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; MIDAS/Civil Text(MCT) File.
; Date : 2015/4/21
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*VERSION
8.3.1
*UNIT : Unit System
; FORCE, LENGTH, HEAT, TEMPER
KN , M, KCAL, 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
KSCE-LSD12(RC), SD300,
KSCE-LSD12(RC), SD300
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; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE,	0	0
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Truss	0	0
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iSUB, iWID ; Planar Element	0	0
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92, BEAM , 1, 2, 1039, 82, 0	126, BEAM , 1, 4, 78, 69, 0	160, BEAM , 1, 3, 134, 135, 0
93, BEAM , 1, 2, 83, 1023, 0	127, BEAM , 1, 4, 69, 60, 0	161, BEAM , 1, 2, 135, 1059, 0
94, BEAM , 1, 2, 1023, 85, 0	128, BEAM , 1, 4, 60, 87, 0	162, BEAM , 1, 2, 1059, 137, 0
95, BEAM , 1, 1, 86, 87, 0	129, BEAM , 1, 4, 87, 96, 0	163, BEAM , 1, 2, 138, 1043, 0
96, BEAM , 1, 3, 86, 85, 0	130, BEAM , 1, 4, 103, 102, 0	164, BEAM , 1, 2, 1043, 140, 0
97, BEAM , 1, 3, 88, 89, 0	131, BEAM , 1, 4, 102, 101, 0	165, BEAM , 1, 1, 141, 142, 0
98, BEAM , 1, 2, 89, 1033, 0	132, BEAM , 1, 4, 101, 104, 0	166, BEAM , 1, 3, 141, 140, 0
99, BEAM , 1, 2, 1033, 91, 0	133, BEAM , 1, 4, 104, 105, 0	167, BEAM , 1, 3, 143, 144, 0
100, BEAM , 1, 2, 92, 1021, 0	134, BEAM , 1, 4, 108, 107, 0	168, BEAM , 1, 2, 144, 1053, 0
101, BEAM , 1, 2, 1021, 94, 0	135, BEAM , 1, 4, 107, 106, 0	169, BEAM , 1, 2, 1053, 146, 0
102, BEAM , 1, 1, 95, 96, 0	136, BEAM , 1, 4, 106, 109, 0	170, BEAM , 1, 2, 147, 1041, 0
103, BEAM , 1, 3, 95, 94, 0	137, BEAM , 1, 4, 109, 110, 0	171, BEAM , 1, 2, 1041, 149, 0
104, BEAM , 1, 3, 97, 98, 0	138, BEAM , 1, 4, 80, 71, 0	172, BEAM , 1, 1, 150, 151, 0
105, BEAM , 1, 2, 98, 1031, 0	139, BEAM , 1, 4, 71, 62, 0	173, BEAM , 1, 3, 150, 149, 0
106, BEAM , 1, 2, 1031, 100, 0	140, BEAM , 1, 4, 62, 89, 0	174, BEAM , 1, 3, 152, 153, 0
107, BEAM , 1, 1, 60, 101, 0	141, BEAM , 1, 4, 89, 98, 0	175, BEAM , 1, 2, 153, 1051, 0
108, BEAM , 1, 1, 69, 102, 0	142, BEAM , 1, 2, 111, 1045, 0	176, BEAM , 1, 2, 1051, 155, 0
109, BEAM , 1, 1, 78, 103, 0	143, BEAM , 1, 2, 1045, 113, 0	177, BEAM , 1, 1, 115, 156, 0
110, BEAM , 1, 1, 87, 104, 0	144, BEAM , 1, 1, 114, 115, 0	178, BEAM , 1, 1, 124, 157, 0
111, BEAM , 1, 1, 96, 105, 0	145, BEAM , 1, 3, 114, 113, 0	179, BEAM , 1, 1, 133, 158, 0

180, BEAM , 1, 1, 142, 159, 0	214, BEAM , 1, 1, 169, 170, 0	248, BEAM , 1, 1, 179, 212, 0
181, BEAM , 1, 1, 151, 160, 0	215, BEAM , 1, 3, 169, 168, 0	249, BEAM , 1, 1, 188, 213, 0
182, BEAM , 1, 1, 156, 161, 0	216, BEAM , 1, 3, 171, 172, 0	250, BEAM , 1, 1, 197, 214, 0
183, BEAM , 1, 1, 157, 162, 0	217, BEAM , 1, 2, 172, 1075, 0	251, BEAM , 1, 1, 206, 215, 0
184, BEAM , 1, 1, 158, 163, 0	218, BEAM , 1, 2, 1075, 174, 0	252, BEAM , 1, 1, 211, 216, 0
185, BEAM , 1, 1, 159, 164, 0	219, BEAM , 1, 2, 175, 1067, 0	253, BEAM , 1, 1, 212, 217, 0
186, BEAM , 1, 1, 160, 165, 0	220, BEAM , 1, 2, 1067, 177, 0	254, BEAM , 1, 1, 213, 218, 0
187, BEAM , 1, 1, 161, 116, 0	221, BEAM , 1, 1, 178, 179, 0	255, BEAM , 1, 1, 214, 219, 0
188, BEAM , 1, 1, 162, 125, 0	222, BEAM , 1, 3, 178, 177, 0	256, BEAM , 1, 1, 215, 220, 0
189, BEAM , 1, 1, 163, 134, 0	223, BEAM , 1, 3, 180, 181, 0	257, BEAM , 1, 1, 216, 171, 0
190, BEAM , 1, 1, 164, 143, 0	224, BEAM , 1, 2, 181, 1077, 0	258, BEAM , 1, 1, 217, 180, 0
191, BEAM , 1, 1, 165, 152, 0	225, BEAM , 1, 2, 1077, 183, 0	259, BEAM , 1, 1, 218, 189, 0
192, BEAM , 1, 4, 131, 122, 0	226, BEAM , 1, 2, 184, 1069, 0	260, BEAM , 1, 1, 219, 198, 0
193, BEAM , 1, 4, 122, 113, 0	227, BEAM , 1, 2, 1069, 186, 0	261, BEAM , 1, 1, 220, 207, 0
194, BEAM , 1, 4, 113, 140, 0	228, BEAM , 1, 1, 187, 188, 0	262, BEAM , 1, 4, 186, 177, 0
195, BEAM , 1, 4, 140, 149, 0	229, BEAM , 1, 3, 187, 186, 0	263, BEAM , 1, 4, 177, 168, 0
196, BEAM , 1, 4, 133, 124, 0	230, BEAM , 1, 3, 189, 190, 0	264, BEAM , 1, 4, 168, 195, 0
197, BEAM , 1, 4, 124, 115, 0	231, BEAM , 1, 2, 190, 1079, 0	265, BEAM , 1, 4, 195, 204, 0
198, BEAM , 1, 4, 115, 142, 0	232, BEAM , 1, 2, 1079, 192, 0	266, BEAM , 1, 4, 188, 179, 0
199, BEAM , 1, 4, 142, 151, 0	233, BEAM , 1, 2, 193, 1063, 0	267, BEAM , 1, 4, 179, 170, 0
200, BEAM , 1, 4, 158, 157, 0	234, BEAM , 1, 2, 1063, 195, 0	268, BEAM , 1, 4, 170, 197, 0
201, BEAM , 1, 4, 157, 156, 0	235, BEAM , 1, 1, 196, 197, 0	269, BEAM , 1, 4, 197, 206, 0
202, BEAM , 1, 4, 156, 159, 0	236, BEAM , 1, 3, 196, 195, 0	270, BEAM , 1, 4, 213, 212, 0
203, BEAM , 1, 4, 159, 160, 0	237, BEAM , 1, 3, 198, 199, 0	271, BEAM , 1, 4, 212, 211, 0
204, BEAM , 1, 4, 163, 162, 0	238, BEAM , 1, 2, 199, 1073, 0	272, BEAM , 1, 4, 211, 214, 0
205, BEAM , 1, 4, 162, 161, 0	239, BEAM , 1, 2, 1073, 201, 0	273, BEAM , 1, 4, 214, 215, 0
206, BEAM , 1, 4, 161, 164, 0	240, BEAM , 1, 2, 202, 1061, 0	274, BEAM , 1, 4, 218, 217, 0
207, BEAM , 1, 4, 164, 165, 0	241, BEAM , 1, 2, 1061, 204, 0	275, BEAM , 1, 4, 217, 216, 0
208, BEAM , 1, 4, 135, 126, 0	242, BEAM , 1, 1, 205, 206, 0	276, BEAM , 1, 4, 216, 219, 0
209, BEAM , 1, 4, 126, 117, 0	243, BEAM , 1, 3, 205, 204, 0	277, BEAM , 1, 4, 219, 220, 0
210, BEAM , 1, 4, 117, 144, 0	244, BEAM , 1, 3, 207, 208, 0	278, BEAM , 1, 4, 190, 181, 0
211, BEAM , 1, 4, 144, 153, 0	245, BEAM , 1, 2, 208, 1071, 0	279, BEAM , 1, 4, 181, 172, 0
212, BEAM , 1, 2, 166, 1065, 0	246, BEAM , 1, 2, 1071, 210, 0	280, BEAM , 1, 4, 172, 199, 0
213, BEAM , 1, 2, 1065, 168, 0	247, BEAM , 1, 1, 170, 211, 0	281, BEAM , 1, 4, 199, 208, 0

282, BEAM , 1, 2, 221, 1085, 0	316, BEAM , 1, 2, 1091, 265, 0	350, BEAM , 1, 4, 227, 254, 0
283, BEAM , 1, 2, 1085, 223, 0	317, BEAM , 1, 1, 225, 266, 0	351, BEAM , 1, 4, 254, 263, 0
284, BEAM , 1, 1, 224, 225, 0	318, BEAM , 1, 1, 234, 267, 0	352, BEAM , 1, 2, 276, 1105, 0
285, BEAM , 1, 3, 224, 223, 0	319, BEAM , 1, 1, 243, 268, 0	353, BEAM , 1, 2, 1105, 278, 0
286, BEAM , 1, 3, 226, 227, 0	320, BEAM , 1, 1, 252, 269, 0	354, BEAM , 1, 1, 279, 280, 0
287, BEAM , 1, 2, 227, 1095, 0	321, BEAM , 1, 1, 261, 270, 0	355, BEAM , 1, 3, 279, 278, 0
288, BEAM , 1, 2, 1095, 229, 0	322, BEAM , 1, 1, 266, 271, 0	356, BEAM , 1, 3, 281, 282, 0
289, BEAM , 1, 2, 230, 1087, 0	323, BEAM , 1, 1, 267, 272, 0	357, BEAM , 1, 2, 282, 1115, 0
290, BEAM , 1, 2, 1087, 232, 0	324, BEAM , 1, 1, 268, 273, 0	358, BEAM , 1, 2, 1115, 284, 0
291, BEAM , 1, 1, 233, 234, 0	325, BEAM , 1, 1, 269, 274, 0	359, BEAM , 1, 2, 285, 1107, 0
292, BEAM , 1, 3, 233, 232, 0	326, BEAM , 1, 1, 270, 275, 0	360, BEAM , 1, 2, 1107, 287, 0
293, BEAM , 1, 3, 235, 236, 0	327, BEAM , 1, 1, 271, 226, 0	361, BEAM , 1, 1, 288, 289, 0
294, BEAM , 1, 2, 236, 1097, 0	328, BEAM , 1, 1, 272, 235, 0	362, BEAM , 1, 3, 288, 287, 0
295, BEAM , 1, 2, 1097, 238, 0	329, BEAM , 1, 1, 273, 244, 0	363, BEAM , 1, 3, 290, 291, 0
296, BEAM , 1, 2, 239, 1089, 0	330, BEAM , 1, 1, 274, 253, 0	364, BEAM , 1, 2, 291, 1117, 0
297, BEAM , 1, 2, 1089, 241, 0	331, BEAM , 1, 1, 275, 262, 0	365, BEAM , 1, 2, 1117, 293, 0
298, BEAM , 1, 1, 242, 243, 0	332, BEAM , 1, 4, 241, 232, 0	366, BEAM , 1, 2, 294, 1109, 0
299, BEAM , 1, 3, 242, 241, 0	333, BEAM , 1, 4, 232, 223, 0	367, BEAM , 1, 2, 1109, 296, 0
300, BEAM , 1, 3, 244, 245, 0	334, BEAM , 1, 4, 223, 250, 0	368, BEAM , 1, 1, 297, 298, 0
301, BEAM , 1, 2, 245, 1099, 0	335, BEAM , 1, 4, 250, 259, 0	369, BEAM , 1, 3, 297, 296, 0
302, BEAM , 1, 2, 1099, 247, 0	336, BEAM , 1, 4, 243, 234, 0	370, BEAM , 1, 3, 299, 300, 0
303, BEAM , 1, 2, 248, 1083, 0	337, BEAM , 1, 4, 234, 225, 0	371, BEAM , 1, 2, 300, 1119, 0
304, BEAM , 1, 2, 1083, 250, 0	338, BEAM , 1, 4, 225, 252, 0	372, BEAM , 1, 2, 1119, 302, 0
305, BEAM , 1, 1, 251, 252, 0	339, BEAM , 1, 4, 252, 261, 0	373, BEAM , 1, 2, 303, 1103, 0
306, BEAM , 1, 3, 251, 250, 0	340, BEAM , 1, 4, 268, 267, 0	374, BEAM , 1, 2, 1103, 305, 0
307, BEAM , 1, 3, 253, 254, 0	341, BEAM , 1, 4, 267, 266, 0	375, BEAM , 1, 1, 306, 307, 0
308, BEAM , 1, 2, 254, 1093, 0	342, BEAM , 1, 4, 266, 269, 0	376, BEAM , 1, 3, 306, 305, 0
309, BEAM , 1, 2, 1093, 256, 0	343, BEAM , 1, 4, 269, 270, 0	377, BEAM , 1, 3, 308, 309, 0
310, BEAM , 1, 2, 257, 1081, 0	344, BEAM , 1, 4, 273, 272, 0	378, BEAM , 1, 2, 309, 1113, 0
311, BEAM , 1, 2, 1081, 259, 0	345, BEAM , 1, 4, 272, 271, 0	379, BEAM , 1, 2, 1113, 311, 0
312, BEAM , 1, 1, 260, 261, 0	346, BEAM , 1, 4, 271, 274, 0	380, BEAM , 1, 2, 312, 1101, 0
313, BEAM , 1, 3, 260, 259, 0	347, BEAM , 1, 4, 274, 275, 0	381, BEAM , 1, 2, 1101, 314, 0
314, BEAM , 1, 3, 262, 263, 0	348, BEAM , 1, 4, 245, 236, 0	382, BEAM , 1, 1, 315, 316, 0
315, BEAM , 1, 2, 263, 1091, 0	349, BEAM , 1, 4, 236, 227, 0	383, BEAM , 1, 3, 315, 314, 0

384, BEAM , 1, 3, 317, 318, 0	418, BEAM , 1, 4, 300, 291, 0	452, BEAM , 1, 2, 82, 129, 0
385, BEAM , 1, 2, 318, 1111, 0	419, BEAM , 1, 4, 291, 282, 0	453, BEAM , 1, 2, 73, 120, 0
386, BEAM , 1, 2, 1111, 320, 0	420, BEAM , 1, 4, 282, 309, 0	454, BEAM , 1, 2, 64, 111, 0
387, BEAM , 1, 1, 280, 321, 0	421, BEAM , 1, 4, 309, 318, 0	455, BEAM , 1, 2, 91, 138, 0
388, BEAM , 1, 1, 289, 322, 0	422, BEAM , 2, 5, 1120, 1125, 0	456, BEAM , 1, 2, 100, 147, 0
389, BEAM , 1, 1, 298, 323, 0	423, BEAM , 2, 5, 1121, 1126, 0	457, BEAM , 1, 2, 192, 239, 0
390, BEAM , 1, 1, 307, 324, 0	424, BEAM , 2, 5, 1122, 1127, 0	458, BEAM , 1, 2, 183, 230, 0
391, BEAM , 1, 1, 316, 325, 0	425, BEAM , 2, 5, 1123, 1128, 0	459, BEAM , 1, 2, 174, 221, 0
392, BEAM , 1, 1, 321, 326, 0	426, BEAM , 2, 5, 1124, 1129, 0	460, BEAM , 1, 2, 201, 248, 0
393, BEAM , 1, 1, 322, 327, 0	427, BEAM , 2, 6, 1125, 1130, 0	461, BEAM , 1, 2, 210, 257, 0
394, BEAM , 1, 1, 323, 328, 0	428, BEAM , 2, 6, 1126, 1131, 0	462, BEAM , 1, 2, 247, 294, 0
395, BEAM , 1, 1, 324, 329, 0	429, BEAM , 2, 6, 1127, 1132, 0	463, BEAM , 1, 2, 238, 285, 0
396, BEAM , 1, 1, 325, 330, 0	430, BEAM , 2, 6, 1128, 1133, 0	464, BEAM , 1, 2, 229, 276, 0
397, BEAM , 1, 1, 326, 281, 0	431, BEAM , 2, 6, 1129, 1134, 0	465, BEAM , 1, 2, 256, 303, 0
398, BEAM , 1, 1, 327, 290, 0	432, BEAM , 2, 7, 1130, 1140, 0	466, BEAM , 1, 2, 265, 312, 0
399, BEAM , 1, 1, 328, 299, 0	433, BEAM , 2, 7, 1131, 1142, 0	*GROUP ; Group
400, BEAM , 1, 1, 329, 308, 0	434, BEAM , 2, 7, 1132, 1144, 0	; NAME, NODE_LIST, ELEM_LIST,
401, BEAM , 1, 1, 330, 317, 0	435, BEAM , 2, 7, 1133, 1146, 0	PLANE_TYPE
402, BEAM , 1, 4, 296, 287, 0	436, BEAM , 2, 7, 1134, 1148, 0	Strt Group 1, 1000to1119, , 0
403, BEAM , 1, 4, 287, 278, 0	437, BEAM , 2, 7, 1140, 1141, 0	*MATERIAL ; Material
404, BEAM , 1, 4, 278, 305, 0	438, BEAM , 2, 7, 1141, 1135, 0	; iMAT, TYPE, MNAME, SPHEAT, HEATCO,
405, BEAM , 1, 4, 305, 314, 0	439, BEAM , 2, 7, 1142, 1143, 0	PLAST, TUNIT, bMASS, DAMPRATIO,
406, BEAM , 1, 4, 298, 289, 0	440, BEAM , 2, 7, 1143, 1136, 0	[DATA1] ; STEEL, CONC, USER
407, BEAM , 1, 4, 289, 280, 0	441, BEAM , 2, 7, 1144, 1145, 0	; iMAT, TYPE, MNAME, SPHEAT, HEATCO,
408, BEAM , 1, 4, 280, 307, 0	442, BEAM , 2, 7, 1145, 1137, 0	PLAST, TUNIT, bMASS, DAMPRATIO,
409, BEAM , 1, 4, 307, 316, 0	443, BEAM , 2, 7, 1146, 1147, 0	[DATA2], [DATA2] ; SRC
410, BEAM , 1, 4, 323, 322, 0	444, BEAM , 2, 7, 1147, 1138, 0	; [DATA1] : 1, DB, NAME, CODE
411, BEAM , 1, 4, 322, 321, 0	445, BEAM , 2, 7, 1148, 1149, 0	; [DATA1] : 2, ELAST, POISN, THERMAL,
412, BEAM , 1, 4, 321, 324, 0	446, BEAM , 2, 7, 1149, 1139, 0	DEN, MASS
413, BEAM , 1, 4, 324, 325, 0	447, BEAM , 1, 2, 24, 74, 0	; [DATA1] : 3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy,
414, BEAM , 1, 4, 328, 327, 0	448, BEAM , 1, 2, 16, 65, 0	Sxz, Syz, Pxy, Pxz, Pyz, DEN, MASS ;
415, BEAM , 1, 4, 327, 326, 0	449, BEAM , 1, 2, 8, 56, 0	Orthotropic
416, BEAM , 1, 4, 326, 329, 0	450, BEAM , 1, 2, 32, 83, 0	; [DATA2] : 1, DB, NAME, CODE or 2,
417, BEAM , 1, 4, 329, 330, 0	451, BEAM , 1, 2, 40, 92, 0	ELAST, POISN, THERMAL, DEN, MASS
		1, CONC , C40 , 0, 0, ,
		C, YES, 0.05, 1, KSCE-LSD12(RC),
		, C40
		2, CONC , C21 , 0, 0, ,
		C, YES, 0.05, 1, KSCE-LSD12(RC),
		, C21
		4, CONC , C27 , 0, 0, ,
		C, YES, 0.05, 1, KSCE-LSD12(RC),
		, C27
		*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
		4, 255, 0, 0, 0, 255, 0, 0,
		0, 255, NO, 0.5
		*SECTION ; Section

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; ISEC, TYPE, SNAME, [OFFSET], bSD, ; 3rd line(STYPE=PSC-CMPW) ; 11th
SHAPE, [DATA1], [DATA2] ; bUSERDEFMESH SIZE, MESH SIZE, line(STYPE=CMP-CI/CT)
; 1st line - DB/USER bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; ISEC, TYPE, SNAME, [OFFSET], bSD,
; ISEC, TYPE, SNAME, [OFFSET], bSD, ; 4th line(STYPE=PSC) STYPE2
SHAPE, BLT, D1, ..., D8, ICEL ; ; [SIZE-A]-i ; 1st line - CONSTRUCT
1st line - VALUE ; 5th ; SHAPE, ...(same with other type data
; AREA, ASy, ASz, lxx, lyy, lzz line(STYPE=PSC) from shape) ; Before
; ; 2nd line ; (STYPE1)
; CyP, CyM, CzP, CzM, QyB, QzB, ; 6th ; SHAPE, ...(same with other type data
PERI_OUT, PERI_IN, Cy, Cz ; line(STYPE=PSC) from shape) ; After
3rd line ; (STYPE2)
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, ; 7th ; ISEC, TYPE, SNAME, [OFFSET], bSD,
Zzz ; 4th line line(STYPE=PSC) S H A P E
; ISEC, TYPE, SNAME, [OFFSET], bSD, ; [SIZE-D]-i ; 1st line - COMPOSITE-SB
SHAPE, ELAST, DEN, POIS, POIC, SF ; 8th ; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2
; 1st line - SRC line(STYPE=PSC) ; 2nd line
; D1, D2, [SRC] ; [SIZE-A]-j ; N1, N2, Hr, Hr2, tr1, tr2
; 2nd line ; 9th ; 3rd line
; ISEC, TYPE, SNAME, [OFFSET], bSD, line(STYPE=PSC) ; SW, GN, CTC, Bc, Tc, Hh, EsEc,
SHAPE, 1, DB, NAME1, NAME2, D1, D2 ; [SIZE-B]-j ; DsDc, Ps, Pc, bMulti, Elong, Esh ;
; 1st line - COMBINED ; 10th ; 4th line
; ISEC, TYPE, SNAME, [OFFSET], bSD, line(STYPE=PSC) ; ISEC, TYPE, SNAME, [OFFSET], bSD,
SHAPE, 2, D11, D12, D13, D14, D15, D21, ; [SIZE-C]-j S H A P E
D22, D23, D24 ; 11th ; 1st line - COMPOSITE-SI
; ISEC, TYPE, SNAME, [OFFSET2], bSD, line(STYPE=PSC) ; Hw, tw, B, tf1, B2, tf2
SHAPE, iyVAR, izVAR, STYPE ; [SIZE-D]-j ; 2nd line
; 1st line - TAPERED ; 12th ; SW, GN, CTC, Bc, Tc, Hh, EsEc,
; DB, NAME1, NAME2 line(STYPE=PSC) DsDc, Ps, Pc, bMulti, Elong, Esh ;
; 2nd ; 3rd line
line(STYPE=DB) ; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, ; ISEC, TYPE, SNAME, [OFFSET], bSD,
; [DIM1], [DIM2] 2nd line(STYPE=CMP-B/I) S H A P E
; 2nd ; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, ; 1st line - COMPOSITE-CI/CT
line(STYPE=USER) B2_j, Bf2_j, tf2_j ; 3rd ; OPT1, OPT2, [JOINT]
; D11, D12, D13, D14, D15, D16, D17, line(STYPE=CMP-B/I) ; 2nd
D18 ; 2nd ; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, line
line(STYPE=VALUE) B2_j, Bf2_j, tf2_j ; 4th ; [SIZE-A]
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1 line(STYPE=CMP-B/I) ; 3rd line
; 3rd ; N1, N2, Hr, Hr2, tr1, tr2 ; [SIZE-B]
line(STYPE=VALUE) ; 5th ; 4th line
; CyP1, CyM1, CzP1, CzM1, QyB1, line(STYPE=CMP-B) ; [SIZE-C]
QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ; GN, CTC, Bc, Tc, Hh, EgdEsb, ; 5th line
4th line(STYPE=VALUE) DgdDsb, Pgd, Psb, bSYM, SW_j, SW_j ; [SIZE-D]
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, ; 2nd line(STYPE=CMP-CI/CT) ; 6th line
Z14, Zyy1, Zyy2 ; 5th ; OPT1, OPT2, [JOINT] ; SW, GN, CTC, Bc, Tc, Hh, EgdEsb,
line(STYPE=VALUE) ; 3rd DgdDsb, Pgd, Psb ;
; D21, D22, D23, D24, D25, D26, D27, line(STYPE=CMP-CI/CT) ; 7th line
D28 ; 6th ; [SIZE-A]-i ; ISEC, TYPE, SNAME, [OFFSET], bSD,
line(STYPE=VALUE) ; 4th S H A P E
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2 line(STYPE=CMP-CI/CT) ; 1st line - PSC
; 7th ; [SIZE-B]-i ; OPT1, OPT2, [JOINT]
line(STYPE=VALUE) ; 5th ; 2nd
; CyP2, CyM2, CzP2, CzM2, QyB2, line(STYPE=CMP-CI/CT) line
QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ; ; bSHEARCHK, [SCHK], [WT], WIDTH,
8th line(STYPE=VALUE) ; bSYM, bSIDEHOLE ;
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, line(STYPE=CMP-CI/CT) 3rd line
Z24, Zyy2, Zzz2 ; 9th ; [SIZE-D]-i ; bUSERDEFMESH SIZE, MESH SIZE,
line(STYPE=VALUE) ; 7th bUSERINPSTIFF, [STIFF]
; OPT1, OPT2, [JOINT] line(STYPE=CMP-CI/CT) ; 4th line
; 2nd ; [SIZE-A]-j ; [SIZE-A]
line(STYPE=PSC) ; 8th ; 5th line
; ELAST, DEN, POIS, POIC line(STYPE=CMP-CI/CT) ; [SIZE-B]
; 2nd ; [SIZE-B]-j ; 6th line
line(STYPE=PSC-CMPW) ; 9th ; [SIZE-C]
; bSHEARCHK, [SCHK-I], [SCHK-J], line(STYPE=CMP-CI/CT) ; 7th line
[WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE ; [SIZE-C]-j ; [SIZE-D]
; 3rd line(STYPE=PSC) ; 10th ; 8th line
; bSHEARCHK, bSYM, bHUNCH, line(STYPE=CMP-CI/CT) ; [DATA1] : 1, DB, NAME or 2, D1, D2, D3,
[CMPEWB-I], [CMPEWB-J] ; [SIZE-D]-j D4, D5, D6, D7, D8, D9, D10

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; [DATA2] : CCSHAPE or ICEL or IN1, IN2          0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0, 0.2          ; 2nd
; [SRC] : 1, DB, NAME1, NAME2 or 2, D1,         0.1, 0.32, 0, 0, 0.3, 0, 0          line(STYPE=DB)
D2, D3, D4, D5, D6, D7, D8, D9, D10, IN1,       0, 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,          ; [DIM1], [DIM2]
IN2          0.01          ; 2nd
; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6,      0.29, 0.32, 0, 0, 0.3, 0, 0          line(STYPE=USER)
D7, D8          0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,          ; D11, D12, D13, D14, D15, D16, D17,
; [OFFSET] : OFFSET, ICENT, IREF, IHORZ,        0.01          D18          ; 2nd
HUSER, IVERT, VUSER          0.29, 0.32, 0, 0, 0.3, 0, 0          line(STYPE=VALUE)
; [OFFSET2] : OFFSET, ICENT, IREF, IHORZ,      4, DBUSER , cross , CB,          ; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
HUSERI, HUSERJ, IVERT, VUSERI, VUSERJ        0, 0, 0, 0, 1, 1, YES, SB , 2, 1.5, 0.4, 0, 0,          ; 3rd
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL),        0, 0, 0, 0, 0, 0          line(STYPE=VALUE)
9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB),          5, DBUSER , COP1 ,          ; CyP1, CyM1, CzP1, CzM1, QyB1,
0(nCELL), 2(nCEL2)          CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.5, 10.5,          QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1 ;
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL),      0, 0, 0, 0, 0, 0, 0          4th line(STYPE=VALUE)
10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB),        6, TAPERED , COP2 ,          ; Y11, Y12, Y13, Y14, Z11, Z12, Z13,
5(nCELL), 11(nCEL2)          CC, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1,          Z14, Zyy1, Zyy2          ; 5th
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL),      USER          line(STYPE=VALUE)
6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB),          2.5, 10.5, 0, 0, 0, 0, 0, 0, 2.5, 2.5,          ; D21, D22, D23, D24, D25, D26, D27,
8(nCELL), 18(nCEL2)          0, 0, 0, 0, 0, 0          D28          ; 6th
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL),      7, DBUSER , Pier , CC,          line(STYPE=VALUE)
9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB),          0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5, 0, 0, 0,          ; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2
0(nCELL), 11(nCEL2)          0, 0, 0, 0, 0, 0          ; 7th
; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL),      *SECT-COLOR          line(STYPE=VALUE)
6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB),          : iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B,          ; CyP2, CyM2, CzP2, CzM2, QyB2,
0(nCELL), 18(nCEL2)          HE_R, HE_G, HE_B, bBLEND, FACT          QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2 ;
; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz      1, 255, 0, 0, 0, 255, 0, 0,          8th line(STYPE=VALUE)
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3          0, 255, NO, 0.5          ; Y21, Y22, Y23, Y24, Z21, Z22, Z23,
; [WT] : bAUTO_TOR, TOR,                      2, 255, 0, 0, 0, 255, 0, 0,          Z24, Zyy2, Zzz2          ; 9th
bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2,          0, 255, NO, 0.5          line(STYPE=VALUE)
bAUTO_SHR3, SHR3          3, 255, 0, 0, 0, 255, 0, 0,          ; OPT1, OPT2, [JOINT]
; [CMPWEB] : EFD, LRF, A, B, H, T              0, 255, NO, 0.5          ; 2nd
1, PSC , PSC b-b , CB,          4, 255, 0, 0, 0, 255, 0, 0,          line(STYPE=PSC)
0, 0, 0, 0, 0, 0, YES, PSCI          0, 255, NO, 0.5          ; ELAST, DEN, POIS, POIC
, , NO, NO, NO, NO, NO, NO, NO,          5, 255, 0, 0, 0, 255, 0, 0,          ; 2nd
NO, NO          0, 255, NO, 0.5          line(STYPE=PSC-CMPW)
YES, YES, 1.5, YES, 0.4, NO, 0, NO,          6, 255, 0, 0, 0, 255, 0, 0,          ; bSHEARCHK, [SCHK-I], [SCHK-J],
0, NO, 0, NO, 0, 0, YES, NO          0, 255, NO, 0.5          [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE
NO, , NO, , , , ,          7, 255, 0, 0, 0, 255, 0, 0,          ; 3rd line(STYPE=PSC)
0, 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0,        0, 255, NO, 0.5          ; bSHEARCHK, bSYM, bHUNCH,
0.2          *DGN-SECT          [CMPWEB-I], [CMPWEB-J]
0.1, 0.32, 0, 0, 0.3, 0, 0          ; iSEC, TYPE, SNAME, [OFFSET], bSD,          ; 3rd line(STYPE=PSC-CMPW)
0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0, 0.2        SHAPE, [DATA1], [DATA2]          ; bUSERDEFMESH SIZE, MESH SIZE,
0.1, 0.32, 0, 0, 0.3, 0, 0          ; 1st line - DB/USER          bUSERINPSTIFF, [STIFF-I], [STIFF-J]
2, PSC , PSC a-a , CB,          ; iSEC, TYPE, SNAME, [OFFSET], bSD,          ; 4th line(STYPE=PSC)
0, 0, 0, 0, 0, 0, YES, PSCI          SHAPE, BLT, D1, ..., D8, ICEL          ; [SIZE-A]-i
, , NO, NO, NO, NO, NO, NO, NO,          1st line - VALUE          ; 5th
NO, NO          ; AREA, ASy, ASz, lxx, lyy, lzz          line(STYPE=PSC)
YES, YES, 1.58, YES, 0.02, NO, 0,          ; 2nd line          ; [SIZE-B]-i
NO, 0, NO, 0, NO, 0, 0, YES, NO          ; CyP, CyM, CzP, CzM, QyB, QzB,          ; 6th
NO, , NO, , , , ,          PERI_OUT, PERI_IN, Cy, Cz          line(STYPE=PSC)
0, 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,        3rd line          ; [SIZE-C]-i
0.01          ; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy,          ; 7th
0.29, 0.32, 0, 0, 0.3, 0, 0          Zzz          line(STYPE=PSC)
0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,          ; iSEC, TYPE, SNAME, [OFFSET], bSD,          ; [SIZE-D]-i
0.01          SHAPE, ELAST, DEN, POIS, POIC, SF          ; 8th
0.29, 0.32, 0, 0, 0.3, 0, 0          ; 1st line - SRC          line(STYPE=PSC)
3, TAPERED , PSC-tap ,          ; D1, D2, [SRC]          ; [SIZE-A]-j
CB, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1,        ; 2nd line          ; 9th
PSC          ; iSEC, TYPE, SNAME, [OFFSET], bSD,          line(STYPE=PSC)
, , NO, NO, NO, NO, NO, NO, NO,          SHAPE, 1, DB, NAME1, NAME2, D1, D2          ; [SIZE-B]-j
NO, NO          ; 1st line - COMBINED          ; 10th
YES, YES, 0, YES, 0, YES, 0, YES, 0,          ; iSEC, TYPE, SNAME, [OFFSET], bSD,          line(STYPE=PSC)
YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,        SHAPE, 2, D11, D12, D13, D14, D15, D21,          ; [SIZE-C]-j
YES, 0, YES, 0, YES, 0, 0, 0, YES, NO          D22, D23, D24          ; 11th
NO, , NO, , , , , , ,          ; iSEC, TYPE, SNAME, [OFFSET2], bSD,          line(STYPE=PSC)
0, 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0,        SHAPE, iyVAR, izVAR, STYPE          ; [SIZE-D]-j
0.2          ; 1st line - TAPERED          ; 12th
0.1, 0.32, 0, 0, 0.3, 0, 0          ; DB, NAME1, NAME2          line(STYPE=PSC)

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; GN, CTC, Bc, Tc, Hh, EsEc, DsDc, 3rd line bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2,
Ps, Pc, bMULTI, EsEc-L, EsEc-S ; iSEC, TYPE, SNAME, [OFFSET], bSD, bAUTO_SHR3, SHR3
2nd line(STYPE=CMP-B/I) S H A P E ; [CMPWEB] : EFD, LRF, A, B, H, T
; SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, 1st line - COMPOSITE-CI/CT 1, PSC , PSC b-b , CB,
B2_i, Bf2_i, tf2_i ; 3rd ; OPT1, OPT2, [JOINT] 0, 0, 0, 0, 0, YES, PSCI
line(STYPE=CMP-B/I) ; 2nd , , NO, NO, NO, NO, NO, NO, NO, NO
; SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, line NO, NO
B2_j, Bf2_j, tf2_j ; 4th ; [SIZE-A] YES, YES, 1.5, YES, 0.4, NO, 0, NO,
line(STYPE=CMP-B/I) ; 3rd line 0, NO, 0, NO, 0, 0, YES, NO
; N1, N2, Hr, Hr2, tr1, tr2 ; [SIZE-B] NO, , NO, , , , ,
; ; 5th ; 4th line 0, 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0,
line(STYPE=CMP-B) ; [SIZE-C] 0.2
; GN, CTC, Bc, Tc, Hh, EgDEsb, ; 5th line 0.1, 0.32, 0, 0, 0.3, 0, 0
DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j ; [SIZE-D] 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0, 0.2
; 2nd line(STYPE=CMP-CI/CT) ; 6th line 0.1, 0.32, 0, 0, 0.3, 0, 0
; OPT1, OPT2, [JOINT] ; SW, GN, CTC, Bc, Tc, Hh, EgDEsb, 2, PSC , PSC a-a , CB,
; 3rd DgdDsb, Pgd, Psb ; 0, 0, 0, 0, 0, 0, YES, PSCI
line(STYPE=CMP-CI/CT) 7th line , , NO, NO, NO, NO, NO, NO, NO, NO
; [SIZE-A]-i ; iSEC, TYPE, SNAME, [OFFSET], bSD, NO, NO
; 4th S H A P E YES, YES, 1.58, YES, 0.02, NO, 0,
line(STYPE=CMP-CI/CT) ; 1st line - PSC NO, 0, NO, 0, NO, 0, 0, YES, NO
; [SIZE-B]-i ; OPT1, OPT2, [JOINT] NO, , NO, , , , ,
; 5th ; 2nd 0, 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,
line(STYPE=CMP-CI/CT) line 0.01
; [SIZE-C]-i ; bSHEARCHK, [SCHK], [WT], WIDTH, 0.29, 0.32, 0, 0, 0.3, 0, 0
; 6th bSYM, bSIDEHOLE ; 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,
line(STYPE=CMP-CI/CT) 3rd line 0.01
; [SIZE-D]-i ; bUSERDEFMESH SIZE, MESH SIZE, 0.29, 0.32, 0, 0, 0.3, 0, 0
; 7th bUSERINPSTIFF, [STIFF] 3, TAPERED , PSC-tap ,
line(STYPE=CMP-CI/CT) ; 4th line CB, 0, 0, 0, 0, 0, 0, 0, 0, YES, PSCI, 1, 1,
; [SIZE-A]-j ; [SIZE-A] PSC
; 8th ; 5th line , , NO, NO, NO, NO, NO, NO, NO, NO,
line(STYPE=CMP-CI/CT) ; [SIZE-B] NO, NO
; [SIZE-B]-j ; 6th line YES, YES, 0, YES, 0, YES, 0, YES, 0,
; 9th ; [SIZE-C] YES, 0, YES, 0, YES, 0, YES, 0, YES, 0,
line(STYPE=CMP-CI/CT) ; 7th line YES, 0, YES, 0, YES, 0, 0, 0, YES, NO
; [SIZE-C]-j ; [SIZE-D] NO, , NO, , , , , , ,
; 10th ; 8th line 0, 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0,
line(STYPE=CMP-CI/CT) ; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, 0.2
; [SIZE-D]-j D4, D5, D6, D7, D8, D9, D10 0.1, 0.32, 0, 0, 0.3, 0, 0
; 11th ; [DATA2] : CSHAPE or ICEL or iN1, iN2 0.16, 0.09, 0, 0, 1.1, 0.2, 0, 0, 0.2
line(STYPE=CMP-CI/CT) ; [SRC] : 1, DB, NAME1, NAME2 or 2, D1, 0.1, 0.32, 0, 0, 0.3, 0, 0
; iSEC, TYPE, SNAME, [OFFSET], bSD, D2, D3, D4, D5, D6, D7, D8, D9, D10, iN1, 0, 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,
STYLE1, STYLE2 ; iN2 0.01
; 1st line - CONSTRUCT ; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, 0.29, 0.32, 0, 0, 0.3, 0, 0
; SHAPE, ...(same with other type data ; D7, D8 0.16, 0.01, 0, 0, 1.56, 0.01, 0, 0,
from shape) ; Before ; [OFFSET] : OFFSET, ICENT, IREF, iHORZ, 0.01
(STYPE1) HUSER, iVERT, VUSER ; 0.29, 0.32, 0, 0, 0.3, 0, 0
; SHAPE, ...(same with other type data ; [OFFSET2]: OFFSET, ICENT, IREF, iHORZ, 4, DBUSER , cross , CB,
from shape) ; After HUSERI, HUSERJ, iVERT, VUSERI, VUSERJ 0, 0, 0, 0, 1, 1, YES, SB , 2, 1.5, 0.4, 0, 0,
(STYPE2) ; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 0, 0, 0, 0, 0, 0
; iSEC, TYPE, SNAME, [OFFSET], bSD, 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 5, DBUSER , COP1 ,
S H A P E 0(nCELL), 2(nCEL2) CC, 0, 0, 0, 0, 0, 0, YES, SB , 2, 2.5, 10.5,
; 1st line - COMPOSITE-SB ; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 0, 0, 0, 0, 0, 0, 0, 0
; Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 6, TAPERED , COP2 ,
; 2nd line 5(nCELL), 11(nCEL2) CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, SB , 1, 1,
; N1, N2, Hr, Hr2, tr1, tr2 ; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), USER
; 3rd line 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 2.5, 10.5, 0, 0, 0, 0, 0, 0, 2.5, 2.5,
; SW, GN, CTC, Bc, Tc, Hh, EsEc, 8(nCELL), 18(nCEL2) 0, 0, 0, 0, 0, 0
DsDc, Ps, Pc, bMulti, Elong, Esh ; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 7, DBUSER , Pier , CC,
4th line 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0, 0, 0, 0, 0, 0, YES, SR , 2, 2.5, 0, 0, 0,
; iSEC, TYPE, SNAME, [OFFSET], bSD, 0(nCELL), 11(nCEL2) 0, 0, 0, 0, 0, 0
S H A P E ; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), *STLDCASE ; Static Load Cases
; 1st line - COMPOSITE-SI 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), ; LCNAME, LCTYPE, DESC
; Hw, tw, B, tf1, B2, tf2 0(nCELL), 18(nCEL2) 고정하중, USER,
; 2nd line ; [STIFF] : AREA, ASy, ASz, lxx, lyy, lzz 2차 고정하중, USER,
; SW, GN, CTC, Bc, Tc, Hh, EsEc, ; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3 *CONSTRAINT ; Supports
DsDc, Ps, Pc, bMulti, Elong, Esh ; [WT] : bAUTO_TOR, TOR, ; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz),

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GROUP		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	2397, 2397, 0, 0, 0, NO, 0.5, 0.5,
1000to1008by2	1110to1118by2	27, 1025, 1024, GEN , 0, 10000,	61, 1018, 1016, RIGID, 0, NO, 0.5,
1135to1139, 111111,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
*ELASTICLINK		28, 1035, 1034, GEN , 0, 10000,	62, 1028, 1026, RIGID, 0, NO, 0.5,
: INO, INODE1, INODE2, LINK, ANGLE, SDx,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
SDy, SDz, SRx, SRy, SRz, bSHEAR, DRy,		29, 1045, 1044, GEN , 0, 10000,	63, 1038, 1036, RIGID, 0, NO, 0.5,
DRz, GROUP : GEN		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
: INO, INODE1, INODE2, LINK, ANGLE,		30, 1055, 1054, GEN , 0, 10000,	64, 1048, 1046, RIGID, 0, NO, 0.5,
bSHEAR, DRy, DRz, GROUP		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
: RIGID		31, 1065, 1064, GEN , 0, 10000,	65, 1058, 1056, RIGID, 0, NO, 0.5,
: INO, INODE1, INODE2, LINK, ANGLE, SDx,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
bSHEAR, DRy, DRz, GROUP		32, 1075, 1074, GEN , 0, 10000,	66, 1068, 1066, RIGID, 0, NO, 0.5,
: TENS,COMP		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
: INO, INODE1, INODE2, LINK, ANGLE,		33, 1085, 1084, GEN , 0, 10000,	67, 1078, 1076, RIGID, 0, NO, 0.5,
(UN)SYM, NUM, DIST1, FORCE1 ... DIST10,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
FORCE10, DIR, bSHEAR, DRENDI, GROUP :		34, 1095, 1094, GEN , 0, 10000,	68, 1088, 1086, RIGID, 0, NO, 0.5,
MULTI LINEAR		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
1, 1009, 1008, GEN , 0, 10000,		35, 1105, 1104, GEN , 0, 10000,	69, 1098, 1096, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
2, 1019, 1018, GEN , 0, 10000,		36, 1115, 1114, GEN , 0, 10000,	70, 1016, 1014, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
3, 1029, 1028, GEN , 0, 10000,		37, 1003, 1002, GEN , 0, 10000,	71, 1026, 1024, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
4, 1039, 1038, GEN , 0, 10000,		38, 1013, 1012, GEN , 0, 10000,	72, 1036, 1034, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
5, 1049, 1048, GEN , 0, 10000,		39, 1023, 1022, GEN , 0, 10000,	73, 1046, 1044, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
6, 1059, 1058, GEN , 0, 10000,		40, 1033, 1032, GEN , 0, 10000,	74, 1056, 1054, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
7, 1069, 1068, GEN , 0, 10000,		41, 1043, 1042, GEN , 0, 10000,	75, 1066, 1064, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
8, 1079, 1078, GEN , 0, 10000,		42, 1053, 1052, GEN , 0, 10000,	76, 1076, 1074, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
9, 1089, 1088, GEN , 0, 10000,		43, 1063, 1062, GEN , 0, 10000,	77, 1086, 1084, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
10, 1099, 1098, GEN , 0, 10000,		44, 1073, 1072, GEN , 0, 10000,	78, 1096, 1094, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
11, 1109, 1108, GEN , 0, 10000,		45, 1083, 1082, GEN , 0, 10000,	79, 1014, 1012, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
12, 1119, 1118, GEN , 0, 10000,		46, 1093, 1092, GEN , 0, 10000,	80, 1024, 1022, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
13, 1007, 1006, GEN , 0, 10000,		47, 1103, 1102, GEN , 0, 10000,	81, 1034, 1032, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
14, 1017, 1016, GEN , 0, 10000,		48, 1113, 1112, GEN , 0, 10000,	82, 1044, 1042, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
15, 1027, 1026, GEN , 0, 10000,		49, 1001, 1000, GEN , 0, 10000,	83, 1054, 1052, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
16, 1037, 1036, GEN , 0, 10000,		50, 1011, 1010, GEN , 0, 10000,	84, 1064, 1062, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
17, 1047, 1046, GEN , 0, 10000,		51, 1021, 1020, GEN , 0, 10000,	85, 1074, 1072, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
18, 1057, 1056, GEN , 0, 10000,		52, 1031, 1030, GEN , 0, 10000,	86, 1084, 1082, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
19, 1067, 1066, GEN , 0, 10000,		53, 1041, 1040, GEN , 0, 10000,	87, 1094, 1092, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
20, 1077, 1076, GEN , 0, 10000,		54, 1051, 1050, GEN , 0, 10000,	88, 1012, 1010, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
21, 1087, 1086, GEN , 0, 10000,		55, 1061, 1060, GEN , 0, 10000,	89, 1022, 1020, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
22, 1097, 1096, GEN , 0, 10000,		56, 1071, 1070, GEN , 0, 10000,	90, 1032, 1030, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
23, 1107, 1106, GEN , 0, 10000,		57, 1081, 1080, GEN , 0, 10000,	91, 1042, 1040, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
24, 1117, 1116, GEN , 0, 10000,		58, 1091, 1090, GEN , 0, 10000,	92, 1052, 1050, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
25, 1005, 1004, GEN , 0, 10000,		59, 1101, 1100, GEN , 0, 10000,	93, 1062, 1060, RIGID, 0, NO, 0.5,
2397, 2397, 0, 0, 0, NO, 0.5, 0.5,		2397, 2397, 0, 0, 0, NO, 0.5, 0.5,	0.5,
26, 1015, 1014, GEN , 0, 10000,		60, 1111, 1110, GEN , 0, 10000,	94, 1072, 1070, RIGID, 0, NO, 0.5,

```

0.5,
95, 1082, 1080, RIGID, 0, NO, 0.5,
0.5,
96, 1092, 1090, RIGID, 0, NO, 0.5,
0.5,
97, 1108, 1106, RIGID, 0, NO, 0.5,
0.5,
98, 1106, 1104, RIGID, 0, NO, 0.5,
0.5,
99, 1104, 1102, RIGID, 0, NO, 0.5,
0.5,
100, 1102, 1100, RIGID, 0, NO, 0.5,
0.5,
101, 1094, 1124, RIGID, 0, NO, 0.5,
0.5,
102, 1124, 1104, RIGID, 0, NO, 0.5,
0.5,
103, 1074, 1123, RIGID, 0, NO, 0.5,
0.5,
104, 1123, 1084, RIGID, 0, NO, 0.5,
0.5,
105, 1054, 1122, RIGID, 0, NO, 0.5,
0.5,
106, 1122, 1064, RIGID, 0, NO, 0.5,
0.5,
107, 1034, 1121, RIGID, 0, NO, 0.5,
0.5,
108, 1121, 1044, RIGID, 0, NO, 0.5,
0.5,
109, 1014, 1120, RIGID, 0, NO, 0.5,
0.5,
110, 1120, 1024, RIGID, 0, NO, 0.5,
0.5,
: *LOADTOMASS, DIR, bNODAL, bBEAM,
bFLOOR, bPRES, GRAV
: LCNAME1, FACTOR1, LCNAME2,
FACTOR2, ... : from line 1
*LOADTOMASS, XYZ, YES, YES, YES, YES,
9.806
2차 고정하중, 1
*USE-STLD, 고정하중
: *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
: End of data for load case [고정하중]
-----
*USE-STLD, 2차 고정하중
*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, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
2, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
4, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
5, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
6, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
7, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
8, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
9, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
10, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
11, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
12, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
13, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
14, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
15, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
16, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
17, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
18, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
19, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
20, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
21, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
22, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
23, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
24, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
25, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
26, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
27, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
28, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
29, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
30, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
31, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
32, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
33, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
34, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
35, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
36, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
37, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
38, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
39, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
40, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
41, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
42, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
43, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
44, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
45, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
46, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
47, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
48, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
49, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
50, BEAM , UNILOAD, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO

```



```
312, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
313, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
314, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
315, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
316, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
317, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
318, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
319, BEAM    , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
320, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
321, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
322, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0. , NO, 0, 0, NO
```

```
323, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
324, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0. , NO, 0, 0, NO
```

```
325, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
```

```
326, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0. , NO, 0, 0, NO
```

```
327, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 NO 0 0 NO
```

```
328, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 NO 0 0 NO
```

```
329, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 NO 0 0 NO
```

```
330, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 NO 0 0 NO
```

```
331, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 , NO 0 0 NO
```

```
352, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 , NO , 0 , 0 , NO
```

```

353, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
0 , NO , 0 , 0 , NO

```

```
354, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , 0, -21.01, 1, -21.01, 0, 0, 0,
```

```

0, , NO, 0, 0, NO
355, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
356, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
357, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
358, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
359, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
360, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
361, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
362, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
363, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
364, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
365, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
366, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
367, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
368, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
369, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
370, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
371, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
372, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
373, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
374, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
375, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
376, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
377, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
378, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
379, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
380, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
381, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
382, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
383, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
384, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
385, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
386, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
387, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
388, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
389, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
390, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
391, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
392, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
393, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
394, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
395, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
396, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
397, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
398, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
399, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
400, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
401, BEAM , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -21.01, 1, -21.01, 0, 0, 0,
0, , NO, 0, 0, NO
; End of data for load case [2차 고정하중]
-----
*SFUNCTION ; Spectrum Function
; FUNC=NAME, ITYPE, IMETHOD,
SCALE/MAX, GRAV, DRATIO, DESC, RMF
; line 1
; SPEC_CODE, [CODE_DATA]
; line 2
; PERIOD1, VALUE1, PERIOD2, VALUE2,
... ; from line 3
:[CODE_DATA] : NSC, SFI, SC, EQ, TG
; CH2001
:[CODE_DATA] : SFI, SC, EQ, TG
; CHSH2003
:[CODE_DATA] : DIV, SC, SFI, EQ, TG, G
; GB50111_2006
:[CODE_DATA] : BT, ZM, ST, SI, SC, TG,
Cl, CS, CD, EPA, SMAX, PERIOD : JTG/T
B02-01-2008
FUNC=KS-Bridge, 1, 0, 1, 9.806, 0.05,
KS-Bridge : Soil = 1.20 Area = 0.110 I =
1.400 R = 1.000, 1.000000
KS_BRG
0.000000, 0.385,
0.100000, 0.385
0.200000, 0.385,
0.300000, 0.385
0.400000, 0.385,
0.437153, 0.385
0.500000, 0.35202205728,
0.600000, 0.3117327131
0.700000, 0.28128798775,
0.800000, 0.25732968494
0.900000, 0.23789658437,
1.000000, 0.22176
1.100000, 0.20810767128,
1.200000, 0.19637930358
1.300000, 0.18617483519,
1.400000, 0.17720032843
1.500000, 0.16923455362,
1.600000, 0.16210754341
1.700000, 0.15568637214,
1.800000, 0.14986545717
1.900000, 0.14455978012,
2.000000, 0.13970004601
2.100000, 0.13522915982,
2.200000, 0.13109961784
2.300000, 0.12727154677,
2.400000, 0.12371120918
2.500000, 0.12038985013,
2.600000, 0.11728279691
2.700000, 0.11436874886,
2.800000, 0.11162921192
2.900000, 0.10904804424,
3.000000, 0.10661108824
3.100000, 0.10430587013,
3.200000, 0.10212135314
3.300000, 0.10004773316,
3.400000, 0.098076268722
3.500000, 0.096199138629,
3.600000, 0.094409322071
3.700000, 0.092700497213,

```

3.800000,	0.091066954968	bMODE	: line 2	145, 3, 0.234, NO, 0,	144, 3,
3.900000,	0.089503525352,	; FUNC1, FUNC2, FUNC3, ...		0.234, NO, 0,	177, 3, 0.234, NO, 0
4.000000,	0.088005514321		: line 3	182, 3, 0.234, NO, 0,	187, 3,
4.100000,	0.084484702539,	; bUSE1, dFACTOR1, bUSE2,		0.234, NO, 0,	146, 3, 0.234, NO, 0
4.200000,	0.08181334844	dFACTOR2, ..., bUSEn, dFACTORn	:	147, 3, 0.234, NO, 0,	148, 3,
4.300000,	0.079286384484,	line 4 (bMODE=YES)		0.234, NO, 0,	212, 3, 0.234, NO, 0
4.400000,	0.076892914002	; bCDR, [DR-DC]		213, 3, 0.234, NO, 0,	215, 3,
4.500000,	0.074623085679,	; line 5		0.234, NO, 0,	214, 3, 0.234, NO, 0
4.600000,	0.072467972808	(bDAMP=YES)		247, 3, 0.234, NO, 0,	252, 3,
4.700000,	0.070419468744,	; [DR-DC] : IMDTYPE, DALL, iMODE1,		0.234, NO, 0,	257, 3, 0.234, NO, 0
4.800000,	0.068470196111	DAMPING1, iMODE2, DAMPING2, ...	:	216, 3, 0.234, NO, 0,	217, 3,
4.900000,	0.066613427703,	IMDTYPE=1		0.234, NO, 0,	218, 3, 0.234, NO, 0
5.000000,	0.064843017363	; : IMDTYPE, iCOEF, bMASSP,		459, 3, 0.234, NO, 0,	282, 3,
5.100000,	0.063153339425,	MASSC, bSTIFFP, STIFFC	:	0.234, NO, 0,	283, 3, 0.234, NO, 0
5.200000,	0.061539235506	IMDTYPE=2, iCOEF=1		285, 3, 0.234, NO, 0,	284, 3,
5.300000,	0.05999596763,	; : IMDTYPE, iCOEF, iCALC,		0.234, NO, 0,	317, 3, 0.234, NO, 0
5.400000,	0.058519176842	bMASSP, FP1, DR1, bSTIFFP, FP2, DR2	:	322, 3, 0.234, NO, 0,	327, 3,
5.500000,	0.057104846562,	IMDTYPE=2, iCOEF=2		0.234, NO, 0,	286, 3, 0.234, NO, 0
5.600000,	0.055749270082	NAME=X-dir, XY, 0, 1, 1, NO, NO, LOG,		287, 3, 0.234, NO, 0,	288, 3,
5.700000,	0.054449021654,	SRSS, NO, 0, YES		0.234, NO, 0,	464, 3, 0.234, NO, 0
5.800000,	0.053200930731	KS-Bridge		352, 3, 0.234, NO, 0,	353, 3,
5.900000,	0.052002058968,	YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	355, 3, 0.234, NO, 0
6.000000,	0.050849679633	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		354, 3, 0.234, NO, 0,	387, 3,
6.100000,	0.049741259164,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	392, 3, 0.234, NO, 0
6.200000,	0.048674440592	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		397, 3, 0.234, NO, 0,	356, 3,
6.300000,	0.047647028634,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	357, 3, 0.234, NO, 0
6.400000,	0.046656976256	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		358, 3, 0.234, NO, 0	
6.500000,	0.045702372536,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	NAME=LANE2, LANE, , 0, 0, FORWARD,		
6.600000,	0.044781431699	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,	3, 1.8		
6.700000,	0.043892483175,	1,YES, 1,YES, 1,YES, 1		358, 3, 0.234, YES, 0,	357, 3,
6.800000,	0.043033962591	NAME=Y-dir, XY, 90, 1, 1, NO, NO, LOG,		0.234, NO, 0,	356, 3, 0.234, NO, 0
6.900000,	0.042204403576,	SRSS, NO, 0, YES		397, 3, 0.234, NO, 0,	392, 3,
7.000000,	0.041402430319	KS-Bridge		0.234, NO, 0,	387, 3, 0.234, NO, 0
7.100000,	0.040626750779,	YES, 1,YES, 1,YES, 1,YES, 1,YES,		354, 3, 0.234, NO, 0,	355, 3,
7.200000,	0.039876150493	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	353, 3, 0.234, NO, 0
7.300000,	0.039149486926,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		352, 3, 0.234, NO, 0,	464, 3,
7.400000,	0.038445684293	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	288, 3, 0.234, NO, 0
7.500000,	0.037763728828,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		287, 3, 0.234, NO, 0,	286, 3,
7.600000,	0.03710266444	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	327, 3, 0.234, NO, 0
7.700000,	0.036461588724,	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		322, 3, 0.234, NO, 0,	317, 3,
7.800000,	0.035839649302	1,YES, 1,YES, 1,YES, 1,YES, 1,YES,		0.234, NO, 0,	284, 3, 0.234, NO, 0
7.900000,	0.035236040451,	1,YES, 1,YES, 1,YES, 1		285, 3, 0.234, NO, 0,	283, 3,
8.000000,	0.03465	*MVLDCODE : Moving Load Code		0.234, NO, 0,	282, 3, 0.234, NO, 0
8.100000,	0.034080806468,	: CODE=CODE		459, 3, 0.234, NO, 0,	218, 3,
8.200000,	0.033527776421	CODE=KOREA		0.234, NO, 0,	217, 3, 0.234, NO, 0
8.300000,	0.032990262037,	*LINELANE : Traffic Line Lanes		216, 3, 0.234, NO, 0,	257, 3,
8.400000,	0.032467648845	: NAME=NAME, LDIST, GROUP, SKEWS,		0.234, NO, 0,	252, 3, 0.234, NO, 0
8.500000,	0.031959353636,	SKEWE, MOVING, LW, WS : line 1		247, 3, 0.234, NO, 0,	214, 3,
8.600000,	0.031464822534	: iELEM1, ECC1, FACT1, bSPAN1,		0.234, NO, 0,	215, 3, 0.234, NO, 0
8.700000,	0.030983529195,	ECCVL... : from line 2		213, 3, 0.234, NO, 0,	212, 3,
8.800000,	0.030514973144	NAME=LANE1, LANE, , 0, 0, FORWARD,		0.234, NO, 0,	148, 3, 0.234, NO, 0
8.900000,	0.030058678228,	3, 1.8		147, 3, 0.234, NO, 0,	146, 3,
9.000000,	0.029614191177	1, 3, 0.234, YES, 0, 2, 3,		0.234, NO, 0,	187, 3, 0.234, NO, 0
9.100000,	0.029181080266,	0.234, NO, 0, 5, 3, 0.234, NO, 0		182, 3, 0.234, NO, 0,	177, 3,
9.200000,	0.028758934067	4, 3, 0.234, NO, 0, 37, 3,		0.234, NO, 0,	144, 3, 0.234, NO, 0
9.300000,	0.028347360289,	0.234, NO, 0, 42, 3, 0.234, NO, 0		145, 3, 0.234, NO, 0,	143, 3,
9.400000,	0.027945984691	47, 3, 0.234, NO, 0, 6, 3,		0.234, NO, 0,	142, 3, 0.234, NO, 0
9.500000,	0.027554450074,	0.234, NO, 0, 7, 3, 0.234, NO, 0		454, 3, 0.234, NO, 0,	78, 3,
9.600000,	0.027172415334	8, 3, 0.234, NO, 0, 449, 3,		0.234, NO, 0,	77, 3, 0.234, NO, 0
9.700000,	0.026799554579,	0.234, NO, 0, 72, 3, 0.234, NO, 0		76, 3, 0.234, NO, 0,	117, 3,
9.800000,	0.026435556303	73, 3, 0.234, NO, 0, 75, 3,		0.234, NO, 0,	112, 3, 0.234, NO, 0
9.900000,	0.02608012261,	0.234, NO, 0, 74, 3, 0.234, NO, 0		107, 3, 0.234, NO, 0,	74, 3,
10.000000,	0.025732968494	107, 3, 0.234, NO, 0, 112, 3,		0.234, NO, 0,	75, 3, 0.234, NO, 0
*SPLDCASE : Spectrum Load Cases		0.234, NO, 0, 117, 3, 0.234, NO, 0		73, 3, 0.234, NO, 0,	72, 3,
: TYPE, bADDSIGN, iSIGNTYPE		76, 3, 0.234, NO, 0, 77, 3,		0.234, NO, 0,	449, 3, 0.234, NO, 0
: NAME=NAME, DIR, ANGLE, SCALE, PMFT,		0.234, NO, 0, 78, 3, 0.234, NO, 0		8, 3, 0.234, NO, 0,	7, 3,
bDAMP, bECC, INTERP, DESC, : line 1		454, 3, 0.234, NO, 0, 142, 3,		0.234, NO, 0,	6, 3, 0.234, NO, 0
: COMTYPE, bADDSIGN, iSIGNTYPE,		0.234, NO, 0, 143, 3, 0.234, NO, 0		47, 3, 0.234, NO, 0,	42, 3,

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0.234, NO, 0, 37, 3, 0.234, NO, 0 ; NAME=NAME, 1, TYPE=NAME, CODE, bPHI2, PHI2 ;
4, 3, 0.234, NO, 0, 5, 3, UNITNUM ; user(Type 5)
0.234, NO, 0, 2, 3, 0.234, NO, 0 standard ; [VEHICLE1]
1, 3, 0.234, NO, 0 ; NAME=nLane, FACTOR1, FACTOR2, ; user(Type
*VEHICLE : Vehicles FACTOR3, FACTOR4 5): line 2
; if Moving Load Code is China ; HA, HA & HB, HA & HB(Auto) ; [VEHICLE2]
; NAME=NAME, 1, TYPE=NAME, CODE ; NAME=NAME, 2, ISTYPE, W1, W2, W3, L, ; user(Type
standard ; Pa, Pb, D1, D2, d, UNITNUM ; 5): line 3
; user(BS 5400) ; [VEHICLE3]
; NAME=NAME, 2, LTYPE, [TRUCK/LANE] or ; NAME=NAME, 2, ISTYPE, [BD37/01-HA], ; user(Type
[TRAIN/SUBWAY] or [CROWD] ; [BS-DATA-LF] ; 5): line 4
user: line 1 user(HA) ; [AF7] : TF1, TF2, TF3, UF1, UF2, UF3,
; LOAD1, DIST1, LOAD2, DIST2, ... ; NAME=NAME, 2, ISTYPE, [BS-DATA-HB] UF4
; user: from ; adjustment factor
line 2 user(HB) ; [LOAD7] : TL1, TL2, TL3, UL1, UL2, UL3,
; [TRUCK/LANE] : 1, P, Qm, Qq ; NAME=NAME, 2, ISTYPE, [BD37/01-HA2], UL4
; truck(JTG) ; [BS-DATA-HB2], [BS-DATA-LF] ; tandem/udl loads
; [TRUCK/LANE] : 2, P, Qm, Qq user(HA&HB) ; [LOADCASE] : bUSE, N, bDF, bUI, PHI,
; lane load1 ; NAME=NAME, 2, ISTYPE, [BD37/01-HA], P1, L1, P2, L2, ... ; load
; [TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2 [BD37/01-HB], [BS-DATA-LF] ; case
; lane load2 user(HA&HB(AUTO)) ; [VEHICLE] : bUSE, N, P1, L1, P2, L2, ...
; [TRUCK/LANE] : 4, dW, dD ; NAME=NAME, 2, ISTYPE, W, L ; vehicle
; crawler ; if Moving Load Code is RUSSIA
type user(Pedestrian) ; NAME=NAME, 1, ITYPE, K, nDYNAFAC,
; [TRUCK/LANE] : 5 ; NAME=NAME, 2, ISTYPE, V, AN, MINS, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; GC type ; MAXS, P1, D1, P2, D2, ... ; standard (SK)
load ; user(Special Vehicle) ; NAME=NAME, 1, ITYPE, K, nDYNAFAC,
; [TRAIN/SUBWAY] : ITYPE, W1, D1, W2, D2 ; [BS-DATA-HA] : W1, W2, W3, EXP, dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; EXP2, L1, L2, Pa ; [BS-DATA-HA2] : W1, W2, W3, EXP, ; standard (SK FATIGUE)
train-type1,3 ; EXP2, L1, L2 ; [BS-DATA-HB] : Pb, D1, D2, d, ; NAME=NAME, 1, ITYPE, K, nDYNAFAC,
; [TRAIN/SUBWAY] : ITYPE, DD, FD, BD, EXP2, L1, L2 ; dDYNAFAC, dDYNAFAC_UDL
MAINCOUNT ; [BS-DATA-HB2] : Pb, D1, D2, d, dd,
train-type2 ; UNITNUM ; bFATI, nLOADFAC,
; [TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, ; [BS-DATA-LF] : nLT, LF1, LF2, LF3, LF4 dLOADFAC, dLOADFAC_UDL, s1, s1_UDL
D3, P4, dD, Po, n, IFR ; subway ; standard (AK)
; [CROWD] : 1, dW1 ; if Moving Load Code is EUROCODE ; NAME=NAME, 1, ITYPE, K, nDYNAFAC,
; ; NAME=NAME, 1, ITYPE, TYPE=NAME, PSY1, dDYNAFAC, nLOADFAC, dLOADFAC,
crowd-type1 PSY2, PHI, [AF7] ;
; [CROWD] : 2, dW1, dL1, dW2, dL2, ; standard (LM1, FLM1) ; bTWOVEHI,
WIDTH ; ; TWOVEHI_FACT, b2NDREDUC,
crowd-type2 ; NAME=NAME, 1, ITYPE, TYPE=NAME, bDF, 2NDREDUC_FACT ; standard (N14)
; if Moving Load Type is India ; bU, PHI, PSY, ADJ, IN ; NAME=NAME, 1, ITYPE, K, nDYNAFAC,
; NAME=NAME, 1, TYPE=NAME, CODE standard (others) dDYNAFAC, nLOADFAC, dLOADFAC,
; ; NAME=NAME, 2, 1, [AF7] ; bTWOVEHI,
standard ; user(Type) ; TWOVEHI_FACT, b2NDREDUC,
; NAME=NAME, 2, bWTB, P, D, Pb, Db, 1) ; 2NDREDUC_FACT ; standard (N11)
dD1, dD2, NDIST ; [LOAD7], D, PHI, TPSY, UPSY ; NAME=NAME, 1, ITYPE, nDYNAFAC,
user: line 1 ; user(Type) dDYNAFAC, dEMPTYCAR
; NAME=NAME, 2, bWTB, dD1, dD2, NDIST 1): line 2
; user: ; NAME=NAME, 2, 2, ALP, TPSY, W, BET,
line 1 LPSY, P1, D1, P2, D2, ... ;
; LOAD1, DIST1, LOAD2, DIST2, ... user(Type 2) ;
; user: from ; NAME=NAME, 2, 3
line 2 ; user(Type
; if Moving Load Code is CANADA 3)
; NAME=NAME, 1, TYPE=NAME, DLA, CODE, ; [LOADCASE1]
[DYNA] ; user(Type
standard ; 3): line 2
; NAME=NAME, 2, bTRAIN, W(W1), PL(D1), ; [LOADCASE2]
PLM(W2), PLV(D2), NDIST, [DYNA] ; user(Type
user: line 1 3): line 3
; LOAD1, DIST1, LOAD2, DIST2, ... ; [LOADCASE3]
; user: from ; user(Type
line 2 3): line 4
; [DYNA] : nDYNA, FACT1AXLE, FACT2AXLE, ; NAME=NAME, 2, 4, WS, V, AN, MINS,
FACT3AXLE ; MAXS, DYF, UI, F, P1, D1, P2, D2, ... ;
Dynamic Load Allowance user(Type 4)
; if Moving Load Code is BS ; NAME=NAME, 2, 5, INT, bPHI1, PHI1,

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; 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,
d L O A D F A C ,
; 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

; bTWOVEHL,
TWOVEHL_FACT, b2NDREDUC,
2NDREDUC_FACT ; user (Type 4)
; NAME=NAME, 2, ITYPE, nDYNAFAC,
dDYNAFAC, nLOADFAC, dLOADFAC

; bTWOVEHL,
TWOVEHL_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-LSD12
; 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,
I M P - F A C T O R
; 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
*MVLDCCASE ; Moving Load Cases
; NAME=NAME, bLCPV, SCALE1, SCALE2,
SCALE3, SCALE4, SCALE5, SCALE6, COMB,
DESC, LCOM ; 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=MV, NO, 1, 1, 0.9, 0.75, 0.75,
0.75, INDEPENDENT, , 0
1, 1, 1, 1, 1, 0.5, 0.25
VL, DB-24, 1, 1, 2, LANE1, LANE2
*LOADCOMB ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, ITYPE,
DESC, iSERV-TYPE, nLCOMTYPE ; line 1
; ANAL1, LCNAME1, FACT1, ...
; from line 2
NAME=고정하중, GEN, ACTIVE, 0, 0, , 0,
0
ST, 고정하중, 1, ST, 2차 고정하중, 1
NAME=X-dir, GEN, ACTIVE, 0, 0, , 0, 0
RS, X-dir, 1
NAME=Y-dir, GEN, ACTIVE, 0, 0, , 0, 0
RS, Y-dir, 1
NAME=com1, GEN, ACTIVE, 0, 0, , 0, 0
RS, X-dir, 1, RS, Y-dir, 0.3
NAME=com2, GEN, ACTIVE, 0, 0, , 0, 0
RS, X-dir, 0.3, RS, Y-dir, 1
NAME=최대반력, GEN, ACTIVE, 0, 0, , 0,
0
CB, 고정하중, 1, MV, MV, 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, 고정하중, 210, 210, 210, 128, 192, 0,
0, 128, 255
RS, X-dir, 192, 72, 0, 163, 160, 255, 148,
87, 255
RS, Y-dir, 163, 160, 255, 255, 87, 87, 255,
87, 128
CB, 고정하중, 255, 128, 0, 163, 160, 255,
210, 210, 210
ST, 2차 고정하중, 192, 0, 192, 192, 0, 192,
192, 128, 0
CB, X-dir, 0, 192, 192, 160, 255, 255, 0,
128, 192
CB, Y-dir, 255, 0, 192, 0, 128, 128, 0,
192, 192
CB, com1, 160, 255, 255, 192, 128, 0,
146, 0, 255
CB, com2, 192, 0, 192, 0, 128, 192, 78, 0,
255
MV, MV, 255, 255, 255, 128, 192, 0, 128,
192, 0
CB, 최대반력, 0, 128, 192, 255, 0, 192, 0,
192, 192
*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
*EIGEN-CTRL ; Eigenvalue Analysis
Control
; TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX,
FRMIN, FRMAX, bSTRUM ; TYPE=EIGEN
; TYPE, bINCNL, iGNUM
; TYPE=RITZ(line 1)
; KIND1, CASE1/GROUND1, iNOG1, ...
; TYPE=RITZ(from
line2)
RITZ, NO, 0
GROUND, ACCX, 25, GROUND, ACCY, 25
*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

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; [R-DATA]: RBCODE, RBMAIN, RBSUB, 0, 0
FY(R), FYS SECT=6, YES
1, CONC , C40 , 1, 0, 0
KSCE-LSD12(RC), ,C40 *ENDDATA
, NO, 1, , , 0, 0, 28000, NO, 0, 0
2, CONC , C21 , 1,
KSCE-LSD12(RC), ,C21
, NO, 1, , , 0, 0, 14700, NO, 0, 0
4, CONC , C27 , 1,
KSCE-LSD12(RC), ,C27
, NO, 1, , , 0, 0, 18900, NO, 0, 0
*SECTION MANAGER-GROUP & PART ;
Section Manager - Group & Part
; SECT = NO, bSAMEJ
; line

1
; GRPDISIZE, GRPDJSIZE, PARTISIZE,
PARTJSIZE ;
line 2
;
..... ;
; LOOP UTIL (GRPDISIZE,
G R P D J S I Z E )
;
; GROUPID, GROUPNAME,
G R O U P T Y P E
; line n
;
..... ;
; LOOP UTIL (PARTISIZE, PARTJSIZE)
;
; PARTTYPE, GROUPID, PARTNAME,
PARTSHAPE, bSTIFFENER
; line n
; LINESIZE, LINEINDEX[i].....
; line n
;
..... ;
; SECT=3, YES
0, 0, 0, 0
SECT=6, YES
0, 0, 0, 0
*SECTION MANAGER-STIFFENER ;
Section Manager - Stiffener
; SECT = NO, bSAMEJ
; line

1
; STFNSIZE, STFNJSIZE
; line 2
;
..... ;
; LOOP UTIL (STFNSIZE, STFNJSIZE)
;
; TYPE, Z, STANDREF, POSLINE,
STANDREFL, NUM, CTC
; line n
; STIFFTYPE, dSIZE(0 ~ 20)
; line n
; LINESIZE, LINEINDEX[i].....
; line n
;
..... ;
; SECT=3, YES

```