

■ 원정교 부산방향(P2) 하부 output

LOAD SET FOR ELEMENT OUTPUTS - Load Set 1

<< LOAD COMBI/CASE/ENVEL ABBREVIATION TABLE >>

ABBREVIATION TYPE	DESCRIPTION	FULL	NAME
-	-	-	-
No Abbreviation was made in this Load Set. All names are less than 8 char.s			
-	-	-	-

<< SELECTED LOAD CASE/COMBINATION DETAIL LIST >>

[Selected Load Cases]

LOAD DESCRIPTION DETAIL TYPE	CASE	ANAL.TYPE STATIC LOAD CASE
D	User Defined Load (USER)	Static
L	User Defined Load (USER)	Static
W-TR	User Defined Load (USER)	Static
WL	User Defined Load (USER)	Static
W-LO	User Defined Load (USER)	Static

BEAM ELEMENT FORCES & MOMENTS DEFAULT PRINTOUT Unit System : kN , m

ELEM SHEAR-y MOMENT-z	MAT	SEC SHEAR-z	LC TORSION	PT	AXIAL MOMENT-y
1	1	1	D	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	214.9	0.0	-220.3	0.0	0.0
0.0	0.0	0.0	L	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	W-TR	I	-25.6
0.0	0.0	0.0	0.0	0.0	-25.6
0.0	0.0	0.0	WL	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	W-LO	I	0.0
-20.8	0.0	0.0	0.0	21.3	0.0
2	1	2	D	I	0.0
0.0	3663.4	0.0	-220.3	0.0	0.0
0.0	4008.0	0.0	-8850.5	0.0	0.0
0.0	802.1	0.0	L	I	0.0
0.0	802.1	0.0	0.0	0.0	0.0

0.0	0.0	0.0	W-TR	I	-289.5
0.0	0.0	0.0	802.3	J	-289.5
0.0	0.0	0.0	WL	I	-31.9
0.0	0.0	0.0	173.9	J	-31.9
0.0	0.0	0.0	173.9	J	0.0
-20.8	0.0	0.0	0.0	0.0	21.3
-45.9	0.0	0.0	0.0	0.0	96.3
3	1	3	D	I	0.0
0.0	4008.0	0.0	-8850.5	J	0.0
0.0	4316.9	0.0	-15094.2	J	0.0
0.0	802.1	0.0	L	I	0.0
0.0	802.1	0.0	-1804.7	J	0.0
0.0	802.1	0.0	-3007.8	J	0.0
0.0	0.0	0.0	W-TR	I	-289.5
0.0	0.0	0.0	802.3	J	-289.5
0.0	0.0	0.0	WL	I	-31.9
0.0	0.0	0.0	173.9	J	-31.9
0.0	0.0	0.0	173.9	J	0.0
-45.9	0.0	0.0	0.0	0.0	96.3
-68.1	0.0	0.0	0.0	0.0	181.8
4	1	3	D	I	0.0
0.0	-4609.6	0.0	-16191.7	J	0.0
0.0	-4300.7	0.0	-9509.1	J	0.0
0.0	-673.0	0.0	L	I	0.0
0.0	-673.0	0.0	-2523.7	J	0.0
0.0	-673.0	0.0	-1514.2	J	0.0
0.0	0.0	0.0	W-TR	I	263.9
0.0	0.0	0.0	-802.3	J	263.9
0.0	0.0	0.0	-802.3	J	0.0
0.0	0.0	0.0	WL	I	31.9
0.0	0.0	0.0	-173.9	J	31.9
0.0	0.0	0.0	-173.9	J	0.0
0.0	0.0	0.0	W-LO	I	0.0
68.1	0.0	0.0	0.0	0.0	181.8
45.9	0.0	0.0	0.0	0.0	96.3
5	1	2	D	I	0.0
0.0	-4300.7	0.0	-9509.1	J	0.0
0.0	-3956.1	0.0	-220.3	J	0.0
0.0	-673.0	0.0	L	I	0.0
0.0	-673.0	0.0	-1514.2	J	0.0
0.0	-673.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	W-TR	I	263.9
0.0	0.0	0.0	-802.3	J	0.0
0.0	0.0	0.0	-802.3	J	263.9
0.0	0.0	0.0	WL	I	31.9
0.0	0.0	0.0	-173.9	J	31.9
0.0	0.0	0.0	-173.9	J	0.0
0.0	0.0	0.0	W-LO	I	0.0
45.9	0.0	0.0	0.0	0.0	96.3
20.8	0.0	0.0	0.0	0.0	21.3
6	1	1	D	I	0.0
0.0	-214.9	0.0	-220.3	J	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	L	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	W-TR	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	WL	I	0.0
0.0	0.0	0.0	0.0	0.0	0.0

0.0	0.0	0.0	J	0.0	0.0
20.8	0.0	0.0	W-LO	I	0.0
0.0	0.0	0.0	0.0	J	0.0
7	1	4	D	I	-8926.4
0.0	0.0	0.0	1097.5	J	0.0
0.0	0.0	0.0	1097.5	J	-10127.9
0.0	0.0	0.0	L	I	-1475.1
0.0	0.0	0.0	-484.1	J	0.0
0.0	0.0	0.0	-484.1	J	-1475.1
0.0	-553.5	0.0	W-TR	I	0.0
0.0	-584.7	0.0	2434.9	J	0.0
0.0	-584.7	0.0	6380.2	J	0.0
0.0	-63.8	0.0	WL	I	0.0
0.0	-63.8	0.0	443.4	J	0.0
0.0	-63.8	0.0	885.4	J	0.0
-136.3	0.0	0.0	W-LO	I	204.4
-167.5	0.0	0.0	0.0	J	0.0
-167.5	0.0	0.0	0.0	J	1257.3

BEAM ELEMENT FORCES & MOMENTS MIN/MAX SUMMARY BY PROPERTY PRINTOUT Unit System : kN , m

* LENGTH : the length of between two nodes

[SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION SHAPE : SB]
[SECTION SIZE] H:1.527 B:2.8
** MAX

ELEM	COM	LC	PT	AXIAL		
SHEAR-y		SHEAR-z	TORSION	MOMENT-y		
MOMENT-z		LENGTH				
6	AXL	D	1	I	0.0	0.0
-214.9		0.0	-220.3	0.0	2.05	
6	SHY	W-LO	1	I	0.0	20.8
0.0		0.0	0.0	21.3	2.05	
1	SHZ	D	1	J	0.0	0.0
214.9		0.0	-220.3	0.0	2.05	
1	TOR	D	1	J	0.0	0.0
214.9		0.0	-220.3	0.0	2.05	
1	MTY	W-TR	1	I	-25.6	0.0
0.0		0.0	0.0	0.0	2.05	
1	MTZ	W-LO	1	J	0.0	-20.8
0.0		0.0	0.0	21.3	2.05	

** MIN

ELEM	COM	LC	PT	AXIAL		
SHEAR-y		SHEAR-z	TORSION	MOMENT-y		
MOMENT-z		LENGTH				
1	AXL	W-TR	1	I	-25.6	0.0
0.0		0.0		0.0	2.05	
1	SHY	W-LO	1	J	0.0	-20.8
0.0		0.0		21.3	2.05	
6	SHZ	D	1	I	0.0	0.0
-214.9		0.0		-220.3	0.0	2.05
1	TOR	D	1	J	0.0	0.0
214.9		0.0		-220.3	0.0	2.05
1	MTY	D	1	J	0.0	0.0
214.9		0.0		-220.3	0.0	2.05
1	MTZ	W-TR	1	I	-25.6	0.0
0.0		0.0		0.0	2.05	

[SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION SHAPE : SB]
[SECTION SIZE] H:2.231 B:2.8
** MAX

ELEM SHEAR-y	COM	LC SHEAR-z	PT TORSION	AXIAL MOMENT-y
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MOMENT-z LENGTH

5 AXL	W-TR	1	I	263.9	0.0
0.0	0.0	-802.3		0.0	2.25
5 SHY	W-LO	1	I	0.0	45.9
0.0	0.0	0.0		96.3	2.25
2 SHZ	D	1	J	0.0	0.0
4008.0	0.0	-8850.5		0.0	2.25
5 TOR	D	1	I	0.0	0.0
-4300.7	0.0	-9509.1		0.0	2.25
2 MTY	W-TR	1	I	-289.5	0.0
0.0	0.0	802.3		0.0	2.25
2 MTZ	W-LO	1	J	0.0	-45.9
0.0	0.0	0.0		96.3	2.25

** MIN

ELEM	COM	LC	PT	AXIAL	
SHEAR-y		SHEAR-z	TORSION	MOMENT-y	
MOMENT-z	LENGTH				
-----	-----	-----	-----	-----	
2 AXL	W-TR	1	J	-289.5	0.0
0.0	0.0	802.3	0.0	2.25	
2 SHY	W-LO	1	J	0.0	-45.9
0.0	0.0	0.0	96.3	2.25	
5 SHZ	D	1	I	0.0	0.0
-4300.7	0.0	-9509.1	0.0	2.25	
5 TOR	D	1	I	0.0	0.0
-4300.7	0.0	-9509.1	0.0	2.25	
5 MTY	D	1	I	0.0	0.0
-4300.7	0.0	-9509.1	0.0	2.25	
2 MTZ	W-TR	1	I	-289.5	0.0
0.0	0.0	802.3	0.0	2.25	

[SECTION NAME : 코핑3 , SECTION ID : 3 , SECTION
SHAPE : SB]
[SECTION SIZE] H:3 B:2.8

** MAX

ELEM	COM	LC		PT		AXIAL
SHEAR-y		SHEAR-z		TORSION		MOMENT-y
MOMENT-z		LENGTH				

4	AXL	W-TR	1	J	263.9	0.0
0.0		0.0	-802.3		0.0	1.50
4	SHY	W-LO	1	I	0.0	68.1
0.0		0.0	0.0		181.8	1.50
3	SHZ	D	1	J	0.0	0.0
4316.9		0.0	-15094.2		0.0	1.50
4	TOR	D	1	I	0.0	0.0
-4609.6		0.0	-16191.7		0.0	1.50
3	MTY	W-TR	1	I	-289.5	0.0
0.0		0.0	802.3		0.0	1.50
3	MTZ	W-LO	1	J	0.0	-68.1
0.0		0.0	0.0		181.8	1.50

** MIN

ELEM	COM	LC	PT	AXIAL	
SHEAR-y		SHEAR-z	TORSION	MOMENT-y	
MOMENT-z		LENGTH			

3 AXL	W-TR	1	I	-289.5	0.0
0.0	0.0	802.3	0.0	1.50	
3 SHY	W-LO	1	J	0.0	-68.1
0.0	0.0	0.0	181.8	1.50	
4 SHZ	D	1	I	0.0	0.0
-4609.6	0.0	-16191.7	0.0	1.50	
4 TOR	D	1	I	0.0	0.0
-4609.6	0.0	-16191.7	0.0	1.50	
4 MTY	D	1	I	0.0	0.0
-4609.6	0.0	-16191.7	0.0	1.50	
3 MTZ	W-TR	1	I	-289.5	0.0
0.0	0.0	802.3	0.0	1.50	

[SECTION NAME : 기둥 , SECTION ID : 4 , SECTION
SHAPE : SR]
[SECTION SIZE] D:3

** MAX

ELEM COM	LC	PT	AXIAL		
SHEAR-y	SHEAR-z	TORSION	MOMENT-y		
MOMENT-z	LENGTH				

7 AXL	W-TR	1	J	0.0	0.0
-584.7	0.0	6380.2		0.0	6.93
7 SHY	D	1	I	-8926.4	0.0
0.0	0.0	1097.5		0.0	6.93
7 SHZ	D	1	I	-8926.4	0.0
0.0	0.0	1097.5		0.0	6.93

7 TOR	W-TR	1	J	0.0	0.0
-584.7	0.0	6380.2		0.0	6.93
7 MTY	W-TR	1	J	0.0	0.0
-584.7	0.0	6380.2		0.0	6.93
7 MTZ	W-LO	1	J	0.0	-167.5
0.0	0.0	0.0		1257.3	6.93

** MIN

ELEM COM	LC	PT	AXIAL
SHEAR-y	SHEAR-z	TORSION	MOMENT-y
MOMENT-z	LENGTH		

7 AXL	D	1	J	-10127.9	0.0
0.0	0.0	1097.5		0.0	6.93
7 SHY	W-LO	1	J	0.0	-167.5
0.0	0.0	0.0		1257.3	6.93
7 SHZ	W-TR	1	J	0.0	0.0
-584.7	0.0	6380.2		0.0	6.93
7 TOR	W-TR	1	J	0.0	0.0
-584.7	0.0	6380.2		0.0	6.93
7 MTY	L	1	I	-1475.1	0.0
0.0	0.0	-484.1		0.0	6.93
7 MTZ	D	1	J	-10127.9	0.0
0.0	0.0	1097.5		0.0	6.93

BEAM ELEMENT STRESSES DEFAULT PRINTOUT
Unit System : kN , m

ELEM MAT SEC LC PT AXIAL
SHEAR-y (+z)-BENDING-(-z) SHEAR-z (+y)-BENDING-(-y)

0.0	1	1	1	D	I				0.0	
	0.0	0.0	0.0	J	0.0	0.0	0.0		0.0	
	75.4	0.0	0.0	202.4	-202.4				0.0	
	0.0	0.0	0.0	L	I	0.0	0.0		0.0	
	0.0	0.0	0.0	J	0.0	0.0	0.0		0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
				W-TR	I					
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		-6.0	
				J	-6.0				0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
				WL	I	0.0	0.0		0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
	0.0	0.0	0.0	J	0.0	0.0	0.0		0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
				W-LO	I				0.0	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
				J	0.0	0.0	0.0		-7.3	
	0.0	-10.7	10.7	0.0	0.0	0.0	0.0		0.0	
0.0	2	1	2	D	I				0.0	
	879.7	0.0	0.0	J	94.8	-94.8			0.0	
	962.4	0.0	0.0	3810.3	-3810.3				0.0	
	192.6	0.0	0.0	L	I	0.0	0.0		0.0	
	192.6	0.0	0.0	J	0.0	0.0	0.0		0.0	
	192.6	0.0	0.0	0.0	777.0	-777.0			0.0	
				W-TR	I					
0.0	0.0	0.0	0.0	0.0	-345.4	345.4			-46.4	
				J	-46.4				0.0	
	0.0	0.0	0.0	-345.4	345.4				0.0	
				WL	I					
0.0	0.0	0.0	0.0	0.0	-74.9	74.9			-5.1	
				J	-5.1				0.0	
	0.0	0.0	0.0	-74.9	74.9				0.0	
				W-LO	I				0.0	
-5.0	0.0	-7.3	7.3	J	0.0	0.0	0.0		-11.0	
	0.0	-33.0	33.0	0.0	0.0	0.0	0.0		0.0	
0.0	3	1	3	D	I				0.0	
	715.7	0.0	0.0	J	2107.3	-2107.3			0.0	
	770.9	0.0	0.0	3593.9	-3593.9				0.0	
	143.2	0.0	0.0	L	I	0.0	0.0		0.0	
	143.2	0.0	0.0	J	429.7	-429.7			0.0	
	143.2	0.0	0.0	0.0	716.1	-716.1			0.0	
				W-TR	I					
0.0	0.0	0.0	0.0	0.0	-191.0	191.0			-34.5	

		W-LO	I	0.0	
-25.7	0.0	-77.1	77.1	0.0	0.0
		J	0.0	-31.6	
0.0	-474.3	474.3	0.0	0.0	

BEAM ELEMENT STRESSES MIN/MAX SUMMARY BY
PROPERTY PRINTOUT Unit System : kN , m

[SECTION NAME : 코핑1 , SECTION ID : 1 , SECTION
SHAPE : SB]
[SECTION SIZE] H:1.527 B:2.8
** MAX

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
-----	-----	---	-----	-----
-----	-----	---	-----	-----
6 AXL	D	1 I	0.0	0.0
-75.4	0.0	202.4	-202.4	
6 SHY	W-LO	1 I	0.0	7.3
0.0	-10.7	10.7	0.0	
1 SHZ	D	1 J	0.0	0.0
75.4	0.0	202.4	-202.4	
1 BY+	D	1 I	0.0	0.0
0.0	0.0	0.0	0.0	
1 BY-	W-LO	1 J	0.0	-7.3
0.0	-10.7	10.7	0.0	
1 BZ+	D	1 J	0.0	0.0
75.4	0.0	202.4	-202.4	
1 BZ-	D	1 I	0.0	0.0
0.0	0.0	0.0	0.0	

** MIN

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
-----	-----	---	-----	-----
-----	-----	---	-----	-----
1 AXL	W-TR	1 I	-6.0	0.0
0.0	0.0	0.0	0.0	
1 SHY	W-LO	1 J	0.0	-7.3
0.0	-10.7	10.7	0.0	
6 SHZ	D	1 I	0.0	0.0
-75.4	0.0	202.4	-202.4	
1 BY+	W-LO	1 J	0.0	-7.3
0.0	-10.7	10.7	0.0	
1 BY-	W-TR	1 I	-6.0	0.0
0.0	0.0	0.0	0.0	
1 BZ+	W-TR	1 I	-6.0	0.0
0.0	0.0	0.0	0.0	
1 BZ-	D	1 J	0.0	0.0
75.4	0.0	202.4	-202.4	

[SECTION NAME : 코핑2 , SECTION ID : 2 , SECTION
SHAPE : SB]
[SECTION SIZE] H:2.231 B:2.8
** MAX

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
-----	-----	---	-----	-----
-----	-----	---	-----	-----
5 AXL	W-TR	1 I	42.2	0.0
0.0	0.0	345.4	-345.4	
5 SHY	W-LO	1 I	0.0	11.0
0.0	-33.0	33.0	0.0	
2 SHZ	D	1 J	0.0	0.0
962.4	0.0	3810.3	-3810.3	
5 BY+	W-TR	1 I	42.2	0.0
0.0	0.0	345.4	-345.4	
2 BY-	W-LO	1 J	0.0	-11.0
0.0	-33.0	33.0	0.0	
5 BZ+	D	1 I	0.0	0.0
-1032.7	0.0	4093.8	-4093.8	
2 BZ-	W-TR	1 I	-46.4	0.0
0.0	0.0	-345.4	345.4	

** MIN

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
-----	-----	---	-----	-----
-----	-----	---	-----	-----
2 AXL	W-TR	1 J	-46.4	0.0
0.0	0.0	-345.4	345.4	
2 SHY	W-LO	1 J	0.0	-11.0

0.0	-33.0	33.0	0.0	0.0
5 SHZ	D	1 I	0.0	0.0
-1032.7	0.0	0.0	4093.8	-4093.8
2 BY+	W-LO	1 J	0.0	-11.0
0.0	-33.0	33.0	0.0	
2 BY-	W-TR	1 I	-46.4	0.0
0.0	0.0	0.0	-345.4	345.4
2 BZ+	W-TR	1 I	-46.4	0.0
0.0	0.0	0.0	-345.4	345.4
5 BZ-	D	1 I	0.0	0.0
-1032.7	0.0	0.0	4093.8	-4093.8

[SECTION NAME : 코핑3 , SECTION ID : 3 , SECTION
SHAPE : SB]
[SECTION SIZE] H:3 B:2.8
** MAX

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
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4 AXL	W-TR	1 J	31.4	0.0
0.0	0.0	191.0	-191.0	
4 SHY	W-LO	1 I	0.0	12.2
0.0	-46.4	46.4	0.0	
3 SHZ	D	1 J	0.0	0.0
770.9	0.0	3593.9	-3593.9	
4 BY+	W-TR	1 I	31.4	0.0
0.0	0.0	191.0	-191.0	
3 BY-	W-LO	1 J	0.0	-12.2
0.0	-46.4	46.4	0.0	
4 BZ+	D	1 I	0.0	0.0
-823.1	0.0	3855.2	-3855.2	
3 BZ-	W-TR	1 I	-34.5	0.0
0.0	0.0	-191.0	191.0	

** MIN

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
-----	-----	---	-----	-----
-----	-----	---	-----	-----
3 AXL	W-TR	1 I	-34.5	0.0
0.0	0.0	-191.0	191.0	
3 SHY	W-LO	1 J	0.0	-12.2
0.0	-46.4	46.4	0.0	
4 SHZ	D	1 I	0.0	0.0
-823.1	0.0	3855.2	-3855.2	
3 BY+	W-LO	1 J	0.0	-12.2
0.0	-46.4	46.4	0.0	
3 BY-	W-TR	1 I	-34.5	0.0
0.0	0.0	-191.0	191.0	
3 BZ+	W-TR	1 I	-34.5	0.0
0.0	0.0	-191.0	191.0	
4 BZ-	D	1 I	0.0	0.0
-823.1	0.0	3855.2	-3855.2	

[SECTION NAME : 기둥 , SECTION ID : 4 , SECTION
SHAPE : SR]
[SECTION SIZE] D:3
** MAX

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
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7 AXL	W-TR	1 J	0.0	0.0
-110.3	0.0	-2407.0	2407.0	
7 SHY	D	1 I	-1262.8	0.0
0.0	0.0	-414.0	414.0	
7 SHZ	D	1 I	-1262.8	0.0
0.0	0.0	-414.0	414.0	
7 BY+	W-TR	1 I	0.0	0.0
-104.4	0.0	-918.6	918.6	
7 BY-	W-LO	1 J	0.0	-31.6
0.0	-474.3	474.3	0.0	
7 BZ+	L	1 I	-208.7	0.0
0.0	0.0	182.6	-182.6	
7 BZ-	W-TR	1 J	0.0	0.0
-110.3	0.0	-2407.0	2407.0	

** MIN

ELEM COM	LC	PT	AXIAL	SHEAR-y
SHEAR-Z	(+y)-BENDING-(-y)	(+z)-BENDING-(-z)		
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7 AXL	D	1 J	-1432.8	0.0
0.0	0.0	-414.0	414.0	
7 SHY	W-LO	1 J	0.0	-31.6
0.0	-474.3	474.3	0.0	
7 SHZ	W-TR	1 J	0.0	0.0
-110.3	0.0	-2407.0	2407.0	
7 BY+	W-LO	1 J	0.0	-31.6
0.0	-474.3	474.3	0.0	
7 BY-	D	1 J	-1432.8	0.0
0.0	0.0	-414.0	414.0	

7 BZ+	W-TR	1 J	0.0	0.0
-110.3	0.0	0.0	-2407.0	2407.0
7 BZ-	L	1 I	-208.7	0.0
0.0	0.0	0.0	182.6	-182.6