				Sheet #	1
				Job #	20230339
Program:	LEAP® Bridge Concrete CONNECT Edition	EMH&T Inc		Designed	LEAP Bridge Concrete
Module:	Precast/Prestressed Girder	Copyright © Bentley Systems, Inc. 2022		Date	May/3/2024
Version:	22.00.02.19	www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Box Beam CB33-48 Option 1 BackCheck 1.lbcx			Date	


CAMBER/DEFLECTION

CAMBER AND DEFLECTIONS: SERVICE I (Span : 1, Beam : 2; Units: in)

	Release	Mult	Erection	Mult	Final
At 0.1 x L =	7.90 ft				
Prestress	1.245	1.80	2.240	2.20	2.738
Self Wt.	-0.504	1.85	-0.933	2.40	-1.210
Deck + Haunch			-0.140	2.30	-0.322
DL-Prec. (DC)			-0.051	3.00	-0.153
Diaphragm			-0.032	3.00	-0.097
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.012	3.00	-0.037
DL-Comp. (DW)			-0.091	3.00	-0.274
Live Load	Not Included				
Total	0.740		0.981		0.646

	Release	Mult	Erection	Mult	Final
At 0.2 x L =	16.30 ft				
Prestress	2.205	1.80	3.968	2.20	4.850
Self Wt.	-0.985	1.85	-1.823	2.40	-2.364
Deck + Haunch			-0.273	2.30	-0.628
DL-Prec. (DC)			-0.099	3.00	-0.297
Diaphragm			-0.063	3.00	-0.190
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.023	3.00	-0.070
DL-Comp. (DW)			-0.173	3.00	-0.518
Live Load	Not Included				
Total	1.219		1.514		0.783


	Release	Mult	Erection	Mult	Final
At 0.3 x L =	24.70 ft				
Prestress	2.903	1.80	5.225	2.20	6.386
Self Wt.	-1.363	1.85	-2.521	2.40	-3.270
Deck + Haunch			-0.378	2.30	-0.869
DL-Prec. (DC)			-0.136	3.00	-0.409
Diaphragm			-0.088	3.00	-0.263
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.032	3.00	-0.096
DL-Comp. (DW)			-0.236	3.00	-0.709
Live Load	Not Included				
Total	1.540		1.834		0.771

				Sheet #	2
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	Release	Mult	Erection	Mult	Final
At 0.4 x L =	33.10 ft				
Prestress	3.322	1.80	5.979	2.20	7.308
Self Wt.	-1.603	1.85	-2.965	2.40	-3.846
Deck + Haunch			-0.444	2.30	-1.022
DL-Prec. (DC)			-0.160	3.00	-0.479
Diaphragm			-0.103	3.00	-0.310
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.037	3.00	-0.112
DL-Comp. (DW)			-0.277	3.00	-0.830
Live Load	Not Included				
Total	1.719		1.993		0.709

	Release	Mult	Erection	Mult	Final
At 0.5 x L =	41.50 ft				
Prestress	3.461	1.80	6.231	2.20	7.615
Self Wt.	-1.685	1.85	-3.117	2.40	-4.044
Deck + Haunch			-0.467	2.30	-1.075
DL-Prec. (DC)			-0.167	3.00	-0.502
Diaphragm			-0.109	3.00	-0.326
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.039	3.00	-0.118
DL-Comp. (DW)			-0.291	3.00	-0.872
Live Load	Not Included				
Total	1.777		2.040		0.679

	Release	Mult	Erection	Mult	Final
At 0.6 x L =	49.90 ft				
Prestress	3.322	1.80	5.979	2.20	7.308
Self Wt.	-1.603	1.85	-2.965	2.40	-3.846
Deck + Haunch			-0.444	2.30	-1.022
DL-Prec. (DC)			-0.160	3.00	-0.479
Diaphragm			-0.103	3.00	-0.310
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.037	3.00	-0.112
DL-Comp. (DW)			-0.277	3.00	-0.830
Live Load	Not Included				
Total	1.719		1.993		0.709

				Sheet #	3
				Job #	20230339
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File Name:	Box Beam CB33-48 Option 1 BackCheck 1.lbcx			Date	

	Release	Mult	Erection	Mult	Final
At 0.7 x L =	58.30 ft				
Prestress	2.903	1.80	5.225	2.20	6.386
Self Wt.	-1.363	1.85	-2.521	2.40	-3.270
Deck + Haunch			-0.378	2.30	-0.869
DL-Prec. (DC)			-0.136	3.00	-0.409
Diaphragm			-0.088	3.00	-0.263
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.032	3.00	-0.096
DL-Comp. (DW)			-0.236	3.00	-0.709
Live Load	Not Included				
Total	1.540		1.834		0.771

	Release	Mult	Erection	Mult	Final
At 0.8 x L =	66.70 ft				
Prestress	2.205	1.80	3.968	2.20	4.850
Self Wt.	-0.985	1.85	-1.823	2.40	-2.364
Deck + Haunch			-0.273	2.30	-0.628
DL-Prec. (DC)			-0.099	3.00	-0.297
Diaphragm			-0.063	3.00	-0.190
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.023	3.00	-0.070
DL-Comp. (DW)			-0.173	3.00	-0.518
Live Load	Not Included				
Total	1.219		1.514		0.783

	Release	Mult	Erection	Mult	Final
At 0.9 x L =	75.10 ft				
Prestress	1.245	1.80	2.240	2.20	2.738
Self Wt.	-0.504	1.85	-0.933	2.40	-1.210
Deck + Haunch			-0.140	2.30	-0.322
DL-Prec. (DC)			-0.051	3.00	-0.153
Diaphragm			-0.032	3.00	-0.097
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.012	3.00	-0.037
DL-Comp. (DW)			-0.091	3.00	-0.274
Live Load	Not Included				
Total	0.740		0.981		0.646