, BEAM  ,  1, 12, 116, 117,  0,  0
 24, BEAM  ,  1, 12, 117, 118,  0,  0
 25, BEAM  ,  1, 12, 118, 119,  0,  0
 26, BEAM  ,  1, 12, 119, 120,  0,  0
 27, BEAM  ,  1, 11, 120, 121,  0,  0
 28, BEAM  ,  1, 10, 121, 122,  0,  0
 29, BEAM  ,  1,  9, 122, 123,  0,  0
 30, BEAM  ,  1,  8, 123, 124,  0,  0
 31, BEAM  ,  1,  7, 124, 125,  0,  0
 32, BEAM  ,  1,  7, 125, 126,  0,  0
 33, BEAM  ,  1,  7, 126, 127,  0,  0
 34, BEAM  ,  1,  6, 127, 128,  0,  0
 35, BEAM  ,  1, 39, 128, 129,  0,  0
 36, BEAM  ,  1,  3, 129, 130,  0,  0
 37, BEAM  ,  1,  3, 130, 131,  0,  0
 38, BEAM  ,  1, 41, 131, 132,  0,  0
 39, BEAM  ,  1,  5, 132, 133,  0,  0
 40, BEAM  ,  1,  5, 133, 134,  0,  0
 41, BEAM  ,  1,  5, 134, 295,  0,  0
 42, BEAM  ,  1,  5, 135, 136,  0,  0
 43, BEAM  ,  1,  5, 136, 137,  0,  0
 44, BEAM  ,  1,  4, 137, 138,  0,  0
 45, BEAM  ,  1,  3, 138, 139,  0,  0
 46, BEAM  ,  1,  3, 139, 140,  0,  0
 47, BEAM  ,  1,  2, 140, 141,  0,  0
 48, BEAM  ,  1,  1, 141, 142,  0,  0
 49, BEAM  ,  1,  1, 142, 143,  0,  0
 50, BEAM  ,  1,  1, 143, 144,  0,  0
 51, BEAM  ,  1, 14,  97,  98,  0,  0
 52, BEAM  ,  1, 34,   1,   2,  0,  0
 53, BEAM  ,  1, 24,   2,   3,  0,  0
 54, BEAM  ,  1, 28,   3,   4,  0,  0
 55, BEAM  ,  1, 27,   4,   5,  0,  0
 56, BEAM  ,  1, 27,   5,   6,  0,  0
 57, BEAM  ,  1, 27,   6,   7,  0,  0
 58, BEAM  ,  1, 26,   7,   8,  0,  0
 59, BEAM  ,  1, 26,   8, 145,  0,  0
 60, BEAM  ,  1, 23, 145,   9,  0,  0
 61, BEAM  ,  1, 23,   9,  10,  0,  0
 62, BEAM  ,  1, 23,  10, 299,  0,  0
 63, BEAM  ,  1, 23,  11,  12,  0,  0
 64, BEAM  ,  1, 37,  12,  13,  0,  0
 65, BEAM  ,  1, 36,  13,  14,  0,  0
 66, BEAM  ,  1, 28,  14,  15,  0,  0
 67, BEAM  ,  1, 28,  15,  16,  0,  0
 68, BEAM  ,  1, 35,  16,  17,  0,  0
 69, BEAM  ,  1, 29,  17,  18,  0,  0
 70, BEAM  ,  1, 30,  18,  19,  0,  0
 71, BEAM  ,  1, 33,  19,  20,  0,  0
 72, BEAM  ,  1, 32,  20,  21,  0,  0
 73, BEAM  ,  1, 32,  21,  22,  0,  0
 74, BEAM  ,  1, 32,  22,  23,  0,  0
 75, BEAM  ,  1, 32,  23,  24,  0,  0
 76, BEAM  ,  1, 31,  24,  25,  0,  0
 77, BEAM  ,  1, 30,  25,  26,  0,  0
 78, BEAM  ,  1, 29,  26,  27,  0,  0
 79, BEAM  ,  1, 28,  27,  28,  0,  0
 80, BEAM  ,  1, 27,  28,  29,  0,  0
 81, BEAM  ,  1, 27,  29,  30,  0,  0
 82, BEAM  ,  1, 27,  30,  31,  0,  0
 83, BEAM  ,  1, 26,  31,  32,  0,  0
 84, BEAM  ,  1, 38,  32,  33,  0,  0
 85, BEAM  ,  1, 23,  33,  34,  0,  0
 86, BEAM  ,  1, 23,  34,  35,  0,  0
 87, BEAM  ,  1, 40,  35,  36,  0,  0
 88, BEAM  ,  1, 25,  36,  37,  0,  0
 89, BEAM  ,  1, 25,  37,  38,  0,  0
 90, BEAM  ,  1, 25,  38, 296,  0,  0
 91, BEAM  ,  1, 25,  39,  40,  0,  0
 92, BEAM  ,  1, 25,  40,  41,  0,  0
 93, BEAM  ,  1, 24,  41,  42,  0,  0
 94, BEAM  ,  1, 23,  42,  43,  0,  0
 95, BEAM  ,  1, 23,  43,  44,  0,  0
 96, BEAM  ,  1, 22,  44,  45,  0,  0
 97, BEAM  ,  1, 21,  45,  46,  0,  0
 98, BEAM  ,  1, 21,  46,  47,  0,  0
 99, BEAM  ,  1, 21,  47,  48,  0,  0
100, BEAM  ,  2, 20,  49,  50,  0,  0
101, BEAM  ,  2, 20,  50,  51,  0,  0
102, BEAM  ,  2, 20,  51,  52,  0,  0
103, BEAM  ,  2, 20,  52,  53,  0,  0
104, BEAM  ,  2, 20,  53,  54,  0,  0
105, BEAM  ,  2, 20,  54,  55,  0,  0
106, BEAM  ,  2, 20,  55,  56,  0,  0
107, BEAM  ,  2, 20,  56, 146,  0,  0
108, BEAM  ,  2, 20, 146,  57,  0,  0
109, BEAM  ,  2, 20,  57,  58,  0,  0
110, BEAM  ,  2, 20,  58, 300,  0,  0
111, BEAM  ,  2, 20,  59,  60,  0,  0
112, BEAM  ,  2, 20,  60,  61,  0,  0
113, BEAM  ,  2, 20,  61,  62,  0,  0
114, BEAM  ,  2, 20,  62,  63,  0,  0
115, BEAM  ,  2, 20,  63,  64,  0,  0
116, BEAM  ,  2, 20,  64,  65,  0,  0
117, BEAM  ,  2, 20,  65,  66,  0,  0
118, BEAM  ,  2, 20,  66,  67,  0,  0
119, BEAM  ,  2, 20,  67,  68,  0,  0
120, BEAM  ,  2, 20,  68,  69,  0,  0
121, BEAM  ,  2, 20,  69,  70,  0,  0
122, BEAM  ,  2, 20,  70,  71,  0,  0
123, BEAM  ,  2, 20,  71,  72,  0,  0
124, BEAM  ,  2, 20,  72,  73,  0,  0
125, BEAM  ,  2, 20,  73,  74,  0,  0
126, BEAM  ,  2, 20,  74,  75,  0,  0
127, BEAM  ,  2, 20,  75,  76,  0,  0
128, BEAM  ,  2, 20,  76,  77,  0,  0
129, BEAM  ,  2, 20,  77,  78,  0,  0
130, BEAM  ,  2, 20,  78,  79,  0,  0
131, BEAM  ,  2, 20,  79,  80,  0,  0
132, BEAM  ,  2, 20,  80,  81,  0,  0
133, BEAM  ,  2, 20,  81,  82,  0,  0
134, BEAM  ,  2, 20,  82,  83,  0,  0
135, BEAM  ,  2, 20,  83,  84,  0,  0
136, BEAM  ,  2, 20,  84,  85,  0,  0
137, BEAM  ,  2, 20,  85,  86,  0,  0
138, BEAM  ,  2, 20,  86, 297,  0,  0
139, BEAM  ,  2, 20,  87,  88,  0,  0
140, BEAM  ,  2, 20,  88,  89,  0,  0
141, BEAM  ,  2, 20,  89,  90,  0,  0
142, BEAM  ,  2, 20,  90,  91,  0,  0
143, BEAM  ,  2, 20,  91,  92,  0,  0
144, BEAM  ,  2, 20,  92,  93,  0,  0
145, BEAM  ,  2, 20,  93,  94,  0,  0
146, BEAM  ,  2, 20,  94,  95,  0,  0
147, BEAM  ,  2, 20,  95,  96,  0,  0
148, BEAM  ,  2, 19,  47,  95,  0,  0
149, BEAM  ,  2, 19,  95, 143,  0,  0
150, BEAM  ,  2, 19,  22,  70,  0,  0
151, BEAM  ,  2, 19,  70, 118,  0,  0
152, BEAM  ,  2, 19,   1,  49,  0,  0
153, BEAM  ,  2, 19,  49,  97,  0,  0
154, BEAM  ,  2, 18,   2,  50,  0,  0
155, BEAM  ,  2, 18,  50,  98,  0,  0
156, BEAM  ,  2, 18,   5,  53,  0,  0
157, BEAM  ,  2, 18,  53, 101,  0,  0
158, BEAM  ,  2, 18,   6,  54,  0,  0
159, BEAM  ,  2, 18,  54, 102,  0,  0
160, BEAM  ,  2, 18,   9,  57,  0,  0
161, BEAM  ,  2, 18,  57, 105,  0,  0
162, BEAM  ,  2, 18,  10,  58,  0,  0
163, BEAM  ,  2, 18,  58, 106,  0,  0
164, BEAM  ,  2, 18,  11,  59,  0,  0
165, BEAM  ,  2, 18,  59, 107,  0,  0
166, BEAM  ,  2, 18,  14,  62,  0,  0
167, BEAM  ,  2, 18,  62, 110,  0,  0
168, BEAM  ,  2, 18,  15,  63,  0,  0
169, BEAM  ,  2, 18,  63, 111,  0,  0
170, BEAM  ,  2, 18,  18,  66,  0,  0
171, BEAM  ,  2, 18,  66, 114,  0,  0
172, BEAM  ,  2, 18,  21,  69,  0,  0
173, BEAM  ,  2, 18,  69, 117,  0,  0
174, BEAM  ,  2, 18,  23,  71,  0,  0
175, BEAM  ,  2, 18,  71, 119,  0,  0
176, BEAM  ,  2, 18,  29,  77,  0,  0
177, BEAM  ,  2, 18,  77, 125,  0,  0
178, BEAM  ,  2, 18,  30,  78,  0,  0
179, BEAM  ,  2, 18,  78, 126,  0,  0
180, BEAM  ,  2, 18,  34,  82,  0,  0
181, BEAM  ,  2, 18,  82, 130,  0,  0
182, BEAM  ,  2, 18,  37,  85,  0,  0
183, BEAM  ,  2, 18,  85, 133,  0,  0
184, BEAM  ,  2, 18,  38,  86,  0,  0
185, BEAM  ,  2, 18,  86, 134,  0,  0
186, BEAM  ,  2, 18,  39,  87,  0,  0
187, BEAM  ,  2, 18,  87, 135,  0,  0
188, BEAM  ,  2, 18,  40,  88,  0,  0
189, BEAM  ,  2, 18,  88, 136,  0,  0
190, BEAM  ,  2, 18,  43,  91,  0,  0
191, BEAM  ,  2, 18,  91, 139,  0,  0
192, BEAM  ,  2, 18,  46,  94,  0,  0
193, BEAM  ,  2, 18,  94, 142,  0,  0
194, BEAM  ,  1,  4, 148, 149,  0,  0
195, BEAM  ,  1,  8, 149, 150,  0,  0
196, BEAM  ,  1,  7, 149, 150,  0,  0
197, BEAM  ,  1,  7, 150, 151,  0,  0
198, BEAM  ,  1,  7, 151, 152,  0,  0
199, BEAM  ,  1,  7, 152, 153,  0,  0
200, BEAM  ,  1,  7, 153, 154,  0,  0
201, BEAM  ,  1,  6, 153, 154,  0,  0
202, BEAM  ,  1,  6, 154, 155,  0,  0
203, BEAM  ,  1,  3, 155, 156,  0,  0
204, BEAM  ,  1,  3, 156, 157,  0,  0
205, BEAM  ,  1,  3, 157, 301,  0,  0
206, BEAM  ,  1,  3, 158, 159,  0,  0
207, BEAM  ,  1, 17, 159, 160,  0,  0
208, BEAM  ,  1, 16, 160, 161,  0,  0
209, BEAM  ,  1,  8, 161, 162,  0,  0
210, BEAM  ,  1,  8, 162, 163,  0,  0
211, BEAM  ,  1, 15, 163, 164,  0,  0
212, BEAM  ,  1,  9, 164, 165,  0,  0
213, BEAM  ,  1, 10, 165, 166,  0,  0
214, BEAM  ,  1, 13, 166, 167,  0,  0
215, BEAM  ,  1, 12, 167, 168,  0,  0
216, BEAM  ,  1, 12, 168, 169,  0,  0
217, BEAM  ,  1, 12, 169, 170,  0,  0
218, BEAM  ,  1, 12, 170, 171,  0,  0
219, BEAM  ,  1, 11, 171, 172,  0,  0
220, BEAM  ,  1, 10, 172, 173,  0,  0
221, BEAM  ,  1,  9, 173, 174,  0,  0
222, BEAM  ,  1,  8, 174, 175,  0,  0
223, BEAM  ,  1,  7, 175, 176,  0,  0
224, BEAM  ,  1,  7, 176, 177,  0,  0
225, BEAM  ,  1,  7, 177, 178,  0,  0
226, BEAM  ,  1,  6, 178, 179,  0,  0
227, BEAM  ,  1, 39, 179, 180,  0,  0
228, BEAM  ,  1,  3, 180, 181,  0,  0
229, BEAM  ,  1,  3, 181, 182,  0,  0
230, BEAM  ,  1, 41, 182, 183,  0,  0
231, BEAM  ,  1,  5, 183, 184,  0,  0
232, BEAM  ,  1,  5, 184, 185,  0,  0
233, BEAM  ,  1,  5, 185, 292,  0,  0
234, BEAM  ,  1,  5, 186, 187,  0,  0
235, BEAM  ,  1,  5, 187, 188,  0,  0
236, BEAM  ,  1,  4, 188, 189,  0,  0
237, BEAM  ,  1,  3, 189, 190,  0,  0
238, BEAM  ,  1,  3, 190, 191,  0,  0
239, BEAM  ,  1,  2, 191, 192,  0,  0
240, BEAM  ,  1,  1, 192, 193,  0,  0
241, BEAM  ,  1,  1, 193, 194,  0,  0
242, BEAM  ,  1,  1, 194, 195,  0,  0
243, BEAM  ,  1, 14,  97, 148,  0,  0
244, BEAM  ,  1, 34,   1, 196,  0,  0
245, BEAM  ,  1, 24, 196, 197,  0,  0
246, BEAM  ,  1, 28, 197, 198,  0,  0
247, BEAM  ,  1, 27, 198, 199,  0,  0
248, BEAM  ,  1, 27, 199, 200,  0,  0
249, BEAM  ,  1, 27, 200, 201,  0,  0
250, BEAM  ,  1, 26, 201, 202,  0,  0
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251, BEAM  ,    1,   26,  202,  203,    0,    0
252, BEAM  ,    1,   23,  203,  204,    0,    0
253, BEAM  ,    1,   23,  204,  205,    0,    0
254, BEAM  ,    1,   23,  205,  302,    0,    0
255, BEAM  ,    1,   23,  206,  207,    0,    0
256, BEAM  ,    1,   37,  207,  208,    0,    0
257, BEAM  ,    1,   36,  208,  209,    0,    0
258, BEAM  ,    1,   28,  209,  210,    0,    0
259, BEAM  ,    1,   28,  210,  211,    0,    0
260, BEAM  ,    1,   35,  211,  212,    0,    0
261, BEAM  ,    1,   29,  212,  213,    0,    0
262, BEAM  ,    1,   30,  213,  214,    0,    0
263, BEAM  ,    1,   33,  214,  215,    0,    0
264, BEAM  ,    1,   32,  215,  216,    0,    0
265, BEAM  ,    1,   32,  216,  217,    0,    0
266, BEAM  ,    1,   32,  217,  218,    0,    0
267, BEAM  ,    1,   32,  218,  219,    0,    0
268, BEAM  ,    1,   31,  219,  220,    0,    0
269, BEAM  ,    1,   30,  220,  221,    0,    0
270, BEAM  ,    1,   29,  221,  222,    0,    0
271, BEAM  ,    1,   28,  222,  223,    0,    0
272, BEAM  ,    1,   27,  223,  224,    0,    0
273, BEAM  ,    1,   27,  224,  225,    0,    0
274, BEAM  ,    1,   27,  225,  226,    0,    0
275, BEAM  ,    1,   26,  226,  227,    0,    0
276, BEAM  ,    1,   38,  227,  228,    0,    0
277, BEAM  ,    1,   23,  228,  229,    0,    0
278, BEAM  ,    1,   23,  229,  230,    0,    0
279, BEAM  ,    1,   40,  230,  231,    0,    0
280, BEAM  ,    1,   25,  231,  232,    0,    0
281, BEAM  ,    1,   25,  232,  233,    0,    0
282, BEAM  ,    1,   25,  233,  293,    0,    0
283, BEAM  ,    1,   25,  234,  235,    0,    0
284, BEAM  ,    1,   25,  235,  236,    0,    0
285, BEAM  ,    1,   24,  236,  237,    0,    0
286, BEAM  ,    1,   23,  237,  238,    0,    0
287, BEAM  ,    1,   23,  238,  239,    0,    0
288, BEAM  ,    1,   22,  239,  240,    0,    0
289, BEAM  ,    1,   21,  240,  241,    0,    0
290, BEAM  ,    1,   21,  241,  242,    0,    0
291, BEAM  ,    1,   21,  242,  243,    0,    0
292, BEAM  ,    2,   20,   49,  244,    0,    0
293, BEAM  ,    2,   20,  244,  245,    0,    0
294, BEAM  ,    2,   20,  245,  246,    0,    0
295, BEAM  ,    2,   20,  246,  247,    0,    0
296, BEAM  ,    2,   20,  247,  248,    0,    0
297, BEAM  ,    2,   20,  248,  249,    0,    0
298, BEAM  ,    2,   20,  249,  250,    0,    0
299, BEAM  ,    2,   20,  250,  251,    0,    0
300, BEAM  ,    2,   20,  251,  252,    0,    0
301, BEAM  ,    2,   20,  252,  253,    0,    0
302, BEAM  ,    2,   20,  253,  303,    0,    0
303, BEAM  ,    2,   20,  254,  255,    0,    0
304, BEAM  ,    2,   20,  255,  256,    0,    0
305, BEAM  ,    2,   20,  256,  257,    0,    0
306, BEAM  ,    2,   20,  257,  258,    0,    0
307, BEAM  ,    2,   20,  258,  259,    0,    0
308, BEAM  ,    2,   20,  259,  260,    0,    0
309, BEAM  ,    2,   20,  260,  261,    0,    0
310, BEAM  ,    2,   20,  261,  262,    0,    0
311, BEAM  ,    2,   20,  262,  263,    0,    0
312, BEAM  ,    2,   20,  263,  264,    0,    0
313, BEAM  ,    2,   20,  264,  265,    0,    0
314, BEAM  ,    2,   20,  265,  266,    0,    0
315, BEAM  ,    2,   20,  266,  267,    0,    0
316, BEAM  ,    2,   20,  267,  268,    0,    0
317, BEAM  ,    2,   20,  268,  269,    0,    0
318, BEAM  ,    2,   20,  269,  270,    0,    0
319, BEAM  ,    2,   20,  270,  271,    0,    0
320, BEAM  ,    2,   20,  271,  272,    0,    0
321, BEAM  ,    2,   20,  272,  273,    0,    0
322, BEAM  ,    2,   20,  273,  274,    0,    0
323, BEAM  ,    2,   20,  274,  275,    0,    0
324, BEAM  ,    2,   20,  275,  276,    0,    0
325, BEAM  ,    2,   20,  276,  277,    0,    0
326, BEAM  ,    2,   20,  277,  278,    0,    0
327, BEAM  ,    2,   20,  278,  279,    0,    0
328, BEAM  ,    2,   20,  279,  280,    0,    0
329, BEAM  ,    2,   20,  280,  281,    0,    0
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331, BEAM  ,    2,   20,  282,  283,    0,    0
332, BEAM  ,    2,   20,  283,  284,    0,    0
333, BEAM  ,    2,   20,  284,  285,    0,    0
334, BEAM  ,    2,   20,  285,  286,    0,    0
335, BEAM  ,    2,   20,  286,  287,    0,    0
336, BEAM  ,    2,   20,  287,  288,    0,    0
337, BEAM  ,    2,   20,  288,  289,    0,    0
338, BEAM  ,    2,   20,  289,  290,    0,    0
339, BEAM  ,    2,   20,  290,  291,    0,    0
340, BEAM  ,    2,   19,  242,  290,    0,    0
341, BEAM  ,    2,   19,  290,  194,    0,    0
342, BEAM  ,    2,   19,  217,  265,    0,    0
343, BEAM  ,    2,   19,  265,  169,    0,    0
344, BEAM  ,    2,   18,  196,  244,    0,    0
345, BEAM  ,    2,   18,  244,  148,    0,    0
346, BEAM  ,    2,   18,  199,  247,    0,    0
347, BEAM  ,    2,   18,  247,  151,    0,    0
348, BEAM  ,    2,   18,  200,  248,    0,    0
349, BEAM  ,    2,   18,  248,  152,    0,    0
350, BEAM  ,    2,   18,  204,  252,    0,    0
351, BEAM  ,    2,   18,  252,  156,    0,    0
352, BEAM  ,    2,   18,  205,  253,    0,    0
353, BEAM  ,    2,   18,  253,  157,    0,    0
354, BEAM  ,    2,   18,  206,  254,    0,    0
355, BEAM  ,    2,   18,  254,  158,    0,    0
356, BEAM  ,    2,   18,  209,  257,    0,    0
357, BEAM  ,    2,   18,  257,  161,    0,    0
358, BEAM  ,    2,   18,  210,  258,    0,    0
359, BEAM  ,    2,   18,  258,  162,    0,    0
360, BEAM  ,    2,   18,  213,  261,    0,    0
361, BEAM  ,    2,   18,  261,  165,    0,    0
362, BEAM  ,    2,   18,  216,  264,    0,    0
363, BEAM  ,    2,   18,  264,  168,    0,    0
364, BEAM  ,    2,   18,  218,  266,    0,    0
365, BEAM  ,    2,   18,  266,  170,    0,    0
366, BEAM  ,    2,   18,  224,  272,    0,    0
367, BEAM  ,    2,   18,  272,  176,    0,    0
368, BEAM  ,    2,   18,  225,  273,    0,    0
369, BEAM  ,    2,   18,  273,  177,    0,    0
370, BEAM  ,    2,   18,  229,  277,    0,    0
371, BEAM  ,    2,   18,  277,  181,    0,    0
372, BEAM  ,    2,   18,  232,  280,    0,    0
373, BEAM  ,    2,   18,  280,  184,    0,    0
374, BEAM  ,    2,   18,  233,  281,    0,    0
375, BEAM  ,    2,   18,  281,  185,    0,    0
376, BEAM  ,    2,   18,  234,  282,    0,    0
377, BEAM  ,    2,   18,  282,  186,    0,    0
378, BEAM  ,    2,   18,  235,  283,    0,    0
379, BEAM  ,    2,   18,  283,  187,    0,    0
380, BEAM  ,    2,   18,  238,  286,    0,    0
381, BEAM  ,    2,   18,  286,  190,    0,    0
382, BEAM  ,    2,   18,  241,  289,    0,    0
383, BEAM  ,    2,   18,  289,  193,    0,    0
384, BEAM  ,    1,    5,  292,  186,    0,    0
385, BEAM  ,    1,   25,  293,  234,    0,    0
386, BEAM  ,    2,   20,  294,  282,    0,    0
387, BEAM  ,    1,    5,  295,  135,    0,    0
388, BEAM  ,    1,   25,  296,   39,    0,    0
389, BEAM  ,    2,   20,  297,   87,    0,    0
390, BEAM  ,    1,    3,  298,  107,    0,    0
391, BEAM  ,    1,   23,  299,   11,    0,    0
392, BEAM  ,    2,   20,  300,   59,    0,    0
393, BEAM  ,    1,    3,  301,  158,    0,    0
394, BEAM  ,    1,   23,  302,  206,    0,    0
395, BEAM  ,    2,   20,  303,  254,    0,    0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS   ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
    1, STEEL, SM490          , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),          , SM490
    2, STEEL, SM400          , 0, 0, , C, NO, 0.02, 1, KS10-Civil(S),          , SM400
*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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1, D2, [SRC]                                              ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2      ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE             ; 1st 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, 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, SHAPE                                   ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                ; 2nd line
;          N1, N2, Hr, Hr2, tr1, tr2                                        ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh  ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                   ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2                                          ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh  ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                   ; 1st line - COMPOSITE-CI/CT
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;                               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, SHAPE                                   ; 1st line - PSC
;                               OPT1,     OPT2,     [JOINT]                  ; 2nd line
;         bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                   ; 4th line
;                                                   [SIZE-A]                 ; 5th line
;                                                   [SIZE-B]                 ; 6th line
;                                                   [SIZE-C]                 ; 7th line
;                                                   [SIZE-D]                 ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    1, COMPOSITE , G1-1                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    2, COMPOSITE , G1-2                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    3, COMPOSITE , G1-3                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    4, COMPOSITE , G1-4                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    5, COMPOSITE , G1-5                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    6, COMPOSITE , G1-6                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    7, COMPOSITE , G1-7                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    8, COMPOSITE , G1-8                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
    9, COMPOSITE , G1-9                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   10, COMPOSITE , G1-10                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   11, COMPOSITE , G1-11                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   12, COMPOSITE , G1-12                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   13, COMPOSITE , G1-13                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   14, COMPOSITE , G1-14                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 3
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   15, COMPOSITE , G1-15                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
       1, 0, 0, 0, 5, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   16, COMPOSITE , G1-16                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   17, COMPOSITE , G1-17                , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   18, DBUSER    , Cross Beam-일반    , CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
   19, DBUSER    , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
   20, DBUSER    , Stringer           , CC, 0, 0, 0, 0, 0, 0, YES, H  , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
   21, COMPOSITE , G2-1                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
       5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
       12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   22, COMPOSITE , G2-2                 , CC, 0, 0, 0, 0, 0, 0, YES, B
       2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
       1, 0, 0, 0, 3, 5
       1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
       0
       0
       3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
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      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   23, COMPOSITE , G2-3                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   24, COMPOSITE , G2-4                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   25, COMPOSITE , G2-5                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   26, COMPOSITE , G2-6                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   27, COMPOSITE , G2-7                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   28, COMPOSITE , G2-8                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   29, COMPOSITE , G2-9                , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   30, COMPOSITE , G2-10               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   31, COMPOSITE , G2-11               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-12               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-13               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-14               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 3
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-15               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-16               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-17               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G1-18               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
      1, 0, 0, 0, 5, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G1-19               , CC, 0, 0, 0, 0,
0, 0, YES, B
      2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
      1, 0, 0, 0, 3, 5
      1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
      0
      0
      3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
      5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
      12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B, HE_R,
HE_G, HE_B, bBLEND, FACT
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NO, 0.5
   2, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   3, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   4, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
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NO, 0.5
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NO, 0.5
   7, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
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NO, 0.5
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NO, 0.5
   10, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   17, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   18, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
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NO, 0.5
   20, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   21, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
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NO, 0.5
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NO, 0.5
   24, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   25, 255,    0,    0,    0, 255,    0,    0,    0, 255,
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NO, 0.5
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NO, 0.5
   27, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   28, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   29, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   30, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
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NO, 0.5
   32, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   33, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   34, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   35, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   36, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   37, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   38, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   39, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   40, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
   41, 255,   0,   0,   0, 255,   0,   0,   0, 255,
NO, 0.5
*COMP-GEN-SECT-PSC-DESIGN      ; Composite Section
for PSC Design
; ELEM, (Z1, Z2, Z3, t1, t2, t3, TotT)-I, (Z1, Z2, Z3, t1,
t2, t3, TotT)-J
     1, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     2, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     3, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     4, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     5, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     6, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     7, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     8, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
     9, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    10, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    11, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    12, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    13, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    14, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    15, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    16, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    17, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    21, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    22, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    23, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    24, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    25, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    26, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    27, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    28, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    29, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    30, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    31, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    32, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    33, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    34, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    35, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    36, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    37, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    38, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    40, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
    41, NO,  0, 0, 0, 0, 0, 0, 0,  0, 0, 0, 0, 0, 0, 0
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1, D2, [SRC]
                           ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2       ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE               ; 1st 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, 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,   SHAPE
                           ; 1st line - COMPOSITE-SB
;                Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
                           ; 2nd line
;                N1, N2, Hr, Hr2, tr1, tr2
                           ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 4th line
;  iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   SHAPE
                           ; 1st line - COMPOSITE-SI
;                Hw, tw, B, tf1, B2, tf2
                           ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 3rd line
;  iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   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,   SHAPE
                           ; 1st line - PSC
;                OPT1, OPT2, [JOINT]
                           ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                  ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                          [SIZE-A]
                           ; 5th line
;                                          [SIZE-B]
                           ; 6th line
;                                          [SIZE-C]
                           ; 7th line
;                                          [SIZE-D]
                           ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
     1, COMPOSITE , G1-1          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     2, COMPOSITE , G1-2          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     3, COMPOSITE , G1-3          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO,
0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0,
0.3, 0.18, 1.2, NO, ,
     4, COMPOSITE , G1-4          , CC, 0, 0, 0, 0,
0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
```

0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
5, COMPOSITE , G1-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
6, COMPOSITE , G1-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
7, COMPOSITE , G1-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
8, COMPOSITE , G1-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
9, COMPOSITE , G1-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
10, COMPOSITE , G1-10 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
11, COMPOSITE , G1-11 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
12, COMPOSITE , G1-12 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
13, COMPOSITE , G1-13 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
14, COMPOSITE , G1-14 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 3
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
15, COMPOSITE , G1-15 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
16, COMPOSITE , G1-16 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
17, COMPOSITE , G1-17 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.07, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
18, DBUSER , Cross Beam-일반 , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 1.5, 0.3, 0.01, 0.01, 0.3, 0.01, 0, 0, 0, 0
19, DBUSER , Cross Beam-교대교각, CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 2, 0.3, 0.012, 0.012, 0.3, 0.012, 0, 0, 0, 0
20, DBUSER , Stringer , CC, 0, 0, 0, 0, 0, 0, YES, H , 2, 0.8, 0.25, 0.01, 0.01, 0.25, 0.01, 0, 0, 0, 0
21, COMPOSITE , G2-1 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
22, COMPOSITE , G2-2 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.01
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
23, COMPOSITE , G2-3 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
24, COMPOSITE , G2-4 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.014
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
25, COMPOSITE , G2-5 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.016, 2.5, 0.1, 0.018
1, 0, 0, 0, 3, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
26, COMPOSITE , G2-6 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.014
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
27, COMPOSITE , G2-7 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
28, COMPOSITE , G2-8 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.012
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
29, COMPOSITE , G2-9 , CC, 0, 0, 0, 0, 0, 0, YES, B
2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
1, 0, 0, 0, 5, 5
1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
0
0
5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
12.15, 2, 7.8, 6.08, 0.25, 0.05, 7.94851, 0, 0.3, 0.18, 1.2, NO, ,
30, COMPOSITE , G2-10 , CC, 0, 0, 0, 0, 0, 0, YES, B

```
        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   31, COMPOSITE , G2-11                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   32, COMPOSITE , G2-12                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.03, 2.5, 0.1, 0.012
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   33, COMPOSITE , G2-13                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.032
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   34, COMPOSITE , G2-14                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.02, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 3
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   35, COMPOSITE , G2-15                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.022
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   36, COMPOSITE , G2-16                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.01, 2.5, 0.1, 0.012
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   37, COMPOSITE , G2-17                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.012
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   38, COMPOSITE , G2-18                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   39, COMPOSITE , G1-18                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.014
        1, 0, 0, 0, 5, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        5, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   40, COMPOSITE , G2-19                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.08, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
   41, COMPOSITE , G1-19                , CC, 0, 0, 0, 0, 0, 0, YES, B
        2.6, 0.012, 2.5, 0.1, 0.012, 2.5, 0.1, 0.018
        1, 0, 0, 0, 3, 5
        1, RIB, 0, 0.15, 0.014, 0, 0, 0, 0, 0, 0
        0
        0
        3, 0.625, 0, NO, 0.625, 0, NO, 0.625, 0, NO
        5, 0.416, 0, NO, 0.41667, 0, NO, 0.416, 0, NO, 0.416, 0, NO, 0.416, 0, NO
        12.15, 2, 7.8,    6.07, 0.25, 0.05,    7.94851, 0, 0.3, 0.18, 1.2, NO, ,
*STLDCASE     ; Static Load Cases
; LCNAME, LCTYPE, DESC
   자중 , D ,
   슬래브하중, D ,
   "포장,방호벽하중", D ,
   단위모멘트, USER,
*CONSTRAINT     ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   1, 111000,
   97, 101000,
   22 47 217 242, 011000,
   118 143 169 194, 001000,
*OFFSET     ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj, RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP                ; TYPE=ELEMENT
   148, ELEMENT, 0, 1.3,
   149, ELEMENT, 1.3, 0,
   150, ELEMENT, 0, 1.3,
   151, ELEMENT, 1.3, 0,
   152, ELEMENT, 0, 1.3,
   153, ELEMENT, 1.3, 0,
   340, ELEMENT, 0, 1.3,
   341, ELEMENT, 1.3, 0,
   342, ELEMENT, 0, 1.3,
   343, ELEMENT, 1.3, 0,
*USE-STLD, 자중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
;    End    of    data    for    load    case    [자중]
--------------------------
*USE-STLD, 슬래브하중
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
      2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      10, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      10, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      11, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      11, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      12, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      13, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      14, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      15, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      16, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
      16, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
      17, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
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87, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
249, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
250, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
250, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
251, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
251, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
252, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
252, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
253, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
253, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
254, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
254, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
255, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
255, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
256, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
256, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
257, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
257, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
258, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
258, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
259, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
259, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
260, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
260, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
261, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
261, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
262, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
262, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
265, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
266, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
266, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
267, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , ,

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    267, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    268, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    268, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    269, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    269, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    270, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    270, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    271, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    272, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    273, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    274, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    274, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    275, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    276, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    277, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    277, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    278, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    278, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    279, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    279, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    281, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    282, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    282, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    283, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    284, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    286, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    287, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    288, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
    289, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
    384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    385, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    388, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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    391, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -44.263, 1, -44.263, 0, 0, 0, 0, , NO, 0, 0, NO,
    393, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -38.287, 1, -38.287, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, 38.125, 1, 38.125, 0, 0, 0, 0, , NO, 0, 0, NO,
    394, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -44.331, 1, -44.331, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [슬래브하중]
--------------------------
*USE-STLD, "포장,방호벽하중"
*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, ADDITIONAL_I-END, ADDITIONAL_J-END, bADDITIONAL_J-END
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    2, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    3, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    3, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    4, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    5, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    6, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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    7, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    8, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    8, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    9, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    10, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    11, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    11, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    12, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    13, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    14, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    15, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
    16, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    24, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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    25, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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    26, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
    26, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
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-10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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58, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
58, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
58, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
59, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
59, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
59, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
60, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
60, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
60, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
61, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
61, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
61, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
62, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
62, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
62, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
63, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
64, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
64, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
64, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
65, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
65, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
65, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
66, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
66, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
66, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
67, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
67, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
67, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
68, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
68, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
68, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
69, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
69, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
69, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
70, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
70, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
70, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
71, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
71, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
71, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
72, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
72, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
72, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
73, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
73, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
73, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
74, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
74, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
74, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,

75, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
75, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
75, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
76, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
76, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
76, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
77, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
78, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
79, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
80, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
81, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
82, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
83, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
84, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
85, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
86, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
87, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
88, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
88, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
88, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
89, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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91, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
91, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
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199, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
199, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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200, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
200, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
201, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
201, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
201, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
202, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
202, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
202, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
203, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
203, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
203, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
204, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
204, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
204, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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205, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , , , 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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206, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
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208, LINE , UNILOAD, GZ, NO , NO, aDir[1], , , , 0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
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217, LINE , UNIMOMENT, GZ, NO , NO, aDir[1], , ,

, 0, −11.094, 1, −11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, −11.094, 1, −11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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, 0, −11.094, 1, −11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
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   384, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   384, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   385, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   385, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   385, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   387, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   387, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   387, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   388, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   388, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   388, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   390, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   390, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   390, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   391, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
   391, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   391, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   393, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -5.704, 1, -5.704, 0, 0, 0, 0, , NO, 0, 0, NO,
   393, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.341, 1, -10.341, 0, 0, 0, 0, , NO, 0, 0, NO,
   393, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, -11.094, 1, -11.094, 0, 0, 0, 0, , NO, 0, 0, NO,
   394, LINE    , UNIMOMENT, GZ, NO , NO, aDir[1], , ,
, 0, 6.127, 1, 6.127, 0, 0, 0, 0, , NO, 0, 0, NO,
   394, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -10.663, 1, -10.663, 0, 0, 0, 0, , NO, 0, 0, NO,
   394, LINE    , UNILOAD, GZ, NO , NO, aDir[1], , , ,
0, -3.007, 1, -3.007, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [포장,방호벽하중]
-------------------------
*USE-STLD, 단위모멘트
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
  47, 0, 0, 0, 0, -1, 0,
 143, 0, 0, 0, 0, -1, 0,
 194, 0, 0, 0, 0, 1, 0,
 242, 0, 0, 0, 0, 1, 0,
; End of data for load case [단위모멘트]
-------------------------
*MVLDCODE    ; Moving Load Code
; CODE=CODE
   CODE=KOREA
*LINELANE    ; Traffic Line Lanes
; NAME=NAME, LDIST, GROUP, SKEWS, SKEWE, MOVING, LW, WS, bLANEOPT ; line 1
;            iELEM1, ECC1, FACT1, bSPAN1, ECCVL...
             ; from line 2
   NAME=L1, LANE, , 0, 0, BOTH, 3, 1.8, NO
         242, -0.395, 0.157895, YES, 0,    241, -0.395,
0.157895, NO, 0
         240, -0.395, 0.157895, NO, 0,    239, -0.395,
0.157895, NO, 0
         238, -0.395, 0.157895, NO, 0,    237, -0.395,
0.157895, NO, 0
         236, -0.395, 0.157895, NO, 0,    235, -0.395,
0.157895, NO, 0
         234, -0.395, 0.157895, NO, 0,    384, -0.395,
0.157895, NO, 0
         233, -0.395, 0.157895, NO, 0,    232, -0.395,
0.157895, NO, 0
         231, -0.395, 0.157895, NO, 0,    230, -0.395,
0.157895, NO, 0
         229, -0.395, 0.157895, NO, 0,    228, -0.395,
0.157895, NO, 0
         227, -0.395, 0.157895, NO, 0,    226, -0.395,
0.157895, NO, 0
         225, -0.395, 0.157895, NO, 0,    224, -0.395,
0.157895, NO, 0
         223, -0.395, 0.157895, NO, 0,    222, -0.395,
0.157895, NO, 0
         221, -0.395, 0.157895, NO, 0,    220, -0.395,
0.157895, NO, 0
         219, -0.395, 0.157895, NO, 0,    218, -0.395,
0.157895, NO, 0
         217, -0.395, 0.157895, NO, 0,    216, -0.395,
0.157895, NO, 0
         215, -0.395, 0.157895, NO, 0,    214, -0.395,
0.157895, NO, 0
         213, -0.395, 0.157895, NO, 0,    212, -0.395,
0.157895, NO, 0
         211, -0.395, 0.157895, NO, 0,    210, -0.395,
0.157895, NO, 0
         209, -0.395, 0.157895, NO, 0,    208, -0.395,
0.157895, NO, 0
         207, -0.395, 0.157895, NO, 0,    206, -0.395,
0.157895, NO, 0
         393, -0.395, 0.157895, NO, 0,    205, -0.395,
0.157895, NO, 0
         204, -0.395, 0.157895, NO, 0,    203, -0.395,
0.157895, NO, 0
         202, -0.395, 0.157895, NO, 0,    200, -0.395,
0.157895, NO, 0
         201, -0.395, 0.157895, NO, 0,    199, -0.395,
0.157895, NO, 0
         198, -0.395, 0.157895, NO, 0,    197, -0.395,
0.157895, NO, 0
         195, -0.395, 0.157895, NO, 0,    196, -0.395,
0.157895, NO, 0
         194, -0.395, 0.157895, NO, 0,    243, -0.395,
0.157895, NO, 0
          51, -0.395, 0.157895, NO, 0,      2, -0.395,
0.157895, NO, 0
           3, -0.395, 0.157895, NO, 0,      4, -0.395,
0.157895, NO, 0
           5, -0.395, 0.157895, NO, 0,      6, -0.395,
0.157895, NO, 0
           7, -0.395, 0.157895, NO, 0,      8, -0.395,
0.157895, NO, 0
           9, -0.395, 0.157895, NO, 0,     10, -0.395,
0.157895, NO, 0
          11, -0.395, 0.157895, NO, 0,     12, -0.395,
0.157895, NO, 0
          13, -0.395, 0.157895, NO, 0,    390, -0.395,
0.157895, NO, 0
          14, -0.395, 0.157895, NO, 0,     15, -0.395,
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0.157895, NO, 0
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26, -0.395, 0.157895, NO, 0, 27, -0.395, 0.157895, NO, 0
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NAME=L2, LANE, , 0, 0, BOTH, 3, 1.8, NO
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337, -0.1385, 0.157895, NO, 0, 336, -0.1385, 0.157895, NO, 0
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NAME=L3, LANE, , 0, 0, BOTH, 3, 1.8, NO
291, -1.695, 0.157895, YES, 0, 290, -1.695, 0.157895, NO, 0
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94, -1.695, 0.157895, NO, 0, 95, -1.695, 0.157895, NO, 0
96, -1.695, 0.157895, NO, 0, 97, -1.695, 0.157895, NO, 0
98, -1.695, 0.157895, NO, 0, 99, -1.695, 0.157895, NO, 0
*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 ; HA, HA & HB, HA & HB(Auto)
; 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] : nLT, 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, ALP, TPSY, W, BET, 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, bDF, 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, s1_UDL            ; 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,                    ; standard (SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; 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, s1_UDL      ; user (Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; user (Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC, dDYNAFAC, dEMPTYCAR
;      bFATI, nLOADFAC, dLOADFAC,                    ; 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



;      bTWOVEHI, TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT ; user (Type 5)
; NAME=NAME, 2, iTYPE, W, D, nDYNAFAC, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC ; user (Type 6)
; NAME=NAME, 2, iTYPE, P, W, bFATI, nLOADFAC, dLOADFAC                ; user (Type 7)
; if Moving Load Code is KSCE-LSD15
; NAME=NAME, 1, TYPE-NAME, nLANETYPE, dDYNAFAC, CODE                ; standard
; NAME=NAME, 2, 8, L1, W1, W2, EXP                    ; user: line 1 (Type 1)
; NAME=NAME, 2, 1, W1, W2, D1, D2                    ; user: line 1 (Type 2)
; NAME=NAME, 2, 6, LOADNUM, DIST, W, L                    ; user: line 1 (Type 3)
;      LOAD1, DIST1, LOAD2, DIST2, ...                    ; user: from line 2
; if Moving Load Code is AASHTO LRFD, CANADA and Load Type is Permit Truck
; NAME=NAME, 3, AXLE-TYPE-NUM, IMP-FACTOR                    ; user(Permit Truck)
;      AXLE-TYPE-NAME1, bEDWL1, bSV1, P1, D1, P2, D2, ..., Pn, Dn      ; user(from line 2)
;      ...

;      AXLE-TYPE-NAMEn, bEDWLn, bSVn, P1, D1, P2, D2, ..., Pn, Dn
;      AXLE-TYPE1, SPACING1, bVS1, AXLE-TYPE2, SPACING2, bVS2 ...      ; line 2+AXLE-TYPE-NUM
; if Moving Load Code is not one of those specified above.
; NAME=NAME, 1, TYPE-NAME, DLA, CODE                    ; standard
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), PLM(W2), PLV(D2), NDIST      ; user: line 1
;      LOAD1, DIST1, LOAD2, DIST2, ...                    ; user: from line 2
   NAME=DB-24, 1, DB-24, 0, KS-RB
   NAME=DL-24, 1, DL-24, 0, KS-RB
*MVLDCASE   ; Moving Load Cases
; NAME=NAME, bLCPV, SCALE1, SCALE2, SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC, LCOM, SERIAL ; 1st line
;      nLTYPE, 2LFACTOR1, 2LFACTOR2, 3LFACTOR1, 3LFACTOR2, 3LFACTOR3, 3LFACTOR4      ; 2st line
;      TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1, LANE11, LANE12, ...      ; 3nd line
;      ...
;      ...
;      TYPEn, VCLASSn, SCALEn, iMINn, iMAXn, LANEn1, LANEn2, ...      ; n+1th line
; NAME=NAME, bLCPV, VEHICLE, REFLANE, ECCEN, SCALE, DESC      ; Permit
   NAME=활하중, NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 1
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DB-24, 1, 1, 3, L1, L2, L3
      VL, DL-24, 1, 1, 3, L1, L2, L3
   NAME=활하중(DB), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 2
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DB-24, 1, 1, 3, L1, L2, L3
   NAME=활하중(DL), NO, 1, 1, 0.9, 0.75, 0.75, 0.75, INDEPENDENT, , 0, 3
      1, 1, 1, 1, 1, 0.5, 0.25
      VL, DL-24, 1, 1, 3, L1, L2, L3
*SM-GROUP   ; Settlement Group
; GRNAME, DISPLACEMENT, NODE_LIST
   P3, -0.01, 194 242
   P4, -0.01, 169 217
   P5, -0.01, 1 97
   P6, -0.01, 22 118
   A2, -0.01, 47 143
*SMLDCASE   ; Settlement Load Cases
; NAME=NAME, iSMIN, iSMAX, SCALE, DESC ; line 1
;      GRNAME1, GRNAME2, ...      ; from line 2
   NAME=지점침하, 1, 4, 1,
      P3, P4, P5, P6, A2
*LOADCOMB   ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE   ; line 1
;      ANAL1, LCNAME1, FACT1, ...      ; from line 2
   NAME=합성전, GEN, ACTIVE, 0, 0, , 0, 0
      ST, 자중, 1, ST, 슬래브하중, 1
   NAME=합성후, GEN, ACTIVE, 0, 0, , 0, 0
      ST, "포장,방호벽하중", 1
   NAME=고정하중, GEN, ACTIVE, 0, 0, , 0, 0
      CB, 합성전, 1, CB, 합성후, 1
*LC-COLOR   ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN), iR3(MAX), iG2(MAX), iB2(MAX)
 ST, 자중, 210, 210, 210, 255, 255, 87, 0, 128, 192
 ST, 슬래브하중, 255, 160, 255, 255, 255, 255, 163, 255, 160
 ST, "포장,방호벽하중", 0, 157, 192, 93, 255, 87, 0, 157, 192
 ST, 단위모멘트, 0, 128, 192, 163, 160, 255, 255, 87, 128
 MV, 활하중, 163, 255, 160, 212, 160, 255, 160, 255, 255
 CB, 합성전, 255, 87, 87, 255, 192, 160, 146, 0, 255
 CB, 합성후, 192, 128, 0, 255, 255, 87, 255, 87, 87
 SM, 지점침하, 255, 255, 87, 0, 128, 128, 255, 255, 87
 MV, 활하중(DB), 85, 192, 0, 255, 87, 87, 0, 128, 128
 MV, 활하중(DL), 210, 210, 210, 255, 255, 255, 0, 157, 192
 CB, 고정하중, 160, 192, 255, 0, 128, 57, 163, 160, 255
*DGN-MATL   ; Modify Steel(Concrete) Material
;      iMAT, TYPE, MNAME, [DATA1]      ; STEEL
; iMAT, TYPE, MNAME, [DATA2], [R-DATA], FCI, bSERV, SHORT, LONG ; CONC
; iMAT, TYPE, MNAME, [DATA3], [DATA2], [R-DATA]      ; SRC
;      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
; [DATA3] : 1, DB, CODE, NAME or 2, ELAST, FU, FY1, FY2, FY3, FY4
;      FY5, FY6, AFT, AFT2, AFT3, FY, AFV, AFV2, AFV3
; [DATA4] : 1, DB, CODE, NAME or 2, FC
; [DATA5] : 3, ELAST, POISN, AL1, AL2, AL3, AL4, AL5, AL6, AL7, AL8, AL9, AL10
;      MIN1, MIN2, MIN3
; [R-DATA]: RBCODE, RBMAIN, RBSUB, FY(R), FYS
   1, STEEL, SM490      , 1, KS10-Civil(S), ,SM490      , 1, KS01-Civil(RC),      ,
      , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,
   2, STEEL, SM400      , 1, KS10-Civil(S), ,SM400      , 1, KS01-Civil(RC),      ,
      , , , , 0, 0,NO,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,0.0000e+000,      0,, 0, 0,0, 0, 0,0, 0, 0,0, 0, 0,
*SECTION MANAGER-GROUP & PART   ; Section Manager - Group & Part
;      SECT = NO, bSAMEJ      ; line 1
;      GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE      ; line 2
; ..... ;

;      LOOP UTIL (GRPDISIZE, GRPDJSIZE)      ;
;      GROUPID, GROUPNAME, GROUPTYPE      ; line n
; ..... ;

;      LOOP UTIL (PARTISIZE, PARTJSIZE)      ;
;      PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, bSTIFFENER      ; line n
;      LINESIZE, LINEINDEX[i]..... ; line n
; ..... ;

   SECT=1, YES
 0, 0, 0, 0
   SECT=2, YES
 0, 0, 0, 0
```

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  SECT=3, YES
 0, 0, 0, 0
  SECT=4, YES
 0, 0, 0, 0
  SECT=5, YES
 0, 0, 0, 0
  SECT=6, YES
 0, 0, 0, 0
  SECT=7, YES
 0, 0, 0, 0
  SECT=8, YES
 0, 0, 0, 0
  SECT=9, YES
 0, 0, 0, 0
  SECT=10, YES
 0, 0, 0, 0
  SECT=11, YES
 0, 0, 0, 0
  SECT=12, YES
 0, 0, 0, 0
  SECT=13, YES
 0, 0, 0, 0
  SECT=14, YES
 0, 0, 0, 0
  SECT=15, YES
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  SECT=16, YES
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  SECT=17, YES
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  SECT=21, YES
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  SECT=22, YES
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  SECT=23, YES
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  SECT=24, YES
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  SECT=25, YES
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  SECT=26, YES
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  SECT=27, YES
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  SECT=28, YES
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  SECT=29, YES
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  SECT=35, YES
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  SECT=36, YES
 0, 0, 0, 0
  SECT=37, YES
 0, 0, 0, 0
  SECT=38, YES
 0, 0, 0, 0
  SECT=40, YES
 0, 0, 0, 0
  SECT=41, YES
 0, 0, 0, 0
*SECTION MANAGER-STIFFENER     ; Section Manager - Stiffener
;          SECT          =          NO,          bSAMEJ                          ; line 1
;                                    STFNISIZE,    STFNJSIZE                       ; line 2
; ...................................................................    ;

;                    LOOP   UTIL   (STFNISIZE,   STFNJSIZE)                         ;
;            TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM, CTC                        ; line n
;                        STIFFTYPE,    dSIZE(0    ~    20)                           ; line n
;                            LINESIZE,    LINEINDEX[i]......                        ; line n
; ...................................................................    ;

  SECT=1, YES
 0, 0
  SECT=2, YES
 0, 0
  SECT=3, YES
 0, 0
  SECT=4, YES
 0, 0
  SECT=5, YES
 0, 0
  SECT=6, YES
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  SECT=7, YES
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  SECT=11, YES
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  SECT=12, YES
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  SECT=14, YES
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  SECT=15, YES
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  SECT=16, YES
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  SECT=21, YES
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  SECT=22, YES
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  SECT=37, YES
 0, 0
  SECT=38, YES
 0, 0
  SECT=40, YES
 0, 0
  SECT=41, YES
 0, 0
*ENDDATA
```

■ 남천교 대구방향(P2) 하부 input

```
;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;------------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT    ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, J, C
*STRUCTYPE    ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
     0, 1, 1, NO, YES, 9.806, 0, NO, NO, NO
*REBAR-MATL-CODE    ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE    ; Nodes
; iNO, X, Y, Z
     1, 0, 0, 16.832
     2, 0.015, 0, 16.832
     3, 1.6, 0, 16.832
     4, 3.185, 0, 16.832
     5, 4.8, 0, 16.832
     6, 5.2, 0, 16.832
     7, 5.8, 0, 16.832
     8, 6.2, 0, 16.832
     9, 7.815, 0, 16.832
    10, 9.4, 0, 16.832
    11, 10.985, 0, 16.832
    12, 11, 0, 16.832
    13, 1.6, 0, 0
    14, 9.4, 0, 0
*ELEMENT    ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS    ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8    ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
     1, BEAM  ,    1,    9,    1,    2,    0,    0
     2, BEAM  ,    1,   14,    2,    3,    0,    0
     3, BEAM  ,    1,   14,    3,    4,    0,    0
     4, BEAM  ,    1,   10,    4,    5,    0,    0
     5, BEAM  ,    1,   11,    5,    6,    0,    0
     6, BEAM  ,    1,   11,    6,    7,    0,    0
     7, BEAM  ,    1,   11,    7,    8,    0,    0
     8, BEAM  ,    1,   12,    8,    9,    0,    0
     9, BEAM  ,    1,   15,    9,   10,    0,    0
    10, BEAM  ,    1,   15,   10,   11,    0,    0
    11, BEAM  ,    1,   13,   11,   12,    0,    0
    12, BEAM  ,    2,   16,    3,   13,    0,    0
    13, BEAM  ,    2,   16,   10,   14,    0,    0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS   ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
     1, USER , CONC1              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     0
     2, USER , CONC2              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                  ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                    D1,    D2,    [SRC]                                      ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2        ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE               ; 1st 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, 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, SHAPE                                    ; 1st line - COMPOSITE-SB
;                    Hw,    tw,    B,    Bf1,    tf1,    B2,    Bf2,    tf2    ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2                  ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    ; 1st line - COMPOSITE-SI
;                    Hw,    tw,    B,    tf1,    B2,    tf2                    ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 3rd line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                    ; 1st line - PSC
;                    OPT1,    OPT2,    [JOINT]                                ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                 ; 4th line
;                    [SIZE-A]                                                 ; 5th line
;                    [SIZE-B]                                                 ; 6th line
;                    [SIZE-C]                                                 ; 7th line
;                    [SIZE-D]                                                 ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED    , TAP1              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0, 0
   10, TAPERED    , TAP2              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED    , TAP3              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED    , TAP4              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED    , TAP5              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   14, TAPERED    , TAP6              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED    , TAP7              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
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   16, TAPERED    , TAP8                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 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
    9, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   10, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,    0, 255,    0,    0,    0, 255,
NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                D1,    D2,    [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2          ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE                ; 1st 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, 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,   SHAPE
                    ; 1st line - COMPOSITE-SB
;              Hw,    tw,    B,    Bf1,    tf1,    B2,    Bf2,    tf2
                    ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2
                    ; 3rd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 4th line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   SHAPE
                    ; 1st line - COMPOSITE-SI
;                    Hw,    tw,    B,    tf1,    B2,    tf2
                    ; 2nd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 3rd line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   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,   SHAPE
                    ; 1st line - PSC
;                                OPT1,    OPT2,    [JOINT]
                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                [SIZE-A]
                    ; 5th line
;                                [SIZE-B]
                    ; 6th line
;                                [SIZE-C]
                    ; 7th line
;                                [SIZE-D]
                    ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED    , TAP1                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0,
0
   10, TAPERED    , TAP2                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED    , TAP3                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED    , TAP4                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED    , TAP5                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0,
0
   14, TAPERED    , TAP6                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED    , TAP7                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   16, TAPERED    , TAP8                , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   D     , USER,
   L1    , USER,
   W-LO  , USER,
   W-TR  , USER,
   WL    , USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   13 14, 111111,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                    ; TYPE=ELEMENT
    12, ELEMENT, 1.71025, 0,
    13, ELEMENT, 1.78465, 0,
*USE-STLD, D
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -4350.46, 0, 0, 0,
  10, 0, 0, -4487.79, 0, 0, 0,
;    End    of    data    for    load    case    [D]
--------------------------
*USE-STLD, L1
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -630.21, 0, 0, 0,
  10, 0, 0, -785.238, 0, 0, 0,
;    End    of    data    for    load    case    [L1]
--------------------------
*USE-STLD, W-LO
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
      1, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
```

```
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
8.397, 1, 8.397, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     10, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     11, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
     12, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
9.6, 1, 9.6, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
9.6, 1, 9.6, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-LO]
--------------------------
*USE-STLD, W-TR
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    1, 39.186, 0, 0, 0, 0, 0,
    3, 356.675, 0, 0, 0, 829.27, 0,
   10, 356.675, 0, 0, 0, 829.27, 0,
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
     12, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
3.9, 1, 3.9, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-TR]
--------------------------
*USE-STLD, WL
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    3, 41.25, 0, 0, 0, 297.537, 0,
   10, 41.25, 0, 0, 0, 297.537, 0,
; End of data for load case [WL]
--------------------------
*LOADCOMB    ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE   ; line 1
;                    ANAL1, LCNAME1, FACT1, ...
                ; from line 2
    NAME=ULB01, GEN, ACTIVE, 0, 0, , 0, 0
        ST, D, 1.3, ST, L1, 2.15
    NAME=ULB03(교직), GEN, ACTIVE, 0, 0, , 0, 0
        ST, D, 1.3, ST, W-TR, 1.3
    NAME=ULB03(교축), GEN, ACTIVE, 0, 0, , 0, 0
        ST, D, 1.3, ST, W-LO, 1.3
*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)
 CB, ULB01, 0, 128, 255, 255, 192, 160, 210, 210, 210
 CB, ULB03(교직), 0, 157, 192, 93, 255, 87, 255, 87,
128
 CB, ULB03(교축), 192, 0, 192, 192, 0, 128, 192, 0, 192
 ST, D, 78, 0, 255, 255, 255, 87, 255, 0, 128
 ST, L1, 255, 87, 128, 255, 192, 160, 192, 0, 192
 ST, W-LO, 210, 210, 210, 212, 160, 255, 192, 128, 0
 ST, W-TR, 128, 192, 0, 255, 192, 160, 160, 192, 255
 ST, WL, 255, 255, 87, 0, 128, 255, 160, 192, 255
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR,
bTPF, bCSO, bSCS, bCLATS
   YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO,
NO, YES
*ENDDATA
```

■ 남천교 대구방향(P4) 하부 input

```
;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;------------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT    ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, J, C
*STRUCTYPE    ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
     0, 1, 1, NO, YES, 9.806, 0, NO, NO, NO
*REBAR-MATL-CODE    ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE    ; Nodes
; iNO, X, Y, Z
     1, 0, 0, 29.485
     2, 0.015, 0, 29.485
     3, 1.6, 0, 29.485
     4, 3.185, 0, 29.485
     5, 4.8, 0, 29.485
     6, 5.2, 0, 29.485
     7, 5.8, 0, 29.485
     8, 6.2, 0, 29.485
     9, 7.815, 0, 29.485
    10, 9.4, 0, 29.485
    11, 10.985, 0, 29.485
    12, 11, 0, 29.485
    13, 1.6, 0, 0
    14, 9.4, 0, 0
*ELEMENT    ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS    ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8    ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
     1, BEAM  ,    1,    9,    1,    2,    0,    0
     2, BEAM  ,    1,   14,    2,    3,    0,    0
     3, BEAM  ,    1,   14,    3,    4,    0,    0
     4, BEAM  ,    1,   10,    4,    5,    0,    0
     5, BEAM  ,    1,   11,    5,    6,    0,    0
     6, BEAM  ,    1,   11,    6,    7,    0,    0
     7, BEAM  ,    1,   11,    7,    8,    0,    0
     8, BEAM  ,    1,   12,    8,    9,    0,    0
     9, BEAM  ,    1,   15,    9,   10,    0,    0
    10, BEAM  ,    1,   15,   10,   11,    0,    0
    11, BEAM  ,    1,   13,   11,   12,    0,    0
    12, BEAM  ,    2,   16,    3,   13,    0,    0
    13, BEAM  ,    2,   16,   10,   14,    0,    0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS    ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
     1, USER , CONC1              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     0
     2, USER , CONC2              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                  ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1,    D2,    [SRC]                                          ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2        ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE               ; 1st 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, 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, SHAPE                                    ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                  ; 2nd line
;                N1,    N2,    Hr,    Hr2,    tr1,    tr2                     ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2                                            ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 3rd line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                    ; 1st line - PSC
;                OPT1,    OPT2,    [JOINT]                                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                 ; 4th line
;                [SIZE-A]                                                     ; 5th line
;                [SIZE-B]                                                     ; 6th line
;                [SIZE-C]                                                     ; 7th line
;                [SIZE-D]                                                     ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
     9, TAPERED    , TAP1              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0, 0
    10, TAPERED    , TAP2              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
    11, TAPERED    , TAP3              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
    12, TAPERED    , TAP4              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
    13, TAPERED    , TAP5              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
    14, TAPERED    , TAP6              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
    15, TAPERED    , TAP7              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
```

```
   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 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
    9, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   10, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                D1,    D2,    [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2          ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE                ; 1st 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, 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,  SHAPE
                    ; 1st line - COMPOSITE-SB
;              Hw,  tw,  B,  Bf1,  tf1,  B2,  Bf2,  tf2
                    ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2
                    ; 3rd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 4th line
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  SHAPE
                    ; 1st line - COMPOSITE-SI
;                    Hw,  tw,  B,  tf1,  B2,  tf2
                    ; 2nd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 3rd line
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  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,  SHAPE
                    ; 1st line - PSC
;                                OPT1,    OPT2,    [JOINT]
                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                [SIZE-A]
                    ; 5th line
;                                [SIZE-B]
                    ; 6th line
;                                [SIZE-C]
                    ; 7th line
;                                [SIZE-D]
                    ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED    , TAP1                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0,
0
   10, TAPERED    , TAP2                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED    , TAP3                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED    , TAP4                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED    , TAP5                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0,
0
   14, TAPERED    , TAP6                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED    , TAP7                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   D     , USER,
   L1    , USER,
   W-LO  , USER,
   W-TR  , USER,
   WL    , USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   13 14, 111111,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                    ; TYPE=ELEMENT
    12, ELEMENT, 1.71025, 0,
    13, ELEMENT, 1.78465, 0,
*USE-STLD, D
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -4437.37, 0, 0, 0,
  10, 0, 0, -4572.56, 0, 0, 0,
;    End    of    data    for    load    case    [D]
--------------------------
*USE-STLD, L1
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -629.426, 0, 0, 0,
  10, 0, 0, -782.879, 0, 0, 0,
;    End    of    data    for    load    case    [L1]
--------------------------
*USE-STLD, W-LO
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
    1, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
```

```
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
8.397, 1, 8.397, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     10, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     11, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-LO]
--------------------------
*USE-STLD, W-TR
*CONLOAD     ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    1, 39.186, 0, 0, 0, 0, 0,
    3, 356.675, 0, 0, 0, 829.27, 0,
   10, 356.675, 0, 0, 0, 829.27, 0,
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
     12, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
3.9, 1, 3.9, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-TR]
--------------------------
*USE-STLD, WL
*CONLOAD     ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    3, 41.25, 0, 0, 0, 297.537, 0,
   10, 41.25, 0, 0, 0, 297.537, 0,
; End of data for load case [WL]
--------------------------
*LOADCOMB     ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE    ; line 1
;                    ANAL1, LCNAME1, FACT1, ...
                ; from line 2
    NAME=ULB01, GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, L1, 2.15
    NAME=ULB03(교직), GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, W-TR, 1.3
    NAME=ULB03(교축), GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, W-LO, 1.3
*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)
 CB, ULB01, 0, 128, 255, 255, 192, 160, 210, 210, 210
 CB, ULB03(교직), 0, 157, 192, 93, 255, 87, 255, 87,
128
 CB, ULB03(교축), 192, 0, 192, 192, 0, 128, 192, 0, 192
 ST, D, 78, 0, 255, 255, 255, 87, 255, 0, 128
 ST, L1, 255, 87, 128, 255, 192, 160, 192, 0, 192
 ST, W-LO, 210, 210, 210, 212, 160, 255, 192, 128, 0
 ST, W-TR, 128, 192, 0, 255, 192, 160, 160, 192, 255
 ST, WL, 255, 255, 87, 0, 128, 255, 160, 192, 255
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR,
bTPF, bCSO, bSCS, bCLATS
    YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO,
NO, YES
*ENDDATA
```

■ 남천교 부산방향(P2) 하부 input

```
;------------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;------------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT    ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN    , M, J, C
*STRUCTYPE    ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
     0, 1, 1, NO, YES, 9.806, 0, NO, NO, NO
*REBAR-MATL-CODE    ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE    ; Nodes
; iNO, X, Y, Z
     1, 0, 0, 27.253
     2, 0.015, 0, 27.253
     3, 1.6, 0, 27.253
     4, 3.185, 0, 27.253
     5, 4.8, 0, 27.253
     6, 5.2, 0, 27.253
     7, 5.8, 0, 27.253
     8, 6.2, 0, 27.253
     9, 7.815, 0, 27.253
    10, 9.4, 0, 27.253
    11, 10.985, 0, 27.253
    12, 11, 0, 27.253
    13, 1.6, 0, 0
    14, 9.4, 0, 0
*ELEMENT    ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS    ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8    ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
     1, BEAM  ,    1,    9,    1,    2,    0,    0
     2, BEAM  ,    1,   14,    2,    3,    0,    0
     3, BEAM  ,    1,   14,    3,    4,    0,    0
     4, BEAM  ,    1,   10,    4,    5,    0,    0
     5, BEAM  ,    1,   11,    5,    6,    0,    0
     6, BEAM  ,    1,   11,    6,    7,    0,    0
     7, BEAM  ,    1,   11,    7,    8,    0,    0
     8, BEAM  ,    1,   12,    8,    9,    0,    0
     9, BEAM  ,    1,   15,    9,   10,    0,    0
    10, BEAM  ,    1,   15,   10,   11,    0,    0
    11, BEAM  ,    1,   13,   11,   12,    0,    0
    12, BEAM  ,    2,   16,    3,   13,    0,    0
    13, BEAM  ,    2,   16,   10,   14,    0,    0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]          ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS    ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
     1, USER , CONC1              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     0
     2, USER , CONC2              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                  ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                D1,    D2,    [SRC]                                          ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2        ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE               ; 1st 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, 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, SHAPE                                    ; 1st line - COMPOSITE-SB
;          Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                                  ; 2nd line
;                N1,    N2,    Hr,    Hr2,    tr1,    tr2                     ; 3rd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 4th line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                    ; 1st line - COMPOSITE-SI
;          Hw, tw, B, tf1, B2, tf2                                            ; 2nd line
;          SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh    ; 3rd line
;  iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                    ; 1st line - PSC
;                OPT1,    OPT2,    [JOINT]                                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                    ; 3rd line
;          bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                 ; 4th line
;                [SIZE-A]                                                     ; 5th line
;                [SIZE-B]                                                     ; 6th line
;                [SIZE-C]                                                     ; 7th line
;                [SIZE-D]                                                     ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
     9, TAPERED    , TAP1              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0, 0
    10, TAPERED    , TAP2              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
    11, TAPERED    , TAP3              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
    12, TAPERED    , TAP4              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
    13, TAPERED    , TAP5              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
    14, TAPERED    , TAP6              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
            11.7, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
    15, TAPERED    , TAP7              , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
            12.74, 0, 0, 100, 100, 100
            0, 0, 0, 0, 0, 0, 0, 0,  0, 0
            0, 0, 0, 0, 0, 0, 0, 0, 0, 0
```

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   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 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
    9, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   10, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                D1,    D2,    [SRC]
                           ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2       ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE               ; 1st 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, 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,   SHAPE
                           ; 1st line - COMPOSITE-SB
;                Hw,    tw,    B,    Bf1,    tf1,    B2,    Bf2,    tf2
                           ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2
                           ; 3rd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 4th line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   SHAPE
                           ; 1st line - COMPOSITE-SI
;                    Hw,    tw,    B,    tf1,    B2,    tf2
                           ; 2nd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh         ; 3rd line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   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,   SHAPE
                           ; 1st line - PSC
;                                OPT1,    OPT2,    [JOINT]
                           ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                  ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                [SIZE-A]
                           ; 5th line
;                                [SIZE-B]
                           ; 6th line
;                                [SIZE-C]
                           ; 7th line
;                                [SIZE-D]
                           ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED    , TAP1                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0,
0
   10, TAPERED    , TAP2                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED    , TAP3                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED    , TAP4                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED    , TAP5                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0,
0
   14, TAPERED    , TAP6                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED    , TAP7                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   D     , USER,
   L1    , USER,
   W-LO  , USER,
   W-TR  , USER,
   WL    , USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   13 14, 111111,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                           ; TYPE=ELEMENT
    12, ELEMENT, 1.71025, 0,
    13, ELEMENT, 1.78465, 0,
*USE-STLD, D
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -4487.79, 0, 0, 0,
  10, 0, 0, -4350.46, 0, 0, 0,
;    End    of    data    for    load    case    [D]
--------------------------
*USE-STLD, L1
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -785.239, 0, 0, 0,
  10, 0, 0, -630.21, 0, 0, 0,
;    End    of    data    for    load    case    [L1]
--------------------------
*USE-STLD, W-LO
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
      1, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
```

```
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
8.397, 1, 8.397, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     10, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     11, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
     12, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-LO]
--------------------------
*USE-STLD, W-TR
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    1, 39.186, 0, 0, 0, 0, 0,
    3, 356.675, 0, 0, 0, 829.27, 0,
   10, 356.675, 0, 0, 0, 829.27, 0,
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
     12, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
3.9, 1, 3.9, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-TR]
--------------------------
*USE-STLD, WL
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    3, 41.25, 0, 0, 0, 297.537, 0,
   10, 41.25, 0, 0, 0, 297.537, 0,
; End of data for load case [WL]
--------------------------
*LOADCOMB    ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE   ; line 1
;                    ANAL1, LCNAME1, FACT1, ...
                ; from line 2
    NAME=ULB01, GEN, ACTIVE, 0, 0, , 0, 0
          ST, D, 1.3, ST, L1, 2.15
    NAME=ULB03(교직), GEN, ACTIVE, 0, 0, , 0, 0
          ST, D, 1.3, ST, W-TR, 1.3
    NAME=ULB03(교축), GEN, ACTIVE, 0, 0, , 0, 0
          ST, D, 1.3, ST, W-LO, 1.3
*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)
 CB, ULB01, 0, 128, 255, 255, 192, 160, 210, 210, 210
 CB, ULB03(교직), 0, 157, 192, 93, 255, 87, 255, 87,
128
 CB, ULB03(교축), 192, 0, 192, 192, 0, 128, 192, 0, 192
 ST, D, 78, 0, 255, 255, 255, 87, 255, 0, 128
 ST, L1, 255, 87, 128, 255, 192, 160, 192, 0, 192
 ST, W-LO, 210, 210, 210, 212, 160, 255, 192, 128, 0
 ST, W-TR, 128, 192, 0, 255, 192, 160, 160, 192, 255
 ST, WL, 255, 255, 87, 0, 128, 255, 160, 192, 255
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR,
bTPF, bCSO, bSCS, bCLATS
   YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO,
NO, YES
*ENDDATA
```

■ 남천교 부산방향(P4) 하부 input

```
;---------------------------------------------------------------------------
;  MIDAS/Civil Text(MCT) File.
;  Date : 2016/1/10
;---------------------------------------------------------------------------
*VERSION
   8.4.5
*UNIT    ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
   KN   , M, J, C
*STRUCTYPE    ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER, bALIGNBEAM, bALIGNSLAB, bROTRIGID
     0, 1, 1, NO, YES, 9.806, 0, NO, NO, NO
*REBAR-MATL-CODE    ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
 KS01-Civil(RC), SD300, KS01-Civil(RC), SD300
*NODE    ; Nodes
; iNO, X, Y, Z
     1, 0, 0, 29.485
     2, 0.015, 0, 29.485
     3, 1.6, 0, 29.485
     4, 3.185, 0, 29.485
     5, 4.8, 0, 29.485
     6, 5.2, 0, 29.485
     7, 5.8, 0, 29.485
     8, 6.2, 0, 29.485
     9, 7.815, 0, 29.485
    10, 9.4, 0, 29.485
    11, 10.985, 0, 29.485
    12, 11, 0, 29.485
    13, 1.6, 0, 0
    14, 9.4, 0, 0
*ELEMENT    ; Elements
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ; Comp/Tens Truss
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS    ; Planar Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8     ; Solid  Element
; iEL, TYPE, iMAT, iPRO, iN1, iN2, REF, RPX, RPY, RPZ, iSUB, EXVAL  ; Frame(Ref. Point)
     1, BEAM  ,    1,     9,     1,     2,     0,     0
     2, BEAM  ,    1,    14,     2,     3,     0,     0
     3, BEAM  ,    1,    14,     3,     4,     0,     0
     4, BEAM  ,    1,    10,     4,     5,     0,     0
     5, BEAM  ,    1,    11,     5,     6,     0,     0
     6, BEAM  ,    1,    11,     6,     7,     0,     0
     7, BEAM  ,    1,    11,     7,     8,     0,     0
     8, BEAM  ,    1,    12,     8,     9,     0,     0
     9, BEAM  ,    1,    15,     9,    10,     0,     0
    10, BEAM  ,    1,    15,    10,    11,     0,     0
    11, BEAM  ,    1,    13,    11,    12,     0,     0
    12, BEAM  ,    2,    16,     3,    13,     0,     0
    13, BEAM  ,    2,    16,    10,    14,     0,     0
*MATERIAL    ; Material
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]           ; STEEL, CONC, USER
; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2], [DATA2] ; SRC
; [DATA1] : 1, DB, NAME, CODE
; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS
; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS    ; Orthotropic
; [DATA2] : 1, DB, NAME, CODE or 2, ELAST, POISN, THERMAL, DEN, MASS
    1, USER , CONC1              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     0
    2, USER , CONC2              , 0, 0, , C, NO, 0, 2, 2.5811e+007,  0.15, 1.0000e-005,    25,     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
*SECTION    ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1], [DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                          D1, D2, [SRC]                       ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB, NAME1, NAME2, D1, D2         ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11, D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR, izVAR, STYPE                ; 1st 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, 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, SHAPE                                      ; 1st line - COMPOSITE-SB
;               Hw, tw, B, Bf1, tf1, B2, Bf2, tf2                              ; 2nd line
;                     N1, N2, Hr, Hr2, tr1, tr2                                ; 3rd line
;       SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh        ; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE                                      ; 1st line - COMPOSITE-SI
;                       Hw, tw, B, tf1, B2, tf2                                ; 2nd line
;       SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh        ; 3rd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE                                      ; 1st line - PSC
;                                   OPT1, OPT2, [JOINT]                        ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE                     ; 3rd line
;      bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF, [STIFF]                      ; 4th line
;                                                 [SIZE-A]                     ; 5th line
;                                                 [SIZE-B]                     ; 6th line
;                                                 [SIZE-C]                     ; 7th line
;                                                 [SIZE-D]                     ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED  , TAP1            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
       4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0, 0
   10, TAPERED  , TAP2            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
       4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED  , TAP3            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
       3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED  , TAP4            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
       3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED  , TAP5            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SR , 2, 1, USER
       4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   14, TAPERED  , TAP6            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
       3.42053, 3.42053, 0, 0, 0, 0, 0, 0
           11.7, 0, 0, 100, 100, 100
           0, 0, 0, 0, 0, 0, 0, 0,  0, 0
           0, 0, 0, 0, 0, 0, 0, 0, 0, 0
       3.42053, 3.42053, 0, 0, 0, 0, 0, 0
           11.7, 0, 0, 100, 100, 100
           0, 0, 0, 0, 0, 0, 0, 0,  0, 0
           0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED  , TAP7            , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 2, 1, VALUE
       3.56931, 3.56931, 0, 0, 0, 0, 0, 0
           12.74, 0, 0, 100, 100, 100
           0, 0, 0, 0, 0, 0, 0, 0,  0, 0
           0, 0, 0, 0, 0, 0, 0, 0, 0, 0
       3.56931, 3.56931, 0, 0, 0, 0, 0, 0
           12.74, 0, 0, 100, 100, 100
           0, 0, 0, 0, 0, 0, 0, 0,  0, 0
           0, 0, 0, 0, 0, 0, 0, 0, 0, 0
```

```
   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
             0, 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
    9, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   10, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   11, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   12, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   13, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   14, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   15, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
   16, 255,    0,    0,     0, 255,    0,    0,    0, 255,
NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],
[DATA2]                    ; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, 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, SHAPE, ELAST,
DEN, POIS, POIC, SF, THERMAL ; 1st line - SRC
;                                D1,    D2,    [SRC]
                    ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,
NAME1, NAME2, D1, D2          ; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,
D12, D13, D14, D15, D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, iyVAR,
izVAR, STYPE                ; 1st 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, 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,  SHAPE
                    ; 1st line - COMPOSITE-SB
;                Hw,  tw,  B,  Bf1,  tf1,  B2,  Bf2,  tf2
                    ; 2nd line
;                    N1,    N2,    Hr,    Hr2,    tr1,    tr2
                    ; 3rd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 4th line
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  SHAPE
                    ; 1st line - COMPOSITE-SI
;                  Hw,  tw,  B,  tf1,  B2,  tf2
                    ; 2nd line
;        SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMulti, Elong, Esh          ; 3rd line
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  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,  SHAPE
                    ; 1st line - PSC
;                                OPT1,    OPT2,    [JOINT]
                    ; 2nd line
;          bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
bSIDEHOLE                    ; 3rd line
;       bUSERDEFMESHSIZE, MESHSIZE, bUSERINPSTIFF,
[STIFF]                    ; 4th line
;                                [SIZE-A]
                    ; 5th line
;                                [SIZE-B]
                    ; 6th line
;                                [SIZE-C]
                    ; 7th line
;                                [SIZE-D]
                    ; 8th 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
; [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, Ixx, Iyy, Izz
; [SCHK]   : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT]     : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
    9, TAPERED    , TAP1                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  4.5, 2.6, 0, 0, 0, 0, 0,
0
   10, TAPERED    , TAP2                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.5, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   11, TAPERED    , TAP3                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  3, 2.6, 0, 0, 0, 0, 0, 0
   12, TAPERED    , TAP4                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        3, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0, 0
   13, TAPERED    , TAP5                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SR , 2, 1, USER
        4.9, 2.6, 0, 0, 0, 0, 0, 0,  4.9, 2.6, 0, 0, 0, 0, 0,
0
   14, TAPERED    , TAP6                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.42053, 3.42053, 0, 0, 0, 0, 0, 0
             11.7, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   15, TAPERED    , TAP7                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        3.56931, 3.56931, 0, 0, 0, 0, 0, 0
             12.74, 0, 0, 100, 100, 100
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
   16, TAPERED    , TAP8                  , CC, 0, 0, 0, 0,
0, 0, 0, 0, YES, SB , 2, 1, VALUE
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
        2.87102, 2.87102, 0, 0, 0, 0, 0, 0
             8.24274, 0, 0, 8.32802, 6.91793, 4.56924
             0, 0, 0, 0, 0, 0, 0, 0,  0, 0
             0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE    ; Static Load Cases
; LCNAME, LCTYPE, DESC
   D     , USER,
   L1    , USER,
   W-LO  , USER,
   W-TR  , USER,
   WL    , USER,
*CONSTRAINT    ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
   13 14, 111111,
*OFFSET    ; Beam End Offsets
; ELEM_LIST, TYPE, RGDXi, RGDYi, RGDZi, RGDXj,
RGDYj, RGDZj, GROUP  ; TYPE=GLOBAL
;    ELEM_LIST,    TYPE,    RGDi,    RGDj,    GROUP
                    ; TYPE=ELEMENT
    12, ELEMENT, 1.71025, 0,
    13, ELEMENT, 1.78465, 0,
*USE-STLD, D
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -4572.56, 0, 0, 0,
  10, 0, 0, -4437.37, 0, 0, 0,
;    End    of    data    for    load    case    [D]
--------------------------
*USE-STLD, L1
*CONLOAD    ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
   3, 0, 0, -782.879, 0, 0, 0,
  10, 0, 0, -629.426, 0, 0, 0,
;    End    of    data    for    load    case    [L1]
--------------------------
*USE-STLD, W-LO
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
      1, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
```

```
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
      2, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      3, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
      4, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      5, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      6, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
8.397, 1, 8.397, 0, 0, 0, 0, , NO, 0, 0, NO,
      7, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
5.598, 1, 5.598, 0, 0, 0, 0, , NO, 0, 0, NO,
      8, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
22.6019, 1, 22.6019, 0, 0, 0, 0, , NO, 0, 0, NO,
      9, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     10, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
44.3642, 1, 44.3642, 0, 0, 0, 0, , NO, 0, 0, NO,
     11, LINE    , UNILOAD, GY, NO , NO, aDir[1], , , , 0,
0.209925, 1, 0.209925, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-LO]
--------------------------
*USE-STLD, W-TR
*CONLOAD     ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    1, 39.186, 0, 0, 0, 0, 0,
    3, 356.675, 0, 0, 0, 829.27, 0,
   10, 356.675, 0, 0, 0, 829.27, 0,
*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, ADDITIONAL_I-END,
ADDITIONAL_J-END, bADDITIONAL_J-END
     12, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
7.8, 1, 7.8, 0, 0, 0, 0, , NO, 0, 0, NO,
     13, LINE    , UNILOAD, GX, NO , NO, aDir[1], , , , 0,
3.9, 1, 3.9, 0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [W-TR]
--------------------------
*USE-STLD, WL
*CONLOAD     ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    3, 41.25, 0, 0, 0, 297.537, 0,
   10, 41.25, 0, 0, 0, 297.537, 0,
; End of data for load case [WL]
--------------------------
*LOADCOMB     ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE    ; line 1
;                    ANAL1, LCNAME1, FACT1, ...
                ; from line 2
    NAME=ULB01, GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, L1, 2.15
    NAME=ULB03(교직), GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, W-TR, 1.3
    NAME=ULB03(교축), GEN, ACTIVE, 0, 0, , 0, 0
         ST, D, 1.3, ST, W-LO, 1.3
*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)
 CB, ULB01, 0, 128, 255, 255, 192, 160, 210, 210, 210
 CB, ULB03(교직), 0, 157, 192, 93, 255, 87, 255, 87,
128
 CB, ULB03(교축), 192, 0, 192, 192, 0, 128, 192, 0, 192
 ST, D, 78, 0, 255, 255, 255, 87, 255, 0, 128
 ST, L1, 255, 87, 128, 255, 192, 160, 192, 0, 192
 ST, W-LO, 210, 210, 210, 212, 160, 255, 192, 128, 0
 ST, W-TR, 128, 192, 0, 255, 192, 160, 160, 192, 255
 ST, WL, 255, 255, 87, 0, 128, 255, 160, 192, 255
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR,
bTPF, bCSO, bSCS, bCLATS
    YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO,
NO, YES
*ENDDATA
```