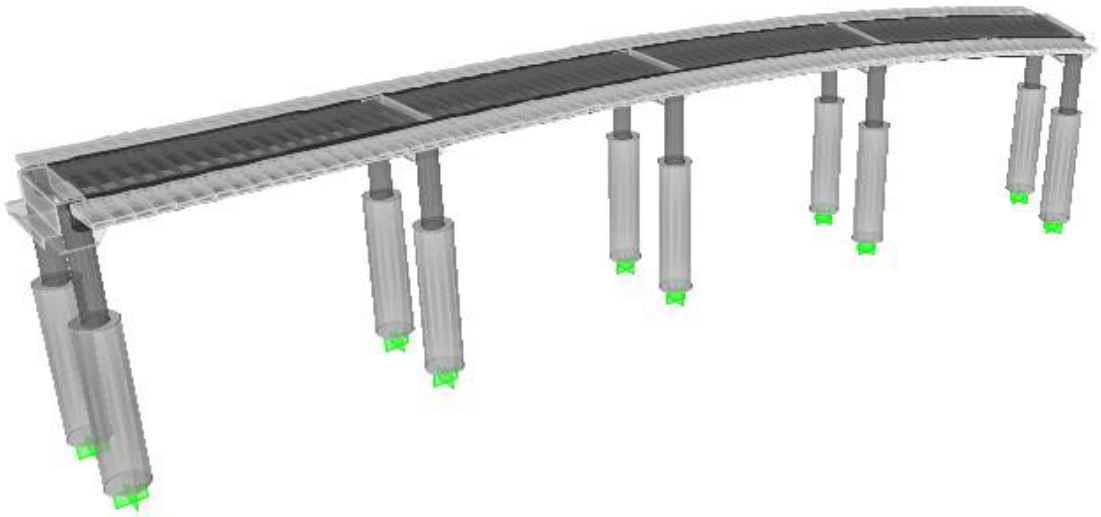
DETAILED DESIGN FOR BALARAJA FLYOVER

NORTH JAVA CORRIDOR FLYOVER PROJECT

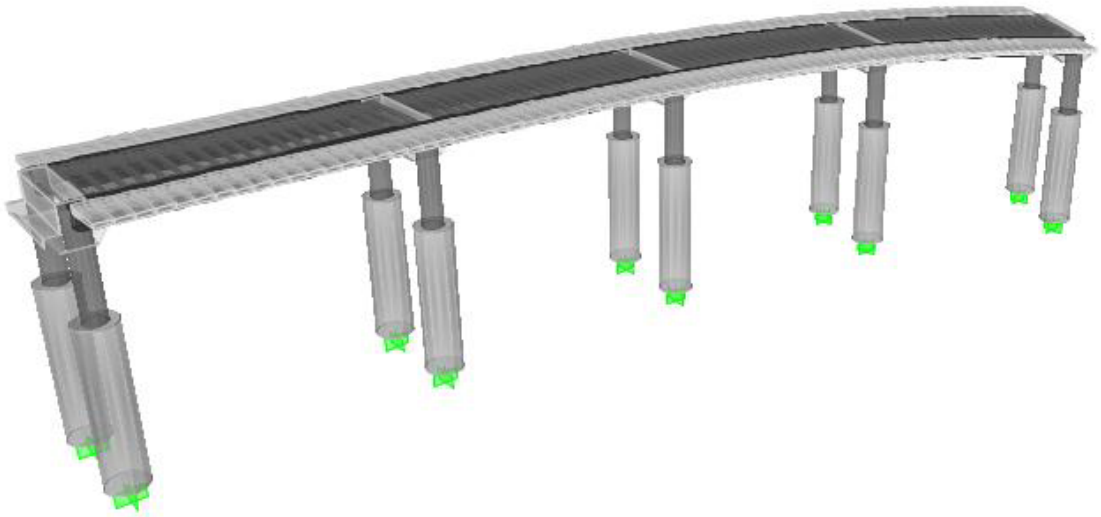


KATAHIRA & ENGINEERS INTERNATIONAL

PART 1

BALARAJA FLYOVER P6-A2

NORTH JAVA CORRIDOR FLYOVER PROJECT



KATAHIRA & ENGINEERS
INTERNATIONAL

Contents

CHAPTER 1 DESIGN CONDITIONS

1.1 DESIGN CONDITION

(1) Road Name : North Java Corridor (Serang – Balaraja – Tangerang)

(2) Bridge Name : Balaraja Flyover

(3) Road Class : 1

(4) Bridge Type : Pre-stressed Reinforcement Concrete (PRC) 3 span continuous Double Trapezoid Girder (A1 – P3) and PRC 4 span continuous Double Trapezoid Girder (P6 – A2)

(5) Design Speed : 40 km/hr

(6) Bridge Width : 13.0m (0.75m+5.5m+0.5m+5.5m+0.75m)

(7) Pavement : Asphalt, thickness=75mm and additional 50mm for future resurfacing

(8) Bridge Angle : 90 degree

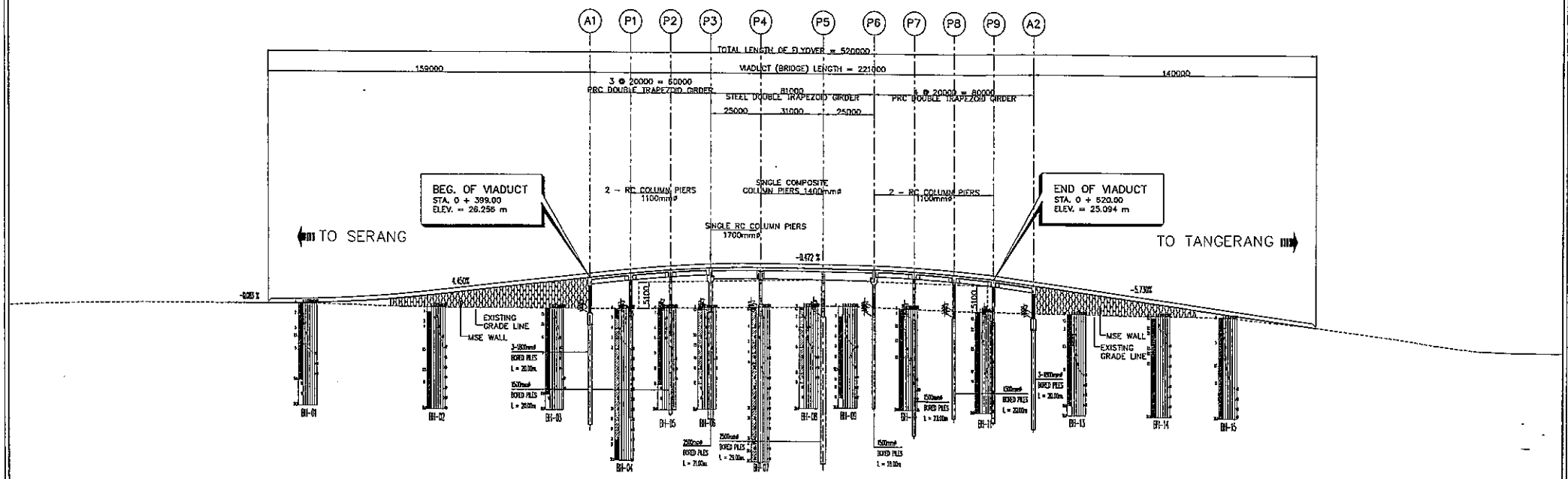
(9) Horizontal curvature : A1 – P3, R=∞ and P6 – A2, R=85m

(10) Vertical Grade : A1 – P3, I = 4.436% ↙ and P6 – A2, I = 5.772% ↘

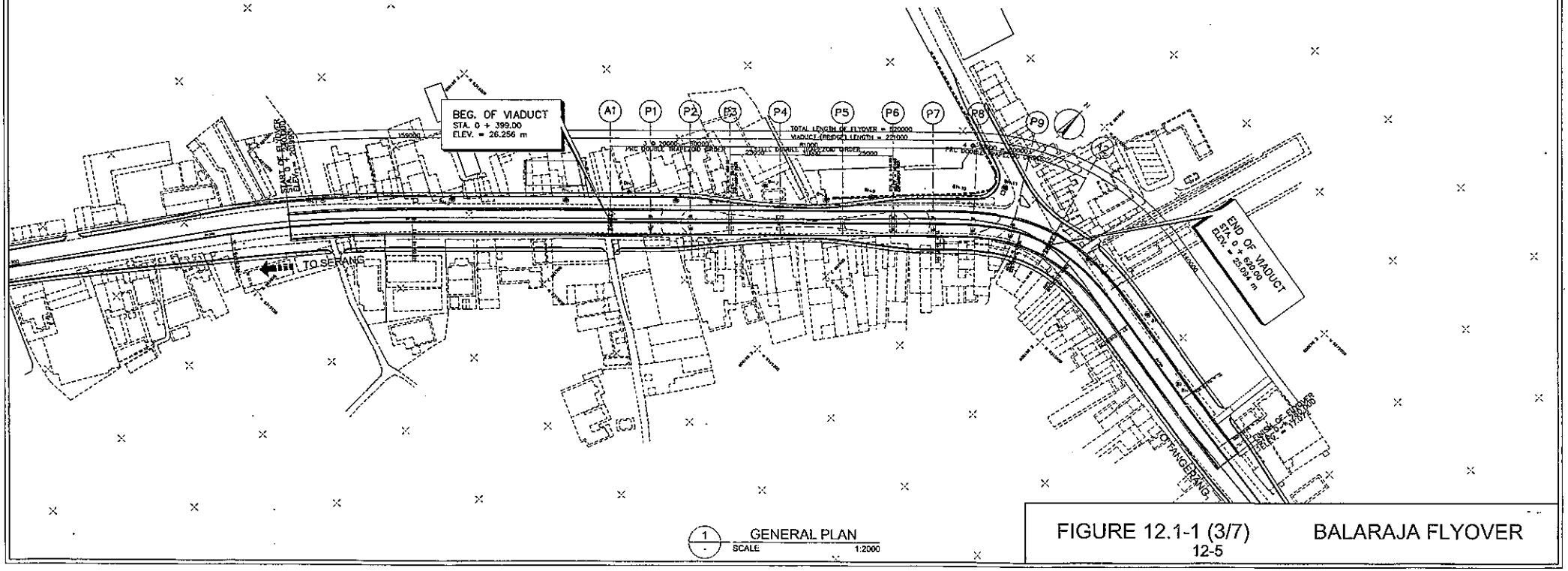
(11) Cross Slope : A1 – P3, I = 2% and P6 – A2, I = 2% to 5.7%

(12) Span Composition : A1 – P3, 3@20m and P6 – A2, 4@20m

1.2 GENERAL VIEW



2 GENERAL ELEVATION
SCALE H = 1 : 2000; V = 1 : 800



1 GENERAL PLAN
SCALE 1:2000

FIGURE 12.1-1 (3/7) BALARAJA FLYOVER

1.3 MATERIALS PROPERTIES AND ALLOWABLE STRESS

1.3.1 Materials Properties

(1) Concrete

Concrete Compressive strength: The 28-days compressive strength and corresponding elastic modulus Ec, shall be as shown below:

Concrete Class	Characteristic Compressive Strength MPa	Application of Structure	Elastic Modulus Ec (x 10^4 MPa)
A-2	35	PRC Girder and Slab	3.18
B-1	30	Curb, wheel guard, railing and attachment etc.	2.94

The coefficient of thermal expansion shall be 1.0 x 10^5 (per deg Celsius).

(2) Reinforcing Steel

Type	Grade	Yield Point (N/mm^2)	Application standard		
			SII	JIS	BS
Round Bars	SR 24	240	SII 0136	G 3112	BS 4449
Deformed Bars	SD 40	390	SII 0136	G 3112	BS 4449

(3) Pre-stressing Tendons

The type of pre-stressing of tendons shown below shall be used.

Notation	Utilization	Nominal Diameter (mm)	Yield Strength (kg/mm^2)	Braking Strength (kg/mm^2)	Application Standard	
					JIS	ASTM
PC 7 Wire Strand SWPR 7B	PRC Girder	T 12.7	160	190	G 3536	A 416
PC 19 Wire Strand SWPR 19	Diaphragm of PC I-Girder and T-Girder	T 21.8	160	190	G 3536	A 416

Modulus of elasticity: 2.0 x 10^5 MPa
Coefficient of thermal expansion = 1.2 x 10^5 (per deg Celsius).

1.3.2 Allowable Stress

(1) Concrete

(a) Method of Crack Width Control

1.3.2 Allowable Stress

(1) Concrete

(a) Method of Crack Width Control

Partial Pre-stressed Concrete Member (Method of Crack Width Control)

	Bending Moment		Shear & Torsional Force	
	Verified Items	Limited Value	Verified Items	Limited Value
Method A	Crack Width	0.0035 C C: Cover	Diagonal Tensile Stress of Concrete	Design Tension Strength of Concrete
Method B	Concrete Tensile Stress	ftk= k1x0.23xfck^(2/3)/gc	Diagonal Tensile Stress of Concrete	Design Tension Strength of Concrete
Method C	Concrete Tensile Stress	None of Tensile Stress	Diagonal Tensile Stress of Concrete	Design Tension Strength of Concrete

For Girder

D (Permanent Loads)	Method B	Verified the Concrete Tensile Stress	Less than 1.39 N/mm2
D+T (Permanent Loads + Temperature effect)			
D+L (Permanent Loads + Live Load)	Method A	Crack Width Control	0.0035 C C: Cover
D+L+T			

ftk=k1x0.23xfck^(2/3)/gc=0.6/(1.2^(1/3))x0.23x35^(2/3)/1.0=1.39N/mm2

For Slab

D (Permanent Loads)	Method C	Verified the Concrete Tensile Stress	None of Tensile Stress
D+T (Permanent + Temperature effect)	Method B	Verified the Concrete Tensile Stress	Less than 2.21 N/mm2
D+L (Permanent + Live Load)			
D+L+T (Permanent + Live + Temperature)			
D+W (Permanent + Wind Load)	Method A	Crack Width Control	0.0035 C C: Cover
D+T+C (Permanent + Live + Collision Load)			

ftk=k1x0.23xfck^(2/3)/gc=0.6/(0.3^(1/3))x0.23x35^(2/3)/1.0=2.21N/mm2

(b) Allowable Stress

Designation			Concrete Strength (MPa)				
			30.0	35.0	40.0	45.0	50.0
Compression Stress due to Bending	Immediately after pre-stressing	For Rectangular sections	15.0	17.0	19.0	21.0	21.0
		For T and Box sections	14.0	16.0	18.0	20.0	20.0
	Other Case	For Rectangular sections	12.0	13.5	15.0	17.0	17.0
		For T and Box sections	11.0	12.5	14.0	16.0	16.0
Compression Stress due to Axial Load	Immediately after pre-stressing		12.0	12.5	14.5	16.0	18.0
	Other Case		8.5	9.5	11.0	13.5	13.5
Tensile Stress due to Bending	Immediately after pre-stressing		1.2	1.3	1.5	1.8	1.8
	In case without Traffic Load		0.0	0.0	0.0	0.0	0.0
	Slabs and Joints between Pre-cast Segments		0.0	0.0	0.0	0.0	0.0
	Other Case		1.2	1.3	1.5	1.8	1.8
Tensile Stress due to Axial Load			0.0	0.0	0.0	0.0	0.0
Shear Stress	Shear and Torsion Considered Separately		0.8	0.9	1.0	1.2	1.2
	Shear and Torsion Considered Simultaneously		1.1	1.2	1.3	1.5	1.5
Bond Stress	Round Bars		0.9	0.9	1.0	1.0	1.0
	Deformed Bars		1.8	1.9	2.0	2.0	2.0

(2) Reinforcing Steel

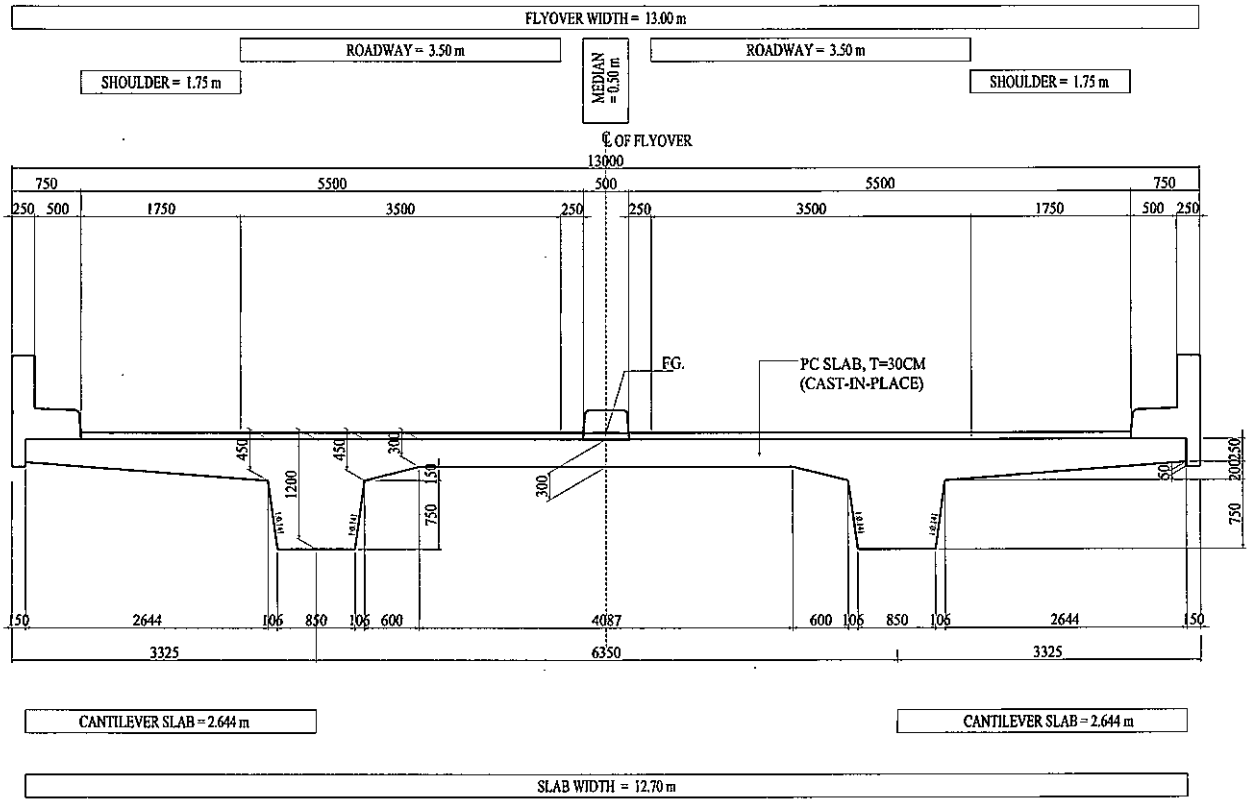
Grade	Yield strength fsy (MPa)	Allowable stress (MPa)	
		Tension $0.5 \times fsy \leq 170$	Compression $0.5 \times fsy \leq 110$
BJTD 40	400	170	110
BJTD 24	240	120	110

(3) Pre-stressing Tendons

	Nominal diameter	During pre-stressing	After pre-stressing	Under design load
PC wire SWPR 1 A	Ø 7	1215	1085	930
PC wire SWPR 1 A	Ø 8	1170	1050	900
PC 7-wire Strand SWPR 7 A	T 12.4	1350	1225	1050
PC 7-wire Strand SWPR 7 B	T 12.7	1440	1330	1140
PC 7-wire Strand SWPR 7 B	T 15.2	1440	1330	1140
PC 19-wire Strand SWPR 19	T 19.3	1440	1330	1140
PC bar SBPR 785 / 1030	Ø	720	680	600

1.4 TYPICAL CROSS SECTION

1.4. TYPICAL CROSS SECTION



1.5 CODES AND STANDARDS

Design Codes and Standards are as followings:

- Bridge Design Code, Draft, Volume 1 and Volume 2 – Bridge Management System 1992, Direktorat Jenderal Bina Marga Departemen Pekerjann Umum.
- Bridge Design Manual, Draft, Volume 1 and Volume 2 – Bridge Management System 1992, Direktorat Jenderal Bina Marga Departemen Pekerjann Umum.
- Pembebanan untuk jembatan, RSNI4.

  (Loading for Bridges)
- Standar perencanaan ketahanan gempa untuk jembatan, SNI.

  (Design Standard of Earthquake Resistance for Bridges)
- Perencanaan struktur beton untuk jembatan, RSNI

  (Design of Concrete Structure for Bridge)
- Perencanaan struktur baja untuk jembatan, ASNI4

  (Design of Steel Structure for Bridge)
- AASHTO LRFD Bridge Design Specifications, 3rd Edition.

For design requirements not covered by the above Codes and Standards the following references will be used as required:

- Japanese Specifications for Highway Bridges
- AS 5100, Bridge Design, Australian Standard, 2004
- EN 1994 Eurocode 4: Design of Composite Steel and Concrete Structures
- FHWA-IF-99-025, "Drilled Shafts: Construction Procedures and Design Methods", 1999
- FHWA-NHI-00-043, "Mechanically Stabilized Earth Walls and Reinforced Soil Slopes, Design & Construction Guidelines", 2001
- NCHRP Report 529, "Guidelines and Recommended Standard for Geofoam Applications in Highway Embankments", Transport Research Board, 2004

CHAPTER 2 DESIGN OF MAIN GIRDER

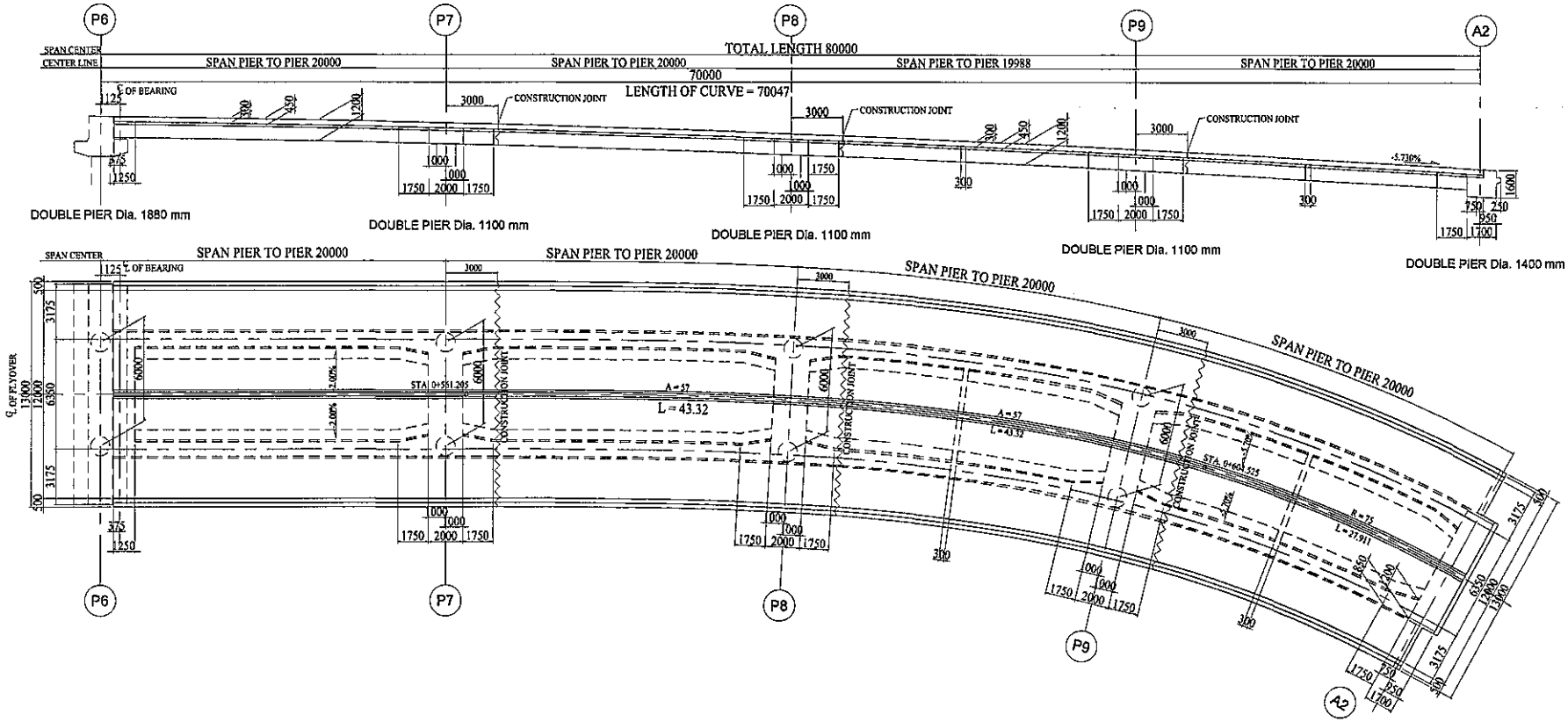
2.1 STRUCTURAL DIMENSIONS AND ANALYSIS MODEL

2.1.1 Structural Dimensions

CHAPTER 2 DESIGN OF MAIN GIRDER

2.1 STRUCTURAL DIMENSIONS AND ANALYSIS MODEL

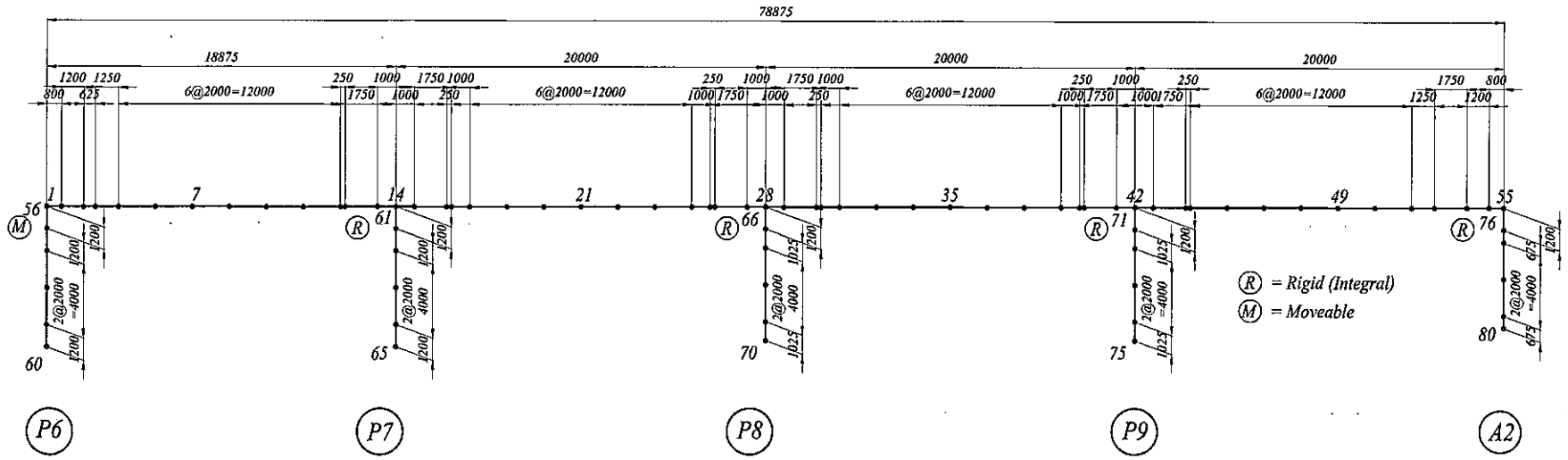
2.1.1 Structural Dimensions



2.1.2 Analysis Model

(1) Analysis Model

STRUCTURAL ANALYSIS MODEL
. (BALARAJA FLYOVER 4 SPAN CONTINUOUS P6-A2 B= 13.0m 2 Columns)



2 RC columns, θ 1100 mm	2 RC columns, θ 1100 mm	2 RC columns, θ 1100 mm	2 RC columns, θ 1100 mm	2 RC columns, θ 1400 mm
2 nos. θ 1500 mm Bored Piles	2 nos. θ 1500 mm Bored Piles	2 nos. θ 1500 mm Bored Piles	2 nos. θ 1500 mm Bored Piles	3 nos. θ 1800 mm Bored Piles

Spring Constant at bottom of Pier

Design Section	Kx (kN/m)	Ky (kN/m)	Kθ (kN/rad)	Kxθ (kN/rad)
60	7.34×10^4	1.60×10^6	6.06×10^6	-4.26×10^5
65	7.34×10^4	1.60×10^6	6.06×10^6	-4.26×10^5
70	7.34×10^4	1.60×10^6	6.06×10^6	-4.26×10^5
75	7.34×10^4	1.60×10^6	6.06×10^6	-4.26×10^5
80	1.81×10^5	3.25×10^6	1.77×10^7	-1.12×10^6

(2) Structural Dimension of Abutment and Pier

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

	DESIGNED BY	CHECKED BY	SUBMITTED BY
Name	A. GOURLEY	T. OKUMURA	M. KIUCHI
Sign			
Date			

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

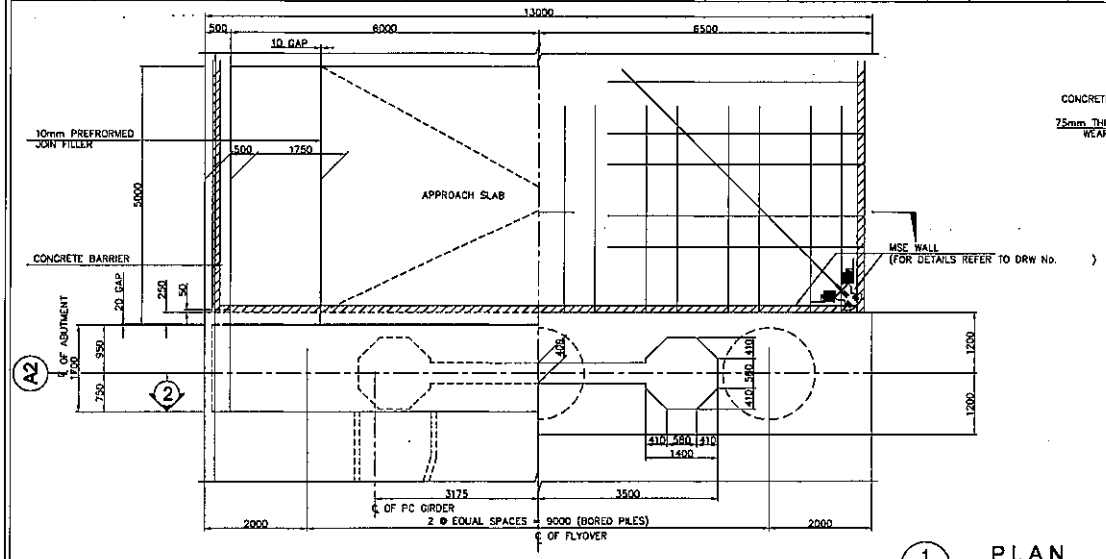
APPROVED BY: Ir. HERRY VAZA M,Eng.Sc (NIP. : 110038400) — Sign — Date

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : 1 : 100 / 1 : 40 / FULL SIZE A3

DRAWING TITLE :
ABUTMENT LAYOUT & DIMENSIONS (ABUT. A2)

DRAWING NO : BSB-000
SHEET NO : 00 / 000



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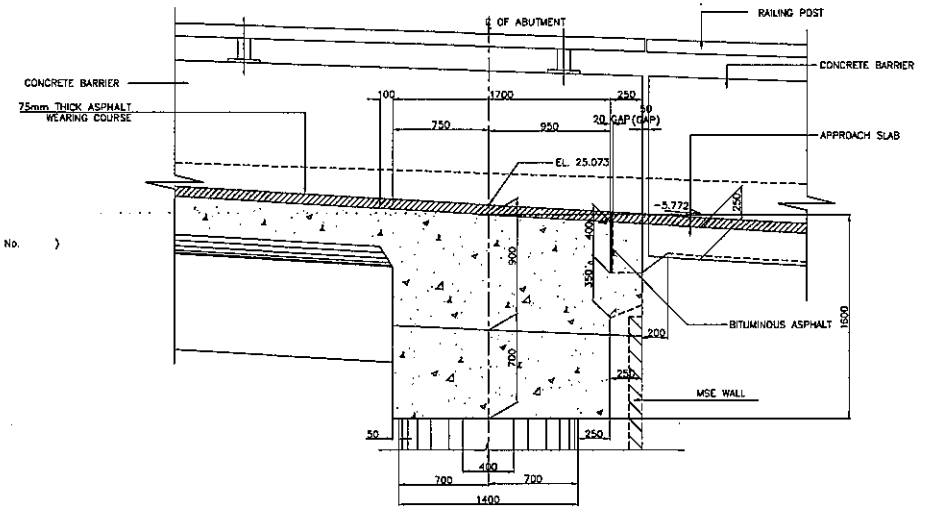
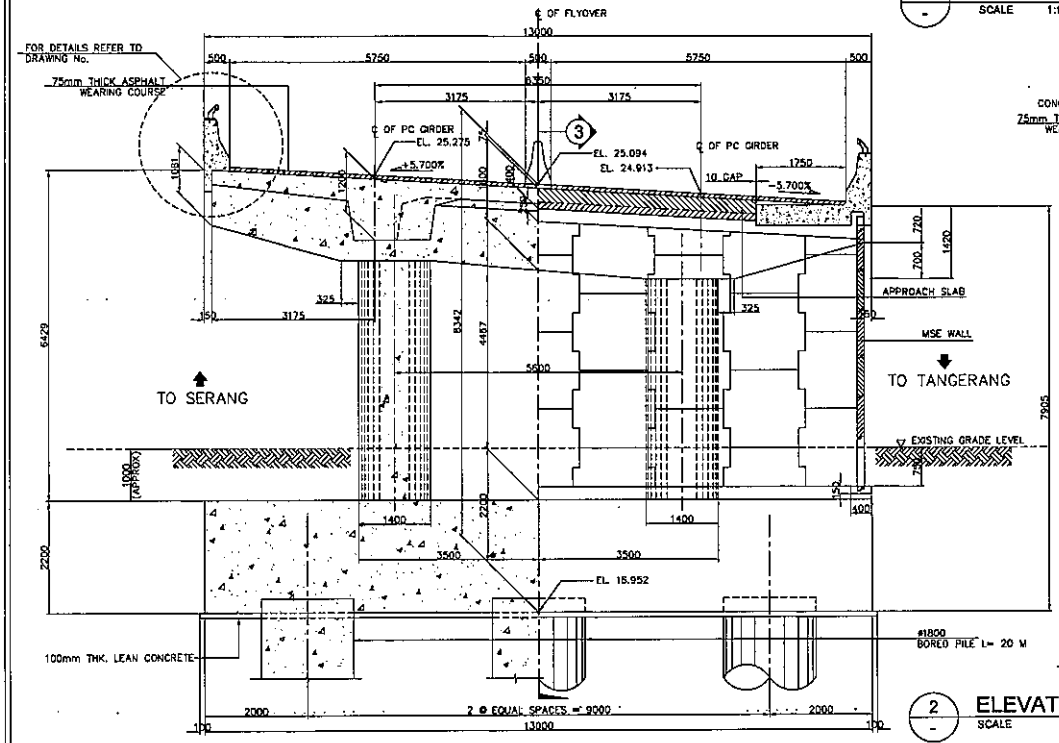


4 — DETAIL — SCALE 1:40



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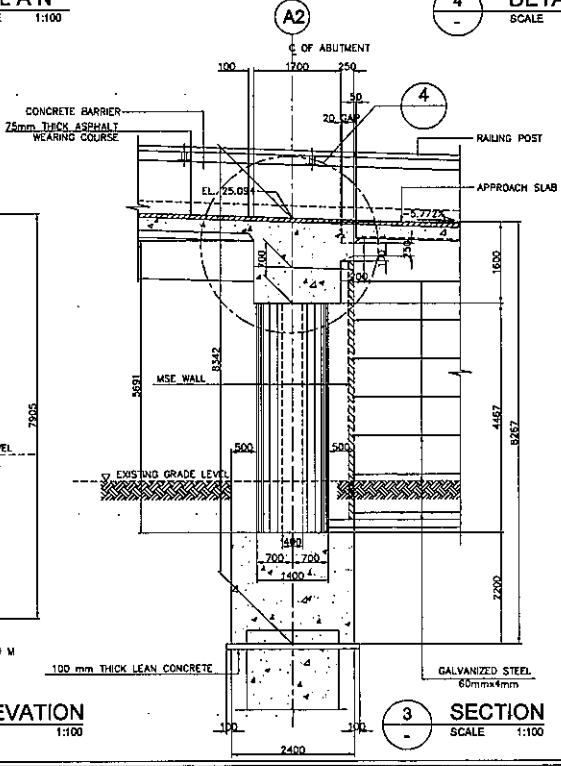

3 — SECTION — SCALE 1:100

NOTES :
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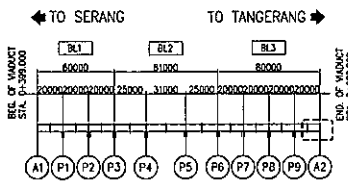
2. ELEVATIONS ARE IN METERS



KEY PLAN — SCALE 1:4000

JAPAN INTERNATIONAL COOPERATION AGENCY / KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY
	Name: A. GOURLEY	Name: S. GOSE	Name: M. KIUCHI
	Sign:	Sign:	Sign:
	Date:	Date:	Date:

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

APPROVED BY: Ir. HERRY VAZA M,Eng.Sc (NIP. : 110038400) Sign: Date:

PROJECT AND LOCATION :
DETAILED DESIGN STUDY OF
NORTH JAVA CORRIDOR FLYOVER PROJECT
BALARAJA FLYOVER - CONTRACT PACKAGE 1
(MERAK - BALARAJA)
BANTEN PROVINCE

SCALE : 1 : 40 / 1 : 60 / 1 : 150 / 1 : 4000 — FULL SIZE A3

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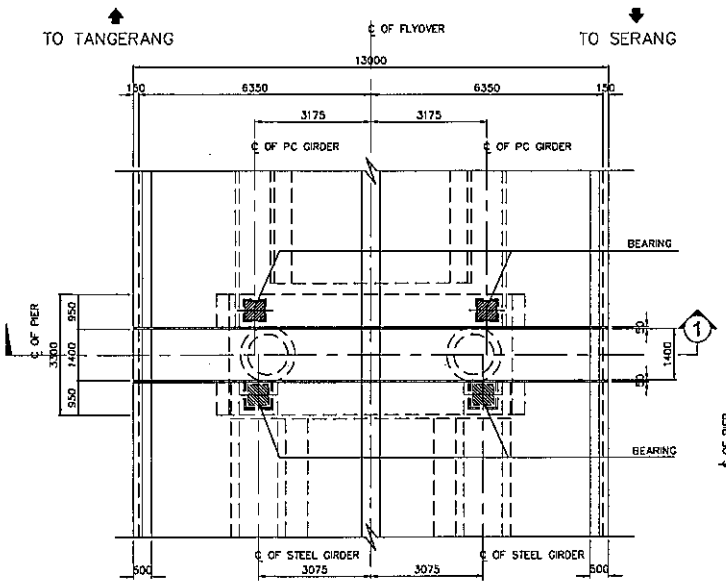
PIER LAYOUT
P6 (EXP.)

DRAWING NO : 000-000
SHEET NO : 0 / 000



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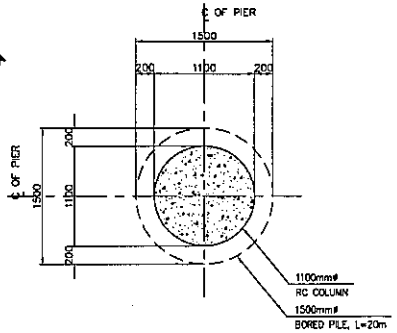

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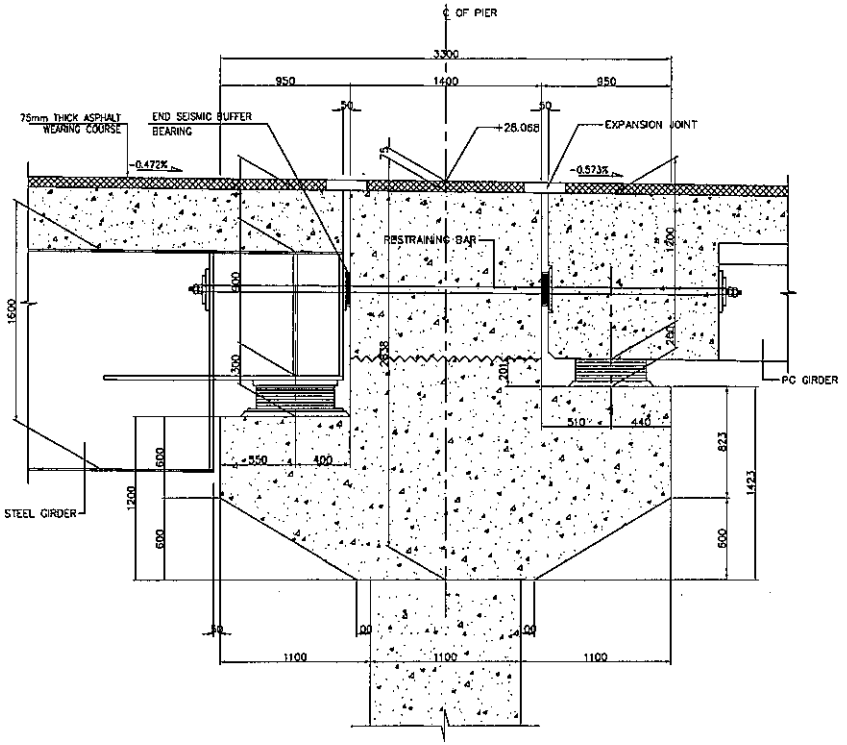

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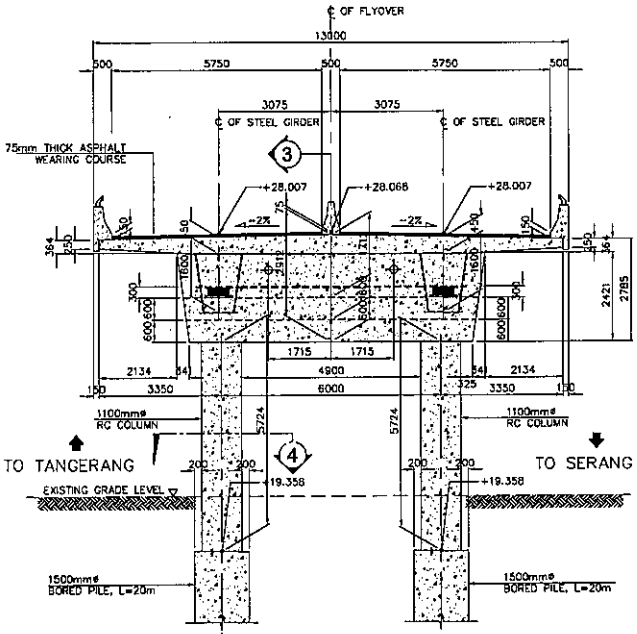

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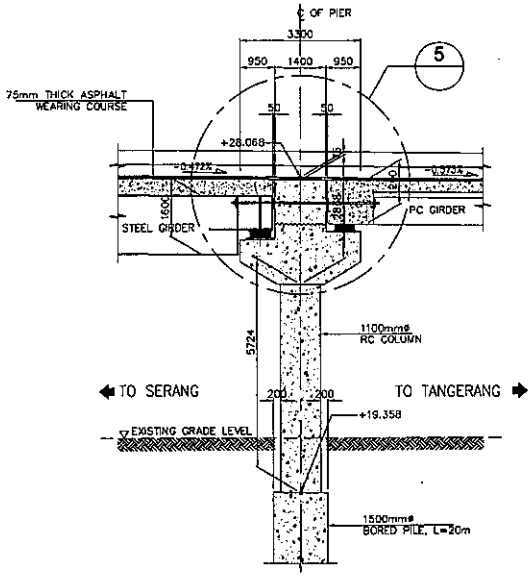

3 - SECTION
SCALE : 1:150

NOTES :
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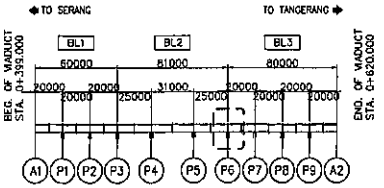

KEY PLAN
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	Name: A. GOURLEY	Name: S. GOSE	Name: M. KIUCHI		DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 40 1 : 60 1 : 150 1 : 2000 FULL SIZE A3	PIER LAYOUT P7	000-000 SHEET NO : 0 / 000
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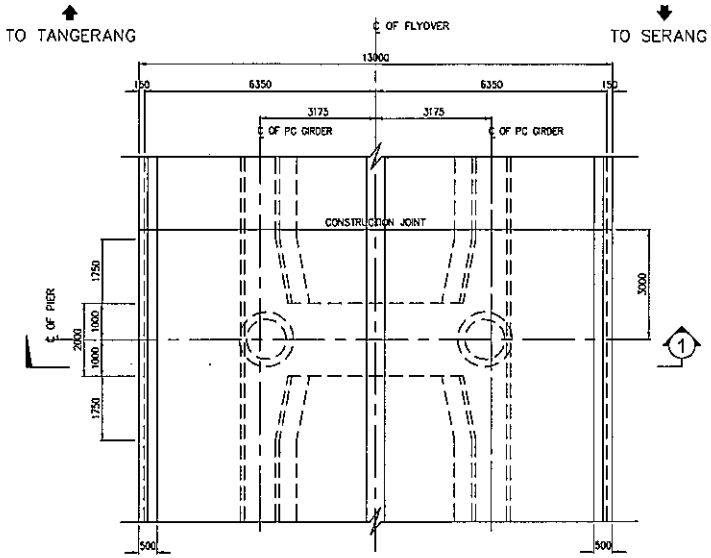
	Date	Date	Date	Sign / Date				



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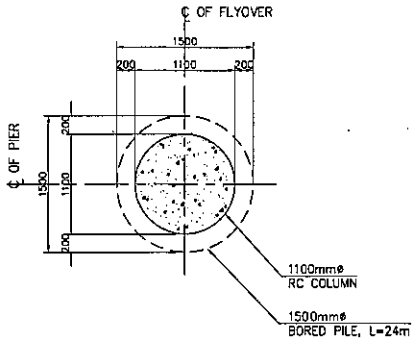

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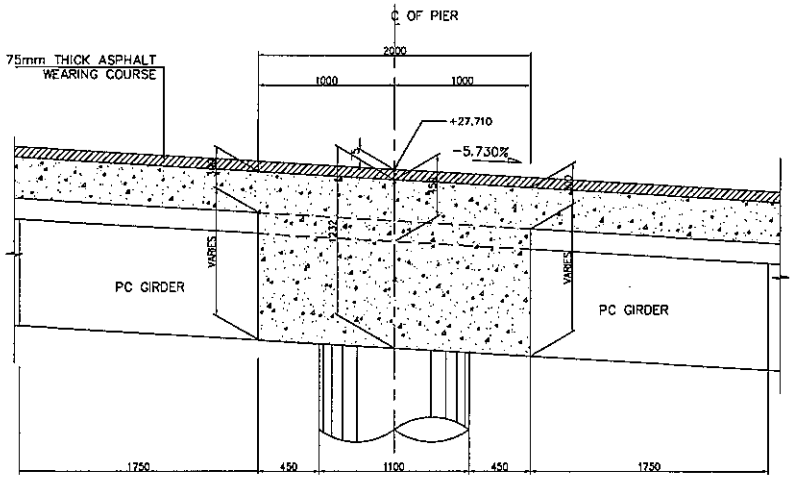

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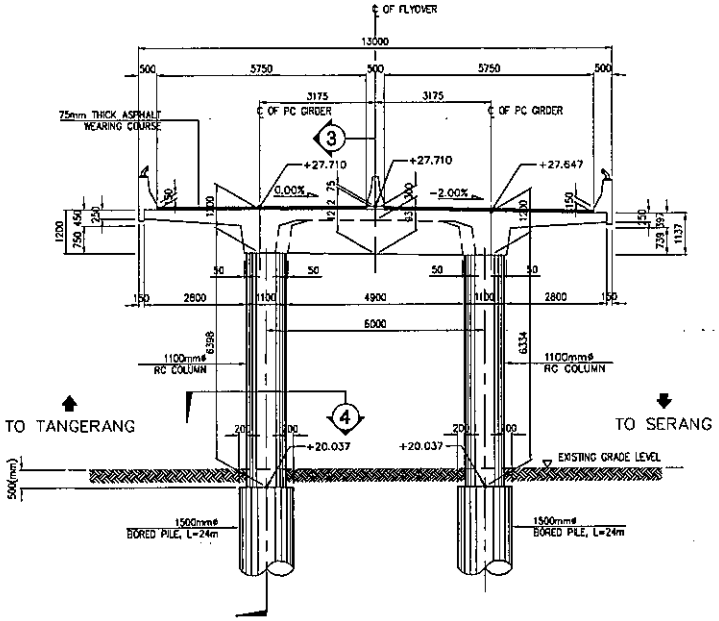

1 ELEVATION
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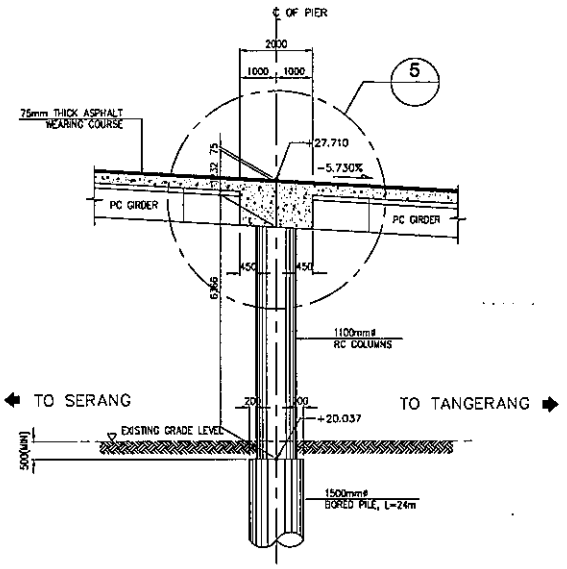

3 SECTION
SCALE : 1:150

NOTES :
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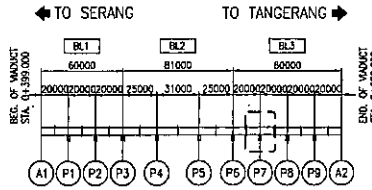

* PROFIL
SCALE : 1:2000

JAPAN INTERNATIONAL COOPERATION AGENCY / KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNED BY	CHECKED BY	SUBMITTED BY	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	PROJECT AND LOCATION :	SCALE :	DRAWING TITLE :	DRAWING NO :
	Name: A. GOURLEY	Name: S. GOSE	Name: M. KIUCHI	APPROVED BY: Ir. HERRY VAZA M,Eng.Sc NIP. : 110038400	DETAILED DESIGN STUDY OF NORTH JAVA CORRIDOR FLYOVER PROJECT BALARAJA FLYOVER - CONTRACT PACKAGE 1 (MERAK - BALARAJA) BANTEN PROVINCE	1 : 40 1 : 60 1 : 150 1 : 2000 FULL SIZE A3	PIER LAYOUT P8,P9 (FIXED)	000-000 SHEET NO : 0 / 000
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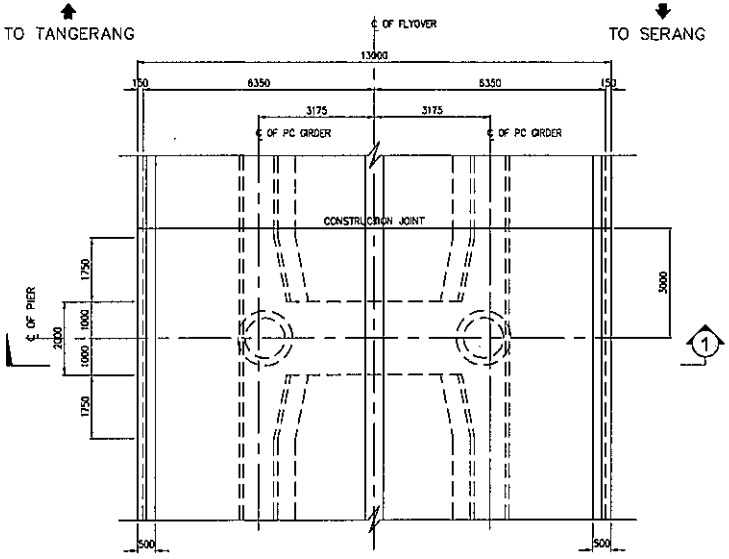
	Date:	Date:	Date:	Date:				

TO TANGERANG

TO SERANG



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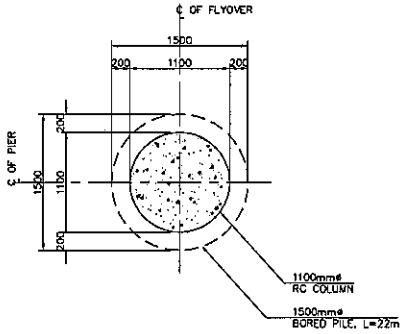
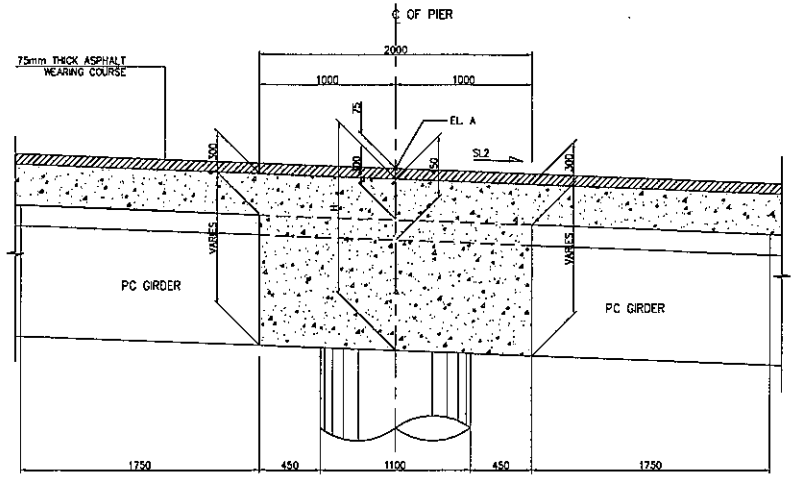
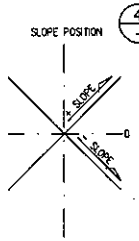


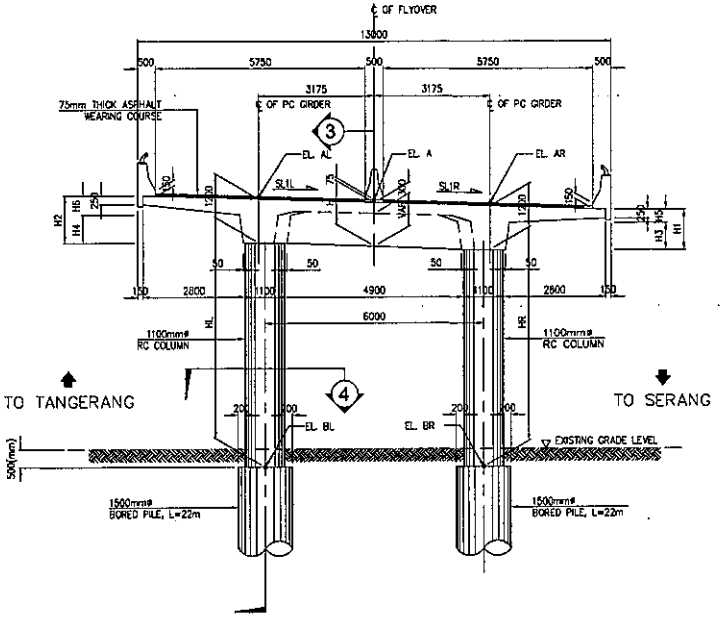
4 SECTION
SCALE : 1:60

SCHEDULE OF PIERS (FIXED)																	
PIER	EL A	EL AL	EL AR	EL BL	EL BR	SL 1L	SL 1R	SL2	H	HL	HR	H1	H2	H3	H4	H5	H6
P8	27.090	27.203	26.993	19.756	19.756	+3.057%	-3.057%	-5.730%	1200	6148	5952	1103	1297	734	765	369	531
P9	28.207	26.371	26.043	18.831	18.831	+5.171%	-5.171%	-5.730%	1200	6213	5885	1036	1364	723	777	313	587

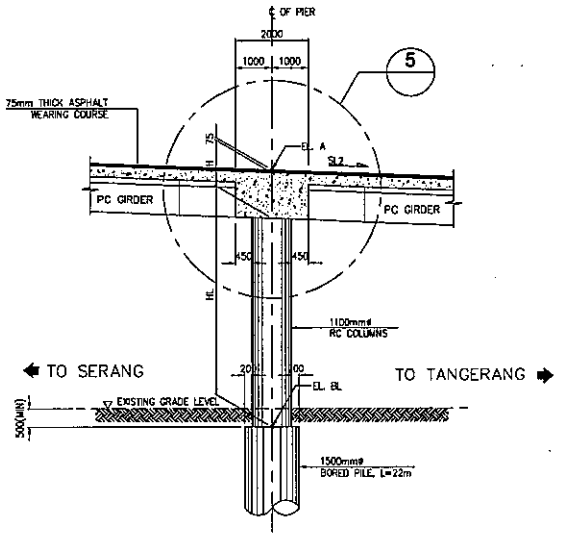


5 DETAIL
SCALE : 1:40



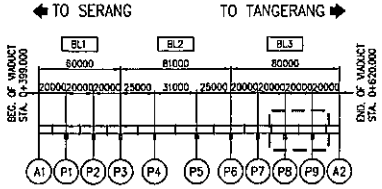


1 ELEVATION
SCALE : 1:150

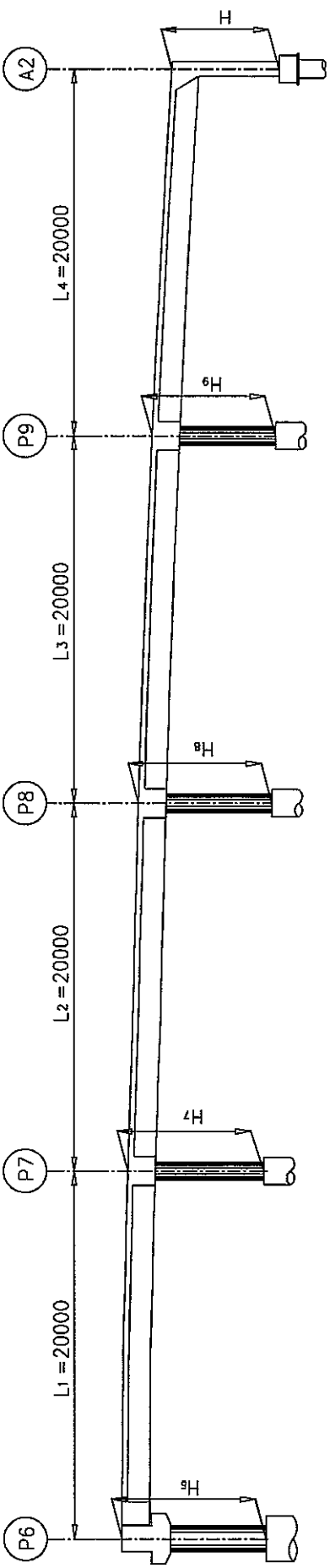


3 SECTION
SCALE : 1:150

NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETER
2. ELEVATIONS ARE IN METERS



FRAME P6-A2



L_1 = 20 m H_6 = 7.635 m (7.6)
L_2 = 20 m H_7 = 7.598 m (7.6)
L_3 = 20 m H_8 = 7.249 m (7.25)
L_4 = 20 m H_9 = 7.249 m (7.25)
H = 6.567 m (6.55)

(3) Spring Constant of Foundation

SUMMARY OF SPRING CONSTANT ANALYSIS FOR NORTH JAVA FLYOVER

SPRING CONSTANT ANALYSIS FOR MERAK FLYOVER - SINGLE PILE - SECTION P13-A2

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00399 m	K_v = 1.00E+06 kN/m	P = 4000 kN Δz = 0.00648 m	K_v = 6.17E+05 kN/m	P = 4000 kN Δz = 0.00755 m	K_v = 5.30E+05 kN/m
LATERAL	P = 400 kN Δx = 7.72E-03 m	K_h = 5.18E+04 kN/m	P = 400 kN Δx = 2.21E-02 m	K_h = 1.81E+04 kN/m	P = 400 kN Δx = 3.81E-02 m	K_h = 1.05E+04 kN/m
	P = 400 kN θ = 0.00081 rad	$K_{h\theta}$ = 4.93E+05 kN/rad	P = 400 kN θ = 0.00252 rad	$K_{h\theta}$ = 1.59E+05 kN/rad	P = 400 kN θ = 0.00459 rad	$K_{h\theta}$ = 6.71E+04 kN/rad
MOMENT	M = 400 kN.m θ = 0.00003 rad	K_θ = 1.45E+07 kN.m/rad	M = 400 kN.m θ = 0.00010 rad	K_θ = 4.19E+06 kN.m/rad	M = 400 kN.m θ = 0.00019 rad	K_θ = 2.13E+06 kN.m/rad

SPRING CONSTANT ANALYSIS FOR MERAK FLYOVER - SINGLE PILE - SECTION A1 - P9

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00333 m	K_v = 1.20E+06 kN/m	P = 4000 kN Δz = 0.00492 m	K_v = 8.13E+05 kN/m	P = 4000 kN Δz = 0.00573 m	K_v = 6.98E+05 kN/m
LATERAL	P = 400 kN Δx = 4.54E-03 m	K_h = 8.81E+04 kN/m	P = 400 kN Δx = 1.23E-02 m	K_h = 3.25E+04 kN/m	P = 400 kN Δx = 2.09E-02 m	K_h = 1.91E+04 kN/m
	P = 400 kN θ = 0.00056 rad	$K_{h\theta}$ = 7.10E+05 kN/rad	P = 400 kN θ = 0.00170 rad	$K_{h\theta}$ = 2.35E+05 kN/rad	P = 400 kN θ = 0.00306 rad	$K_{h\theta}$ = 1.31E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00002 rad	K_θ = 1.75E+07 kN.m/rad	M = 400 kN.m θ = 0.00008 rad	K_θ = 5.10E+06 kN.m/rad	M = 400 kN.m θ = 0.00015 rad	K_θ = 2.60E+06 kN.m/rad

X 2

SPRING CONSTANT ANALYSIS FOR MERAK FLYOVER - SINGLE PILE - SECTION P9 - P13

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00377 m	K_v = 1.06E+06 kN/m	P = 4000 kN Δz = 0.00606 m	K_v = 6.60E+05 kN/m	P = 4000 kN Δz = 0.00704 m	K_v = 5.68E+05 kN/m
LATERAL	P = 400 kN Δx = 6.36E-03 m	K_h = 6.29E+04 kN/m	P = 400 kN Δx = 1.73E-02 m	K_h = 2.31E+04 kN/m	P = 400 kN Δx = 2.89E-02 m	K_h = 1.38E+04 kN/m
	P = 400 kN θ = 0.00069 rad	$K_{h\theta}$ = 5.81E+05 kN/rad	P = 400 kN θ = 0.00206 rad	$K_{h\theta}$ = 1.94E+05 kN/rad	P = 400 kN θ = 0.00366 rad	$K_{h\theta}$ = 1.09E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00003 rad	K_θ = 1.53E+07 kN.m/rad	M = 400 kN.m θ = 0.00009 rad	K_θ = 4.49E+06 kN.m/rad	M = 400 kN.m θ = 0.00017 rad	K_θ = 2.31E+06 kN.m/rad

SPRING CONSTANT ANALYSIS FOR BALARAJA FLYOVER - SINGLE PILE

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00338 m	K_v = 1.18E+06 kN/m	P = 4000 kN Δz = 0.00369 m	K_v = 1.08E+06 kN/m	P = 4000 kN Δz = 0.00500 m	K_v = 8.00E+05 kN/m
LATERAL	P = 400 kN Δx = 0.00247 m	K_h = 1.62E+05 kN/m	P = 400 kN Δx = 0.00663 m	K_h = 6.03E+04 kN/m	P = 400 kN Δx = 0.0109 m	K_h = 3.67E+04 kN/m
	P = 400 kN θ = 0.00036 rad	$K_{h\theta}$ = 1.11E+06 kN/rad	P = 400 kN θ = 0.00107 rad	$K_{h\theta}$ = 3.74E+05 kN/rad	P = 400 kN θ = 0.00188 rad	$K_{h\theta}$ = 2.13E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00002 rad	K_θ = 2.01E+07 kN.m/rad	M = 400 kN.m θ = 0.00007 rad	K_θ = 5.89E+06 kN.m/rad	M = 400 kN.m θ = 0.00013 rad	K_θ = 3.03E+06 kN.m/rad

SPRING CONSTANT ANALYSIS FOR NAGREG FLYOVER

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00274 m	K_v = 1.46E+06 kN/m	P = 4000 kN Δz = 0.00312 m	K_v = 1.28E+06 kN/m	P = 4000 kN Δz = 0.00395 m	K_v = 1.01E+06 kN/m
LATERAL	P = 400 kN Δx = 0.00251 m	K_h = 1.59E+05 kN/m	P = 400 kN Δx = 0.0058 m	K_h = 6.90E+04 kN/m	P = 400 kN Δx = 0.00921 m	K_h = 4.34E+04 kN/m
	P = 400 kN θ = 0.00036 rad	$K_{h\theta}$ = 1.12E+06 kN/rad	P = 400 kN θ = 0.00096 rad	$K_{h\theta}$ = 4.16E+05 kN/rad	P = 400 kN θ = 0.00167 rad	$K_{h\theta}$ = 2.40E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00002 rad	K_θ = 1.98E+07 kN.m/rad	M = 400 kN.m θ = 0.00007 rad	K_θ = 6.11E+06 kN.m/rad	M = 400 kN.m θ = 0.00013 rad	K_θ = 3.15E+06 kN.m/rad

SPRING CONSTANT ANALYSIS FOR GEBANG FLYOVER

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00307 m	K_v = 1.30E+06 kN/m	P = 4000 kN Δz = 0.00367 m	K_v = 1.09E+06 kN/m	P = 4000 kN Δz = 0.00474 m	K_v = 8.44E+05 kN/m
LATERAL	P = 400 kN Δx = 1.28E-02 m	K_h = 3.13E+04 kN/m	P = 400 kN Δx = 3.31E-02 m	K_h = 1.21E+04 kN/m	P = 400 kN Δx = 5.58E-02 m	K_h = 7.17E+03 kN/m
	P = 400 kN θ = 0.00110 rad	$K_{h\theta}$ = 3.64E+05 kN/rad	P = 400 kN θ = 0.00314 rad	$K_{h\theta}$ = 1.27E+05 kN/rad	P = 400 kN θ = 0.00561 rad	$K_{h\theta}$ = 7.13E+04 kN/rad
MOMENT	M = 400 kN.m θ = 0.00003 rad	K_θ = 1.25E+07 kN.m/rad	M = 400 kN.m θ = 0.00011 rad	K_θ = 3.77E+06 kN.m/rad	M = 400 kN.m θ = 0.00021 rad	K_θ = 1.93E+06 kN.m/rad

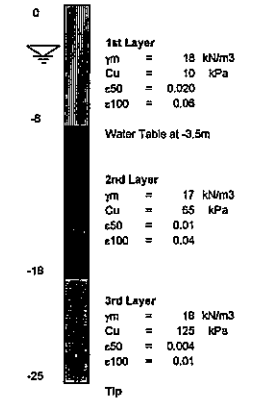
SPRING CONSTANT ANALYSIS FOR PETERONGAN FLYOVER

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00290 m	K_v = 1.38E+06 kN/m	P = 4000 kN Δz = 0.00371 m	K_v = 1.08E+06 kN/m	P = 4000 kN Δz = 0.00437 m	K_v = 9.15E+05 kN/m
LATERAL	P = 400 kN Δx = 4.01E-03 m	K_h = 9.98E+04 kN/m	P = 400 kN Δx = 0.01140 m	K_h = 3.51E+04 kN/m	P = 400 kN Δx = 1.98E-02 m	K_h = 2.02E+04 kN/m
	P = 400 kN θ = 0.00054 rad	$K_{h\theta}$ = 7.46E+05 kN/rad	P = 400 kN θ = 0.00166 rad	$K_{h\theta}$ = 2.41E+05 kN/rad	P = 400 kN θ = 0.00306 rad	$K_{h\theta}$ = 1.31E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00002 rad	K_θ = 1.80E+07 kN.m/rad	M = 400 kN.m θ = 0.00008 rad	K_θ = 5.19E+06 kN.m/rad	M = 400 kN.m θ = 0.00015 rad	K_θ = 2.61E+06 kN.m/rad

SPRING CONSTANT ANALYSIS FOR TANGGULANGIN FLYOVER

BORED PILE	PILE DIA. 2500 MM		PILE DIA. 1800 MM (ABUTMENT)		PILE DIA.1500 MM	
	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT	LOAD & DEFORMATION	SPRING CONSTANT
AXIAL	P = 4000 kN Δz = 0.00292 m	K_v = 1.37E+06 kN/m	P = 4000 kN Δz = 0.00412 m	K_v = 9.71E+05 kN/m	P = 4000 kN Δz = 0.00536 m	K_v = 7.46E+05 kN/m
LATERAL	P = 400 kN Δx = 5.16E-03 m	K_h = 7.75E+04 kN/m	P = 400 kN Δx = 0.01320 m	K_h = 3.03E+04 kN/m	P = 400 kN Δx = 2.05E-02 m	K_h = 1.95E+04 kN/m
	P = 400 kN θ = 0.00058 rad	$K_{h\theta}$ = 6.96E+05 kN/rad	P = 400 kN θ = 0.00166 rad	$K_{h\theta}$ = 2.41E+05 kN/rad	P = 400 kN θ = 0.00287 rad	$K_{h\theta}$ = 1.39E+05 kN/rad
MOMENT	M = 400 kN.m θ = 0.00002 rad	K_θ = 1.64E+07 kN.m/rad	M = 400 kN.m θ = 0.00008 rad	K_θ = 4.87E+06 kN.m/rad	M = 400 kN.m θ = 0.00016 rad	K_θ = 2.53E+06 kN.m/rad

SOIL DATA INPUT



Soil Properties

1st Layer
γm = 18 kN/m3
Cu = 10 kPa
ε50 = 0.020
ε100 = 0.08

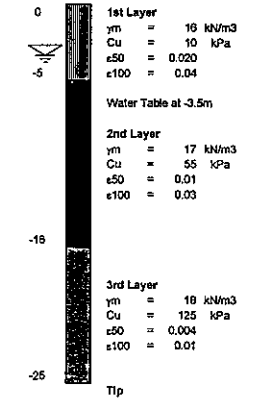
Water Table at -3.5m

2nd Layer
γm = 17 kN/m3
Cu = 55 kPa
ε50 = 0.01
ε100 = 0.04

3rd Layer
γm = 18 kN/m3
Cu = 125 kPa
ε50 = 0.004
ε100 = 0.01

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 16 kN/m3
Cu = 10 kPa
ε50 = 0.020
ε100 = 0.04

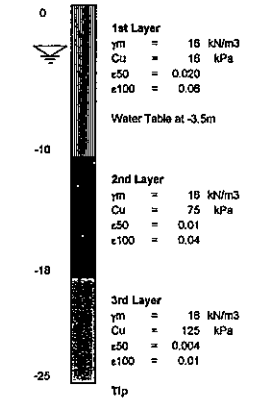
Water Table at -3.5m

2nd Layer
γm = 17 kN/m3
Cu = 55 kPa
ε50 = 0.01
ε100 = 0.03

3rd Layer
γm = 18 kN/m3
Cu = 125 kPa
ε50 = 0.004
ε100 = 0.01

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 16 kN/m3
Cu = 16 kPa
ε50 = 0.02
ε100 = 0.06

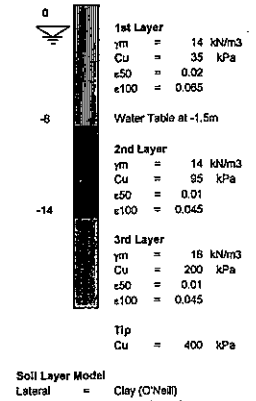
Water Table at -3.5m

2nd Layer
γm = 18 kN/m3
Cu = 75 kPa
ε50 = 0.01
ε100 = 0.04

3rd Layer
γm = 18 kN/m3
Cu = 125 kPa
ε50 = 0.004
ε100 = 0.01

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 14 kN/m3
Cu = 35 kPa
ε50 = 0.02
ε100 = 0.065

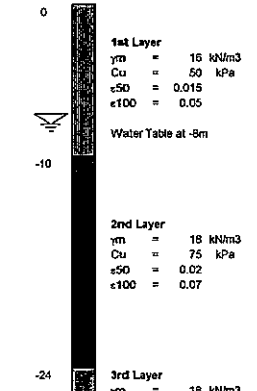
Water Table at -1.5m

2nd Layer
γm = 14 kN/m3
Cu = 95 kPa
ε50 = 0.01
ε100 = 0.045

3rd Layer
γm = 18 kN/m3
Cu = 200 kPa
ε50 = 0.01
ε100 = 0.045

Tip
Cu = 400 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 16 kN/m3
Cu = 50 kPa
ε50 = 0.015
ε100 = 0.05

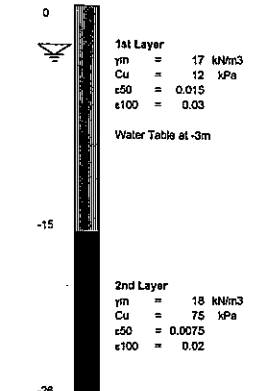
Water Table at -8m

2nd Layer
γm = 18 kN/m3
Cu = 75 kPa
ε50 = 0.02
ε100 = 0.07

3rd Layer
γm = 18 kN/m3
Cu = 120 kPa
ε50 = 0.008
ε100 = 0.02

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 17 kN/m3
Cu = 12 kPa
ε50 = 0.015
ε100 = 0.03

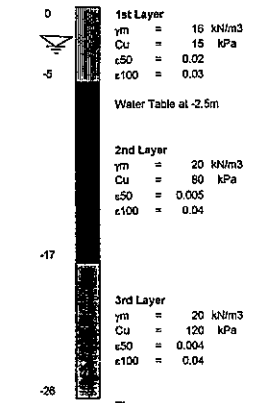
Water Table at -3m

2nd Layer
γm = 18 kN/m3
Cu = 75 kPa
ε50 = 0.0075
ε100 = 0.02

3rd Layer
γm = 18 kN/m3
Cu = 120 kPa
ε50 = 0.004
ε100 = 0.01

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 16 kN/m3
Cu = 15 kPa
ε50 = 0.02
ε100 = 0.03

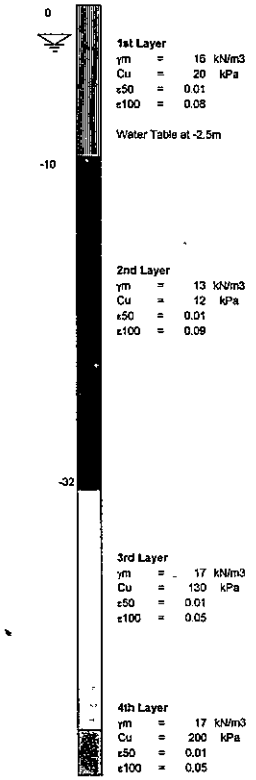
Water Table at -2.5m

2nd Layer
γm = 20 kN/m3
Cu = 80 kPa
ε50 = 0.005
ε100 = 0.04

3rd Layer
γm = 20 kN/m3
Cu = 120 kPa
ε50 = 0.004
ε100 = 0.04

Tip
Cu = 200 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic



Soil Properties

1st Layer
γm = 16 kN/m3
Cu = 20 kPa
ε50 = 0.01
ε100 = 0.08

Water Table at -2.5m

2nd Layer
γm = 13 kN/m3
Cu = 12 kPa
ε50 = 0.01
ε100 = 0.09

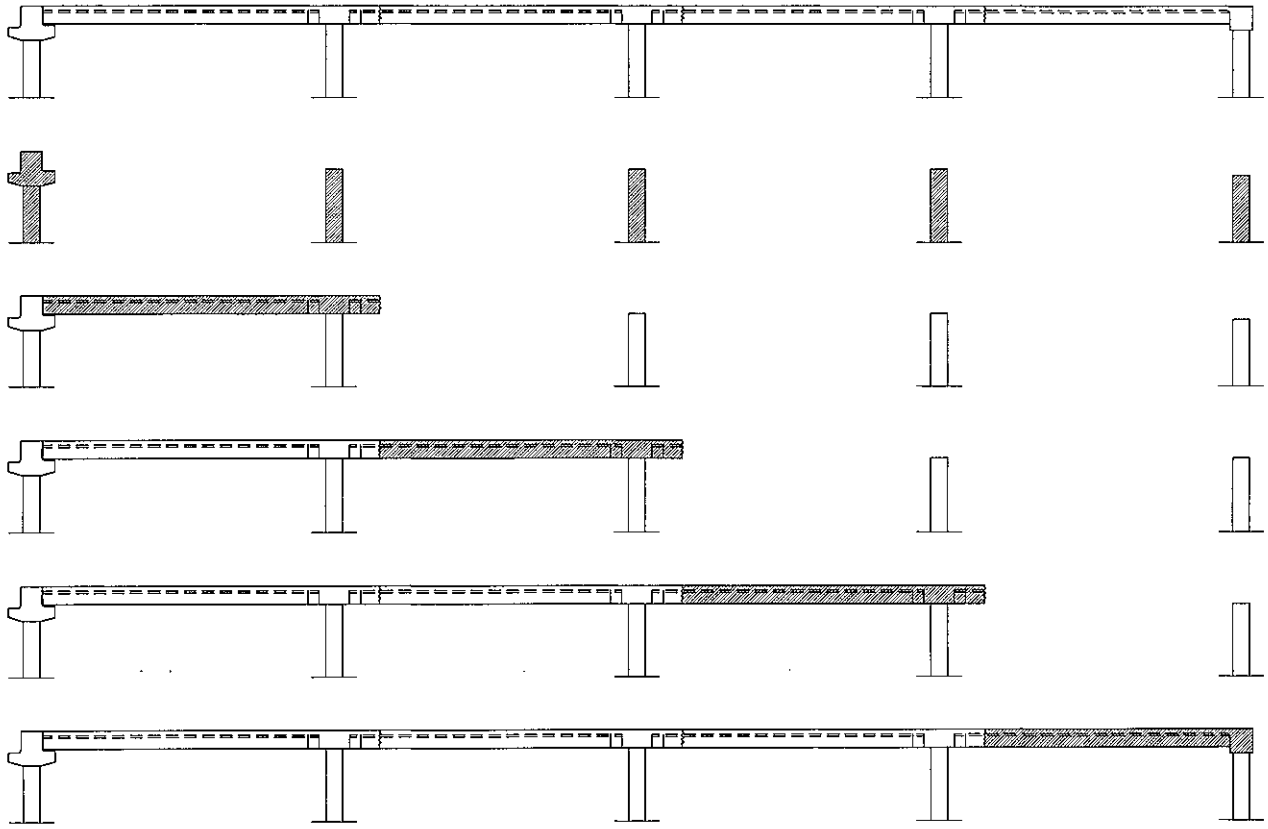
3rd Layer
γm = 17 kN/m3
Cu = 130 kPa
ε50 = 0.01
ε100 = 0.05

4th Layer
γm = 17 kN/m3
Cu = 200 kPa
ε50 = 0.01
ε100 = 0.05

Tip
Cu = 300 kPa

Soil Layer Model
Lateral = Clay (O'Neill)
Axial = Drilled Shaft Clay
Torsional = Hyperbolic

2.1.3 Construction Sequence and Time Schedule for Design



Stage 1 (30 days)
Substructure

Stage 2 (15 days)
Superstructure
1st span
Pre-stressing & Coupling

Stage 3 (15 days)
Superstructure
2nd span
Pre-stressing & Coupling

Stage 4 (15 days)
Superstructure
3rd span
Pre-stressing & Coupling

Stage 5 (15 days)
Superstructure
4th span
Pre-stressing & Coupling

Stage 6 (15 days)
Pre-stressing completion Fly Over
To bridge Surface Contruction 30 days
Completion of Bridge Surface
Contruction to first
Live Leading 30 days.

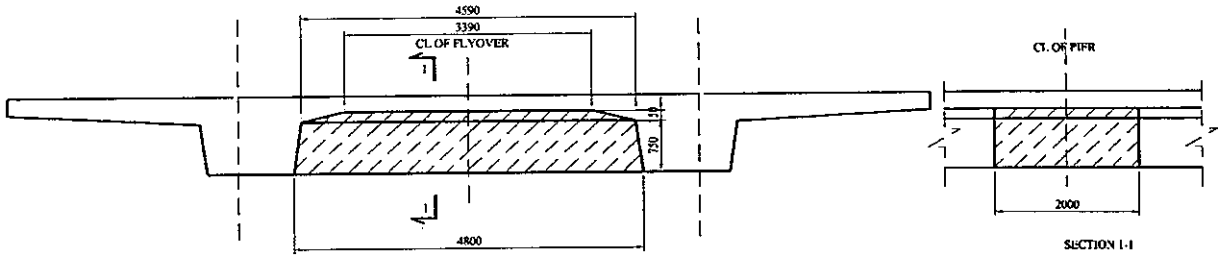
2.1.4 Loadings

(1) Self weight of Girder including Slab

Self weight shall be calculated by computer automatically design by using the unit weight 25 kN/m3

(2) CROSS BEAM

A. INTERMEDIATE CROSS BEAM CONCRETE



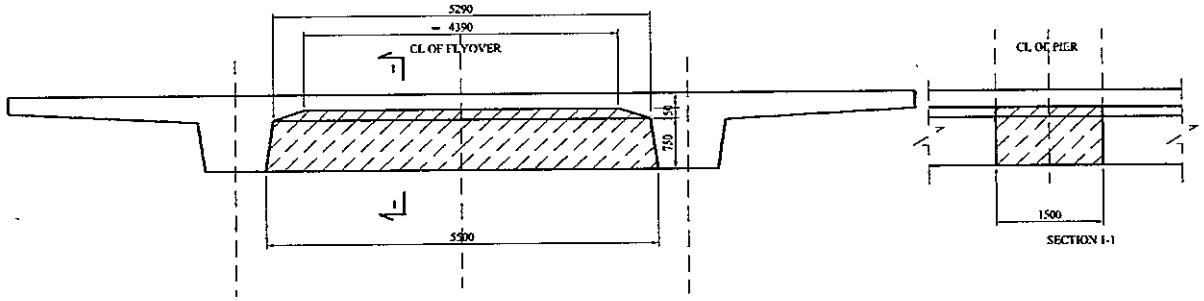
INTERMEDIATE CROSS BEAM SECTION AREA

0.5	x (	4.590	+	3.390) x	0.150	=	0.599 m2
0.5	x (	4.590	+	4.800) x	0.750	=	3.521 m2
							4.120 m2

INTERMEDIATE CROSS BEAM CONCRETE WEIGHT

4.120	x	2.000	x	25	=	206.000 kN (AT PIER)

B. END CROSS BEAM CONCRETE AT ABUTMENT



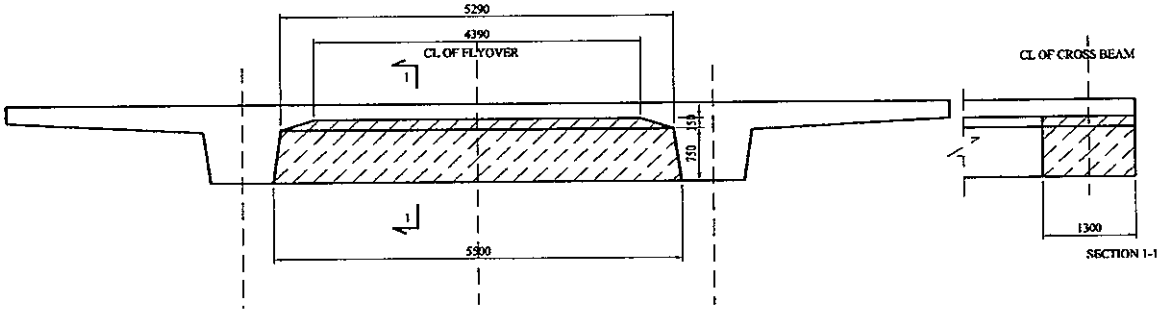
END CROSS BEAM SECTION AREA

0.5	x (	5.290	+	4.390) x	0.150	=	0.726 m2
0.5	x (	5.290	+	5.500) x	0.750	=	4.046 m2
							4.772 m2

END CROSS BEAM CONCRETE WEIGHT

4.772	x	1.500	x	25	=	178.950 kN
6.545	x	0.750	x	25	=	122.719 kN
refer to section property						301.669 kN (AT ABUTMENT)

C. END CROSS BEAM CONCRETE AT PIER



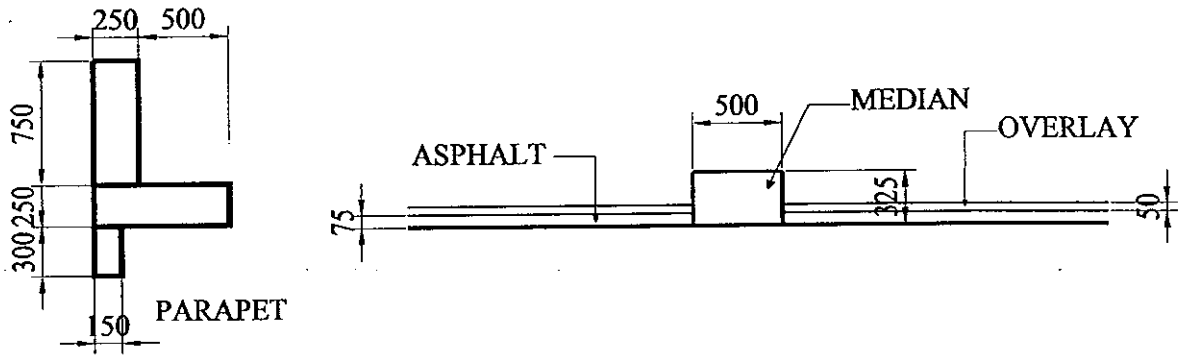
END CROSS BEAM SECTION AREA

0.5	x (	5.290	+	4.390) x	0.150	=	0.726 m2
0.5	x (	5.290	+	5.500) x	0.750	=	4.046 m2
							4.772 m2

END CROSS BEAM CONCRETE WEIGHT

4.772	x	1.300	x	25	=	155.090 kN (AT PIER)

(3) SUPERIMPOSED DEAD LOAD (13 m flyover width)



(1). PARAPET

0.250	x	0.750	x	25	=	4.688 kN/m
0.250	x	0.750	x	25	=	4.688 kN/m
0.300	x	0.150	x	25	=	1.125 kN/m
						10.501 kN/m x 2
					=	21.002 kN/m

(2). MEDIAN

0.500	x	0.325	x	25	=	4.063 kN/m

(3). ASPHALT

Width clearance for asphalt = *flyover width total -parapet width x 2 - median width*

13.000 m	-	0.750 m	x	2	-	0.5 m	=	11.000 m

0.075 m	x	11.000	x	22	=	18.150 kN/m
0.050 m	x	11.000	x	22	=	12.100 kN/m
						30.250 kN/m

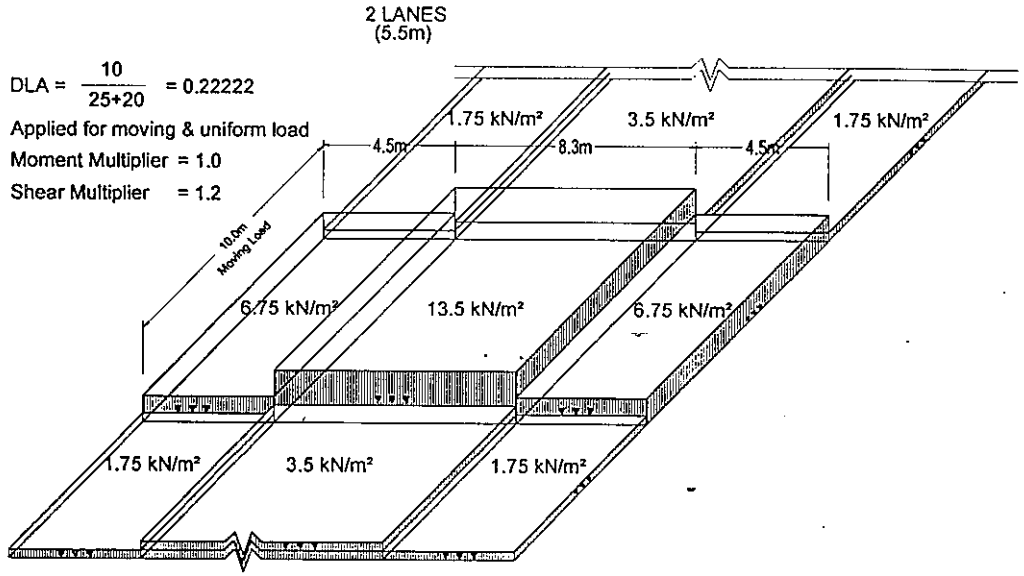
SUPERIMPOSED DEAD LOAD TOTAL (SDL):

21.002	+	4.063	+	30.250	=	55.315 kN/m

(4) Live Load (Refer to Comparison Study Report)

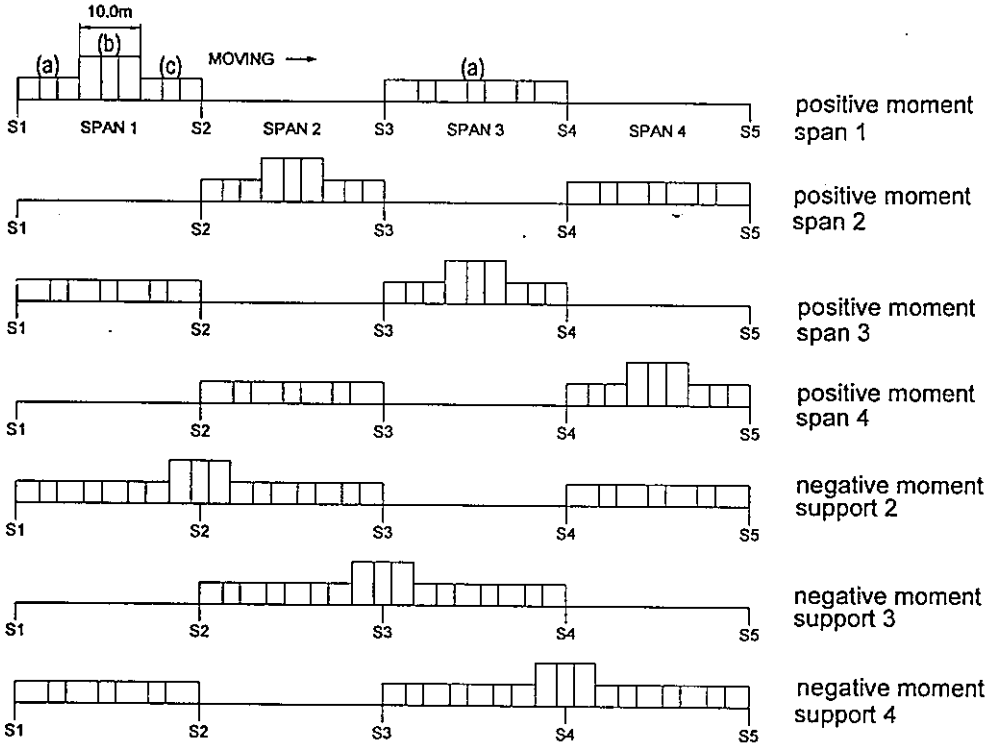
The applied live load equivalent of the design load of the Project is established from the comparison cases to be the JRA Live Load over the full carriageway width with multiplication factor 1.35.

JAPAN BRIDGE LOADING
('L' LOADING)

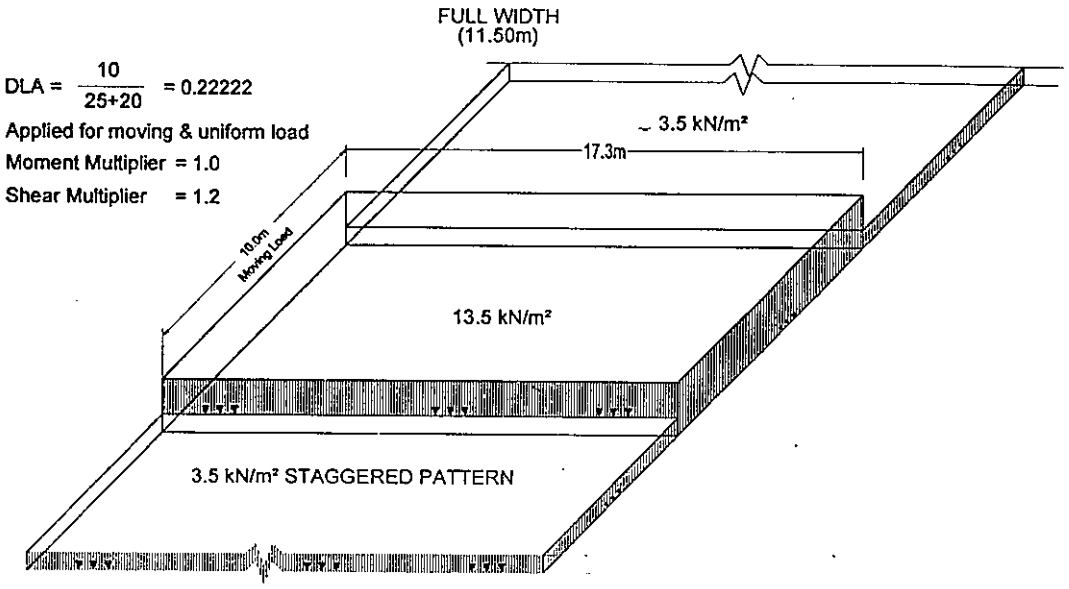


APPLICATION TO 11.50 m' ROADWAY WIDTH FOR EACH GIRDER

	(a)	(b)	(c)
no impact	14.875 kN/m'	57.375 kN/m'	14.875 kN/m'
with impact	18.181 kN/m'	70.125 kN/m'	18.181 kN/m'

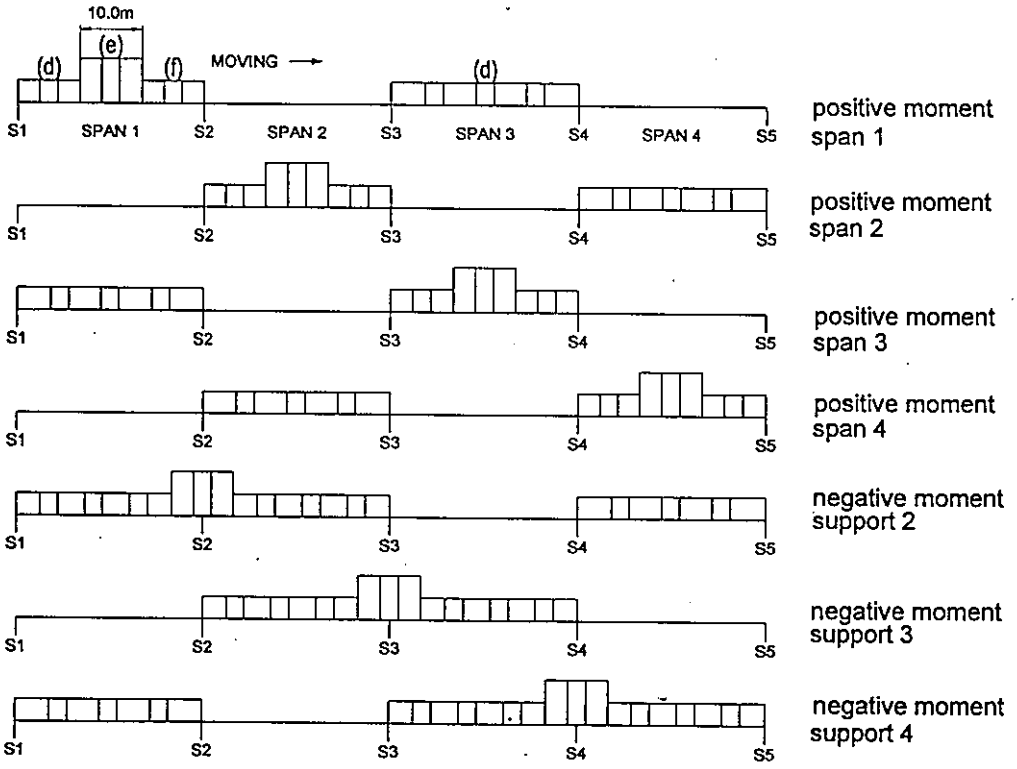


JAPAN BRIDGE LOADING
('L' LOADING)

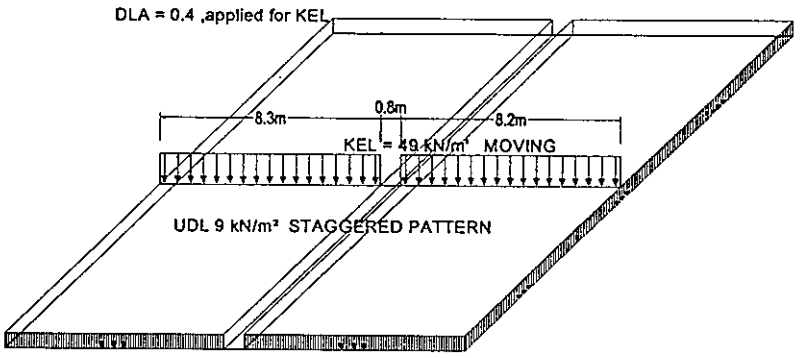


APPLICATION TO 11.50 m' ROADWAY WIDTH FOR EACH DIRDER

no impact	20.125 kN/m'	77.625 kN/m'	20.125 kN/m'
with impact	24.597 kN/m'	94.875 kN/m'	24.597 kN/m'
	(d)	(e)	(f)

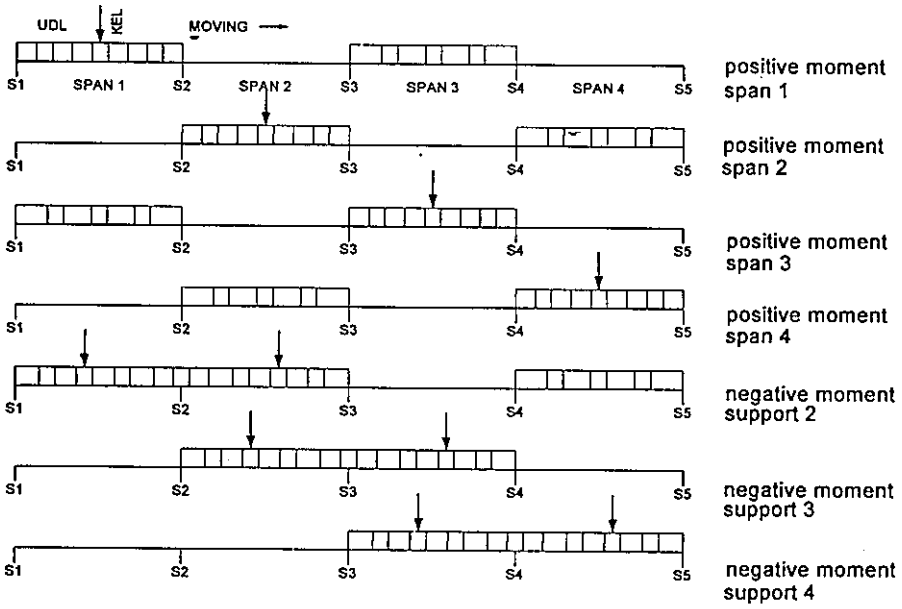


INDONESIA BRIDGE LOADING
('D' LOADING)



APPLICATION TO 11.50 m' ROADWAY WIDTH FOR EACH GIRDER

no impact	UDL = 49.50 kN/m'	KEL = 269.50 kN/m'
with impact	UDL = 49.50 kN/m'	KEL = 377.30 kN/m'



II.3. COMPARISON CASE

Case 1: Regulated JRA Live Load for 2 lanes

Case 2: JRA Live Load for 3 lanes

Case 3: JRA Live Load for full carriage width

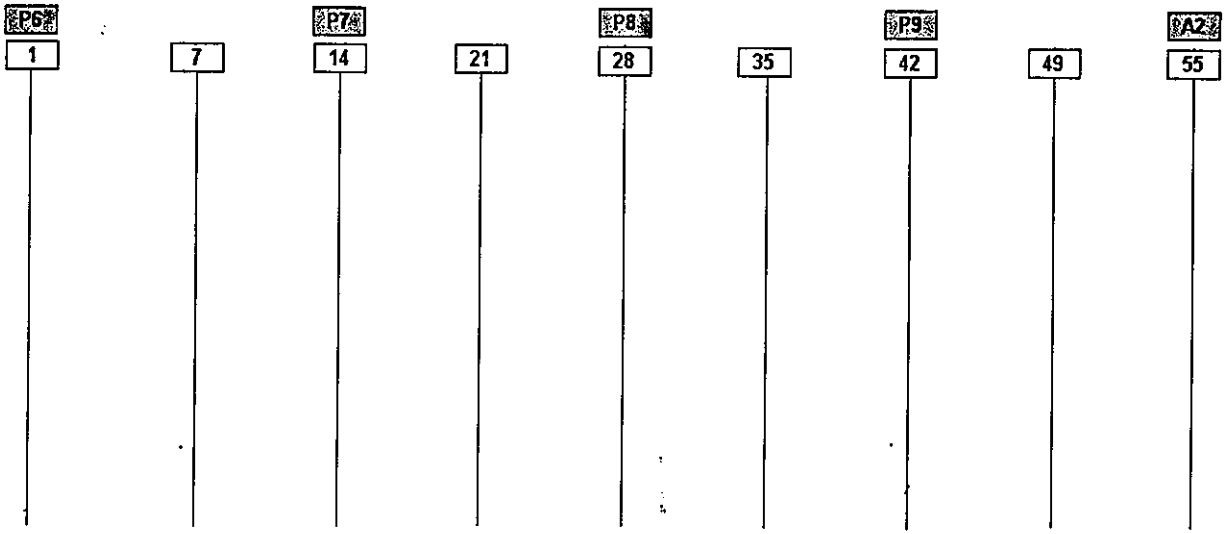
Case 4: 1.35 x Case 3

Case 5: Design Code Live Load

Please refer to comparison table and figures in the following pages.

COMPARISON OF BENDING MOMENT RESULTS

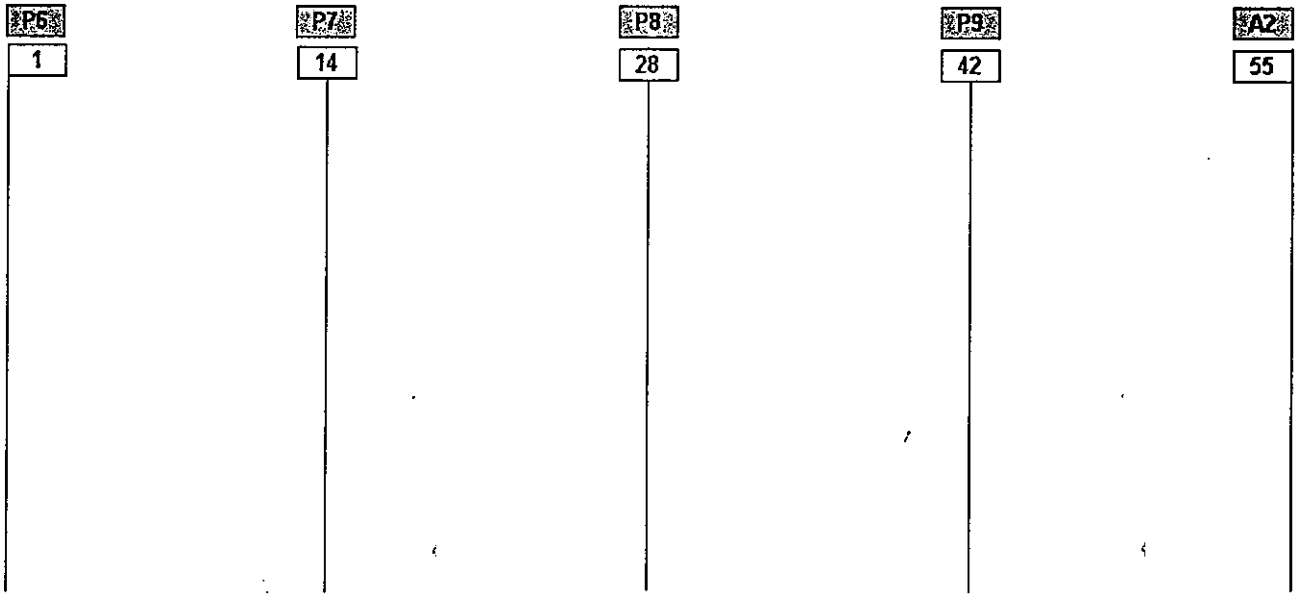
BALARAJA FLYOVER



JAPANESE	Case-1	Regulated, W = 5.5m (2 lane)	4,304	64%	-3,820	58%	3,466	63%	-3,452	56%	3,488	61%	-3,428	50%	3,740	61%	-1,894	64%
	Case-2	W = 8.25m (3 lane)	5,196	78%	-4,864	74%	4,128	75%	-4,356	71%	4,264	74%	-4,714	68%	4,574	75%	-2,468	83%
	Case-3	W = 11.5 (full)	5,822	87%	-5,168	78%	4,688	86%	-4,670	76%	4,720	82%	-5,082	74%	5,062	83%	-2,696	91%
	Case-4	W = 11.5m (full) x 1.35	7,860	117%	-6,977	106%	6,329	115%	-6,305	102%	6,372	111%	-6,861	99%	6,834	112%	-3,640	123%
	Case-5	North Java Criteria	**6,694**		**-6,590**		**5,482**		**-6,162**		**5,755**		**-6,901**		**6,118**		**-2,960**	
AASHTO	1 - OLD 1994		2,400	36%	-2,536	38%	1,809	33%	2,218	36%	1,797	31%	-2,448	35%	2,037	33%	-677	23%
	2 - NEW 2004		5,023	75%	-4,948	75%	3,778	69%	4,344	70%	3,755	65%	-4,815	70%	4,249	69%	-1,463	49%

COMPARISON OF SHEAR RESULTS

BALARAJA FLYOVER



JRA (FULL LOADED)	853	104%	1,042	109%	956	111%	987	108%	954	107%	1,010	106%	993	108%	956	105%
JRA (FULL LOADED) x 1.35	1108.9	136%	1,407	147%	1,291	150%	1,332	146%	1,288	145%	1,364	143%	1,341	146%	1,291	142%
DESIGN CRITERIA	**817**		**954**		**863**		**911**		**888**		**956**		**918**		**911**	

(5) Temperature Effect

Temperature change per year: 10 °C

Temperature change per day: 5 °C

(6) Earthquake (Static Analysis, refer to Structural Design Criteria)

$$T_{EQ} = K_h \cdot I \cdot W_T$$

where:

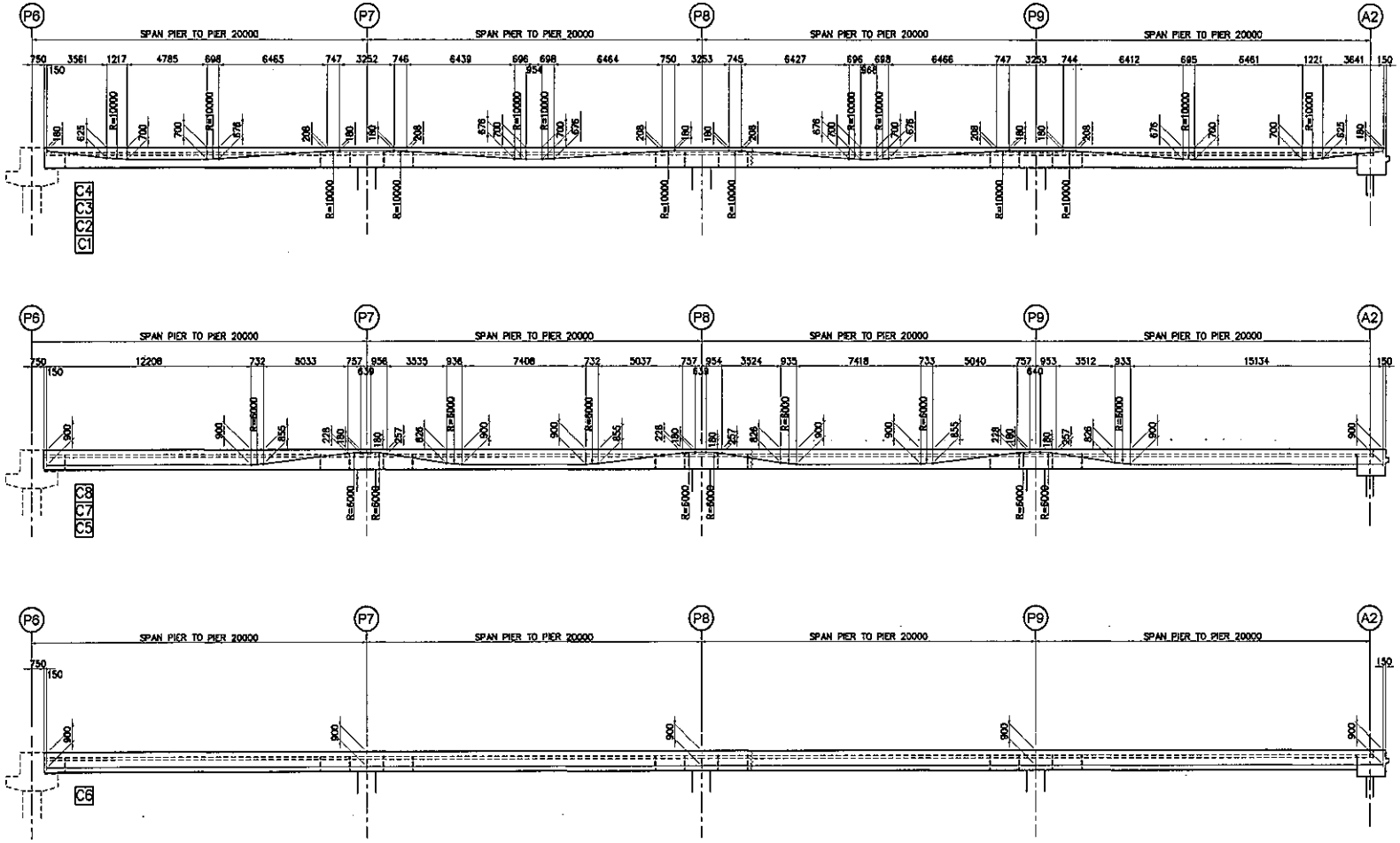
$$K_h = C_{plastic} \cdot S$$

and:

T_{EQ}	=	Total base shear force in the direction being considered (kN)
K_h	=	Coefficient of horizontal seismic loading
$C_{plastic}$	=	Plastic base shear coefficient for the appropriate zone, period and site conditions
I	=	Importance factor (refer Table 2.2.4-5)
S	=	Structural type number (refer Table 2.2.4-6)
W_T	=	Total nominal weight of structure subject to seismic acceleration, taken as dead load plus superimposed dead load (kN)

	Zone	$C_{plastic}$ (max)	S	K_h	I	K_h x I
MERAK	2	0.21	1.225	0.257	1.2	0.31
BALARAJA NAGREG GEBANG	3	0.18	1.225	0.221	1.2	0.27
PETERONGAN TANGGULANGIN	4	0.15	1.225	0.184	1.2	0.22

2.1.5 Arrangement and Detail of Longitudinal PC Tendons



ARRANGEMENT END DETAIL OF LONGITUDINAL PC CABLES FOR BALARAJA FLYOVER (P6–A2)

2.2 SECTION PROPERTIES

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns *** CONST1 ***

コンクリート単位体積重量 25.0000 kN/m3 Unit Weight of Concrete of Main Beam

主桁断面総数 55 主桁以外の断面総数 25 ウェブ本数 2 Number of Main Beam Section Number of Section except Main Beam Number of Wel

任意形断面のみで計算 Only Optional Section is inputted

支間数 4 Number of Span

支間の各部材数 13 14 14 13 Number of Member on Each Span

*** PETERONGAN Flyover 4 Span Continuous A1-P4 B=13.0m 2columns *** CONST1 ***

Section Property 1

断面諸元 1

断面	A	A(IN)	YO	YU	IX	IY	IJ	QX	QX1	QX2	WO	WU	R2
(1)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(2)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(3)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(4)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(5)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(6)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(7)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(8)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(9)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(10)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(11)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(12)	5.915	0.000	0.335	-0.865	0.552	74.032	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(13)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(14)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(15)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(16)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(17)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(18)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(19)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(20)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(21)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(22)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(23)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(24)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(25)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(26)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(27)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(28)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(29)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(30)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(31)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(32)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(33)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(34)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(35)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(36)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(37)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(38)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(39)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(40)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(41)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(42)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(43)	6.545	0.000	0.375	-0.825	0.693	77.875	0.771	0.872	0.862	0.502	1.850	-0.840	0.106
(44)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(45)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(46)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(47)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(48)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(49)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(50)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093

Section

Section Property 1

Section

断面諸元 1

断面	A	A(IN)	YO	YU	IX	IY	IJ	QX	QX1	QX2	WO	WU	R2
(51)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(52)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(53)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(54)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(55)	5.915	0.000	0.335	-0.865	0.552	74.030	0.451	0.706	0.683	0.382	1.651	-0.638	0.093
(56)	1.624	0.000	0.700	-0.700	0.210	0.210		0.248	0.000	0.000	0.300	-0.300	0.130
(57)	1.624	0.000	0.700	-0.700	0.210	0.210		0.248	0.000	0.000	0.300	-0.300	0.130
(58)	1.624	0.000	0.700	-0.700	0.210	0.210		0.248	0.000	0.000	0.300	-0.300	0.130
(59)	1.624	0.000	0.700	-0.700	0.210	0.210		0.248	0.000	0.000	0.300	-0.300	0.130
(60)	1.624	0.000	0.700	-0.700	0.210	0.210		0.248	0.000	0.000	0.300	-0.300	0.130
(61)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(62)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(63)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(64)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(65)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(66)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(67)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(68)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(69)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(70)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(71)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(72)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(73)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(74)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(75)	0.950	0.000	0.550	-0.550	0.072	0.072	0.144	0.111	0.000	0.000	0.131	-0.131	0.076
(76)	1.539	0.000	0.700	-0.700	0.189	0.189	0.377	0.229	0.000	0.000	0.269	-0.269	0.123
(77)	1.539	0.000	0.700	-0.700	0.189	0.189	0.377	0.229	0.000	0.000	0.269	-0.269	0.123
(78)	1.539	0.000	0.700	-0.700	0.189	0.189	0.377	0.229	0.000	0.000	0.269	-0.269	0.123
(79)	1.539	0.000	0.700	-0.700	0.189	0.189	0.377	0.229	0.000	0.000	0.269	-0.269	0.123
(80)	1.539	0.000	0.700	-0.700	0.189	0.189	0.377	0.229	0.000	0.000	0.269	-0.269	0.123

*** PETERONGAN Flyover 4 Span Continuous A1-P4 B=13.0m 2columns *** CONST1 ***

Section Property 2

Section

断面諸元　2

断面	AF	YOF	U	A/U	WEIGHT	AV.A	XP	AV.A*XP	AV.IX	AV.IY	AV.IJ	AV.A/U
(1)	3.777	0.149	28.561	0.229	163.625							
						6.545	0.800	5.236	0.693	77.875	0.771	0.229
(2)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.200	7.854	0.693	77.875	0.771	0.229
(3)	3.777	0.149	28.561	0.229	163.625							
						6.222	1.750	10.889	0.619	75.929	0.590	0.218
(4)	3.777	0.149	28.561	0.207	147.884							
						5.915	1.250	7.394	0.552	74.032	0.451	0.207
(5)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(6)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(7)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(8)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(9)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(10)	3.777	0.149	28.561	0.207	147.884							
						5.915	2.000	11.831	0.552	74.032	0.451	0.207
(11)	3.777	0.149	28.561	0.207	147.884							
						5.915	0.250	1.479	0.552	74.032	0.451	0.207
(12)	3.777	0.149	28.561	0.207	147.884							
						6.222	1.750	10.889	0.619	75.929	0.590	0.218
(13)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(14)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(15)	3.777	0.149	28.561	0.229	163.625							
						6.222	1.750	10.889	0.619	75.928	0.590	0.218
(16)	3.777	0.149	28.561	0.207	147.875							
						5.915	0.250	1.479	0.552	74.030	0.451	0.207
(17)	3.777	0.149	28.561	0.207	147.875							
						5.915	1.000	5.915	0.552	74.030	0.451	0.207
(18)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(19)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(20)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(21)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(22)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(23)	3.777	0.149	28.561	0.207	147.875							
						5.915	1.000	5.915	0.552	74.030	0.451	0.207
(24)	3.777	0.149	28.561	0.207	147.875							
						5.915	0.250	1.479	0.552	74.030	0.451	0.207
(25)	3.777	0.149	28.561	0.207	147.875							

*** PETERONGAN Flyover 4 Span Continuous A1-P4 B=13.0m 2columns *** CONST1 ***

Section Property 2

Section

断面諸元 2

断面	AF	YOF	U	A/U	WEIGHT	AV.A	XP	AV.A*XP	AV.IX	AV.IY	AV.IJ	AV.A/U
(26)	3.777	0.149	28.561	0.207	147.875							
						6.222	1.750	10.889	0.619	75.928	0.590	0.218
(27)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(28)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(29)	3.777	0.149	28.561	0.229	163.625							
						6.222	1.750	10.889	0.619	75.928	0.590	0.218
(30)	3.777	0.149	28.561	0.207	147.875							
						5.915	0.250	1.479	0.552	74.030	0.451	0.207
(31)	3.777	0.149	28.561	0.207	147.875							
						5.915	1.000	5.915	0.552	74.030	0.451	0.207
(32)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(33)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(34)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(35)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(36)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(37)	3.777	0.149	28.561	0.207	147.875							
						5.915	1.000	5.915	0.552	74.030	0.451	0.207
(38)	3.777	0.149	28.561	0.207	147.875							
						5.915	0.250	1.479	0.552	74.030	0.451	0.207
(39)	3.777	0.149	28.561	0.207	147.875							
						6.222	1.750	10.889	0.619	75.928	0.590	0.218
(40)	3.777	0.149	28.561	0.207	147.875							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(41)	3.777	0.149	28.561	0.229	163.625							
						6.545	1.000	6.545	0.693	77.875	0.771	0.229
(42)	3.777	0.149	28.561	0.229	163.625							
						6.222	1.750	10.889	0.619	75.928	0.590	0.218
(43)	3.777	0.149	28.561	0.229	163.625							
						5.915	0.250	1.479	0.552	74.030	0.451	0.207
(44)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(45)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(46)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(47)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(48)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(49)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207
(50)	3.777	0.149	28.561	0.207	147.875							
						5.915	2.000	11.830	0.552	74.030	0.451	0.207

*** PETERONGAN Flyover 4 Span Continuous A1-P4 B=13.0m 2columns *** CONST1 ***

Section Property 2

Section

断面諸元　2

断面	AF	YOF	U	A/U	WEIGHT	AV.A	XP	AV.A*XP	AV.IX	AV.IY	AV.IJ	AV.A/U
(51)	3.777	0.149	28.561	0.207	147.875	5.915	1.250	7.394	0.552	74.030	0.451	0.207
(52)	3.777	0.149	28.561	0.207	147.875	5.915	0.625	3.697	0.552	74.030	0.451	0.207
(53)	3.777	0.149	28.561	0.207	147.875	5.915	1.200	7.098	0.552	74.030	0.451	0.207
(54)	3.777	0.149	28.561	0.207	147.875	5.915	0.800	4.732	0.552	74.030	0.451	0.207
(55)	3.777	0.149	28.561	0.207	147.875							
(56)	0.150	1.160	4.639	0.350	40.595	1.624			0.210	0.210	0.000	
(57)	0.150	1.160	4.639	0.350	40.595	1.624			0.210	0.210	0.000	
(58)	0.150	1.160	4.639	0.350	40.595	1.624			0.210	0.210	0.000	
(59)	0.150	1.160	4.639	0.350	40.595	1.624			0.210	0.210	0.000	
(60)	0.150	1.160	4.639	0.350	40.595	1.242			0.123	0.123	0.000	
(61)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(62)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(63)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(64)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(65)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(66)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(67)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(68)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(69)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(70)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(71)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(72)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(73)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(74)	0.065	0.864	3.456	0.275	23.758	0.950			0.072	0.072	0.144	
(75)	0.065	0.864	3.456	0.275	23.758	1.210			0.116	0.116	0.233	

*** PETERONGAN Flyover 4 Span Continuous A1-P4 B=13.0m 2columns *** CONST1 ***

Section Property 2

Section

断面諸元　2

断面	AF	YOF	U	A/U	WEIGHT	AV.A	XP	AV.A*XP	AV.IX	AV.IY	AV.IJ	AV.A/U
(76)	0.135	1.100	4.398	0.350	38.485							
						1.539			0.189	0.189	0.377	
(77)	0.135	1.100	4.398	0.350	38.485							
						1.539			0.189	0.189	0.377	
(78)	0.135	1.100	4.398	0.350	38.485							
						1.539			0.189	0.189	0.377	
(79)	0.135	1.100	4.398	0.350	38.485							
						1.539			0.189	0.189	0.377	
(80)	0.135	1.100	4.398	0.350	38.485							

TOTAL VOLUME (主桁　AV.A*XP) =　475.352

2.3 CONSTRUCTION STAGE AND LOADINGS

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** X,Y 座標 (m) **

X, Y Co-ordinate (m)

節点	X(m)	Y(m)
1	0.000	0.335
2	0.800	0.335
3	2.000	0.335
4	2.625	0.335
5	3.875	0.335
6	5.875	0.335
7	7.875	0.335
8	9.875	0.335
9	11.875	0.335
10	13.875	0.335
11	15.875	0.335
12	16.125	0.335
13	17.875	2.524
14	18.875	2.524
15	19.875	2.524
16	21.625	0.335
17	21.875	0.335
18	22.875	0.335
19	24.875	0.335
20	26.875	0.335
21	28.875	0.335
22	30.875	0.335
23	32.875	0.335
24	34.875	0.335
25	35.875	0.335
26	36.125	0.335
27	37.875	0.375
28	38.875	0.375
29	39.875	0.375
30	41.625	0.335
31	41.875	0.335
32	42.875	0.335
33	44.875	0.335
34	46.875	0.335
35	48.875	0.335
36	50.875	0.335
37	52.875	0.335
38	54.875	0.335
39	55.875	0.335
40	56.125	0.335
41	57.875	0.375
42	58.875	0.375
43	59.875	0.375
44	61.625	0.335
45	61.875	0.335
46	63.875	0.335
47	65.875	0.335
48	67.875	0.335
49	69.875	0.335
50	71.875	0.335

Node

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** X,Y 座標 (m) **

X, Y Co-ordinate (m)

節点	X(m)	Y(m)
51	73.875	0.335
52	75.125	0.335
53	76.875	0.375
54	78.075	0.375
55	78.875	0.375
56	0.000	1.200
57	0.000	2.400
58	0.000	4.400
59	0.000	6.400
60	0.000	7.600
61	18.875	1.200
62	18.875	2.400
63	18.875	4.400
64	18.875	6.400
65	18.875	7.600
66	38.875	1.200
67	38.875	2.225
68	38.875	4.225
69	38.875	6.225
70	38.875	7.250
71	58.875	1.200
72	58.875	2.225
73	58.875	4.225
74	58.875	6.225
75	58.875	7.250
76	78.875	1.200
77	78.875	1.875
78	78.875	3.875
79	78.875	5.875
80	78.875	6.550

Node

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

主桁の剛域

13 14 27 28 41 42 54

** 要素の入力 **

要素	節点	断面	個数	A(m2)	I(m4)	E(N/mm2)	GAM(kN/m3)	L(m)
1				5.91500	0.55235	31800.	25.000	0.800
2				5.91500	0.55235	31800.	25.000	1.200
3				5.91500	0.55235	31800.	25.000	0.625
4				5.91500	0.55235	31800.	25.000	1.250
5				5.91500	0.55235	31800.	25.000	2.000
6				5.91500	0.55235	31800.	25.000	2.000
7				5.91500	0.55235	31800.	25.000	2.000
8				5.91500	0.55235	31800.	25.000	2.000
9				5.91500	0.55235	31800.	25.000	2.000
10				5.91500	0.55235	31800.	25.000	2.000
11				5.91500	0.55235	31800.	25.000	0.250
12				6.22203	0.61875	31800.	25.000	1.750
13				6545.00008	693.12549	31800.	25.000	1.000
14				6545.00008	693.12549	31800.	25.000	1.000
15				6.22203	0.61875	31800.	25.000	1.750
16				5.91500	0.55235	31800.	25.000	0.250
17				5.91500	0.55235	31800.	25.000	1.000
18				5.91500	0.55235	31800.	25.000	2.000
19				5.91500	0.55235	31800.	25.000	2.000
20				5.91500	0.55235	31800.	25.000	2.000
21				5.91500	0.55235	31800.	25.000	2.000
22				5.91500	0.55235	31800.	25.000	2.000
23				5.91500	0.55235	31800.	25.000	2.000
24				5.91500	0.55235	31800.	25.000	1.000
25				5.91500	0.55235	31800.	25.000	0.250
26				6.22203	0.61875	31800.	25.000	1.750
27				6545.00008	693.12549	31800.	25.000	1.000
28				6545.00008	693.12549	31800.	25.000	1.000
29				6.22203	0.61875	31800.	25.000	1.750
30				5.91500	0.55235	31800.	25.000	0.250
31				5.91500	0.55235	31800.	25.000	1.000
32				5.91500	0.55235	31800.	25.000	2.000
33				5.91500	0.55235	31800.	25.000	2.000
34				5.91500	0.55235	31800.	25.000	2.000
35				5.91500	0.55235	31800.	25.000	2.000
36				5.91500	0.55235	31800.	25.000	2.000
37				5.91500	0.55235	31800.	25.000	2.000
38				5.91500	0.55235	31800.	25.000	1.000
39				5.91500	0.55235	31800.	25.000	0.250
40				6.22203	0.61875	31800.	25.000	1.750
41				6545.00008	693.12549	31800.	25.000	1.000
42				6545.00008	693.12549	31800.	25.000	1.000
43				6.22203	0.61875	31800.	25.000	1.750
44				5.91500	0.55235	31800.	25.000	0.250
45				5.91500	0.55235	31800.	25.000	2.000
46				5.91500	0.55235	31800.	25.000	2.000
47				5.91500	0.55235	31800.	25.000	2.000
48				5.91500	0.55235	31800.	25.000	2.000
49				5.91500	0.55235	31800.	25.000	2.000
50				5.91500	0.55235	31800.	25.000	2.000

Rigid Zone

Element Data

Element	Node	Section	Number

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 要素の入力 **

要素	節点		断面		個数	A(m2)	I(m4)	E(N/mm2)	GAM(kN/m3)	L(m)
51						5.91500	0.55235	31800.	25.000	1.250
52						6.22203	0.61875	31800.	25.000	1.750
53						6.54500	0.69313	31800.	25.000	1.200
54						6545.00008	693.12549	31800.	25.000	0.800
55	1	56	0	0	2	1000.00000	1000.00000	29400.	0.000	0.865
56	56	57	56	57	2	1.90066	0.14374	29400.	25.000	1.200
57	57	58	57	58	2	1.90066	0.14374	29400.	25.000	2.000
58	58	59	58	59	2	1.90066	0.14374	29400.	25.000	2.000
59	59	60	59	60	2	1.90066	0.14374	29400.	25.000	1.200
60	14	61	0	0	2	1000.00000	1000.00000	29400.	0.000	0.825
61	61	62	61	62	2	1.90066	0.14374	29400.	25.000	1.200
62	62	63	62	63	2	1.90066	0.14374	29400.	25.000	2.000
63	63	64	63	64	2	1.90066	0.14374	29400.	25.000	2.000
64	64	65	64	65	2	1.90066	0.14374	29400.	25.000	1.200
65	28	66	0	0	2	1000.00000	1000.00000	29400.	0.000	0.825
66	66	67	66	67	2	1.90066	0.14374	29400.	25.000	1.025
67	67	68	67	68	2	1.90066	0.14374	29400.	25.000	2.000
68	68	69	68	69	2	1.90066	0.14374	29400.	25.000	2.000
69	69	70	69	70	2	1.90066	0.14374	29400.	25.000	1.025
70	42	71	0	0	2	1000.00000	1000.00000	29400.	0.000	0.825
71	71	72	71	72	2	1.90066	0.14374	29400.	25.000	1.025
72	72	73	72	73	2	1.90066	0.14374	29400.	25.000	2.000
73	73	74	73	74	2	1.90066	0.14374	29400.	25.000	2.000
74	74	75	74	75	2	1.90066	0.14374	29400.	25.000	1.025
75	55	76	0	0	2	1000.00000	1000.00000	29400.	0.000	0.825
76	76	77	76	77	2	3.24760	0.42060	29400.	25.000	0.675
77	77	78	77	78	2	3.24760	0.42060	29400.	25.000	2.000
78	78	79	78	79	2	3.24760	0.42060	29400.	25.000	2.000
79	79	80	79	80	2	3.24760	0.42060	29400.	25.000	0.675

Rigid Zone

Element Data

Element	Node	Section	Number

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* STAGE 1 *

Stage i

変更する部材数 1 — Number of Input for Element
変更する支点数 5 — Number of Input for Support
載荷する荷重数 0 — Number of Input for Dead Load
架設用荷重数 0 — Number of Input for Erection Load
導入ケーブル数 0 — Number of Input for Pre-stress

部材入力 — Element Data

部材	部材	KX0(kN/m)	KY0(kN/m)	KR0(kNm/rad)	KX1(kN/m)	KY1(kN/m)	KR1(kNm/rad)
55	79	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

Element

支点の入力 — Support Data

節点	XYR	KX(kN/m)	KY(kN/m)	KR(kNm/rad)	KX-Y(kN/m)	KX-R(kN/rad)	KY-R(kN/rad)
60	000	0.73400E+05	0.16000E+07	0.60600E+07	0.00000E+00	-0.42600E+06	0.00000E+00
65	000	0.73400E+05	0.16000E+07	0.60600E+07	0.00000E+00	-0.42600E+06	0.00000E+00
70	000	0.73400E+05	0.16000E+07	0.60600E+07	0.00000E+00	-0.42600E+06	0.00000E+00
75	000	0.73400E+05	0.16000E+07	0.60600E+07	0.00000E+00	-0.42600E+06	0.00000E+00
80	000	0.18100E+06	0.32500E+07	0.17700E+08	0.00000E+00	-0.11200E+07	0.00000E+00

Node

* STAGE 2 *

変更する部材数 2
変更する支点数 0
載荷する荷重数 2
架設用荷重数 0
導入ケーブル数 2

部材入力

部材	部材	KX0(kN/m)	KY0(kN/m)	KR0(kNm/rad)	KX1(kN/m)	KY1(kN/m)	KR1(kNm/rad)
1	16	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
55	55	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	-0.30000E+01	-0.30000E+01

載荷荷重の入力

0 -	1	LOAD	C1	C2	C3	C4
1	1	1	0.000	155.090	0.000	0.000
14	14	1	0.000	206.000	0.000	0.000

Dead Load Data

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
-0.225	21.725	4	1	0	0.001	0.001	0
-0.225	21.725	4	2	0	0.001	0.001	0

Pre-stress Data

X0 (m) X1 (m) Nos. of Cable Name of Cable Continuous Condition of Cable Grout Condition

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* STAGE 3 *

変更する部材数 1
変更する支点数 0
載荷する荷重数 1
架設用荷重数 0
導入ケーブル数 2

部材入力

部材	部材	KX0(kN/m)	KY0(kN/m)	KR0(kNm/rad)	KX1(kN/m)	KY1(kN/m)	KR1(kNm/rad)
17	30	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

載荷荷重の入力

0 - 1	LOAD	C1	C2	C3	C4
28 28	1	0.000	206.000	0.000	0.000

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
21.725	41.725	4	1	1	0.001	0.001	0
21.725	41.725	4	2	1	0.001	0.001	0

* STAGE 4 *

変更する部材数 1
変更する支点数 0
載荷する荷重数 2
架設用荷重数 0
導入ケーブル数 2

部材入力

部材	部材	KX0(kN/m)	KY0(kN/m)	KR0(kNm/rad)	KX1(kN/m)	KY1(kN/m)	KR1(kNm/rad)
31	44	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

載荷荷重の入力

0 - 1	LOAD	C1	C2	C3	C4
42 42	1	0.000	206.000	0.000	0.000
35 35	1	0.000	35.790	0.000	0.000

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
41.725	61.725	4	1	1	0.001	0.001	0

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* STAGE 4 *

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
41.725	61.725	4	2	1	0.001	0.001	0

* STAGE 5 *

変更する部材数	1
変更する支点数	0
載荷する荷重数	2
架設用荷重数	0
導入ケーブル数	2

部材入力

部材	部材	KX0(kN/m)	KY0(kN/m)	KR0(kNm/rad)	KX1(kN/m)	KY1(kN/m)	KR1(kNm/rad)
45	54	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

載荷荷重の入力

0 - 1	LOAD	C1	C2	C3	C4
55 55	1	0.000	301.669	0.000	0.000
49 49	1	0.000	35.790	0.000	0.000

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
61.725	79.475	4	1	1	0.001	0.001	0
61.725	79.475	4	2	1	0.001	0.001	0

* STAGE 6 *

変更する部材数	0
変更する支点数	0
載荷する荷重数	0
架設用荷重数	0
導入ケーブル数	2

プレストレスケーブルの入力

X0(m)	X1(m)	本数	C.番号	連続			グラウト
-0.225	79.475	4	3	0	0.001	0.001	0
-0.225	79.475	4	4	0	0.001	0.001	0

```
***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns                ***

* 橋面工 *
    0 -  1 LOAD      C1          C2          C3          C4
    1   54    3     55.315      55.315       0.000       0.000

* 温度 *
年変化 T(℃)= 10.000
                        * 日変化 *
    0 -  1     ALF      T(℃) TYPE    AF(m2)      EF(m)
    1   54    10.000     5.000    0    0.0000      0.0000

* 雪荷重 *

    0 -  1 LOAD      C1          C2          C3          C4

* 地震 *     震度      0.270

* 地震 *     震度      0.000

* 活荷重  TL25 *

LP1(m)=    10.000        P1(S)/P1(M)= 1.20

    0 -  1  P1(kN/m2)  P2(kN/m2)   主載荷(m)   従載荷(M) P(kN)/T.L.  台数/T.L.   群集(kN/m)
    1   55     13.500       4.725      11.000       0.000    200.000      3.000       0.000

    0 -  1    0 -  1   衝撃(L)   衝撃(T)  T荷重割増 P1(N)/P1(M)
    1   54    1   55     0.222      0.286      1.500      0.000
```

Superimposed Dead Load

Temperature
Temperature Change Year T(deg)
Temperature Change Day T(deg)

Snow Load

Earthquake Seismic Coefficient after Completion
Earthquake Seismic Coefficient under Construction

Live Load TL25

Main Live Loading width Sub Live Loading width Number of vehicle Sidewalk Live Lo

Impact (L) Impact (T) Increasing coefficient for T Load

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

各ステージに費やした日数（日）
1)　30　　2)　15　　3)　15　　4)　15　　5)　15　　6)　15

構造系完成～橋面工施工　　（日）　30
橋面工施工～最初の活荷重載荷（日）　30

***

Days for each construction Stage

From immediately after Completion to Superimposed Dead Loading (day)
From superimposed Dead Loading to initial Live Loading

2.4 PRE-STRESSING

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns . ***

* PRESTRESS *

	AP (cm2)	DUCT (cm)	RAM (1/m)	RMU (1/rad)	SET (mm)	RELAX (%)	EP (N/mm2)	SIGPY (N/mm2)	KP	SIGPU (N/mm2)	---- EPS, SIGPS(N/mm2) S=1-3					
1	11.845	7.60	0.004	0.300	8.0	1.5	200000.	0.	1	1860.	0.00000	0.0	0.00000	0.0	0.00000	0.0

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 1 (upper) - 1
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

Number of Cable | Direction of Pre-stressing to be given (From both side/left/right) | Pre-stress at Jack

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	-0.2250	0.1800				
			3.6280	3.6553	0.0000	0.0000
2	3.4030	0.6255				
			1.2187	1.2217	10.0000	6.9999
3	4.6217	0.7000				
			4.4678	4.4678	0.0000	0.0000
4	9.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
5	9.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
6	16.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
7	17.2242	0.1800				
			3.3018	3.3018	0.0000	0.0000
8	20.5260	0.1800				
			0.6971	0.6977	-10.0000	3.9975
9	21.2231	0.2043				
			0.5019	0.5031	0.0000	0.0000
10	21.7250	0.2394				

* L(m) = 21.9997

セットロス範囲 右端から 12.5965(m)

Range of set-loss for Pre-stressing | From Pre-stressing side

POINT	X(m)	Y(m)	SIGPH	SIGPV
1	0.0000	0.2076	1046.006	128.432
2	0.8000	0.3059	1049.400	128.849
3	2.0000	0.4532	1054.491	129.474
4	2.6250	0.5299	1057.143	129.800
5	3.8750	0.6721	1082.924	81.091
6	5.8750	0.7000	1119.355	0.000
7	7.8750	0.7000	1128.345	0.000
8	9.8750	0.6695	1106.501	-77.375
9	11.8750	0.5296	1097.086	-76.716
10	13.8750	0.3898	1087.671	-76.058
11	15.8750	0.2499	1078.256	-75.399
12	16.1250	0.2324	1077.079	-75.317
13	17.8750	0.1800	1045.960	0.000
14	18.8750	0.1800	1041.042	0.000
15	19.8750	0.1800	1036.124	0.000
16	21.6250	0.2324	998.730	69.793

Cable 1 (upper) - 2
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	21.7250	0.2394				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 1 (upper) - 2
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
			6.2379	6.2531	0.0000	0.0000
2	27.9629	0.6756				
			0.6976	0.6982	10.0000	4.0004
3	28.6605	0.7000				
			0.4289	0.4289	0.0000	0.0000
4	29.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
5	29.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
6	36.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
7	37.2242	0.1800				
			3.3018	3.3018	0.0000	0.0000
8	40.5260	0.1800				
			0.6971	0.6977	-10.0000	3.9975
9	41.2231	0.2043				
			0.5019	0.5031	0.0000	0.0000
10	41.7250	0.2394				

* L(m) = 20.0352

セットロス範囲 右端から 12.5965(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
17	21.8750	0.2499	1076.033	75.250
18	22.8750	0.3198	1080.399	75.556
19	24.8750	0.4597	1089.132	76.166
20	26.8750	0.5996	1097.865	76.777
21	28.8750	0.7000	1132.832	0.000
22	30.8750	0.5996	1101.793	-77.045
23	32.8750	0.4597	1092.379	-76.387
24	34.8750	0.3199	1082.964	-75.729
25	35.8750	0.2499	1078.256	-75.399
26	36.1250	0.2324	1077.079	-75.317
27	37.8750	0.1800	1045.960	0.000
28	38.8750	0.1800	1041.042	0.000
29	39.8750	0.1800	1036.124	0.000
30	41.6250	0.2324	998.730	69.794

Cable 1 (upper) - 3
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	41.7250	0.2394				
			6.2379	6.2531	0.0000	0.0000
2	47.9629	0.6756				
			0.6976	0.6982	10.0000	4.0004
3	48.6605	0.7000				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 1 (upper) - 4
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
			3.6280	3.6553	0.0000	0.0000
6	79.4750	0.1800				

* L(m) = 17.7961

セットロス範囲 右端から 11.8620(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
45	61.8750	0.2499	1114.499	77.940
46	63.8750	0.3898	1123.544	78.573
47	65.8750	0.5296	1132.589	79.205
48	67.8750	0.6695	1139.264	79.672
49	69.8750	0.7000	1108.383	0.000
50	71.8750	0.7000	1098.892	0.000
51	73.8750	0.7000	1089.400	0.000
52	75.1250	0.6877	1063.755	-52.905
53	76.8750	0.4992	1022.004	-125.485
54	78.0750	0.3519	1015.952	-124.742
55	78.8750	0.2537	1011.918	-124.247

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 1 (upper) - 3
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
			0.4290	0.4290	0.0000	0.0000
4	49.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
5	49.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
6	56.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
7	57.2242	0.1800				
			3.3018	3.3018	0.0000	0.0000
8	60.5260	0.1800				
			0.6971	0.6977	-10.0000	3.9975
9	61.2231	0.2043				
			0.5019	0.5031	0.0000	0.0000
10	61.7250	0.2394				

* L(m) = 20.0352

セットロス範囲 右端から 12.5965(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
31	41.8750	0.2499	1076.033	75.250
32	42.8750	0.3198	1080.399	75.556
33	44.8750	0.4597	1089.132	76.166
34	46.8750	0.5996	1097.865	76.777
35	48.8750	0.7000	1132.832	0.000
36	50.8750	0.5996	1101.793	-77.045
37	52.8750	0.4597	1092.379	-76.387
38	54.8750	0.3199	1082.964	-75.729
39	55.8750	0.2499	1078.256	-75.399
40	56.1250	0.2324	1077.079	-75.317
41	57.8750	0.1800	1045.960	0.000
42	58.8750	0.1800	1041.042	0.000
43	59.8750	0.1800	1036.124	0.000
44	61.6250	0.2324	998.730	69.794

Cable 1 (upper) - 4
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	61.7250	0.2394				
			6.2379	6.2531	0.0000	0.0000
2	67.9629	0.6756				
			0.6976	0.6982	10.0000	4.0003
3	68.6605	0.7000				
			5.9677	5.9677	0.0000	0.0000
4	74.6283	0.7000				
			1.2187	1.2217	10.0000	6.9999
5	75.8470	0.6255				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 1 (upper) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
1	4	0.208	1046.006	128.432
2	4	0.306	1049.400	128.849
3	4	0.453	1054.491	129.474
4	4	0.530	1057.143	129.800
5	4	0.672	1082.924	81.091
6	4	0.700	1119.355	0.000
7	4	0.700	1128.345	0.000
8	4	0.669	1106.501	-77.375
9	4	0.530	1097.086	-76.716
10	4	0.390	1087.671	-76.058
11	4	0.250	1078.256	-75.399
12	4	0.232	1077.079	-75.317
13	4	0.180	1045.960	0.000
14	4	0.180	1041.042	0.000
15	4	0.180	1036.124	0.000
16	4	0.232	998.730	69.793
17	4	0.250	1076.033	75.250
18	4	0.320	1080.399	75.556
19	4	0.460	1089.132	76.166
20	4	0.600	1097.865	76.777
21	4	0.700	1132.832	0.000
22	4	0.600	1101.793	-77.045
23	4	0.460	1092.379	-76.387
24	4	0.320	1082.964	-75.729
25	4	0.250	1078.256	-75.399
26	4	0.232	1077.079	-75.317
27	4	0.180	1045.960	0.000
28	4	0.180	1041.042	0.000
29	4	0.180	1036.124	0.000
30	4	0.232	998.730	69.794
31	4	0.250	1076.033	75.250
32	4	0.320	1080.399	75.556
33	4	0.460	1089.132	76.166
34	4	0.600	1097.865	76.777
35	4	0.700	1132.832	0.000
36	4	0.600	1101.793	-77.045
37	4	0.460	1092.379	-76.387
38	4	0.320	1082.964	-75.729
39	4	0.250	1078.256	-75.399
40	4	0.232	1077.079	-75.317
41	4	0.180	1045.960	0.000
42	4	0.180	1041.042	0.000
43	4	0.180	1036.124	0.000
44	4	0.232	998.730	69.794
45	4	0.250	1114.499	77.940
46	4	0.390	1123.544	78.573
47	4	0.530	1132.589	79.205
48	4	0.669	1139.264	79.672
49	4	0.700	1108.383	0.000
50	4	0.700	1098.892	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 1 (upper) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
51	4	0.700	1089.400	0.000
52	4	0.688	1063.755	-52.905
53	4	0.499	1022.004	-125.485
54	4	0.352	1015.952	-124.742
55	4	0.254	1011.918	-124.247

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 2 (lower) - 1
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	-0.2250	0.9000				
			12.1191	12.1191	0.0000	0.0000
2	11.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
3	12.6253	0.8553				
			5.1354	5.1740	0.0000	0.0000
4	17.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
5	18.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
6	19.1528	0.1800				
			0.9386	0.9425	-6.0000	8.9998
7	20.0914	0.2539				
			1.6336	1.6540	0.0000	0.0000
8	21.7250	0.5126				

* L(m) = 22.0164

セットロス範囲 右端から 9.6797(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
1	0.0000	0.9000	1031.945	0.000
2	0.8000	0.9000	1035.326	0.000
3	2.0000	0.9000	1040.396	0.000
4	2.6250	0.9000	1043.037	0.000
5	3.8750	0.9000	1048.319	0.000
6	5.8750	0.9000	1056.771	0.000
7	7.8750	0.9000	1065.222	0.000
8	9.8750	0.9000	1073.673	0.000
9	11.8750	0.9000	1082.124	0.000
10	13.8750	0.7018	1043.017	-128.067
11	15.8750	0.4563	1033.916	-126.950
12	16.1250	0.4256	1032.779	-126.810
13	17.8750	0.2118	1020.346	-105.481
14	18.8750	0.1800	984.788	0.000
15	19.8750	0.2236	928.489	112.578
16	21.6250	0.4968	901.755	142.821

Cable 2 (lower) - 2
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	21.7250	0.5126				
			1.9795	2.0042	0.0000	0.0000
2	23.7045	0.8261				
			0.9386	0.9425	6.0000	9.0002
3	24.6431	0.9000				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 2 (lower) - 2
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
			7.2510	7.2510	0.0000	0.0000
4	31.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
5	32.6253	0.8553				
			5.1354	5.1740	0.0000	0.0000
6	37.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
7	38.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
8	39.1528	0.1800				
			0.9386	0.9425	-6.0000	8.9998
9	40.0914	0.2539				
			1.6336	1.6540	0.0000	0.0000
10	41.7250	0.5126				

* L(m) = 20.0950

セットロス範囲 右端から 9.6797(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
17	21.8750	0.5364	979.519	155.144
18	22.8750	0.6947	983.499	155.774
19	24.8750	0.9000	1052.257	0.000
20	26.8750	0.9000	1060.790	0.000
21	28.8750	0.9000	1069.323	0.000
22	30.8750	0.9000	1077.857	0.000
23	32.8750	0.8246	1047.568	-128.626
24	34.8750	0.5791	1038.467	-127.508
25	35.8750	0.4563	1033.916	-126.950
26	36.1250	0.4256	1032.779	-126.810
27	37.8750	0.2118	1020.346	-105.481
28	38.8750	0.1800	984.788	0.000
29	39.8750	0.2236	928.489	112.577
30	41.6250	0.4968	901.755	142.821

Cable 2 (lower) - 3
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	41.7250	0.5126				
			1.9795	2.0042	0.0000	0.0000
2	43.7045	0.8261				
			0.9386	0.9425	6.0000	9.0001
3	44.6431	0.9000				
			7.2510	7.2510	0.0000	0.0000
4	51.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
5	52.6253	0.8553				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 2 (lower) - 3
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(')
			5.1354	5.1740	0.0000	0.0000
6	57.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
7	58.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
8	59.1528	0.1800				
			0.9386	0.9425	-6.0000	8.9998
9	60.0914	0.2539				
			1.6336	1.6540	0.0000	0.0000
10	61.7250	0.5126				

* L(m) = 20.0950

セットロス範囲 右端から 9.6797(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
31	41.8750	0.5364	979.519	155.143
32	42.8750	0.6947	983.500	155.774
33	44.8750	0.9000	1052.257	0.000
34	46.8750	0.9000	1060.790	0.000
35	48.8750	0.9000	1069.323	0.000
36	50.8750	0.9000	1077.857	0.000
37	52.8750	0.8246	1047.568	-128.626
38	54.8750	0.5791	1038.467	-127.508
39	55.8750	0.4563	1033.916	-126.950
40	56.1250	0.4256	1032.779	-126.810
41	57.8750	0.2118	1020.346	-105.481
42	58.8750	0.1800	984.788	0.000
43	59.8750	0.2236	928.489	112.577
44	61.6250	0.4968	901.755	142.821

Cable 2 (lower) - 4
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(')
1	61.7250	0.5126				
			1.9795	2.0042	0.0000	0.0000
2	63.7045	0.8261				
			0.9386	0.9425	6.0000	9.0002
3	64.6431	0.9000				
			14.8319	14.8319	0.0000	0.0000
4	79.4750	0.9000				

* L(m) = 17.7785

セットロス範囲 右端から 15.1038(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
45	61.8750	0.5364	1115.161	176.628
46	63.8750	0.8506	1138.796	146.998

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 2 (lower) - 4
本数 4 右引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	SIGPH	SIGPV
47	65.8750	0.9000	1156.365	0.000
48	67.8750	0.9000	1146.501	0.000
49	69.8750	0.9000	1136.636	0.000
50	71.8750	0.9000	1126.772	0.000
51	73.8750	0.9000	1116.907	0.000
52	75.1250	0.9000	1110.742	0.000
53	76.8750	0.9000	1102.110	0.000
54	78.0750	0.9000	1096.192	0.000
55	78.8750	0.9000	1092.246	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 2 (lower) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
1	4	0.900	1031.945	0.000
2	4	0.900	1035.326	0.000
3	4	0.900	1040.396	0.000
4	4	0.900	1043.037	0.000
5	4	0.900	1048.319	0.000
6	4	0.900	1056.771	0.000
7	4	0.900	1065.222	0.000
8	4	0.900	1073.673	0.000
9	4	0.900	1082.124	0.000
10	4	0.702	1043.017	-128.067
11	4	0.456	1033.916	-126.950
12	4	0.426	1032.779	-126.810
13	4	0.212	1020.346	-105.481
14	4	0.180	984.788	0.000
15	4	0.224	928.489	112.578
16	4	0.497	901.755	142.821
17	4	0.536	979.519	155.144
18	4	0.695	983.499	155.774
19	4	0.900	1052.257	0.000
20	4	0.900	1060.790	0.000
21	4	0.900	1069.323	0.000
22	4	0.900	1077.857	0.000
23	4	0.825	1047.568	-128.626
24	4	0.579	1038.467	-127.508
25	4	0.456	1033.916	-126.950
26	4	0.426	1032.779	-126.810
27	4	0.212	1020.346	-105.481
28	4	0.180	984.788	0.000
29	4	0.224	928.489	112.577
30	4	0.497	901.755	142.821
31	4	0.536	979.519	155.143
32	4	0.695	983.500	155.774
33	4	0.900	1052.257	0.000
34	4	0.900	1060.790	0.000
35	4	0.900	1069.323	0.000
36	4	0.900	1077.857	0.000
37	4	0.825	1047.568	-128.626
38	4	0.579	1038.467	-127.508
39	4	0.456	1033.916	-126.950
40	4	0.426	1032.779	-126.810
41	4	0.212	1020.346	-105.481
42	4	0.180	984.788	0.000
43	4	0.224	928.489	112.577
44	4	0.497	901.755	142.821
45	4	0.536	1115.161	176.628
46	4	0.851	1138.796	146.998
47	4	0.900	1156.365	0.000
48	4	0.900	1146.501	0.000
49	4	0.900	1136.636	0.000
50	4	0.900	1126.772	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 2 (lower) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
51	4	0.900	1116.907	0.000
52	4	0.900	1110.742	0.000
53	4	0.900	1102.110	0.000
54	4	0.900	1096.192	0.000
55	4	0.900	1092.246	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 3 (upper) - 1
本数 4 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	-0.2250	0.1800				
			3.6280	3.6553	0.0000	0.0000
2	3.4030	0.6255				
			1.2187	1.2217	10.0000	6.9999
3	4.6217	0.7000				
			4.4678	4.4678	0.0000	0.0000
4	9.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
5	9.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
6	16.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
7	17.2242	0.1800				
			3.3016	3.3016	0.0000	0.0000
8	20.5258	0.1800				
			0.6976	0.6981	-10.0000	4.0000
9	21.2234	0.2044				
			6.7396	6.7560	0.0000	0.0000
10	27.9629	0.6756				
			0.6976	0.6981	10.0000	4.0000
11	28.6605	0.7000				
			0.4290	0.4290	0.0000	0.0000
12	29.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
13	29.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
14	36.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
15	37.2242	0.1800				
			3.3016	3.3016	0.0000	0.0000
16	40.5258	0.1800				
			0.6976	0.6981	-10.0000	4.0000
17	41.2234	0.2044				
			6.7396	6.7560	0.0000	0.0000
18	47.9629	0.6756				
			0.6976	0.6981	10.0000	4.0000
19	48.6605	0.7000				
			0.4290	0.4290	0.0000	0.0000
20	49.0895	0.7000				
			0.6976	0.6981	10.0000	4.0000
21	49.7871	0.6756				
			6.7396	6.7560	0.0000	0.0000
22	56.5266	0.2044				
			0.6976	0.6981	-10.0000	4.0000
23	57.2242	0.1800				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 3 (upper) - 1
本数 4 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(')
			3.3016	3.3016	0.0000	0.0000
24	60.5258	0.1800				
			0.6976	0.6981	-10.0000	4.0000
25	61.2234	0.2044				
			6.7396	6.7560	0.0000	0.0000
26	67.9629	0.6756				
			0.6976	0.6981	10.0000	4.0000
27	68.6605	0.7000				
			5.9678	5.9678	0.0000	0.0000
28	74.6283	0.7000				
			1.2187	1.2217	10.0000	6.9999
29	75.8470	0.6255				
			3.6280	3.6553	0.0000	0.0000
30	79.4750	0.1800				

* L(m) = 79.8661

セットロス範囲 左端から 12.5295(m) 右端から 11.8627(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
1	0.0000	0.2076	1004.087	123.285
2	0.8000	0.3059	1008.121	123.781
3	2.0000	0.4532	1014.173	124.524
4	2.6250	0.5299	1017.325	124.911
5	3.8750	0.6721	1045.711	78.304
6	5.8750	0.7000	1085.807	0.000
7	7.8750	0.7000	1095.326	0.000
8	9.8750	0.6695	1126.422	-78.768
9	11.8750	0.5296	1135.512	-79.403
10	13.8750	0.3898	1130.326	-79.041
11	15.8750	0.2499	1121.236	-78.405
12	16.1250	0.2324	1120.100	-78.325
13	17.8750	0.1800	1091.878	0.000
14	18.8750	0.1800	1087.528	0.000
15	19.8750	0.1800	1083.178	0.000
16	21.6250	0.2324	1050.763	73.477
17	21.8750	0.2499	1049.722	73.404
18	22.8750	0.3199	1045.559	73.113
19	24.8750	0.4597	1037.232	72.531
20	26.8750	0.5996	1028.905	71.948
21	28.8750	0.7000	1001.929	0.000
22	30.8750	0.5996	971.009	-67.900
23	32.8750	0.4597	963.293	-67.360
24	34.8750	0.3199	955.577	-66.821
25	35.8750	0.2499	951.719	-66.551
26	36.1250	0.2324	950.754	-66.484
27	37.8750	0.1800	926.800	0.000
28	38.8750	0.1800	923.107	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 3 (upper) - 1
本数 4 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	SIGPH	SIGPV
29	39.8750	0.1800	921.256	0.000
30	41.6250	0.2324	945.067	66.086
31	41.8750	0.2499	946.026	66.153
32	42.8750	0.3199	949.861	66.421
33	44.8750	0.4597	957.531	66.957
34	46.8750	0.5996	965.201	67.494
35	48.8750	0.7000	995.936	0.000
36	50.8750	0.5996	1022.750	-71.518
37	52.8750	0.4597	1031.027	-72.097
38	54.8750	0.3199	1039.304	-72.676
39	55.8750	0.2499	1043.443	-72.965
40	56.1250	0.2324	1044.478	-73.037
41	57.8750	0.1800	1076.699	0.000
42	58.8750	0.1800	1081.023	0.000
43	59.8750	0.1800	1085.347	0.000
44	61.6250	0.2324	1113.399	77.857
45	61.8750	0.2499	1114.529	77.936
46	63.8750	0.3898	1123.565	78.568
47	65.8750	0.5296	1132.601	79.200
48	67.8750	0.6695	1139.262	79.665
49	69.8750	0.7000	1108.383	0.000
50	71.8750	0.7000	1098.892	0.000
51	73.8750	0.7000	1089.401	0.000
52	75.1250	0.6877	1063.755	-52.905
53	76.8750	0.4992	1022.004	-125.485
54	78.0750	0.3519	1015.952	-124.742
55	78.8750	0.2537	1011.918	-124.247

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 3 (upper) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
1	4	0.208	1004.087	123.285
2	4	0.306	1008.121	123.781
3	4	0.453	1014.173	124.524
4	4	0.530	1017.325	124.911
5	4	0.672	1045.711	78.304
6	4	0.700	1085.807	0.000
7	4	0.700	1095.326	0.000
8	4	0.669	1126.422	-78.768
9	4	0.530	1135.512	-79.403
10	4	0.390	1130.326	-79.041
11	4	0.250	1121.236	-78.405
12	4	0.232	1120.100	-78.325
13	4	0.180	1091.878	0.000
14	4	0.180	1087.528	0.000
15	4	0.180	1083.178	0.000
16	4	0.232	1050.763	73.477
17	4	0.250	1049.722	73.404
18	4	0.320	1045.559	73.113
19	4	0.460	1037.232	72.531
20	4	0.600	1028.905	71.948
21	4	0.700	1001.929	0.000
22	4	0.600	971.009	-67.900
23	4	0.460	963.293	-67.360
24	4	0.320	955.577	-66.821
25	4	0.250	951.719	-66.551
26	4	0.232	950.754	-66.484
27	4	0.180	926.800	0.000
28	4	0.180	923.107	0.000
29	4	0.180	921.256	0.000
30	4	0.232	945.067	66.086
31	4	0.250	946.026	66.153
32	4	0.320	949.861	66.421
33	4	0.460	957.531	66.957
34	4	0.600	965.201	67.494
35	4	0.700	995.936	0.000
36	4	0.600	1022.750	-71.518
37	4	0.460	1031.027	-72.097
38	4	0.320	1039.304	-72.676
39	4	0.250	1043.443	-72.965
40	4	0.232	1044.478	-73.037
41	4	0.180	1076.699	0.000
42	4	0.180	1081.023	0.000
43	4	0.180	1085.347	0.000
44	4	0.232	1113.399	77.857
45	4	0.250	1114.529	77.936
46	4	0.390	1123.565	78.568
47	4	0.530	1132.601	79.200
48	4	0.669	1139.262	79.665
49	4	0.700	1108.383	0.000
50	4	0.700	1098.892	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 3 (upper) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
51	4	0.700	1089.401	0.000
52	4	0.688	1063.755	-52.905
53	4	0.499	1022.004	-125.485
54	4	0.352	1015.952	-124.742
55	4	0.254	1011.918	-124.247

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 4 (lower) - 1
本数 2 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
1	-0.2250	0.9000				
			12.1191	12.1191	0.0000	0.0000
2	11.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
3	12.6253	0.8553				
			5.1354	5.1740	0.0000	0.0000
4	17.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
5	18.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
6	19.1528	0.1800				
			0.9386	0.9425	-6.0000	9.0000
7	20.0914	0.2539				
			3.6131	3.6581	0.0000	0.0000
8	23.7045	0.8261				
			0.9386	0.9425	6.0000	9.0000
9	24.6431	0.9000				
			7.2510	7.2510	0.0000	0.0000
10	31.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
11	32.6253	0.8553				
			5.1354	5.1740	0.0000	0.0000
12	37.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
13	38.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
14	39.1528	0.1800				
			0.9386	0.9425	-6.0000	9.0000
15	40.0914	0.2539				
			3.6131	3.6581	0.0000	0.0000
16	43.7045	0.8261				
			0.9386	0.9425	6.0000	9.0000
17	44.6431	0.9000				
			7.2510	7.2510	0.0000	0.0000
18	51.8941	0.9000				
			0.7312	0.7330	6.0000	7.0000
19	52.6253	0.8553				
			5.1354	5.1740	0.0000	0.0000
20	57.7608	0.2247				
			0.7312	0.7330	-6.0000	7.0000
21	58.4920	0.1800				
			0.6608	0.6608	0.0000	0.0000
22	59.1528	0.1800				
			0.9386	0.9425	-6.0000	9.0000
23	60.0914	0.2539				

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 4 (lower) - 1
本数 2 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(°)
			3.6131	3.6581	0.0000	0.0000
24	63.7045	0.8261				
			0.9386	0.9425	6.0000	9.0000
25	64.6431	0.9000				
			14.8319	14.8319	0.0000	0.0000
26	79.4750	0.9000				

* L(m) = 79.9850

セットロス範囲 左端から 12.6667(m) 右端から 15.1038(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
1	0.0000	0.9000	1080.589	0.000
2	0.8000	0.9000	1084.556	0.000
3	2.0000	0.9000	1090.507	0.000
4	2.6250	0.9000	1093.606	0.000
5	3.8750	0.9000	1099.805	0.000
6	5.8750	0.9000	1109.723	0.000
7	7.8750	0.9000	1119.640	0.000
8	9.8750	0.9000	1129.558	0.000
9	11.8750	0.9000	1139.475	0.000
10	13.8750	0.7018	1148.524	-141.022
11	15.8750	0.4563	1139.316	-139.891
12	16.1250	0.4256	1138.165	-139.750
13	17.8750	0.2118	1126.216	-116.425
14	18.8750	0.1800	1093.239	0.000
15	19.8750	0.2236	1042.693	126.426
16	21.6250	0.4968	1018.740	161.352
17	21.8750	0.5364	1017.709	161.189
18	22.8750	0.6947	1013.588	160.537
19	24.8750	0.9000	971.123	0.000
20	26.8750	0.9000	963.459	0.000
21	28.8750	0.9000	955.794	0.000
22	30.8750	0.9000	948.130	0.000
23	32.8750	0.8246	899.916	-110.496
24	34.8750	0.5791	892.730	-109.614
25	35.8750	0.4563	889.137	-109.173
26	36.1250	0.4256	888.239	-109.063
27	37.8750	0.2118	878.913	-90.860
28	38.8750	0.1800	853.178	0.000
29	39.8750	0.2236	858.497	104.093
30	41.6250	0.4968	869.428	137.704
31	41.8750	0.5364	870.309	137.843
32	42.8750	0.6947	873.834	138.402
33	44.8750	0.9000	934.913	0.000
34	46.8750	0.9000	942.494	0.000
35	48.8750	0.9000	950.076	0.000
36	50.8750	0.9000	957.658	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 4 (lower) - 1
本数 2 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	SIGPH	SIGPV
37	52.8750	0.8246	993.899	-122.036
38	54.8750	0.5791	1001.985	-123.029
39	55.8750	0.4563	1006.028	-123.525
40	56.1250	0.4256	1007.039	-123.649
41	57.8750	0.2118	1022.259	-105.679
42	58.8750	0.1800	1064.131	0.000
43	59.8750	0.2236	1100.054	133.381
44	61.6250	0.4968	1114.061	176.450
45	61.8750	0.5364	1115.190	176.629
46	63.8750	0.8506	1138.797	146.997
47	65.8750	0.9000	1156.365	0.000
48	67.8750	0.9000	1146.500	0.000
49	69.8750	0.9000	1136.636	0.000
50	71.8750	0.9000	1126.771	0.000
51	73.8750	0.9000	1116.907	0.000
52	75.1250	0.9000	1110.742	0.000
53	76.8750	0.9000	1102.110	0.000
54	78.0750	0.9000	1096.192	0.000
55	78.8750	0.9000	1092.246	0.000

Cable 4 (lower) - 2
本数 2 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	DX(m)	L(m)	R(m)	ALPHA(')
1	-0.2250	0.9000				
			79.7000	79.7000	0.0000	0.0000
2	79.4750	0.9000				

* L(m) = 79.7000

セットロス範囲 左端から 19.1789(m) 右端から 19.1789(m)

POINT	X(m)	Y(m)	SIGPH	SIGPV
1	0.0000	0.9000	1104.128	0.000
2	0.8000	0.9000	1107.608	0.000
3	2.0000	0.9000	1112.828	0.000
4	2.6250	0.9000	1115.547	0.000
5	3.8750	0.9000	1120.984	0.000
6	5.8750	0.9000	1129.684	0.000
7	7.8750	0.9000	1138.383	0.000
8	9.8750	0.9000	1147.083	0.000
9	11.8750	0.9000	1155.783	0.000
10	13.8750	0.9000	1164.482	0.000
11	15.8750	0.9000	1173.182	0.000
12	16.1250	0.9000	1174.270	0.000
13	17.8750	0.9000	1181.882	0.000
14	18.8750	0.9000	1186.232	0.000
15	19.8750	0.9000	1182.568	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

Cable 4 (lower) - 2
本数 2 両引 ジャッキ端 (N/mm2) 1270.000

POINT	X(m)	Y(m)	SIGPH	SIGPV
16	21.6250	0.9000	1174.956	0.000
17	21.8750	0.9000	1173.868	0.000
18	22.8750	0.9000	1169.518	0.000
19	24.8750	0.9000	1160.819	0.000
20	26.8750	0.9000	1152.119	0.000
21	28.8750	0.9000	1143.419	0.000
22	30.8750	0.9000	1134.719	0.000
23	32.8750	0.9000	1126.020	0.000
24	34.8750	0.9000	1117.320	0.000
25	35.8750	0.9000	1112.970	0.000
26	36.1250	0.9000	1111.883	0.000
27	37.8750	0.9000	1104.271	0.000
28	38.8750	0.9000	1099.921	0.000
29	39.8750	0.9000	1097.746	0.000
30	41.6250	0.9000	1105.358	0.000
31	41.8750	0.9000	1106.445	0.000
32	42.8750	0.9000	1110.795	0.000
33	44.8750	0.9000	1119.495	0.000
34	46.8750	0.9000	1128.195	0.000
35	48.8750	0.9000	1136.894	0.000
36	50.8750	0.9000	1145.594	0.000
37	52.8750	0.9000	1154.294	0.000
38	54.8750	0.9000	1162.994	0.000
39	55.8750	0.9000	1167.343	0.000
40	56.1250	0.9000	1168.431	0.000
41	57.8750	0.9000	1176.043	0.000
42	58.8750	0.9000	1180.393	0.000
43	59.8750	0.9000	1184.743	0.000
44	61.6250	0.9000	1180.794	0.000
45	61.8750	0.9000	1179.707	0.000
46	63.8750	0.9000	1171.007	0.000
47	65.8750	0.9000	1162.307	0.000
48	67.8750	0.9000	1153.608	0.000
49	69.8750	0.9000	1144.908	0.000
50	71.8750	0.9000	1136.208	0.000
51	73.8750	0.9000	1127.509	0.000
52	75.1250	0.9000	1122.071	0.000
53	76.8750	0.9000	1114.459	0.000
54	78.0750	0.9000	1109.239	0.000
55	78.8750	0.9000	1105.759	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 4 (lower) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
1	4	0.900	1092.359	0.000
2	4	0.900	1096.082	0.000
3	4	0.900	1101.667	0.000
4	4	0.900	1104.576	0.000
5	4	0.900	1110.394	0.000
6	4	0.900	1119.703	0.000
7	4	0.900	1129.012	0.000
8	4	0.900	1138.320	0.000
9	4	0.900	1147.629	0.000
10	4	0.802	1156.503	-70.511
11	4	0.681	1156.249	-69.946
12	4	0.666	1156.217	-69.875
13	4	0.564	1154.049	-58.213
14	4	0.555	1139.735	0.000
15	4	0.583	1112.631	63.213
16	4	0.713	1096.848	80.676
17	4	0.731	1095.789	80.595
18	4	0.805	1091.553	80.268
19	4	0.900	1065.971	0.000
20	4	0.900	1057.789	0.000
21	4	0.900	1049.607	0.000
22	4	0.900	1041.425	0.000
23	4	0.867	1012.968	-55.248
24	4	0.757	1005.025	-54.807
25	4	0.703	1001.054	-54.586
26	4	0.689	1000.061	-54.531
27	4	0.595	991.592	-45.430
28	4	0.585	976.549	0.000
29	4	0.603	978.121	52.046
30	4	0.722	987.393	68.852
31	4	0.740	988.377	68.922
32	4	0.810	992.315	69.201
33	4	0.900	1027.204	0.000
34	4	0.900	1035.345	0.000
35	4	0.900	1043.485	0.000
36	4	0.900	1051.626	0.000
37	4	0.865	1074.096	-61.018
38	4	0.751	1082.489	-61.514
39	4	0.695	1086.686	-61.763
40	4	0.680	1087.735	-61.825
41	4	0.580	1099.151	-52.839
42	4	0.559	1122.262	0.000
43	4	0.574	1142.399	66.691
44	4	0.704	1147.427	88.225
45	4	0.723	1147.448	88.314
46	4	0.876	1154.902	73.498
47	4	0.900	1159.336	0.000
48	4	0.900	1150.054	0.000
49	4	0.900	1140.772	0.000
50	4	0.900	1131.490	0.000

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* Cable * 4 (lower) 合計 * 鋼材 種類= 1 WEB 鋼材自重(kN/m/本)= 0.000

SECTION	NUM	YP(m)	SIGPH	SIGPV(N/mm2)
51	4	0.900	1122.208	0.000
52	4	0.900	1116.406	0.000
53	4	0.900	1108.285	0.000
54	4	0.900	1102.715	0.000
55	4	0.900	1099.002	0.000

2.5 UNDER CONSTRUCTION STAGE

2.5.1 Displacement

* 節点 1 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.21	0.0000	0.00	0.21	0.0000	0.00	0.21	0.0000	2.28	0.21	0.1694	-2.28	0.21	-0.1694
2	-3.18	1.31	0.1958	-1.24	1.32	0.1958	-3.18	1.31	-0.3576	20.79	1.41	0.6077	-27.15	1.22	-0.2162
3	-3.30	1.26	0.0115	-3.30	1.33	0.0115	-3.54	1.26	-0.2930	16.78	1.28	0.1312	-23.37	1.23	-0.1082
4	-3.57	1.27	0.0616	-3.57	1.33	0.0616	-4.24	1.27	-0.2800	15.86	1.31	0.2182	-23.00	1.24	-0.0950
5	-3.19	1.27	0.0496	-3.19	1.33	0.0496	-4.37	1.27	-0.2780	10.63	1.29	0.1491	-17.02	1.25	-0.0498
6	1.51	1.43	-1.3692	1.51	1.49	-1.3692	0.34	1.43	-1.6968	15.34	1.45	-1.2698	-12.31	1.40	-1.4686
MAX Stage	6)	6)	2)	6)	6)	2)	6)	6)	1)	2)	6)	2)	1)	6)	5)
	1.51	1.43	0.1958	1.51	1.49	0.1958	0.34	1.43	0.0000	20.79	1.45	0.6077	-2.28	1.40	-0.0498
MIN Stage	4)	1)	6)	4)	1)	6)	5)	1)	6)	1)	1)	6)	2)	1)	6)
	-3.57	0.21	-1.3692	-3.57	0.21	-1.3692	-4.37	0.21	-1.6968	2.28	0.21	-1.2698	-27.15	0.21	-1.4686

* 節点 14 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.21	0.0000	0.00	0.21	0.0000	0.00	0.21	0.0000	2.27	0.21	0.1694	-2.27	0.21	-0.1694
2	-4.10	1.81	-0.7558	-1.61	1.81	-0.2966	-4.10	1.80	-0.7558	19.83	1.90	-0.0406	-28.03	1.71	-1.4710
3	-4.23	2.67	-0.3159	-3.91	2.67	-0.2976	-4.23	2.54	-0.3159	15.82	2.80	-0.1309	-24.28	2.54	-0.5008
4	-4.50	2.59	-0.4117	-4.50	2.59	-0.3210	-4.61	2.53	-0.4117	14.90	2.65	-0.1540	-23.90	2.53	-0.6694
5	-4.13	2.60	-0.3887	-4.13	2.60	-0.3237	-4.74	2.53	-0.3887	9.67	2.66	-0.2282	-17.93	2.54	-0.5492
6	-0.42	2.37	-0.1000	-0.42	2.37	-0.0350	-1.03	2.29	-0.1000	13.38	2.43	0.0605	-14.22	2.31	-0.2605
MAX Stage	1)	3)	1)	1)	3)	1)	1)	3)	1)	2)	3)	1)	1)	5)	1)
	0.00	2.67	0.0000	0.00	2.67	0.0000	0.00	2.54	0.0000	19.83	2.80	0.1694	-2.27	2.54	-0.1694
MIN Stage	4)	1)	2)	4)	1)	5)	5)	1)	2)	1)	1)	5)	2)	1)	2)
	-4.50	0.21	-0.7558	-4.50	0.21	-0.3237	-4.74	0.21	-0.7558	2.27	0.21	-0.2282	-28.03	0.21	-1.4710

* 節点 28 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	2.04	0.20	0.1515	-2.04	0.20	-0.1515
2	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	2.04	0.20	0.1515	-2.04	0.20	-0.1515
3	-0.95	1.75	-0.6354	-0.07	1.81	-0.4270	-0.95	1.75	-0.6354	19.07	1.91	-0.2402	-20.98	1.60	-1.0306
4	-1.24	2.65	-0.1985	-0.78	2.65	-0.1985	-1.24	2.60	-0.2757	18.15	2.69	-0.1139	-20.63	2.60	-0.2831
5	-0.86	2.57	-0.2677	-0.86	2.60	-0.2677	-0.90	2.57	-0.2736	12.91	2.62	-0.1304	-14.63	2.53	-0.4050
6	1.95	2.68	-0.2924	1.95	2.70	-0.2924	1.91	2.68	-0.2983	15.72	2.72	-0.1551	-11.81	2.64	-0.4297
MAX Stage	6)	6)	1)	6)	6)	1)	6)	6)	1)	3)	6)	1)	1)	6)	1)
	1.95	2.68	0.0000	1.95	2.70	0.0000	1.91	2.68	0.0000	19.07	2.72	0.1515	-2.04	2.64	-0.1515
MIN Stage	4)	1)	3)	5)	1)	3)	4)	1)	3)	1)	1)	3)	3)	1)	3)
	-1.24	0.20	-0.6354	-0.86	0.20	-0.4270	-1.24	0.20	-0.6354	2.04	0.20	-0.2402	-20.98	0.20	-1.0306

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* 節点 42 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	2.04	0.20	0.1515	-2.04	0.20	-0.1515
2	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	2.04	0.20	0.1515	-2.04	0.20	-0.1515
3	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	2.04	0.20	0.1515	-2.04	0.20	-0.1515
4	-1.11	1.76	-0.6551	-0.08	1.81	-0.4059	-1.11	1.76	-0.6551	18.25	1.90	-0.2367	-20.47	1.63	-1.0735
5	-0.74	2.67	-0.2660	-0.21	2.67	-0.2660	-0.74	2.62	-0.3069	12.99	2.80	-0.2458	-14.47	2.55	-0.2862
6	1.18	2.60	-0.3686	1.71	2.60	-0.3686	1.18	2.55	-0.4095	14.92	2.73	-0.3484	-12.55	2.47	-0.3888
MAX Stage	6)	5)	1)	6)	5)	1)	6)	5)	1)	4)	5)	1)	1)	5)	1)
	1.18	2.67	0.0000	1.71	2.67	0.0000	1.18	2.62	0.0000	18.25	2.80	0.1515	-2.04	2.55	-0.1515
MIN Stage	4)	1)	4)	5)	1)	4)	4)	1)	4)	1)	1)	6)	4)	1)	4)
	-1.11	0.20	-0.6551	-0.21	0.20	-0.4059	-1.11	0.20	-0.6551	2.04	0.20	-0.3484	-20.47	0.20	-1.0735

* 節点 55 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	1.03	0.15	0.0709	-1.03	0.15	-0.0709
2	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	1.03	0.15	0.0709	-1.03	0.15	-0.0709
3	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	1.03	0.15	0.0709	-1.03	0.15	-0.0709
4	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	1.03	0.15	0.0709	-1.03	0.15	-0.0709
5	-0.50	0.78	-0.1477	0.59	0.80	0.0546	-0.50	0.78	-0.1477	13.16	0.86	0.4844	-14.17	0.70	-0.7799
6	0.41	0.80	0.5446	1.50	0.82	0.7469	0.41	0.80	0.5446	14.08	0.88	1.1767	-13.25	0.72	-0.0876
MAX Stage	6)	6)	6)	6)	6)	6)	6)	6)	6)	6)	6)	6)	1)	6)	1)
	0.41	0.80	0.5446	1.50	0.82	0.7469	0.41	0.80	0.5446	14.08	0.88	1.1767	-1.03	0.72	-0.0709
MIN Stage	5)	1)	5)	1)	1)	1)	5)	1)	5)	1)	1)	1)	5)	1)	5)
	-0.50	0.15	-0.1477	0.00	0.15	0.0000	-0.50	0.15	-0.1477	1.03	0.15	0.0709	-14.17	0.15	-0.7799

* 節点 56 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.21	0.0000	0.00	0.21	0.0000	0.00	0.21	0.0000	2.14	0.21	0.1694	-2.14	0.21	-0.1694
2	0.00	1.31	0.0000	0.00	1.32	0.0000	0.00	1.31	0.0000	2.14	1.41	0.1694	-2.14	1.22	-0.1694
3	0.00	1.26	0.0000	0.00	1.33	0.0000	0.00	1.26	0.0000	2.14	1.28	0.1694	-2.14	1.23	-0.1694
4	0.00	1.27	0.0000	0.00	1.33	0.0000	0.00	1.27	0.0000	2.14	1.31	0.1694	-2.14	1.24	-0.1694
5	0.00	1.27	0.0000	0.00	1.33	0.0000	0.00	1.27	0.0000	2.14	1.29	0.1694	-2.14	1.25	-0.1694
6	0.00	1.43	0.0000	0.00	1.49	0.0000	0.00	1.43	0.0000	2.14	1.45	0.1694	-2.14	1.40	-0.1694
MAX Stage	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)
	0.00	1.43	0.0000	0.00	1.49	0.0000	0.00	1.43	0.0000	2.14	1.45	0.1694	-2.14	1.40	-0.1694
MIN Stage	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
	0.00	0.21	0.0000	0.00	0.21	0.0000	0.00	0.21	0.0000	2.14	0.21	0.1694	-2.14	0.21	-0.1694

* 節点 60 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.19	0.0000	0.00	0.19	0.0000	0.00	0.19	0.0000	1.16	0.19	0.1030	-1.16	0.19	-0.1030
2	0.00	1.12	0.0000	0.00	1.13	0.0000	0.00	1.12	0.0000	1.16	1.20	0.1030	-1.16	1.04	-0.1030
3	0.00	1.08	0.0000	0.00	1.14	0.0000	0.00	1.08	0.0000	1.16	1.10	0.1030	-1.16	1.06	-0.1030
4	0.00	1.09	0.0000	0.00	1.14	0.0000	0.00	1.09	0.0000	1.16	1.12	0.1030	-1.16	1.06	-0.1030
5	0.00	1.09	0.0000	0.00	1.14	0.0000	0.00	1.09	0.0000	1.16	1.11	0.1030	-1.16	1.07	-0.1030
6	0.00	1.22	0.0000	0.00	1.27	0.0000	0.00	1.22	0.0000	1.16	1.24	0.1030	-1.16	1.20	-0.1030
MAX Stage	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)
	0.00	1.22	0.0000	0.00	1.27	0.0000	0.00	1.22	0.0000	1.16	1.24	0.1030	-1.16	1.20	-0.1030
MIN Stage	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
	0.00	0.19	0.0000	0.00	0.19	0.0000	0.00	0.19	0.0000	1.16	0.19	0.1030	-1.16	0.19	-0.1030

* 節点 61 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.21	0.0000	0.00	0.21	0.0000	0.00	0.21	0.0000	2.14	0.21	0.1694	-2.14	0.21	-0.1694
2	-3.48	1.81	-0.7558	-1.36	1.81	-0.2966	-3.48	1.80	-0.7558	19.86	1.90	-0.0406	-26.81	1.71	-1.4711
3	-3.97	2.67	-0.3159	-3.66	2.67	-0.2976	-3.97	2.54	-0.3159	15.92	2.80	-0.1308	-23.87	2.54	-0.5009
4	-4.16	2.59	-0.4117	-4.16	2.59	-0.3210	-4.35	2.53	-0.4117	15.02	2.65	-0.1539	-23.35	2.53	-0.6695
5	-3.81	2.60	-0.3887	-3.81	2.60	-0.3237	-4.47	2.53	-0.3887	9.86	2.66	-0.2282	-17.47	2.54	-0.5492
6	-0.33	2.37	-0.1000	-0.33	2.37	-0.0350	-1.00	2.29	-0.1000	13.33	2.43	0.0605	-14.00	2.31	-0.2605
MAX Stage	1)	3)	1)	1)	3)	1)	1)	3)	1)	2)	3)	1)	1)	5)	1)
	0.00	2.67	0.0000	0.00	2.67	0.0000	0.00	2.54	0.0000	19.86	2.80	0.1694	-2.14	2.54	-0.1694
MIN Stage	4)	1)	2)	4)	1)	5)	5)	1)	2)	1)	1)	5)	2)	1)	2)
	-4.16	0.21	-0.7558	-4.16	0.21	-0.3237	-4.47	0.21	-0.7558	2.14	0.21	-0.2282	-26.81	0.21	-1.4711

* 節点 65 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.19	0.0000	0.00	0.19	0.0000	0.00	0.19	0.0000	1.16	0.19	0.1030	-1.16	0.19	-0.1030
2	-0.68	1.54	-0.1175	-0.27	1.54	-0.0461	-0.68	1.53	-0.1175	13.76	1.62	1.1163	-15.12	1.46	-1.3513
3	-2.01	2.27	-0.1901	-1.84	2.27	-0.1747	-2.01	2.16	-0.1901	11.27	2.38	0.9052	-15.29	2.16	-1.2854
4	-1.92	2.20	-0.1910	-1.92	2.20	-0.1910	-2.26	2.15	-0.2106	10.70	2.25	0.8572	-14.55	2.15	-1.2391
5	-1.73	2.21	-0.1733	-1.73	2.21	-0.1733	-2.33	2.15	-0.2172	7.34	2.26	0.5759	-10.80	2.16	-0.9225
6	0.00	2.01	-0.0085	0.00	2.01	-0.0085	-0.61	1.95	-0.0524	9.07	2.06	0.7407	-9.07	1.96	-0.7577
MAX Stage	1)	3)	1)	1)	3)	1)	1)	3)	1)	2)	3)	2)	1)	5)	1)
	0.00	2.27	0.0000	0.00	2.27	0.0000	0.00	2.16	0.0000	13.76	2.38	1.1163	-1.16	2.16	-0.1030
MIN Stage	3)	1)	4)	4)	1)	4)	5)	1)	5)	1)	1)	1)	3)	1)	2)
	-2.01	0.19	-0.1910	-1.92	0.19	-0.1910	-2.33	0.19	-0.2172	1.16	0.19	0.1030	-15.29	0.19	-1.3513

* 節点 66 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	1.92	0.20	0.1515	-1.92	0.20	-0.1515
2	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	1.92	0.20	0.1515	-1.92	0.20	-0.1515
3	-0.43	1.75	-0.6354	0.29	1.81	-0.4270	-0.43	1.75	-0.6354	19.27	1.91	-0.2401	-20.13	1.60	-1.0306
4	-1.08	2.65	-0.1985	-0.55	2.65	-0.1985	-1.08	2.60	-0.2757	18.24	2.69	-0.1139	-20.39	2.60	-0.2832
5	-0.64	2.57	-0.2677	-0.64	2.60	-0.2677	-0.68	2.57	-0.2736	13.02	2.62	-0.1303	-14.29	2.53	-0.4050
6	2.20	2.68	-0.2924	2.20	2.70	-0.2924	2.16	2.68	-0.2983	15.85	2.72	-0.1550	-11.46	2.64	-0.4297
MAX Stage	6)	6)	1)	6)	6)	1)	6)	6)	1)	3)	6)	1)	1)	6)	1)
	2.20	2.68	0.0000	2.20	2.70	0.0000	2.16	2.68	0.0000	19.27	2.72	0.1515	-1.92	2.64	-0.1515
MIN Stage	4)	1)	3)	5)	1)	3)	4)	1)	3)	1)	1)	3)	4)	1)	3)
	-1.08	0.20	-0.6354	-0.64	0.20	-0.4270	-1.08	0.20	-0.6354	1.92	0.20	-0.2401	-20.39	0.20	-1.0306

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* 節点 70 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.18	0.0000	0.00	0.18	0.0000	0.00	0.18	0.0000	1.08	0.18	0.0955	-1.08	0.18	-0.0955
2	0.00	0.18	0.0000	0.00	0.18	0.0000	0.00	0.18	0.0000	1.08	0.18	0.0955	-1.08	0.18	-0.0955
3	1.10	1.51	0.0335	1.15	1.56	0.0552	1.10	1.51	0.0335	14.22	1.64	1.1194	-12.02	1.38	-1.0524
4	-0.32	2.27	-0.0432	0.22	2.27	-0.0062	-0.32	2.23	-0.0432	13.21	2.30	1.0492	-13.86	2.23	-1.1356
5	0.14	2.21	-0.0120	0.14	2.23	-0.0120	0.13	2.21	-0.0136	9.56	2.24	0.7533	-9.28	2.17	-0.7773
6	2.20	2.30	0.1517	2.20	2.32	0.1517	2.19	2.30	0.1501	11.61	2.33	0.9170	-7.22	2.26	-0.6136
MAX Stage	6)	6)	6)	6)	6)	6)	6)	6)	6)	3)	6)	3)	1)	6)	1)
	2.20	2.30	0.1517	2.20	2.32	0.1517	2.19	2.30	0.1501	14.22	2.33	1.1194	-1.08	2.26	-0.0955
MIN Stage	4)	1)	4)	1)	1)	5)	4)	1)	4)	1)	1)	1)	4)	1)	4)
	-0.32	0.18	-0.0432	0.00	0.18	-0.0120	-0.32	0.18	-0.0432	1.08	0.18	0.0955	-13.86	0.18	-1.1356

* 節点 71 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	1.92	0.20	0.1515	-1.92	0.20	-0.1515
2	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	1.92	0.20	0.1515	-1.92	0.20	-0.1515
3	0.00	0.20	0.0000	0.00	0.20	0.0000	0.00	0.20	0.0000	1.92	0.20	0.1515	-1.92	0.20	-0.1515
4	-0.57	1.76	-0.6551	0.25	1.81	-0.4059	-0.57	1.76	-0.6551	18.45	1.90	-0.2366	-19.58	1.63	-1.0735
5	-0.52	2.67	-0.2660	0.04	2.67	-0.2660	-0.52	2.62	-0.3069	13.23	2.80	-0.2459	-14.27	2.55	-0.2862
6	1.49	2.60	-0.3686	2.05	2.60	-0.3686	1.49	2.55	-0.4095	15.24	2.73	-0.3484	-12.26	2.47	-0.3887
MAX Stage	6)	5)	1)	6)	5)	1)	6)	5)	1)	4)	5)	1)	1)	5)	1)
	1.49	2.67	0.0000	2.05	2.67	0.0000	1.49	2.62	0.0000	18.45	2.80	0.1515	-1.92	2.55	-0.1515
MIN Stage	4)	1)	4)	1)	1)	4)	4)	1)	4)	1)	1)	6)	4)	1)	4)
	-0.57	0.20	-0.6551	0.00	0.20	-0.4059	-0.57	0.20	-0.6551	1.92	0.20	-0.3484	-19.58	0.20	-1.0735

* 節点 75 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.18	0.0000	0.00	0.18	0.0000	0.00	0.18	0.0000	1.08	0.18	0.0955	-1.08	0.18	-0.0955
2	0.00	0.18	0.0000	0.00	0.18	0.0000	0.00	0.18	0.0000	1.08	0.18	0.0955	-1.08	0.18	-0.0955
3	0.00	0.18	0.0000	0.00	0.18	0.0000	0.00	0.18	0.0000	1.08	0.18	0.0955	-1.08	0.18	-0.0955
4	1.05	1.52	0.0275	1.07	1.55	0.0513	1.05	1.52	0.0275	13.63	1.63	1.0723	-11.54	1.40	-1.0173
5	0.22	2.29	-0.0053	0.71	2.29	0.0303	0.22	2.25	-0.0053	10.05	2.40	0.7797	-9.61	2.18	-0.7903
6	1.87	2.23	0.1183	2.35	2.23	0.1540	1.87	2.19	0.1183	11.70	2.34	0.9034	-7.96	2.12	-0.6667
MAX Stage	6)	5)	6)	6)	5)	6)	6)	5)	6)	4)	5)	4)	1)	5)	1)
	1.87	2.29	0.1183	2.35	2.29	0.1540	1.87	2.25	0.1183	13.63	2.40	1.0723	-1.08	2.18	-0.0955
MIN Stage	1)	1)	5)	1)	1)	1)	1)	1)	5)	1)	1)	1)	4)	1)	4)
	0.00	0.18	-0.0053	0.00	0.18	0.0000	0.00	0.18	-0.0053	1.08	0.18	0.0955	-11.54	0.18	-1.0173

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* 節点 76 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	0.97	0.15	0.0709	-0.97	0.15	-0.0709
2	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	0.97	0.15	0.0709	-0.97	0.15	-0.0709
3	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	0.97	0.15	0.0709	-0.97	0.15	-0.0709
4	0.00	0.15	0.0000	0.00	0.15	0.0000	0.00	0.15	0.0000	0.97	0.15	0.0709	-0.97	0.15	-0.0709
5	-0.38	0.78	-0.1477	0.54	0.80	0.0546	-0.38	0.78	-0.1477	12.76	0.86	0.4845	-13.52	0.70	-0.7799
6	-0.04	0.80	0.5445	0.89	0.82	0.7468	-0.04	0.80	0.5445	13.11	0.88	1.1767	-13.18	0.72	-0.0877
MAX Stage	1)	6)	6)	6)	6)	6)	1)	6)	6)	6)	6)	6)	1)	6)	1)
	0.00	0.80	0.5445	0.89	0.82	0.7468	0.00	0.80	0.5445	13.11	0.88	1.1767	-0.97	0.72	-0.0709
MIN Stage	5)	1)	5)	1)	1)	1)	5)	1)	5)	1)	1)	1)	5)	1)	5)
	-0.38	0.15	-0.1477	0.00	0.15	0.0000	-0.38	0.15	-0.1477	0.97	0.15	0.0709	-13.52	0.15	-0.7799

* 節点 80 * 架設中変位 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	0.00	0.13	0.0000	0.00	0.13	0.0000	0.00	0.13	0.0000	0.62	0.13	0.0483	-0.62	0.13	-0.0483
2	0.00	0.13	0.0000	0.00	0.13	0.0000	0.00	0.13	0.0000	0.62	0.13	0.0483	-0.62	0.13	-0.0483
3	0.00	0.13	0.0000	0.00	0.13	0.0000	0.00	0.13	0.0000	0.62	0.13	0.0483	-0.62	0.13	-0.0483
4	0.00	0.13	0.0000	0.00	0.13	0.0000	0.00	0.13	0.0000	0.62	0.13	0.0483	-0.62	0.13	-0.0483
5	0.03	0.67	-0.0129	0.30	0.69	0.0264	0.03	0.67	-0.0129	8.84	0.74	0.6625	-8.78	0.60	-0.6884
6	-1.22	0.69	-0.0303	-0.95	0.70	0.0090	-1.22	0.69	-0.0303	7.59	0.76	0.6452	-10.03	0.62	-0.7058
MAX Stage	5)	6)	1)	5)	6)	5)	5)	6)	1)	5)	6)	5)	1)	6)	1)
	0.03	0.69	0.0000	0.30	0.70	0.0264	0.03	0.69	0.0000	8.84	0.76	0.6625	-0.62	0.62	-0.0483
MIN Stage	6)	1)	6)	6)	1)	1)	6)	1)	6)	1)	1)	1)	6)	1)	6)
	-1.22	0.13	-0.0303	-0.95	0.13	0.0000	-1.22	0.13	-0.0303	0.62	0.13	0.0483	-10.03	0.13	-0.7058

2.5.2 Reaction and Sectional Force

* 節点 60 * 架設中反力 TOTAL *

		D+PS		D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
1	0	304	0	0	304	0	0	304	0	41	304	131	-41	304	-131
2	0	1797	0	0	1810	0	0	1797	0	41	1923	131	-41	1670	-131
3	0	1726	0	0	1817	0	0	1726	0	41	1761	131	-41	1692	-131
4	0	1742	0	0	1821	0	0	1742	0	41	1789	131	-41	1696	-131
5	0	1738	0	0	1822	0	0	1738	0	41	1768	131	-41	1709	-131
6	0	1950	0	0	2033	0	0	1950	0	41	1979	131	-41	1921	-131
MAX Stage	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)	1)	6)	1)
	0	1950	0	0	2033	0	0	1950	0	41	1979	131	-41	1921	-131
MIN Stage	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)
	0	304	0	0	304	0	0	304	0	41	304	131	-41	304	-131

* 節点 65 * 架設中反力 TOTAL *

		D+PS		D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
1	0	304	0	0	304	0	0	304	0	41	304	131	-41	304	-131
2	0	2466	-421	0	2466	-165	0	2452	-421	534	2592	902	-534	2339	-1745
3	-66	3632	-295	-60	3632	-275	-66	3461	-295	441	3808	684	-574	3456	-1276
4	-59	3523	-337	-59	3523	-315	-75	3440	-337	420	3606	634	-540	3439	-1309
5	-53	3541	-312	-53	3541	-312	-78	3439	-322	293	3621	363	-399	3461	-989
6	3	3223	-49	3	3223	-49	-22	3121	-59	349	3303	626	-343	3142	-726
MAX Stage	6)	3)	1)	6)	3)	1)	1)	3)	1)	2)	3)	2)	1)	5)	1)
	3	3632	0	3	3632	0	0	3461	0	534	3808	902	-41	3461	-131
MIN Stage	3)	1)	2)	3)	1)	4)	5)	1)	2)	1)	1)	1)	3)	1)	2)
	-66	304	-421	-60	304	-315	-78	304	-421	41	304	131	-574	304	-1745

* 節点 70 * 架設中反力 TOTAL *

		D+PS		D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
1	0	287	0	0	287	0	0	287	0	38	287	117	-38	287	-117
2	0	287	0	0	287	0	0	287	0	38	287	117	-38	287	-117
3	66	2414	-265	66	2493	-153	60	2414	-265	566	2624	725	-433	2204	-1257
4	-5	3628	-124	18	3628	-124	-5	3571	-131	522	3684	729	-533	3573	-978
5	15	3530	-132	15	3563	-132	15	3530	-136	380	3588	494	-349	3471	-758
6	96	3673	-17	96	3707	-17	96	3673	-21	461	3732	609	-268	3615	-644
MAX Stage	6)	6)	1)	6)	6)	1)	6)	6)	1)	3)	6)	4)	1)	6)	1)
	96	3673	0	96	3707	0	96	3673	0	566	3732	729	-38	3615	-117
MIN Stage	4)	1)	3)	1)	1)	3)	4)	1)	3)	1)	1)	1)	4)	1)	3)
	-5	287	-265	0	287	-153	-5	287	-265	38	287	117	-533	287	-1257

***BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

* 節点 75 * 架設中反力 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
1	0	287	0	0	287	0	0	287	0	38	287	117	-38	287	-117
2	0	287	0	0	287	0	0	287	0	38	287	117	-38	287	-117
3	0	287	0	0	287	0	0	287	0	38	287	117	-38	287	-117
4	65	2424	-279	65	2486	-146	56	2424	-279	543	2609	691	-413	2239	-1250
5	18	3666	-126	38	3666	-117	18	3596	-126	405	3840	443	-368	3492	-695
6	86	3567	-78	107	3567	-69	86	3497	-78	473	3741	491	-300	3393	-647
MAX Stage	6)	5)	1)	6)	5)	1)	6)	5)	1)	4)	5)	4)	1)	5)	1)
	86	3666	0	107	3666	0	86	3596	0	543	3840	691	-38	3492	-117
MIN Stage	1)	1)	4)	1)	1)	4)	1)	1)	4)	1)	1)	1)	4)	1)	4)
	0	287	-279	0	287	-146	0	287	-279	38	287	117	-413	287	-1250

* 節点 80 * 架設中反力 TOTAL *

	D+PS			D+PS+T(MAX)			D+PS+T(MIN)			D+PS+EQ(MAX)			D+PS+EQ(MIN)		
Stage	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
1	0	434	0	0	434	0	0	434	0	58	434	156	-58	434	-156
2	0	434	0	0	434	0	0	434	0	58	434	156	-58	434	-156
3	0	434	0	0	434	0	0	434	0	58	434	156	-58	434	-156
4	0	434	0	0	434	0	0	434	0	58	434	156	-58	434	-156
5	19	2173	-259	24	2228	131	19	2173	-259	857	2398	1829	-818	1948	-2348
6	-186	2235	829	-181	2290	1219	-186	2235	829	651	2460	2918	-1024	2010	-1260
MAX Stage	5)	6)	6)	5)	6)	6)	5)	6)	6)	5)	6)	6)	1)	6)	1)
	19	2235	829	24	2290	1219	19	2235	829	857	2460	2918	-58	2010	-156
MIN Stage	6)	1)	5)	6)	1)	1)	6)	1)	5)	1)	1)	1)	6)	1)	5)
	-186	434	-259	-181	434	0	-186	434	-259	58	434	156	-1024	434	-2348

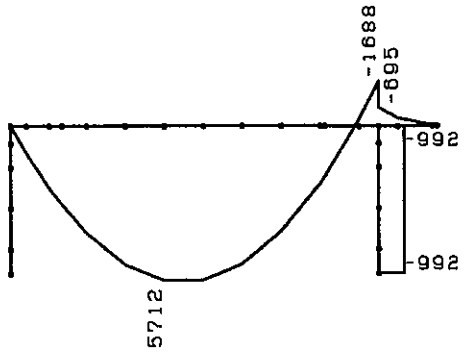
BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

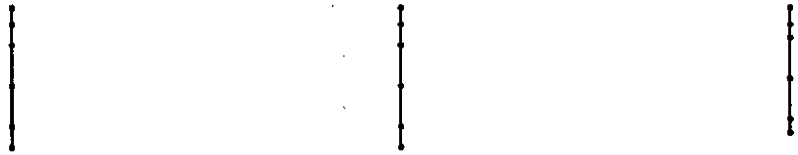
BENDING MOMENT STAGE 2

——— DEAD LOAD
——— ERECTION LOAD

SCALE = 1 / 380

1CM = 2856.5 KNM





BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

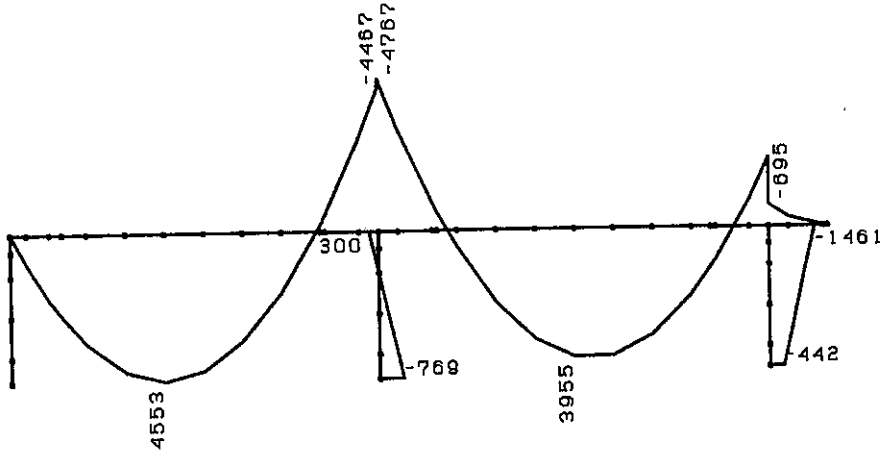
BENDING MOMENT STAGE 3

DEAD LOAD

ERECTION LOAD

SCALE = 1 / 380

1CM = 2384.0 KNM



BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

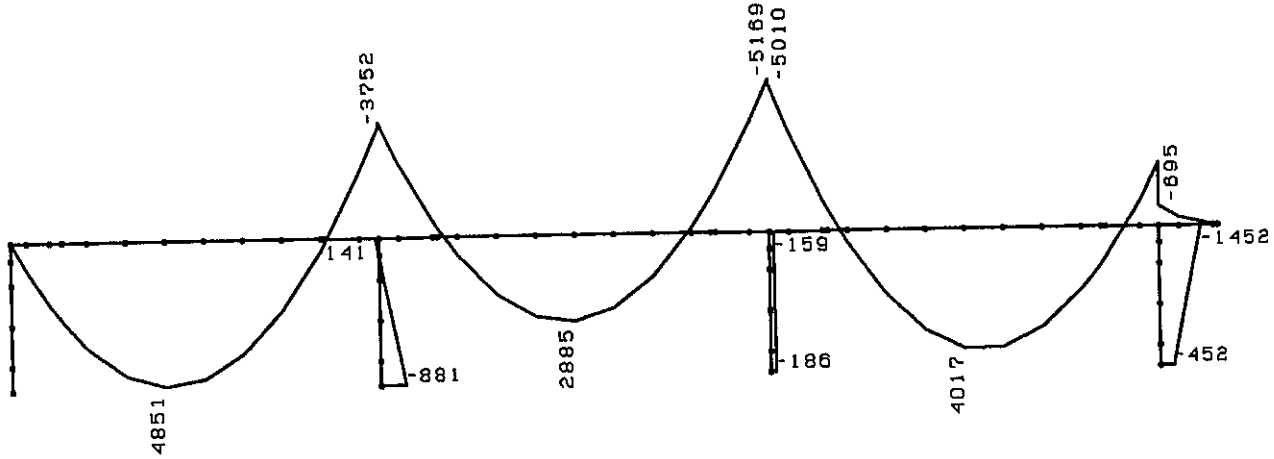
BENDING MOMENT STAGE 4

DEAD LOAD

ERECTION LOAD

SCALE = 1 / 380

1CM = 2584.9 KNM



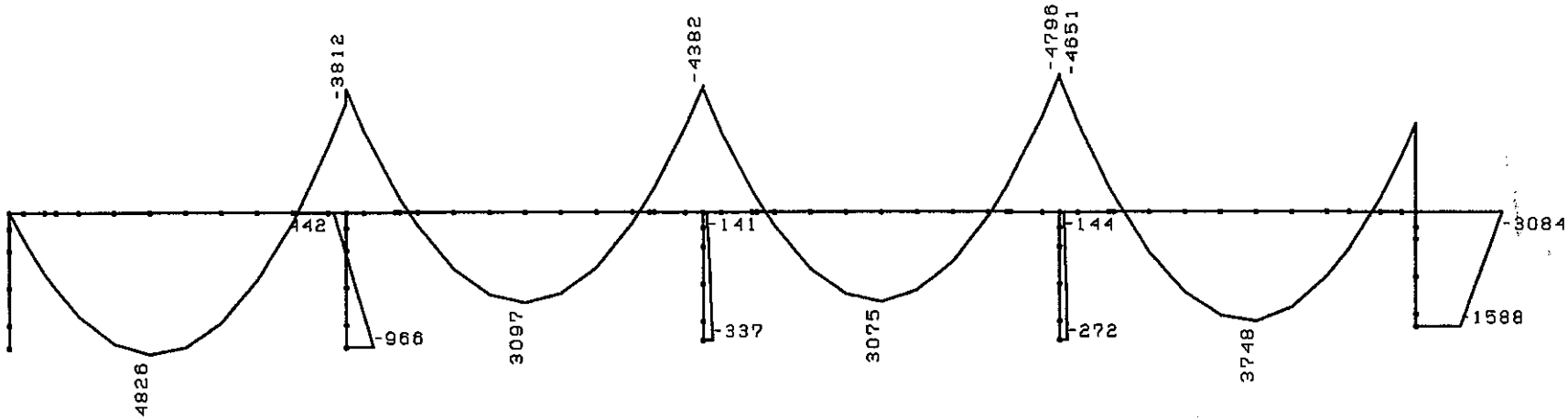
BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

BENDING MOMENT STAGE 5

DEAD LOAD
ERECTION LOAD

SCALE = 1 / 380

1CM = 2413.4 KNM



BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

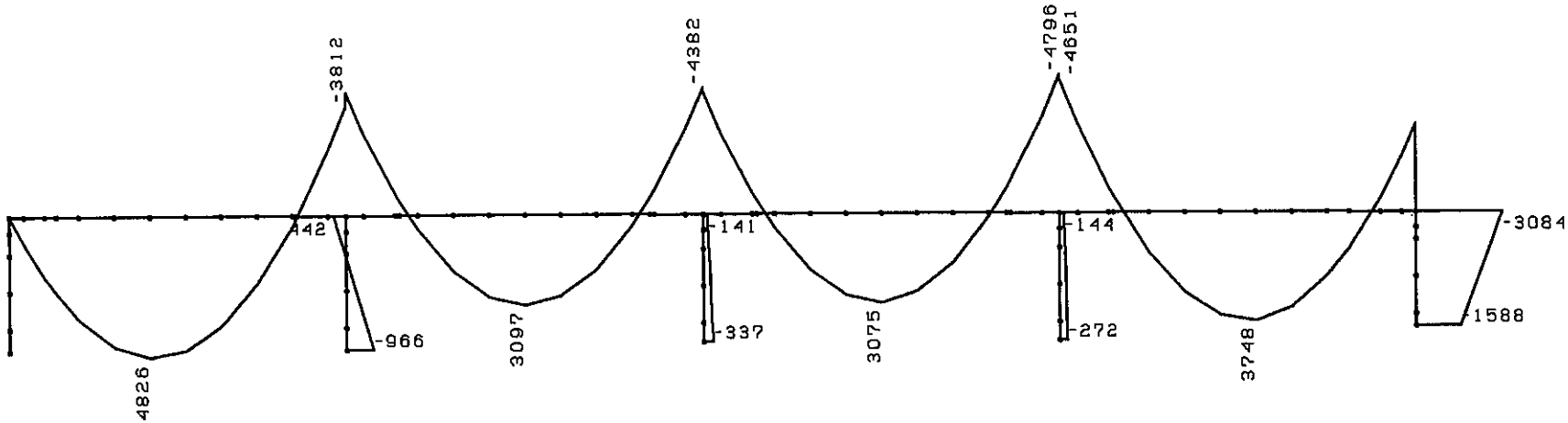
BENDING MOMENT STAGE 6

DEAD LOAD

ERECTION LOAD

SCALE = 1 / 380

1CM = 2413.4 KNM



2.6 AFTER CONSTRUCTION COMPLETION STAGE

2.6.1 Displacement

* 完成後変位 *

* Displacement after Construction Completion *

	(1)			(2)			(3)			(4)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	0.29	0.4779	-0.84	0.67	0.4711	-0.84	1.22	0.4376	-0.84	1.48	0.4107
温度 (全)	-5.65	0.01	0.0335	-5.57	0.03	0.0333	-5.45	0.07	0.0323	-5.39	0.09	0.0315
(床版)	-1.18	0.06	-0.3277	-1.15	-0.18	-0.2784	-1.11	-0.47	-0.2101	-1.09	-0.59	-0.1772
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.19	-0.06	-0.2637	36.19	-0.27	-0.2623	36.18	-0.58	-0.2549	36.18	-0.74	-0.2485
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	1.03	1.7639	0.55	2.31	1.7439	0.55	4.30	1.6417	0.55	5.29	1.5568
(MIN)	-2.46	-0.11	-0.4322	-2.46	-0.45	-0.4295	-2.46	-0.96	-0.4154	-2.46	-1.22	-0.4032
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(5)			(6)			(7)			(8)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	1.95	0.3412	-0.84	2.50	0.1999	-0.84	2.74	0.0435	-0.84	2.68	-0.1028
温度 (全)	-5.26	0.13	0.0292	-5.06	0.18	0.0236	-4.86	0.22	0.0157	-4.66	0.25	0.0055
(床版)	-1.05	-0.78	-0.1171	-0.99	-0.93	-0.0362	-0.93	-0.93	0.0258	-0.86	-0.84	0.0688
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.18	-1.04	-0.2306	36.18	-1.46	-0.1876	36.17	-1.78	-0.1269	36.17	-1.95	-0.0485
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	7.08	1.3320	0.55	9.23	0.8690	0.55	10.31	0.3889	0.55	10.24	0.0948
(MIN)	-2.46	-1.70	-0.3690	-2.46	-2.36	-0.2875	-2.46	-2.82	-0.1920	-2.46	-3.02	-0.4388
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(9)			(10)			(11)			(12)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	2.36	-0.2138	-0.84	1.87	-0.2643	-0.84	1.36	-0.2292	-0.84	1.30	-0.2175
温度 (全)	-4.46	0.24	-0.0070	-4.26	0.22	-0.0217	-4.06	0.16	-0.0388	-4.04	0.15	-0.0411
(床版)	-0.80	-0.67	0.0929	-0.73	-0.48	0.0981	-0.67	-0.29	0.0844	-0.66	-0.27	0.0813
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.16	-1.96	0.0475	36.15	-1.75	0.1612	36.15	-1.30	0.2925	36.14	-1.23	0.3101
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	9.11	0.1720	0.55	7.16	0.3875	0.55	4.77	0.6393	0.55	4.47	0.6732
(MIN)	-2.46	-2.88	-0.8550	-2.46	-2.35	-1.1604	-2.46	-1.36	-1.2472	-2.46	-1.20	-1.2393
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

Superimposed Dead Load	
Temperature	(Year)
	(Day-Beam)
	(Pier 1)
	(Pier 2)
	(Stay)
Snow Load	
Earthquake	
Support Down	(MAX)
	(MIN)
Live Load	(MAX)
	(MIN)
Earth Pressure	Serviceability
	Earthquake from right direction
	Earthquake from left direction
Side Earth Pressure	(MAX)
	(MIN)

* 完成後変位 *

	(13)			(14)			(15)			(16)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	1.01	-0.0975	-0.84	0.92	-0.0974	-0.84	0.82	-0.0973	-0.84	0.77	0.0330
温度 (全)	-3.86	0.07	-0.0563	-3.76	0.01	-0.0563	-3.66	-0.05	-0.0563	-3.49	-0.13	-0.0356
(床版)	-0.61	-0.14	0.0650	-0.61	-0.08	0.0650	-0.61	-0.01	0.0650	-0.56	0.09	0.0535
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.12	-0.58	0.4257	36.12	-0.16	0.4258	36.12	0.27	0.4256	36.13	0.82	0.2096
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	2.56	0.8983	0.55	1.97	0.8984	0.55	2.30	0.8986	0.55	3.85	1.0378
(MIN)	-2.45	-0.06	-1.0693	-2.45	-0.17	-1.0692	-2.45	-0.37	-1.0690	-2.46	-1.51	-0.8020
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(17)			(18)			(19)			(20)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	0.78	0.0473	-0.84	0.85	0.0901	-0.84	1.07	0.1167	-0.84	1.28	0.0856
温度 (全)	-3.46	-0.14	-0.0326	-3.37	-0.17	-0.0213	-3.17	-0.19	-0.0026	-2.97	-0.18	0.0110
(床版)	-0.55	0.10	0.0503	-0.52	0.15	0.0382	-0.45	0.20	0.0173	-0.39	0.22	0.0005
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.13	0.87	0.1793	36.13	0.99	0.0685	36.12	0.94	-0.1037	36.11	0.62	-0.2097
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	4.10	1.0432	0.55	5.10	1.0267	0.55	6.92	0.8462	0.55	8.16	0.5423
(MIN)	-2.46	-1.70	-0.7618	-2.46	-2.36	-0.6081	-2.46	-3.27	-0.3449	-2.46	-3.67	-0.2344
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(21)			(22)			(23)			(24)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	1.39	0.0220	-0.84	1.36	-0.0488	-0.84	1.21	-0.1017	-0.84	0.99	-0.1115
温度 (全)	-2.77	-0.15	0.0195	-2.57	-0.11	0.0228	-2.37	-0.06	0.0210	-2.17	-0.02	0.0141
(床版)	-0.33	0.21	-0.0119	-0.26	0.18	-0.0202	-0.20	0.13	-0.0241	-0.14	0.08	-0.0238
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.10	0.15	-0.2495	36.09	-0.34	-0.2233	36.08	-0.70	-0.1309	36.07	-0.82	0.0276
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	8.61	0.2873	0.55	8.18	0.2831	0.55	6.95	0.3852	0.55	5.14	0.5459
(MIN)	-2.46	-3.65	-0.2742	-2.46	-3.30	-0.5348	-2.46	-2.90	-0.8419	-2.46	-2.07	-1.0310
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

* 完成後変位 *

	(25)			(26)			(27)			(28)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	0.88	-0.0924	-0.84	0.86	-0.0845	-0.84	0.78	-0.0004	-0.84	0.78	-0.0003
温度 (全)	-2.07	-0.01	0.0087	-2.05	-0.01	0.0072	-1.87	0.00	-0.0047	-1.77	-0.01	-0.0047
(床版)	-0.10	0.06	-0.0221	-0.10	0.05	-0.0215	-0.04	0.03	-0.0059	-0.04	0.02	-0.0059
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.06	-0.74	0.1317	36.06	-0.70	0.1603	36.04	-0.25	0.3626	36.04	0.11	0.3627
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	4.13	0.6719	0.55	3.88	0.7045	0.53	2.29	0.9192	0.53	1.89	0.9193
(MIN)	-2.46	-1.48	-1.0530	-2.46	-1.32	-1.0494	-2.45	-0.44	-0.9214	-2.45	-0.28	-0.9212
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(29)			(30)			(31)			(32)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	0.78	-0.0002	-0.83	0.87	0.0920	-0.83	0.89	0.1009	-0.83	1.00	0.1236
温度 (全)	-1.67	-0.01	-0.0047	-1.50	-0.02	0.0006	-1.47	-0.02	0.0014	-1.37	-0.02	0.0040
(床版)	-0.04	0.02	-0.0059	0.01	0.02	0.0101	0.02	0.02	0.0109	0.05	0.04	0.0132
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.04	0.48	0.3626	36.05	0.99	0.2265	36.04	1.04	0.2068	36.04	1.21	0.1332
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.53	2.27	0.9194	0.56	3.85	1.0439	0.56	4.10	1.0472	0.56	5.10	1.0224
(MIN)	-2.45	-0.40	-0.9211	-2.47	-1.30	-0.6986	-2.47	-1.46	-0.6649	-2.47	-2.04	-0.5354
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(33)			(34)			(35)			(36)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.83	1.26	0.1182	-0.83	1.45	0.0657	-0.84	1.50	-0.0085	-0.84	1.41	-0.0793
温度 (全)	-1.18	-0.01	0.0076	-0.98	0.01	0.0089	-0.78	0.03	0.0080	-0.58	0.04	0.0047
(床版)	0.11	0.07	0.0155	0.18	0.10	0.0143	0.24	0.12	0.0097	0.30	0.13	0.0018
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	36.03	1.35	0.0091	36.02	1.27	-0.0839	36.01	1.03	-0.1459	35.99	0.71	-0.1768
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.56	6.90	0.8323	0.56	8.11	0.5223	0.56	8.53	0.2665	0.56	8.07	0.2387
(MIN)	-2.47	-2.84	-0.3353	-2.47	-3.22	-0.2307	-2.47	-3.26	-0.2757	-2.47	-3.23	-0.5426
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

* 完成後変位 *

	(37)			(38)			(39)			(40)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	1.21	-0.1216	-0.84	0.96	-0.1100	-0.84	0.87	-0.0762	-0.84	0.85	-0.0643
温度 (全)	-0.38	0.05	-0.0008	-0.18	0.04	-0.0085	-0.08	0.03	-0.0133	-0.06	0.02	-0.0145
(床版)	0.37	0.13	-0.0096	0.43	0.09	-0.0244	0.46	0.06	-0.0330	0.47	0.05	-0.0353
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.98	0.35	-0.1766	35.96	0.02	-0.1454	35.96	-0.11	-0.1182	35.95	-0.14	-0.1101
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.56	6.82	0.3383	0.56	5.03	0.5405	0.55	4.05	0.6674	0.55	3.81	0.7003
(MIN)	-2.47	-2.84	-0.8405	-2.47	-2.01	-1.0112	-2.47	-1.43	-1.0206	-2.47	-1.27	-1.0149
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(41)			(42)			(43)			(44)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.84	0.83	0.0496	-0.84	0.88	0.0497	-0.84	0.93	0.0498	-0.83	1.13	0.1705
温度 (全)	0.11	-0.01	-0.0236	0.21	-0.03	-0.0236	0.31	-0.05	-0.0236	0.49	-0.11	-0.0348
(床版)	0.53	-0.01	-0.0409	0.53	-0.05	-0.0409	0.53	-0.09	-0.0409	0.58	-0.18	-0.0516
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.94	-0.28	-0.0507	35.94	-0.34	-0.0507	35.94	-0.39	-0.0509	35.93	-0.73	-0.3281
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.58	2.30	0.9168	0.58	1.91	0.9169	0.58	2.30	0.9170	0.56	3.90	1.0627
(MIN)	-2.50	-0.37	-0.8644	-2.50	-0.18	-0.8642	-2.50	-0.03	-0.8641	-2.47	-1.07	-0.6269
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(45)			(46)			(47)			(48)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.83	1.18	0.1826	-0.83	1.60	0.2245	-0.83	2.02	0.1861	-0.83	2.31	0.0927
温度 (全)	0.51	-0.12	-0.0360	0.71	-0.20	-0.0423	0.91	-0.28	-0.0413	1.11	-0.36	-0.0331
(床版)	0.59	-0.19	-0.0542	0.65	-0.31	-0.0677	0.71	-0.45	-0.0688	0.78	-0.58	-0.0573
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.93	-0.82	-0.3637	35.91	-1.78	-0.5728	35.90	-3.02	-0.6467	35.89	-4.27	-0.5854
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.56	4.16	1.0687	0.56	6.17	0.9861	0.56	7.80	0.7248	0.56	8.70	0.4010
(MIN)	-2.47	-1.21	-0.5917	-2.47	-2.10	-0.3359	-2.47	-2.53	-0.1316	-2.47	-2.59	-0.1235
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

* 完成後変位 *

	(49)			(50)			(51)			(52)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.83	2.37	-0.0307	-0.84	2.18	-0.1587	-0.84	1.75	-0.2662	-0.84	1.39	-0.3118
温度 (全)	1.31	-0.41	-0.0177	1.51	-0.42	0.0050	1.70	-0.39	0.0349	1.83	-0.33	0.0572
(床版)	0.84	-0.67	-0.0334	0.90	-0.70	0.0029	0.97	-0.65	0.0518	1.01	-0.56	0.0886
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.87	-5.27	-0.3891	35.86	-5.74	-0.0576	35.84	-5.41	0.4090	35.83	-4.68	0.7692
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.56	8.71	0.1985	0.56	7.80	0.2526	0.56	6.11	0.2864	0.56	4.76	0.2860
(MIN)	-2.48	-2.36	-0.3770	-2.48	-1.93	-0.7279	-2.48	-1.40	-1.0321	-2.48	-1.04	-1.1475
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(53)			(54)			(55)			(56)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.82	0.82	-0.3317	-0.82	0.43	-0.3153	-0.82	0.17	-0.3153	0.00	0.29	0.0000
温度 (全)	2.00	-0.20	0.0892	2.12	-0.08	0.1112	2.20	0.01	0.1112	0.00	0.01	0.0000
(床版)	1.06	-0.35	0.1522	1.09	-0.14	0.2023	1.09	0.02	0.2023	0.00	0.06	0.0000
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.77	-2.89	1.2955	35.76	-1.11	1.6633	35.76	0.22	1.6635	4.27	-0.06	0.3387
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.55	2.73	0.2632	0.56	1.39	0.2353	0.56	0.60	0.2353	0.00	1.03	0.0000
(MIN)	-2.44	-0.56	-1.1660	-2.44	-0.26	-1.0851	-2.44	-0.07	-1.0850	0.00	-0.11	0.0000
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(57)			(58)			(59)			(60)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	0.00	0.28	0.0000	0.00	0.27	0.0000	0.00	0.25	0.0000	0.00	0.24	0.0000
温度 (全)	0.00	0.01	0.0000	0.00	0.01	0.0000	0.00	0.01	0.0000	0.00	0.01	0.0000
(床版)	0.00	0.06	0.0000	0.00	0.06	0.0000	0.00	0.05	0.0000	0.00	0.05	0.0000
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	3.86	-0.06	0.3378	3.20	-0.05	0.3221	2.60	-0.05	0.2676	2.31	-0.05	0.2061
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.00	1.00	0.0000	0.00	0.95	0.0000	0.00	0.90	0.0000	0.00	0.87	0.0000
(MIN)	0.00	-0.11	0.0000	0.00	-0.10	0.0000	0.00	-0.10	0.0000	0.00	-0.09	0.0000
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

* 完成後変位 *

	(61)			(62)			(63)			(64)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.76	0.92	-0.0974	-0.64	0.89	-0.0912	-0.47	0.84	-0.0747	-0.35	0.80	-0.0505
温度 (全)	-3.72	0.01	-0.0563	-3.59	0.01	-0.1511	-3.18	0.01	-0.2398	-2.69	0.01	-0.2422
(床版)	-0.67	-0.08	0.0650	-0.72	-0.07	0.0258	-0.72	-0.07	-0.0203	-0.65	-0.07	-0.0423
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	35.77	-0.16	0.4259	34.68	-0.15	1.3436	30.96	-0.15	2.2373	26.27	-0.14	2.3150
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.65	1.97	0.8984	1.31	1.91	0.6092	2.35	1.82	0.2338	2.63	1.72	0.0386
(MIN)	-2.38	-0.17	-1.0691	-2.65	-0.17	-0.7606	-2.95	-0.16	-0.3475	-3.05	-0.15	-0.1543
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(65)			(66)			(67)			(68)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.30	0.77	-0.0323	-0.84	0.78	-0.0003	-0.82	0.76	-0.0223	-0.75	0.72	-0.0489
温度 (全)	-2.42	0.01	-0.2022	-1.77	-0.01	-0.0047	-1.74	-0.01	-0.0503	-1.58	-0.01	-0.1048
(床版)	-0.60	-0.06	-0.0439	-0.04	0.02	-0.0059	-0.03	0.02	-0.0054	-0.02	0.02	-0.0041
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	23.68	-0.13	1.9598	35.74	0.11	0.3628	34.92	0.11	1.1921	31.42	0.10	2.1717
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	2.56	1.67	0.1218	0.82	1.89	0.9193	1.50	1.84	0.6645	2.30	1.75	0.2606
(MIN)	-2.90	-0.14	-0.1644	-2.41	-0.28	-0.9212	-2.52	-0.27	-0.6793	-2.73	-0.26	-0.2911
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(69)			(70)			(71)			(72)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.64	0.68	-0.0536	-0.59	0.66	-0.0475	-0.88	0.88	0.0497	-0.91	0.86	0.0135
温度 (全)	-1.35	-0.01	-0.1135	-1.24	-0.01	-0.1003	0.23	-0.03	-0.0236	0.25	-0.03	-0.0113
(床版)	-0.02	0.02	-0.0025	-0.01	0.02	-0.0016	0.56	-0.05	-0.0409	0.59	-0.05	-0.0154
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	26.81	0.10	2.2866	24.60	0.10	2.0025	35.99	-0.34	-0.0505	35.53	-0.33	0.8927
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	2.48	1.66	0.0400	2.40	1.61	0.1198	1.18	1.91	0.9168	1.87	1.86	0.6121
(MIN)	-2.85	-0.24	-0.1523	-2.74	-0.24	-0.1520	-3.12	-0.18	-0.8642	-3.79	-0.18	-0.6177
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

* 完成後変位 *

	(73)			(74)			(75)			(76)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.88	0.81	-0.0353	-0.79	0.77	-0.0553	-0.73	0.75	-0.0545	-0.56	0.17	-0.3153
温度 (全)	0.26	-0.03	0.0061	0.23	-0.03	0.0146	0.22	-0.03	0.0155	2.11	0.01	0.1112
(床版)	0.58	-0.05	0.0196	0.52	-0.04	0.0352	0.49	-0.04	0.0356	0.92	0.02	0.2023
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	32.44	-0.31	2.0534	27.93	-0.29	2.2947	25.68	-0.29	2.0541	34.39	0.22	1.6637
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	2.63	1.77	0.1570	2.75	1.68	0.0614	2.65	1.63	0.1408	0.41	0.60	0.2352
(MIN)	-4.39	-0.17	-0.2322	-4.28	-0.16	-0.1858	-4.05	-0.15	-0.2522	-1.57	-0.07	-1.0849
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

	(77)			(78)			(79)			(80)		
	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
橋面工	-0.37	0.17	-0.2694	0.05	0.16	-0.1468	0.23	0.15	-0.0442	0.25	0.15	-0.0140
温度 (全)	2.03	0.01	0.1274	1.74	0.01	0.1472	1.47	0.01	0.1249	1.39	0.01	0.1078
(床版)	0.79	0.02	0.1824	0.49	0.02	0.1223	0.31	0.02	0.0605	0.27	0.02	0.0393
(柱 1)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(柱 2)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(Stay)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
雪	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
地震	33.16	0.21	1.9464	28.77	0.20	2.3310	24.30	0.19	2.0274	23.01	0.18	1.7671
支点移動 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
活荷重 (MAX)	0.37	0.58	0.1975	0.92	0.55	0.1016	1.43	0.52	0.0298	1.46	0.50	0.0209
(MIN)	-1.00	-0.07	-0.9190	-0.79	-0.07	-0.4837	-0.71	-0.06	-0.1294	-0.68	-0.06	-0.0494
土圧 常時	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
右地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
左地震	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
側土圧 (MAX)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000
(MIN)	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000	0.00	0.00	0.0000

2.6.2 Reaction and Sectional Force

* 完成後反力 *

* Reaction after Construction Completion *

		(60)			(65)			(70)			(75)		
		RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
橋面工		0	391	0	-8	1237	-68	-23	1059	-36	-30	1197	-19
温度 (全)		0	10	0	-91	12	-195	-48	-12	-79	9	-41	1
(床版)		0	83	0	-25	-101	-9	0	33	-3	20	-69	8
(柱 1)		0	0	0	0	0	0	0	0	0	0	0	0
(柱 2)		0	0	0	0	0	0	0	0	0	0	0	0
(Stay)		0	0	0	0	0	0	0	0	0	0	0	0
雪		0	0	0	0	0	0	0	0	0	0	0	0
地震		82	-77	262	903	-212	1789	952	154	1657	1010	-457	1507
支点移動	(MAX)	0	0	0	0	0	0	0	0	0	0	0	0
	(MIN)	0	0	0	0	0	0	0	0	0	0	0	0
活荷重	RX(MAX)	0	0	0	152	1959	-396	142	1759	-347	152	1757	-317
	(MIN)	0	0	0	-159	1723	278	-153	1649	329	-214	1675	240
	RY(MAX)	0	1583	0	5	2951	-127	6	2852	6	-29	2887	-37
	(MIN)	0	-168	0	45	-263	-41	-70	-416	-6	-32	-278	76
	RM(MAX)	0	0	0	-140	1762	310	-144	1747	374	-198	1886	281
	(MIN)	0	0	0	133	1990	-426	132	1769	-395	147	1856	-338
土圧	常時	0	0	0	0	0	0	0	0	0	0	0	0
	右地震	0	0	0	0	0	0	0	0	0	0	0	0
	左地震	0	0	0	0	0	0	0	0	0	0	0	0
側土圧	RX(+)	0	0	0	0	0	0	0	0	0	0	0	0
	RX(-)	0	0	0	0	0	0	0	0	0	0	0	0
	RY(+)	0	0	0	0	0	0	0	0	0	0	0	0
	RY(-)	0	0	0	0	0	0	0	0	0	0	0	0
	RM(+)	0	0	0	0	0	0	0	0	0	0	0	0
	RM(-)	0	0	0	0	0	0	0	0	0	0	0	0

		(80)			(								
		RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
橋面工		61	477	-531									
温度 (全)		130	31	355									
(床版)		5	54	390									
(柱 1)		0	0	0									
(柱 2)		0	0	0									
(Stay)		0	0	0									
雪		0	0	0									
地震		2186	593	5504									
支点移動	(MAX)	0	0	0									
	(MIN)	0	0	0									
活荷重	RX(MAX)	304	1460	-1957									
	(MIN)	-95	-212	363									
	RY(MAX)	262	1861	-1768									
	(MIN)	-93	-219	385									
	RM(MAX)	-66	-197	431									
	(MIN)	280	1544	-2023									
土圧	常時	0	0	0									
	右地震	0	0	0									
	左地震	0	0	0									
側土圧	RX(+)	0	0	0									
	RX(-)	0	0	0									
	RY(+)	0	0	0									
	RY(-)	0	0	0									
	RM(+)	0	0	0									
	RM(-)	0	0	0									

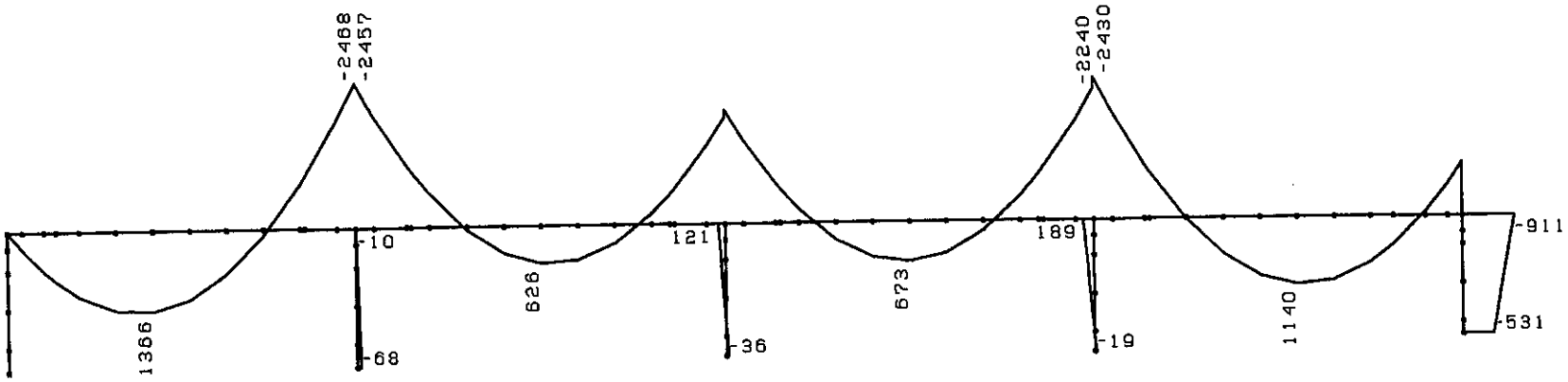
	Superimposed Dead Load
Temperature	(Year)
	(Day-Beam)
	(Pier 1)
	(Pier 2)
	(Stay)
Snow Load	
Earthquake	
Support Down	(MAX)
	(MIN)
Live Load	(MAX)
	(MIN)
Earth Pressure	Serviceability
	Earthquake from right direction
	Earthquake from left direction
Side Earth Pressure	(MAX)
	(MIN)

BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

BENDING MOMENT OF SURFACE WORK D1

SCALE = 1 / 380

1CM = 1234.1 KNM



106

BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

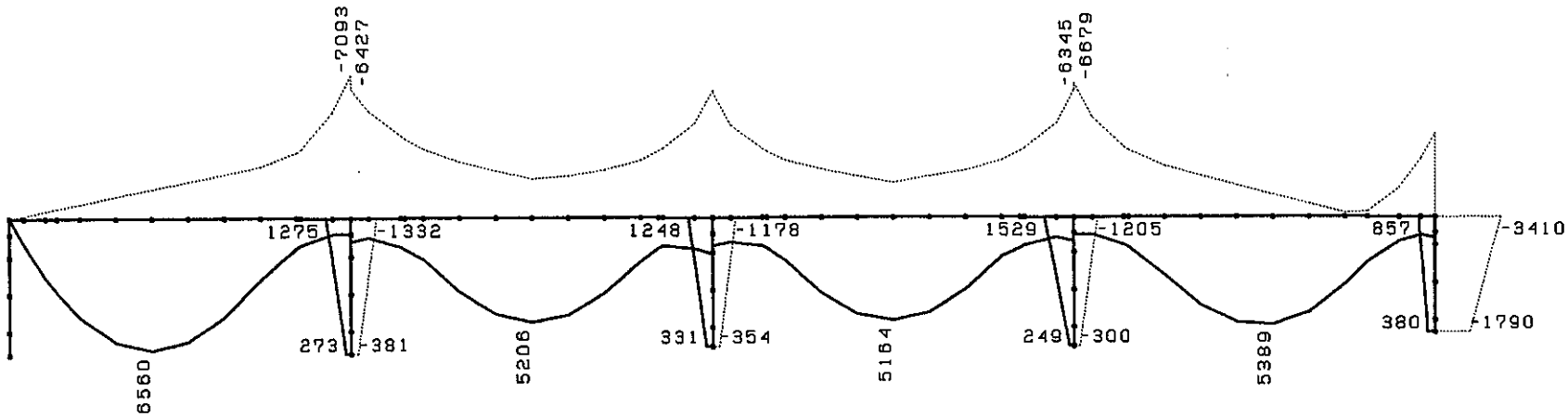
BENDING MOMENT OF LIVE LOAD(M-MAXIMUM)

MAX

MIN

SCALE = 1 / 380

1CM = 3546.6 KNM

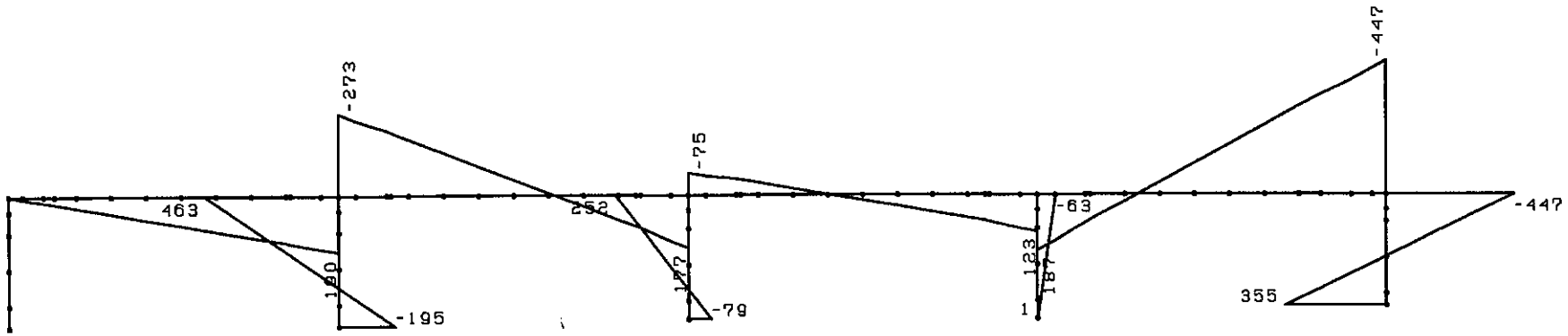


BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

BENDING MOMENT OF TEMP(YEAR)

SCALE = 1 / 380

1CM = 231.8 KNM



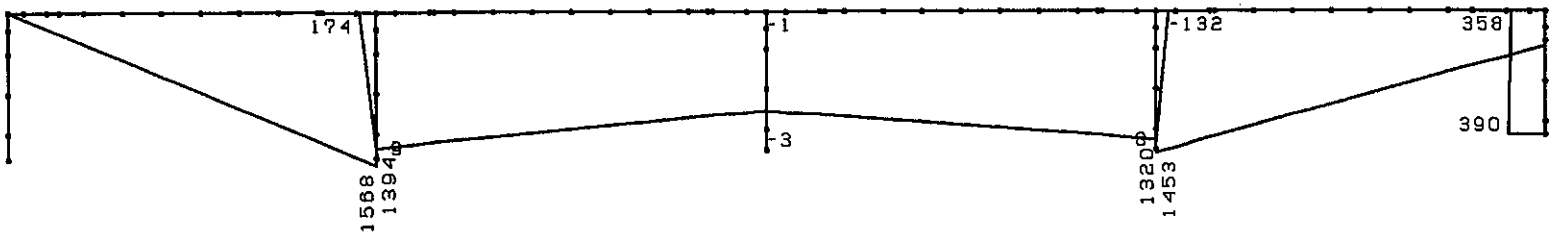
108

BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

BENDING MOMENT OF TEMP(SLAB,DAY)

SCALE = 1 / 380

1CM = 784.4 KNM



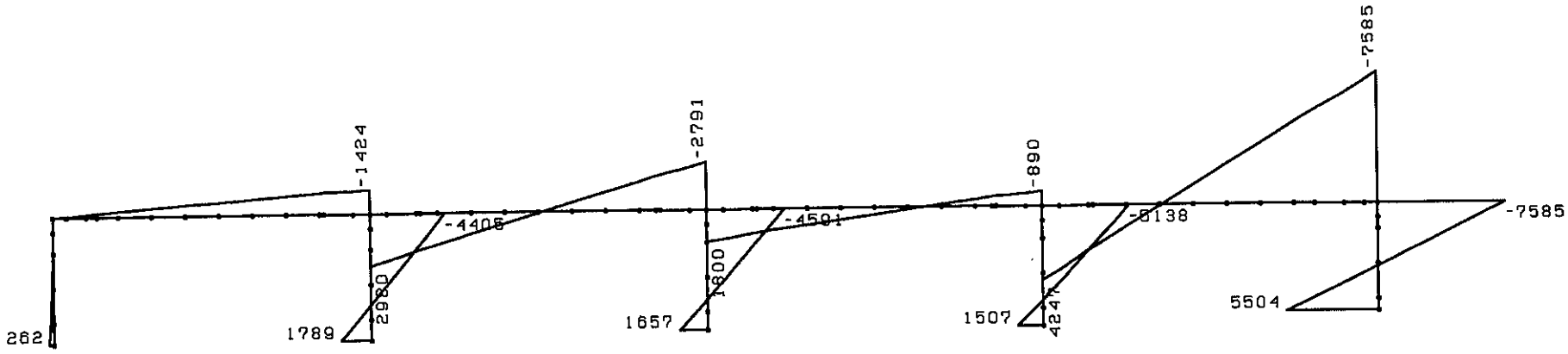
109

BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

BENDING MOMENT OF EARTHQUAKE

SCALE = 1 / 380

1CM = 3792.6 KNM



2.7 TORSIONAL FORCE CALCULATION BY GRILLAGE ANALYSIS

(Refer to Report "Calculation of Torsional Moment due to Live Load by Grillage Analysis")

THE TORSIONAL EFFECT DUE TO LIVE LOAD

1. THE SUMMARY

Based on the advanced trial design, effect of torsional moments are not critical in design. Therefore, the torsional moments are applied only one case to similar bridges that have have same width. The grouping of torsional moments are as follows,

Group 1 Balaraja, Nagreg, Peterongan and Tanggulangin Flyover

a) The torsional effects are carried out by grillage analysis for PRC sub frames at curves which consist of,
   - Sub-frame P6 - A2 (4 spans), width 13.00 m for Balãraja Flyover
   - Sub-frame A1 - P4 (4 spans), width 13.00 m for Nagreg Flyover
   - Sub-frame P8 - A2 (2 spans), width 13.00 m for Nagreg Flyover

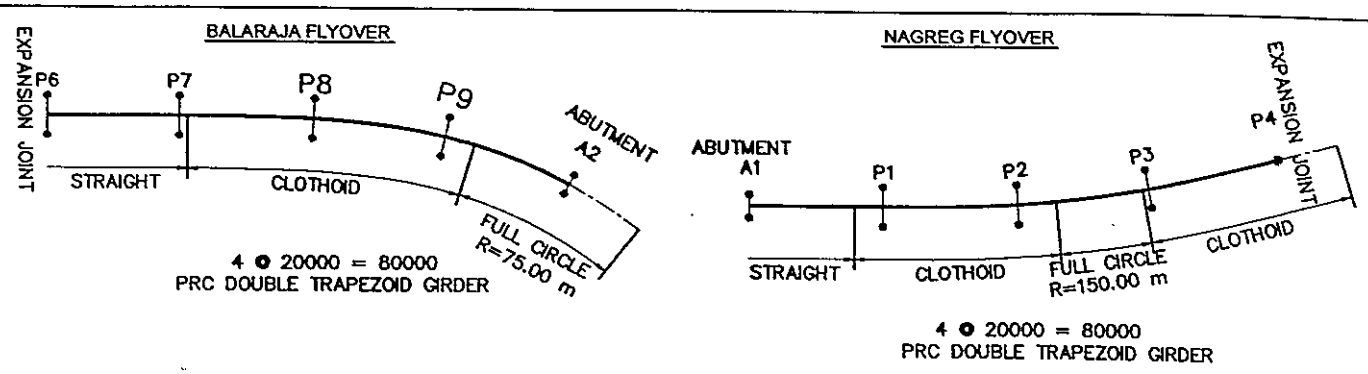
b) The torsional moment results of selected sub-frames are summarized and then sorted to get maximum values applying for the intermediate and end spans of sub frames as shown on the table-1 attached.

Group 2 Gebang and Merak Flyover

The method is the same as Group1 mentioned above. The grillage analysis is carried out for the sub-frame P4-P8 of Gebang which is defined as a representative for all sub-frames of Gebang and Merak Flyover. The results of applied torsional moments are shown on the Table-2 attached.

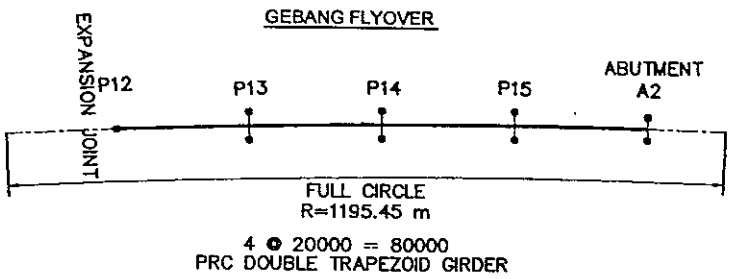
The applied torsional moments are added to the live load which analyzed by CONST as a special two dimensional PC structure software.

TABLE-1 APPLIED TORSIONAL MOMENTS FOR FLYOVER GROUP I



	Balaraja P6–A2	Nagreg A1–P4	Nagreg P8–A2	Balaraja P6–A2	Nagreg A1–P4	Nagreg P8–A2		Applied Torsional Moment	
	Total (T+)	Total (T+)	Total (T+)	Total (T−)	Total (T−)	Total (T−)		Total (T+)	Total (T−)
Side Span	416.0	308.0	334.5	−416.0	−308.0	−506.9	Side Span	416.0	−506.9
	376.6	279.0	306.8	−376.6	−279.0	−453.9		376.6	−453.9
	273.6	202.6	227.0	−273.6	−202.6	−324.5		273.6	−324.5
	145.8	108.0	126.4	−145.8	−108.0	−167.1		280.2	−167.1
	34.8	26.2	52.3	−34.8	−26.2	−33.7		245.3	−155.3
	127.6	94.4	170.7	−127.6	−94.4	−91.0		187.8	−180.3
	218.8	162.0	276.9	−218.8	−162.0	−167.6		276.9	−230.4
	268.0	198.4	325.3	−268.0	−198.4	−216.3		325.3	−270.1
	272.8	202.0	313.6	−272.8	−202.0	−234.7		313.6	−272.8
	270.2	200.2	293.9	−270.2	−200.2	−247.3		293.9	−270.2
	265.8	197.0	263.9	−265.8	−197.0	−266.0		265.8	−265.8
	265.8	197.0	232.7	−265.8	−197.0	−296.2		265.8	−265.8
Pi							Pi		
Mid Span	163.8	121.4		−163.8	−121.4		Mid Span	208.9	−245.9
	165.8	122.8		−165.8	−122.8			213.5	−248.2
	165.2	122.4		−165.2	−122.4			248.2	−269.2
	156.8	116.2		−156.8	−116.2			269.2	−281.4
	112.2	83.0		−112.2	−83.0			281.4	−246.1
	44.8	38.6		−44.8	−38.6			246.1	−188.4
	44.8	38.6		−44.8	−38.6			188.4	−172.1
	112.2	83.0		−112.2	−83.0			246.1	−188.4
	156.8	116.2		−156.8	−116.2			281.4	−246.1
	165.2	122.4		−165.2	−122.4			269.2	−281.4
	165.8	122.8		−165.8	−122.8			248.2	−269.2
	163.8	121.4		−163.8	−121.4			213.5	−248.2
	163.8	121.4		−163.8	−121.4			208.9	−245.9
Pi+1							Pi+1		
Mid Span	208.9	155.1		−213.5	−158.3		Mid Span	208.9	−245.9
	187.4	141.7		−248.2	−183.9			213.5	−248.2
	176.4	134.1		−269.2	−199.5			248.2	−269.2
	167.2	127.5		−281.4	−208.4			269.2	−281.4
	162.2	123.4		−246.1	−183.7			281.4	−246.1
	172.1	130.2		−188.4	−146.1			246.1	−188.4
	188.4	146.1		−172.1	−130.2			188.4	−172.1
	246.1	184.7		−162.2	−123.4			246.1	−188.4
	281.4	208.4		−167.2	−127.5			281.4	−246.1
	269.2	199.5		−176.4	−134.1			269.2	−281.4
	248.2	183.9		−187.4	−141.7			248.2	−269.2
	213.5	158.3		−208.9	−155.1			213.5	−248.2
	174.2	129.1		−245.9	−182.1			208.9	−245.9
Pi+2							Pi+2		
Side Span	208.9	155.1	164.4	−177.7	−158.3	−163.2	Side Span	265.8	−265.8
	187.5	141.7	153.0	−218.8	−184.1	−179.8		265.8	−265.8
	176.4	134.2	144.9	−252.2	−199.6	−187.6		293.9	−270.2
	167.2	127.5	131.6	−271.2	−208.5	−184.7		313.6	−272.8
	162.2	123.3	92.9	−270.1	−183.7	−133.4		325.3	−270.1
	172.1	130.2	38.0	−230.4	−146.1	−53.8		276.9	−230.4
	187.8	145.9	55.8	−180.3	−130.5	−35.6		187.8	−180.3
	245.3	183.1	133.7	−155.3	−123.6	−92.9		245.3	−155.3
	280.2	207.5	182.6	−159.6	−127.9	−133.9		280.2	−167.1
	264.1	195.7	185.3	−179.1	−136.6	−147.3		273.6	−324.5
	213.0	157.7	169.2	−210.1	−156.0	−156.3		376.6	−453.9
	173.8	128.8	158.0	−243.2	−183.4	−166.9		416.0	−506.9

TABLE-2 APPLIED TORSIONAL MOMENTS FOR FLYOVER GROUP II



	Gebang P.11–A2			Applied Torsional Moment	
	Total (T+)	Total (T–)		Total (T+)	Total (T–)
Side Span			Side Span		
	337.8	–389.2		337.8	–389.2
	305.1	–351.6		305.1	–351.6
	222.8	–257.4		222.8	–257.4
	121.4	–140.8		177.1	–141.3
	40.8	–42.9		129.1	–102.1
	123.3	–107.2		123.3	–107.2
	209.2	–180.5		209.2	–180.5
	255.2	–218.0		255.2	–218.0
	254.5	–221.5		254.5	–221.5
	246.6	–220.4		246.6	–220.4
	235.0	–219.8		235.0	–219.8
	227.9	–226.7		227.9	–226.7
Pi			Pi		
Mid Span	150.3	–173.9	Mid Span	169.2	–173.9
	150.5	–181.1		173.9	–181.1
	149.6	–184.2		181.1	–184.2
	142.4	–178.6		184.2	–178.6
	102.7	–129.9		178.6	–142.4
	43.1	–54.7		129.9	–102.7
	54.7	–43.1		54.7	–43.1
	129.9	–102.7		129.9	–102.7
	178.6	–142.4		178.6	–142.4
	184.2	–149.6		184.2	–178.6
	181.1	–150.5		181.1	–184.2
	173.9	–150.3		173.9	–181.1
	169.2	–154.6		169.2	–173.9
Pi+1			Pi+1		
Side Span	150.4	–174.0	Side Span	227.9	–226.7
	150.5	–181.2		235.0	–219.8
	149.8	–184.4		246.6	–220.4
	142.5	–178.8		254.5	–221.5
	102.9	–130.1		255.2	–218.0
	43.6	–55.3		209.2	–180.5
	54.5	–43.0		123.3	–107.2
	129.1	–102.1		129.1	–102.1
	177.1	–141.3		177.1	–141.3
	186.1	–152.3		222.8	–257.4
	175.4	–151.8		305.1	–351.6
	170.7	–156.2		337.8	–389.2

2.8 CREEP AND SHRINKAGE

```
    *** BALA

相対湿度    70 パーセント
基本流動係数 FO 2.000
基本乾燥収縮 EO-0.250E-03
有効厚係数   KW 3.000
遅れ弾性係数 VO  0.400

外ケーブルに対するクリープ乾燥収縮減少量計算法 = 0 : 無視

セメント硬化速度係数 KZ
    ISTART      IEND        KZ
         1        54         1

OUTPUT
      変位      反力    断面力  ステージ別
         1         1         1         0
```

Relative Humidity
Basic Flow Coefficient for Creep
Basic Shrinkage
Coefficient for effective thickness of structural member
Delayed Elastic Coefficient

Calculation method for Creep and shrinkage of External Cable = 0 : Neglect

Hardening Speed Coefficient of Cement

Output Condition

Displacement	Reaction	Section Force	Each Stage

Displacement at Creep Completion

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns

** 終了時　変位 **

Node　Self-weight + Superimposed Dead Load　Erection Load　Girder internal Cable　Stay Cable

節点	自重＋橋面工 X(mm)	Y(mm)	R(mrad)	架設荷重 X(mm)	Y(mm)	R(mrad)	桁内Cable(PS) X(mm)	Y(mm)	R(mrad)	Stay(PS) X(mm)	Y(mm)	R(mrad)
1	-5.31	-0.10	3.5754	0.00	0.00	0.0000	16.48	0.03	-5.7636	0.00	0.00	0.0000
2	-5.32	2.75	3.5220	0.00	0.00	0.0000	16.31	-4.41	-5.3368	0.00	0.00	0.0000
3	-5.32	6.84	3.2596	0.00	0.00	0.0000	16.05	-10.38	-4.5792	0.00	0.00	0.0000
4	-5.32	8.81	3.0467	0.00	0.00	0.0000	15.92	-13.10	-4.1299	0.00	0.00	0.0000
5	-5.33	12.29	2.5021	0.00	0.00	0.0000	15.66	-17.65	-3.1248	0.00	0.00	0.0000
6	-5.35	16.24	1.4032	0.00	0.00	0.0000	15.24	-22.20	-1.4343	0.00	0.00	0.0000
7	-5.37	17.82	0.1764	0.00	0.00	0.0000	14.80	-23.45	0.1586	0.00	0.00	0.0000
8	-5.40	16.98	-0.9902	0.00	0.00	0.0000	14.37	-21.68	1.5804	0.00	0.00	0.0000
9	-5.41	14.03	-1.9083	0.00	0.00	0.0000	13.92	-17.35	2.6706	0.00	0.00	0.0000
10	-5.42	9.64	-2.3828	0.00	0.00	0.0000	13.46	-11.43	3.1066	0.00	0.00	0.0000
11	-5.42	4.94	-2.1969	0.00	0.00	0.0000	12.99	-5.52	2.6381	0.00	0.00	0.0000
12	-5.42	4.40	-2.1180	0.00	0.00	0.0000	12.93	-4.88	2.5126	0.00	0.00	0.0000
13	-5.35	1.36	-1.2385	0.00	0.00	0.0000	12.48	-1.40	1.3528	0.00	0.00	0.0000
14	-5.35	0.16	-1.1643	0.00	0.00	0.0000	12.45	-0.09	1.2734	0.00	0.00	0.0000
15	-5.35	-0.97	-1.0893	0.00	0.00	0.0000	12.43	1.14	1.1868	0.00	0.00	0.0000
16	-5.38	-1.94	-0.1110	0.00	0.00	0.0000	12.10	1.99	-0.1085	0.00	0.00	0.0000
17	-5.38	-1.95	-0.0069	0.00	0.00	0.0000	12.05	1.95	-0.2556	0.00	0.00	0.0000
18	-2.79	0.34	0.8376	0.00	0.00	0.0000	10.39	0.29	-0.9975	0.00	0.00	0.0000
19	-2.79	2.27	1.0047	0.00	0.00	0.0000	9.94	-2.12	-1.2728	0.00	0.00	0.0000
20	-2.80	4.06	0.7244	0.00	0.00	0.0000	9.50	-4.41	-0.9486	0.00	0.00	0.0000
21	-2.82	5.01	0.1997	0.00	0.00	0.0000	9.07	-5.68	-0.2610	0.00	0.00	0.0000
22	-2.83	4.82	-0.3775	0.00	0.00	0.0000	8.64	-5.40	0.5129	0.00	0.00	0.0000
23	-2.84	3.59	-0.8176	0.00	0.00	0.0000	8.21	-3.79	1.0272	0.00	0.00	0.0000
24	-2.85	1.78	-0.9185	0.00	0.00	0.0000	7.78	-1.62	1.0333	0.00	0.00	0.0000
25	-2.85	0.92	-0.7807	0.00	0.00	0.0000	7.57	-0.69	0.7930	0.00	0.00	0.0000
26	-2.85	0.73	-0.7218	0.00	0.00	0.0000	7.51	-0.51	0.7078	0.00	0.00	0.0000
27	-2.84	-0.03	-0.0540	0.00	0.00	0.0000	7.15	0.10	-0.0805	0.00	0.00	0.0000
28	-2.84	-0.06	0.0032	0.00	0.00	0.0000	7.13	0.00	-0.1327	0.00	0.00	0.0000
29	-2.84	-0.02	0.0621	0.00	0.00	0.0000	7.11	-0.17	-0.1971	0.00	0.00	0.0000
30	-2.83	0.77	0.7564	0.00	0.00	0.0000	6.75	-1.40	-1.1192	0.00	0.00	0.0000
31	-2.83	0.97	0.8188	0.00	0.00	0.0000	6.71	-1.69	-1.2142	0.00	0.00	0.0000
32	-2.47	2.84	1.2095	0.00	0.00	0.0000	6.55	-3.36	-1.5460	0.00	0.00	0.0000
33	-2.48	5.24	1.1053	0.00	0.00	0.0000	6.13	-6.52	-1.4898	0.00	0.00	0.0000
34	-2.49	7.01	0.6142	0.00	0.00	0.0000	5.70	-8.97	-0.9016	0.00	0.00	0.0000
35	-2.51	7.57	-0.0625	0.00	0.00	0.0000	5.28	-9.93	-0.0090	0.00	0.00	0.0000
36	-2.53	6.77	-0.7251	0.00	0.00	0.0000	4.85	-8.98	0.9210	0.00	0.00	0.0000
37	-2.55	4.82	-1.1737	0.00	0.00	0.0000	4.42	-6.45	1.5375	0.00	0.00	0.0000
38	-2.56	2.35	-1.2026	0.00	0.00	0.0000	3.97	-3.22	1.5683	0.00	0.00	0.0000
39	-2.56	1.24	-0.9969	0.00	0.00	0.0000	3.75	-1.77	1.3020	0.00	0.00	0.0000
40	-2.56	1.00	-0.9177	0.00	0.00	0.0000	3.69	-1.45	1.2060	0.00	0.00	0.0000
41	-2.55	0.03	-0.0888	0.00	0.00	0.0000	3.29	-0.06	0.3019	0.00	0.00	0.0000
42	-2.55	-0.03	-0.0209	0.00	0.00	0.0000	3.27	0.21	0.2405	0.00	0.00	0.0000
43	-2.55	-0.01	0.0486	0.00	0.00	0.0000	3.25	0.42	0.1727	0.00	0.00	0.0000
44	-2.54	0.91	0.9064	0.00	0.00	0.0000	2.88	-0.25	-0.8421	0.00	0.00	0.0000
45	-2.54	1.15	0.9898	0.00	0.00	0.0000	2.82	-0.47	-0.9519	0.00	0.00	0.0000
46	-2.25	4.87	1.5490	0.00	0.00	0.0000	2.51	-3.38	-1.4446	0.00	0.00	0.0000
47	-2.26	7.77	1.2711	0.00	0.00	0.0000	2.03	-6.10	-1.2099	0.00	0.00	0.0000
48	-2.29	9.71	0.6338	0.00	0.00	0.0000	1.55	-8.02	-0.6566	0.00	0.00	0.0000
49	-2.31	10.20	-0.1635	0.00	0.00	0.0000	1.08	-8.66	0.0048	0.00	0.00	0.0000
50	-2.34	9.09	-0.9198	0.00	0.00	0.0000	0.62	-8.04	0.5974	0.00	0.00	0.0000
51	-2.36	6.68	-1.4332	0.00	0.00	0.0000	0.16	-6.34	1.0937	0.00	0.00	0.0000
52	-2.37	4.79	-1.5507	0.00	0.00	0.0000	-0.13	-4.81	1.3431	0.00	0.00	0.0000
53	-2.32	2.19	-1.3516	0.00	0.00	0.0000	-0.57	-2.38	1.3394	0.00	0.00	0.0000
54	-2.32	0.77	-0.9687	0.00	0.00	0.0000	-0.82	-0.92	1.0697	0.00	0.00	0.0000

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時 変位 **

		Shrinkage		Relaxation			TOTAL					
		乾燥収縮			Relaxation			TOTAL				
節点	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)	X(mm)	Y(mm)	R(mrad)
1	9.64	1.12	0.1000	-0.19	0.00	0.0495	20.61	1.05	-2.0388			
2	9.49	1.17	0.0857	-0.19	0.04	0.0461	20.30	-0.45	-1.6830			
3	9.28	1.26	0.0626	-0.19	0.09	0.0400	19.83	-2.19	-1.2170			
4	9.17	1.30	0.0495	-0.19	0.11	0.0363	19.58	-2.88	-0.9974			
5	8.95	1.34	0.0218	-0.19	0.15	0.0281	19.09	-3.86	-0.5728			
6	8.59	1.34	-0.0193	-0.18	0.20	0.0142	18.30	-4.43	-0.0362			
7	8.24	1.27	-0.0504	-0.18	0.21	0.0008	17.49	-4.15	0.2854			
8	7.88	1.15	-0.0687	-0.18	0.20	-0.0116	16.68	-3.35	0.5099			
9	7.53	1.01	-0.0690	-0.17	0.17	-0.0217	15.86	-2.15	0.6717			
10	7.18	0.89	-0.0411	-0.17	0.12	-0.0270	15.05	-0.77	0.6557			
11	6.82	0.87	0.0222	-0.16	0.06	-0.0254	14.23	0.35	0.4381			
12	6.78	0.88	0.0330	-0.16	0.06	-0.0247	14.13	0.46	0.4028			
13	6.47	1.00	0.1153	-0.16	0.02	-0.0174	13.43	0.97	0.2122			
14	6.28	1.14	0.1203	-0.16	0.00	-0.0169	13.23	1.21	0.2125			
15	6.10	1.24	0.1198	-0.16	-0.02	-0.0163	13.03	1.39	0.2011			
16	5.80	1.44	0.1052	-0.16	-0.03	-0.0067	12.37	1.46	-0.1211			
17	5.75	1.47	0.1017	-0.16	-0.04	-0.0057	12.27	1.43	-0.1665			
18	5.60	1.55	0.0854	-0.10	0.01	0.0106	13.09	2.19	-0.0639			
19	5.25	1.68	0.0416	-0.10	0.04	0.0116	12.30	1.87	-0.2148			
20	4.90	1.71	-0.0063	-0.10	0.06	0.0081	11.50	1.42	-0.2225			
21	4.54	1.65	-0.0516	-0.09	0.07	0.0017	10.70	1.05	-0.1112			
22	4.19	1.51	-0.0854	-0.09	0.06	-0.0052	9.91	1.00	0.0449			
23	3.84	1.33	-0.0969	-0.09	0.05	-0.0101	9.12	1.17	0.1026			
24	3.49	1.15	-0.0774	-0.08	0.03	-0.0110	8.34	1.33	0.0264			
25	3.31	1.08	-0.0539	-0.08	0.02	-0.0096	7.95	1.32	-0.0511			
26	3.27	1.07	-0.0463	-0.08	0.01	-0.0090	7.85	1.31	-0.0694			
27	2.96	1.03	0.0159	-0.08	0.00	-0.0034	7.20	1.11	-0.1221			
28	2.78	1.09	0.0199	-0.08	0.00	-0.0031	6.99	1.03	-0.1127			
29	2.60	1.07	0.0212	-0.08	0.00	-0.0026	6.79	0.88	-0.1164			
30	2.29	1.13	0.0382	-0.07	0.00	0.0040	6.14	0.50	-0.3206			
31	2.25	1.14	0.0394	-0.07	0.00	0.0046	6.05	0.42	-0.3514			
32	2.15	1.18	0.0418	-0.08	0.03	0.0119	6.15	0.69	-0.2828			
33	1.80	1.25	0.0282	-0.07	0.05	0.0108	5.37	0.02	-0.3455			
34	1.45	1.28	0.0040	-0.07	0.07	0.0060	4.59	-0.62	-0.2775			
35	1.10	1.26	-0.0238	-0.07	0.08	-0.0010	3.80	-1.02	-0.0962			
36	0.75	1.19	-0.0459	-0.06	0.07	-0.0079	3.00	-0.96	0.1421			
37	0.40	1.09	-0.0515	-0.06	0.05	-0.0122	2.21	-0.50	0.3001			
38	0.05	1.00	-0.0316	-0.06	0.02	-0.0116	1.41	0.16	0.3224			
39	-0.12	0.98	-0.0101	-0.05	0.01	-0.0090	1.01	0.46	0.2860			
40	-0.17	0.98	-0.0032	-0.05	0.01	-0.0082	0.91	0.53	0.2769			
41	-0.47	1.02	0.0526	-0.05	0.00	-0.0001	0.22	0.99	0.2656			
42	-0.66	1.12	0.0561	-0.05	0.00	0.0005	0.02	1.30	0.2762			
43	-0.84	1.13	0.0607	-0.05	0.00	0.0011	-0.19	1.54	0.2831			
44	-1.14	1.30	0.1280	-0.05	0.01	0.0100	-0.85	1.98	0.2023			
45	-1.19	1.34	0.1354	-0.05	0.01	0.0109	-0.95	2.03	0.1843			
46	-1.41	1.65	0.1693	-0.05	0.07	0.0196	-1.20	3.20	0.2933			
47	-1.76	1.98	0.1595	-0.05	0.11	0.0165	-2.04	3.75	0.2372			
48	-2.11	2.26	0.1181	-0.04	0.13	0.0102	-2.89	4.09	0.1055			
49	-2.46	2.43	0.0516	-0.04	0.15	0.0020	-3.73	4.11	-0.1052			
50	-2.82	2.45	-0.0350	-0.04	0.14	-0.0066	-4.57	3.64	-0.3640			
51	-3.17	2.28	-0.1402	-0.03	0.12	-0.0154	-5.40	2.74	-0.4951			
52	-3.39	2.06	-0.2148	-0.03	0.10	-0.0211	-5.92	2.14	-0.4434			
53	-3.68	1.59	-0.3115	-0.03	0.06	-0.0264	-6.59	1.45	-0.3501			
54	-3.89	1.18	-0.3704	-0.02	0.02	-0.0282	-7.05	1.06	-0.2976			

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　変位 **

節点	自重＋橋面工 X(mm)	Y(mm)	R(mrad)	架設荷重 X(mm)	Y(mm)	R(mrad)	桁内Cable(PS) X(mm)	Y(mm)	R(mrad)	Stay(PS) X(mm)	Y(mm)	R(mrad)
55	-2.32	0.01	-0.9281	0.00	0.00	0.0000	-0.83	-0.07	1.0415	0.00	0.00	0.0000
56	0.00	-0.10	0.0000	0.00	0.00	0.0000	0.00	0.03	0.0000	0.00	0.00	0.0000
57	0.00	-0.09	0.0000	0.00	0.00	0.0000	0.00	0.03	0.0000	0.00	0.00	0.0000
58	0.00	-0.08	0.0000	0.00	0.00	0.0000	0.00	0.02	0.0000	0.00	0.00	0.0000
59	0.00	-0.08	0.0000	0.00	0.00	0.0000	0.00	0.02	0.0000	0.00	0.00	0.0000
60	0.00	-0.07	0.0000	0.00	0.00	0.0000	0.00	0.02	0.0000	0.00	0.00	0.0000
61	-4.39	0.16	-1.1633	0.00	0.00	0.0000	11.40	-0.09	1.2741	0.00	0.00	0.0000
62	-3.12	0.15	-0.9543	0.00	0.00	0.0000	9.83	-0.09	1.3270	0.00	0.00	0.0000
63	-1.55	0.13	-0.6133	0.00	0.00	0.0000	7.26	-0.08	1.1994	0.00	0.00	0.0000
64	-0.66	0.12	-0.2815	0.00	0.00	0.0000	5.21	-0.07	0.8023	0.00	0.00	0.0000
65	-0.44	0.11	-0.0868	0.00	0.00	0.0000	4.46	-0.07	0.4346	0.00	0.00	0.0000
66	-2.84	-0.06	0.0024	0.00	0.00	0.0000	7.24	0.00	-0.1304	0.00	0.00	0.0000
67	-2.79	-0.05	-0.1062	0.00	0.00	0.0000	7.20	0.00	0.1831	0.00	0.00	0.0000
68	-2.44	-0.05	-0.2211	0.00	0.00	0.0000	6.43	0.00	0.5321	0.00	0.00	0.0000
69	-1.99	-0.04	-0.2079	0.00	0.00	0.0000	5.31	0.00	0.5337	0.00	0.00	0.0000
70	-1.80	-0.04	-0.1515	0.00	0.00	0.0000	4.82	0.00	0.3999	0.00	0.00	0.0000
71	-2.53	-0.03	-0.0216	0.00	0.00	0.0000	3.07	0.21	0.2409	0.00	0.00	0.0000
72	-2.46	-0.03	-0.1111	0.00	0.00	0.0000	2.80	0.20	0.2854	0.00	0.00	0.0000
73	-2.13	-0.02	-0.2025	0.00	0.00	0.0000	2.20	0.18	0.2991	0.00	0.00	0.0000
74	-1.72	-0.02	-0.1841	0.00	0.00	0.0000	1.67	0.16	0.2160	0.00	0.00	0.0000
75	-1.56	-0.02	-0.1321	0.00	0.00	0.0000	1.49	0.16	0.1360	0.00	0.00	0.0000
76	-1.55	0.01	-0.9241	0.00	0.00	0.0000	-1.69	-0.07	1.0343	0.00	0.00	0.0000
77	-0.98	0.01	-0.7766	0.00	0.00	0.0000	-2.30	-0.07	0.7849	0.00	0.00	0.0000
78	0.18	0.01	-0.3920	0.00	0.00	0.0000	-3.25	-0.06	0.2090	0.00	0.00	0.0000
79	0.64	0.01	-0.0855	0.00	0.00	0.0000	-3.30	-0.06	-0.1230	0.00	0.00	0.0000
80	0.67	0.01	0.0003	0.00	0.00	0.0000	-3.20	-0.05	-0.1800	0.00	0.00	0.0000

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　変位 **

節点	乾燥収縮 X(mm)	乾燥収縮 Y(mm)	乾燥収縮 R(mrad)	Relaxation X(mm)	Relaxation Y(mm)	Relaxation R(mrad)	TOTAL X(mm)	TOTAL Y(mm)	TOTAL R(mrad)	X(mm)	Y(mm)	R(mrad)
55	-4.04	0.93	-0.3745	-0.02	0.00	-0.0282	-7.21	0.87	-0.2894			
56	0.00	1.12	0.0000	0.00	0.00	0.0000	0.00	1.05	0.0000			
57	0.00	0.91	0.0000	0.00	0.00	0.0000	0.00	0.84	0.0000			
58	0.00	0.55	0.0000	0.00	0.00	0.0000	0.00	0.49	0.0000			
59	0.00	0.20	0.0000	0.00	0.00	0.0000	0.00	0.15	0.0000			
60	0.00	-0.02	0.0000	0.00	0.00	0.0000	0.00	-0.06	0.0000			
61	6.18	1.14	0.1218	-0.15	0.00	-0.0169	13.05	1.20	0.2157			
62	5.89	0.92	0.3444	-0.12	0.00	-0.0207	12.49	0.99	0.6964			
63	4.99	0.57	0.5220	-0.08	0.00	-0.0205	10.62	0.63	1.0877			
64	3.97	0.21	0.4580	-0.05	0.00	-0.0122	8.48	0.26	0.9667			
65	3.50	0.00	0.3036	-0.04	0.00	-0.0033	7.49	0.05	0.6482			
66	2.76	1.09	0.0207	-0.07	0.00	-0.0031	7.09	1.03	-0.1105			
67	2.69	0.90	0.1193	-0.07	0.00	-0.0066	7.04	0.85	0.1896			
68	2.33	0.55	0.2207	-0.05	0.00	-0.0094	6.27	0.49	0.5223			
69	1.89	0.19	0.2014	-0.04	0.00	-0.0065	5.17	0.14	0.5207			
70	1.71	0.01	0.1447	-0.03	0.00	-0.0028	4.70	-0.04	0.3903			
71	-0.70	1.12	0.0558	-0.05	0.00	0.0004	-0.21	1.30	0.2756			
72	-0.74	0.93	0.0125	-0.05	0.00	-0.0030	-0.45	1.11	0.1838			
73	-0.70	0.57	-0.0410	-0.04	0.00	-0.0062	-0.67	0.73	0.0493			
74	-0.60	0.22	-0.0534	-0.03	0.00	-0.0048	-0.68	0.36	-0.0263			
75	-0.55	0.03	-0.0438	-0.02	0.00	-0.0023	-0.65	0.17	-0.0422			
76	-3.73	0.93	-0.3753	0.00	0.00	-0.0280	-6.97	0.87	-0.2931			
77	-3.47	0.81	-0.3917	0.02	0.00	-0.0215	-6.74	0.75	-0.4050			
78	-2.69	0.46	-0.3670	0.04	0.00	-0.0063	-5.73	0.41	-0.5563			
79	-2.08	0.11	-0.2326	0.05	0.00	0.0026	-4.69	0.06	-0.4385			
80	-1.94	-0.01	-0.1624	0.04	0.00	0.0042	-4.43	-0.06	-0.3380			

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　反力 **

節点	自重＋橋面工 RX(kN)	RY(kN)	RM(kNm)	架設荷重 RX(kN)	RY(kN)	RM(kNm)	桁内Cable(PS) RX(kN)	RY(kN)	RM(kNm)	Stay(PS) RX(kN)	RY(kN)	RM(kNm)
60	0.0	-113.3	0.0	0.0	0.0	0.0	0.0	37.0	0.0	0.0	0.0	0.0
65	4.9	181.5	-339.8	0.0	0.0	0.0	142.4	-105.2	732.8	0.0	0.0	0.0
70	-67.7	-65.6	-150.9	0.0	0.0	0.0	183.5	-5.0	369.8	0.0	0.0	0.0
75	-58.0	-31.1	-137.0	0.0	0.0	0.0	51.1	248.2	191.2	0.0	0.0	0.0
80	120.9	28.5	-745.0	0.0	0.0	0.0	-377.0	-175.1	394.8	0.0	0.0	0.0

節点	乾燥収縮 RX(kN)	RY(kN)	RM(kNm)	Relaxation RX(kN)	RY(kN)	RM(kNm)	TOTAL RX(kN)	RY(kN)	RM(kNm)	RX(kN)	RY(kN)	RM(kNm)
60	0.0	-24.1	0.0	0.0	0.2	0.0	0.0	-100.1	0.0			
65	127.6	0.2	348.4	-1.3	0.0	-4.3	273.6	76.6	737.1			
70	63.7	12.5	149.4	-1.0	-0.1	-4.1	178.5	-58.2	364.2			
75	-21.7	49.6	-30.9	-0.8	0.2	-3.4	-29.5	266.9	19.9			
80	-169.6	-38.2	-699.8	3.1	-0.3	25.4	-422.7	-185.1	-1024.5			

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		自重＋橋面工			架設荷重			桁内Cable(PS)			Stay(PS)		
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
1	2	-52	-204	0	0	0	0	1207	94	469	0	0	0
2	1	-52	-204	-162	0	0	0	1207	94	567	0	0	0
2	3	-215	-190	-162	0	0	0	1420	94	567	0	0	0
3	2	-215	-190	-394	0	0	0	1420	94	733	0	0	0
3	4	-396	-180	-394	0	0	0	1647	95	733	0	0	0
4	3	-396	-180	-525	0	0	0	1647	95	875	0	0	0
4	5	-583	-175	-525	0	0	0	1904	102	875	0	0	0
5	4	-583	-175	-776	0	0	0	1904	102	1107	0	0	0
5	6	-808	-153	-776	0	0	0	2093	25	1107	0	0	0
6	5	-808	-153	-1106	0	0	0	2093	25	1223	0	0	0
6	7	-912	-118	-1106	0	0	0	2045	9	1223	0	0	0
7	6	-912	-118	-1342	0	0	0	2045	9	1247	0	0	0
7	8	-849	-83	-1342	0	0	0	1896	-3	1247	0	0	0
8	7	-849	-83	-1485	0	0	0	1896	-3	1192	0	0	0
8	9	-599	-55	-1485	0	0	0	1566	-44	1192	0	0	0
9	8	-599	-55	-1539	0	0	0	1566	-44	977	0	0	0
9	10	-217	-50	-1539	0	0	0	1031	-64	977	0	0	0
10	9	-217	-50	-1595	0	0	0	1031	-64	700	0	0	0
10	11	59	-73	-1595	0	0	0	684	-14	700	0	0	0
11	10	59	-73	-1747	0	0	0	684	-14	594	0	0	0
11	12	68	-87	-1747	0	0	0	703	9	594	0	0	0
12	11	68	-87	-1785	0	0	0	703	9	552	0	0	0
12	13	-41	-88	-1785	0	0	0	815	11	552	0	0	0
13	12	-41	-88	-1979	0	0	0	815	11	593	0	0	0
13	14	-26	-110	-1979	0	0	0	102	36	593	0	0	0
14	13	-26	-110	-2127	0	0	0	102	36	681	0	0	0
14	15	-20	65	-1752	0	0	0	243	-67	976	0	0	0
15	14	-20	65	-1639	0	0	0	243	-67	849	0	0	0
15	16	1	42	-1639	0	0	0	859	-34	849	0	0	0
16	15	1	42	-1510	0	0	0	859	-34	752	0	0	0
16	17	141	37	-1510	0	0	0	683	-26	752	0	0	0
17	16	141	37	-1476	0	0	0	683	-26	771	0	0	0
17	18	173	26	-1476	0	0	0	679	-8	771	0	0	0
18	17	173	26	-1411	0	0	0	679	-8	777	0	0	0
18	19	94	8	-1411	0	0	0	788	21	777	0	0	0
19	18	94	8	-1374	0	0	0	788	21	877	0	0	0
19	20	-154	15	-1374	0	0	0	1124	-1	877	0	0	0
20	19	-154	15	-1357	0	0	0	1124	-1	954	0	0	0
20	21	-358	41	-1357	0	0	0	1429	-7	954	0	0	0
21	20	-358	41	-1283	0	0	0	1429	-7	972	0	0	0
21	22	-397	75	-1283	0	0	0	1490	-96	972	0	0	0
22	21	-397	75	-1112	0	0	0	1490	-96	723	0	0	0
22	23	-245	101	-1112	0	0	0	1224	-124	723	0	0	0
23	22	-245	101	-873	0	0	0	1224	-124	353	0	0	0
23	24	-21	105	-873	0	0	0	903	-123	353	0	0	0
24	23	-21	105	-652	0	0	0	903	-123	5	0	0	0
24	25	68	92	-652	0	0	0	803	-95	5	0	0	0
25	24	68	92	-569	0	0	0	803	-95	-135	0	0	0
25	26	65	89	-569	0	0	0	820	-88	-135	0	0	0
26	25	65	89	-553	0	0	0	820	-88	-198	0	0	0
26	27	-8	89	-553	0	0	0	877	-90	-198	0	0	0
27	26	-8	89	-429	0	0	0	877	-90	-349	0	0	0
27	28	-13	70	-429	0	0	0	228	-68	-349	0	0	0
28	27	-13	70	-389	0	0	0	228	-68	-381	0	0	0

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		乾燥収縮			Relaxation			TOTAL					
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
1	2	621	-22	145	-8	0	-3	1767	-131	610			
2	1	621	-22	146	-8	0	-3	1767	-131	547			
2	3	615	-23	146	-9	0	-3	1810	-118	547			
3	2	615	-23	154	-9	0	-3	1810	-118	489			
3	4	609	-23	154	-10	0	-3	1849	-107	489			
4	3	609	-23	172	-10	0	-4	1849	-107	517			
4	5	603	-22	172	-12	0	-4	1911	-94	517			
5	4	603	-22	171	-12	0	-5	1911	-94	496			
5	6	603	-21	171	-13	0	-5	1874	-147	496			
6	5	603	-21	141	-13	0	-5	1874	-147	252			
6	7	611	-21	141	-13	0	-5	1730	-128	252			
7	6	611	-21	97	-13	0	-4	1730	-128	-1			
7	8	622	-21	97	-12	0	-4	1656	-106	-1			
8	7	622	-21	39	-12	0	-3	1656	-106	-255			
8	9	637	-21	39	-10	0	-3	1593	-119	-255			
9	8	637	-21	-49	-10	0	-1	1593	-119	-611			
9	10	652	-21	-49	-7	0	-1	1458	-134	-611			
10	9	652	-21	-178	-7	0	1	1458	-134	-1070			
10	11	654	-23	-178	-5	0	1	1391	-109	-1070			
11	10	654	-23	-306	-5	0	3	1391	-109	-1454			
11	12	647	-22	-306	-5	0	3	1412	-98	-1454			
12	11	647	-22	-370	-5	0	3	1412	-98	-1598			
12	13	634	-23	-370	-5	0	3	1402	-98	-1598			
13	12	634	-23	-468	-5	0	4	1402	-98	-1848			
13	14	660	-24	-468	0	0	4	735	-96	-1848			
14	13	660	-24	-521	0	0	4	735	-96	-1961			
14	15	790	-23	54	-2	0	0	1010	-24	-720			
15	14	790	-23	60	-2	0	0	1010	-24	-728			
15	16	761	-20	60	-6	0	0	1614	-12	-728			
16	15	761	-20	84	-6	0	0	1614	-12	-671			
16	17	749	-24	84	-5	0	0	1567	-14	-671			
17	16	749	-24	127	-5	0	0	1567	-14	-576			
17	18	755	-23	126	-5	0	0	1601	-6	-577			
18	17	755	-23	157	-5	0	0	1601	-6	-475			
18	19	743	-23	157	-5	0	0	1619	4	-475			
19	18	743	-23	177	-5	0	-1	1619	4	-319			
19	20	732	-22	177	-7	0	-1	1694	-9	-319			
20	19	732	-22	180	-7	0	-2	1694	-9	-223			
20	21	729	-21	180	-9	0	-2	1790	10	-223			
21	20	729	-21	153	-9	0	-2	1790	10	-158			
21	22	738	-21	153	-10	0	-2	1820	-41	-158			
22	21	738	-21	89	-10	0	-1	1820	-41	-299			
22	23	757	-21	89	-8	0	-1	1727	-43	-299			
23	22	757	-21	-15	-8	0	0	1727	-43	-533			
23	24	773	-22	-15	-6	0	0	1648	-39	-533			
24	23	773	-22	-139	-6	0	1	1648	-39	-783			
24	25	775	-22	-139	-5	0	1	1640	-24	-783			
25	24	775	-22	-218	-5	0	2	1640	-24	-919			
25	26	773	-22	-218	-6	0	2	1651	-21	-919			
26	25	773	-22	-266	-6	0	3	1651	-21	-1013			
26	27	764	-26	-266	-6	0	3	1626	-26	-1013			
27	26	764	-26	-367	-6	0	3	1626	-26	-1141			
27	28	794	-23	-367	-1	0	3	1007	-21	-1141			
28	27	794	-23	-420	-1	0	3	1007	-21	-1186			

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		自重＋橋面工			架設荷重			桁内Cable(PS)			Stay(PS)		
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
28	29	-81	0	-703	0	0	0	412	-72	509	0	0	0
29	28	-81	0	-665	0	0	0	412	-72	391	0	0	0
29	30	-51	-24	-665	0	0	0	992	-37	391	0	0	0
30	29	-51	-24	-665	0	0	0	992	-37	305	0	0	0
30	31	29	-27	-665	0	0	0	895	-34	305	0	0	0
31	30	29	-27	-656	0	0	0	895	-34	331	0	0	0
31	32	30	-36	-656	0	0	0	934	-18	331	0	0	0
32	31	30	-36	-676	0	0	0	934	-18	352	0	0	0
32	33	-94	-51	-676	0	0	0	1110	11	352	0	0	0
33	32	-94	-51	-785	0	0	0	1110	11	464	0	0	0
33	34	-358	-41	-785	0	0	0	1480	-17	464	0	0	0
34	33	-358	-41	-896	0	0	0	1480	-17	532	0	0	0
34	35	-541	-13	-896	0	0	0	1780	-20	532	0	0	0
35	34	-541	-13	-936	0	0	0	1780	-20	535	0	0	0
35	36	-528	24	-936	0	0	0	1818	-111	535	0	0	0
36	35	-528	24	-866	0	0	0	1818	-111	255	0	0	0
36	37	-313	48	-866	0	0	0	1505	-138	255	0	0	0
37	36	-313	48	-734	0	0	0	1505	-138	-153	0	0	0
37	38	-50	47	-734	0	0	0	1132	-138	-153	0	0	0
38	37	-50	47	-636	0	0	0	1132	-138	-536	0	0	0
38	39	36	31	-636	0	0	0	1015	-105	-536	0	0	0
39	38	36	31	-623	0	0	0	1015	-105	-687	0	0	0
39	40	23	26	-623	0	0	0	1036	-97	-687	0	0	0
40	39	23	26	-625	0	0	0	1036	-97	-754	0	0	0
40	41	-78	28	-625	0	0	0	1115	-103	-754	0	0	0
41	40	-78	28	-617	0	0	0	1115	-103	-923	0	0	0
41	42	-85	5	-617	0	0	0	421	-73	-923	0	0	0
42	41	-85	5	-649	0	0	0	421	-73	-954	0	0	0
42	43	-143	-31	-911	0	0	0	473	175	-794	0	0	0
43	42	-143	-31	-898	0	0	0	473	175	-666	0	0	0
43	44	-109	-58	-898	0	0	0	1120	209	-666	0	0	0
44	43	-109	-58	-949	0	0	0	1120	209	-318	0	0	0
44	45	4	-62	-949	0	0	0	1024	221	-318	0	0	0
45	44	4	-62	-927	0	0	0	1024	221	-224	0	0	0
45	46	1	-86	-927	0	0	0	1112	255	-225	0	0	0
46	45	1	-86	-1071	0	0	0	1112	255	359	0	0	0
46	47	-258	-94	-1071	0	0	0	1399	232	359	0	0	0
47	46	-258	-94	-1275	0	0	0	1399	232	933	0	0	0
47	48	-553	-74	-1275	0	0	0	1665	223	933	0	0	0
48	47	-553	-74	-1452	0	0	0	1665	223	1456	0	0	0
48	49	-726	-41	-1452	0	0	0	1784	167	1456	0	0	0
49	48	-726	-41	-1553	0	0	0	1784	167	1824	0	0	0
49	50	-704	0	-1553	0	0	0	1724	155	1824	0	0	0
50	49	-704	0	-1556	0	0	0	1724	155	2136	0	0	0
50	51	-509	39	-1556	0	0	0	1637	155	2136	0	0	0
51	50	-509	39	-1478	0	0	0	1637	155	2441	0	0	0
51	52	-248	70	-1478	0	0	0	1545	142	2441	0	0	0
52	51	-248	70	-1390	0	0	0	1545	142	2559	0	0	0
52	53	54	70	-1390	0	0	0	1168	40	2559	0	0	0
53	52	54	70	-1293	0	0	0	1168	40	2544	0	0	0
53	54	216	57	-1293	0	0	0	891	105	2544	0	0	0
54	53	216	57	-1348	0	0	0	891	105	2613	0	0	0
54	55	-77	-18	-1348	0	0	0	423	167	2613	0	0	0
55	54	-77	-18	-1460	0	0	0	423	167	2719	0	0	0

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		乾燥収縮			Relaxation			TOTAL					
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
28	29	858	-11	-130	-2	0	0	1186	-82	-322			
29	28	858	-11	-110	-2	0	1	1186	-82	-381			
29	30	828	-7	-110	-6	0	1	1762	-68	-381			
30	29	828	-7	-62	-6	0	0	1762	-68	-420			
30	31	822	-12	-62	-6	0	0	1739	-73	-420			
31	30	822	-12	-15	-6	0	0	1739	-73	-338			
31	32	833	-11	-16	-6	0	0	1790	-65	-339			
32	31	833	-11	28	-6	0	0	1790	-65	-293			
32	33	826	-11	28	-7	0	0	1834	-50	-293			
33	32	826	-11	75	-7	0	-1	1834	-50	-245			
33	34	816	-11	75	-9	0	-1	1928	-69	-245			
34	33	816	-11	102	-9	0	-2	1928	-69	-262			
34	35	811	-10	102	-11	0	-2	2038	-43	-262			
35	34	811	-10	99	-11	0	-3	2038	-43	-303			
35	36	815	-9	99	-11	0	-3	2093	-95	-303			
36	35	815	-9	57	-11	0	-1	2093	-95	-553			
36	37	829	-9	57	-9	0	-1	2011	-98	-553			
37	36	829	-9	-25	-9	0	0	2011	-98	-912			
37	38	842	-10	-25	-7	0	0	1916	-100	-912			
38	37	842	-10	-126	-7	0	1	1916	-100	-1296			
38	39	842	-10	-126	-6	0	1	1886	-83	-1296			
39	38	842	-10	-193	-6	0	1	1886	-83	-1501			
39	40	840	-10	-193	-7	0	1	1891	-80	-1501			
40	39	840	-10	-239	-7	0	2	1891	-80	-1615			
40	41	832	-15	-239	-7	0	2	1861	-89	-1615			
41	40	832	-15	-322	-7	0	2	1861	-89	-1859			
41	42	864	-11	-322	-3	0	2	1196	-78	-1859			
42	41	864	-11	-363	-3	0	2	1196	-78	-1963			
42	43	842	38	-480	-3	0	0	1168	182	-2184			
43	42	842	38	-408	-3	0	0	1168	182	-1971			
43	44	812	41	-408	-8	0	0	1814	192	-1971			
44	43	812	41	-270	-8	0	1	1814	192	-1535			
44	45	817	35	-270	-7	0	1	1837	193	-1535			
45	44	817	35	-193	-7	0	0	1837	193	-1343			
45	46	832	35	-193	-7	0	0	1937	203	-1344			
46	45	832	35	-40	-7	0	0	1937	203	-751			
46	47	815	34	-40	-10	0	0	1945	171	-751			
47	46	815	34	96	-10	0	-1	1945	171	-245			
47	48	789	34	96	-12	0	-1	1888	182	-245			
48	47	789	34	200	-12	0	-2	1888	182	201			
48	49	765	34	200	-13	0	-2	1809	160	201			
49	48	765	34	283	-13	0	-2	1809	160	551			
49	50	747	34	283	-14	0	-2	1752	189	551			
50	49	747	34	353	-14	0	-1	1752	189	931			
50	51	732	34	353	-14	0	-1	1845	228	931			
51	50	732	34	421	-14	0	-1	1845	228	1382			
51	52	720	34	421	-14	0	-1	2002	246	1382			
52	51	720	34	449	-14	0	0	2002	246	1617			
52	53	743	32	449	-11	0	0	1953	142	1617			
53	52	743	32	463	-11	0	2	1953	142	1716			
53	54	770	36	463	-9	0	2	1867	198	1716			
54	53	770	36	475	-9	0	4	1867	198	1744			
54	55	848	38	475	-3	0	4	1190	187	1744			
55	54	848	38	501	-3	0	5	1190	187	1765			

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		自重＋橋面工			架設荷重			桁内Cable(PS)			Stay(PS)		
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
1	56	113	0	0	0	0	0	-37	0	0	0	0	0
56	1	113	0	0	0	0	0	-37	0	0	0	0	0
56	57	113	0	0	0	0	0	-37	0	0	0	0	0
57	56	113	0	0	0	0	0	-37	0	0	0	0	0
57	58	113	0	0	0	0	0	-37	0	0	0	0	0
58	57	113	0	0	0	0	0	-37	0	0	0	0	0
58	59	113	0	0	0	0	0	-37	0	0	0	0	0
59	58	113	0	0	0	0	0	-37	0	0	0	0	0
59	60	113	0	0	0	0	0	-37	0	0	0	0	0
60	59	113	0	0	0	0	0	-37	0	0	0	0	0
14	61	-181	4	-374	0	0	0	105	142	-296	0	0	0
61	14	-181	4	-370	0	0	0	105	142	-178	0	0	0
61	62	-181	4	-370	0	0	0	105	142	-178	0	0	0
62	61	-181	4	-365	0	0	0	105	142	-7	0	0	0
62	63	-181	4	-365	0	0	0	105	142	-7	0	0	0
63	62	-181	4	-355	0	0	0	105	142	277	0	0	0
63	64	-181	4	-355	0	0	0	105	142	277	0	0	0
64	63	-181	4	-345	0	0	0	105	142	561	0	0	0
64	65	-181	4	-345	0	0	0	105	142	561	0	0	0
65	64	-181	4	-339	0	0	0	105	142	732	0	0	0
28	66	65	-67	314	0	0	0	5	183	-891	0	0	0
66	28	65	-67	258	0	0	0	5	183	-740	0	0	0
66	67	65	-67	258	0	0	0	5	183	-740	0	0	0
67	66	65	-67	189	0	0	0	5	183	-552	0	0	0
67	68	65	-67	189	0	0	0	5	183	-552	0	0	0
68	67	65	-67	53	0	0	0	5	183	-185	0	0	0
68	69	65	-67	53	0	0	0	5	183	-185	0	0	0
69	68	65	-67	-81	0	0	0	5	183	181	0	0	0
69	70	65	-67	-81	0	0	0	5	183	181	0	0	0
70	69	65	-67	-150	0	0	0	5	183	369	0	0	0
42	71	31	-58	262	0	0	0	-248	51	-160	0	0	0
71	42	31	-58	214	0	0	0	-248	51	-117	0	0	0
71	72	31	-58	214	0	0	0	-248	51	-117	0	0	0
72	71	31	-58	154	0	0	0	-248	51	-65	0	0	0
72	73	31	-58	154	0	0	0	-248	51	-65	0	0	0
73	72	31	-58	38	0	0	0	-248	51	36	0	0	0
73	74	31	-58	38	0	0	0	-248	51	36	0	0	0
74	73	31	-58	-77	0	0	0	-248	51	138	0	0	0
74	75	31	-58	-77	0	0	0	-248	51	138	0	0	0
75	74	31	-58	-137	0	0	0	-248	51	191	0	0	0
55	76	-28	120	-1491	0	0	0	175	-377	2722	0	0	0
76	55	-28	120	-1391	0	0	0	175	-377	2411	0	0	0
76	77	-28	120	-1391	0	0	0	175	-377	2411	0	0	0
77	76	-28	120	-1309	0	0	0	175	-377	2157	0	0	0
77	78	-28	120	-1309	0	0	0	175	-377	2157	0	0	0
78	77	-28	120	-1068	0	0	0	175	-377	1403	0	0	0
78	79	-28	120	-1068	0	0	0	175	-377	1403	0	0	0
79	78	-28	120	-826	0	0	0	175	-377	649	0	0	0
79	80	-28	120	-826	0	0	0	175	-377	649	0	0	0
80	79	-28	120	-744	0	0	0	175	-377	394	0	0	0

*** BALARAJA Flyover 4 Span Continuous P6-A2 B=13.0m 2columns ***

** 終了時　外的及び内的不静定力 **

部材		乾燥収縮			Relaxation			TOTAL					
		N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)	N(kN)	S(kN)	M(kNm)
1	56	24	0	0	0	0	0	98	0	0			
56	1	24	0	0	0	0	0	98	0	0			
56	57	24	0	0	0	0	0	98	0	0			
57	56	24	0	0	0	0	0	98	0	0			
57	58	24	0	0	0	0	0	98	0	0			
58	57	24	0	0	0	0	0	98	0	0			
58	59	24	0	0	0	0	0	98	0	0			
59	58	24	0	0	0	0	0	98	0	0			
59	60	24	0	0	0	0	0	98	0	0			
60	59	24	0	0	0	0	0	98	0	0			
14	61	0	127	-573	0	-1	4	-75	271	-1238			
61	14	0	127	-468	0	-1	3	-75	271	-1012			
61	62	0	127	-468	0	-1	3	-75	271	-1012			
62	61	0	127	-315	0	-1	2	-75	271	-684			
62	63	0	127	-315	0	-1	2	-75	271	-684			
63	62	0	127	-60	0	-1	0	-75	271	-137			
63	64	0	127	-60	0	-1	0	-75	271	-137			
64	63	0	127	195	0	-1	-2	-75	271	408			
64	65	0	127	195	0	-1	-2	-75	271	408			
65	64	0	127	348	0	-1	-4	-75	271	736			
28	66	-12	63	-288	0	-1	3	57	177	-861			
66	28	-12	63	-236	0	-1	2	57	177	-715			
66	67	-12	63	-236	0	-1	2	57	177	-715			
67	66	-12	63	-170	0	-1	1	57	177	-531			
67	68	-12	63	-170	0	-1	1	57	177	-531			
68	67	-12	63	-43	0	-1	0	57	177	-175			
68	69	-12	63	-43	0	-1	0	57	177	-175			
69	68	-12	63	84	0	-1	-3	57	177	180			
69	70	-12	63	84	0	-1	-3	57	177	180			
70	69	-12	63	149	0	-1	-4	57	177	363			
42	71	-49	-21	118	0	0	2	-266	-27	221			
71	42	-49	-21	100	0	0	1	-266	-27	197			
71	72	-49	-21	100	0	0	1	-266	-27	197			
72	71	-49	-21	78	0	0	0	-266	-27	166			
72	73	-49	-21	78	0	0	0	-266	-27	166			
73	72	-49	-21	34	0	0	0	-266	-27	107			
73	74	-49	-21	34	0	0	0	-266	-27	107			
74	73	-49	-21	-8	0	0	-2	-266	-27	49			
74	75	-49	-21	-8	0	0	-2	-266	-27	49			
75	74	-49	-21	-30	0	0	-3	-266	-27	19			
55	76	38	-169	347	0	3	6	185	-422	1584			
76	55	38	-169	207	0	3	8	185	-422	1235			
76	77	38	-169	207	0	3	8	185	-422	1235			
77	76	38	-169	93	0	3	10	185	-422	951			
77	78	38	-169	93	0	3	10	185	-422	951			
78	77	38	-169	-245	0	3	17	185	-422	106			
78	79	38	-169	-245	0	3	17	185	-422	106			
79	78	38	-169	-585	0	3	23	185	-422	-737			
79	80	38	-169	-585	0	3	23	185	-422	-737			
80	79	38	-169	-699	0	3	25	185	-422	-1022			