

;	-----	33, 19, 2.275, 0
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:	MIDAS/Civil Text(MCT) File.	35, 16.3, 2.275, 0
:	Date : 2018/2/5	36, 14.2, 2.275, 0
;	-----	37, 0, 3.925, 0
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*VERSION		39, 2.7, 3.925, 0
8.7.0		40, 4.8, 3.925, 0
*UNIT	: Unit System	41, 9.5, 3.925, 0
:	FORCE, LENGTH, HEAT, TEMPER	42, 19, 3.925, 0
KN	, M, KCAL, C	43, 18.8, 3.925, 0
*PROJINFO	: Project Information	44, 16.3, 3.925, 0
USER=jm		45, 14.2, 3.925, 0
ADDRESS=.		46, 0, 4.8, 0
*REBAR-MATL-CODE	: Rebar Material Code	47, 0.2, 4.8, 0
:	CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB	48, 2.7, 4.8, 0
KS01-Civil(RC), SD300, KS01-Civil(RC), SD300		49, 4.8, 4.8, 0
*NODE	: Nodes	50, 9.5, 4.8, 0
:	iNO, X, Y, Z	51, 19, 4.8, 0
1, 0, 0, 0		52, 18.8, 4.8, 0
2, 0.2, 0, 0		53, 16.3, 4.8, 0
3, 2.7, 0, 0		54, 14.2, 4.8, 0
4, 4.8, 0, 0		55, 0, 3.425, 0
5, 9.5, 0, 0		56, 0.2, 3.425, 0
6, 19, 0, 0		57, 2.7, 3.425, 0
7, 18.8, 0, 0		58, 4.8, 3.425, 0
8, 16.3, 0, 0		59, 9.5, 3.425, 0
9, 14.2, 0, 0		60, 19, 3.425, 0
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11, 0.2, 0.625, 0		62, 16.3, 3.425, 0
12, 2.7, 0.625, 0		63, 14.2, 3.425, 0
13, 4.8, 0.625, 0		64, 0, 0.625, -1.7
14, 9.5, 0.625, 0		65, 19, 0.625, -1.7
15, 19, 0.625, 0		66, 0, 2.275, -1.7
16, 18.8, 0.625, 0		67, 19, 2.275, -1.7
17, 16.3, 0.625, 0		68, 0, 3.925, -1.7
18, 14.2, 0.625, 0		69, 19, 3.925, -1.7
19, 0, 1.975, 0		70, 1.0333333333333333, 4.8, 0
20, 0.2, 1.975, 0		71, 1.0333333333333333, 3.925, 0
21, 2.7, 1.975, 0		72, 1.8666666666666667, 4.8, 0
22, 4.8, 1.975, 0		73, 1.8666666666666667, 3.925, 0
23, 9.5, 1.975, 0		74, 1.0333333333333333, 3.425, 0
24, 19, 1.975, 0		75, 1.8666666666666667, 3.425, 0
25, 18.8, 1.975, 0		76, 1.0333333333333333, 2.275, 0
26, 16.3, 1.975, 0		77, 1.8666666666666667, 2.275, 0
27, 14.2, 1.975, 0		78, 1.0333333333333333, 1.975, 0
28, 0, 2.275, 0		79, 1.8666666666666667, 1.975, 0
29, 0.2, 2.275, 0		80, 1.0333333333333333, 0.625, 0
30, 2.7, 2.275, 0		81, 1.8666666666666667, 0.625, 0
31, 4.8, 2.275, 0		82, 1.0333333333333333, 0, 0
32, 9.5, 2.275, 0		83, 1.8666666666666667, 0, 0

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 99, 3.75, 3.925, 0
 100, 3.75, 3.425, 0
 101, 3.75, 2.275, 0
 102, 3.75, 1.975, 0
 103, 3.75, 0.625, 0
 104, 3.75, 0, 0
 105, 15.25, 4.8, 0
 106, 15.25, 3.925, 0
 107, 15.25, 3.425, 0
 108, 15.25, 2.275, 0
 109, 15.25, 1.975, 0
 110, 15.25, 0.625, 0
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 113, 5.74, 3.925, 0
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 115, 6.68, 3.925, 0
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 117, 7.62, 3.925, 0
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 119, 8.56, 3.925, 0
 120, 5.74, 3.425, 0
 121, 6.68, 3.425, 0
 122, 7.62, 3.425, 0
 123, 8.56, 3.425, 0
 124, 5.74, 2.275, 0
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 131, 8.56, 1.975, 0
 132, 5.74, 0.625, 0
 133, 6.68, 0.625, 0
 134, 7.62, 0.625, 0

135, 8.56, 0.625, 0
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 141, 10.44, 3.925, 0
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 143, 11.38, 3.925, 0
 144, 12.32, 4.8, 0
 145, 12.32, 3.925, 0
 146, 13.26, 4.8, 0
 147, 13.26, 3.925, 0
 148, 10.44, 3.425, 0
 149, 11.38, 3.425, 0
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 163, 13.26, 0.625, 0
 164, 10.44, 0, 0
 165, 11.38, 0, 0
 166, 12.32, 0, 0
 167, 13.26, 0, 0
 *ELEMENT : Elements
 : iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB,
 EXVAL, iOPT(EXVAL2) : Frame Element
 : iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB,
 EXVAL, EXVAL2, bLMT : Comp/Tens Truss
 : iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB,
 iWID , LCAXIS : Planar Element
 : iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5,
 iN6, iN7, iN8 : Solid Element
 1, BEAM , 1, 3, 10, 11, 0,
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 2, BEAM , 1, 2, 11, 80, 0,
 0
 3, BEAM , 1, 1, 12, 103, 0,
 0
 4, BEAM , 1, 1, 13, 132, 0,
 0
 5, BEAM , 1, 1, 14, 160, 0,

0	6, BEAM	1,	1,	18,	110,	0,	31, BEAM	2,	4,	14,	23,	0,
0							0					
0	7, BEAM	1,	2,	17,	94,	0,	32, BEAM	2,	4,	23,	32,	0,
0							0					
0	8, BEAM	1,	3,	16,	15,	0,	33, BEAM	2,	4,	32,	41,	0,
0							0					
0	9, BEAM	1,	3,	28,	29,	0,	34, BEAM	2,	4,	18,	27,	0,
0							0					
0	10, BEAM	1,	2,	29,	76,	0,	35, BEAM	2,	4,	27,	36,	0,
0							0					
0	11, BEAM	1,	1,	30,	101,	0,	36, BEAM	2,	4,	36,	45,	0,
0							0					
0	12, BEAM	1,	1,	31,	124,	0,	37, BEAM	2,	4,	15,	24,	0,
0							0					
0	13, BEAM	1,	1,	32,	152,	0,	38, BEAM	2,	4,	24,	33,	0,
0							0					
0	14, BEAM	1,	1,	36,	108,	0,	39, BEAM	2,	4,	33,	42,	0,
0							0					
0	15, BEAM	1,	2,	35,	90,	0,	48, PLATE	2,	1,	46,	37,	38,
0							47, 1, 0					
0	16, BEAM	1,	3,	34,	33,	0,	49, PLATE	2,	1,	37,	55,	56,
0							38, 1, 0					
0	17, BEAM	1,	3,	37,	38,	0,	50, PLATE	2,	1,	55,	28,	29,
0							56, 1, 0					
0	18, BEAM	1,	2,	38,	71,	0,	51, PLATE	2,	1,	28,	19,	20,
0							29, 1, 0					
0	19, BEAM	1,	1,	39,	99,	0,	52, PLATE	2,	1,	19,	10,	11,
0							20, 1, 0					
0	20, BEAM	1,	1,	40,	113,	0,	53, PLATE	2,	1,	10,	1,	2,
0							11, 1, 0					
0	21, BEAM	1,	1,	41,	141,	0,	54, PLATE	2,	1,	47,	38,	71,
0							70, 1, 0					
0	22, BEAM	1,	1,	45,	106,	0,	55, PLATE	2,	1,	38,	56,	74,
0							71, 1, 0					
0	23, BEAM	1,	2,	44,	85,	0,	56, PLATE	2,	1,	56,	29,	76,
0							74, 1, 0					
0	24, BEAM	1,	3,	43,	42,	0,	57, PLATE	2,	1,	29,	20,	78,
0							76, 1, 0					
0	25, BEAM	2,	4,	10,	19,	0,	58, PLATE	2,	1,	20,	11,	80,
0							78, 1, 0					
0	26, BEAM	2,	4,	19,	28,	0,	59, PLATE	2,	1,	11,	2,	82,
0							80, 1, 0					
0	27, BEAM	2,	4,	28,	37,	0,	60, PLATE	2,	1,	48,	39,	99,
0							98, 1, 0					
0	28, BEAM	2,	4,	13,	22,	0,	61, PLATE	2,	1,	39,	57,	100,
0							99, 1, 0					
0	29, BEAM	2,	4,	22,	31,	0,	62, PLATE	2,	1,	57,	30,	101,
0							100, 1, 0					
0	30, BEAM	2,	4,	31,	40,	0,	63, PLATE	2,	1,	30,	21,	102,
0							101, 1, 0					
0							64, PLATE	2,	1,	21,	12,	103,

102,	1,	0						
65, PLATE ,	2,	1,	12,	3,	104,			
103,	1,	0						
66, PLATE ,	2,	1,	49,	40,	113,			
112,	1,	0						
67, PLATE ,	2,	1,	40,	58,	120,			
113,	1,	0						
68, PLATE ,	2,	1,	58,	31,	124,			
120,	1,	0						
69, PLATE ,	2,	1,	31,	22,	128,			
124,	1,	0						
70, PLATE ,	2,	1,	22,	13,	132,			
128,	1,	0						
71, PLATE ,	2,	1,	13,	4,	136,			
132,	1,	0						
72, PLATE ,	2,	1,	50,	41,	141,			
140,	1,	0						
73, PLATE ,	2,	1,	41,	59,	148,			
141,	1,	0						
74, PLATE ,	2,	1,	59,	32,	152,			
148,	1,	0						
75, PLATE ,	2,	1,	32,	23,	156,			
152,	1,	0						
76, PLATE ,	2,	1,	23,	14,	160,			
156,	1,	0						
77, PLATE ,	2,	1,	14,	5,	164,			
160,	1,	0						
78, PLATE ,	2,	1,	54,	45,	106,			
105,	1,	0						
79, PLATE ,	2,	1,	45,	63,	107,			
106,	1,	0						
80, PLATE ,	2,	1,	63,	36,	108,			
107,	1,	0						
81, PLATE ,	2,	1,	36,	27,	109,			
108,	1,	0						
82, PLATE ,	2,	1,	27,	18,	110,			
109,	1,	0						
83, PLATE ,	2,	1,	18,	9,	111,			
110,	1,	0						
84, PLATE ,	2,	1,	53,	44,	85,			
84,	1,	0						
85, PLATE ,	2,	1,	44,	62,	88,			
85,	1,	0						
86, PLATE ,	2,	1,	62,	35,	90,			
88,	1,	0						
87, PLATE ,	2,	1,	35,	26,	92,			
90,	1,	0						
88, PLATE ,	2,	1,	26,	17,	94,			
92,	1,	0						
89, PLATE ,	2,	1,	17,	8,	96,			
94,	1,	0						

90, PLATE ,	2,	1,	52,	43,	42,			
51,	1,	0						
91, PLATE ,	2,	1,	43,	61,	60,			
42,	1,	0						
92, PLATE ,	2,	1,	61,	34,	33,			
60,	1,	0						
93, PLATE ,	2,	1,	34,	25,	24,			
33,	1,	0						
94, PLATE ,	2,	1,	25,	16,	15,			
24,	1,	0						
95, PLATE ,	2,	1,	16,	7,	6,			
15,	1,	0						
96, BEAM ,	1,	2,	71,	73,	0,			
0								
97, BEAM ,	1,	2,	73,	39,	0,			
0								
98, PLATE ,	2,	1,	70,	71,	73,			
72,	1,	0						
99, PLATE ,	2,	1,	72,	73,	39,			
48,	1,	0						
100, PLATE ,	2,	1,	71,	74,	75,			
73,	1,	0						
101, PLATE ,	2,	1,	73,	75,	57,			
39,	1,	0						
102, BEAM ,	1,	2,	76,	77,	0,			
0								
103, BEAM ,	1,	2,	77,	30,	0,			
0								
104, PLATE ,	2,	1,	74,	76,	77,			
75,	1,	0						
105, PLATE ,	2,	1,	75,	77,	30,			
57,	1,	0						
108, PLATE ,	2,	1,	76,	78,	79,			
77,	1,	0						
109, PLATE ,	2,	1,	77,	79,	21,			
30,	1,	0						
110, BEAM ,	1,	2,	80,	81,	0,			
0								
111, BEAM ,	1,	2,	81,	12,	0,			
0								
112, PLATE ,	2,	1,	78,	80,	81,			
79,	1,	0						
113, PLATE ,	2,	1,	79,	81,	12,			
21,	1,	0						
114, PLATE ,	2,	1,	80,	82,	83,			
81,	1,	0						
115, PLATE ,	2,	1,	81,	83,	3,			
12,	1,	0						
116, BEAM ,	1,	2,	85,	87,	0,			
0								
117, BEAM ,	1,	2,	87,	43,	0,			

0						146, BEAM	, 1,	1,	106,	44,	0,
118, PLATE	, 2,	1,	84,	85,	87,	0					
86, 1,	0					147, PLATE	, 2,	1,	105,	106,	44,
119, PLATE	, 2,	1,	86,	87,	43,	53, 1,	0				
52, 1,	0					148, PLATE	, 2,	1,	106,	107,	62,
120, PLATE	, 2,	1,	85,	88,	89,	44, 1,	0				
87, 1,	0					149, BEAM	, 1,	1,	108,	35,	0,
121, PLATE	, 2,	1,	87,	89,	61,	0					
43, 1,	0					150, PLATE	, 2,	1,	107,	108,	35,
122, BEAM	, 1,	2,	90,	91,	0,	62, 1,	0				
0						152, PLATE	, 2,	1,	108,	109,	26,
123, BEAM	, 1,	2,	91,	34,	0,	35, 1,	0				
0						153, BEAM	, 1,	1,	110,	17,	0,
124, PLATE	, 2,	1,	88,	90,	91,	0					
89, 1,	0					154, PLATE	, 2,	1,	109,	110,	17,
125, PLATE	, 2,	1,	89,	91,	34,	26, 1,	0				
61, 1,	0					155, PLATE	, 2,	1,	110,	111,	8,
128, PLATE	, 2,	1,	90,	92,	93,	17, 1,	0				
91, 1,	0					156, BEAM	, 1,	1,	113,	115,	0,
129, PLATE	, 2,	1,	91,	93,	25,	0					
34, 1,	0					157, BEAM	, 1,	1,	115,	117,	0,
130, BEAM	, 1,	2,	94,	95,	0,	0					
0						158, BEAM	, 1,	1,	117,	119,	0,
131, BEAM	, 1,	2,	95,	16,	0,	0					
0						159, BEAM	, 1,	1,	119,	41,	0,
132, PLATE	, 2,	1,	92,	94,	95,	0					
93, 1,	0					160, PLATE	, 2,	1,	112,	113,	115,
133, PLATE	, 2,	1,	93,	95,	16,	114, 1,	0				
25, 1,	0					161, PLATE	, 2,	1,	114,	115,	117,
134, PLATE	, 2,	1,	94,	96,	97,	116, 1,	0				
95, 1,	0					162, PLATE	, 2,	1,	116,	117,	119,
135, PLATE	, 2,	1,	95,	97,	7,	118, 1,	0				
16, 1,	0					163, PLATE	, 2,	1,	118,	119,	41,
136, BEAM	, 1,	1,	99,	40,	0,	50, 1,	0				
0						164, PLATE	, 2,	1,	113,	120,	121,
137, PLATE	, 2,	1,	98,	99,	40,	115, 1,	0				
49, 1,	0					165, PLATE	, 2,	1,	115,	121,	122,
138, PLATE	, 2,	1,	99,	100,	58,	117, 1,	0				
40, 1,	0					166, PLATE	, 2,	1,	117,	122,	123,
139, BEAM	, 1,	1,	101,	31,	0,	119, 1,	0				
0						167, PLATE	, 2,	1,	119,	123,	59,
140, PLATE	, 2,	1,	100,	101,	31,	41, 1,	0				
58, 1,	0					168, BEAM	, 1,	1,	124,	125,	0,
142, PLATE	, 2,	1,	101,	102,	22,	0					
31, 1,	0					169, BEAM	, 1,	1,	125,	126,	0,
143, BEAM	, 1,	1,	103,	13,	0,	0					
0						170, BEAM	, 1,	1,	126,	127,	0,
144, PLATE	, 2,	1,	102,	103,	13,	0					
22, 1,	0					171, BEAM	, 1,	1,	127,	32,	0,
145, PLATE	, 2,	1,	103,	104,	4,	0					
13, 1,	0					172, PLATE	, 2,	1,	120,	124,	125,

121,	1,	0					202, PLATE ,	2,	1,	144,	145,	147,
173, PLATE ,	2,	1,	121,	125,	126,		146, 1, 0					
122,	1,	0					203, PLATE ,	2,	1,	146,	147,	45,
174, PLATE ,	2,	1,	122,	126,	127,		54, 1, 0					
123,	1,	0					204, PLATE ,	2,	1,	141,	148,	149,
175, PLATE ,	2,	1,	123,	127,	32,		143, 1, 0					
59,	1,	0					205, PLATE ,	2,	1,	143,	149,	150,
180, PLATE ,	2,	1,	124,	128,	129,		145, 1, 0					
125,	1,	0					206, PLATE ,	2,	1,	145,	150,	151,
181, PLATE ,	2,	1,	125,	129,	130,		147, 1, 0					
126,	1,	0					207, PLATE ,	2,	1,	147,	151,	63,
182, PLATE ,	2,	1,	126,	130,	131,		45, 1, 0					
127,	1,	0					208, BEAM ,	1,	1,	152,	153,	0,
183, PLATE ,	2,	1,	127,	131,	23,		0					
32,	1,	0					209, BEAM ,	1,	1,	153,	154,	0,
184, BEAM ,	1,	1,	132,	133,	0,		0					
0							210, BEAM ,	1,	1,	154,	155,	0,
185, BEAM ,	1,	1,	133,	134,	0,		0					
0							211, BEAM ,	1,	1,	155,	36,	0,
186, BEAM ,	1,	1,	134,	135,	0,		0					
0							212, PLATE ,	2,	1,	148,	152,	153,
187, BEAM ,	1,	1,	135,	14,	0,		149, 1, 0					
0							213, PLATE ,	2,	1,	149,	153,	154,
188, PLATE ,	2,	1,	128,	132,	133,		150, 1, 0					
129,	1,	0					214, PLATE ,	2,	1,	150,	154,	155,
189, PLATE ,	2,	1,	129,	133,	134,		151, 1, 0					
130,	1,	0					215, PLATE ,	2,	1,	151,	155,	36,
190, PLATE ,	2,	1,	130,	134,	135,		63, 1, 0					
131,	1,	0					220, PLATE ,	2,	1,	152,	156,	157,
191, PLATE ,	2,	1,	131,	135,	14,		153, 1, 0					
23,	1,	0					221, PLATE ,	2,	1,	153,	157,	158,
192, PLATE ,	2,	1,	132,	136,	137,		154, 1, 0					
133,	1,	0					222, PLATE ,	2,	1,	154,	158,	159,
193, PLATE ,	2,	1,	133,	137,	138,		155, 1, 0					
134,	1,	0					223, PLATE ,	2,	1,	155,	159,	27,
194, PLATE ,	2,	1,	134,	138,	139,		36, 1, 0					
135,	1,	0					224, BEAM ,	1,	1,	160,	161,	0,
195, PLATE ,	2,	1,	135,	139,	5,		0					
14,	1,	0					225, BEAM ,	1,	1,	161,	162,	0,
196, BEAM ,	1,	1,	141,	143,	0,		0					
0							226, BEAM ,	1,	1,	162,	163,	0,
197, BEAM ,	1,	1,	143,	145,	0,		0					
0							227, BEAM ,	1,	1,	163,	18,	0,
198, BEAM ,	1,	1,	145,	147,	0,		0					
0							228, PLATE ,	2,	1,	156,	160,	161,
199, BEAM ,	1,	1,	147,	45,	0,		157, 1, 0					
0							229, PLATE ,	2,	1,	157,	161,	162,
200, PLATE ,	2,	1,	140,	141,	143,		158, 1, 0					

27,	1,	0					257, BEAM	,	1,	5,	52,	51,	0,
232, PLATE	,	2,	1,	160,	164,	165,	0						
161,	1,	0					*GROUP	:	Group				
233, PLATE	,	2,	1,	161,	165,	166,	:	NAME, NODE_LIST, ELEM_LIST, PLANE_TYPE					
162,	1,	0					⌈	,	,	,	0		
234, PLATE	,	2,	1,	162,	166,	167,	*MATERIAL	:	Material				
163,	1,	0					:	iMAT, TYPE, MNAME, SPHEAT, HEATCO,					
235, PLATE	,	2,	1,	163,	167,	9,	PLAST, TUNIT, bMASS, DAMPRATIO, [DATA1]						
18,	1,	0					:	STEEL, CONC, USER					
236, BEAM	,	1,	5,	46,	47,	0,	:	iMAT, TYPE, MNAME, SPHEAT, HEATCO,					
0							PLAST, TUNIT, bMASS, DAMPRATIO, [DATA2],						
237, BEAM	,	1,	5,	47,	70,	0,	[DATA2]	:	SRC				
0							:	[DATA1] :	1, DB, NAME, CODE, USEELAST,				
238, BEAM	,	1,	5,	70,	72,	0,	ELAST						
0							:	[DATA1] :	2, ELAST, POISN, THERMAL, DEN,				
239, BEAM	,	1,	5,	72,	48,	0,	MASS						
0							:	[DATA1] :	3, Ex, Ey, Ez, Tx, Ty, Tz, Sxy, Sxz,				
240, BEAM	,	1,	5,	48,	98,	0,	Syz, Pxy, Pxz, Pyz, DEN, MASS						
0									Orthotropic				
241, BEAM	,	1,	5,	98,	49,	0,	:	[DATA2] :	1, DB, NAME, CODE, USEELAST,				
0							ELAST or 2, ELAST, POISN, THERMAL, DEN,						
242, BEAM	,	1,	5,	49,	112,	0,	MASS						
0									1, CONC , con35				
243, BEAM	,	1,	5,	112,	114,	0,	0.05, 1, KS01-Civil(RC), KCI-2007						
0													
244, BEAM	,	1,	5,	114,	116,	0,			2, CONC , con24				
0							0.05, 1, KS01-Civil(RC), KCI-2007						
245, BEAM	,	1,	5,	116,	118,	0,							
0													
246, BEAM	,	1,	5,	118,	50,	0,	*MATL-COLOR						
0							:	iMAT, W_R, W_G, W_B, HF_R, HF_G, HF_B,					
247, BEAM	,	1,	5,	50,	140,	0,	HE_R, HE_G, HE_B, bBLEND, FACT						
0									1, 255, 0, 0, 0, 255, 0, 0, 0,				
248, BEAM	,	1,	5,	140,	142,	0,	255, NO, 0.5						
0									2, 255, 0, 0, 0, 255, 0, 0, 0,				
249, BEAM	,	1,	5,	142,	144,	0,	255, NO, 0.5						
0							*SECTION	:	Section				
250, BEAM	,	1,	5,	144,	146,	0,	:	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,					
0							SHAPE, [DATA1], [DATA2]						
251, BEAM	,	1,	5,	146,	54,	0,							
0													
252, BEAM	,	1,	5,	54,	105,	0,							
0													
253, BEAM	,	1,	5,	105,	53,	0,							
0													
254, BEAM	,	1,	5,	53,	84,	0,							
0													
255, BEAM	,	1,	5,	84,	86,	0,							

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1st line - SRC
;          D1,   D2,   [SRC]
;          ; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, 1, DB, NAME1, NAME2, D1, D2 ;
1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, 2, D11, D12, D13, D14, D15, D21, D22,
D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE,
SHAPE, iyVAR, izVAR, STYPE ; 1st
line - TAPERED
;          DB,   NAME1,   NAME2
;          ; 2nd
line(STYPE=DB)
;          [DIM1],   [DIM2]
;          ; 2nd
line(STYPE=USER)
;          D11, D12, D13, D14, D15, D16, D17, D18
;          ; 2nd
line(STYPE=VALUE)
;          AREA1, ASy1, ASz1, lxx1, lyy1, 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, THERMAL
;          ; 2nd
line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I],
[WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd
line(STYPE=PSC)

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;          bSHEARCHK, bSYM, bHUNCH,
[CMPCWEB-I], [CMPCWEB-J] ;
3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESH SIZE, MESH SIZE,
bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; 4th
line(STYPE=PSC)
;          [SIZE-A]-i
;          ; 5th line(STYPE=PSC)
;          [SIZE-B]-i
;          ; 6th line(STYPE=PSC)
;          [SIZE-C]-i
;          ; 7th line(STYPE=PSC)
;          [SIZE-D]-i
;          ; 8th line(STYPE=PSC)
;          [SIZE-A]-j
;          ; 9th line(STYPE=PSC)
;          [SIZE-B]-j
;          ; 10th line(STYPE=PSC)
;          [SIZE-C]-j
;          ; 11th
line(STYPE=PSC)
;          [SIZE-D]-j
;          ; 12th
line(STYPE=PSC)
;          GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc,
bMULTI, EsEc-L, EsEc-S ; 2nd
line(STYPE=CMP-B/I)
;          SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i,
Bf2_i, tf2_i ; 3rd
line(STYPE=CMP-B/I)
;          SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j,
Bf2_j, tf2_j ; 4th
line(STYPE=CMP-B/I)
;          N1, N2, Hr, Hr2, tr1, tr2
;          ; 5th
line(STYPE=CMP-B)
;          GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb,
Pgd, Psb, bSYM, SW_i, SW_j ; 2nd
line(STYPE=CMP-CI/CT)
;          OPT1,   OPT2,   [JOINT]
;          ; 3rd
line(STYPE=CMP-CI/CT)
;          [SIZE-A]-i
;          ; 4th
line(STYPE=CMP-CI/CT)
;          [SIZE-B]-i
;          ; 5th
line(STYPE=CMP-CI/CT)
;          [SIZE-C]-i
;          ; 6th
line(STYPE=CMP-CI/CT)

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;	[SIZE-D]-i	;	[SIZE-D]
;	7th	;	6th line
line(STYPE=CMP-CI/CT)		;	SW, GN, CTC, Bc, Tc, Hh, EgdEsb,
;	[SIZE-A]-j	;	DgdDsb, Pgd, Psb ; 7th line
;	8th	;	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
line(STYPE=CMP-CI/CT)		;	SHAPE ; 1st line
;	[SIZE-B]-j	;	- PSC
;	9th	;	OPT1, OPT2, [JOINT]
line(STYPE=CMP-CI/CT)		;	2nd line
;	[SIZE-C]-j	;	bSHEARCHK, [SCHK], [WT], WIDTH, bSYM,
;	10th	;	bSIDEHOLE ; 3rd line
line(STYPE=CMP-CI/CT)		;	bUSERDEFMESH SIZE, MESH SIZE,
;	[SIZE-D]-j	;	bUSERINPSTIFF, [STIFF] ; 4th
;	11th	;	line
line(STYPE=CMP-CI/CT)		;	bWE, [WARPING POINT]-i, [WARPING
;	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,	;	POINT]-j ; 5th line
STYPE1, STYPE2 ; 1st line		;	[SIZE-A]
- CONSTRUCT		;	6th line
;	SHAPE, ...(same with other type data	;	[SIZE-B]
from shape) ; Before		;	7th line
(STYPE1)		;	[SIZE-C]
;	SHAPE, ...(same with other type data	;	8th line
from shape) ; After		;	[SIZE-D]
(STYPE2)		;	9th line
;	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,	;	[DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4,
SHAPE ; 1st line		;	D5, D6, D7, D8, D9, D10
- COMPOSITE-SB		;	[DATA2] : CCSHAPE or iCEL or iN1, iN2
;	Hw, tw, B, Bf1, tf1, B2, Bf2, tf2	;	[SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2,
;	2nd line	;	D3, D4, D5, D6, D7, D8, D9, D10, iN1, iN2
;	N1, N2, Hr, Hr2, tr1, tr2	;	[DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
;	3rd line	;	[OFFSET] : OFFSET, iCENT, iREF, iHORZ,
;	SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc,	;	HUSER, iVERT, VUSER
Ps, Pc, bMulti, Elong, Esh ; 4th line		;	[OFFSET2]: OFFSET, iCENT, iREF, iHORZ,
;	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,	;	HUSERI, HUSER], iVERT, VUSERI, VUSER]
SHAPE ; 1st line		;	[JOINT] : 8(1CELL, 2CELL), 13(3CELL),
- COMPOSITE-SI		;	9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB), 0(nCELL),
;	Hw, tw, B, tf1, B2, tf2	;	2(nCEL2)
;	2nd line	;	[SIZE-A] : 6(1CELL, 2CELL), 10(3CELL),
;	SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc,	;	10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB), 5(nCELL),
Ps, Pc, bMulti, Elong, Esh ; 3rd line		;	11(nCEL2)
;	iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,	;	[SIZE-B] : 6(1CELL, 2CELL), 12(3CELL),
SHAPE ; 1st line		;	6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB), 8(nCELL),
- COMPOSITE-CI/CT		;	18(nCEL2)
;	OPT1, OPT2, [JOINT]	;	[SIZE-C] : 10(1CELL, 2CELL), 13(3CELL),
;	2nd line	;	9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB), 0(nCELL),
;	[SIZE-A]	;	11(nCEL2)
;	3rd line	;	[SIZE-D] : 8(1CELL, 2CELL), 13(3CELL),
;	[SIZE-B]	;	6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB), 0(nCELL),
;	4th line	;	18(nCEL2)
;	[SIZE-C]	;	[STIFF] : AREA, ASy, ASz, lxx, lyy, lzz
;	5th line	;	[SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3

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; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1,
SHR1, bAUTO_SHR2, SHR2, bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
; [WARPING POINT] : nWarpingCheck,
X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
1, COMPOSITE , ps중앙 , CT, 0, 0,
0, 0, 0, 0, YES, NO, CI
, , YES, NO, NO, NO, NO, NO, NO, NO,
NO
1.5, 0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.15, 0.1, 0, 0, 0.85, 0.2, 0, 0, 0.2
0.1, 0.45, 0, 0, 0.3, 0, 0
0.9, 1, 1.65, 0.9, 0.001, 0, 1.10351, 1,
0.18, 0.18, 1
2, COMPOSITE , ps단2 , CT, 0, 0,
0, 0, 0, 0, YES, NO, CI
, , YES, NO, NO, NO, NO, NO, NO, NO,
NO
1.5, 0.17, 0.105, 0, 0, 0.95, 0.095, 0, 0,
0.18
0.2, 0.45, 0, 0, 0.3, 0, 0
0.17, 0.105, 0, 0, 0.95, 0.095, 0, 0, 0.18
0.2, 0.45, 0, 0, 0.3, 0, 0
0.9, 1, 1.65, 0.9, 0.001, 0, 1.10351, 1,
0.18, 0.18, 1
3, COMPOSITE , ps단1 , CT, 0, 0,
0, 0, 0, 0, YES, NO, CT
, , YES, NO, NO, NO, NO, NO, NO, NO,
NO
1.5, 0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.9, 1, 1.65, 0.9, 0.001, 0, 1.10351, 1,
0.18, 0.18, 1
4, DBUSER , cros , CT, 0, 0,
0, 0, 0, 0, YES, NO, SB , 2, 1.3, 0.25, 0, 0, 0, 0,
0, 0, 0, 0
5, DBUSER , tem , CC, 0, 0,
0, 0, 0, 0, YES, NO, SB , 2, 0.0001, 0.0001, 0, 0,
0, 0, 0, 0, 0, 0
*SECT-COLOR
; iSEC, W_R, W_G, W_B, HF_R, HF_G, HF_B,
HE_R, HE_G, HE_B, bBLEND, FACT
1, 255, 0, 0, 0, 255, 0, 0, 0,
255, NO, 0.5
2, 255, 0, 0, 0, 255, 0, 0, 0,
255, NO, 0.5
3, 255, 0, 0, 0, 255, 0, 0, 0,
255, NO, 0.5

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4, 255, 0, 0, 0, 255, 0, 0, 0,
255, NO, 0.5
5, 255, 0, 0, 0, 255, 0, 0, 0,
255, NO, 0.5
*COMP-GEN-SECT-PSC-DESIGN ; Composite
Section for PSC Design
; SECT, bCompPSC, (Z1, Z2, Z3, t1, t2, t3,
TotT)-I, (Z1, Z2, Z3, t1, t2, t3, TotT)-J
1, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0
2, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0
3, NO, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, [DATA1], [DATA2] ; 1st
line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, BLT, D1, ..., D8, iCEL ; 1st
line - VALUE
; AREA, ASy, ASz, 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, bWE,
SHAPE, ELAST, DEN, POIS, POIC, SF, THERMAL ;
1st line - SRC
; D1, D2, [SRC]
; 2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, 1, DB, NAME1, NAME2, D1, D2 ;
1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE,
SHAPE, 2, D11, D12, D13, D14, D15, D21, D22,
D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE,
SHAPE, iyVAR, izVAR, STYPE ; 1st
line - TAPERED
; DB, NAME1, NAME2
; 2nd
line(STYPE=DB)
; [DIM1], [DIM2]
; 2nd
line(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18
; 2nd
line(STYPE=VALUE)

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;          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, THERMAL
;                                     ; 2nd
line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I],
[WT-J], WI, WJ, bSYM, bSIDEHOLE ; 3rd
line(STYPE=PSC)
;          bSHEARCHK, bSYM, bHUNCH,
[CMPEWEB-I], [CMPEWEB-J]          ;
3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESH SIZE, MESH SIZE,
bUSERINPSTIFF, [STIFF-I], [STIFF-J] ; 4th
line(STYPE=PSC)
;          [SIZE-A]-i
;                                     ; 5th line(STYPE=PSC)
;          [SIZE-B]-i
;                                     ; 6th line(STYPE=PSC)
;          [SIZE-C]-i
;                                     ; 7th line(STYPE=PSC)
;          [SIZE-D]-i
;                                     ; 8th line(STYPE=PSC)
;          [SIZE-A]-j
;                                     ; 9th line(STYPE=PSC)
;          [SIZE-B]-j
;                                     ; 10th line(STYPE=PSC)
;          [SIZE-C]-j
;                                     ; 11th
line(STYPE=PSC)

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

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```

0.2, 0.45, 0, 0, 0.3, 0, 0
0.17, 0.105, 0, 0, 0.95, 0.095, 0, 0, 0.18
0.2, 0.45, 0, 0, 0.3, 0, 0
0.9, 1, 1.65, 0.9, 0.001, 0, 1.10351, 1,
0.18, 0.18, 1
3, COMPOSITE , ps단1 , CT, 0, 0,
0, 0, 0, 0, YES, NO, CT
, , YES, NO, NO, NO, NO, NO, NO, NO,
NO
1.5, 0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.15, 0.043, 1.307, 0.3, 0, 0.15, 0.45
0, 0, 0, 0, 0, 0, 0, 0
0.9, 1, 1.65, 0.9, 0.001, 0, 1.10351, 1,
0.18, 0.18, 1
4, DBUSER , cros , CT, 0, 0,
0, 0, 0, 0, YES, NO, SB , 2, 1.3, 0.25, 0, 0, 0, 0,
0, 0, 0, 0
5, DBUSER , tem , CC, 0, 0,
0, 0, 0, 0, YES, NO, SB , 2, 0.0001, 0.0001, 0, 0,
0, 0, 0, 0, 0, 0
*THICKNESS ; Thickness
; iTHK, TYPE, bSAME, THIK-IN, THIK-OUT,
bOFFSET, OFFTYPE, VALUE : TYPE=VALUE
; iTHK, TYPE, SUBTYPE, RPOS, WEIGHT
; TYPE=STIFFENED,
SUBTYPE=VALUE
; SHAPE, THIK-IN, THIK-OUT, HU, HL
; for yz section
; SHAPE, THIK-IN, THIK-OUT, HU, HL
; for xz section
; iTHK, TYPE, SUBTYPE, RPOS, PLATETHIK
; TYPE=STIFFENED,
SUBTYPE=USER
; bRIB {, SHAPE, DIST, SIZE1, SIZE2, ...,
SIZE6} ; for yz section
; bRIB {, SHAPE, DIST, SIZE2, SIZE2, ...,
SIZE6} ; for xz section
; iTHK, TYPE, SUBTYPE, RPOS, PLATETHIK,
DBNAME ; TYPE=STIFFENED,
SUBTYPE=DB
; bRIB {, SHAPE, DIST, SNAME}
; for yz section
; bRIB {, SHAPE, DIST, SNAME}
; for xz section
1, VALUE, YES, 0.2, 0, NO, 0, 0
*THIK-COLOR
; iTHK, 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

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*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
고정하중, D ,
방음벽, D ,
궤도 , D ,
자갈도상, D ,
배수콘크리트, D ,
자갈막이벽, D ,
시험차량_LC1, USER,
시험차량_LC2, USER,
시험차량_LC3, USER,
*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
64to69, 111111,
*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, GROUP
; 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, 64, 10, GEN , 0, 1e+010,
1e+010, 1e+010, 0, 0, 0, NO, 0.5, 0.5,
2, 66, 28, GEN , 0, 1e+010,
1e+010, 1e+010, 0, 0, 0, NO, 0.5, 0.5,
3, 68, 37, GEN , 0, 1e+010,
1e+010, 1e+010, 0, 0, 0, NO, 0.5, 0.5,
4, 65, 15, GEN , 0, 1e+010,
1e+010, 360, 0, 0, 0, NO, 0.5, 0.5,
5, 67, 33, GEN , 0, 1e+010,
1e+010, 360, 0, 0, 0, NO, 0.5, 0.5,
6, 69, 42, GEN , 0, 1e+010,
1e+010, 360, 0, 0, 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
고정하중, 1, 방음벽, 1, 궤도, 1, 자갈도상, 1, 배수
콘크리트, 1, 자갈막이벽, 1
*USE-STLD, 고정하중
; *SELFWEIGHT, X, Y, Z, GROUP
*SELFWEIGHT, 0, 0, -1,
; End of data for load case [고정하중]
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*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
236, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.564, 1, -11.564, 0, 0, 0, 0, ,
NO, 0, 0, NO,
237, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
238, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
239, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
240, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
241, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
242, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
243, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
244, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
245, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
246, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
247, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
248, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,

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249, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
250, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
251, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
252, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
253, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
254, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
255, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
256, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
257, BEAM      , UNILoad, GZ, NO , NO,
aDir[1], , , , 0, -11.56, 1, -11.56, 0, 0, 0, 0, , NO,
0, 0, NO,
: End of data for load case [방음벽]
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*USE-STLD, 궤도
*CONLOAD      : Nodal Loads
: NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
28, 0, 0, -12.1, 3.63, 0, 0,
29, 0, 0, -12.1, 3.63, 0, 0,
30, 0, 0, -12.1, 3.63, 0, 0,
31, 0, 0, -12.1, 3.63, 0, 0,
32, 0, 0, -12.1, 3.63, 0, 0,
33, 0, 0, -12.1, 3.63, 0, 0,
34, 0, 0, -12.1, 3.63, 0, 0,
35, 0, 0, -12.1, 3.63, 0, 0,
36, 0, 0, -12.1, 3.63, 0, 0,
76, 0, 0, -12.1, 3.63, 0, 0,
77, 0, 0, -12.1, 3.63, 0, 0,
90, 0, 0, -12.1, 3.63, 0, 0,
91, 0, 0, -12.1, 3.63, 0, 0,
101, 0, 0, -12.1, 3.63, 0, 0,
108, 0, 0, -12.1, 3.63, 0, 0,
124, 0, 0, -12.1, 3.63, 0, 0,
125, 0, 0, -12.1, 3.63, 0, 0,
126, 0, 0, -12.1, 3.63, 0, 0,
127, 0, 0, -12.1, 3.63, 0, 0,

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152, 0, 0, -12.1, 3.63, 0, 0,
153, 0, 0, -12.1, 3.63, 0, 0,
154, 0, 0, -12.1, 3.63, 0, 0,
155, 0, 0, -12.1, 3.63, 0, 0,
; End of data for load case [궤도]
-----
*USE-STLD, 자갈도상
*PRESSURE : Pressure Loads
; ELEM_LIST, CMD, ETYP, LTYP, DIR, VX, VY,
VZ, bPROJ, PU, P1, P2, P3, P4, GROUP ;
ETYP=PLATE, LTYP=FACE
; ELEM_LIST, CMD, ETYP, LTYP, iEDGE, DIR, VX,
VY, VZ, PU, P1, P2, GROUP ;
ETYP=PLATE, LTYP=EDGE
; ELEM_LIST, CMD, ETYP, iEDGE, DIR, VX, VY,
VZ, PU, P1, P2, GROUP ;
ETYP=PLANE
; ELEM_LIST, CMD, ETYP, iFACE, DIR, VX, VY,
VZ, bPROJ, PU, P1, P2, P3, P4, GROUP ;
ETYP=SOLID
; [PLATE] : plate, plane stress, [PLANE] :
axisymmetric, plane strain
51, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
52, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
56, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
57, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
58, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
62, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
63, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
64, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
68, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
69, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
70, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
74, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
75, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
76, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
80, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,

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-8.55, 0, 0, 0, 0,
81, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
82, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
86, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
87, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
88, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
92, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
93, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
94, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
104, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
105, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
108, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
109, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
112, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
113, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
124, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
125, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
128, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
129, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
132, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
133, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
140, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
142, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
144, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
150, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
152, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,

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154, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
172, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
173, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
174, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
175, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
180, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
181, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
182, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
183, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
188, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
189, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
190, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
191, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
212, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
213, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
214, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
215, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
220, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
221, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
222, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
223, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
228, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
229, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
230, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
231, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-8.55, 0, 0, 0, 0,
; End of data for load case [자갈도상]

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*USE-STLD, 배수콘크리트
*PRESSURE      : Pressure Loads
; ELEM_LIST, CMD, ETYP, LTYP, DIR, VX, VY,
VZ, bPROJ, PU, P1, P2, P3, P4, GROUP ;
ETYP=PLATE, LTYP=FACE
; ELEM_LIST, CMD, ETYP, LTYP, iEDGE, DIR, VX,
VY, VZ, PU, P1, P2, GROUP ;
ETYP=PLATE, LTYP=EDGE
; ELEM_LIST, CMD, ETYP, iEDGE, DIR, VX, VY,
VZ, PU, P1, P2, GROUP ;
ETYP=PLANE
; ELEM_LIST, CMD, ETYP, iFACE, DIR, VX, VY,
VZ, bPROJ, PU, P1, P2, P3, P4, GROUP ;
ETYP=SOLID
; [PLATE] : plate, plane stress, [PLANE] :
axisymmetric, plane strain
48, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
49, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
50, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
51, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
52, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
53, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
54, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
55, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
56, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
57, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
58, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
59, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
60, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
61, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
62, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
63, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
64, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,

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215, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
220, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
221, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
222, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
223, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
228, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
229, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
230, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
231, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
232, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
233, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
234, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
235, PRES , PLATE, FACE, LZ, 0, 0, 0, NO,
-2.45, 0, 0, 0, 0,
; End of data for load case [배수콘크리트]
-----
*USE-STLD, 자갈막이벽
*CONLOAD ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
37, 0, 0, -2.358, 0, 0, 0,
38, 0, 0, -2.36, 0, 0, 0,
39, 0, 0, -2.36, 0, 0, 0,
40, 0, 0, -2.36, 0, 0, 0,
41, 0, 0, -2.36, 0, 0, 0,
42, 0, 0, -2.36, 0, 0, 0,
43, 0, 0, -2.36, 0, 0, 0,
44, 0, 0, -2.36, 0, 0, 0,
45, 0, 0, -2.36, 0, 0, 0,
71, 0, 0, -2.36, 0, 0, 0,
73, 0, 0, -2.36, 0, 0, 0,
85, 0, 0, -2.36, 0, 0, 0,
87, 0, 0, -2.36, 0, 0, 0,
99, 0, 0, -2.36, 0, 0, 0,
106, 0, 0, -2.36, 0, 0, 0,
113, 0, 0, -2.36, 0, 0, 0,
115, 0, 0, -2.36, 0, 0, 0,
117, 0, 0, -2.36, 0, 0, 0,
119, 0, 0, -2.36, 0, 0, 0,
141, 0, 0, -2.36, 0, 0, 0,

```

```

143, 0, 0, -2.36, 0, 0, 0,
145, 0, 0, -2.36, 0, 0, 0,
147, 0, 0, -2.36, 0, 0, 0,
; End of data for load case [자갈막이벽]
-----
*PNLOADTYPE ; Plane Load Type
; NAME=NAME, TYPE(POINT/LINE/AREA), DESC
; CP_X=X1, X2, ...
; CP_Y=Y1, Y2, ...
; DATA=X1, Y1, F1, M1
; TYPE=POINT
; ...
; Xn, Yn, Fn, Mn
; DATA=bUNIFORM, TYPE, X1, Y1, L1, X2, Y2, L2
; TYPE=LINE
; DATA=bUNIFORM, b3PT, X1, Y1, L1, X2, Y2,
L2, X3, Y3, L3, X4, Y4, L4 ; TYPE=AREA
NAME=시험차량, POINT,
DATA=7.40013, 1.201, -86.975, 0
9.5, 1.201, -86.975, 0
13.6001, 1.201, -86.975, 0
15.7, 1.201, -86.975, 0
7.40013, 2.699, -86.975, 0
9.5, 2.699, -86.975, 0
13.6001, 2.699, -86.975, 0
15.7, 2.699, -86.975, 0
NAME=시험차량_LC2, POINT,
DATA=5.27832, 1.201, -86.975, 0
7.44994, 1.201, -86.975, 0
11.5501, 1.201, -86.975, 0
13.6499, 1.201, -86.975, 0
5.27835, 2.699, -86.975, 0
7.44994, 2.699, -86.975, 0
11.5501, 2.699, -86.975, 0
13.6499, 2.699, -86.975, 0
NAME=시험차량_LC3, POINT,
DATA=1.5, 1.201, -86.975, 0
3.59987, 1.201, -86.975, 0
7.7, 1.201, -86.975, 0
9.79987, 1.201, -86.975, 0
1.5, 2.699, -86.975, 0
3.59987, 2.699, -86.975, 0
7.7, 2.699, -86.975, 0
9.79987, 2.699, -86.975, 0
*PLANELOAD ; Plane Loads
; LCNAME, LTNAME, ETYPE, GROUP
; 1st line
; ELEM-SEL, ELEM-GROUP, FACE, DIR, PROJ,
DESC ; 2nd line
; OX, OY, OZ, XX, XY, XZ, YX, YY, YZ, TOL,
bLAREA, iNODE1, ... , iNODEn ; 3rd line

```

```

시험차량_LC1, 시험차량, PLATE,
LPLANE, , 1, NLP, NO,
0, 0, 0, 3.75, 0, 0, 3.75, 2.275, 0, 0.001, NO
시험차량_LC2, 시험차량_LC2, PLATE,
LPLANE, , 1, NLP, NO,
0, 0, 0, 12.32, 0, 0, 12.32, 3.425, 0, 0.001,
NO
시험차량_LC3, 시험차량_LC3, PLATE,
LPLANE, , 1, NLP, NO,
0, 0, 0, 8.56, 0, 0, 8.56, 3.425, 0, 0.001, NO
*MVLDCODE : Moving Load Code
: CODE=CODE
CODE=KOREA
*SURFLANE : Traffic Surface Lanes
: NAME=NAME, WIDTH, START, END, MOVING,
WS, bLANEOPT, ALLOWWIDTH : line 1
: iNODE1, OFFSET1, FACT1, bSPAN1, ECCVL
... : from line 2
: iNODE1, OFFSET1, dSPAN, dFACT, ...
: from line 2
NAME=li, 1.435, 0, 0, BOTH, 1.435, NO, 0
28, 0.3, 0.287, YES, 0, 29, 0.3,
0.287, NO, 0
76, 0.3, 0.287, NO, 0, 77, 0.3, 0.287,
NO, 0
30, 0.3, 0.287, NO, 0, 101, 0.3,
0.287, NO, 0
31, 0.3, 0.287, NO, 0, 124, 0.3,
0.287, NO, 0
125, 0.3, 0.287, NO, 0, 126, 0.3,
0.287, NO, 0
127, 0.3, 0.287, NO, 0, 32, 0.3,
0.287, NO, 0
152, 0.3, 0.287, NO, 0, 153, 0.3,
0.287, NO, 0
154, 0.3, 0.287, NO, 0, 155, 0.3,
0.287, NO, 0
36, 0.3, 0.287, NO, 0, 108, 0.3,
0.287, NO, 0
35, 0.3, 0.287, NO, 0, 90, 0.3, 0.287,
NO, 0
91, 0.3, 0.287, NO, 0, 34, 0.3, 0.287,
NO, 0
33, 0.3, 0.287, NO, 0
*VEHICLE : Vehicles
: if Moving Load Code is China
: NAME=NAME, 1, TYPE-NAME, CODE
;
standard
: NAME=NAME, 2, LTYPE, [TRUCK/LANE] or
[TRAIN/SUBWAY] or [CROWD]

```

```

: user: line 1
: LOAD1, DIST1, LOAD2, DIST2, ...
: user: from
line 2
: [TRUCK/LANE] : 1, P, Qm, Qq
: truck(JTG)
: [TRUCK/LANE] : 2, P, Qm, Qq
: lane load1
: [TRUCK/LANE] : 3, Qk, Pk1, L1, Pk2, L2
: lane load2
: [TRUCK/LANE] : 4, dW, dD
: crawler
type
: [TRUCK/LANE] : 5
: GC type
load
: [TRAIN/SUBWAY] : iTYPE, W1, D1, W2, D2
;
train-type1,3
: [TRAIN/SUBWAY] : iTYPE, DD, FD, BD,
M A I N C O U N T
: train-type2
: [TRAIN/SUBWAY] : 4, P1, D1, P2, D2, P3, D3,
P4, dD, Po, n, IFR : subway
: [CROWD] : 1, dW1
;
crowd-type1
: [CROWD] : 2, dW1, dL1, dW2, dL2, WIDTH
;
crowd-type2
: if Moving Load Type is India
: NAME=NAME, 1, TYPE-NAME, CODE
;
standard
: NAME=NAME, 2, bWTB, P, D, Pb, Db, dD1, dD2,
NDIST : user:
line 1
: NAME=NAME, 2, bWTB, dD1, dD2, NDIST
: user:
line 1
: LOAD1, DIST1, LOAD2, DIST2, ...
: user: from
line 2
: if Moving Load Code is CANADA
: NAME=NAME, 1, TYPE-NAME, DLA, CODE,
[DYNA]
;
standard
: NAME=NAME, 2, bTRAIN, W(W1), PL(D1),
PLM(W2), PLV(D2), NDIST, [DYNA]
: user: line 1
: LOAD1, DIST1, LOAD2, DIST2, ...

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; user: from
line 2
; [DYNA] : nDYNA, FACT1AXLE, FACT2AXLE,
FACT3AXLE ;
Dynamic Load Allowance
; if Moving Load Code is BS
; NAME=NAME, 1, TYPE-NAME, CODE, UNITNUM
;
standard
; NAME=nLane, FACTOR1, FACTOR2, FACTOR3,
FACTOR4, ADDDATA, AL, CA, LL
; HA, HA & HB, HA & HB(Auto)
; NAME=NAME, 2, iSTYPE, W1, W2, W3, L, Pa,
Pb, D1, D2, d, UNITNUM ;
user(BS 5400)
; NAME=NAME, 2, iSTYPE, [BD37/01-HA],
[ B S - D A T A - L F ]
; user(HA)
; NAME=NAME, 2, iSTYPE, [BS-DATA-HB]
;
user(HB)
; NAME=NAME, 2, iSTYPE, [BD37/01-HA2],
[BS-DATA-HB2], [BS-DATA-LF]
; user(HA&HB)
; NAME=NAME, 2, iSTYPE, [BD37/01-HA],
[BD37/01-HB], [BS-DATA-LF]
; user(HA&HB(AUTO))
; NAME=NAME, 2, iSTYPE, W, L
;
user(Pedestrian)
; NAME=NAME, 2, iSTYPE, V, AN, MINS, MAXS,
P1, D1, P2, D2, ... ;
user(Special Vehicle)
; [BS-DATA-HA] : W1, W2, W3, EXP, EXP2, L1,
L2, Pa
; [BS-DATA-HA2] : W1, W2, W3, EXP, EXP2, L1,
L2
; [BS-DATA-HB] : Pb, D1, D2, d, UNITNUM
; [BS-DATA-HB2] : Pb, D1, D2, d, dd, UNITNUM
; [BS-DATA-LF] : nLT, LF1, LF2, LF3, LF4
; if Moving Load Code is EUROCODE
; NAME=NAME, 1, iTYPE, TYPE-NAME, PSY1,
PSY2, PHI, [AF7] ;
standard (LM1, FLM1)
; NAME=NAME, 1, iTYPE, TYPE-NAME, bDF, bU,
PHI, PSY, ADJ, IN ;
standard (others)
; NAME=NAME, 2, 1, [AF7]
; user(Type
1)
; [LOAD7], D, PHI, TPSY, UPSY

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; user(Type
1): line 2
; NAME=NAME, 2, 2, ALP, TPSY, W, BET, LPSY,
P1, D1, P2, D2, ... ;
user(Type 2)
; NAME=NAME, 2, 3
; user(Type
3)
; [LOADCASE1]
; user(Type
3): line 2
; [LOADCASE2]
; user(Type
3): line 3
; [LOADCASE3]
; user(Type
3): line 4
; NAME=NAME, 2, 4, WS, V, AN, MINS, MAXS,
DYF, UI, F, P1, D1, P2, D2, ... ;
user(Type 4)
; NAME=NAME, 2, 5, INT, bPHI1, PHI1, bPHI2,
PHI2 ;
user(Type 5)
; [VEHICLE1]
; user(Type
5): line 2
; [VEHICLE2]
; user(Type
5): line 3
; [VEHICLE3]
; user(Type
5): line 4
; [AF7] : TF1, TF2, TF3, UF1, UF2, UF3, UF4
; adjustment
factor
; [LOAD7] : TL1, TL2, TL3, UL1, UL2, UL3, UL4
;
tandem/udl loads
; [LOADCASE] : bUSE, N, bDF, bUI, PHI, P1, L1,
P2, L2, ... ; load case
; [VEHICLE] : bUSE, N, P1, L1, P2, L2, ...
; vehicle
; if Moving Load Code is RUSSIA
; NAME=NAME, 1, iTYPE, K, nDYNAFAC,
dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; standard (SK)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC,
dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; standard (SK FATIGUE)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC,
dDYNAFAC, dDYNAFAC_UDL

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;          bFATI, nLOADFAC, dLOADFAC,
dLOADFAC_UDL, s1[3], s1_UDL[3]          ;
standard (AK)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC,
dDYNAFAC, nLOADFAC, dLOADFAC,

;          bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT
; standard (N14)
; NAME=NAME, 1, iTYPE, K, nDYNAFAC,
dDYNAFAC, nLOADFAC, dLOADFAC,

;          bTWOVEHI, TWOVEHI_FACT,
b2NDREDUC, 2NDREDUC_FACT
; standard (N11)
; NAME=NAME, 1, iTYPE, nDYNAFAC,
dDYNAFAC, dEMPTYCAR

;          bFATI, nLOADFAC, dLOADFAC,
; standard
(SUBWAY TRAINS)
; NAME=NAME, 1, iTYPE, VARIABLE, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;          bFATI, nLOADFAC,
dLOADFAC, ;
standard (TRAMCARS)
; NAME=NAME, 1, iTYPE, nDYNAFAC,
dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; standard (NK-80)
; NAME=NAME, 1, iTYPE, W, D, nDYNAFAC,
dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; standard (NG-60)
; NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI,
nLOADFAC, dLOADFAC ;
standard (UNIFORM LOAD)
; NAME=NAME, 1, iTYPE, BRIDGETYPE, W, bFATI,
nLOADFAC, dLOADFAC ;
standard (UNIFORM LOAD(W/O OTHER LOADS))
; NAME=NAME, 1, iTYPE, BRIDGETYPE, P
;
standard (CONCENTRATED LOAD (W/O OTHER
LOADS))
; NAME=NAME, 2, iTYPE, W, nDYNAFAC,
dDYNAFAC, dDYNAFAC_UDL

;          bFATI, nLOADFAC, dLOADFAC,
dLOADFAC_UDL, s1[3], s1_UDL[3]          ; user
(Type 1)
; NAME=NAME, 2, iTYPE, nDYNAFAC,
dDYNAFAC, dEMPTYCAR

```

```

;          bFATI, nLOADFAC, dLOADFAC,
; user
(Type 2)
; NAME=NAME, 2, iTYPE, Variable, nDYNAFAC,
dDYNAFAC, dEMPTYCAR
;          bFATI, nLOADFAC,
dLOADFAC, ;
user (Type 3)
; NAME=NAME, 2, iTYPE, nDYNAFAC,
dDYNAFAC, nLOADFAC, dLOADFAC

;          bTWOVEHI,
TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
; user (Type 4)
; NAME=NAME, 2, iTYPE, nDYNAFAC,
dDYNAFAC, nLOADFAC, dLOADFAC

;          bTWOVEHI,
TWOVEHI_FACT, b2NDREDUC, 2NDREDUC_FACT
; user (Type 5)
; NAME=NAME, 2, iTYPE, W, D, nDYNAFAC,
dDYNAFAC, bFATI, nLOADFAC, dLOADFAC
; user (Type 6)
; NAME=NAME, 2, iTYPE, P, W, bFATI,
nLOADFAC, dLOADFAC
; user (Type 7)
; if Moving Load Code is KSCE-LSD15
; NAME=NAME, 1, TYPE-NAME, nLANETYPE,
dDYNAFAC, CODE, nLANELOAD, L,
CONVERTDIST ; standard
; NAME=NAME, 2, 8, L1, W1, W2, EXP,
dDYNAFAC, nLANELOAD, L, CONVERTDIST
; user: line 1 (Type 1)
; NAME=NAME, 2, 1, W1, W2, D1, D2, 0, 0, 0, NO
; user: line
1 (Type 2)
; NAME=NAME, 2, 6, LOADNUM, DIST, W, L, 0, 0,
0, NO ; user:
line 1 (Type 3)
; LOAD1, DIST1, (DIST2_1), LOAD2, DIST2,
(DIST2_2), ... ; user:
from line 2
; if Moving Load Code is South Africa
; NAME=NAME, 1, TYPE-NAME, CODE, bINCREL,
dINCREL ;
standard NA
; NAME=NAME, 1, TYPE-NAME, CODE, UNITNUM
;

```

```

standard NB
; NAME=NAME, 1, TYPE-NAME, CODE, OPPOSITE
;
standard NC
; NAME=NAME, 2, TYPE, W1, L, W2, W3, PA,
bINCREL, dINCREL
;
user NA
; NAME=NAME, 2, TYPE, PB, UNITNUM, DELTA,
D1, D2
;
user NB
; NAME=NAME, 2, TYPE, P, OPPOSITE, NUM1,
NUM2, NUM3 [DIST1], [DIST2], [DIST3]
;
user NC
; if 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=EL-18, 1, EL-18, 0, KS-TR
*MVLDCASE ; Moving Load Cases
; NAME=NAME, nLCTYPE, SCALE1, SCALE2,
SCALE3, SCALE4, SCALE5, SCALE6, COMB, DESC,
LCOM, SERIAL ; 1st line
; nLTYPE, 2LFACTOR1, 2LFACTOR2,
3LFACTOR1, 3LFACTOR2, 3LFACTOR3,
3LFACTOR4 ; 2st line
; TYPE1, VCLASS1, SCALE1, iMIN1, iMAX1,
LANE11, LANE12, ...
; 3nd line
;
;
; ...
; ...

```

```

; TYPEEn, VCLASSn, SCALEn, iMINn, iMAXn,
LANEn1, LANEn2, ...
; n+1th line
; NAME=NAME, nLCTYPE, VEHICLE, REFLANE,
ECCEN, SCALE, DESC
; Permit
; NAME=NAME, nLCTYPE, DESC, bOPTIM,
SUBLANEW, MINSPACING, MARGIN, LANE,
MINNUM, MAXNUM, SERIAL ; Traffic Lane
Optimization
; TYPE1, VCLASS1, SCALE1...
;
Traffic Lane Optimization 1st line
;
;
Traffic Lane Optimization ...
; TYPEEn, VCLASSn, SCALEn...
;
Traffic Lane Optimization n+1th line
NAME=TL, 0, 1, 1, 0.9, 0.75, 0.75, 0.75,
INDEPENDENT, 표준열차, 0, 0
1, 1, 1, 1, 1, 0.5, 0.25
VL, EL-18, 1, 1, 1, li
*LOADCOMB ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC,
iSERV-TYPE, nLCOMTYPE ; line 1
; ANAL1, LCNAME1, FACT1, ...
; from line 2
NAME=합성후, GEN, ACTIVE, 0, 0, , 0, 0
ST, 방음벽, 1, ST, 궤도, 1, ST, 자갈도상, 1,
ST, 배수콘크리트, 1
ST, 자갈막이벽, 1, ST, 고정하중, 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)
MV, TL, 128, 192, 0, 0, 192, 192, 192, 192, 0
ST, 고정하중, 93, 255, 87, 163, 160, 255, 210,
210, 210
ST, 방음벽, 192, 0, 192, 255, 128, 0, 163, 160,
255
ST, 궤도, 0, 128, 192, 0, 128, 128, 255, 255, 255
ST, 자갈도상, 255, 192, 87, 192, 72, 0, 146, 0,
255
ST, 배수콘크리트, 255, 128, 0, 0, 192, 128, 192,
72, 0
ST, 자갈막이벽, 255, 160, 255, 192, 72, 0, 192,
192, 192
CB, 합성후, 163, 255, 160, 146, 0, 255, 146, 0,
255
ST, 시험차량_LC1, 0, 157, 192, 255, 160, 255,

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255, 87, 128
ST, 시험차량_LC2, 255, 87, 128, 0, 128, 57, 163,
160, 255
ST, 시험차량_LC3, 255, 0, 192, 192, 0, 192, 212,
160, 255
*EIGEN-CTRL ; Eigenvalue Analysis Control
; TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX,
FRMIN, FRMAX, bSTRUM ; TYPE=EIGEN
; TYPE, bINCNL, iGNUM
; ; TYPE=RITZ(line 1)
; KIND1, CASE1/GROUND1, iNOG1, ...
; ; TYPE=RITZ(from line2)
LANCZOS, 50, 20, 1, 1e-010, NO, 0, 0, NO
*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, CONC , con35 , 1,
KS01-Civil(RC), ,C35 , NO, 1,
, , , 0, 0, 24500, NO, 0, 0,
, , , 0, NO, 1, , , 0, 0, 0
2, CONC , con24 , 1,
KS01-Civil(RC), ,C24 , NO, 1,
, , , 0, 0, 16800, NO, 0, 0,
, , , 0, NO, 1, , , 0, 0, 0
*SECTION MANAGER-GROUP & PART ; Section
Manager - Group & Part
; SECT = NO, bSAMEJ
; ; line 1
; GRPDISIZE, GRPDJSIZE, PARTISIZE,

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```

PARTJSIZE ; line 2
;
.....
;
; LOOP UTIL (GRPDISIZE, GRPDJSIZE)
;
; GROUPID, GROUPNAME, GROUPTYPE
; line n
;
.....
;
; LOOP UTIL (PARTISIZE, PARTJSIZE)
;
; PARTTYPE, GROUPID, PARTNAME,
PARTSHAPE, bSTIFFENER ;
line n
; LINESIZE, LINEINDEX[i].....
; line n
;
.....
;
SECT=1, YES
0, 0, 0, 0
SECT=2, YES
0, 0, 0, 0
SECT=3, YES
0, 0, 0, 0
*SECTION MANAGER-STIFFENER ; Section
Manager - Stiffener
; SECT = NO, bSAMEJ
; ; line 1
; STFNISIZE, STFNJSIZE
; line 2
;
.....
;
; LOOP UTIL (STFNISIZE, STFNJSIZE)
;
; TYPE, Z, STANDREF, POSLINE,
STANDREFL, NUM, CTC ;
line n
; STIFFTYPE, dSIZE(0 ~ 20)
; line n
; LINESIZE, LINEINDEX[i].....
; line n
;
.....
;
SECT=1, YES
0, 0
SECT=2, YES

```

0, 0
SECT=3, YES

0, 0
*ENDDATA