

The Circular Concrete Viaduct

Development of Concept Demountable Footing to Foundation (F2F) Dowel Connection for the Application in Multiple Life-Cycles

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CIE5060-09 MSc Thesis

SCIA Engineering Report - Standard Viaduct Model

December 24, 2020



The Circular Concrete Viaduct

Development of Concept Demountable Footings to Foundation (F2F) Dowel Connections for the Application in Multiple Life-Cycles

by

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to obtain the degree of Master of Science
at the Delft University of Technology,
to be defended publicly on Thursday January 14, 2021 at 14:30 PM.

Faculty of Civil Engineering and Geosciences
Track "Structural Engineering"
Specialisation "Concrete Structures"

in collaboration with:



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Introduction

This report contains the Engineering Report of the standard viaduct model, developed in SCIA Engineer 19.1.3030 (student version), which belongs to the thesis report “The Circular Concrete Viaduct – Development of a Concept Demountable Footing to Foundation (F2F) Dowel Connection for the Application in Multiple Life-Cycles”. The report provides detailed information about the properties and input of the model as well as the main relevant results, which are the critical cross-sectional forces at the footing to foundation interface in both ULS and SLS.

Project Thesis "The Circular Concrete Viaduct"**1. Project**

Licence name	TU Delft
Project	Thesis "The Circular Concrete Viaduct"
Part	Standard viaduct
Description	Calculation of critical cross-sectional forces at footing to foundation interfaces
Author	JWB
Date	11.11. 2020
Structure	General XYZ
No. of nodes :	614
No. of beams :	478
No. of slabs :	25
No. of solids :	0
No. of used profiles :	9
No. of load cases :	100
No. of used materials :	4
Acceleration of gravity [m/s ²]	9,810
National code	EC - EN

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3. Materials

Steel EC3

Name	ρ [kg/m ³]	E_{mod} [MPa] G_{mod} [MPa]	μ α [m/mK]	Lower limit [mm]	Upper limit [mm]	F_y [MPa]	F_u [MPa]	Colour
S 355	7850,0	2,1000e+05 8,0769e+04	0.3 0,00	0 40	40 80	355,0 335,0	490,0 470,0	

Name	Type	ρ [kg/m ³]	Density in fresh state [kg/m ³]	E_{mod} [MPa]	μ	α [m/mK]	$f_{c,k,28}$ [MPa]	Colour
C30/37 - cracked	Concrete	2500,0	2600,0	1,6450e+04	0.2	0,00	30,00	
C60/75 - weightless	Concrete	0,0	0,0	3,9100e+04	0.2	0,00	60,00	

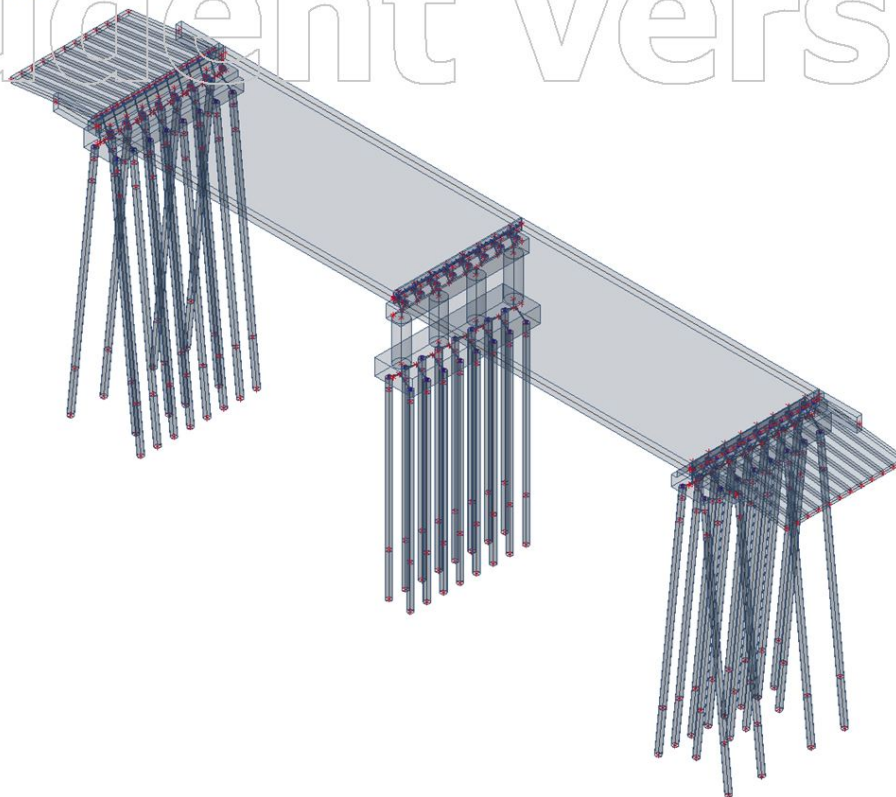
Explanations of symbols

Density in fresh state	The value in the density in fresh state property is used only in case a composite deck is input and its self-weight load is taken into account.
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MaterialB

Name	E_{mod} [MPa]	Poisson - ν	Unit mass [kg/m ³]	Log. decrement (non-uniform damping only)	Specific heat [J/gK]
Type	G_{mod} [MPa]				
Dummy	1,0000e+14	0.0001	0,0	0.15	6,0000e-01
General material	4,9995e+13				

4. Analysis model




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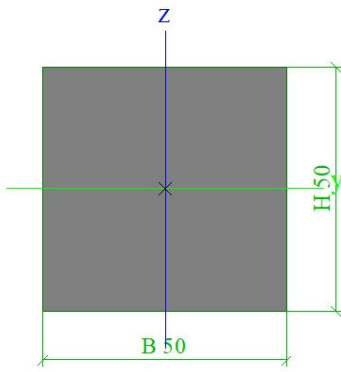

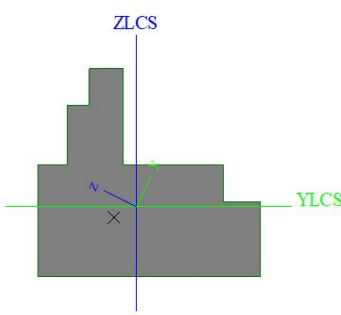

5. 2D members

Name	Layer	Type	Element type	Material	Thickness type	Th. [mm]
Span1	Deck	plate (90)	Standard	C60/75 - weightless		1000
Transition joint	Deck	plate (90)	Standard	C30/37 - cracked	constant	150
Span2	Deck	plate (90)	Standard	C60/75 - weightless		1000
Transition slab	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab1	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab2	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab3	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab4	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab5	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab6	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab7	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab8	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab9	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab10	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab11	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab12	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab13	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab14	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab15	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab16	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab17	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab18	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab19	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab20	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500
Transition slab21	Transition slabs	plate (90)	Standard	C30/37 - cracked	constant	500

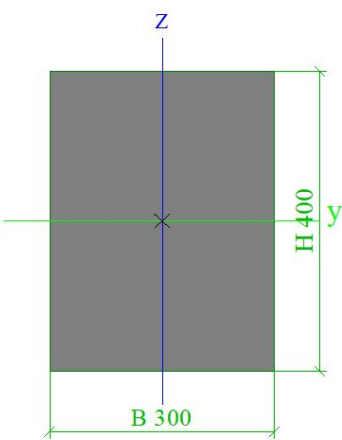
6. Cross-sections

Dummy			
Type	Rechthoek		
Detailed	50; 50		
Shape type	Thick-walled		
Item material	Dummy		
Fabrication	general		
Colour			
A [m ²]	2,5000e-03		
A _y [m ²], A _z [m ²]	2,0854e-03	2,0854e-03	
A _L [m ² /m], A _D [m ² /m]	2,0000e-01	2,0000e-01	
c _{y,ucs} [mm], c _{z,ucs} [mm]	25	25	
α [deg]	0,00		
I _y [m ⁴], I _z [m ⁴]	5,2083e-07	5,2083e-07	
i _y [mm], i _z [mm]	14	14	
W _{el,y} [m ³], W _{el,z} [m ³]	2,0833e-05	2,0833e-05	
W _{pl,y} [m ³], W _{pl,z} [m ³]	3,1250e-05	3,1250e-05	
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	7,50e+03	7,50e+03	
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	7,50e+03	7,50e+03	
d _y [mm], d _z [mm]	0	0	
I _t [m ⁴], I _w [m ⁶]	8,7752e-07	1,9852e-12	
β _y [mm], β _z [mm]	0	0	


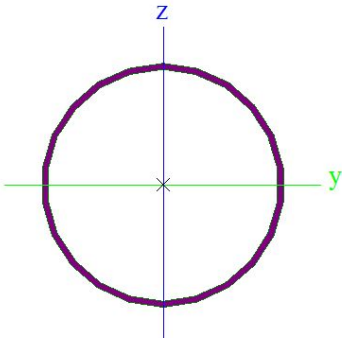
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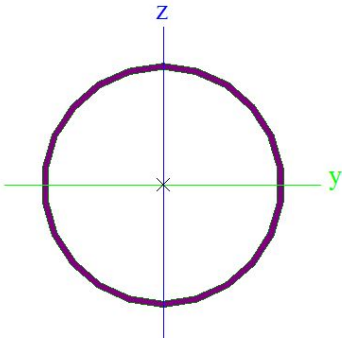
Picture		
Abutment footing		
Type	Abutment	
Shape type	Thin-walled	
Item material	C30/37 - cracked	
Fabrication	concrete	
Colour		
A [m²]	5,0750e+00	
A _y [m²], A _z [m²]	4,9116e+00	4,1789e+00
A _L [m²/m], A _D [m²/m]	1,1600e+01	1,1600e+01
c _{y,UCS} [mm], c _{z,UCS} [mm]	1327	941
I _{y,LCS} [m⁴], I _{z,LCS} [m⁴]	2,1498e+00	3,2493e+00
I _{yz,LCS} [m⁴]	-7,2178e-01	
α [deg]	63,65	
I _y [m⁴], I _z [m⁴]	3,6069e+00	1,7923e+00
i _y [mm], i _z [mm]	843	594
W _{el,y} [m³], W _{el,z} [m³]	1,8818e+00	1,1293e+00
W _{pl,y} [m³], W _{pl,z} [m³]	0,0000e+00	0,0000e+00
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	0,00e+00	0,00e+00
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	0,00e+00	0,00e+00
d _y [mm], d _z [mm]	-263	205
I _t [m⁴], I _w [m⁶]	2,2784e+00	3,1832e-01
β _y [mm], β _z [mm]	-458	880
Picture		
Bearing_dummy		
Type	Rechthoek	
Detailed	400; 300	
Shape type	Thick-walled	
Item material	Dummy	
Fabrication	general	
Colour		
A [m²]	1,2000e-01	
A _y [m²], A _z [m²]	1,0012e-01	1,0007e-01
A _L [m²/m], A _D [m²/m]	1,4000e+00	1,4000e+00
c _{y,UCS} [mm], c _{z,UCS} [mm]	150	200
α [deg]	0,00	
I _y [m⁴], I _z [m⁴]	1,6000e-03	9,0000e-04
i _y [mm], i _z [mm]	115	87
W _{el,y} [m³], W _{el,z} [m³]	8,0000e-03	6,0000e-03
W _{pl,y} [m³], W _{pl,z} [m³]	1,2000e-02	9,0000e-03
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	2,88e+06	2,88e+06
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	2,16e+06	2,16e+06

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d_y [mm], d_z [mm]	0	0
I_t [m ⁴], I_w [m ⁶]	1,9465e-03	1,1197e-06
β_y [mm], β_z [mm]	0	0
Picture		

Steel pipe

Type	CFCHS508X12.5	
Formcode	3 - Circular hollow section	
Shape type	Thin-walled	
Item material	S 355	
Fabrication	cold formed	
Colour		
Flexural buckling y-y, Flexural buckling z-z	c	c
A [m ²]	1,9458e-02	
A_y [m ²], A_z [m ²]	1,2388e-02	1,2388e-02
A_L [m ² /m], A_D [m ² /m]	1,5960e+00	3,1132e+00
$c_{y,UCS}$ [mm], $c_{z,UCS}$ [mm]	254	254
α [deg]	0,00	
I_y [m ⁴], I_z [m ⁴]	5,9755e-04	5,9755e-04
i_y [mm], i_z [mm]	175	175
$W_{el,y}$ [m ³], $W_{el,z}$ [m ³]	2,3526e-03	2,3526e-03
$W_{pl,y}$ [m ³], $W_{pl,z}$ [m ³]	3,0697e-03	3,0697e-03
$M_{pl,y,+}$ [Nm], $M_{pl,y,-}$ [Nm]	1,09e+06	1,09e+06
$M_{pl,z,+}$ [Nm], $M_{pl,z,-}$ [Nm]	1,09e+06	1,09e+06
d_y [mm], d_z [mm]	0	0
I_t [m ⁴], I_w [m ⁶]	1,1951e-03	8,3106e-38
β_y [mm], β_z [mm]	0	0
Picture		

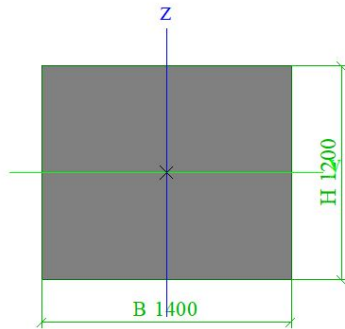
Picture		
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Capping beam

Type	Rechthoek	
Detailed	1200; 1400	
Shape type	Thick-walled	
Item material	C30/37 - cracked	
Fabrication	concrete	
Colour		
A [m ²]	1,6800e+00	

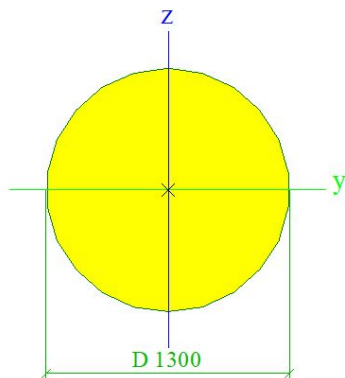
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A_y [m ²], A_z [m ²]	1,4013e+00	1,4017e+00
A_L [m ² /m], A_D [m ² /m]	5,2000e+00	5,2000e+00
$c_{y,ucs}$ [mm], $c_{z,ucs}$ [mm]	700	600
α [deg]	0,00	
I_y [m ⁴], I_z [m ⁴]	2,0160e-01	2,7440e-01
i_y [mm], i_z [mm]	346	404
$W_{el,y}$ [m ³], $W_{el,z}$ [m ³]	3,3600e-01	3,9200e-01
$W_{pl,y}$ [m ³], $W_{pl,z}$ [m ³]	0,0000e+00	0,0000e+00
$M_{pl,y,+}$ [Nm], $M_{pl,y,-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl,z,+}$ [Nm], $M_{pl,z,-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m ⁴], I_w [m ⁶]	3,9190e-01	1,3377e-03
β_y [mm], β_z [mm]	0	0
Picture		



Column


Type	Cirkel	
Detailed	1300	
Shape type	Thick-walled	
Item material	C30/37 - cracked	
Fabrication	concrete	
Colour		
A [m ²]	1,3273e+00	
A_y [m ²], A_z [m ²]	1,1921e+00	1,1921e+00
A_L [m ² /m], A_D [m ² /m]	4,0839e+00	4,0839e+00
$c_{y,ucs}$ [mm], $c_{z,ucs}$ [mm]	650	650
α [deg]	0,00	
I_y [m ⁴], I_z [m ⁴]	1,4020e-01	1,4020e-01
i_y [mm], i_z [mm]	325	325
$W_{el,y}$ [m ³], $W_{el,z}$ [m ³]	2,1569e-01	2,1569e-01
$W_{pl,y}$ [m ³], $W_{pl,z}$ [m ³]	3,6617e-01	3,6617e-01
$M_{pl,y,+}$ [Nm], $M_{pl,y,-}$ [Nm]	0,00e+00	0,00e+00
$M_{pl,z,+}$ [Nm], $M_{pl,z,-}$ [Nm]	0,00e+00	0,00e+00
d_y [mm], d_z [mm]	0	0
I_t [m ⁴], I_w [m ⁶]	2,8105e-01	2,4743e-12
β_y [mm], β_z [mm]	0	0
Picture		

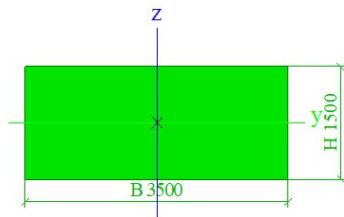


Footing


Type	Rechthoek	
Detailed	1500; 3500	
Shape type	Thick-walled	

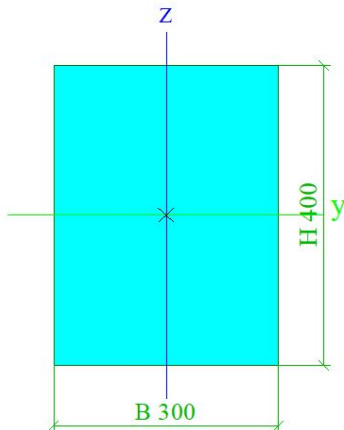
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Item material	C30/37 - cracked concrete	
Fabrication		
Colour		
A [m ²]	5,2500e+00	
A _y [m ²], A _z [m ²]	4,3772e+00	4,3872e+00
A _L [m ² /m], A _D [m ² /m]	1,0000e+01	1,0000e+01
c _{y,ucs} [mm], c _{z,ucs} [mm]	1750	750
α [deg]	0,00	
I _y [m ⁴], I _z [m ⁴]	9,8438e-01	5,3594e+00
i _y [mm], i _z [mm]	433	1010
W _{el,y} [m ³], W _{el,z} [m ³]	1,3125e+00	3,0625e+00
W _{pl,y} [m ³], W _{pl,z} [m ³]	0,0000e+00	0,0000e+00
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	0,00e+00	0,00e+00
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	0,00e+00	0,00e+00
d _y [mm], d _z [mm]	0	0
I _t [m ⁴], I _w [m ⁶]	2,8693e+00	4,7296e-01
β _y [mm], β _z [mm]	0	0
Picture		



Dump (opstort)


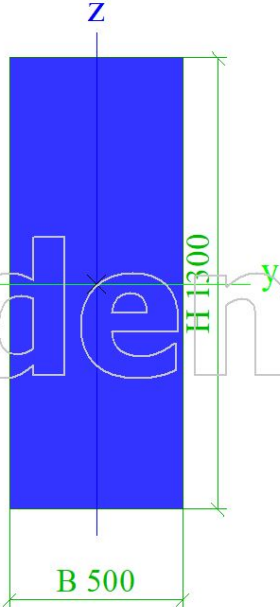
Type	Rectangle	
Detailed	400; 300	
Shape type	Thick-walled	
Item material	C30/37 - cracked concrete	
Fabrication		
Colour		
A [m ²]	1,2000e-01	
A _y [m ²], A _z [m ²]	1,0012e-01	1,0007e-01
A _L [m ² /m], A _D [m ² /m]	1,4000e+00	1,4000e+00
c _{y,ucs} [mm], c _{z,ucs} [mm]	150	200
α [deg]	0,00	
I _y [m ⁴], I _z [m ⁴]	1,6000e-03	9,0000e-04
i _y [mm], i _z [mm]	115	87
W _{el,y} [m ³], W _{el,z} [m ³]	8,0000e-03	6,0000e-03
W _{pl,y} [m ³], W _{pl,z} [m ³]	0,0000e+00	0,0000e+00
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	0,00e+00	0,00e+00
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	0,00e+00	0,00e+00
d _y [mm], d _z [mm]	0	0
I _t [m ⁴], I _w [m ⁶]	1,9465e-03	1,1197e-06
β _y [mm], β _z [mm]	0	0
Picture		



Wing-wall

Type	Rectangle	
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Project Thesis "The Circular Concrete Viaduct"

Detailed	1300; 500	
Shape type	Thick-walled	
Item material	C30/37 - cracked	
Fabrication	concrete	
Colour		
A [m ²]	6,5000e-01	
A _y [m ²], A _z [m ²]	5,4317e-01	5,4189e-01
A _L [m ² /m], A _D [m ² /m]	3,6000e+00	3,6000e+00
c _{y,UCS} [mm], c _{z,UCS} [mm]	250	650
α [deg]	0,00	
I _y [m ⁴], I _z [m ⁴]	9,1542e-02	1,3542e-02
i _y [mm], i _z [mm]	375	144
W _{el,y} [m ³], W _{el,z} [m ³]	1,4083e-01	5,4167e-02
W _{pl,y} [m ³], W _{pl,z} [m ³]	0,0000e+00	0,0000e+00
M _{pl,y,+} [Nm], M _{pl,y,-} [Nm]	0,00e+00	0,00e+00
M _{pl,z,+} [Nm], M _{pl,z,-} [Nm]	0,00e+00	0,00e+00
d _y [mm], d _z [mm]	0	0
I _t [m ⁴], I _w [m ⁶]	4,0962e-02	1,0355e-03
β _y [mm], β _z [mm]	0	0
Picture		

Explanations of symbols	
A	Area
A _y	Shear Area in principal y-direction - Calculated by 2D FEM analysis
A _z	Shear Area in principal z-direction - Calculated by 2D FEM analysis
A _L	Circumference per unit length
A _D	Drying surface per unit length
c _{y,UCS}	Centroid coordinate in Y-direction of Input axis system
c _{z,UCS}	Centroid coordinate in Z-direction of Input axis system
I _{y,LCS}	Second moment of area about the YLCS axis
I _{z,LCS}	Second moment of area about the ZLCS axis
I _{yz,LCS}	Product moment of area in the LCS system
α	Rotation angle of the principal axis system
I _y	Second moment of area about the principal y-axis

Explanations of symbols	
I _z	Second moment of area about the principal z-axis
i _y	Radius of gyration about the principal y-axis
i _z	Radius of gyration about the principal z-axis
W _{el,y}	Elastic section modulus about the principal y-axis
W _{el,z}	Elastic section modulus about the principal z-axis
W _{pl,y}	Plastic section modulus about the principal y-axis
W _{pl,z}	Plastic section modulus about the principal z-axis
M _{pl,y,+}	Plastic moment about the principal y-axis for a positive M _y moment
M _{pl,y,-}	Plastic moment about the principal y-axis for a negative M _y moment
M _{pl,z,+}	Plastic moment about the principal z-axis for a positive M _z moment
M _{pl,z,-}	Plastic moment about the principal z-axis for a negative M _z moment

Project Thesis "The Circular Concrete Viaduct"**Explanations of symbols**

	z-axis for a negative M_z moment
d_y	Shear center coordinate in principal y-direction measured from the centroid - Calculated by 2D FEM analysis
d_z	Shear center coordinate in principal z-direction measured from the centroid - Calculated by 2D FEM analysis

Explanations of symbols

I_t	Torsional constant - Calculated by 2D FEM analysis
I_w	Warping constant - Calculated by 2D FEM analysis
β_y	Mono-symmetry constant about the principal y-axis
β_z	Mono-symmetry constant about the principal z-axis

7. Orthotropy**Transversally post-tensioned**

Type of orthotropy	Standard
Thickness of Plate/Wall [mm]	1000
Material	C60/75 - weightless
D11 [MNm]	1,9030e+03
D22 [MNm]	9,0000e+01
D12 [MNm]	1,8000e+01
D33 [MNm]	2,6400e+02
D44 [MN/m]	3,0630e+03
D55 [MN/m]	3,5980e+03
d11 [MN/m]	1,8662e+04
d22 [MN/m]	1,0795e+04
d12 [MN/m]	2,1590e+03
d33 [MN/m]	5,7770e+03
K xy [MN/m]	1,6860e+03
K yx [MN/m]	7,1000e+01

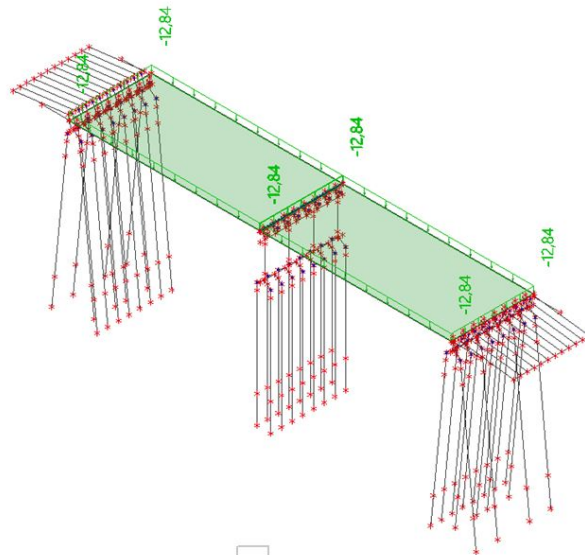
Not transversally post-tensioned

Type of orthotropy	Standard
Thickness of Plate/Wall [mm]	1000
Material	C60/75 - weightless
D11 [MNm]	1,9030e+03
D22 [MNm]	7,8000e+01
D12 [MNm]	1,6000e+01
D33 [MNm]	2,5800e+02
D44 [MN/m]	3,0630e+03
D55 [MN/m]	1,7990e+03
d11 [MN/m]	1,8662e+04
d22 [MN/m]	5,3980e+03
d12 [MN/m]	1,0800e+03
d33 [MN/m]	4,0850e+03
K xy [MN/m]	1,6860e+03
K yx [MN/m]	3,6000e+01

8. Load cases

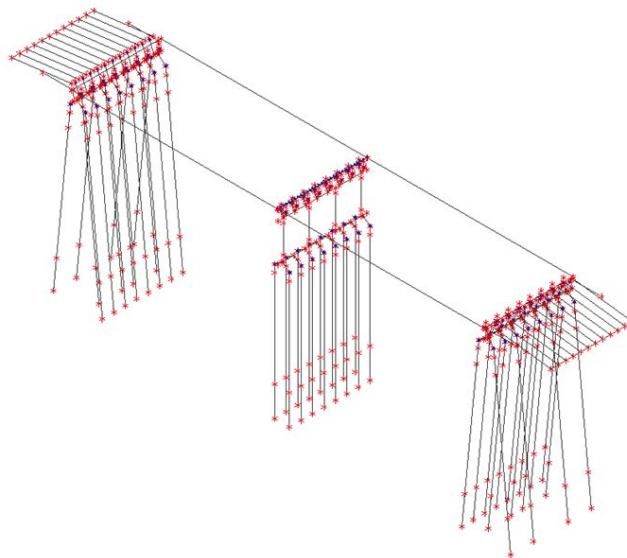
8.1. Load cases - LC1a

Name	Description Spec	Action type Load type	Load group
LC1a	Self-weight - Deck	Permanent Standard	Permanent



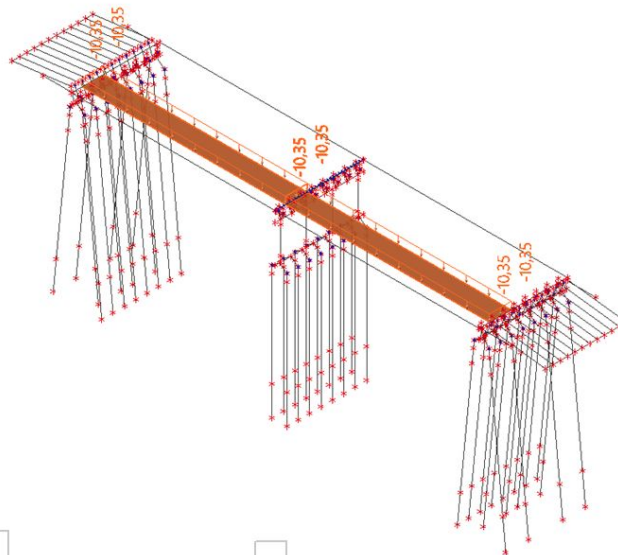
8.2. Load cases - LC1b

Name	Description Spec	Action type Load type	Load group	Direction
LC1b	Self-weight - Other	Permanent Self weight	Permanent	-Z

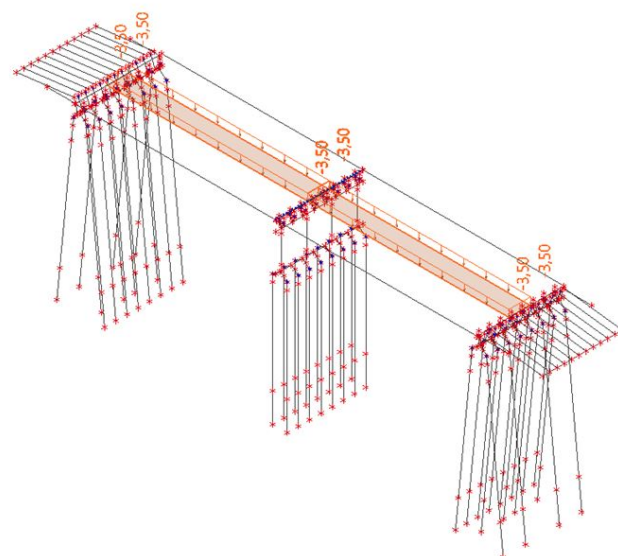


8.5. Load cases - LC11a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC11a	LM1 - deck - edge - UDL - Lane 1	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

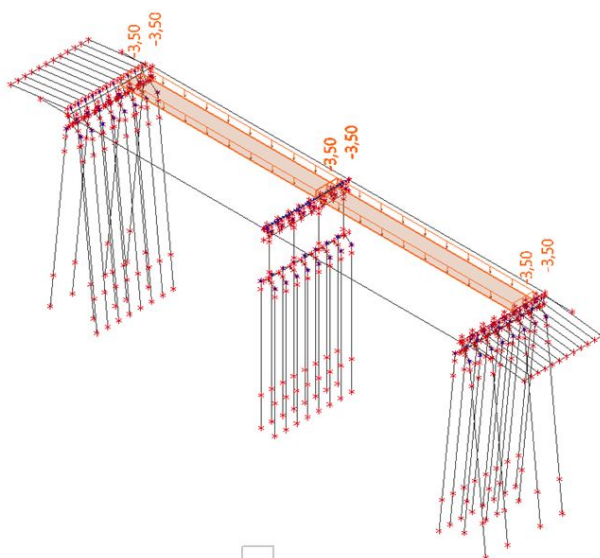
**8.6. Load cases - LC11b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC11b	LM1 - deck - edge - UDL - Lane 2	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

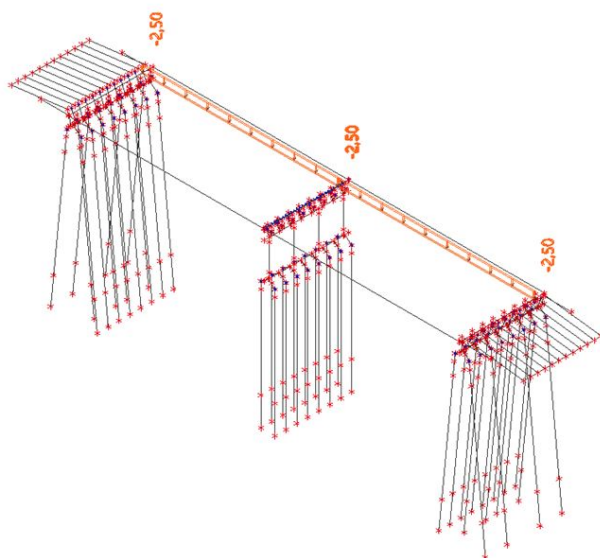


8.7. Load cases - LC11c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC11c	LM1 - deck - edge - UDL - Lane 3	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

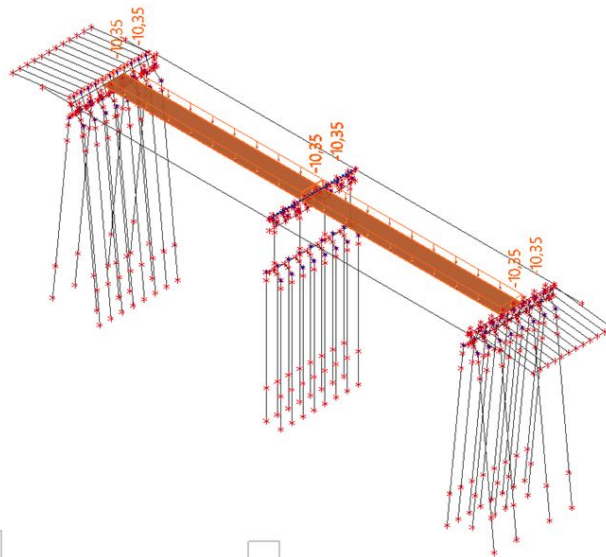
**8.8. Load cases - LC11d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC11d	LM1 - deck - edge - UDL - Remaining	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

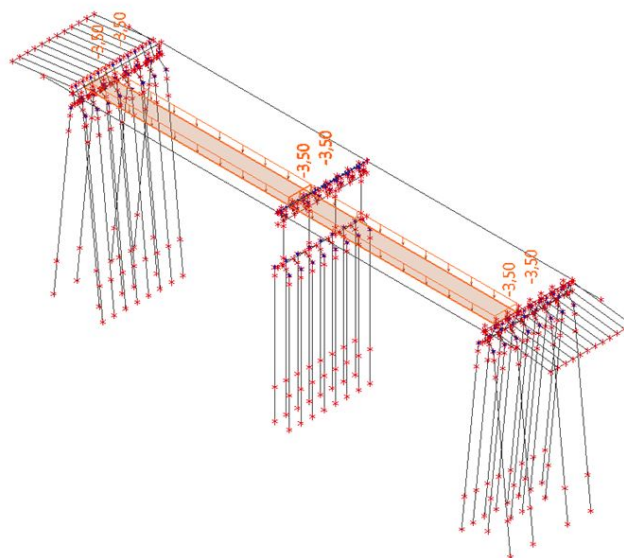


8.9. Load cases - LC12a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC12a	LM1 - deck - center - UDL - Lane 1	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

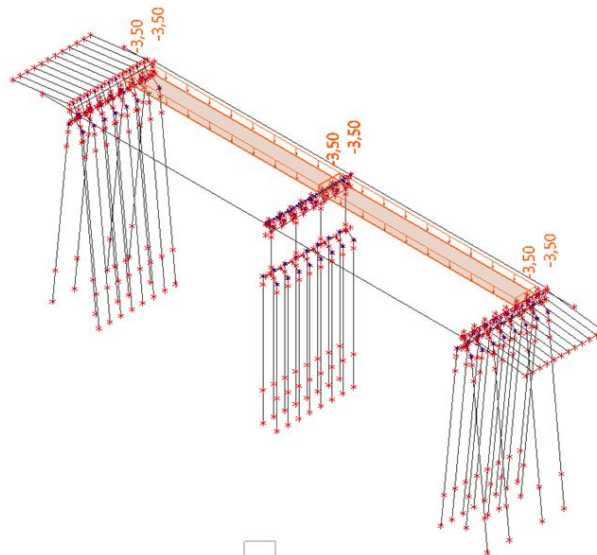
**8.10. Load cases - LC12b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC12b	LM1 - deck - center - UDL - Lane 2	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

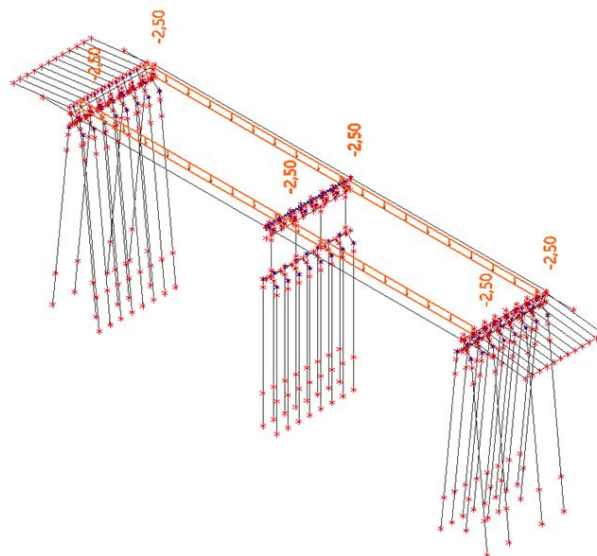


8.11. Load cases - LC12c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC12c	LM1 - deck - center - UDL - Lane 3	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

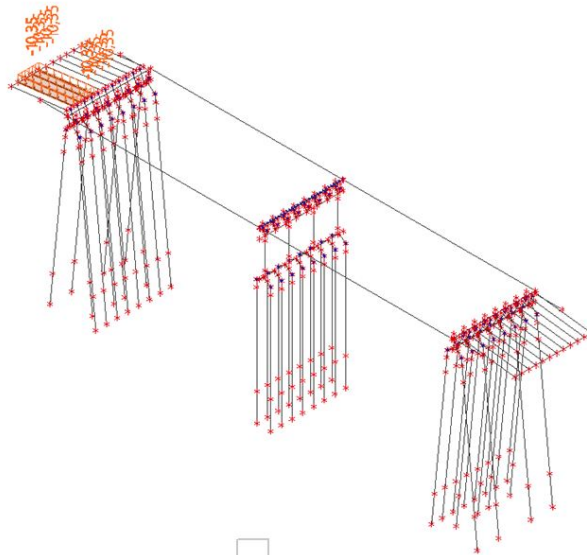
**8.12. Load cases - LC12d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC12d	LM1 - deck - center - UDL - Remaining	Variable	LM1 - deck - gr1a - UDL	Short	None
	Standard	Static			

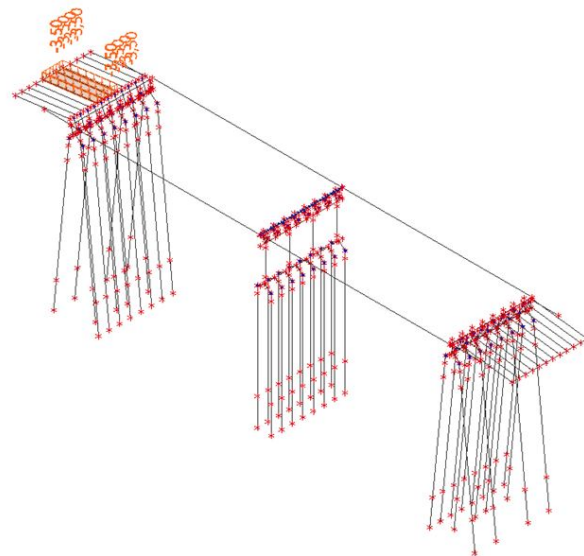


8.13. Load cases - LC13a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC13a	LM1 - T.slab - edge - UDL - Lane 1	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

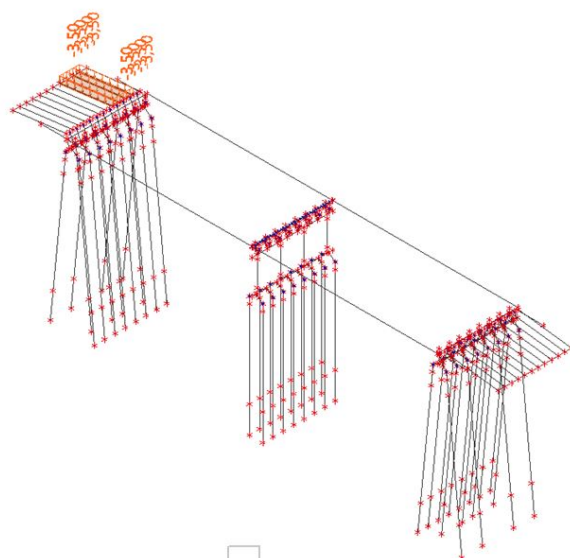
**8.14. Load cases - LC13b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC13b	LM1 - T.slab - edge - UDL - Lane 2	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			



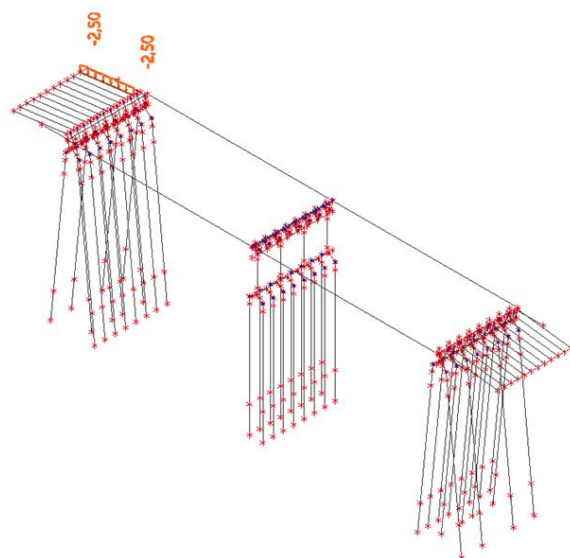
8.15. Load cases - LC13c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC13c	LM1 - T.slab - edge - UDL - Lane 3	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			



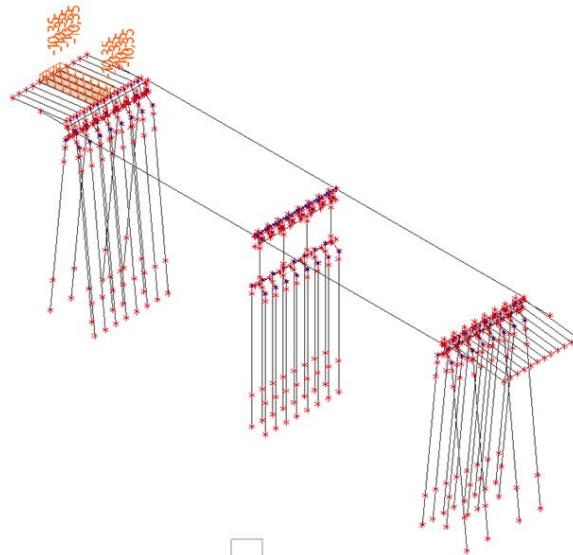
8.16. Load cases - LC13d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC13d	LM1 - T.slab - edge - UDL - Remaining	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

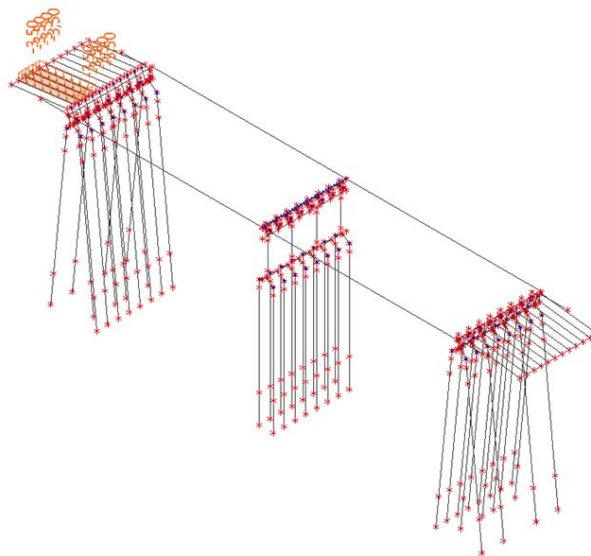


8.17. Load cases - LC14a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC14a	LM1 - T.slab - center - UDL - Lane 1	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

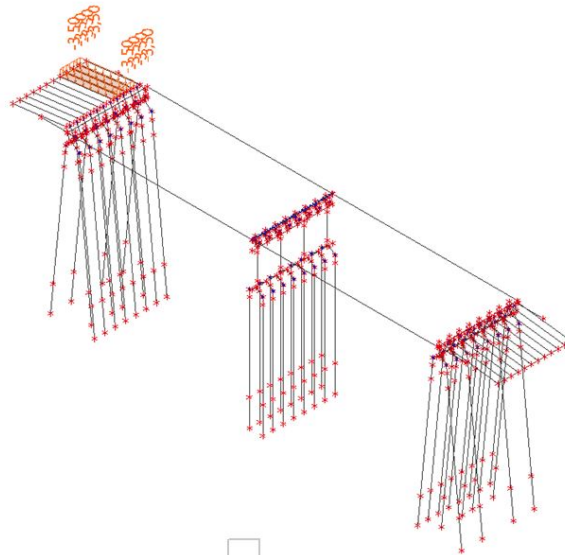
**8.18. Load cases - LC14b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC14b	LM1 - T.slab - center - UDL - Lane 2	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

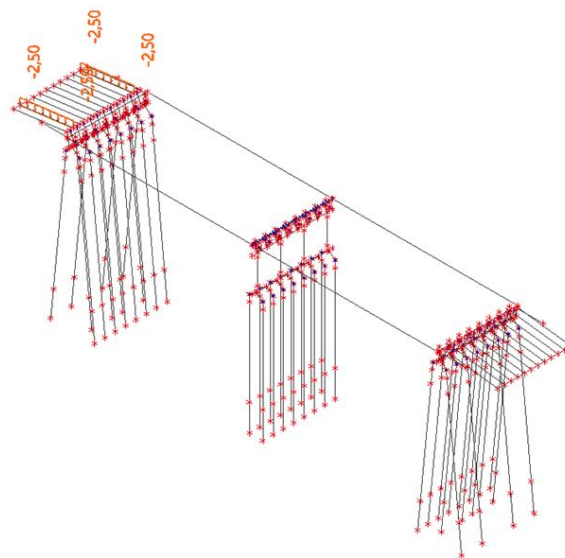


8.19. Load cases - LC14c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC14c	LM1 - T.slab - center - UDL - Lane 3	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

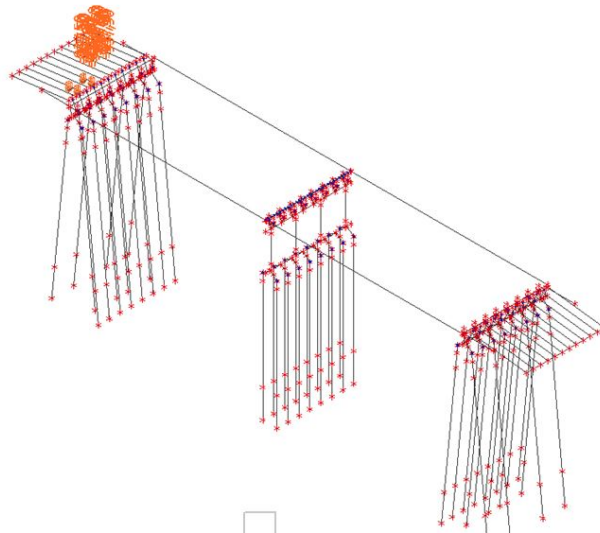
**8.20. Load cases - LC14d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC14d	LM1 - T.slab - center - UDL - Remaining	Variable	LM1 - T.slab - gr1a - UDL	Short	None
	Standard	Static			

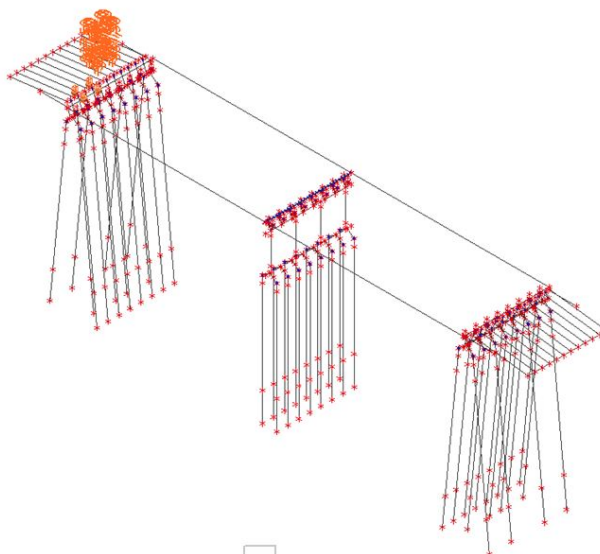


8.21. Load cases - LC15a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15a	LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

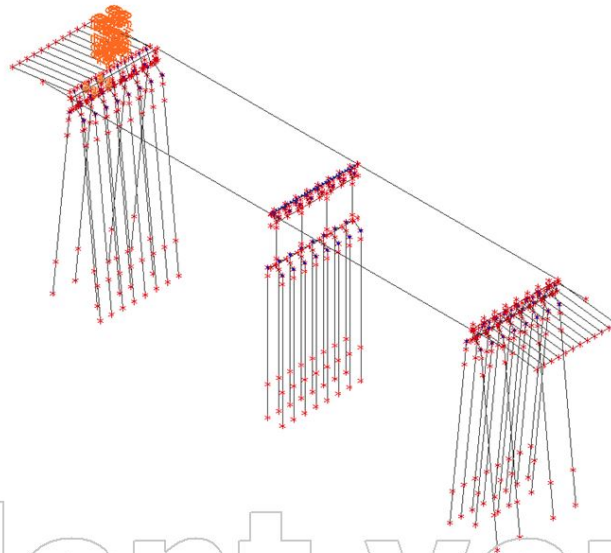
**8.22. Load cases - LC15b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15b	LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

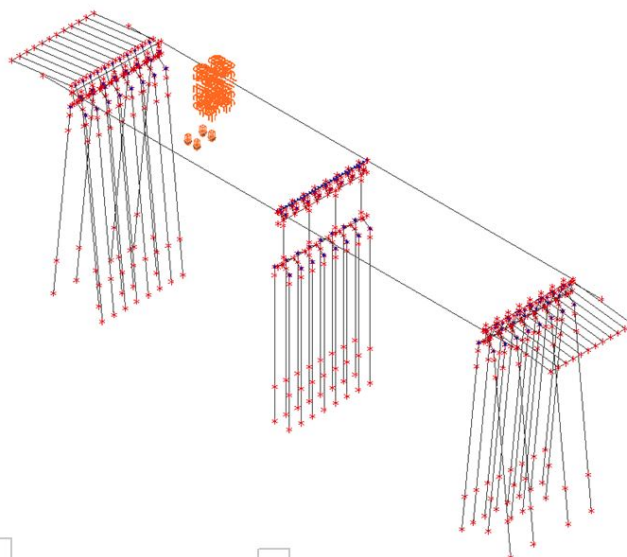


8.23. Load cases - LC15c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15c	LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

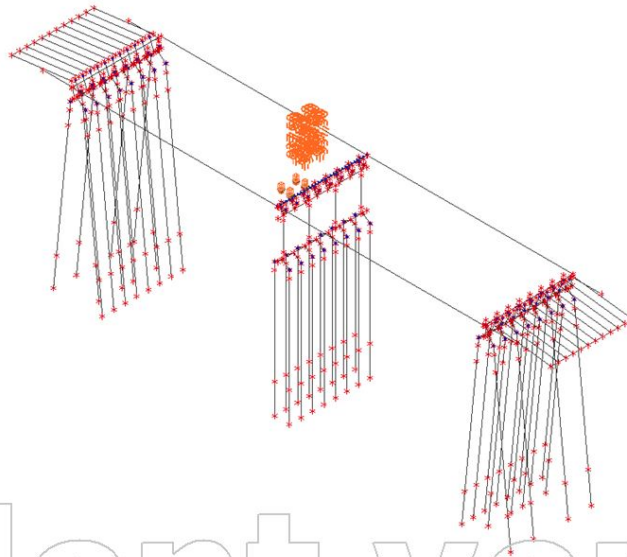
**8.24. Load cases - LC15d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15d	LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

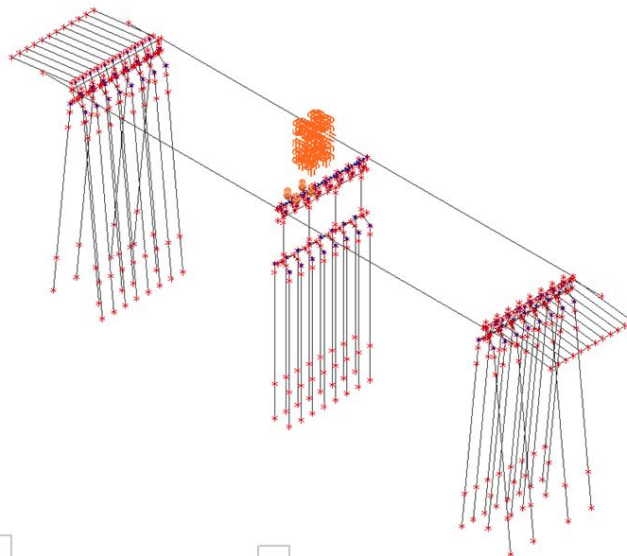


8.25. Load cases - LC15e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15e	LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

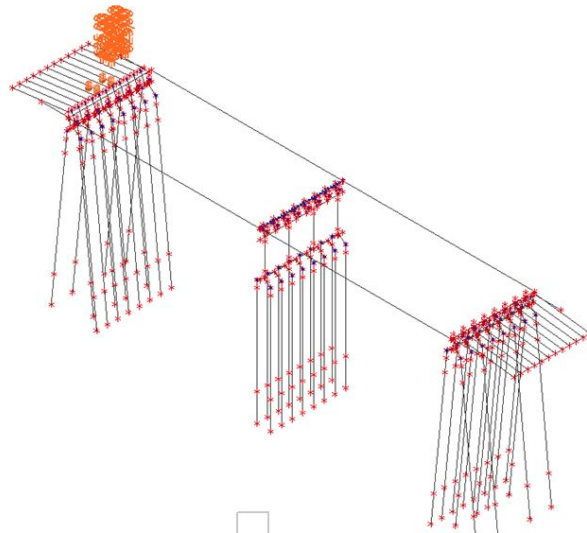
**8.26. Load cases - LC15f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC15f	LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

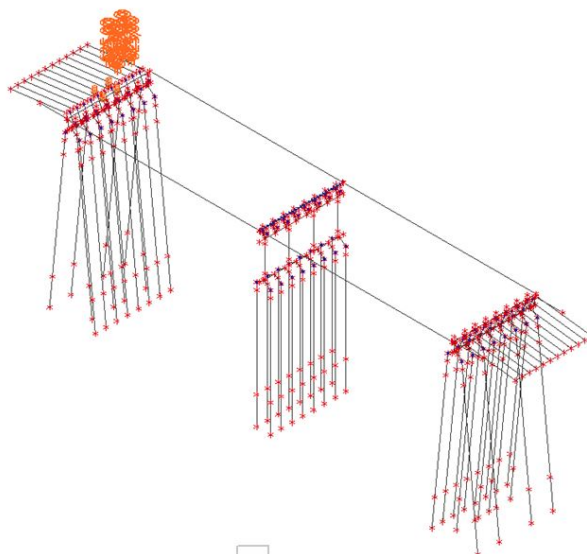


8.27. Load cases - LC16a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16a	LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

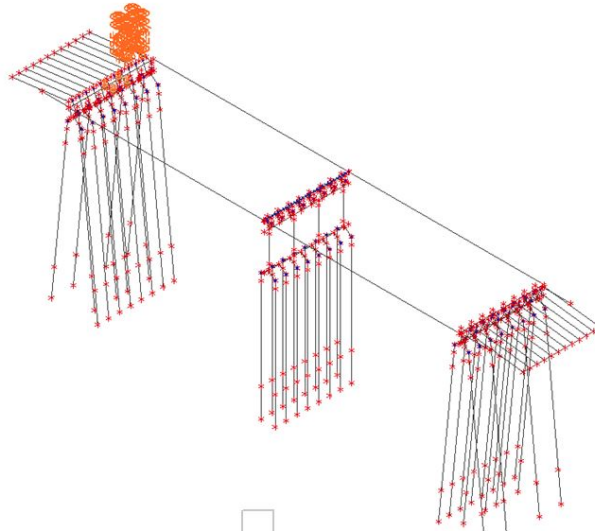
**8.28. Load cases - LC16b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16b	LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

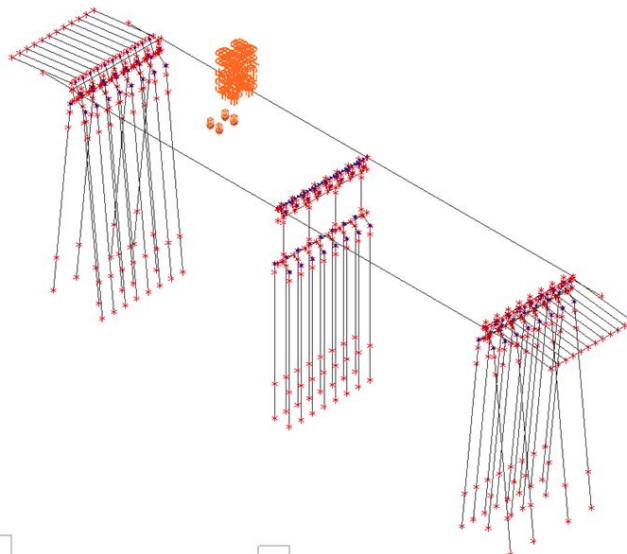


8.29. Load cases - LC16c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16c	LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

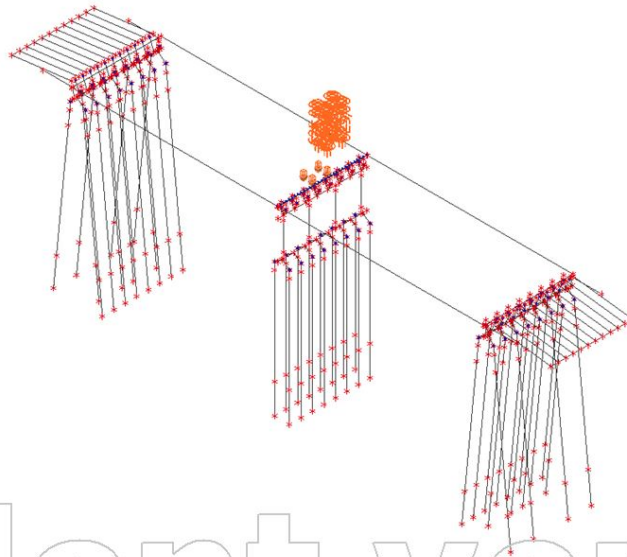
**8.30. Load cases - LC16d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16d	LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

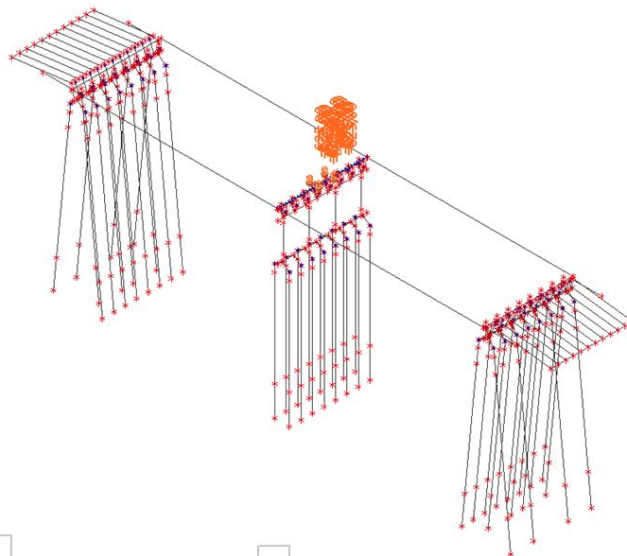


8.31. Load cases - LC16e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16e	LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

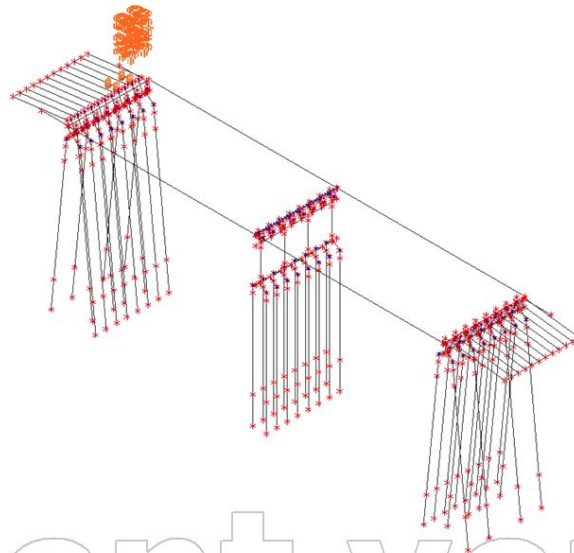
**8.32. Load cases - LC16f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC16f	LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

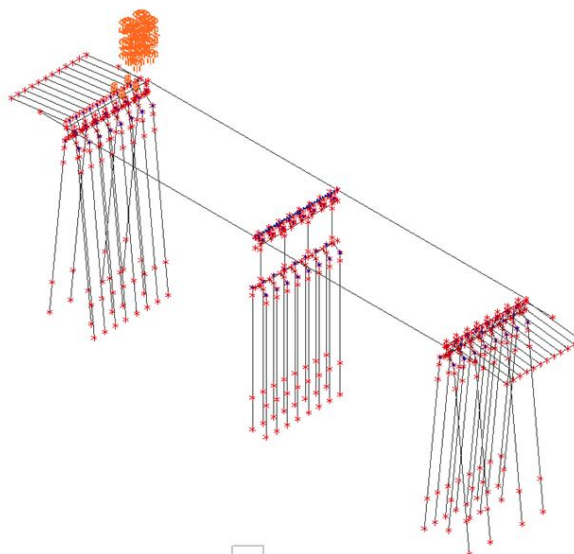


8.33. Load cases - LC17a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17a	LM1 - edge - TS - Lane 3 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

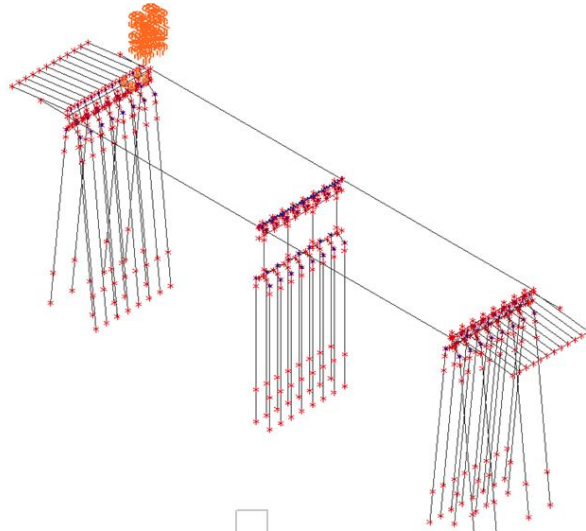
**8.34. Load cases - LC17b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17b	LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

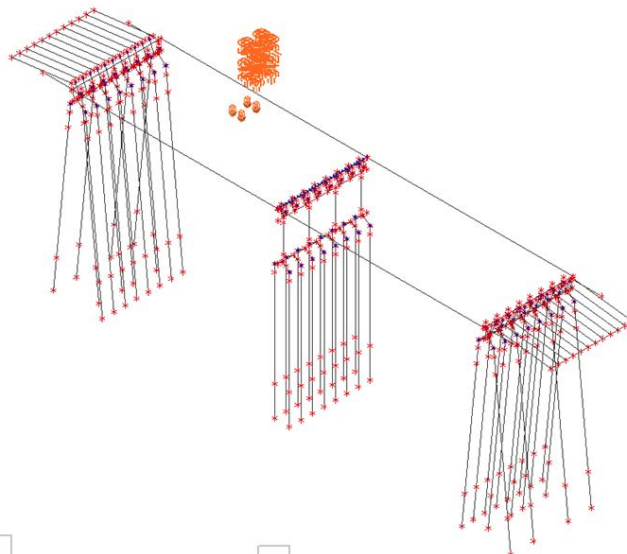


8.35. Load cases - LC17c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17c	LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

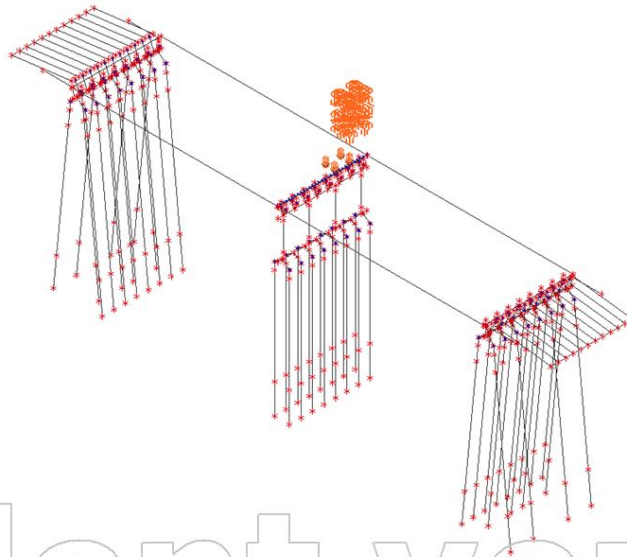
**8.36. Load cases - LC17d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17d	LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

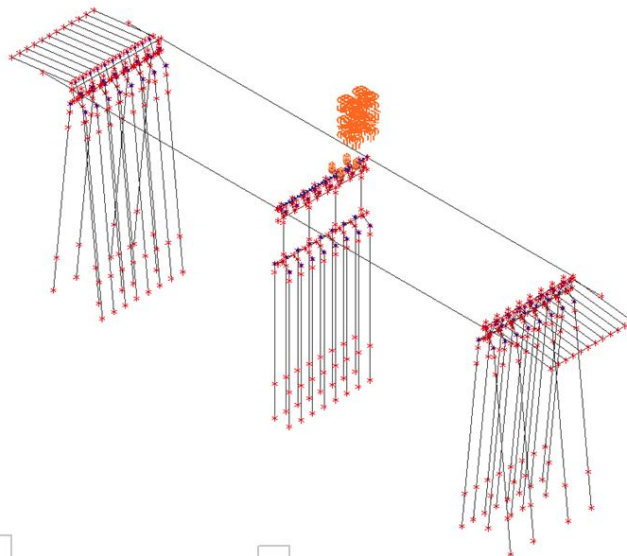


8.37. Load cases - LC17e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17e	LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

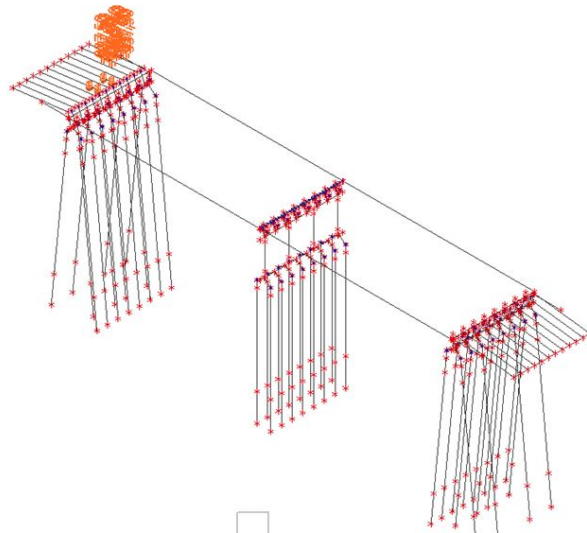
**8.38. Load cases - LC17f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC17f	LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

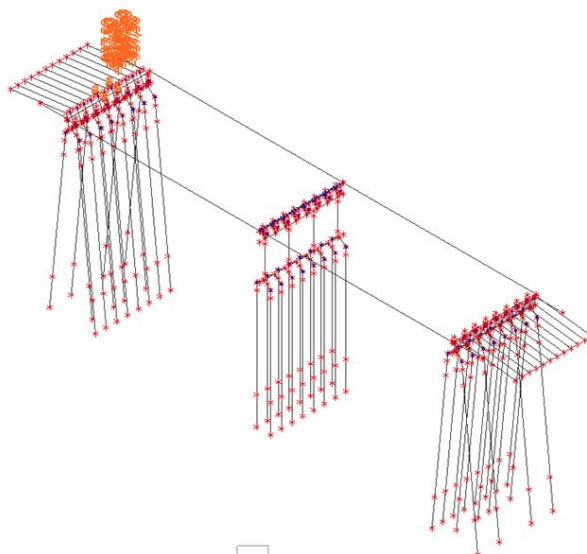


8.39. Load cases - LC18a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18a	LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

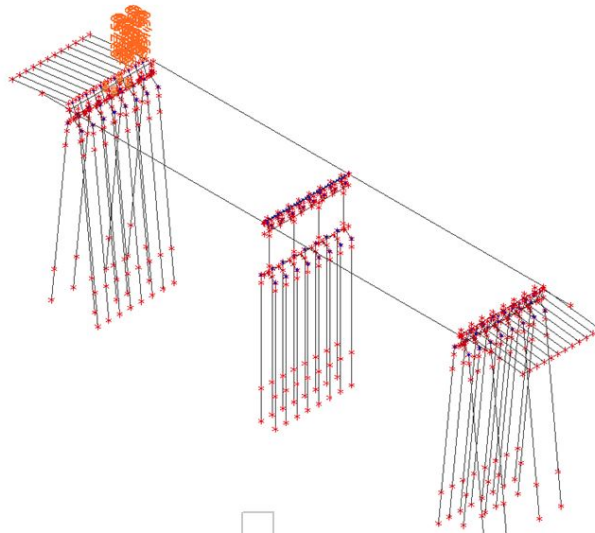
**8.40. Load cases - LC18b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18b	LM1 - center - TS - Lane 1 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

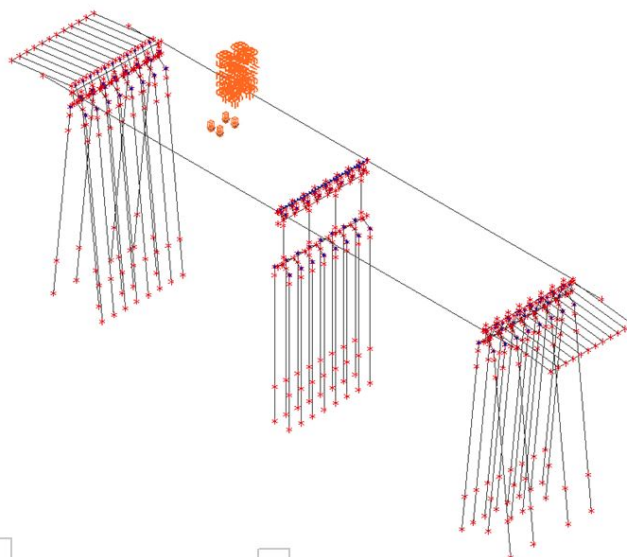


8.41. Load cases - LC18c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18c	LM1 - center - TS - Lane 1 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

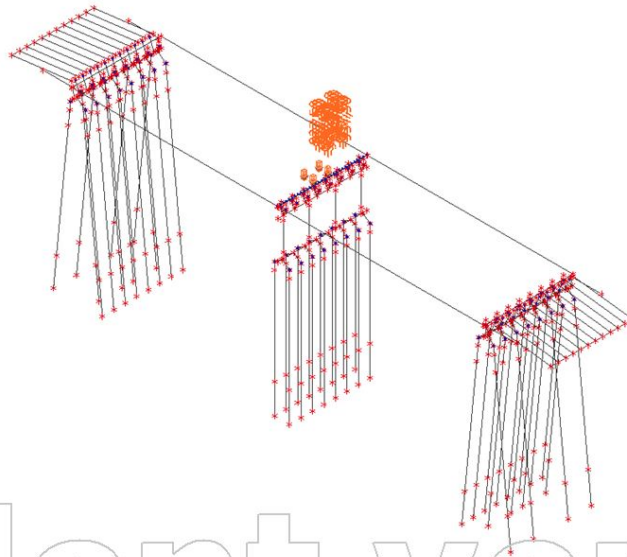
**8.42. Load cases - LC18d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18d	LM1 - center - TS - Lane 1 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

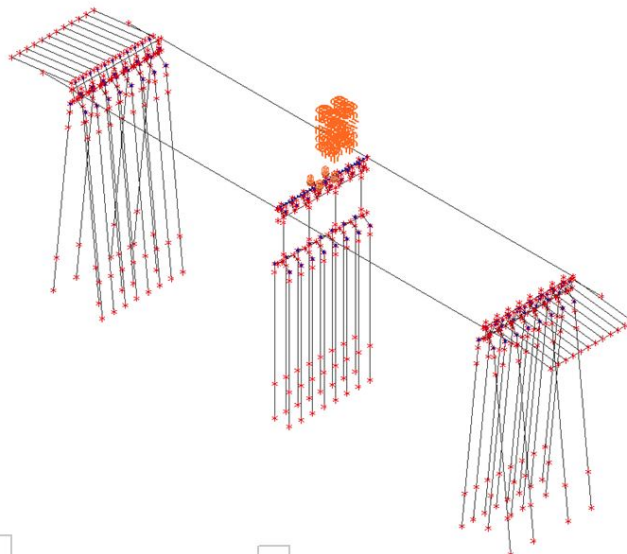


8.43. Load cases - LC18e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18e	LM1 - center - TS - Lane 1 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			

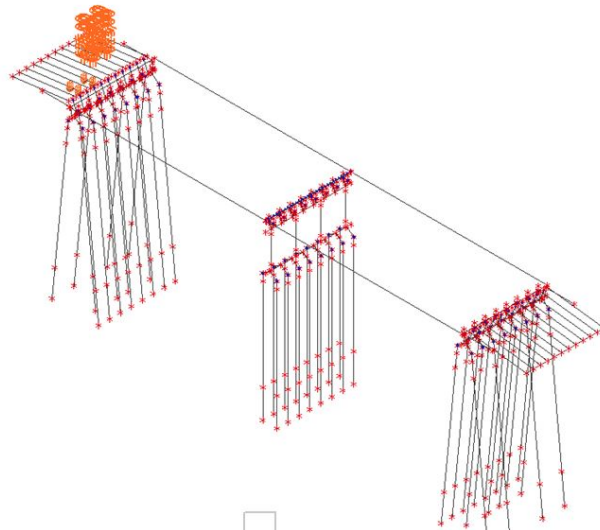
**8.44. Load cases - LC18f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC18f	LM1 - center - TS - Lane 1 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 1	Short	None
	Standard	Static			



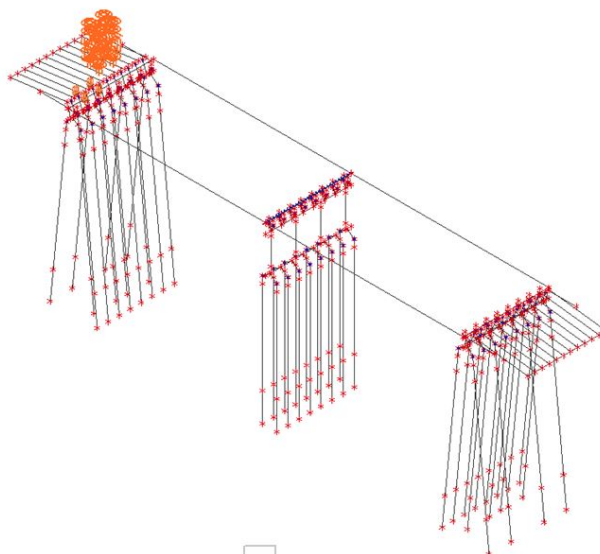
8.45. Load cases - LC19a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19a	LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			



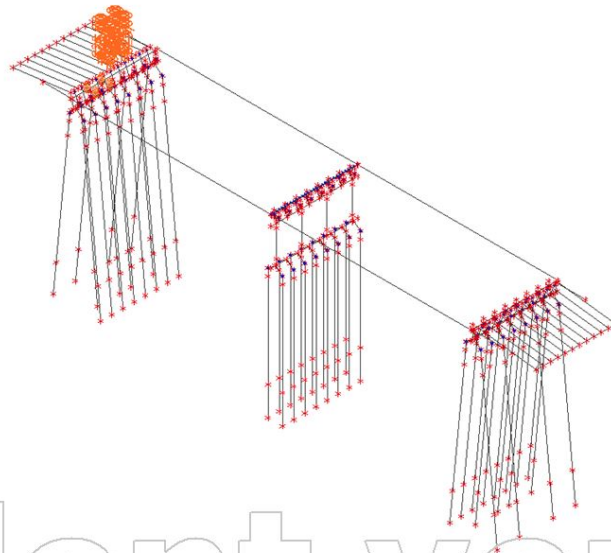
8.46. Load cases - LC19b

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19b	LM1 - center - TS - Lane 2 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			



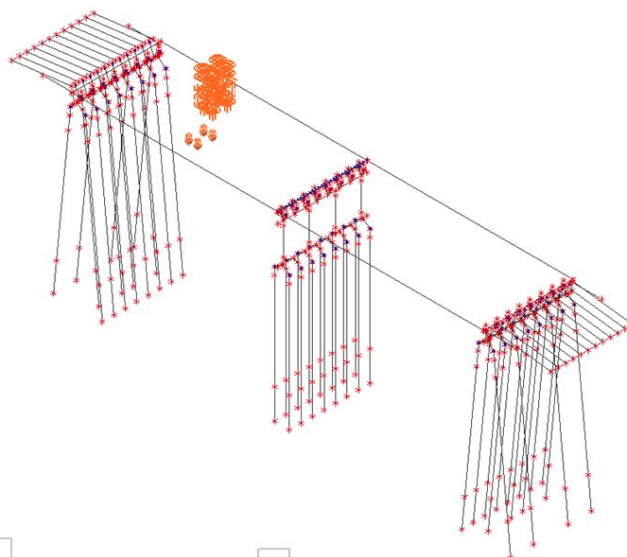
8.47. Load cases - LC19c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19c	LM1 - center - TS - Lane 2 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			



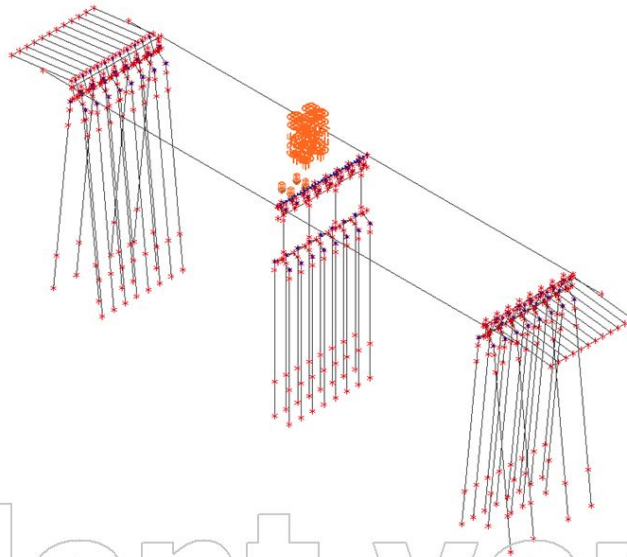
8.48. Load cases - LC19d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19d	LM1 - center - TS - Lane 2 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

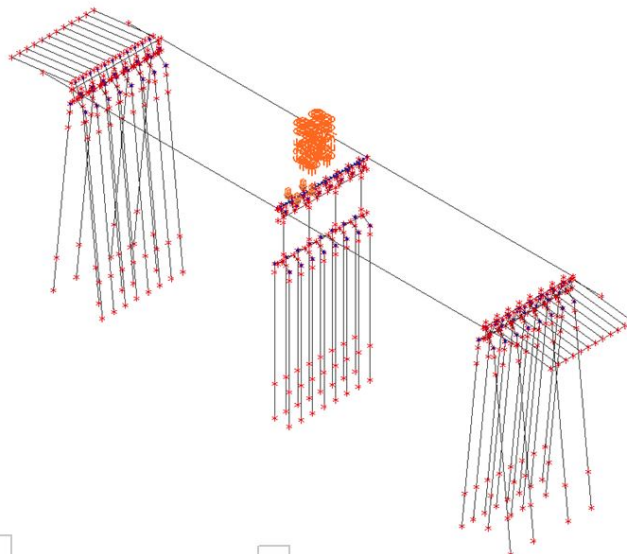


8.49. Load cases - LC19e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19e	LM1 - center - TS - Lane 2 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

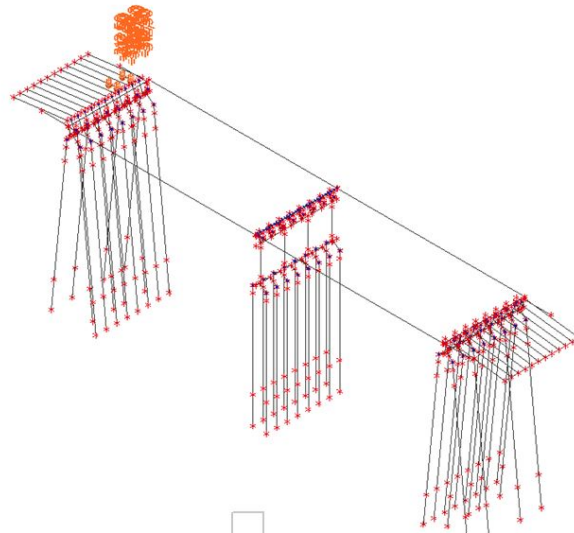
**8.50. Load cases - LC19f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC19f	LM1 - center - TS - Lane 2 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 2	Short	None
	Standard	Static			

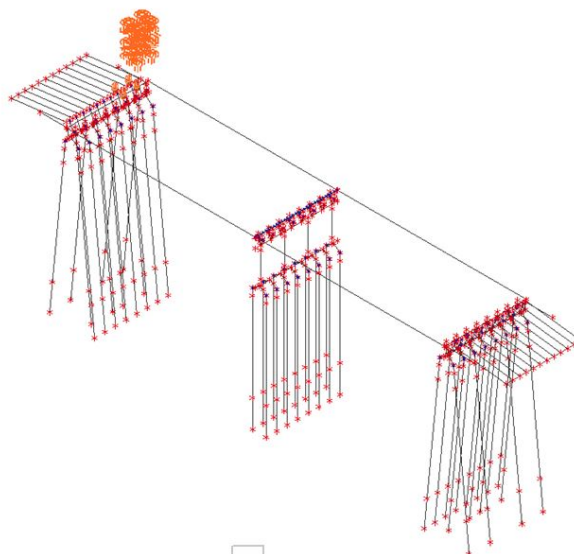


8.51. Load cases - LC20a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20a	LM1 - center - TS - Lane 3 - Pos. 1 (T.slab)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

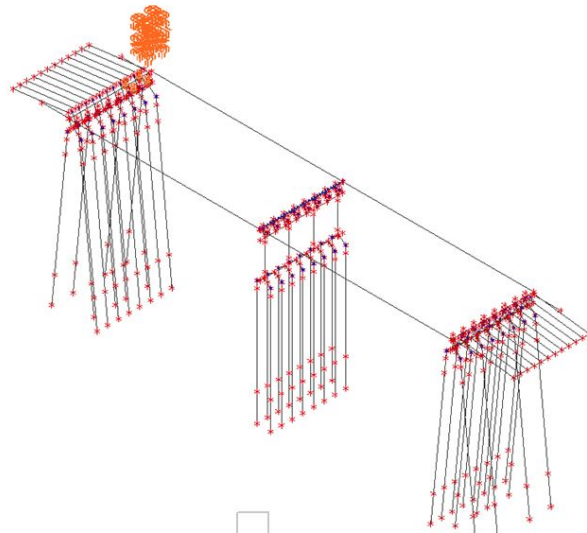
**8.52. Load cases - LC20b**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20b	LM1 - center - TS - Lane 3 - Pos. 2 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			



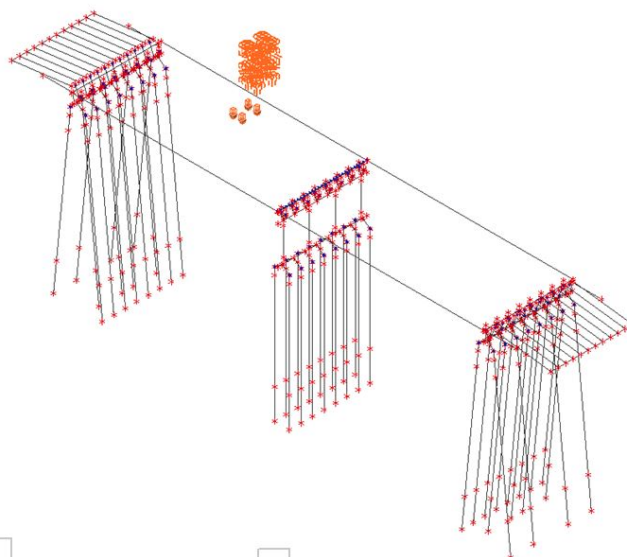
8.53. Load cases - LC20c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20c	LM1 - center - TS - Lane 3 - Pos. 3 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			



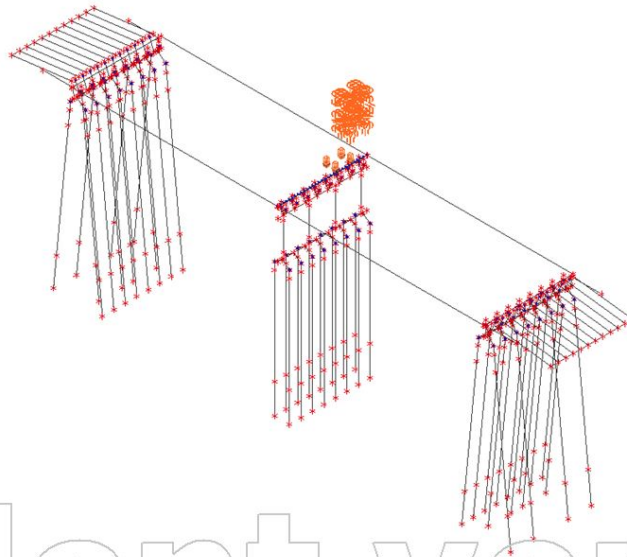
8.54. Load cases - LC20d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20d	LM1 - center - TS - Lane 3 - Pos. 4 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			



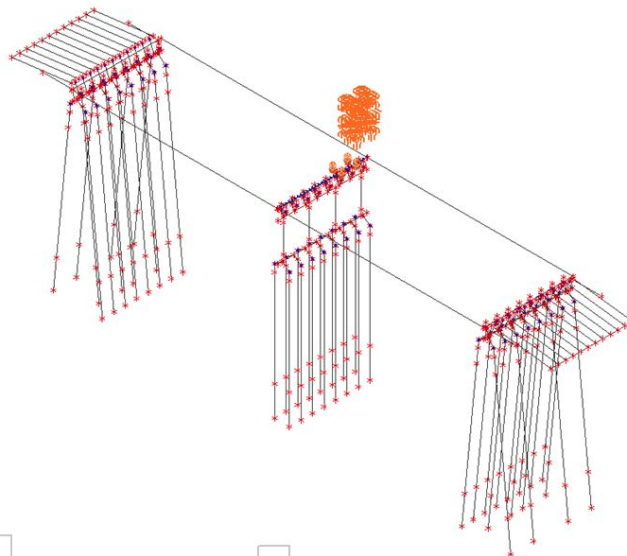
8.55. Load cases - LC20e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20e	LM1 - center - TS - Lane 3 - Pos. 5 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			



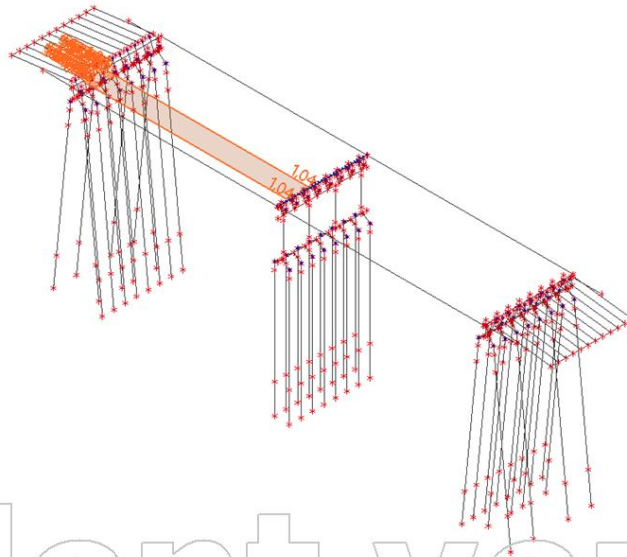
8.56. Load cases - LC20f

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC20f	LM1 - center - TS - Lane 3 - Pos. 6 (deck)	Variable	LM1 - gr1a - TS - Lane 3	Short	None
	Standard	Static			

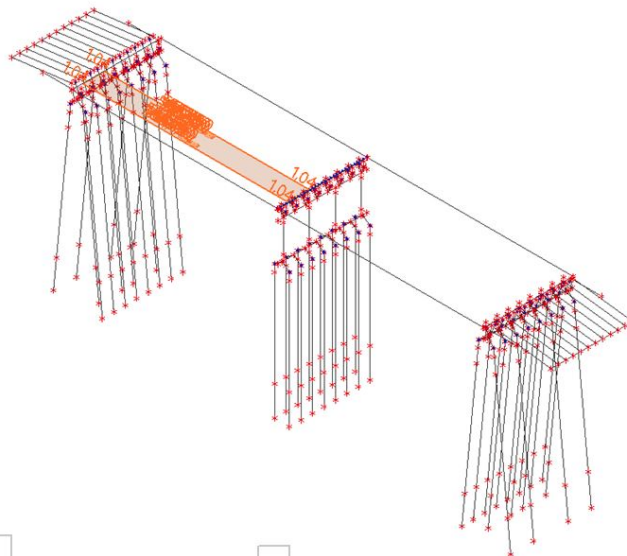


8.57. Load cases - LC21c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC21c	Braking force - edge - UDL+TS - Pos. 3 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			

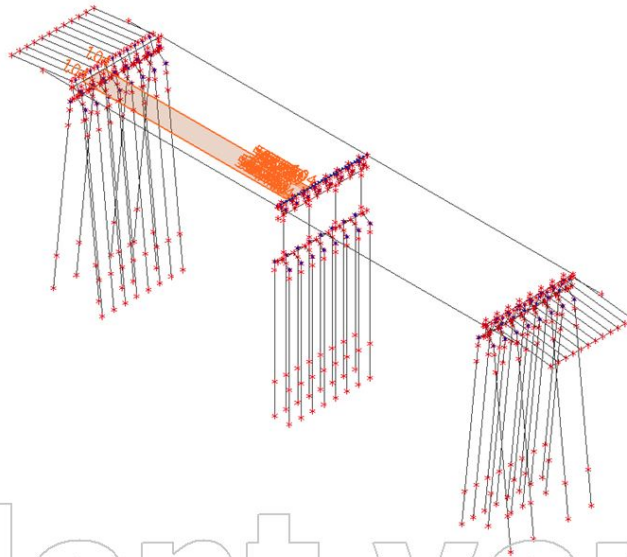
**8.58. Load cases - LC21d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC21d	Braking force - edge - UDL+TS - Pos. 4 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



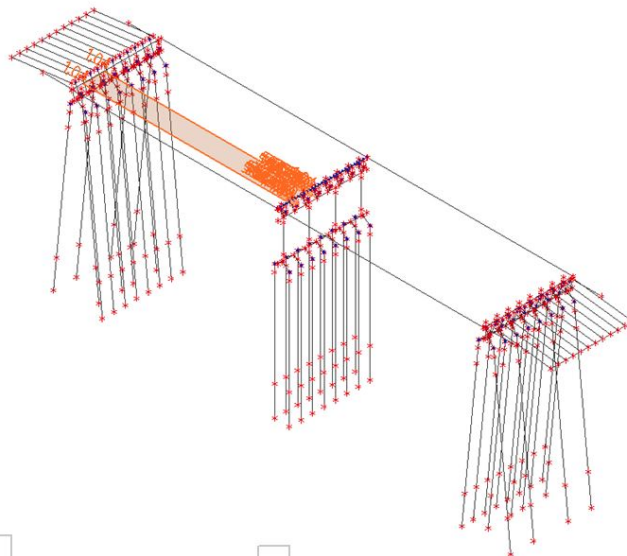
8.59. Load cases - LC21e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC21e	Braking force - edge - UDL+TS - Pos. 5 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



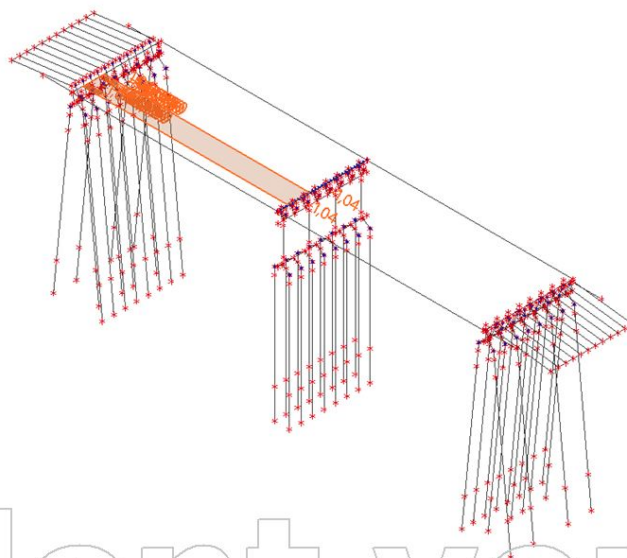
8.60. Load cases - LC21f

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC21f	Braking force - edge - UDL+TS - Pos. 6 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



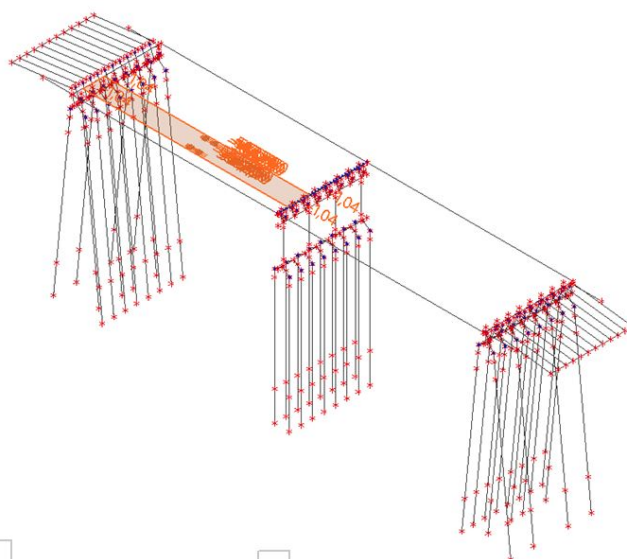
8.61. Load cases - LC22c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC22c	Accelerating force - edge - UDL+TS - Pos. 3 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



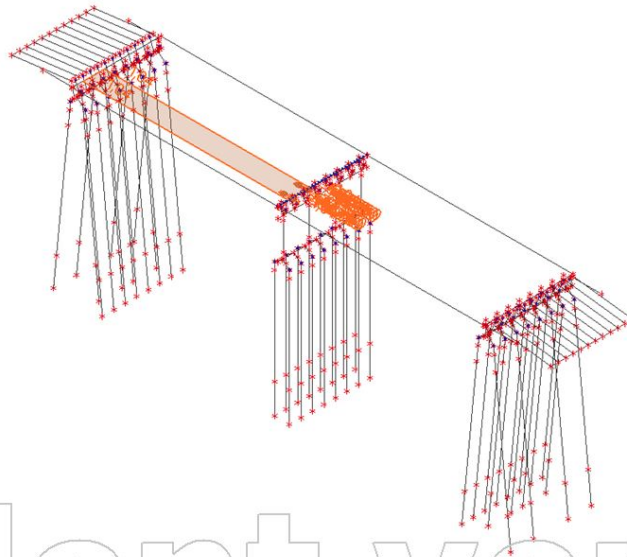
8.62. Load cases - LC22d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC22d	Accelerating force - edge - UDL+TS - Pos. 4 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			

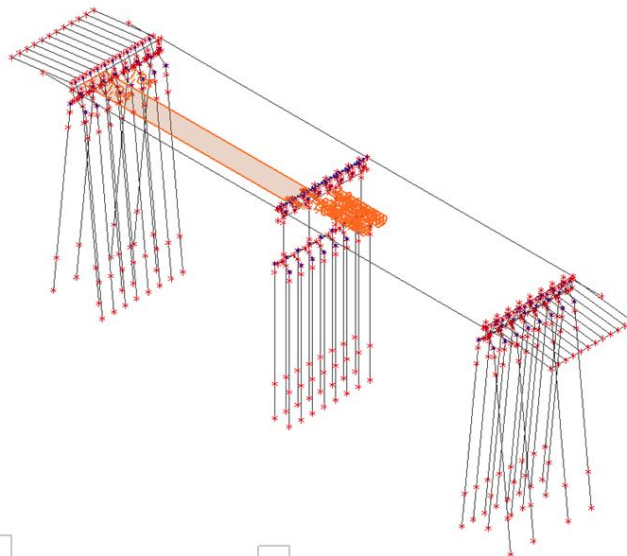


8.63. Load cases - LC22e

Name	Description	Action type	Load group	Duration	Master load case
Spec		Load type			
LC22e	Accelerating force - edge - UDL+TS - Pos. 5 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			

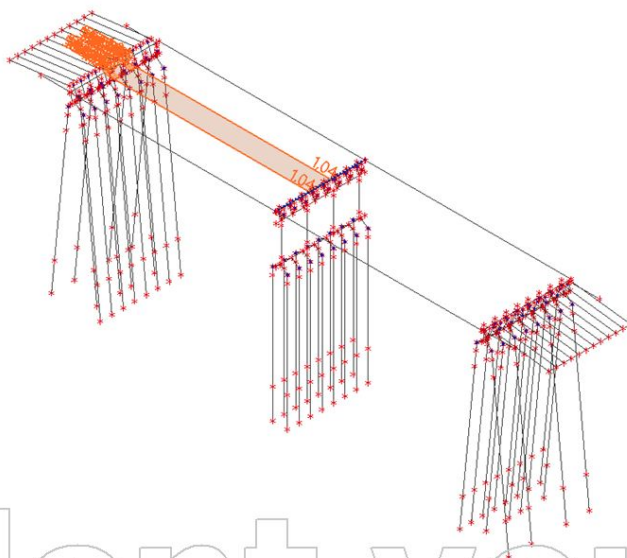
**8.64. Load cases - LC22f**

Name	Description	Action type	Load group	Duration	Master load case
Spec		Load type			
LC22f	Accelerating force - edge - UDL+TS - Pos. 6 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



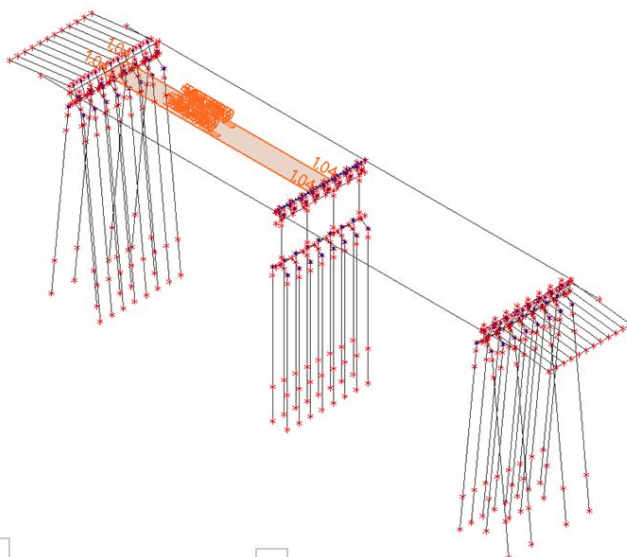
8.65. Load cases - LC23c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC23c	Braking force - center - UDL+TS - Pos. 3 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



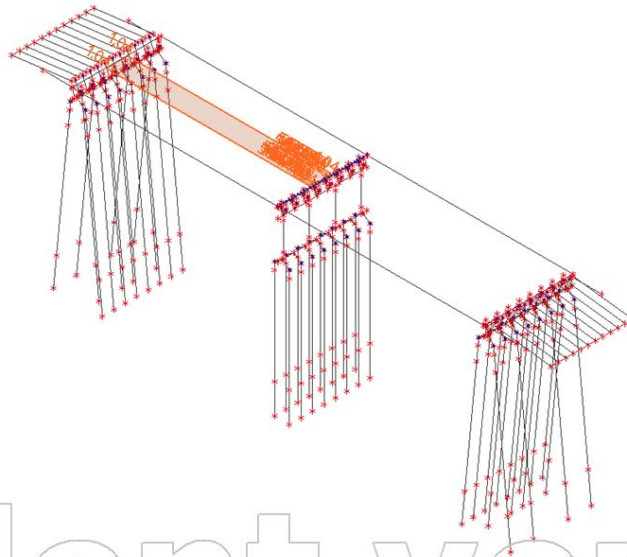
8.66. Load cases - LC23d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC23d	Braking force - center - UDL+TS - Pos. 4 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



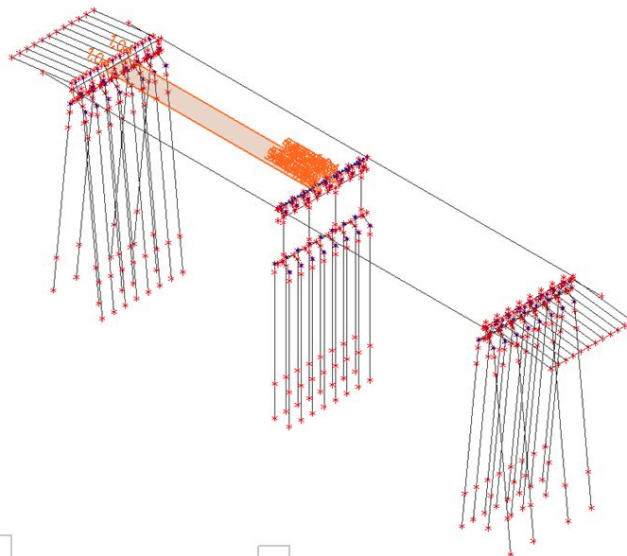
8.67. Load cases - LC23e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC23e	Braking force - center - UDL+TS - Pos. 5 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



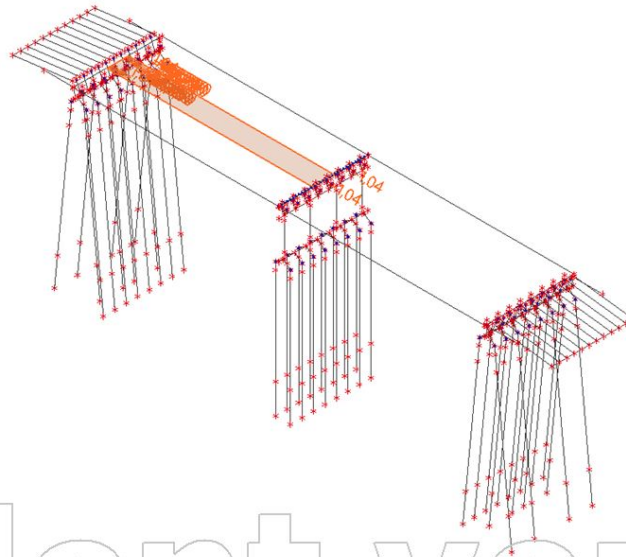
8.68. Load cases - LC23f

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC23f	Braking force - center - UDL+TS - Pos. 6 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



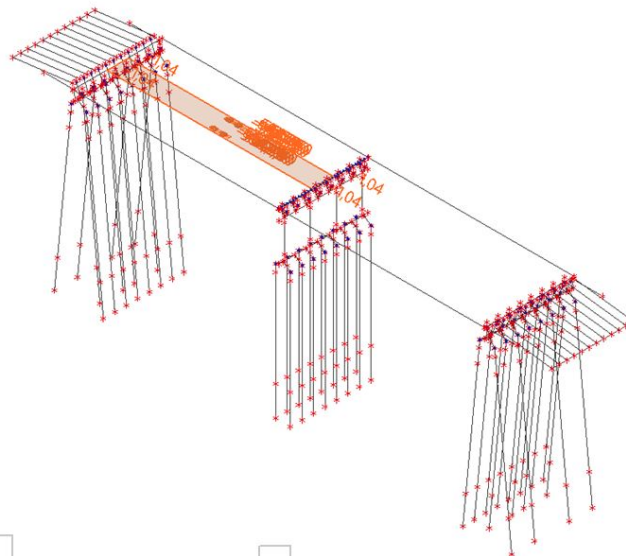
8.69. Load cases - LC24c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC24c	Accelerating force - center - UDL+TS - Pos. 3 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



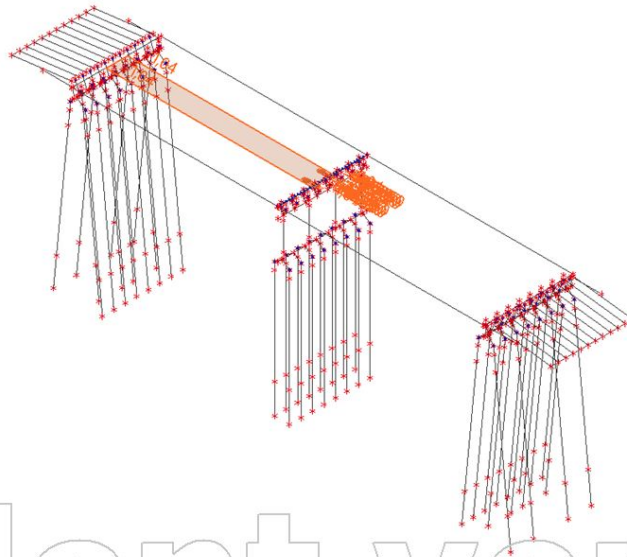
8.70. Load cases - LC24d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC24d	Accelerating force - center - UDL+TS - Pos. 4 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			

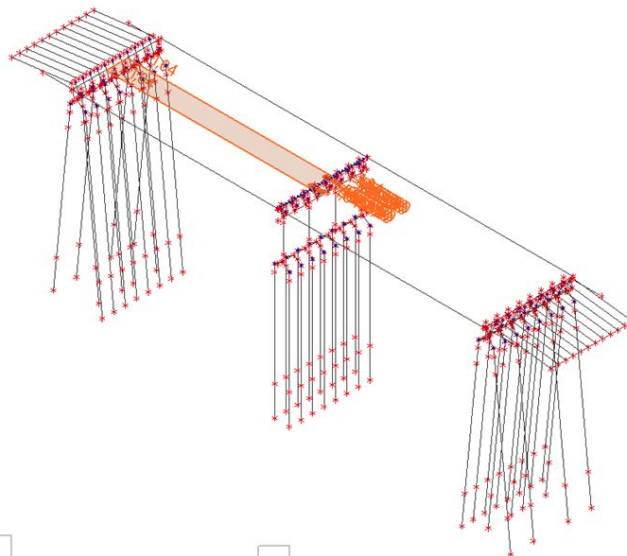


8.71. Load cases - LC24e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC24e	Accelerating force - center - UDL+TS - Pos. 5 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			

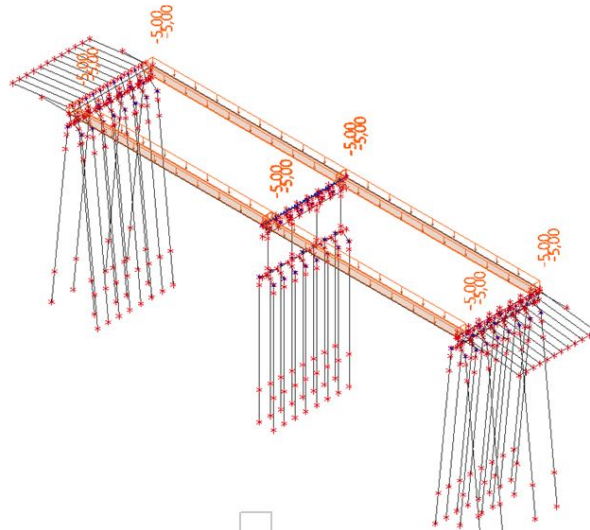
**8.72. Load cases - LC24f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC24f	Accelerating force - center - UDL+TS - Pos. 6 (deck)	Variable	Horizontal forces (gr2)	Short	None
	Standard	Static			



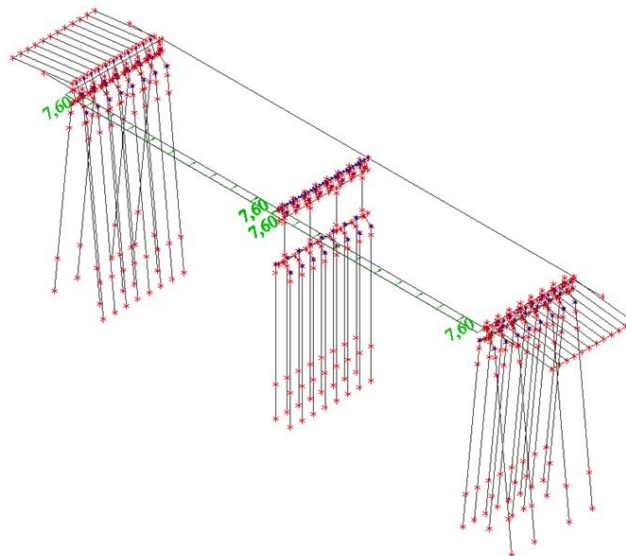
8.73. Load cases - LC31

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC31	Pedestrians and/or cyclists	Variable	Pedestr. + cycle track (gr1a - UDL)	Short	None
	Standard	Static			



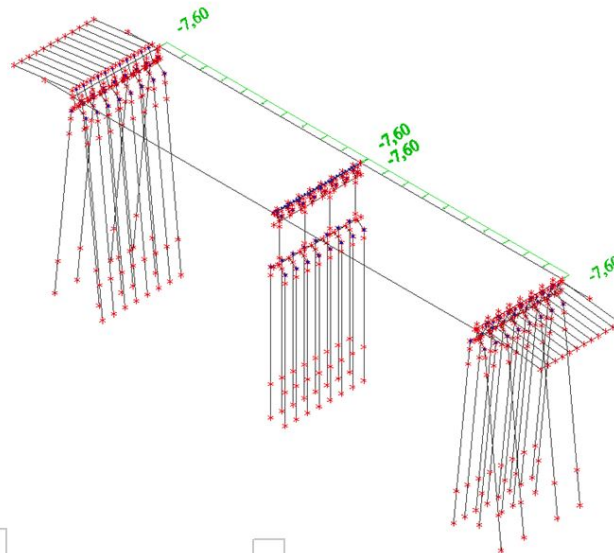
8.74. Load cases - LC41a

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41a	Wind load +x (dominant)	Variable	Wind - FWk	Short	None
	Standard	Static			



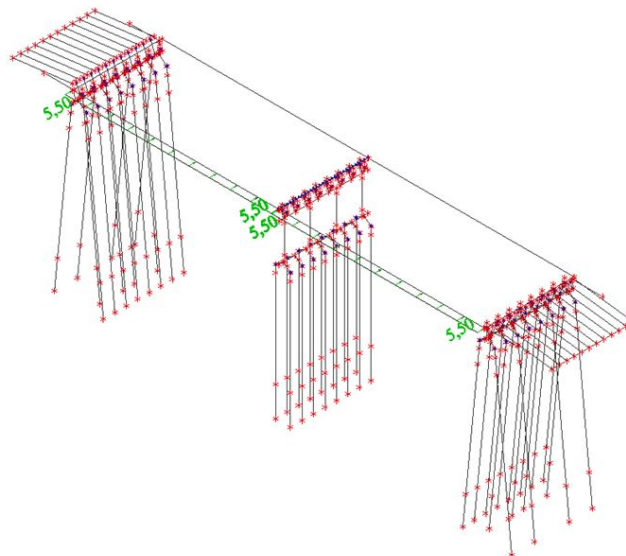
8.75. Load cases - LC41b

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41b	Wind load -x (dominant)	Variable	Wind - FWk	Short	None
	Standard	Static			



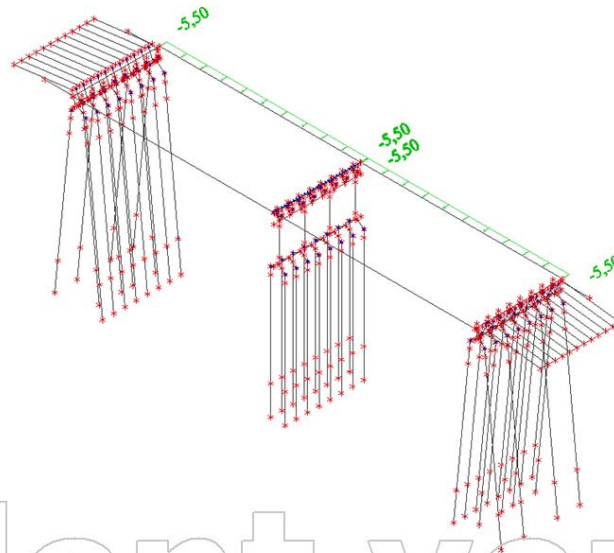
8.76. Load cases - LC41c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41c	Wind load +x (combined with traffic)	Variable	Wind - F*W	Short	None
	Standard	Static			



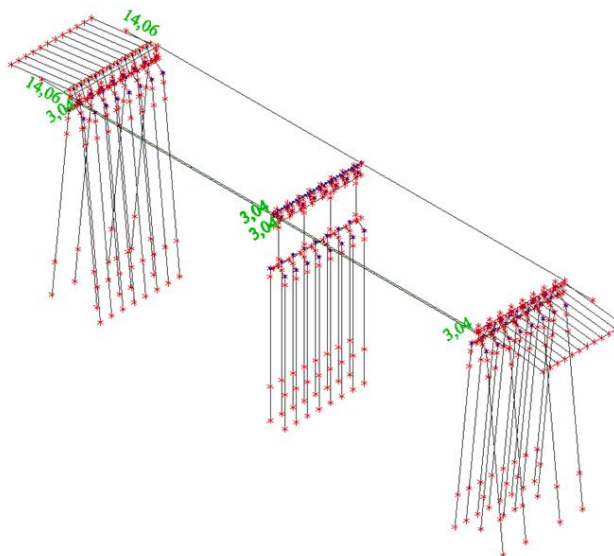
8.77. Load cases - LC41d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41d	Wind load -x (combined with traffic)	Variable	Wind - F*W	Short	None
	Standard	Static			



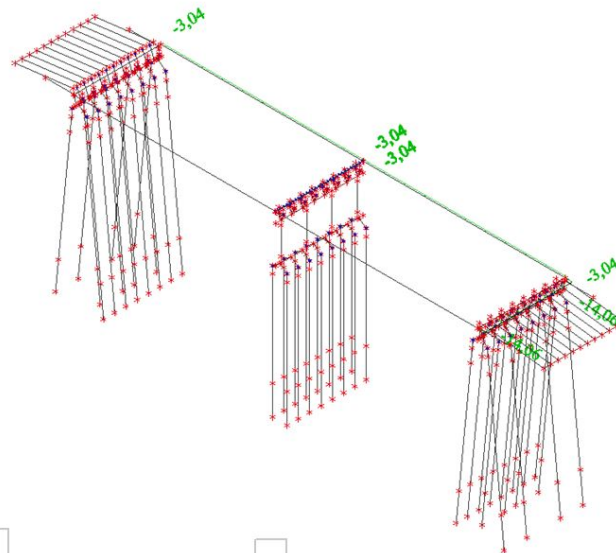
8.78. Load cases - LC41e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41e	Wind load +y (dominant)	Variable	Wind - FWk	Short	None
	Standard	Static			



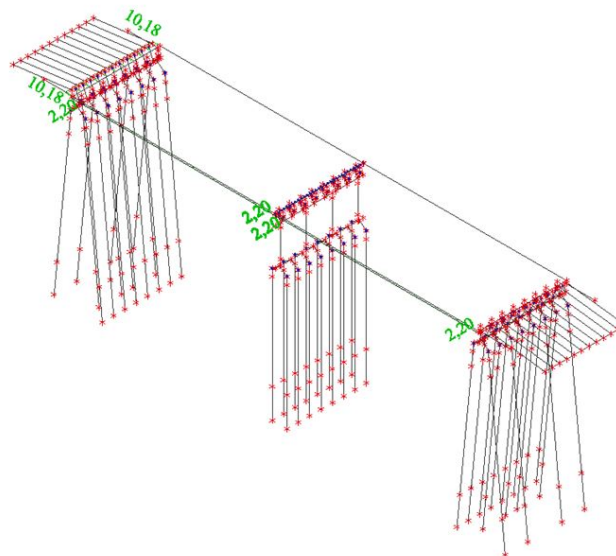
8.79. Load cases - LC41f

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41f	Wind load -y (dominant)	Variable	Wind - FWk	Short	None
	Standard	Static			



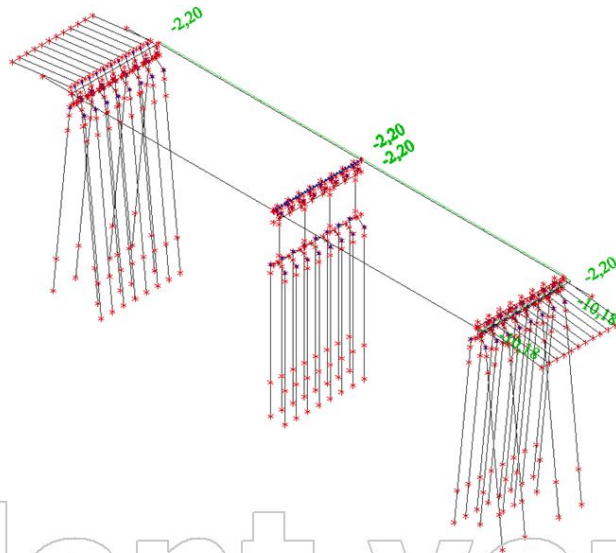
8.80. Load cases - LC41g

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41g	Wind load +y (combined with traffic)	Variable	Wind - F*W	Short	None
	Standard	Static			

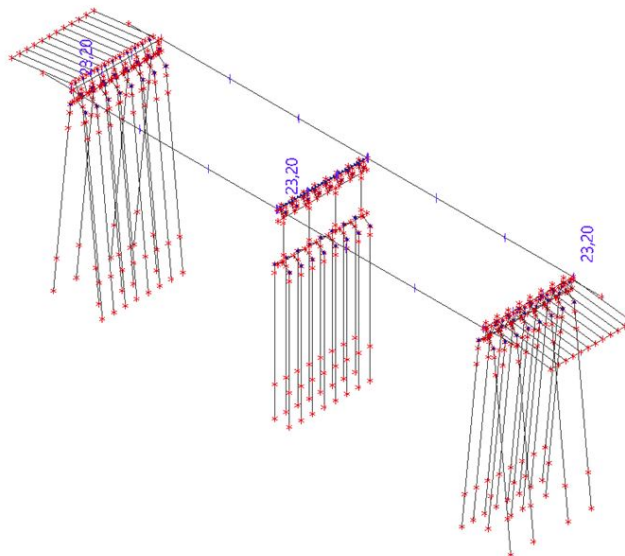


8.81. Load cases - LC41h

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC41h	Wind load -y (combined with traffic)	Variable	Wind - F*W	Short	None
	Standard	Static			

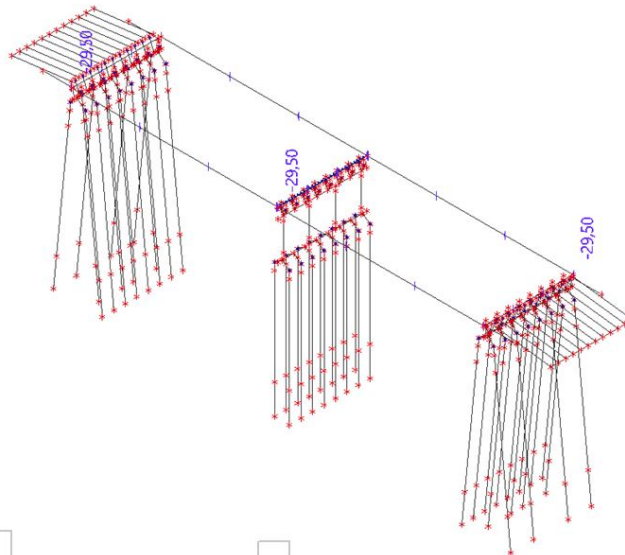
**8.82. Load cases - BG42a**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
BG42a	Thermal load - Yearly +	Variable	Thermal loads (yearly)	Short	None
	Standard	Static			

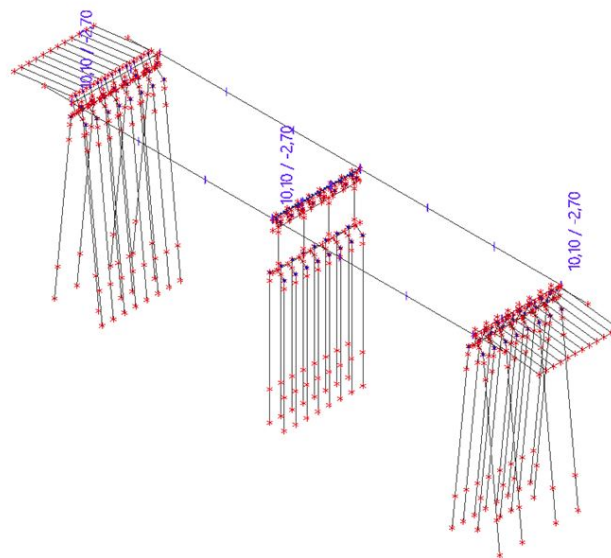


8.83. Load cases - BG42b

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
BG42b	Thermal load - Yearly	Variable	Thermal loads (yearly)	Short	None
	Standard	Static			

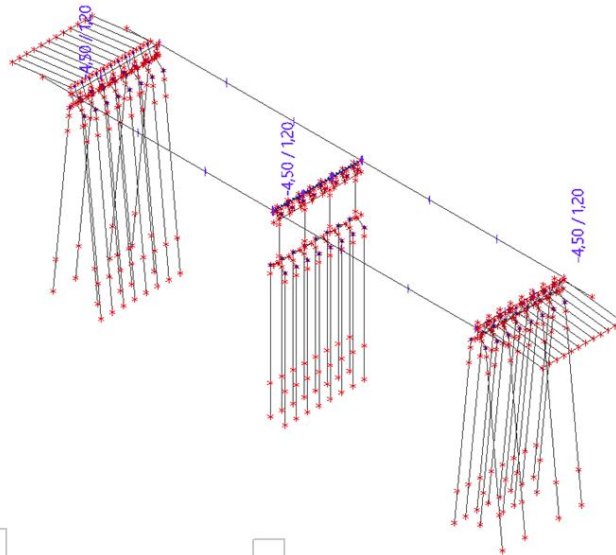
**8.84. Load cases - BG42c**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
BG42c	Thermal load - Daily	Variable	Thermal loads (daily)	Short	None
	Standard	Static			

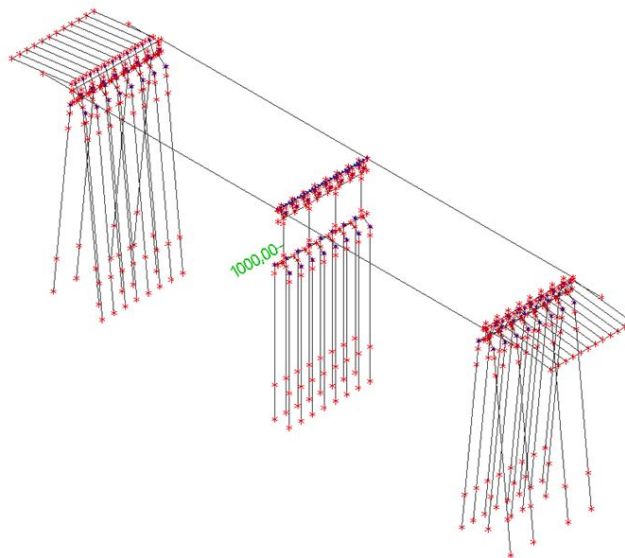


8.85. Load cases - BG42d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
BG42d	Thermal load - Daily -	Variable	Thermal loads (daily)	Short	None
	Standard	Static			

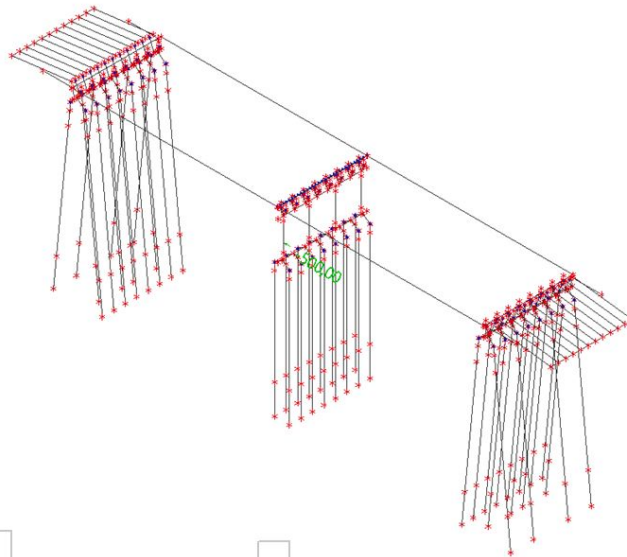
**8.86. Load cases - LC51a**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51a	Collision under bridge - Pier 1 - par.	Variable	Accidental loads	Short	None
	Standard	Static			

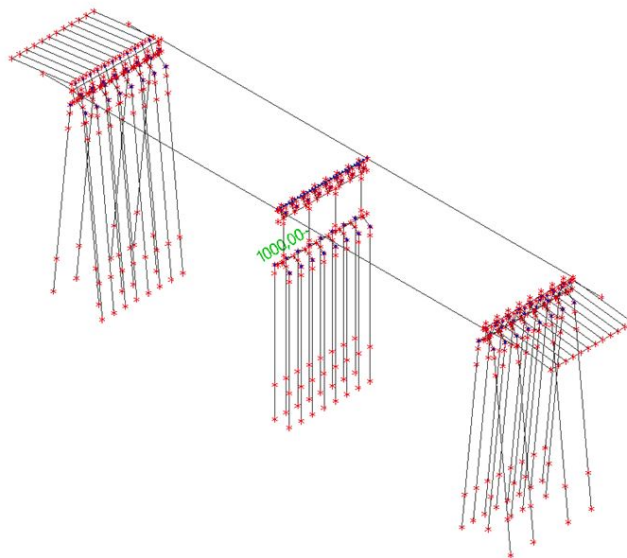


8.87. Load cases - LC51b

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51b	Collision under bridge - Pier 1 - perp. Standard	Variable Static	Accidental loads	Short	None

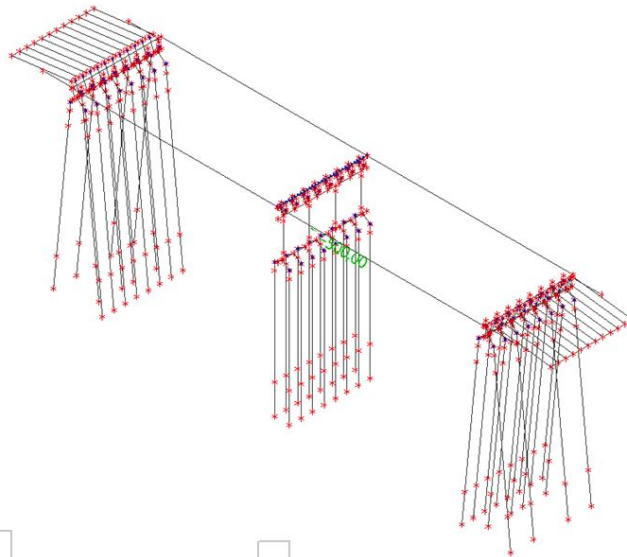
**8.88. Load cases - LC51c**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51c	Collision under bridge - Pier 2 - par. Standard	Variable Static	Accidental loads	Short	None

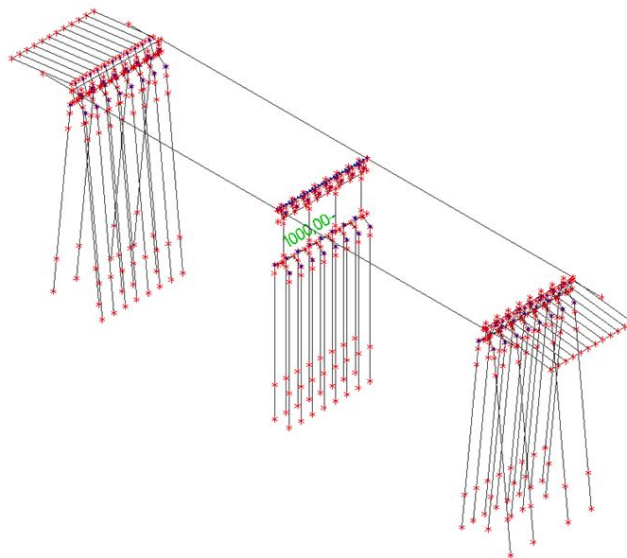


8.89. Load cases - LC51d

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51d	Collision under bridge - Pier 2 - perp. Standard	Variable Static	Accidental loads	Short	None

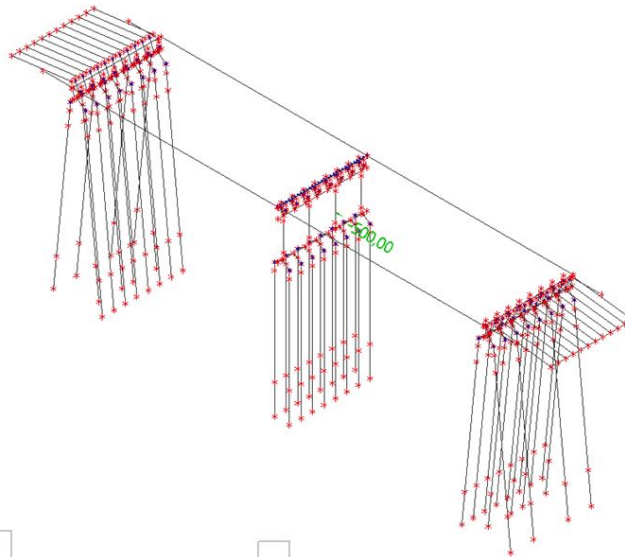
**8.90. Load cases - LC51e**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51e	Collision under bridge - Pier 3 - par. Standard	Variable Static	Accidental loads	Short	None

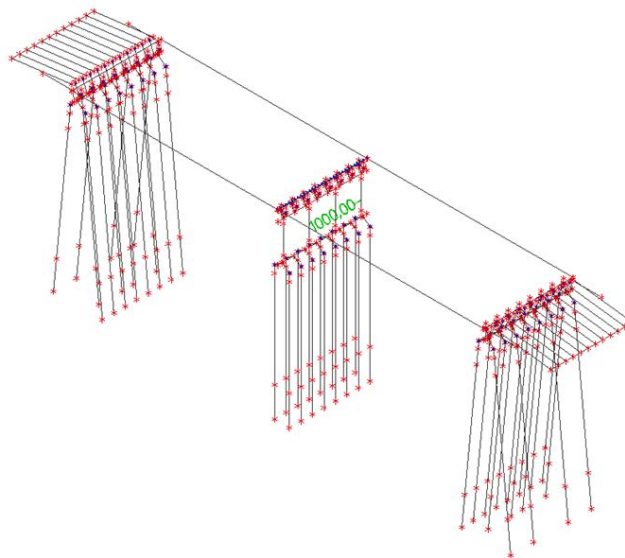


8.91. Load cases - LC51f

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51f	Collision under bridge - Pier 3 - perp. Standard	Variable Static	Accidental loads	Short	None

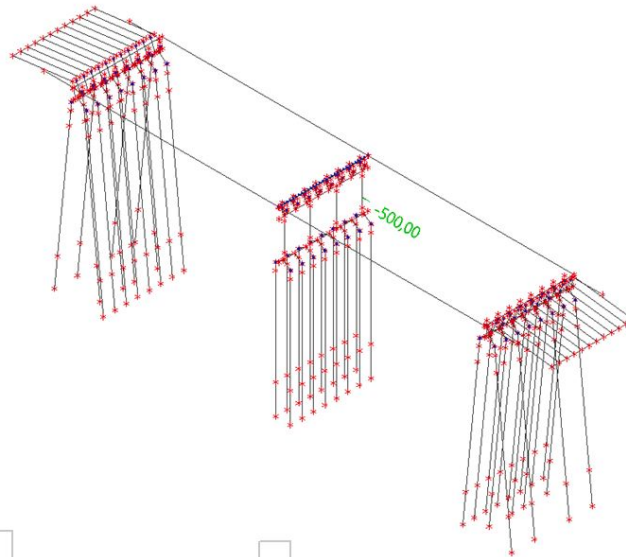
**8.92. Load cases - LC51g**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51g	Collision under bridge - Pier 4 - par. Standard	Variable Static	Accidental loads	Short	None

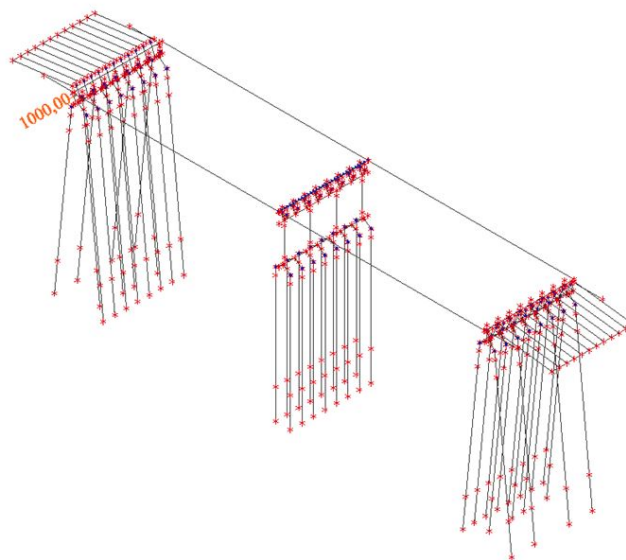


8.93. Load cases - LC51h

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC51h	Collision under bridge - Pier 4 - perp. Standard	Variable Static	Accidental loads	Short	None

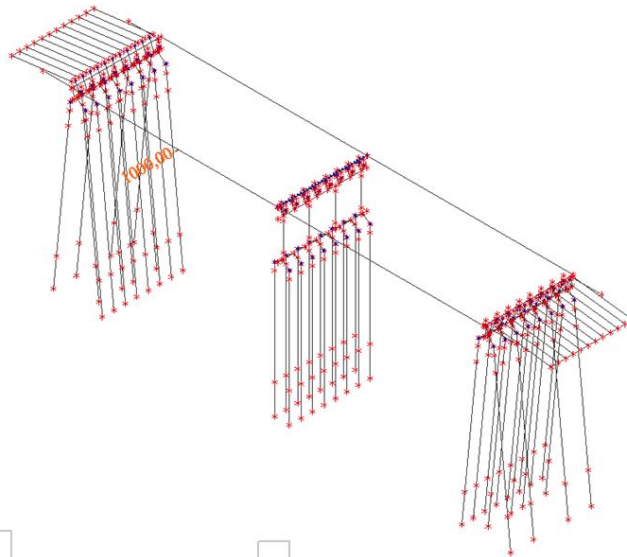
**8.94. Load cases - LC52a**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC52a	Collision with edge of deck - Pos. 11 Standard	Variable Static	Accidental loads	Short	None

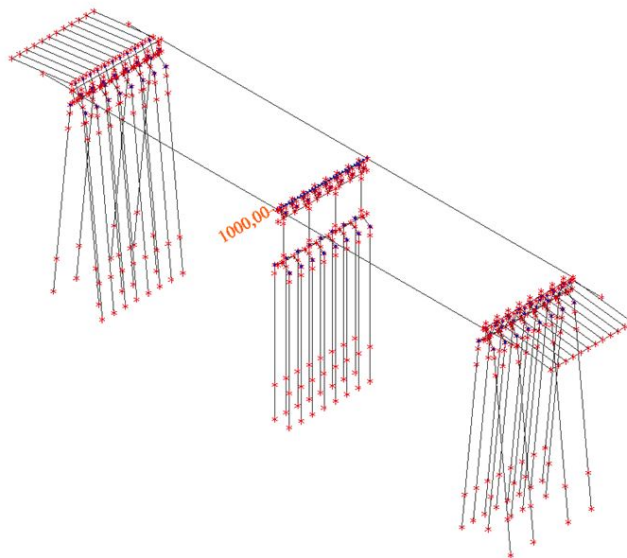


8.95. Load cases - LC52b

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC52b	Collision with edge of deck - Pos. 22	Variable	Accidental loads	Short	None
	Standard	Static			

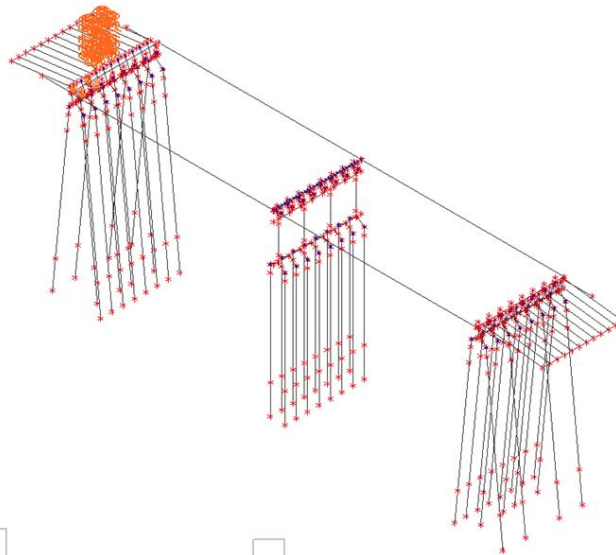
**8.96. Load cases - LC52c**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC52c	Collision with edge of deck - Pos. 33	Variable	Accidental loads	Short	None
	Standard	Static			

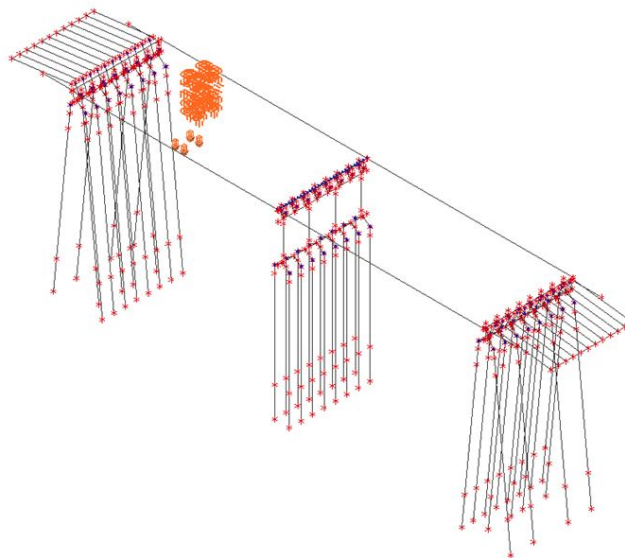


8.97. Load cases - LC53c

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC53c	Accident on bridge - Pos. 3	Variable	Accidental loads	Short	None
	Standard	Static			

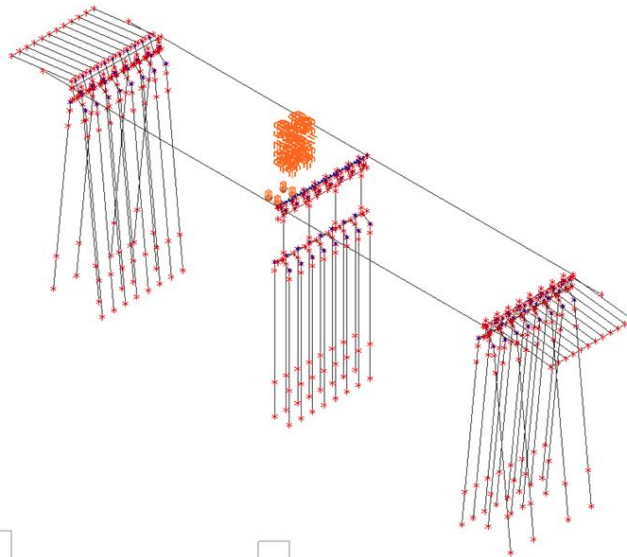
**8.98. Load cases - LC53d**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC53d	Accident on bridge - Pos. 4	Variable	Accidental loads	Short	None
	Standard	Static			

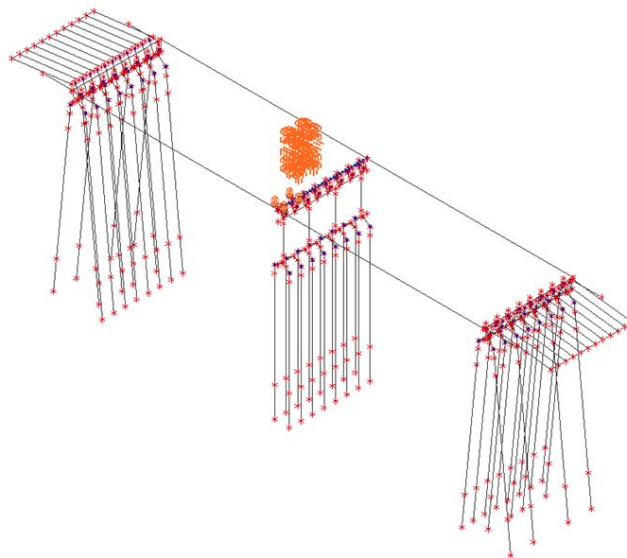


8.99. Load cases - LC53e

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC53e	Accident on bridge - Pos. 5	Variable	Accidental loads	Short	None
	Standard	Static			

**8.100. Load cases - LC53f**

Name	Description	Action type	Load group	Duration	Master load case
	Spec	Load type			
LC53f	Accident on bridge - Pos. 6	Variable	Accidental loads	Short	None
	Standard	Static			



9. Load groups

Name	Load	Relation	Type
Permanent	Permanent		
LM1 - deck - gr1a - UDL	Variable	Standard	Traffic - gr1a - UDL
LM1 - T.slab - gr1a - UDL	Variable	Standard	Traffic - gr1a - UDL
LM1 - gr1a - TS - Lane 1	Variable	Exclusive	Traffic - gr1a - TS
LM1 - gr1a - TS - Lane 2	Variable	Exclusive	Traffic - gr1a - TS
LM1 - gr1a - TS - Lane 3	Variable	Exclusive	Traffic - gr1a - TS
Pedestr. + cycle track (gr1a - UDL)	Variable	Standard	Traffic - gr1a - Pedestr. + cycle track
Horizontal forces (gr2)	Variable	Exclusive	Traffic - gr2 - Horizontal forces
Wind - FWk	Variable	Exclusive	Wind forces - FWk - Persistent
Wind - F*W	Variable	Exclusive	Wind forces - F*W - Design
Thermal loads (yearly)	Variable	Exclusive	Thermal actions - Tk
Thermal loads (daily)	Variable	Exclusive	Thermal actions - Tk
Accidental loads	Variable	Exclusive	Traffic - gr1a - UDL

10. Combinations

Name	Description	Type	Load cases	Coeff. [-]
ULS 1a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,20
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,20
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,20
			LC11d - LM1 - deck - edge - UDL - Remaining	1,20
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,96
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,96
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,96

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Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,96
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,96
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,96
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,96
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,96
			LC31 - Pedestrians and/or cyclists	0,48
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 1b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC12a - LM1 - deck - center - UDL - Lane 1	1,20
			LC12b - LM1 - deck - center - UDL - Lane 2	1,20
			LC12c - LM1 - deck - center - UDL - Lane 3	1,20
			LC12d - LM1 - deck - center - UDL - Remaining	1,20
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	0,96
			LC23d - Braking force - center	0,96

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Name	Description	Type	Load cases	Coeff. [-]
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,96
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,96
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	0,96
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	0,96
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	0,96
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	0,96
			LC31 - Pedestrians and/or cyclists	0,48
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 2a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,20
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,20
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,20
			LC11d - LM1 - deck - edge - UDL - Remaining	1,20
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	1,20
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	1,20
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	1,20
			LC13d - LM1 - T.slab - edge - UDL - Remaining	1,20
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	1,20
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	1,20
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC16d - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,96
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,96
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,96
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,96
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,96
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,96
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,96
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,96
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 2b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	1,20
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	1,20
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	1,20
			UDL - Lane 3	
			LC14d - LM1 - T.slab - center -	1,20
			UDL - Remaining	
			LC18a - LM1 - center - TS -	1,20
			Lane 1 - Pos. 1 (T.slab)	
			LC18b - LM1 - center - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	1,20
			Lane 2 - Pos. 1 (T.slab)	
			LC19b - LM1 - center - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	1,20
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,96
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,96
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,96
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,96
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,96
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,96
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,96
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,96
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 3a	edge	Envelope - Ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25

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Name	Description	Type	Load cases	Coeff. [-]
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,50
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,50
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,50
			LC11d - LM1 - deck - edge - UDL - Remaining	1,50
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,50
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,50
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,50
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,50
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,50
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,50
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,50
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,50
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,50
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,50
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,50
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	1,50
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	1,50
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	1,50
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	1,50
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 3b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,25

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Name	Description	Type	Load cases	Coeff. [-]
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	1,50
			LC12b - LM1 - deck - center - UDL - Lane 2	1,50
			LC12c - LM1 - deck - center - UDL - Lane 3	1,50
			LC12d - LM1 - deck - center - UDL - Remaining	1,50
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,50
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,50
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,50
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,50
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,50
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,50
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,50
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,50
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,50
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,50
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,50
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,50
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,50
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,50
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,50
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x	1,65

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Name	Description	Type	Load cases	Coeff. [-]
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 4a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,20
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,20
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,20
			LC11d - LM1 - deck - edge - UDL - Remaining	1,20
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	1,50
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	1,50
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	1,50
			LC13d - LM1 - T.slab - edge - UDL - Remaining	1,50
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	1,50
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	1,50
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC17a - LM1 - edge - TS - Lane 3 - Pos. 1 (T.slab)	1,50
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,96
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,96
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,96

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Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,96
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,96
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,96
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,96
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,96
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 4b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	1,20
			LC12b - LM1 - deck - center - UDL - Lane 2	1,20
			LC12c - LM1 - deck - center - UDL - Lane 3	1,20
			LC12d - LM1 - deck - center - UDL - Remaining	1,20
			LC14a - LM1 - T.slab - center - UDL - Lane 1	1,50
			LC14b - LM1 - T.slab - center - UDL - Lane 2	1,50
			LC14c - LM1 - T.slab - center - UDL - Lane 3	1,50
			LC14d - LM1 - T.slab - center - UDL - Remaining	1,50
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	1,50
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	1,50
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC20a - LM1 - center - TS -	1,50

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,96
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,96
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,96
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,96
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,96
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,96
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,96
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,96
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 5a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge -	1,20
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	1,20
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	1,20
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	1,20
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	1,50
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	1,50
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	1,50
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	1,50
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	1,50
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	1,50
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	1,50
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,50
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 5b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20
			UDL - Remaining	
			LC18b - LM1 - center - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center -	1,50
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center -	1,50
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center -	1,50
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center -	1,50
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	1,50
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	1,50
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	1,50
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	1,50
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 6a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge -	1,20
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	1,20
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	1,20
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	1,20
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	1,50
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	1,50
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	1,50
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	1,50
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	1,50
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	1,50
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	1,50
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,50
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 6b	center	Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20
			UDL - Remaining	
			LC18b - LM1 - center - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	1,50
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	1,50
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	1,50
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	1,50
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	1,50
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	1,50
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	1,50
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	1,50
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 7a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge -	0,96
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	0,96
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	0,96

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	0,96
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	0,96
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,96
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,96
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,96
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,96
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	0,96
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,96
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,96
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,96
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,96
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	0,96
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,96
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,96
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,96
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,96
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	1,20
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	1,20
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	1,20
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	1,20
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	1,20
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	1,20
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	1,20
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,20
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41a - Wind load +x	1,65
			(dominant)	
			LC41b - Wind load -x	1,65
			(dominant)	
			LC41e - Wind load +y	1,65
			(dominant)	
			LC41f - Wind load -y	1,65
			(dominant)	
ULS 7b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	0,96
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,96

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,96
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,96
			UDL - Remaining	
			LC18b - LM1 - center - TS -	0,96
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,96
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,96
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,96
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,96
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	0,96
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,96
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,96
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,96
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,96
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	0,96
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,96
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,96
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,96
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,96
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	1,20
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	1,20
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	1,20
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	1,20
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	1,20
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	1,20
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	1,20
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	1,20
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41a - Wind load +x	1,65
			(dominant)	
			LC41b - Wind load -x	1,65
			(dominant)	
			LC41e - Wind load +y	1,65
			(dominant)	
			LC41f - Wind load -y	1,65
			(dominant)	
ULS 7c	no traffic loads	Envelope - ultimate	LC1a - Self-weight - Deck	1,25

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Name	Description	Type	Load cases	Coeff. [-]
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 8a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,96
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,96
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,96
			LC11d - LM1 - deck - edge - UDL - Remaining	0,96
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,96
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,96
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,96
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,96
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,96
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,96
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,96
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,96
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,96
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,96
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,96
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,96
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,96
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,96
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,96
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC22e - Accelerating force -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,20
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41a - Wind load +x	1,65
			(dominant)	
			LC41b - Wind load -x	1,65
			(dominant)	
			LC41e - Wind load +y	1,65
			(dominant)	
			LC41f - Wind load -y	1,65
			(dominant)	
ULS 8b	center	Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	0,96
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,96
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,96
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,96
			UDL - Remaining	
			LC18b - LM1 - center - TS -	0,96
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,96
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,96
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,96
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,96
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	0,96
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,96
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,96
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,96
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,96
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	0,96
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,96
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,96
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,96
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,96
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	1,20
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	1,20
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	1,20
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	1,20
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	1,20
			center - UDL+TS - Pos. 3	
			(deck)	

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Name	Description	Type	Load cases	Coeff. [-]
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,48
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 8c	no traffic loads	Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
CAL 1a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,64
			LC21d - Braking force - edge -	0,64

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Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,64
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,64
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,64
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,64
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,64
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,64
			LC31 - Pedestrians and/or cyclists	0,32
			LC53c - Accident on bridge - Pos. 3	1,00
			LC53d - Accident on bridge - Pos. 4	1,00
			LC53e - Accident on bridge - Pos. 5	1,00
			LC53f - Accident on bridge - Pos. 6	1,00
CAL 2a	edge	Envelope - ultimate	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,64
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,64
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,64
			LC11d - LM1 - deck - edge - UDL - Remaining	0,64
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,64
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,64
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,64
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,64
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,64
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,64
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,64
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,64
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,64
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,64
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,64
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,64
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,64
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,64
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,64
			LC21c - Braking force - edge -	0,80

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Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC31 - Pedestrians and/or cyclists	0,32
			LC51a - Collision under bridge - Pier 1 - par.	1,00
			LC51b - Collision under bridge - Pier 1 - perp.	1,00
			LC51c - Collision under bridge - Pier 2 - par.	1,00
			LC51d - Collision under bridge - Pier 2 - perp.	1,00
			LC51e - Collision under bridge - Pier 3 - par.	1,00
			LC51f - Collision under bridge - Pier 3 - perp.	1,00
			LC51g - Collision under bridge - Pier 4 - par.	1,00
			LC51h - Collision under bridge - Pier 4 - perp.	1,00
			LC52a - Collision with edge of deck - Pos. 11	1,00
			LC52b - Collision with edge of deck - Pos. 22	1,00
			LC52c - Collision with edge of deck - Pos. 33	1,00
CAL 2b	center	Envelope - ultimate	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center - UDL - Lane 1	0,64
			LC12b - LM1 - deck - center - UDL - Lane 2	0,64
			LC12c - LM1 - deck - center - UDL - Lane 3	0,64
			LC12d - LM1 - deck - center - UDL - Remaining	0,64
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,64
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,64
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,64
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,64
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,64
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,64
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,64
			LC19d - LM1 - center - TS -	0,64

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,64
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,64
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	0,64
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,64
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,64
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,64
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,64
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,80
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,80
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,80
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,80
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,80
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,80
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,80
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,80
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,32
			cyclists	
			LC51a - Collision under bridge	1,00
			- Pier 1 - par.	
			LC51b - Collision under bridge	1,00
			- Pier 1 - perp.	
			LC51c - Collision under bridge	1,00
			- Pier 2 - par.	
			LC51d - Collision under bridge	1,00
			- Pier 2 - perp.	
			LC51e - Collision under bridge	1,00
			- Pier 3 - par.	
			LC51f - Collision under bridge	1,00
			- Pier 3 - perp.	
			LC51g - Collision under bridge	1,00
			- Pier 4 - par.	
			LC51h - Collision under bridge	1,00
			- Pier 4 - perp.	
			LC52a - Collision with edge of	1,00
			deck - Pos. 11	
			LC52b - Collision with edge of	1,00
			deck - Pos. 22	
			LC52c - Collision with edge of	1,00
			deck - Pos. 33	
SLS 1	permanent	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
SLS 2a	edge	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00

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Name	Description	Type	Load cases	Coeff. [-]
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC31 - Pedestrians and/or cyclists	0,80
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 2b	center	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,80

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,80
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,80
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,80
			UDL - Remaining	
			LC18b - LM1 - center - TS -	0,80
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,80
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,80
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,80
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,80
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	0,80
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,80
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,80
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,80
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,80
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	0,80
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,80
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,80
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,80
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,80
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,80
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,80
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,80
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,80
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,80
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,80
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,80
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,80
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,80
			cyclists	
			BG42a - Thermal load - Yearly	0,30
			+	
			BG42b - Thermal load - Yearly	0,30
			-	
SLS 3a	edge	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	0,80
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	0,80
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	0,80
			LC13d - LM1 - T.slab - edge - UDL - Remaining	0,80
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	0,80
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17a - LM1 - edge - TS - Lane 3 - Pos. 1 (T.slab)	0,80
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC22e - Accelerating force -	0,80

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,80
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,80
			cyclists	
			BG42a - Thermal load - Yearly	0,30
			+	
			BG42b - Thermal load - Yearly	0,30
			-	
SLS 3b	center	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,80
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,80
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,80
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,80
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	0,80
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	0,80
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	0,80
			UDL - Lane 3	
			LC14d - LM1 - T.slab - center -	0,80
			UDL - Remaining	
			LC18a - LM1 - center - TS -	0,80
			Lane 1 - Pos. 1 (T.slab)	
			LC18b - LM1 - center - TS -	0,80
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,80
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,80
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,80
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,80
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	0,80
			Lane 2 - Pos. 1 (T.slab)	
			LC19b - LM1 - center - TS -	0,80
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,80
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,80
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,80
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,80
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	0,80
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	0,80
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,80
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,80
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,80
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,80
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,80

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,80
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,80
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,80
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	0,80
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	0,80
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	0,80
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	0,80
			LC31 - Pedestrians and/or cyclists	0,80
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 4a	edge	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,40
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,40
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,40
			LC11d - LM1 - deck - edge - UDL - Remaining	0,40
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	0,40
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	0,40
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	0,40
			LC13d - LM1 - T.slab - edge - UDL - Remaining	0,40
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	0,40
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,40
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,40
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,40
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,40
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,40
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	0,40
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,40
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,40
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,40
			LC16e - LM1 - edge - TS -	0,40

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 4b	center	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center - UDL - Lane 1	0,40
			LC12b - LM1 - deck - center - UDL - Lane 2	0,40
			LC12c - LM1 - deck - center - UDL - Lane 3	0,40
			LC12d - LM1 - deck - center - UDL - Remaining	0,40
			LC14a - LM1 - T.slab - center - UDL - Lane 1	0,40
			LC14b - LM1 - T.slab - center - UDL - Lane 2	0,40
			LC14c - LM1 - T.slab - center - UDL - Lane 3	0,40
			LC14d - LM1 - T.slab - center - UDL - Remaining	0,40
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	0,40
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,40
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,40
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,40
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,40
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,40
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	0,40
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,40
			LC19c - LM1 - center - TS -	0,40

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 4c	no traffic loads	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 5a	edge	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,40
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,40
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,40
			LC11d - LM1 - deck - edge - UDL - Remaining	0,40
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	0,40
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	0,40
			LC13c - LM1 - T.slab - edge -	0,40

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 3	
			LC13d - LM1 - T.slab - edge -	0,40
			UDL - Remaining	
			LC15a - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 1 (T.slab)	
			LC15b - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			BG42a - Thermal load - Yearly +	0,80
			BG42b - Thermal load - Yearly -	0,80
SLS 5b	center	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,40
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,40
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,40
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,40
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	0,40
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	0,40
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	0,40
			UDL - Lane 3	
			LC14d - LM1 - T.slab - center -	0,40
			UDL - Remaining	
			LC18a - LM1 - center - TS -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 1 (T.slab)	
			LC18b - LM1 - center - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC19b - LM1 - center - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			BG42a - Thermal load - Yearly +	0,80
			BG42b - Thermal load - Yearly -	0,80
SLS 6a	edge	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,40
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,40
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,40
			LC11d - LM1 - deck - edge - UDL - Remaining	0,40
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	0,40
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	0,40
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	0,40
			LC13d - LM1 - T.slab - edge - UDL - Remaining	0,40
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	0,40
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,40
			LC15c - LM1 - edge - TS -	0,40

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			BG42c - Thermal load - Daily +	0,80
			BG42d - Thermal load - Daily -	0,80
SLS 6b	center	Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,40
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,40
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,40
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,40
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	0,40
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	0,40
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	0,40
			UDL - Lane 3	
			LC14d - LM1 - T.slab - center -	0,40
			UDL - Remaining	
			LC18a - LM1 - center - TS -	0,40
			Lane 1 - Pos. 1 (T.slab)	
			LC18b - LM1 - center - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,40
			Lane 1 - Pos. 5 (deck)	

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Name	Description	Type	Load cases	Coeff. [-]
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,40
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	0,40
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,40
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,40
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,40
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,40
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,40
			LC20a - LM1 - center - TS - Lane 3 - Pos. 1 (T.slab)	0,40
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	0,40
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	0,40
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	0,40
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	0,40
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	0,40
			LC31 - Pedestrians and/or cyclists	0,40
			BG42c - Thermal load - Daily +	0,80
			BG42d - Thermal load - Daily -	0,80
ULS 1a.1	Envelope - ultimate		LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,20
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,20
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,20
			LC11d - LM1 - deck - edge - UDL - Remaining	1,20
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC17c - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,96
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,96
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,96
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,96
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,96
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,96
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,96
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,96
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 1b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20
			UDL - Remaining	
			LC18b - LM1 - center - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,96
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,96
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,96
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,96
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,96
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,96
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,96
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,96
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 2a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC11a - LM1 - deck - edge -	1,20
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	1,20
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	1,20
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	1,20
			UDL - Remaining	
			LC13a - LM1 - T.slab - edge -	1,20
			UDL - Lane 1	
			LC13b - LM1 - T.slab - edge -	1,20
			UDL - Lane 2	
			LC13c - LM1 - T.slab - edge -	1,20
			UDL - Lane 3	
			LC13d - LM1 - T.slab - edge -	1,20
			UDL - Remaining	
			LC15a - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 1 (T.slab)	
			LC15b - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,96
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,96
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,96
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,96
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,96
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,96
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,96
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,96
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,48
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 2b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,40
			LC1b - Self-weight - Other	1,40
			LC2 - Dead load	1,40
			LC3 - Shrinkage/creep	1,40
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Remaining	
			LC14a - LM1 - T.slab - center - UDL - Lane 1	1,20
			LC14b - LM1 - T.slab - center - UDL - Lane 2	1,20
			LC14c - LM1 - T.slab - center - UDL - Lane 3	1,20
			LC14d - LM1 - T.slab - center - UDL - Remaining	1,20
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	1,20
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	1,20
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC20a - LM1 - center - TS - Lane 3 - Pos. 1 (T.slab)	1,20
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	0,96
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	0,96
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	0,96
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	0,96
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	0,96
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	0,96
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	0,96
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	0,96
			LC31 - Pedestrians and/or	0,48

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Name	Description	Type	Load cases	Coeff. [-]
			cyclists	
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 3a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,50
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,50
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,50
			LC11d - LM1 - deck - edge - UDL - Remaining	1,50
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,50
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,50
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,50
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,50
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,50
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,50
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,50
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,50
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,50
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,50
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,50
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	1,50
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	1,50
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	1,50
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	1,50
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC22f - Accelerating force -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 3b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	1,50
			LC12b - LM1 - deck - center - UDL - Lane 2	1,50
			LC12c - LM1 - deck - center - UDL - Lane 3	1,50
			LC12d - LM1 - deck - center - UDL - Remaining	1,50
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,50
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,50
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,50
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,50
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,50
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,50
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,50
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,50
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,50
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,50
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,50
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,50
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,50
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,50
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,50
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			(deck)	
			LC24e - Accelerating force - center - UDL+TS - Pos. 5	1,20
			(deck)	
			LC24f - Accelerating force - center - UDL+TS - Pos. 6	1,20
			(deck)	
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 4a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	1,20
			LC11b - LM1 - deck - edge - UDL - Lane 2	1,20
			LC11c - LM1 - deck - edge - UDL - Lane 3	1,20
			LC11d - LM1 - deck - edge - UDL - Remaining	1,20
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	1,50
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	1,50
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	1,50
			LC13d - LM1 - T.slab - edge - UDL - Remaining	1,50
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	1,50
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	1,50
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC17a - LM1 - edge - TS - Lane 3 - Pos. 1 (T.slab)	1,50
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC17c - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,96
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,96
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,96
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,96
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,96
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,96
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,96
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,96
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 4b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	1,50
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	1,50
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	1,50
			UDL - Lane 3	
			LC14d - LM1 - T.slab - center -	1,50
			UDL - Remaining	
			LC18a - LM1 - center - TS -	1,50
			Lane 1 - Pos. 1 (T.slab)	
			LC18b - LM1 - center - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	1,50

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 1 (T.slab)	
			LC19b - LM1 - center - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	1,50
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,96
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,96
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,96
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,96
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,96
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,96
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,96
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,96
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 5a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge -	1,20
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	1,20
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	1,20
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	1,20
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	1,50
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	1,50
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	1,50
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	1,50
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	1,50
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	1,50
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	1,50
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,50
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 5b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center -	1,20
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	1,20
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	1,20
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Remaining	
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,50
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,50
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,50
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,50
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,50
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,50
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,50
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,50
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y (combined with traffic)	1,65
			LC41h - Wind load -y (combined with traffic)	1,65
ULS 6a.1		Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge -	1,20

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	1,20
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	1,20
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	1,20
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	1,20
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	1,20
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	1,20
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	1,50
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	1,50
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	1,50
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	1,50
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	1,50
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	1,50
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	1,50
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	1,50
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,60
			cyclists	
			LC41c - Wind load +x	1,65
			(combined with traffic)	
			LC41d - Wind load -x	1,65
			(combined with traffic)	
			LC41g - Wind load +y	1,65
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 6b.1		Envelope - Ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90

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Name	Description	Type	Load cases	Coeff. [-]
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	1,20
			LC12b - LM1 - deck - center - UDL - Lane 2	1,20
			LC12c - LM1 - deck - center - UDL - Lane 3	1,20
			LC12d - LM1 - deck - center - UDL - Remaining	1,20
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	1,20
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	1,20
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	1,20
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	1,20
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	1,20
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	1,20
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	1,20
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	1,20
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	1,20
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	1,20
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	1,20
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	1,20
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	1,20
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	1,20
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	1,20
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,50
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,50
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,50
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,50
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,50
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,50
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,50
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,50
			LC31 - Pedestrians and/or cyclists	0,60
			LC41c - Wind load +x (combined with traffic)	1,65
			LC41d - Wind load -x (combined with traffic)	1,65
			LC41g - Wind load +y	1,65

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Name	Description	Type	Load cases	Coeff. [-]
			(combined with traffic)	
			LC41h - Wind load -y	1,65
			(combined with traffic)	
ULS 7a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,96
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,96
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,96
			LC11d - LM1 - deck - edge - UDL - Remaining	0,96
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,96
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,96
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,96
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,96
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,96
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,96
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,96
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,96
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,96
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,96
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,96
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,96
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,96
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,96
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,96
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,48
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x	1,65

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Name	Description	Type	Load cases	Coeff. [-]
			(dominant)	
			LC41e - Wind load +y	1,65
			(dominant)	
			LC41f - Wind load -y	1,65
			(dominant)	
ULS 7b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	0,96
			LC12b - LM1 - deck - center - UDL - Lane 2	0,96
			LC12c - LM1 - deck - center - UDL - Lane 3	0,96
			LC12d - LM1 - deck - center - UDL - Remaining	0,96
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,96
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,96
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,96
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,96
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,96
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,96
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,96
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,96
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,96
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,96
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	0,96
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	0,96
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	0,96
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	0,96
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	0,96
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,20

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			(deck)	
			LC31 - Pedestrians and/or cyclists	0,48
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 7c.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,25
			LC1b - Self-weight - Other	1,25
			LC2 - Dead load	1,25
			LC3 - Shrinkage/creep	1,25
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 8a.1		Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,96
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,96
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,96
			LC11d - LM1 - deck - edge - UDL - Remaining	0,96
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,96
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,96
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,96
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,96
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,96
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,96
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,96
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,96
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,96
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,96
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,96
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,96
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,96
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,96
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,96
			LC21c - Braking force - edge -	1,20

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	1,20
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	1,20
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	1,20
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,48
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 8b.1		Envelope - ultimate	LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC12a - LM1 - deck - center - UDL - Lane 1	0,96
			LC12b - LM1 - deck - center - UDL - Lane 2	0,96
			LC12c - LM1 - deck - center - UDL - Lane 3	0,96
			LC12d - LM1 - deck - center - UDL - Remaining	0,96
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,96
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,96
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,96
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,96
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,96
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,96
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,96
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,96
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,96
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,96
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	0,96
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	0,96
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	0,96
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	0,96
			LC20f - LM1 - center - TS -	0,96

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	1,20
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	1,20
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	1,20
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	1,20
			LC31 - Pedestrians and/or cyclists	0,48
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
ULS 8c.1	Envelope - ultimate		LC1a - Self-weight - Deck	0,90
			LC1b - Self-weight - Other	0,90
			LC2 - Dead load	0,90
			LC3 - Shrinkage/creep	1,25
			LC41a - Wind load +x (dominant)	1,65
			LC41b - Wind load -x (dominant)	1,65
			LC41e - Wind load +y (dominant)	1,65
			LC41f - Wind load -y (dominant)	1,65
CAL 1a.1	Envelope - ultimate		LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17b - LM1 - edge - TS -	0,80

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,80
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,80
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,80
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,80
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,64
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,64
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,64
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,64
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,64
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,64
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,64
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,64
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,32
			cyclists	
			LC53c - Accident on bridge -	1,00
			Pos. 3	
			LC53d - Accident on bridge -	1,00
			Pos. 4	
			LC53e - Accident on bridge -	1,00
			Pos. 5	
			LC53f - Accident on bridge -	1,00
			Pos. 6	
CAL 2a.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge -	0,64
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	0,64
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	0,64
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	0,64
			UDL - Remaining	
			LC15b - LM1 - edge - TS -	0,64
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,64
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,64
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,64
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,64
			Lane 1 - Pos. 6 (deck)	
			LC16b - LM1 - edge - TS -	0,64
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,64
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,64
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,64
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,64

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			Lane 2 - Pos. 6 (deck)	
			LC17b - LM1 - edge - TS -	0,64
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,64
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,64
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,64
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,64
			Lane 3 - Pos. 6 (deck)	
			LC21c - Braking force - edge -	0,80
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge -	0,80
			UDL+TS - Pos. 4 (deck)	
			LC21e - Braking force - edge -	0,80
			UDL+TS - Pos. 5 (deck)	
			LC21f - Braking force - edge -	0,80
			UDL+TS - Pos. 6 (deck)	
			LC22c - Accelerating force -	0,80
			edge - UDL+TS - Pos. 3 (deck)	
			LC22d - Accelerating force -	0,80
			edge - UDL+TS - Pos. 4 (deck)	
			LC22e - Accelerating force -	0,80
			edge - UDL+TS - Pos. 5 (deck)	
			LC22f - Accelerating force -	0,80
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,32
			cyclists	
			LC51a - Collision under bridge	1,00
			- Pier 1 - par.	
			LC51b - Collision under bridge	1,00
			- Pier 1 - perp.	
			LC51c - Collision under bridge	1,00
			- Pier 2 - par.	
			LC51d - Collision under bridge	1,00
			- Pier 2 - perp.	
			LC51e - Collision under bridge	1,00
			- Pier 3 - par.	
			LC51f - Collision under bridge	1,00
			- Pier 3 - perp.	
			LC51g - Collision under bridge	1,00
			- Pier 4 - par.	
			LC51h - Collision under bridge	1,00
			- Pier 4 - perp.	
			LC52a - Collision with edge of	1,00
			deck - Pos. 11	
			LC52b - Collision with edge of	1,00
			deck - Pos. 22	
			LC52c - Collision with edge of	1,00
			deck - Pos. 33	
CAL 2b.1		Envelope - ultimate	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,64
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,64
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,64
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,64
			UDL - Remaining	
			LC18b - LM1 - center - TS -	0,64
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,64

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,64
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,64
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,64
			Lane 1 - Pos. 6 (deck)	
			LC19b - LM1 - center - TS -	0,64
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,64
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,64
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,64
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,64
			Lane 2 - Pos. 6 (deck)	
			LC20b - LM1 - center - TS -	0,64
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,64
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,64
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,64
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,64
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,80
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,80
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,80
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,80
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,80
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,80
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,80
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,80
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,32
			cyclists	
			LC51a - Collision under bridge	1,00
			- Pier 1 - par.	
			LC51b - Collision under bridge	1,00
			- Pier 1 - perp.	
			LC51c - Collision under bridge	1,00
			- Pier 2 - par.	
			LC51d - Collision under bridge	1,00
			- Pier 2 - perp.	
			LC51e - Collision under bridge	1,00
			- Pier 3 - par.	
			LC51f - Collision under bridge	1,00
			- Pier 3 - perp.	
			LC51g - Collision under bridge	1,00
			- Pier 4 - par.	
			LC51h - Collision under bridge	1,00
			- Pier 4 - perp.	
			LC52a - Collision with edge of	1,00

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Name	Description	Type	Load cases	Coeff. [-]
			deck - Pos. 11	
			LC52b - Collision with edge of deck - Pos. 22	1,00
			LC52c - Collision with edge of deck - Pos. 33	1,00
SLS 1.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
SLS 2a.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC21c - Braking force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC22f - Accelerating force -	0,80

Project Thesis "The Circular Concrete Viaduct"

Name	Description	Type	Load cases	Coeff. [-]
			edge - UDL+TS - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,80
			BG42a - Thermal load - Yearly	0,30
			+ BG42b - Thermal load - Yearly	0,30
			-	
SLS 2b.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center - UDL - Lane 1	0,80
			LC12b - LM1 - deck - center - UDL - Lane 2	0,80
			LC12c - LM1 - deck - center - UDL - Lane 3	0,80
			LC12d - LM1 - deck - center - UDL - Remaining	0,80
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC23c - Braking force - center - UDL+TS - Pos. 3 (deck)	0,80
			LC23d - Braking force - center - UDL+TS - Pos. 4 (deck)	0,80
			LC23e - Braking force - center - UDL+TS - Pos. 5 (deck)	0,80
			LC23f - Braking force - center - UDL+TS - Pos. 6 (deck)	0,80
			LC24c - Accelerating force - center - UDL+TS - Pos. 3 (deck)	0,80
			LC24d - Accelerating force - center - UDL+TS - Pos. 4 (deck)	0,80
			LC24e - Accelerating force - center - UDL+TS - Pos. 5 (deck)	0,80

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Name	Description	Type	Load cases	Coeff. [-]
			LC24f - Accelerating force - center - UDL+TS - Pos. 6 (deck)	0,80
			LC31 - Pedestrians and/or cyclists	0,80
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 3a.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge - UDL - Lane 1	0,80
			LC11b - LM1 - deck - edge - UDL - Lane 2	0,80
			LC11c - LM1 - deck - edge - UDL - Lane 3	0,80
			LC11d - LM1 - deck - edge - UDL - Remaining	0,80
			LC13a - LM1 - T.slab - edge - UDL - Lane 1	0,80
			LC13b - LM1 - T.slab - edge - UDL - Lane 2	0,80
			LC13c - LM1 - T.slab - edge - UDL - Lane 3	0,80
			LC13d - LM1 - T.slab - edge - UDL - Remaining	0,80
			LC15a - LM1 - edge - TS - Lane 1 - Pos. 1 (T.slab)	0,80
			LC15b - LM1 - edge - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC15c - LM1 - edge - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC15d - LM1 - edge - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC15e - LM1 - edge - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC15f - LM1 - edge - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC16a - LM1 - edge - TS - Lane 2 - Pos. 1 (T.slab)	0,80
			LC16b - LM1 - edge - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC16c - LM1 - edge - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC16d - LM1 - edge - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC16e - LM1 - edge - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC16f - LM1 - edge - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC17a - LM1 - edge - TS - Lane 3 - Pos. 1 (T.slab)	0,80
			LC17b - LM1 - edge - TS - Lane 3 - Pos. 2 (deck)	0,80
			LC17c - LM1 - edge - TS - Lane 3 - Pos. 3 (deck)	0,80
			LC17d - LM1 - edge - TS - Lane 3 - Pos. 4 (deck)	0,80
			LC17e - LM1 - edge - TS - Lane 3 - Pos. 5 (deck)	0,80
			LC17f - LM1 - edge - TS - Lane 3 - Pos. 6 (deck)	0,80
			LC21c - Braking force - edge -	0,80

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Name	Description	Type	Load cases	Coeff. [-]
			UDL+TS - Pos. 3 (deck)	
			LC21d - Braking force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC21e - Braking force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC21f - Braking force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC22c - Accelerating force - edge - UDL+TS - Pos. 3 (deck)	0,80
			LC22d - Accelerating force - edge - UDL+TS - Pos. 4 (deck)	0,80
			LC22e - Accelerating force - edge - UDL+TS - Pos. 5 (deck)	0,80
			LC22f - Accelerating force - edge - UDL+TS - Pos. 6 (deck)	0,80
			LC31 - Pedestrians and/or cyclists	0,80
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 3b.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center - UDL - Lane 1	0,80
			LC12b - LM1 - deck - center - UDL - Lane 2	0,80
			LC12c - LM1 - deck - center - UDL - Lane 3	0,80
			LC12d - LM1 - deck - center - UDL - Remaining	0,80
			LC14a - LM1 - T.slab - center - UDL - Lane 1	0,80
			LC14b - LM1 - T.slab - center - UDL - Lane 2	0,80
			LC14c - LM1 - T.slab - center - UDL - Lane 3	0,80
			LC14d - LM1 - T.slab - center - UDL - Remaining	0,80
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	0,80
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,80
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,80
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,80
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,80
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,80
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	0,80
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,80
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,80
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,80
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,80
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,80
			LC20a - LM1 - center - TS -	0,80

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 3 - Pos. 1 (T.slab)	
			LC20b - LM1 - center - TS -	0,80
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,80
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,80
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,80
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,80
			Lane 3 - Pos. 6 (deck)	
			LC23c - Braking force - center	0,80
			- UDL+TS - Pos. 3 (deck)	
			LC23d - Braking force - center	0,80
			- UDL+TS - Pos. 4 (deck)	
			LC23e - Braking force - center	0,80
			- UDL+TS - Pos. 5 (deck)	
			LC23f - Braking force - center	0,80
			- UDL+TS - Pos. 6 (deck)	
			LC24c - Accelerating force -	0,80
			center - UDL+TS - Pos. 3	
			(deck)	
			LC24d - Accelerating force -	0,80
			center - UDL+TS - Pos. 4	
			(deck)	
			LC24e - Accelerating force -	0,80
			center - UDL+TS - Pos. 5	
			(deck)	
			LC24f - Accelerating force -	0,80
			center - UDL+TS - Pos. 6	
			(deck)	
			LC31 - Pedestrians and/or	0,80
			cyclists	
			BG42a - Thermal load - Yearly	0,30
			+	
			BG42b - Thermal load - Yearly	0,30
			-	
SLS 4a.1	Envelope - serviceability		LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge -	0,40
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	0,40
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	0,40
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	0,40
			UDL - Remaining	
			LC13a - LM1 - T.slab - edge -	0,40
			UDL - Lane 1	
			LC13b - LM1 - T.slab - edge -	0,40
			UDL - Lane 2	
			LC13c - LM1 - T.slab - edge -	0,40
			UDL - Lane 3	
			LC13d - LM1 - T.slab - edge -	0,40
			UDL - Remaining	
			LC15a - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 1 (T.slab)	
			LC15b - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 4b.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center - UDL - Lane 1	0,40
			LC12b - LM1 - deck - center - UDL - Lane 2	0,40
			LC12c - LM1 - deck - center - UDL - Lane 3	0,40
			LC12d - LM1 - deck - center - UDL - Remaining	0,40
			LC14a - LM1 - T.slab - center - UDL - Lane 1	0,40
			LC14b - LM1 - T.slab - center - UDL - Lane 2	0,40
			LC14c - LM1 - T.slab - center - UDL - Lane 3	0,40
			LC14d - LM1 - T.slab - center - UDL - Remaining	0,40
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	0,40
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,40
			LC18c - LM1 - center - TS -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	0,40
			Lane 2 - Pos. 1 (T.slabs)	
			LC19b - LM1 - center - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	0,40
			Lane 3 - Pos. 1 (T.slabs)	
			LC20b - LM1 - center - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or cyclists	0,40
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 4c.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC41a - Wind load +x (dominant)	0,60
			LC41b - Wind load -x (dominant)	0,60
			LC41e - Wind load +y (dominant)	0,60
			LC41f - Wind load -y (dominant)	0,60
			BG42a - Thermal load - Yearly +	0,30
			BG42b - Thermal load - Yearly -	0,30
SLS 5a.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	0,40
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	0,40
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	0,40
			UDL - Remaining	
			LC13a - LM1 - T.slab - edge -	0,40
			UDL - Lane 1	
			LC13b - LM1 - T.slab - edge -	0,40
			UDL - Lane 2	
			LC13c - LM1 - T.slab - edge -	0,40
			UDL - Lane 3	
			LC13d - LM1 - T.slab - edge -	0,40
			UDL - Remaining	
			LC15a - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 1 (T.slab)	
			LC15b - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,40
			cyclists	
			BG42a - Thermal load - Yearly	0,80
			+	
			BG42b - Thermal load - Yearly	0,80
			-	
SLS 5b.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,40
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,40
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,40
			UDL - Remaining	
			LC14a - LM1 - T.slabs - center -	0,40
			UDL - Lane 1	
			LC14b - LM1 - T.slabs - center -	0,40
			UDL - Lane 2	
			LC14c - LM1 - T.slabs - center -	0,40
			UDL - Lane 3	
			LC14d - LM1 - T.slabs - center -	0,40
			UDL - Remaining	
			LC18a - LM1 - center - TS -	0,40
			Lane 1 - Pos. 1 (T.slabs)	
			LC18b - LM1 - center - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC18c - LM1 - center - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC18d - LM1 - center - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC18e - LM1 - center - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC18f - LM1 - center - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC19a - LM1 - center - TS -	0,40
			Lane 2 - Pos. 1 (T.slabs)	
			LC19b - LM1 - center - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC19c - LM1 - center - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC19d - LM1 - center - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC19e - LM1 - center - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC19f - LM1 - center - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC20a - LM1 - center - TS -	0,40
			Lane 3 - Pos. 1 (T.slabs)	
			LC20b - LM1 - center - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC20c - LM1 - center - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC20d - LM1 - center - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC20e - LM1 - center - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC20f - LM1 - center - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,40
			cyclists	
			BG42a - Thermal load - Yearly	0,80
			+	
			BG42b - Thermal load - Yearly	0,80
			-	
SLS 6a.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC11a - LM1 - deck - edge -	0,40
			UDL - Lane 1	
			LC11b - LM1 - deck - edge -	0,40
			UDL - Lane 2	
			LC11c - LM1 - deck - edge -	0,40
			UDL - Lane 3	
			LC11d - LM1 - deck - edge -	0,40
			UDL - Remaining	
			LC13a - LM1 - T.slabs - edge -	0,40

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Name	Description	Type	Load cases	Coeff. [-]
			UDL - Lane 1	
			LC13b - LM1 - T.slab - edge -	0,40
			UDL - Lane 2	
			LC13c - LM1 - T.slab - edge -	0,40
			UDL - Lane 3	
			LC13d - LM1 - T.slab - edge -	0,40
			UDL - Remaining	
			LC15a - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 1 (T.slab)	
			LC15b - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 2 (deck)	
			LC15c - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 3 (deck)	
			LC15d - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 4 (deck)	
			LC15e - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 5 (deck)	
			LC15f - LM1 - edge - TS -	0,40
			Lane 1 - Pos. 6 (deck)	
			LC16a - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 1 (T.slab)	
			LC16b - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 2 (deck)	
			LC16c - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 3 (deck)	
			LC16d - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 4 (deck)	
			LC16e - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 5 (deck)	
			LC16f - LM1 - edge - TS -	0,40
			Lane 2 - Pos. 6 (deck)	
			LC17a - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 1 (T.slab)	
			LC17b - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 2 (deck)	
			LC17c - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 3 (deck)	
			LC17d - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 4 (deck)	
			LC17e - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 5 (deck)	
			LC17f - LM1 - edge - TS -	0,40
			Lane 3 - Pos. 6 (deck)	
			LC31 - Pedestrians and/or	0,40
			cyclists	
			BG42c - Thermal load - Daily	0,80
			+	
			BG42d - Thermal load - Daily -	0,80
SLS 6b.1		Envelope - serviceability	LC1a - Self-weight - Deck	1,00
			LC1b - Self-weight - Other	1,00
			LC2 - Dead load	1,00
			LC3 - Shrinkage/creep	1,00
			LC12a - LM1 - deck - center -	0,40
			UDL - Lane 1	
			LC12b - LM1 - deck - center -	0,40
			UDL - Lane 2	
			LC12c - LM1 - deck - center -	0,40
			UDL - Lane 3	
			LC12d - LM1 - deck - center -	0,40
			UDL - Remaining	
			LC14a - LM1 - T.slab - center -	0,40
			UDL - Lane 1	
			LC14b - LM1 - T.slab - center -	0,40
			UDL - Lane 2	
			LC14c - LM1 - T.slab - center -	0,40
			UDL - Lane 3	

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Name	Description	Type	Load cases	Coeff. [-]
			LC14d - LM1 - T.slab - center - UDL - Remaining	0,40
			LC18a - LM1 - center - TS - Lane 1 - Pos. 1 (T.slab)	0,40
			LC18b - LM1 - center - TS - Lane 1 - Pos. 2 (deck)	0,40
			LC18c - LM1 - center - TS - Lane 1 - Pos. 3 (deck)	0,40
			LC18d - LM1 - center - TS - Lane 1 - Pos. 4 (deck)	0,40
			LC18e - LM1 - center - TS - Lane 1 - Pos. 5 (deck)	0,40
			LC18f - LM1 - center - TS - Lane 1 - Pos. 6 (deck)	0,40
			LC19a - LM1 - center - TS - Lane 2 - Pos. 1 (T.slab)	0,40
			LC19b - LM1 - center - TS - Lane 2 - Pos. 2 (deck)	0,40
			LC19c - LM1 - center - TS - Lane 2 - Pos. 3 (deck)	0,40
			LC19d - LM1 - center - TS - Lane 2 - Pos. 4 (deck)	0,40
			LC19e - LM1 - center - TS - Lane 2 - Pos. 5 (deck)	0,40
			LC19f - LM1 - center - TS - Lane 2 - Pos. 6 (deck)	0,40
			LC20a - LM1 - center - TS - Lane 3 - Pos. 1 (T.slab)	0,40
			LC20b - LM1 - center - TS - Lane 3 - Pos. 2 (deck)	0,40
			LC20c - LM1 - center - TS - Lane 3 - Pos. 3 (deck)	0,40
			LC20d - LM1 - center - TS - Lane 3 - Pos. 4 (deck)	0,40
			LC20e - LM1 - center - TS - Lane 3 - Pos. 5 (deck)	0,40
			LC20f - LM1 - center - TS - Lane 3 - Pos. 6 (deck)	0,40
			LC31 - Pedestrians and/or cyclists	0,40
			BG42c - Thermal load - Daily +	0,80
			BG42d - Thermal load - Daily -	0,80

Project Thesis "The Circular Concrete Viaduct"**11. Critical cross-sectional forces at footing to foundation interface (ULS)**

Linear calculation

Class: ULS

Coordinate system: Member

Extreme 1D: Global

Selection: Named selection - F2F connections

Name	dx [mm]	Case	N [kN]	V _y [kN]	V _z [kN]	M _x [kNm]	M _y [kNm]	M _z [kNm]
Buispaal817	0,000	ULS 3a/1	-1199,09	4,03	-14,38	0,00	2,36	-0,73
Dowel3	10,000	ULS 6a/2	-216,37	10,66	-16,11	0,00	0,05	1,50
Buispaal824	0,000	CAL 2a/3	-678,74	-55,10	8,36	0,00	-0,29	-10,37
Buispaal831	0,000	ULS 7a/4	-615,13	20,83	-10,66	0,00	1,18	3,74
Dowel	0,000	ULS 2a/5	-834,91	2,01	-108,95	0,00	-1,75	-0,18
Dowel4	0,000	ULS 4a/6	-712,85	-1,72	63,33	0,00	0,88	-1,02
Buispaal816	10,000	CAL 2a/7	-581,16	9,62	-68,76	0,00	-13,09	1,79
Buispaal831	10,000	CAL 2a/8	-469,42	9,45	19,45	0,00	7,69	1,81
Dowel2	10,000	CAL 2a/9	-440,71	-49,32	-58,99	0,00	-2,84	-11,10
Dowel29	10,000	CAL 2a/10	-319,31	17,77	14,51	0,00	-3,44	3,99

Name	Combination key
ULS 3a/1	1.25*LC1a + 1.25*LC1b + 1.25*LC2 + 1.25*LC3 + 1.50*LC11a + 1.50*LC11b + 1.50*LC15e + 1.50*LC16e + 1.50*LC17e + 0.60*LC31 + 1.20*LC22d + 1.65*LC41h
ULS 6a/2	0.90*LC1a + 0.90*LC1b + 0.90*LC2 + 1.25*LC3 + 1.20*LC11a + 1.20*LC15c + 1.50*LC21d + 1.65*LC41d
CAL 2a/3	LC1a + LC1b + LC2 + LC3 + 0.64*LC11a + 0.64*LC15e + 0.64*LC17b + 0.80*LC21c + 0.32*LC31 + LC51e
ULS 7a/4	1.25*LC1a + 1.25*LC1b + 1.25*LC2 + 1.25*LC3 + 0.96*LC11c + 0.96*LC11d + 0.96*LC15b + 0.96*LC16b + 0.96*LC17e + 0.48*LC31 + 1.65*LC41b + 1.20*LC22c
ULS 2a/5	1.40*LC1a + 1.40*LC1b + 1.40*LC2 + 1.40*LC3 + 1.20*LC11a + 1.20*LC11b + 1.20*LC15b + 1.20*LC16a + 1.20*LC17a + 1.20*LC13a + 1.20*LC13b + 1.20*LC13c + 0.48*LC31 + 0.96*LC22c + 1.65*LC41h
ULS 4a/6	1.25*LC1a + 1.25*LC1b + 1.25*LC2 + 1.25*LC3 + 1.20*LC11a + 1.20*LC11b + 1.50*LC15a + 1.50*LC16a + 1.50*LC17a + 1.50*LC13a + 1.50*LC13b + 1.50*LC13c + 1.50*LC13d + 0.96*LC21c + 0.60*LC31 + 1.65*LC41g
CAL 2a/7	LC1a + LC1b + LC2 + LC3 + 0.64*LC11a + 0.64*LC11b + 0.64*LC11c + 0.64*LC11d + 0.64*LC15c + 0.80*LC21c + 0.32*LC31 + LC51h
CAL 2a/8	LC1a + LC1b + LC2 + LC3 + 0.64*LC15e + 0.64*LC16e + 0.64*LC17e + 0.80*LC22f + LC51b
CAL 2a/9	LC1a + LC1b + LC2 + LC3 + 0.64*LC11a + 0.64*LC11b + 0.64*LC15b + 0.64*LC16c + 0.64*LC17f + 0.80*LC22c + LC52a
CAL 2a/10	LC1a + LC1b + LC2 + LC3 + 0.64*LC11a + 0.64*LC15b + 0.64*LC16b + 0.64*LC17e + 0.80*LC21f + 0.32*LC31 + LC52c

12. Critical cross-sectional forces at footing to foundation interface (SLS)

Linear calculation

Class: SLS

Coordinate system: Member

Extreme 1D: Global

Selection: Named selection - F2F connections

Name	dx [mm]	Case	N [kN]	V _y [kN]	V _z [kN]	M _x [kNm]	M _y [kNm]	M _z [kNm]
Buispaal817	0,000	SLS 3a/1	-819,22	-1,03	-7,03	0,00	1,18	-0,97
Dowel15	10,000	SLS 3a/2	-257,35	-0,71	8,66	0,00	-2,25	-0,72
Buispaal816	0,000	SLS 4a/3	-557,84	7,69	-0,14	0,00	0,00	1,49
Dowel	0,000	SLS 3a/4	-582,36	-1,16	-75,67	0,00	-1,29	-0,65
Dowel4	0,000	SLS 3a/5	-500,93	1,32	43,01	0,00	-0,37	-0,16
Dowel8	0,000	SLS 2a/6	-457,87	-0,84	20,27	0,00	-6,35	-0,45
Dowel	0,000	SLS 3a/7	-468,52	1,24	-45,74	0,00	2,83	0,08
Buispaal824	10,000	SLS 4a/8	-608,55	-8,01	0,26	0,00	0,16	-1,87
Buispaal816	10,000	SLS 4a/9	-557,47	7,69	-0,08	0,00	-0,01	1,57

Name	Combination key
SLS 3a/1	LC1a + LC1b + LC2 + LC3 + 0.80*LC11a + 0.80*LC11b + 0.30*BG42b + 0.80*LC15e + 0.80*LC16e + 0.80*LC17e + 0.80*LC13a + 0.80*LC13b + 0.80*LC31 + 0.80*LC22d
SLS 3a/2	LC1a + LC1b + LC2 + LC3 + 0.80*LC11a + 0.30*BG42a + 0.80*LC15a + 0.80*LC13a + 0.80*LC22f
SLS 4a/3	LC1a + LC1b + LC2 + LC3 + 0.40*LC11c + 0.40*LC11d + 0.30*BG42a + 0.40*LC15b + 0.40*LC16a + 0.40*LC17f + 0.40*LC13a + 0.40*LC13b + 0.40*LC31 + 0.60*LC41b
SLS 3a/4	LC1a + LC1b + LC2 + LC3 + 0.80*LC11a + 0.80*LC11b + 0.30*BG42a + 0.80*LC15b + 0.80*LC16a + 0.80*LC17a + 0.80*LC13a + 0.80*LC13b + 0.80*LC13c + 0.80*LC31 + 0.80*LC22c
SLS 3a/5	LC1a + LC1b + LC2 + LC3 + 0.80*LC11a + 0.80*LC11b + 0.30*BG42b + 0.80*LC15a + 0.80*LC16a + 0.80*LC17a + 0.80*LC13a + 0.80*LC13b + 0.80*LC13c + 0.80*LC13d + 0.80*LC21c + 0.80*LC31
SLS 2a/6	LC1a + LC1b + LC2 + LC3 + 0.80*LC11a + 0.80*LC11b + 0.80*LC11c + 0.80*LC11d + 0.30*BG42a + 0.80*LC15c + 0.80*LC16c + 0.80*LC17c + 0.80*LC31 + 0.80*LC22c
SLS 3a/7	LC1a + LC1b + LC2 + LC3 + 0.30*BG42b + 0.80*LC15a + 0.80*LC16a + 0.80*LC17a + 0.80*LC13a + 0.80*LC13b + 0.80*LC13c + 0.80*LC13d + 0.80*LC21c
SLS 4a/8	LC1a + LC1b + LC2 + LC3 + 0.40*LC11a + 0.30*BG42a + 0.40*LC15e + 0.40*LC17b + 0.40*LC13c + 0.40*LC13d + 0.40*LC31 + 0.60*LC41a
SLS 4a/9	LC1a + LC1b + LC2 + LC3 + 0.40*LC11c + 0.40*LC11d + 0.30*BG42a + 0.40*LC15b + 0.40*LC17f + 0.40*LC13a + 0.40*LC31 + 0.60*LC41b

