

a. 상부구조

1) 종방향

*UNIT : Unit System
; FORCE, LENGTH, HEAT, TEMPER
N, MM, KCAL, C

; iNO, X, Y, Z

1, 0, 0, 0
2, 2500, 0, 0
3, 5000, 0, 0
4, 7500, 0, 0
5, 10000, 0, 0
6, 12500, 0, 0
7, 15000, 0, 0
8, 17500, 0, 0
9, 20000, 0, 0
10, 22500, 0, 0
11, 25000, 0, 0
12, 27500, 0, 0
13, 30000, 0, 0
14, 32500, 0, 0
15, 35000, 0, 0
16, 37500, 0, 0
17, 40000, 0, 0
18, 42500, 0, 0
19, 45000, 0, 0
20, 47500, 0, 0
21, 50000, 0, 0
22, 52500, 0, 0
23, 55000, 0, 0
24, 57500, 0, 0
25, 60000, 0, 0
26, 62500, 0, 0
27, 65000, 0, 0
28, 67500, 0, 0
29, 70000, 0, 0
30, 72500, 0, 0
31, 75000, 0, 0
32, 77500, 0, 0
33, 80000, 0, 0
34, 82500, 0, 0
35, 85000, 0, 0
36, 87500, 0, 0
37, 90000, 0, 0
38, 92500, 0, 0
39, 95000, 0, 0
40, 97500, 0, 0
41, 100000, 0, 0
42, 102500, 0, 0
43, 105000, 0, 0
44, 107500, 0, 0
45, 110000, 0, 0
46, 112500, 0, 0
47, 115000, 0, 0
48, 117500, 0, 0
49, 120000, 0, 0
50, 122500, 0, 0
51, 125000, 0, 0
52, 127500, 0, 0
53, 130000, 0, 0
54, 132500, 0, 0
55, 135000, 0, 0
56, 137500, 0, 0
57, 140000, 0, 0
58, 142500, 0, 0
59, 145000, 0, 0
60, 147500, 0, 0
61, 150000, 0, 0

445, 1145000, 0, 0
446, 0, 0, -1000
447, 2500, 0, -1000
448, 5000, 0, -1000
449, 7500, 0, -1000
450, 10000, 0, -1000
451, 12500, 0, -1000
452, 15000, 0, -1000
453, 17500, 0, -1000
454, 20000, 0, -1000
455, 22500, 0, -1000
456, 25000, 0, -1000
457, 27500, 0, -1000
458, 30000, 0, -1000
459, 32500, 0, -1000
460, 35000, 0, -1000
461, 37500, 0, -1000
462, 40000, 0, -1000
463, 42500, 0, -1000
464, 45000, 0, -1000
465, 47500, 0, -1000
466, 50000, 0, -1000
467, 52500, 0, -1000
468, 55000, 0, -1000
877, 1077500, 0, -1000
878, 1080000, 0, -1000
879, 1082500, 0, -1000
880, 1085000, 0, -1000
881, 1087500, 0, -1000
882, 1090000, 0, -1000
883, 1092500, 0, -1000
884, 1102500, 0, -1000
885, 1112500, 0, -1000
886, 1117500, 0, -1000
887, 1127500, 0, -1000
888, 1137500, 0, -1000
889, 1142500, 0, -1000
890, 1145000, 0, -1000

*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
; Planar Element
; IEL, TYPE, IMAT, IPRO, IN1, IN2, IN3, IN4, IN5, IN6, IN7,
IN8 : Solid Element
; IEL, TYPE, IMAT, IPRO, IN1, IN2, REF, RPX, RPY, RPZ,
ISUB, EXVAL : Frame(Ref. Point)

1, BEAM, 1, 1, 1, 2, 0
2, BEAM, 1, 1, 2, 3, 0
3, BEAM, 1, 1, 3, 4, 0
4, BEAM, 1, 1, 4, 5, 0
5, BEAM, 1, 1, 5, 6, 0
6, BEAM, 1, 1, 6, 7, 0
7, BEAM, 1, 1, 7, 8, 0
8, BEAM, 1, 1, 8, 9, 0
9, BEAM, 1, 1, 9, 10, 0
10, BEAM, 1, 1, 10, 11, 0
11, BEAM, 1, 1, 11, 12, 0
12, BEAM, 1, 1, 12, 13, 0
13, BEAM, 1, 1, 13, 14, 0
14, BEAM, 1, 1, 14, 15, 0
15, BEAM, 1, 1, 15, 16, 0
16, BEAM, 1, 1, 16, 17, 0
17, BEAM, 1, 1, 17, 18, 0
18, BEAM, 2, 28, 18, 19, 0
19, BEAM, 2, 28, 19, 20, 0
20, BEAM, 2, 28, 20, 21, 0
21, BEAM, 2, 28, 21, 22, 0
22, BEAM, 2, 20, 22, 23, 0
23, BEAM, 2, 20, 23, 24, 0

24, BEAM, 2, 20, 24, 25, 0
25, BEAM, 2, 20, 25, 26, 0
26, BEAM, 2, 20, 26, 27, 0
27, BEAM, 2, 20, 27, 28, 0
28, BEAM, 2, 20, 28, 29, 0
29, BEAM, 2, 20, 29, 30, 0
30, BEAM, 2, 20, 30, 31, 0
31, BEAM, 2, 20, 31, 32, 0
32, BEAM, 2, 20, 32, 33, 0
33, BEAM, 2, 20, 33, 34, 0
254, BEAM, 22, 254, 255, 0
255, BEAM, 22, 255, 256, 0
256, BEAM, 26, 256, 257, 0
257, BEAM, 26, 257, 258, 0
258, BEAM, 26, 258, 259, 0
259, BEAM, 26, 259, 260, 0
260, BEAM, 26, 260, 261, 0
261, BEAM, 26, 261, 262, 0
262, BEAM, 26, 262, 263, 0
263, BEAM, 26, 263, 264, 0
264, BEAM, 22, 264, 265, 0
265, BEAM, 22, 265, 266, 0
266, BEAM, 22, 266, 267, 0
267, BEAM, 22, 267, 268, 0
268, BEAM, 22, 268, 269, 0
269, BEAM, 22, 269, 270, 0
270, BEAM, 22, 270, 271, 0
271, BEAM, 22, 271, 272, 0
272, BEAM, 22, 272, 273, 0
273, BEAM, 22, 273, 274, 0
274, BEAM, 22, 274, 275, 0
275, BEAM, 22, 275, 276, 0
276, BEAM, 22, 276, 277, 0
277, BEAM, 22, 277, 278, 0
278, BEAM, 26, 278, 279, 0
279, BEAM, 26, 279, 280, 0
280, BEAM, 26, 280, 281, 0
281, BEAM, 26, 281, 282, 0
282, BEAM, 26, 282, 283, 0
283, BEAM, 26, 283, 284, 0
284, BEAM, 26, 284, 285, 0
285, BEAM, 26, 285, 286, 0
286, BEAM, 22, 286, 287, 0
287, BEAM, 22, 287, 288, 0
291, BEAM, 22, 291, 292, 0
292, BEAM, 22, 292, 293, 0
293, BEAM, 22, 293, 294, 0
394, BEAM, 2, 26, 394, 395, 0
395, BEAM, 2, 26, 395, 396, 0
396, BEAM, 2, 26, 396, 397, 0
397, BEAM, 2, 26, 397, 398, 0
398, BEAM, 2, 25, 398, 399, 0
399, BEAM, 2, 25, 399, 400, 0
400, BEAM, 2, 25, 400, 401, 0
401, BEAM, 2, 25, 401, 402, 0
402, BEAM, 2, 21, 402, 403, 0
403, BEAM, 2, 21, 403, 404, 0
404, BEAM, 2, 21, 404, 405, 0
405, BEAM, 2, 21, 405, 406, 0
406, BEAM, 2, 21, 406, 407, 0
407, BEAM, 2, 21, 407, 408, 0
408, BEAM, 2, 21, 408, 409, 0
409, BEAM, 2, 21, 409, 410, 0
410, BEAM, 2, 21, 410, 411, 0
411, BEAM, 2, 21, 411, 412, 0
412, BEAM, 2, 21, 412, 413, 0
413, BEAM, 2, 21, 413, 414, 0
414, BEAM, 2, 25, 414, 415, 0
415, BEAM, 2, 25, 415, 416, 0
416, BEAM, 2, 25, 416, 417, 0
417, BEAM, 2, 25, 417, 418, 0
418, BEAM, 2, 24, 418, 419, 0
419, BEAM, 2, 24, 419, 420, 0

420, BEAM, 2, 24, 420, 421, 0
421, BEAM, 2, 24, 421, 422, 0
422, BEAM, 2, 20, 422, 423, 0
423, BEAM, 2, 20, 423, 424, 0
424, BEAM, 2, 20, 424, 425, 0
425, BEAM, 2, 20, 425, 426, 0
426, BEAM, 2, 20, 426, 427, 0
427, BEAM, 2, 20, 427, 428, 0
428, BEAM, 2, 20, 428, 429, 0
429, BEAM, 2, 20, 429, 430, 0
430, BEAM, 2, 20, 430, 431, 0
431, BEAM, 2, 20, 431, 432, 0
432, BEAM, 2, 20, 432, 433, 0
433, BEAM, 2, 20, 433, 434, 0
434, BEAM, 2, 28, 434, 435, 0
435, BEAM, 2, 28, 435, 436, 0
436, BEAM, 2, 28, 436, 437, 0
437, BEAM, 2, 28, 437, 438, 0

*GROUP : Group
; NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE
Nose, 1to18 446to463, 1to17, 0
Segment1, 18to23 463to468, 18to22, 0
Segment2, 23to33 468to478, 23to32, 0
Segment3, 33to43 478to488, 33to42, 0
Segment4, 43to53 488to498, 43to52, 0
Segment5, 53to63 498to508, 53to62, 0
Segment6, 63to73 508to518, 63to72, 0
Segment7, 73to83 518to528, 73to82, 0
Segment8, 83to93 528to538, 83to92, 0
Segment9, 93to103 538to548, 93to102, 0
Segment10, 103to113 548to558, 103to112, 0
Segment11, 113to123 558to568, 113to122, 0
Segment12, 123to133 568to578, 123to132, 0
Segment13, 133to143 578to588, 133to142, 0
Segment14, 143to153 588to598, 143to152, 0
Segment15, 153to163 598to608, 153to162, 0
Segment16, 163to173 608to618, 163to172, 0
Segment17, 173to183 618to628, 173to182, 0
Segment18, 183to193 628to638, 183to192, 0
Segment19, 193to203 638to648, 193to202, 0
Segment20, 203to213 648to658, 203to212, 0
Segment21, 213to223 658to668, 213to222, 0
Segment22, 223to233 668to678, 223to232, 0
Segment23, 233to243 678to688, 233to242, 0
Segment24, 243to254 688to699, 243to253, 0
Segment25, 254to265 699to710, 254to264, 0
Segment26, 265to276 710to721, 265to275, 0
Segment27, 276to287 721to732, 276to286, 0
Segment28, 287to298 732to743, 287to297, 0
Segment29, 298to308 743to753, 298to307, 0
Segment30, 308to316 753to761, 308to315, 0
Segment31, 316to324 761to769, 316to323, 0
Segment32, 324to332 769to777, 324to331, 0
Segment33, 332to340 777to785, 332to339, 0
Segment34, 340to348 785to793, 340to347, 0
Segment35, 348to356 793to801, 348to355, 0
Segment36, 356to364 801to809, 356to363, 0
Segment37, 364to372 809to817, 364to371, 0
Segment38, 372to381 817to826, 372to380, 0
Segment39, 381to392 826to837, 381to391, 0
Segment40, 392to403 837to848, 392to402, 0
Segment41, 403to413 848to858, 403to412, 0
Segment42, 413to423 858to868, 413to422, 0
Segment43, 423to433 868to878, 423to432, 0
Segment44, 433to438 878to883, 433to437, 0
BridgeGirder, 18to437, 0

*BNDR-GROUP : Boundary Group
; NAME
Final
Temporary
CS1-Dfm0

CS1-Org0	TB-Prestress1	: TYPE=CODE(CEB-FIP, Ohzagi)	; OPT1, OPT2, [JOINT]
CS1-Dfm1	TB-Prestress2	: NAME=NAME, TYPE, CODE, STRENGTH	; 2nd line(STYPE=PSC)
CS1-Org1	TB-Prestress3	: TYPE=CODE(Chinese Standard)	; ELAST, DEN, POIS, POIC
CS1-Dfm2	TB-Prestress4	: NAME=NAME, TYPE, CODE, STRENGTH, BUSE, [DATA]	; 2nd line(STYPE=PSC-CMPW)
CS1-Org2	TB-Prestress5	: TYPE=CODE(Japan(Hydration))	; bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I],
CS1-Dfm3	TB-Prestress6	: NAME=NAME, TYPE, CODE, STRENGTH, ITYPE	[WT-J], Wl, WJ, bSYM, bSIDEHOLE : 3rd line(STYPE=PSC)
CS1-Org3	TB-Prestress7	: TYPE=CODE(Japan(Elastic))	; bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I],
CS1-Dfm4	TB-Prestress8	: NAME=NAME, TYPE, CODE, STRENGTH	[CMPWEB-J] : 3rd
CS1-Org4	TB-Prestress9	: TYPE=CODE(INDIA(IRC:18-2000))	line(STYPE=PSC-CMPW)
CS1-Dfm5	TB-Prestress10	: NAME=NAME, TYPE, CODE, STRENGTH, ICTYPE	; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF,
CS1-Org5	TB-Prestress11	: TYPE=CODE(European)	[STIFF-I], [STIFF-J] : 4th line(STYPE=PSC)
CS2-Dfm0	TB-Prestress12	: NAME=NAME, TYPE, CODE, STRENGTH,	; [SIZE-A]-i
CS2-Org0	TB-Prestress13	: TYPE=CODE(CEB-FIP(1978))	; 5th line(STYPE=PSC)
CS2-Dfm1	TB-Prestress14	: NAME=NAME, TYPE, SCALE	; [SIZE-B]-i
CS2-Org1	TB-Prestress15	: TYPE=USER(line 1)	; 6th line(STYPE=PSC)
CS2-Dfm2	TB-Prestress16	; DAY1, COMP1, TENS1, ELAST1, DAY2, COMP2, ... ;	; 7th line(STYPE=PSC)
CS2-Org2	TB-Prestress17	: USER(from line 2)	; [SIZE-C]-i
CS2-Dfm3	TB-Prestress18	; [DATA] : A, B, D, TSF or ICTYPE, TSF	; 8th line(STYPE=PSC)
CS2-Org3	TB-Prestress19	: NAME=C400, CODE, CEB-FIP, 39.2266, 2	; [SIZE-D]-i
CS2-Dfm4	TB-Prestress20		; 9th line(STYPE=PSC)
CS2-Org4	TB-Prestress21	*TDM-LINK : Time Dependent Material Link	; [SIZE-A]-j
CS2-Org4P	TB-Prestress22	: iMAT, TDM-TYPE1(CREEP/SHRINKAGE),	; [SIZE-B]-j
CS2-Dfm5	TB-Prestress23	TDM-TYPE2(ELASTICITY)	; 10th line(STYPE=PSC)
CS2-Org5	TB-Prestress24	: 2, C400, C400	; [SIZE-C]-j
CS41-Org3	TB-Prestress25		; 11th line(STYPE=PSC)
CS41-Dfm4	TB-Prestress26	*ELEM-DEPMATL : Change Element Dependent Material	; [SIZE-D]-j
CS41-Org4	TB-Prestress27	Property	; 12th line(STYPE=PSC)
CS41-Org4P	TB-Prestress28	: ELEM_LIST, TYPE, H(VS)	; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
CS41-Dfm5	TB-Prestress29	: 18to437, NSM, 491.938	bMULTI, EsEc-L, EsEc-S : 2nd
CS41-Org5	TB-Prestress30		line(STYPE=CMP-B/I)
CS42-Dfm0	TB-Prestress31	*SECTION : Section	; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i
CS42-Org0	TB-Prestress32	: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, [DATA1],	; 3rd line(STYPE=CMP-B/I)
CS42-Dfm1	TB-Prestress33	[DATA2] : 1st line - DB/USER	; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j
CS42-Org1	TB-Prestress34	: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, BLT, D1,	; 4th line(STYPE=CMP-B/I)
CS42-Dfm2	TB-Prestress35	..., D8, iCEL : 1st line - VALUE	; N1, N2, Hr, Hr2, tr1, tr2
CS42-Org2	TB-Prestress36	: AREA, ASy, ASz, lxx, lyy, lzz	; 5th line(STYPE=CMP-B)
CS42-Dfm3	TB-Prestress37	: 2nd line	; GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb,
CS42-Org3	TB-Prestress38	: CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT,	bSYM, SW_i, SW_j : 2nd line(STYPE=CMP-CI/CT)
CS42-Dfm4	TB-Prestress39	: PERI_IN, Cy, Cz : 3rd line	; OPT1, OPT2, [JOINT]
CS42-Org4	TB-Prestress40	: Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz	; 3rd line(STYPE=CMP-CI/CT)
CS42-Dfm5	TB-Prestress41	: 4th line	; [SIZE-A]-i
CS42-Org5	TB-Prestress42	: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, ELAST,	; 4th line(STYPE=CMP-CI/CT)
CS43-Dfm0	TB-Prestress43	DEN, POIS, POIC, SF : 1st line - SRC	; [SIZE-B]-i
CS43-Org0	TB-Prestress44	: D1, D2, [SRC]	; 5th line(STYPE=CMP-CI/CT)
CS43-Dfm1	Web-Prestress	: 2nd line	; [SIZE-C]-i
CS43-Org1	Diaphragm1	: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 1, DB,	; 6th line(STYPE=CMP-CI/CT)
CS43-Dfm2	Diaphragm2	NAME1, NAME2, D1, D2 : 1st line - COMBINED	; [SIZE-D]-i
CS43-Org2	Diaphragm3	: ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE, 2, D11,	; 7th line(STYPE=CMP-CI/CT)
CS43-Dfm3	2nd	D12, D13, D14, D15, D21, D22, D23, D24	; [SIZE-A]-j
CS43-Org3		: ISEC, TYPE, SNAME, [OFFSET2], bSD, SHAPE, lyVAR,	; 8th line(STYPE=CMP-CI/CT)
CS43-Dfm4		lzVAR, STYPE : 1st line - TAPERED	; [SIZE-B]-j
CS43-Org4		: DB, NAME1, NAME2	; 9th line(STYPE=CMP-CI/CT)
CS43-Org4P		: 2nd line(STYPE=DB)	; [SIZE-C]-j
CS43-Dfm5		: [DIM1], [DIM2]	; 10th line(STYPE=CMP-CI/CT)
CS43-Org5		: 2nd line(STYPE=USER)	; [SIZE-D]-j
CS44-Dfm0		: D11, D12, D13, D14, D15, D16, D17, D18	; 11th line(STYPE=CMP-CI/CT)
CS44-Org0		: 2nd line(STYPE=VALUE)	; ISEC, TYPE, SNAME, [OFFSET], bSD, STYPE1, STYPE2
CS44-Dfm1		: AREA1, ASy1, ASz1, lxx1, lyy1, lzz1	; 1st line - CONSTRUCT
CS44-Org1		: 3rd line(STYPE=VALUE)	; SHAPE, ...(same with other type data from shape)
CS44-Dfm2		: CyP1, CyM1, CzP1, CzM1, QyB1, QzB1,	; Before (STYPE1)
CS44-Org2		: PERI_OUT1, PERI_IN1, Cy1, Cz1	; SHAPE, ...(same with other type data from shape)
CS44-Dfm3		: 4th line(STYPE=VALUE)	; After (STYPE2)
CS44-Org3		: Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1,	; ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE
CS44-Dfm4		: Zyy2	; 1st line - COMPOSITE-SB
CS44-Org4		: D21, D22, D23, D24, D25, D26, D27, D28	; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
CS44-Dfm5		: 6th line(STYPE=VALUE)	; 2nd line
CS45-Org0		: AREA2, ASy2, ASz2, lxx2, lyy2, lzz2	; N1, N2, Hr, Hr2, tr1, tr2
CS46-Org0		: 7th line(STYPE=VALUE)	; 3rd line
		: CyP2, CyM2, CzP2, CzM2, QyB2, QzB2,	; SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
		: PERI_OUT2, PERI_IN2, Cy2, Cz2	bMulti, Elong, Esh : 4th line
		: Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2,	; ISEC, TYPE, SNAME, [OFFSET], bSD, SHAPE
		: Zzz2	; 1st line - COMPOSITE-SI
			; Hw, tw, B, tf1, B2, tf2

*LOAD-GROUP : Load Group	*TDM-ELAST : Time Dependent Material(Comp. Strength)
: NAME	: NAME=NAME, TYPE, CODE, STRENGTH, A, B
SelfWeight	: TYPE=CODE(Korean Standard, ACI)
	: NAME=NAME, TYPE, CODE, STRENGTH, ICTYPE

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; 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
; bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF,
[STIFF] ; 4th line
; 5th line
; [SIZE-A]
; 6th line
; [SIZE-B]
; 7th line
; [SIZE-C]
; 8th line
; [SIZE-D]
; [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, lxx, lyy, lzz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1,
bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
1, TAPERED , Nose , CB, 1, 0, 0, 0, 0,
0, 0, 0, YES, H , 1, 1, USER
1500, 800, 40, 30, 800, 30, 0, 0, 3500, 1600, 40,
30, 1600, 30, 0, 0
2, PSC , Girder , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
26, PSC , IS-IBS-55 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
27, PSC , IS-IBS-60 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,

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0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
21, PSC , T-IBS-50 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
22, PSC , T-IBS-55 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
23, PSC , T-IBS-60 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
24, PSC , IS-EBS-50 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
25, PSC , IS-IBS-50 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
26, PSC , IS-IBS-55 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
27, PSC , IS-IBS-60 , CB, 1, 0, 0, 0, 0, 0,
0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,

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0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 0
28, PSC , ES-EBS-50 , CB, 1, 0, 0, 0, 0,
0, 0, YES, 1CEL
YES, YES, YES, YES, YES, YES, YES, YES, NO
YES, YES, 2799, YES, 764, YES, 0, YES, 0, YES,
0, YES, 0, 200, YES, NO
NO, , NO, , , , ,
200, 544, 50, 250, 2756, 650
2929, 1450, 2850, 572, 0, 2800
280, 422, 0, 165, 2035, 492, 364, 0, 0, 400
2800, 1100, 2571, 2800, 2381, 0, 1781, 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, lxx, lyy, lzz
; 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 ; 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, lxx1, lyy1, lzz1
; 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, lxx2, lyy2, lzz2
; 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
; 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)
bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF,
[STIFF-I], [STIFF-J] ; 4th line(STYPE=PSC)
; 5th line(STYPE=PSC)

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; 6th line(STYPE=PSC) [SIZE-B]-i
; 7th line(STYPE=PSC) [SIZE-C]-i
; 8th line(STYPE=PSC) [SIZE-D]-i
; 9th line(STYPE=PSC) [SIZE-A]-i
; 10th line(STYPE=PSC) [SIZE-B]-i
; 11th line(STYPE=PSC) [SIZE-C]-i
; 12th line(STYPE=PSC) [SIZE-D]-i
; 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)
; 4th line(STYPE=CMP-CI/CT) [SIZE-A]-i
; 5th line(STYPE=CMP-CI/CT) [SIZE-B]-i
; 6th line(STYPE=CMP-CI/CT) [SIZE-C]-i
; 7th line(STYPE=CMP-CI/CT) [SIZE-D]-i
; 8th line(STYPE=CMP-CI/CT) [SIZE-A]-j
; 9th line(STYPE=CMP-CI/CT) [SIZE-B]-j
; 10th line(STYPE=CMP-CI/CT) [SIZE-C]-j
; 11th line(STYPE=CMP-CI/CT) [SIZE-D]-j
; 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
; 3rd line [SIZE-A]
; 4th line [SIZE-B]
; 5th line [SIZE-C]

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NAME=BOT16-18, BT12, 340to355, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 847500, 115, 200, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=BOT16-19, BT12, 356to371, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 887500, 115, 200, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-1, TT7, 18to22, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 42500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 12500, 0, 0, NO, 0, 0, 0
 NAME=TOP1-10, TT7, 183to202, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 455000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 50000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-11, TT7, 203to222, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 505000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 50000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-12, TT7, 223to242, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 555000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 50000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-13, TT7, 243to264, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 605000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 55000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-14, TT7, 265to286, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 660000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 55000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-15, TT7, 287to307, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 715000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 52500, 0, 0, NO, 0, 0, 0
 NAME=TOP1-16, TT7, 308to323, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 767500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-17, TT7, 324to339, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 807500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-18, TT7, 340to355, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 847500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-19, TT7, 356to371, 0, 0, SPLINE, 3D

, USER, 0, 0, NO,
 STRAIGHT, 887500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 40000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-2, TT7, 23to42, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 55000, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 50000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-20, TT7, 372to391, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 927500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 50000, 0, 0, NO, 0, 0, 0
 NAME=TOP1-21, TT7, 392to412, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 977500, -4340, 3335, X, 0, 0
 0, YES, Y, 0
 0, 0, 0, NO, 0, 0, 0
 52500, 0, 0, NO, 0, 0, 0
 NAME=WEB1-1, WT19, 18to33, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 42500, 0, 2461, NO, 0, 0, 0
 67500, 0, 500, NO, 0, 0, 0
 82500, 0, 1878, NO, 0, 0, 0
 NAME=WEB1-10, WT19, 114to121, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 282500, 0, 1760, NO, 0, 0, 0
 287500, 0, 2740, NO, 0, 0, 0
 292500, 0, 3300, NO, 0, 0, 0
 297500, 0, 2740, NO, 0, 0, 0
 302500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-11, WT19, 122to133, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 302500, 0, 1760, NO, 0, 0, 0
 317500, 0, 500, NO, 0, 0, 0
 332500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-12, WT19, 134to141, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 332500, 0, 1760, NO, 0, 0, 0
 337500, 0, 2740, NO, 0, 0, 0
 342500, 0, 3300, NO, 0, 0, 0
 347500, 0, 2740, NO, 0, 0, 0
 352500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-13, WT19, 142to153, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 352500, 0, 1760, NO, 0, 0, 0
 367500, 0, 500, NO, 0, 0, 0
 382500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-14, WT19, 154to161, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 382500, 0, 1760, NO, 0, 0, 0
 387500, 0, 2740, NO, 0, 0, 0
 392500, 0, 3300, NO, 0, 0, 0
 397500, 0, 2740, NO, 0, 0, 0
 402500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-15, WT19, 162to173, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,

STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 402500, 0, 1760, NO, 0, 0, 0
 417500, 0, 500, NO, 0, 0, 0
 432500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-16, WT19, 174to181, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 432500, 0, 1760, NO, 0, 0, 0
 437500, 0, 2740, NO, 0, 0, 0
 442500, 0, 3300, NO, 0, 0, 0
 447500, 0, 2740, NO, 0, 0, 0
 452500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-17, WT19, 182to193, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 452500, 0, 1760, NO, 0, 0, 0
 467500, 0, 500, NO, 0, 0, 0
 482500, 0, 1760, NO, 0, 0, 0
 NAME=WEB1-18, WT19, 194to201, 0, 0, SPLINE, 3D
 , USER, 0, 0, NO,
 STRAIGHT, 0, -2399, 0, X, 0, 0
 15.154, YES, Y, 0
 482500, 0, 1760, NO, 0, 0, 0
 487500, 0, 2740, NO, 0, 0, 0
 492500, 0, 3300, NO, 0, 0, 0
 497500, 0, 2740, NO, 0, 0, 0
 502500, 0, 1760, NO, 0, 0, 0
 *STLDCASE : Static Load Cases
 : LCNAME, LCTYPE, DESC
 SelfWeight, CS, "Construction Stage, Self Weight"
 Prestress, CS, "Construction Stage, Tendon Prestress"
 2nd , CS,
 TG+ , TPG,
 TG- , TPG,
 Temp+, T ,
 Temp-, T ,
 W+ , W ,
 W- , W ,
 *CONSTRAINT : Supports
 : NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
 827 831 833 837, 111111, CS39-Dfm7
 819 823 825, 111111, CS38-Dfm8
 427, 100000, CS44-Dfm4
 423, 100000, CS43-Dfm5
 407 411 413 417 421 423, 010100, CS42-Org0
 399 403 405 409 413, 010100, CS41-Org1
 390, 100000, CS40-Dfm8
 388 392 394 398 402, 010100, CS40-Org2
 372, 100000, CS39-Dfm1
 364, 100000, CS38-Dfm2
 360, 100000, CS37-Dfm3
 354, 100000, CS36-Dfm4
 334 338 340 344 348, 010100, CS34-Org0
 328 332 334 338, 010100, CS33-Org1
 322 326 328 332, 010100, CS32-Org2
 316 320 322, 010100, CS31-Org3
 310 314 316, 010100, CS30-Org4
 294, 100000, CS29-Dfm3
 291 295 297, 010100, CS28-Org10
 281, 100000, CS28-Dfm4
 271, 100000, CS27-Dfm5
 261, 100000, CS26-Dfm6
 251, 100000, CS25-Dfm7
 241, 100000, CS24-Dfm8
 217 221 223 227 231 233, 010100, CS22-Org0
 209 213 215 219 223, 010100, CS21-Org1
 201 205 207 211, 010100, CS20-Org2
 185, 100000, CS19-Dfm1

177, 100000, CS18-Dfm2
169, 100000, CS17-Dfm3
161, 100000, CS16-Dfm4
153, 100000, CS15-Dfm5
137 141 143 147 151 153, 010100, CS14-Org0
129 133 135 139 143, 010100, CS13-Org1
121 125 127 131, 010100, CS12-Org2
113 117 119 123, 010100, CS11-Org3
105 109 111, 010100, CS10-Org4
91, 100000, CS9-Dfm4
83, 100000, CS8-Dfm5
23 45 67to139by24 161 181 201, 011100, CS20-Org4
19 43 67 89 109 129, 011100, CS13-Org3
19to91by24 113 133 153, 011100, CS16-Org0
19to199by20 221 243 265to337by24 359 379 399,
011100, CS41-Org3
17to83by22 107 131 155 177 197 217, 011100,
CS22-Org2
15to215by20 237 259 281to353by24 375 395 415,
011100, CS43-Org1
14to114by20 136 158 180to252by24 274 294 314,
011100, CS32-Org0
13 33to99by22 123 147 171 193 213 233, 011100,
CS24-Org0
11 35 59 81 101 121, 011100, CS12-Org4
11to83by24 105 125 145, 011100, CS15-Org1
9to75by22 99 123 147 169 189 209, 011100,
CS21-Org3
8, 011100, CS1-Org0
8to108by20 130 152 174to246by24 268 288 308,
011100, CS31-Org1
7to207by20 229 251 273to345by24 367 387 407,
011100, CS42-Org2
6to186by20 208 230 252to324by24 346 366 386,
826 830 832 836, 111111, CS39-Dfm6
818 822 824, 111111, CS38-Dfm7
735 739 741, 111111, CS28-Dfm9
426, 100000, CS44-Dfm3
421, 100000, CS43-Dfm4
413, 100000, CS42-Dfm5
397 401 403 407 411 413, 010100, CS41-Org0
389, 100000, CS40-Dfm7
387 391 393 397 401 403, 010100, CS40-Org1
371, 100000, CS39-Dfm0
363, 100000, CS38-Dfm1
358, 100000, CS37-Dfm2
352, 100000, CS36-Dfm3
346, 100000, CS35-Dfm4
326 330 332 336 340, 010100, CS33-Org0
320 324 326 330, 010100, CS32-Org1
314 318 320 324, 010100, CS31-Org2
308 312 314, 010100, CS30-Org3
292, 100000, CS29-Dfm2
281 285 287, 010100, CS27-Org11
280, 100000, CS28-Dfm3
270, 100000, CS27-Dfm4
260, 100000, CS26-Dfm5
259 263 265, 010100, CS25-Org11
250, 100000, CS25-Dfm6
240, 100000, CS24-Dfm7
207 211 213 217 221 223, 010100, CS21-Org0
199 203 205 209 213, 010100, CS20-Org1
183, 100000, CS19-Dfm0
175, 100000, CS18-Dfm1
167, 100000, CS17-Dfm2
159, 100000, CS16-Dfm3
151, 100000, CS15-Dfm4
143, 100000, CS14-Dfm5
127 131 133 137 141 143, 010100, CS13-Org0
119 123 125 129 133, 010100, CS12-Org1
111 115 117 121, 010100, CS11-Org2
103 107 109 113, 010100, CS10-Org3
89, 100000, CS9-Dfm3

```

81, 100000, CS8-Dfm4
73, 100000, CS7-Dfm5
25 49 71 91 111, 011100, CS11-Org4
25 49 73 95 115 135, 011100, CS14-Org1
21 43 65to137by24 159 179 199, 011100, CS20-Org3
20to100by20 122 144 166to238by24 260 280 300,
011100, CS30-Org1
17 41 63 83 103, 011100, CS10-Org5
17 41 65 87 107 127, 011100, CS13-Org2
17to197by20 219 241 263to335by24 357 377 397,
011100, CS41-Org2
15to81by22 105 129 153 175 195 215, 011100,
CS22-Org1
13to213by20 235 257 279to351by24 373 393 413,
011100, CS43-Org0
9 33 57 79 99 119, 011100, CS12-Org3
9to81by24 103 123 143, 011100, CS15-Org0
7to73by22 97 121 145 167 187 207, 011100,
CS21-Org2
6to106by20 128 150 172to244by24 266 286 306,
011100, CS31-Org0
5to185by20 207 229 251to323by24 345 365 385,
011100, CS40-Org3
5to205by20 227 249 271to343by24 365 385 405,
011100, CS42-Org1
3 23to89by22 113 137 161 183 203 223, 011100,
CS23-Org0

*ELASTICLINK
: INO, INODE1, INODE2, LINK, ANGLE, SDx, SDy, SDz,
SRx, SRy, SRz, bSHEAR, DRy, DRz, GROUP
: GEN
: INO, INODE1, INODE2, LINK, ANGLE, bSHEAR, DRy, DRz,
G R O U P
: RIGID
: INO, INODE1, INODE2, LINK, ANGLE, SDx, bSHEAR, DRy,
DRz, GROUP
: TENS,COMP
: INO, INODE1, INODE2, LINK, ANGLE, (UN)SYM, NUM,
DIST1, FORCE1, ... DIST10, FORCE10, DIR, bSHEAR,
DRENDI, GROUP : MULTI LINEAR
1, 439, 864, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
2, 440, 885, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
3, 441, 886, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
4, 442, 887, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
5, 443, 888, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
6, 444, 889, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
7, 445, 890, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, Temporary
8, 12, 457, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS1-Org0
9, 16, 461, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS1-Org0
10, 18, 463, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS1-Org0
11, 22, 467, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS1-Org0
1229, 428, 873, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org1
1230, 432, 877, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org1
1231, 434, 879, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org1
1232, 438, 883, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org1
1233, 429, 874, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org2

1234, 433, 878, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org2
1235, 435, 880, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org2
1236, 430, 875, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org3
1237, 434, 879, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org3
1238, 436, 881, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org3
1239, 431, 876, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org4
1240, 435, 880, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org4
1241, 437, 882, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org4
1242, 432, 877, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org5
1243, 436, 881, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org5
1244, 438, 883, COMP , 0, 9.80665e+010, NO,
0.5, 0.5, CS44-Org5

*USE-STLD, SelfWeight
: *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1, SelfWeight

*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
18, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-490.774, 0.8, -490.774, 0, 0, 0, 0, Diaphragm1, NO, 0,
0, NO
37, BEAM , UNILoad, GZ, NO , NO, aDir[1], ...
0.7, -442.898, 1, -442.898, 0, 0, 0, 0, Diaphragm2, NO,
0, 0, NO
38, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-442.898, 0.3, -442.898, 0, 0, 0, 0, Diaphragm2, NO, 0,
0, NO
57, BEAM , UNILoad, GZ, NO , NO, aDir[1], ...
0.7, -442.898, 1, -442.898, 0, 0, 0, 0, Diaphragm2, NO,
0, 0, NO
58, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-442.898, 0.3, -442.898, 0, 0, 0, 0, Diaphragm2, NO, 0,
0, NO
77, BEAM , UNILoad, GZ, NO , NO, aDir[1], ...
0.7, -442.898, 1, -442.898, 0, 0, 0, 0, Diaphragm2, NO,
0, 0, NO
78, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-442.898, 0.3, -442.898, 0, 0, 0, 0, Diaphragm2, NO, 0,
0, NO
418, BEAM , UNILoad, GZ, NO , NO, aDir[1], ...
0, -442.898, 0.3, -442.898, 0, 0, 0, 0, Diaphragm2, NO,
0, 0, NO
437, BEAM , UNILoad, GZ, NO , NO, aDir[1], ...
0.2, -442.898, 1, -442.898, 0, 0, 0, 0, Diaphragm3, NO,
0, 0, NO
: End of data for load case [SelfWeight]
-----
*USE-STLD, Prestress
*TDN-PRESTRESS : Tendon Prestress Loads
: TDN-NAME, FORCE/STRESS, JACKING, BEGIN, END,
IGROUTING, GROUP
BOT1-1, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress2
BOT1-10, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress20
BOT1-11, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress22
BOT1-12, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress24
BOT1-13, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress26
BOT1-14, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress28
BOT1-15, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress30
BOT1-16, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress32
BOT1-17, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress34
BOT1-18, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress36
BOT1-19, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress38
BOT1-2, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress4
BOT1-20, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress40
BOT1-21, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress42
BOT1-22, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress44
BOT1-3, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress6
BOT1-4, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress8
BOT1-5, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress10
BOT1-6, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress12
BOT1-7, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress14
BOT1-8, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress16
BOT1-9, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress18
BOT10-1, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress1
BOT10-10, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress19
BOT10-11, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress21
BOT10-12, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress23
BOT10-13, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress25
BOT10-14, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress27
BOT10-15, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress29
BOT10-16, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress31
BOT10-17, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress33
BOT10-18, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress35
BOT10-19, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress37
BOT10-2, STRESS, BEGIN, 0, 1412.16, 1, TB-Prestress3
BOT10-20, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress39
BOT10-21, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress41
BOT10-22, STRESS, BEGIN, 0, 1412.16, 1,
TB-Prestress43
BOT10-23, STRESS, BEGIN, 0, 1412.16, 1,
WEB5-36, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-37, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-38, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-39, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-4, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-5, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-6, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-7, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-8, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB5-9, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-1, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-10, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-11, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-12, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-13, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-14, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-15, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-16, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-17, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-18, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-19, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-2, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-20, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-21, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-22, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-23, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-24, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-25, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-26, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-27, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-28, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-29, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-3, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-30, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-31, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-32, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-33, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-34, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-35, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-36, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-37, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-38, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-39, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-4, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-5, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-6, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-7, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-8, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
WEB6-9, STRESS, BEGIN, 0, 1412.16, 1, Web-Prestress
: End of data for load case [Prestress]
-----
*USE-STLD, 2nd
*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
18, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
19, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
20, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
21, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
22, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
23, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
24, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
25, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
26, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
27, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
28, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
29, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
30, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
31, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
32, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
33, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO
34, BEAM , UNILoad, GZ, NO , NO, aDir[1], ... 0,
-40.8839, 1, -40.8839, 0, 0, 0, 2nd, NO, 0, NO

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*USE=STD, TG+
*THERGRAD      : Temperature Gradient
: ELEM_LIST, IETYP, TZ, BUSEHZ, HZ, TY, bUSEHY, HY,
GROUP
: ELEM_LIST, IETYP, TZ, bUSEHZ, HZ, GROUP
18, 1, 5, YES, 0, 0, YES, 0,
19, 1, 5, YES, 0, 0, YES, 0,
20, 1, 5, YES, 0, 0, YES, 0,
21, 1, 5, YES, 0, 0, YES, 0,
22, 1, 5, YES, 0, 0, YES, 0,
23, 1, 5, YES, 0, 0, YES, 0,
24, 1, 5, YES, 0, 0, YES, 0,
25, 1, 5, YES, 0, 0, YES, 0,
26, 1, 5, YES, 0, 0, YES, 0,
27, 1, 5, YES, 0, 0, YES, 0,
28, 1, 5, YES, 0, 0, YES, 0,
29, 1, 5, YES, 0, 0, YES, 0,
30, 1, 5, YES, 0, 0, YES, 0,
31, 1, 5, YES, 0, 0, YES, 0,
32, 1, 5, YES, 0, 0, YES, 0,
33, 1, 5, YES, 0, 0, YES, 0,
34, 1, 5, YES, 0, 0, YES, 0,
35, 1, 5, YES, 0, 0, YES, 0,
36, 1, 5, YES, 0, 0, YES, 0,
37, 1, 5, YES, 0, 0, YES, 0,
38, 1, 5, YES, 0, 0, YES, 0,
39, 1, 5, YES, 0, 0, YES, 0,
40, 1, 5, YES, 0, 0, YES, 0,
41, 1, 5, YES, 0, 0, YES, 0,
42, 1, 5, YES, 0, 0, YES, 0,
43, 1, 5, YES, 0, 0, YES, 0,
44, 1, 5, YES, 0, 0, YES, 0,
45, 1, 5, YES, 0, 0, YES, 0,
46, 1, 5, YES, 0, 0, YES, 0,
47, 1, 5, YES, 0, 0, YES, 0,
48, 1, 5, YES, 0, 0, YES, 0,
49, 1, 5, YES, 0, 0, YES, 0,
50, 1, 5, YES, 0, 0, YES, 0,
51, 1, 5, YES, 0, 0, YES, 0,
52, 1, 5, YES, 0, 0, YES, 0,
53, 1, 5, YES, 0, 0, YES, 0,
54, 1, 5, YES, 0, 0, YES, 0,
55, 1, 5, YES, 0, 0, YES, 0,
56, 1, 5, YES, 0, 0, YES, 0,
57, 1, 5, YES, 0, 0, YES, 0,
58, 1, 5, YES, 0, 0, YES, 0,
59, 1, 5, YES, 0, 0, YES, 0,

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*USE-STLD, TG-
*THERGRAD : Temperature Gradient
: ELEM_LIST, IETYP, TZ, bUSEHZ, HZ, TY, bUSEHY, HY,
GROUP
: ELEM_LIST, IETYP, TZ, bUSEHZ, HZ, GROUP
18, 1, -5, YES, 0, 0, YES, 0,
19, 1, -5, YES, 0, 0, YES, 0,
20, 1, -5, YES, 0, 0, YES, 0,
21, 1, -5, YES, 0, 0, YES, 0,
22, 1, -5, YES, 0, 0, YES, 0,
23, 1, -5, YES, 0, 0, YES, 0,
24, 1, -5, YES, 0, 0, YES, 0,
25, 1, -5, YES, 0, 0, YES, 0,
26, 1, -5, YES, 0, 0, YES, 0,
27, 1, -5, YES, 0, 0, YES, 0,
28, 1, -5, YES, 0, 0, YES, 0,
29, 1, -5, YES, 0, 0, YES, 0,
30, 1, -5, YES, 0, 0, YES, 0,
31, 1, -5, YES, 0, 0, YES, 0,
32, 1, -5, YES, 0, 0, YES, 0,
33, 1, -5, YES, 0, 0, YES, 0,
34, 1, -5, YES, 0, 0, YES, 0,
35, 1, -5, YES, 0, 0, YES, 0,
36, 1, -5, YES, 0, 0, YES, 0,
37, 1, -5, YES, 0, 0, YES, 0,
38, 1, -5, YES, 0, 0, YES, 0,
39, 1, -5, YES, 0, 0, YES, 0,
40, 1, -5, YES, 0, 0, YES, 0,
41, 1, -5, YES, 0, 0, YES, 0,
42, 1, -5, YES, 0, 0, YES, 0,
43, 1, -5, YES, 0, 0, YES, 0,
44, 1, -5, YES, 0, 0, YES, 0,
```

```
*USE-STLD, Temp+
*ELTEMPER      ; Element Temperatures
; ELEM_LIST,   TEMPER, GROUP
18, 15.
19, 15.
20, 15.
21, 15.
22, 15.
23, 15.
24, 15.
25, 15.
26, 15.
27, 15.
28, 15.
29, 15.
30, 15.
31, 15.
32, 15.
33, 15.
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34, 15,
35, 15,
36, 15,
37, 15,
38, 15,
39, 15,
40, 15,
41, 15,
42, 15,
43, 15,
44, 15,
45, 15,
46, 15,
47, 15,
48, 15,
49, 15,
50, 15,
51, 15,
412, 15,
413, 15,
414, 15,
415, 15,
416, 15,
417, 15,
418, 15,
419, 15,
420, 15,
421, 15,
422, 15,
423, 15,
424, 15,
425, 15,
426, 15,
427, 15,
428, 15,
429, 15,
430, 15,
431, 15,
432, 15,
433, 15,
434, 15,
435, 15,
436, 15,
437, 15,
; ----- End of data for load case [Temp+]

*USE-STLD, Temp-
*ELTEMPER : Element Temperatures
; ELEM_LIST, TEMPER, GROUP
18, -15,
19, -15,
20, -15,
21, -15,
22, -15,
23, -15,
24, -15,
25, -15,
26, -15,
27, -15,
28, -15,
29, -15,
30, -15,
31, -15,
32, -15,
33, -15,
34, -15,
35, -15,
36, -15,
37, -15,
38, -15,
39, -15,
415, -15,

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416, -15,
417, -15,
418, -15,
419, -15,
420, -15,
421, -15,
422, -15,
423, -15,
424, -15,
425, -15,
426, -15,
427, -15,
428, -15,
429, -15,
430, -15,
431, -15,
432, -15,
433, -15,
434, -15,
435, -15,
436, -15,
437, -15,
: End of data for load case [Temp-]
```

```
*USE=STLD, W+
*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
18, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
18, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
19, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
19, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
20, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
20, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
21, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
21, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
22, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
22, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
23, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
23, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
24, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
24, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
25, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
25, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
26, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
26, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
27, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
```

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21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
27, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
28, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
28, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
29, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
419, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
420, BEAM , UNILOAD, GY, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
420, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
421, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
434, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
434, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
435, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
435, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
436, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
437, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
21.3785, 1, 21.3785, 0, 0, 0, 0, NO, 0, 0, NO
437, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, -20760.7, 1, -20760.7, 0, 0, 0, 0, NO, 0, 0, NO
: End of data for load case [W+]
```

```
*USE=STLD, W-
*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
18, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
18, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
19, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
19, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
20, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
20, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
21, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
21, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
22, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
22, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
23, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
23, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
24, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
24, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
```

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431, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
432, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
432, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
433, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
433, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
434, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
434, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
435, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
435, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
436, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
436, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
437, BEAM , UNIMOMENT, GX, NO , NO, aDir[1], . .
, 0, 20760.7, 1, 20760.7, 0, 0, 0, 0, NO, 0, 0, NO
437, BEAM , UNILOAD, GY, NO , NO, aDir[1], . . , 0,
-21.3785, 1, -21.3785, 0, 0, 0, 0, NO, 0, 0, NO
: End of data for load case [W-]
```

```
*STAGE : Define Construction Stage
: NAME=NAME, DURATION, bSAVESTAGE, bSAVESTEP ;
line 1 : STEP=DAY1, DAY2, ... : line 2
: AELEM=GROUP1, AGE1, GROUP2, AGE2, ... : line
3
: DELEM=GROUP1, REDIST1, GROUP2, REDIST2, ... : line
4
: ABNDR=BGROUP1, POS1, BGROUP2, POS2, ... : line
5
: DBNDR=BGROUP1, BGROUP2, ... : line 6
: ALOAD=LGROUP1, DAY1, LGROUP2, DAY2, ... : line
7
: DLOAD=LGROUP1, DAY1, LGROUP2, DAY2, ... : line
8
NAME=CS1, 0, YES, NO
AELEM=Nose, 0, Segment1, 7
ABNDR=CS1-Dfm0, DEFORMED, CS1-Org0, ORIGINAL
ALOAD=SelfWeight, FIRST, TB-Prestress1, FIRST,
Diaphragm1, FIRST
NAME=CS1-1, 0, YES, NO
ABNDR=CS1-Dfm1, DEFORMED, CS1-Org1, ORIGINAL
DBNDR=CS1-Dfm0, CS1-Org0
NAME=CS1-2, 0, YES, NO
ABNDR=CS1-Dfm2, DEFORMED, CS1-Org2, ORIGINAL
DBNDR=CS1-Dfm1, CS1-Org1
NAME=CS1-3, 0, YES, NO
ABNDR=CS1-Dfm3, DEFORMED, CS1-Org3, ORIGINAL
DBNDR=CS1-Dfm2, CS1-Org2
NAME=CS1-4, 0, YES, NO
ABNDR=CS1-Dfm4, DEFORMED, CS1-Org4, ORIGINAL
DBNDR=CS1-Dfm3, CS1-Org3
NAME=CS1-5, 30, YES, NO
ABNDR=CS1-Dfm5, DEFORMED, CS1-Org5, ORIGINAL
DBNDR=CS1-Dfm4, CS1-Org4
NAME=CS2, 0, YES, NO
AELEM=Segment2, 7
ABNDR=CS2-Dfm0, DEFORMED, CS2-Org0, ORIGINAL
DBNDR=CS1-Dfm5, CS1-Org5
ALOAD=TB-Prestress2, FIRST
NAME=CS2-1, 0, YES, NO
ABNDR=CS2-Dfm1, DEFORMED, CS2-Org1, ORIGINAL
DBNDR=CS2-Dfm0, CS2-Org0
NAME=CS2-2, 0, YES, NO
```

```
ABNDR=CS2-Dfm2, DEFORMED, CS2-Org2, ORIGINAL
DBNDR=CS2-Dfm1, CS2-Org1
NAME=CS2-3, 0, YES, NO
ABNDR=CS2-Dfm3, DEFORMED, CS2-Org3, ORIGINAL
DBNDR=CS2-Dfm2, CS2-Org2
NAME=CS2-4P, 0, YES, NO
ABNDR=CS2-Dfm4, DEFORMED, CS2-Org4, ORIGINAL
DBNDR=CS2-Dfm3, CS2-Org3
NAME=CS2-4, 0, YES, NO
ABNDR=CS2-Org4P, ORIGINAL
NAME=CS2-5, 12, YES, NO
ABNDR=CS2-Dfm5, DEFORMED, CS2-Org5, ORIGINAL
DBNDR=CS2-Dfm4, CS2-Org4
NAME=CS3, 0, YES, NO
AELEM=Segment3, 7
ABNDR=CS3-Dfm0, DEFORMED, CS3-Org0, ORIGINAL
DBNDR=CS2-Dfm5, CS2-Org5
ALOAD=TB-Prestress3, FIRST
NAME=CS3-1, 0, YES, NO
ABNDR=CS3-Dfm1, DEFORMED, CS3-Org1, ORIGINAL
DBNDR=CS3-Dfm0, CS3-Org0
NAME=CS3-2, 0, YES, NO
ABNDR=CS3-Dfm2, DEFORMED, CS3-Org2, ORIGINAL
DBNDR=CS3-Dfm1, CS3-Org1
NAME=CS3-3, 0, YES, NO
ABNDR=CS3-Dfm3, DEFORMED, CS3-Org3, ORIGINAL
DBNDR=CS3-Dfm2, CS3-Org2
NAME=CS3-4, 0, YES, NO
ABNDR=CS3-Dfm4, DEFORMED, CS3-Org4, ORIGINAL
DBNDR=CS3-Dfm3, CS3-Org3
NAME=CS3-5, 12, YES, NO
ABNDR=CS3-Dfm5, DEFORMED, CS3-Org5, ORIGINAL
DBNDR=CS3-Dfm4, CS3-Org4
NAME=CS4, 0, YES, NO
AELEM=Segment4, 7
ABNDR=CS4-Dfm0, DEFORMED, CS4-Org0, ORIGINAL
DBNDR=CS3-Dfm5, CS3-Org5
ALOAD=TB-Prestress4, FIRST
NAME=CS4-1, 0, YES, NO
ABNDR=CS4-Dfm1, DEFORMED, CS4-Org1, ORIGINAL
DBNDR=CS4-Dfm0, CS4-Org0
NAME=CS43-5, 12, YES, NO
ABNDR=CS43-Dfm5, DEFORMED, CS43-Org5, ORIGINAL
DBNDR=CS43-Dfm4, CS43-Org4
NAME=CS44, 0, YES, NO
AELEM=Segment44, 7
ABNDR=CS44-Dfm0, DEFORMED, CS44-Org0, ORIGINAL
DBNDR=CS43-Dfm5, CS43-Org5
ALOAD=TB-Prestress44, FIRST, Diaphragm3, FIRST
NAME=CS44-1, 0, YES, NO
ABNDR=CS44-Dfm1, DEFORMED, CS44-Org1, ORIGINAL
DBNDR=CS44-Dfm0, CS44-Org0
NAME=CS44-2, 0, YES, NO
ABNDR=CS44-Dfm2, DEFORMED, CS44-Org2, ORIGINAL
DBNDR=CS44-Dfm1, CS44-Org1
NAME=CS44-3, 0, YES, NO
ABNDR=CS44-Dfm3, DEFORMED, CS44-Org3, ORIGINAL
DBNDR=CS44-Dfm2, CS44-Org2
NAME=CS44-4, 0, YES, NO
ABNDR=CS44-Dfm4, DEFORMED, CS44-Org4, ORIGINAL
DBNDR=CS44-Dfm3, CS44-Org3
NAME=CS44-5, 12, YES, NO
ABNDR=CS44-Dfm5, DEFORMED, CS44-Org5, ORIGINAL
DBNDR=CS44-Dfm4, CS44-Org4
NAME=CS45, 120, YES, NO
DELEM=Nose, 100
ABNDR=CS45-Org0, ORIGINAL
DBNDR=CS44-Dfm5, CS44-Org5
ALOAD=Web-Prestress, FIRST, Diaphragm2, FIRST
NAME=CS46, 10000, YES, YES
ABNDR=CS46-Org0, ORIGINAL
DBNDR=CS45-Org0
ALOAD=2nd, FIRST
```

[illegible]

```

Data
; bLAST-FINAL, FINAL-STAGE, CPFC, bEXT_REPL,
bCALC-CFF, bCALC-CSP, bAPPLY-IMF, W : line 1
; bCONV, bTRUSS, bBEAM, bITD, GROUP, LTYPECC,
bSAVE-OCS, bLFFC, LFFGR, W : line 1
; bCHANGE-CABLE
; line 1
; bINC-NLA, INLA-TYPE, bEMF, iLSTEP, iMAXITER, bENEG,
EV, bDISP, DV, bFORC, FV : line 2
; bINC-PDL, iITER, TOL
; line 3
; bINC-TDE, bCONS, TYPE, iITER, TOL, bTTLE_CS, bRCE,
bVAR, bTTLE_ES, bAPPLY-ELA : line 4
; bOUCC, bITS, iITS, bATS, IT10, IT100, IT1K, IT5K, IT10K
; line 5
; bSD, ISDOPT, SDCONST, iBSC, bSDLE, GLC1, GLC2, ...
; line 6
; LCNAME1, LCNAME2, LCNAME3, ...
; from line 7
YES, , INTERNAL, NO, NO, NO, NO, NO, YES, YES, NO,
, D, NO, NO, , NO
NO
YES, YES, BOTH, 5, 0.01, YES, NO, YES, YES, 0, NO
NO, YES, 1, YES, 2, 5, 7, 10, 20
NO, , 1, NO
2nd

*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, SM400 , 1, KS-Civil(S),
,SM400
2, CONC , C400 , 1, KS-Civil(RC),
,C400 , NO, 1, , , , 0, 0, NO, 0, 0

*REAC-POS : Reaction Position
; NAME=NAME, DESC : line 1
; STAGE1, NODE1, STAG2, NODE2, ... : from line
2
NAME=Support1,
CS43-4, 1, CS43-5, 3, CS44, 3, CS44-1, 4,
CS44-2, 5, CS44-3, 6, CS44-4, 7
CS44-5, 8, CS45, 8, CS46, 8
NAME=Support2,
CS41-4, 1, CS41-5, 3, CS42, 3, CS42-1, 5,
CS42-2, 7, CS42-3, 9, CS42-4, 11
CS42-5, 13, CS43, 13, CS43-1, 15, CS43-2, 17,
CS43-3, 19, CS43-4, 21
CS43-4P, 21, CS43-5, 23, CS44, 23, CS44-1, 24,
CS44-2, 25, CS44-3, 26
CS44-4, 27, CS44-5, 28, CS45, 28, CS46, 28
NAME=Support3,
CS24, 247, CS24-1, 248, CS24-2, 249, CS24-3,
CS24-4, 251, CS24-5, 252
CS24-6, 253, CS24-7, 254, CS25, 258, CS25-1,
259, CS25-2, 260, CS25-3, 261
CS25-4, 262, CS25-5, 263, CS25-6, 264, CS25-7,
265, CS26, 269, CS26-1, 270
CS26-2, 271, CS26-3, 272, CS26-4, 273, CS26-5,
274, CS26-6, 275
CS26-6P, 275, CS26-7, 276, CS27, 280, CS27-1,
281, CS27-2, 282, CS27-3, 283
CS27-4, 284, CS27-5, 285, CS27-6, 286, CS27-7,
287, CS28, 291, CS28-1, 292
CS28-2, 293, CS28-3, 294, CS28-4, 295,
CS28-4P, 295, CS28-5, 296
CS28-6, 297, CS28-7, 298, CS29, 302, CS29-1,
304, CS29-2, 306, CS29-3, 308
CS30, 312, CS30-1, 314, CS30-2, 316, CS31,
320, CS31-1, 322, CS31-2, 324
CS32, 328, CS32-1, 330, CS32-2, 332, CS33,
336, CS33-1, 338, CS33-2, 340
CS34, 344, CS34-1, 346, CS34-2, 348, CS35,
352, CS35-1, 354, CS35-2, 356
CS36, 360, CS36-1, 362, CS36-2, 364, CS37,
368, CS37-1, 370, CS37-2, 372
CS38, 376, CS38-1, 377, CS38-2, 378, CS38-3,
379, CS38-4, 380, CS38-5, 381
CS39, 385, CS39-1, 386, CS39-2, 387, CS39-3,
388, CS39-4, 389, CS39-5, 390
CS39-6, 391, CS39-7, 392, CS40, 396, CS40-1,
397, CS40-2, 398, CS40-3, 399
CS40-4, 400, CS40-5, 401, CS40-6, 402, CS40-7,
403, CS41, 407, CS41-1, 409
CS41-2, 411, CS41-3, 413, CS42, 417, CS42-1,
419, CS42-2, 421, CS42-3, 423
CS43, 427, CS43-1, 429, CS43-2, 431, CS43-3,
433, CS44, 437, CS44-1, 438
NAME=Support31,
CS2, 476, CS2-1, 478, CS3, 486, CS3-1, 488,
CS4, 496, CS4-1, 498, CS5, 506
CS5-1, 508, CS6, 516, CS6-1, 518, CS7, 526,
CS7-1, 528, CS8, 536, CS8-1, 538
CS9, 546, CS9-1, 548, CS10, 556, CS10-1, 558,
CS11, 566, CS11-1, 568
CS12, 576, CS12-1, 578, CS13, 586, CS13-1,
588, CS14, 596, CS14-1, 598
CS14-1P, 598, CS15, 606, CS15-1, 608, CS16,
616, CS16-1, 618, CS17, 626
CS17-1, 628, CS18, 636, CS18-1, 638, CS19,
646, CS19-1, 648, CS20, 656
CS20-1, 658, CS21, 666, CS21-1, 668, CS22,
676, CS22-1, 678, CS23, 686
CS23-1, 688, CS24, 696, CS24-1, 697, CS24-2,
698, CS24-3, 699, CS25, 707
CS25-1, 708, CS25-2, 709, CS25-3, 710, CS26,
718, CS26-1, 719, CS26-2, 720
CS26-3, 721, CS27, 729, CS27-1, 730, CS27-2,
731, CS27-3, 732, CS28, 740
CS28-1, 741, CS28-2, 742, CS28-3, 743, CS29,
751, CS29-1, 753, CS30, 761
CS31, 769, CS32, 777, CS33, 785, CS34, 793,
CS35, 801, CS36, 809, CS37, 817
CS38, 825, CS38-1, 826, CS39, 834, CS39-1,
835, CS39-2, 836, CS39-3, 837
CS40, 845, CS40-1, 846, CS40-2, 847, CS40-3,
848, CS41, 856, CS41-1, 858
CS42, 866, CS42-1, 868, CS43, 876, CS43-1, 878
NAME=Support32,
CS2, 31, CS2-1, 33, CS3, 41, CS3-1, 43, CS4,
51, CS4-1, 53, CS5, 61
CS5-1, 63, CS6, 71, CS6-1, 73, CS7, 81, CS7-1,
83, CS8, 91, CS8-1, 93
CS9, 101, CS9-1, 103, CS10, 111, CS10-1, 113,
CS11, 121, CS11-1, 123
CS12, 131, CS12-1, 133, CS13, 141, CS13-1,
143, CS14, 151, CS14-1, 153
CS14-1P, 153, CS15, 161, CS15-1, 163, CS16,
171, CS16-1, 173, CS17, 181
CS17-1, 183, CS18, 191, CS18-1, 193, CS19,
201, CS19-1, 203, CS20, 211
CS20-1, 213, CS21, 221, CS21-1, 223, CS22,
231, CS22-1, 233, CS23, 241
CS23-1, 243, CS24, 251, CS24-1, 252, CS24-2,
253, CS24-3, 254, CS25, 262
CS25-1, 263, CS25-2, 264, CS25-3, 265, CS26,
273, CS26-1, 274, CS26-2, 275
CS26-3, 276, CS27, 284, CS27-1, 285, CS27-2,
286, CS27-3, 287, CS28, 295
CS28-1, 296, CS28-2, 297, CS28-3, 298, CS29,
306, CS29-1, 308, CS30, 316
CS31, 324, CS32, 332, CS33, 340, CS34, 348,
CS35, 356, CS36, 364, CS37, 372
CS38, 380, CS38-1, 381, CS39, 389, CS39-1,
390, CS39-2, 391, CS39-3, 392
CS40, 400, CS40-1, 401, CS40-2, 402, CS40-3,
403, CS41, 411, CS41-1, 413
CS42, 421, CS42-1, 423, CS43, 431, CS43-1, 433
NAME=Support33,
CS2, 478, CS3, 488, CS4, 498, CS5, 508, CS6,
518, CS7, 528, CS8, 538
CS9, 548, CS10, 558, CS10, 558, CS11, 568, CS12, 578,
CS13, 588, CS14, 598, CS15, 608
CS16, 618, CS17, 628, CS18, 638, CS19, 648,
CS20, 658, CS21, 668, CS22, 678
CS23, 688, CS24, 698, CS24-1, 699, CS25, 709,
CS25-1, 710, CS26, 720
CS26-1, 721, CS27, 731, CS27-1, 732, CS28,
742, CS28-1, 743, CS29, 753
CS39, 836, CS39-1, 837, CS40, 847, CS40-1,
848, CS41, 858, CS42, 868
CS43, 878
NAME=Support34,
CS2, 33, CS3, 43, CS4, 53, CS5, 63, CS6, 73,
CS7, 83, CS8, 93, CS9, 103
CS10, 113, CS11, 123, CS12, 133, CS13, 143,
CS14, 153, CS15, 163, CS16, 173
CS17, 183, CS18, 193, CS19, 203, CS20, 213,
CS21, 223, CS22, 233, CS23, 243
CS24, 253, CS24-1, 254, CS25, 264, CS25-1,
265, CS26, 275, CS26-1, 276
CS27, 286, CS27-1, 287, CS28, 297, CS28-1,
298, CS29, 308, CS39, 391
CS39-1, 392, CS40, 402, CS40-1, 403, CS41,
413, CS42, 423, CS43, 433
NAME=Support35,
CS24, 699, CS25, 710, CS26, 721, CS27, 732,
CS28, 743, CS39, 837, CS40, 848
NAME=Support36,
CS24, 254, CS25, 265, CS26, 276, CS27, 287,
CS28, 298, CS39, 392, CS40, 403
*ENDDATA

```

YES, YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,

[illegible]

```

; 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
; T+, TPG,
; L2, L,
; L3, T,
; Temp-, T,
; T-, TPG,

; 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 iCELL 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(iCELL, 2CELL), 13(3CELL), 9(PSCM),
8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL), 2(ncEL2)
; [SIZE-A] : 6(iCELL, 2CELL), 10(3CELL), 10(PSCM),
6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL), 11(ncEL2)
; [SIZE-B] : 6(iCELL, 2CELL), 12(3CELL), 6(PSCM),
6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL), 18(ncEL2)
; [SIZE-C] : 10(iCELL, 2CELL), 13(3CELL), 9(PSCM),
10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL), 11(ncEL2)
; [SIZE-D] : 8(iCELL, 2CELL), 13(3CELL), 6(PSCM),
7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL), 18(ncEL2)
; [STIFF] : AREA, ASy, ASz, kxx, kyy, kzz
; [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

```

```

*STLDCASE : Static Load Cases
; LCNAME, LCTYPE, DESC

```

```

자중 D
아스콘 포장, D,
방음벽, D,
방음벽, D,
L1, L,
T+, T,
TPG,
L2, L,
L3, T,
Temp-, T,
T-, TPG,

```

```

*CONSTRAINT : Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
16, 111101,
11to1 13to15, 010101,
12, 011101,

```

```

*USE-STLD, 자중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
; End of data for load case [자중]

```

```

*USE-STLD, 아스콘 포장
*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, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . ,
0.310295, -1.84, 0.999839, -1.84, 0, 0, 0, 0, NO, 0, 0,
NO
2, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . ,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
3, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . ,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
4, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . ,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO

```

```

5, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . , 0,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
6, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . , 0,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
7, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . , 0,
-1.84, 1, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
8, BEAM, UNILOAD, GZ, NO, NO, aDir[1], . . . , 0,
-1.84, 0.689544, -1.84, 0, 0, 0, 0, NO, 0, 0, NO
; End of data for load case [아스콘 포장]

```

```

*USE-STLD, 방호벽
*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
8, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.808835, -8.366, 0, 0, 0, 0, 0, 0, 방음벽+방호벽, NO, 0,
0, NO
; End of data for load case [방호벽]

```

```

*USE-STLD, 방음벽
*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, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.165491, -11.79, 0, 0, 0, 0, 0, 0, 방음벽+방호벽, NO, 0,
0, NO
; End of data for load case [방음벽]

```

```

*USE-STLD, L1
*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, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.517158, -59.428, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
2, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.729317, -59.428, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
3, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.352882, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
4, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.316887, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
; End of data for load case [L1]

```

```

*USE-STLD, Temp+
*ELTEMPER : Element Temperatures
; ELEM_LIST, TEMPER, GROUP
1, 15,
2, 15,
3, 15,

```

```

4, 15,
5, 15,
6, 15,
7, 15,
8, 15,
9, 15,
10, 15,
11, 15,
12, 15,
13, 15,
14, 15,
15, 15,
16, 15,
; End of data for load case [Temp+]

```

```

*USE-STLD, T+
*THERGRAD : Temperature Gradient
; ELEM_LIST, iTYP, TZ, bUSEHZ, HZ, TY, bUSEHY, HY,
GROUP
; ELEM_LIST, iTYP, TZ, bUSEHZ, HZ, GROUP
1, 1, 5, YES, 0, 0, YES, 0,
2, 1, 5, YES, 0, 0, YES, 0,
3, 1, 5, YES, 0, 0, YES, 0,
4, 1, 5, YES, 0, 0, YES, 0,
5, 1, 5, YES, 0, 0, YES, 0,
6, 1, 5, YES, 0, 0, YES, 0,
7, 1, 5, YES, 0, 0, YES, 0,
8, 1, 5, YES, 0, 0, YES, 0,
; End of data for load case [T+]

```

```

*USE-STLD, 풍하중
*CONLOAD : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
1, 6.192, 0, 0, 0, 7.988, 0,
9, 2.592, 0, 0, 0, 1.4, 0,
*BEAMLOAD : Element Beam Loads
; 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
9, BEAM, UNILOAD, GX, NO, NO, aDir[1], . . . , 0,
2.4, 1, 2.4, 0, 0, 0, 0, NO, 0, 0, NO
10, BEAM, UNILOAD, GX, NO, NO, aDir[1], . . . , 0,
2.4, 1, 2.4, 0, 0, 0, 0, NO, 0, 0, NO
; End of data for load case [풍하중]

```

```

*USE-STLD, L2
*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
3, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.422389, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
4, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.364238, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
5, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.549819, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
6, BEAM, CONLOAD, GZ, NO, NO, aDir[1], . . . ,
0.578945, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO

```

: End of data for load case [L2]

*USE-STLD, L3
*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, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.517158, -59.428, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
2, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.729317, -59.428, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
3, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.352882, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
4, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.316887, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
5, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.408281, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
6, BEAM CONLOAD, GZ, NO, NO, aDir[1], ...
0.509685, -57.512, 0, 0, 0, 0, 0, 0, 활하중, NO, 0, 0, NO
: End of data for load case [L3]

*USE-STLD, Temp-
*ELTEMPER : Element Temperatures
: ELEM_LIST, TEMPER, GROUP

1, -15,
2, -15,
3, -15,
4, -15,
5, -15,
6, -15,
7, -15,
8, -15,
9, -15,
10, -15,
11, -15,
12, -15,
13, -15,
14, -15,
15, -15,
16, -15,

: End of data for load case [Temp-]

*USE-STLD, T-
*THERGRAD : Temperature Gradient
: ELEM_LIST, iTYP, TZ, bUSEHZ, HZ, TY, bUSEHY, HY,
GROUP
: ELEM_LIST, iTYP, TZ, bUSEHZ, HZ, GROUP
1, 1, -5, YES, 0, 0, YES, 0,
2, 1, -5, YES, 0, 0, YES, 0,
3, 1, -5, YES, 0, 0, YES, 0,
4, 1, -5, YES, 0, 0, YES, 0,
5, 1, -5, YES, 0, 0, YES, 0,
6, 1, -5, YES, 0, 0, YES, 0,
7, 1, -5, YES, 0, 0, YES, 0,
8, 1, -5, YES, 0, 0, YES, 0,
: End of data for load case [T-]

*LOADCOMB : Combinations
: NAME=NAME, KIND, ACTIVE, bES, ITYPE, DESC,
ISERV-TYPE, nLCOMTYPE : line 1
: ANAL1, LCNAME1, FACT1, ...
: from line 2
NAME=D, GEN, ACTIVE, 0, 0, 0, 0

방을벽, 1
NAME=L, GEN, ACTIVE, 0, 1, 0, 0
ST, L1, 1, ST, L2, 1, ST, L3, 0.9
NAME=T1, GEN, ACTIVE, 0, 0, 0, 0
ST, Temp+, 1, ST, T+, 1
NAME=T2, GEN, ACTIVE, 0, 0, 0, 0
ST, Temp+, 1, ST, T-, 1
NAME=T3, GEN, ACTIVE, 0, 0, 0, 0
ST, Temp-, 1, ST, T+, 1
NAME=T4, GEN, ACTIVE, 0, 0, 0, 0
ST, Temp-, 1, ST, T-, 1
NAME=TEMP, GEN, ACTIVE, 0, 1, 0, 0
CB, T1, 1, CB, T2, 1, CB, T3, 1, CB, T4, 1
NAME=U1, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.3, CB, L, 2.15
NAME=U2, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.3, CB, L, 1.3, CB, TEMP, 1.3
NAME=U3, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.3, CB, L, 1.3, ST, 풍하중, 0.65
NAME=U4, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.3, ST, 풍하중, 1.3
NAME=U5, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.25, CB, L, 1.25, CB, TEMP, 1.25, ST, 풍
하중, 0.625
NAME=U6, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1.25, CB, TEMP, 1.25, ST, 풍하중, 1.25
NAME=Ser1, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1, CB, L, 1
NAME=Ser2, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1, CB, L, 1, CB, TEMP, 1
NAME=ser3, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1, CB, L, 1, ST, 풍하중, 0.5
NAME=Ser4, GEN, ACTIVE, 0, 0, 0, 0
CB, D, 1, CB, L, 1, CB, TEMP, 1, ST, 풍하중, 0.5
NAME=U, GEN, ACTIVE, 0, 1, 0, 0
CB, U1, 1, CB, U2, 1, CB, U3, 1, CB, U4, 1, CB,
U5, 1, CB, U6, 1
NAME=Ser, GEN, ACTIVE, 0, 1, 0, 0
CB, Ser1, 1, CB, Ser2, 1, CB, ser3, 1, CB, Ser4, 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, 255, 87, 255, 0, 192, 192, 192, 0
ST, 아스콘 포장, 0, 128, 128, 0, 128, 57, 192, 0, 128
ST, 방음벽, 93, 255, 87, 0, 192, 192, 0, 128, 128
ST, 방음벽, 85, 0, 192, 163, 255, 160, 0, 192, 128
ST, L1, 0, 192, 192, 163, 255, 160, 0, 192, 128
ST, L2, 192, 192, 0, 192, 128, 85, 0, 192
ST, L3, 255, 128, 0, 78, 0, 255, 128, 192, 0
CB, D, 0, 192, 192, 163, 255, 160, 0, 128, 192
CB, L, 255, 192, 87, 192, 192, 0, 160, 255, 255
ST, Temp-, 93, 255, 87, 255, 192, 87, 0, 157, 192
ST, T-, 0, 128, 57, 148, 87, 255, 85, 0, 192
CB, T1, 255, 0, 128, 128, 192, 0, 78, 0, 255
CB, T2, 148, 87, 255, 148, 87, 255, 192, 192, 0
CB, T3, 255, 192, 160, 128, 192, 0, 255, 192, 160
CB, T4, 255, 0, 192, 0, 192, 128, 146, 0, 255
CB, TEMP, 160, 255, 255, 85, 192, 0, 255, 255, 87
CB, U1, 146, 0, 255, 192, 0, 192, 255, 87, 87
CB, U2, 210, 210, 210, 85, 0, 192, 192, 72, 0
CB, U3, 85, 0, 192, 212, 160, 255, 0, 192, 192
CB, U4, 0, 192, 128, 78, 0, 255, 255, 255, 255
CB, U5, 0, 192, 192, 210, 210, 210, 255, 87, 128
CB, U6, 192, 0, 128, 255, 0, 128, 0, 128, 57
CB, Ser1, 192, 192, 192, 0, 128, 128, 255, 87, 87
CB, Ser2, 0, 192, 192, 0, 157, 192, 0, 192, 128
CB, ser3, 210, 210, 210, 85, 192, 0, 163, 255, 160
CB, Ser4, 192, 128, 0, 255, 87, 87, 85, 0, 192

CB, U, 192, 0, 192, 255, 87, 87, 255, 0, 192
CB, Ser, 255, 0, 128, 255, 255, 255, 128, 192, 0
*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(Non) & 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, CONC, C40 1, KS01-Civil(RC),
C40, NO, 1, 0, 0, 28000, NO, 0, 0
*DYNAGEN-TABLE : SmartGen Table
: NAME=NAME, nMENUID, nDSKIND, TBKIND, CAPTION,
ball, GRUENAME, nDATATYPE, nTBMODE
: [HEADER] nROWCOUNT, nALLCOLCOUNT,
nCURCOLCOUNT, nUNSELCOLCOUNT
: [HEADER] CURINDEX[0], CURINDEX[1], CURINDEX[2]
... CURINDEX[150]
: [HEADER] UNSELINDEX[0], UNSELINDEX[1],
UNSELINDEX[2] ... UNSELINDEX[150]
: [CELL] nROWCOUNT
: [SORT] nSORTCOUNT
: [SORT] nSORTFLDID[0], nSORTFLDID[1],
nSORTFLDID[2] ... nSORTFLDID[20]
: [SORT] nSORTASCEND[0], nSORTASCEND[1],
nSORTASCEND[2] ... nSORTASCEND[20]
: [SORT] nSORTTYPE[0], nSORTTYPE[1], nSORTTYPE[2]
... nSORTTYPE[20]
: [STYLE] nSTYLECOUNT, nSTYLEPREFCOUNT
: [STYLE] nSTYLECOL[0], nSTYLECOL[1], nSTYLECOL[2]
... nSTYLECOL[150]
: [STYLE] nSTYLETYPE[0], nSTYLETYPE[1],
nSTYLETYPE[2] ... nSTYLETYPE[150]
: [STYLE] nSTYLETITLE[0], nSTYLETITLE[1],
nSTYLETITLE[2] ... nSTYLETITLE[150]
: [STYLE] nPREFVTYPE[0], nPREFVTYPE[1],
nPREFVTYPE[2] ... nPREFVTYPE[150]
: [STYLE] nPREFFORMAT[0], nPREFFORMAT[1],

nPREFFORMAT[2] ... nPREFFORMAT[150]
: [STYLE] nPREFFPLACE[0], nPREFFPLACE[1],
nPREFFPLACE[2] ... nPREFFPLACE[150]
: [STYLE] nPREFWIDTH[0], nPREFWIDTH[1],
nPREFWIDTH[2] ... nPREFWIDTH[150]
: [ACTIVE] nKEYTYPE, nCHILOTYPE, bNODE[0], bNODE[1]
: [ACTIVE] nKEYSIZE, KEY[0], KEY[1], KEY[2] ...
K E Y [n]
: [ACTIVE] nLOADSIZE, LOAD[0], LOAD[1], LOAD[2] ...
L O A D [n]
: [ACTIVE] nLKINDSIZE, LKIND[0], LKIND[1], LKIND[2] ...
L K I N D [n]
: [ACTIVE] nMINMAXSIZE, MINMAX[0], MINMAX[1],
MINMAX[2] ... MINMAX[n]
: [ACTIVE] nSTEPsize, STEP[0], STEP[1], STEP[2] ...
S T E P [n]
: [ACTIVE] nLOADSTEPsize, LCIX[0], STEP[0], LCIX[1],
STEP[1] ... LCIX[n], STEP[n]
: [ACTIVE] nPARTSIZE, PART[0], PART[1], PART[2] ...
P A R T [n]
: [ACTIVE] nCURETCsize, CURETC[0], CURETC[1],
CURETC[2] ... CURETC[n]
: [ACTIVE] nCURDATASIZE, CURDATA[0], CURDATA[1],
CURDATA[2] ... CURDATA[n]
: [DESIGN] nRCSTYPE, nSIZE, nSORT, nRVIEW, nPRIMARY,
nRESRADIO, nRCDESIGN, nSTLDESIGN, nREBAR,
nRVIEWBE [DESIGN] nRCDESIGNSIZE
: [DESIGN] MEMBK
: [DESIGN] dFLEXDIST[0], dFLEXDIST[1] ...
dFLEXDIST[5], FLEXBAR1[0], FLEXBAR1[1] ...
FLEXBAR1[5]...
: FLEXBAR2[0], FLEXBAR2[1] ... FLEXBAR2[5],
FLEXNUM[0], FLEXNUM[1] ... FLEXNUM[5]...
: FLEXCTC[0], FLEXCTC[1] ... FLEXCTC[5]
: [DESIGN] SHEARBAR[0], SHEARBAR[1] ...
SHEARBAR[5], dSHEARL[0], dSHEARL[1] ...
dSHEARL[5]...
: dSHEARSPACING[0], dSHEARSPACING[1] ...
d S H E A R S P A C I N G [5] . . .
: [PUSHOVER] POLCK, nSTEPFORDEMAND,
nSTEPFORDEMANDBYUSER, nUSERSTEP,
C O N F I D E N C E F A C T O R ,
:(29+3*n)th Line
: bCOMPONENT[0], bCOMPONENT[1],
bCOMPONENT[2], bCOMPONENT[3], bGETSTEP, nDL,
nSD, nNC, nMODE
: [STORY] bRMF, dRMF, dDAF, dIMF, dSUF, dALR,
dALR_CH, nFIXUSER, aBETA[0] ... aBETA[150]
: (29+3*n+1)th Line
: COMBINATION[0] ... COMBINATION[150],

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dANGLE, nDRIFT, nSTIFF, nMETHOD, NODEK[0], ; SECT = NO, bSAMEJ
NODEK[1] ; line 1
; bMETHOD[0] ... bMETHOD[7], NODEKEY[0] ; STFNISIZE, STFNJSIZE
... NODEKEY[2], bSAMESELNODE[0], bSAMESELNODE[1] ; line 2
; ..... ;
; aNODEKEY[0][0] ... aNODEKEY[2][150],
bSAMEAVERAGE[0], bSAMEAVERAGE[1], bUPSTORYNODEK ; LOOP UTIL (STFNISIZE, STFNJSIZE)
;
*SECTION MANAGER-GROUP & PART ; Section TYPE, Z, STANDREF, POSLINE, STANDREFL, NUM,
Manager - Group & Part ; line n
; SECT = NO, bSAMEJ ; STIFFTYPE, dSIZE(0 ~ 20)
; GRPDISIZE, GRPDJSIZE, PARTISIZE, PARTJSIZE ; line n
; line 2 ; line n
; ..... ;
; LOOP UTIL (GRPDISIZE, GRPDJSIZE) SECT=1, YES
; 0, 0
; GROUPID, GROUPNAME, GROUPTYPE SECT=2, YES
; line n 0, 0
; ..... SECT=3, YES
; 0, 0
; LOOP UTIL (PARTISIZE, PARTJSIZE) SECT=6, YES
; 0, 0
; PARTTYPE, GROUPID, PARTNAME, PARTSHAPE, SECT=7, YES
bSTIFFENER ; line n 0, 0
; LINEINDEX[i]..... SECT=8, YES
; line n 0, 0
; ..... SECT=11, YES
; 0, 0
SECT=1, YES SECT=12, YES
0, 0, 0 0, 0
SECT=2, YES SECT=13, YES
0, 0, 0 0, 0
SECT=3, YES SECT=15, YES
0, 0, 0 0, 0
SECT=6, YES SECT=16, YES
0, 0, 0 0, 0
SECT=7, YES SECT=17, YES
0, 0, 0 0, 0
SECT=8, YES SECT=18, YES
0, 0, 0 0, 0
SECT=11, YES SECT=21, YES
0, 0, 0 0, 0
SECT=12, YES SECT=26, YES
0, 0, 0 0, 0
SECT=13, YES SECT=27, YES
0, 0, 0 0, 0
SECT=15, YES SECT=32, YES
0, 0, 0 0, 0
SECT=16, YES SECT=37, YES
0, 0, 0 0, 0
SECT=17, YES SECT=39, YES
0, 0, 0 0, 0
SECT=18, YES SECT=40, YES
0, 0, 0 0, 0
SECT=21, YES
0, 0, 0
SECT=26, YES
0, 0, 0
SECT=27, YES
0, 0, 0
SECT=32, YES
0, 0, 0
SECT=37, YES
0, 0, 0
SECT=39, YES
0, 0, 0
SECT=40, YES
0, 0, 0

*SECTION MANAGER-STIFFENER ; Section Manager -
Stiffener

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