



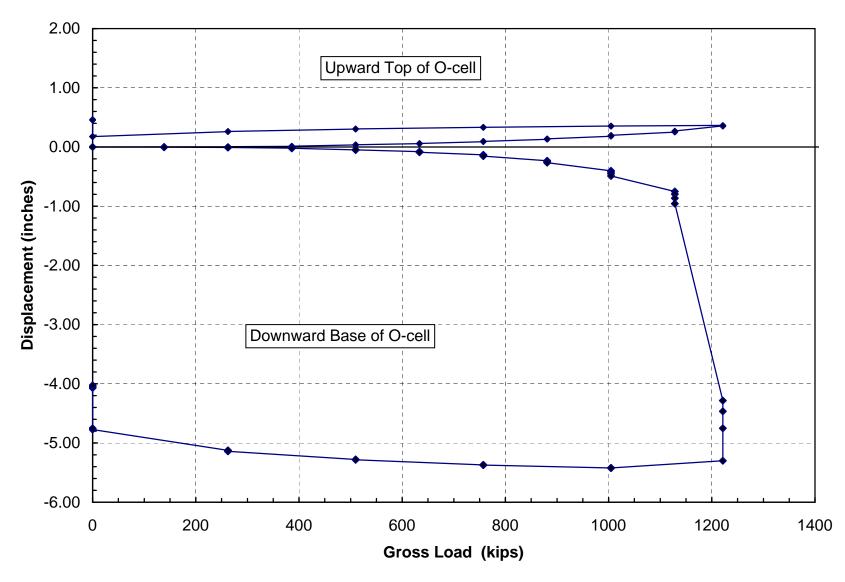
2631-D NW 41st St. Gainesville, FL 32606 Phone: 800-368-1138 FAX: 352-378-3934

SCHEMATIC SECTION OF TEST SHAFT Broadyway Viaduct — Council Bluffs, IA

DWN BY: BDH	DATE: 06 Nov 2009	CHECKED BY:	LT-9640-1
REVISED BY: AJS	DATE: 10 May 2010	SCALE: NTS	FIGURE A

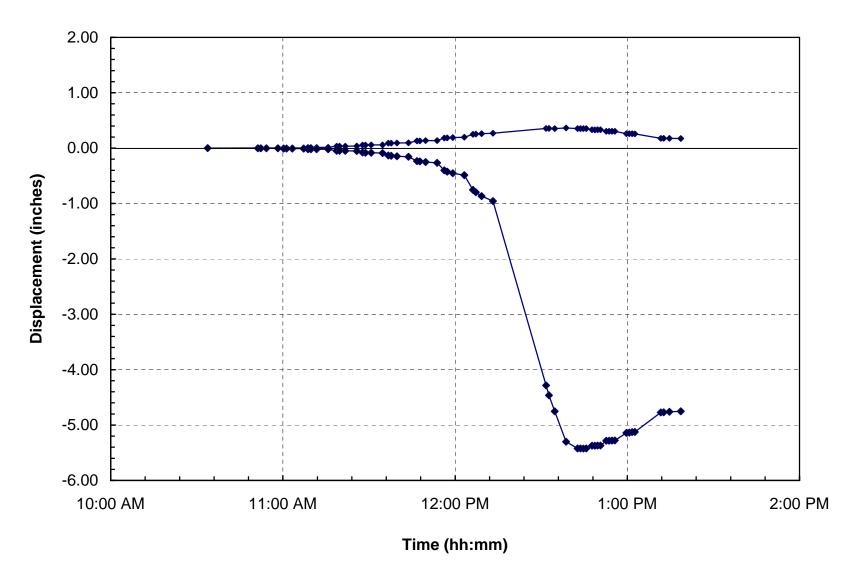


Osterberg Cell Load vs.Displacement Plots



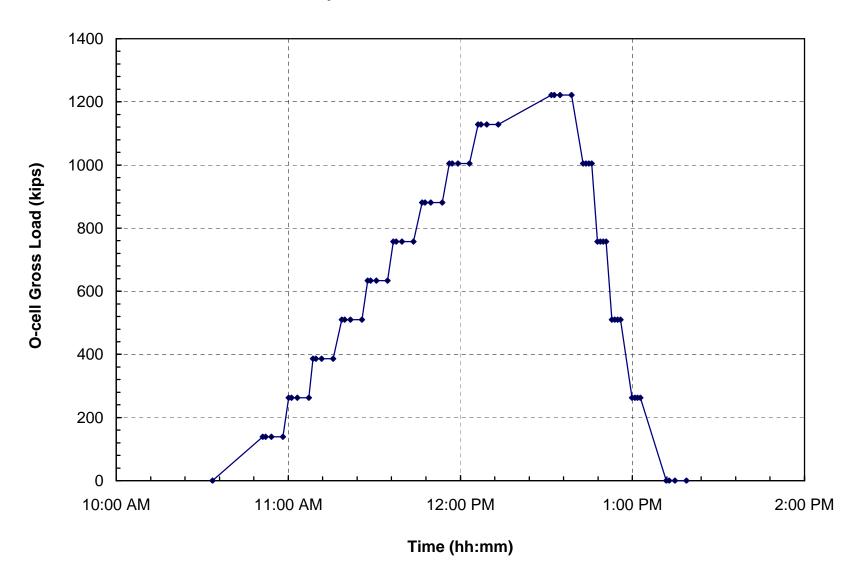


Osterberg Cell Time vs. Displacement Plots



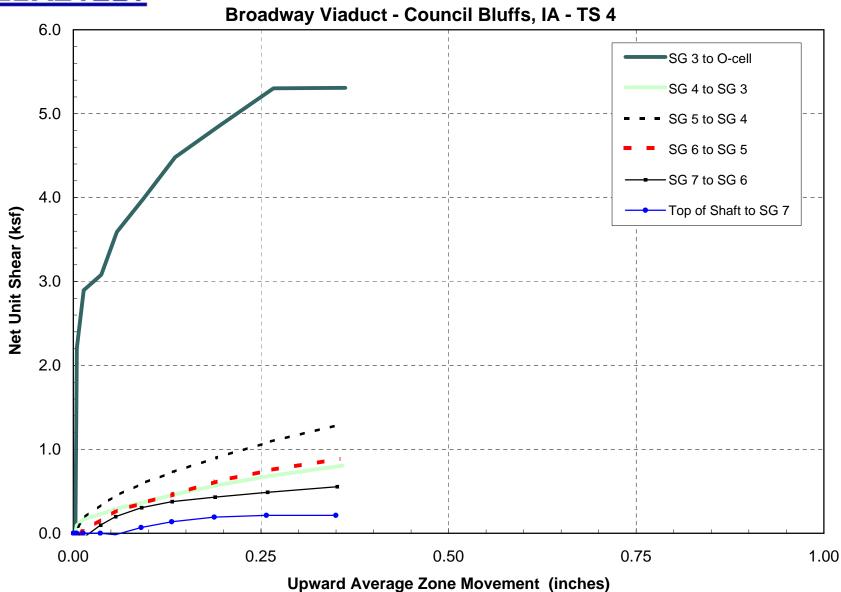


Osterberg Cell Load vs. Time



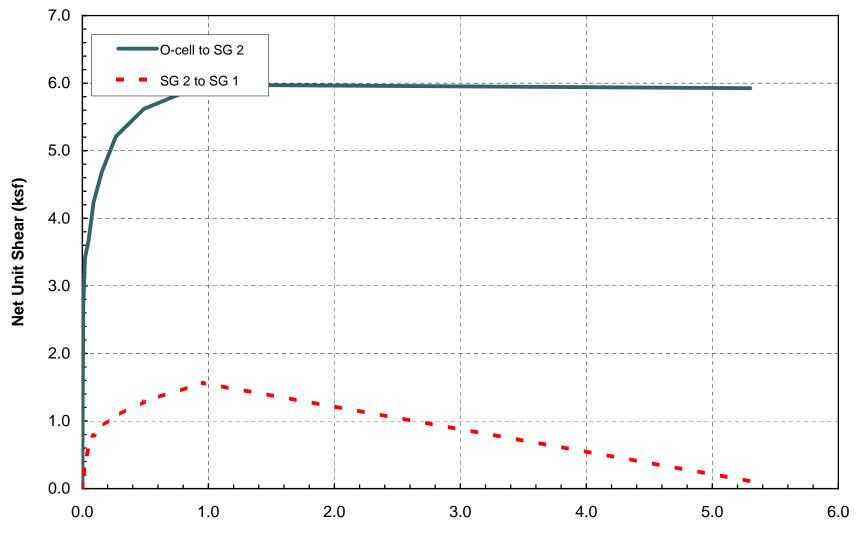


Net Unit Shear vs. Upward Average Zone Movement





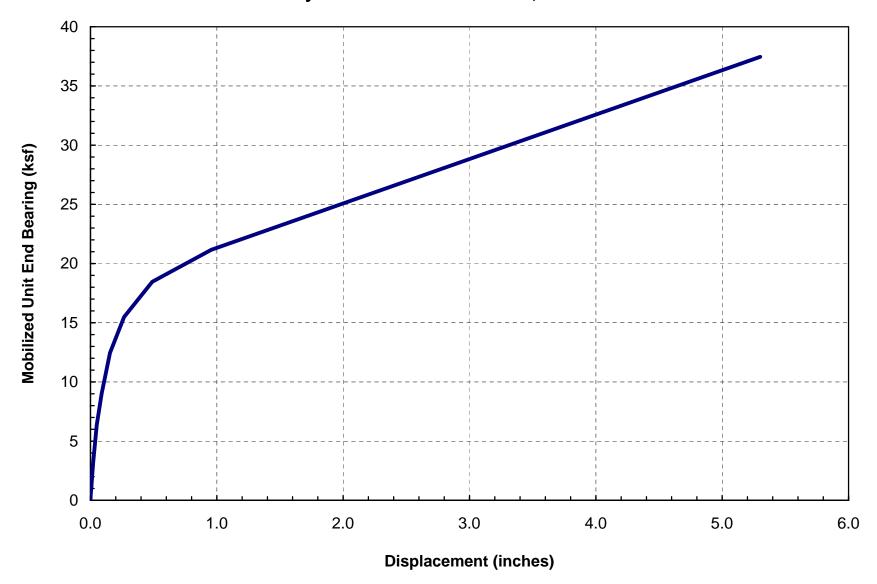
Net Unit Shear vs. Downward O-cell Movement



Downward O-cell Movement (inches)

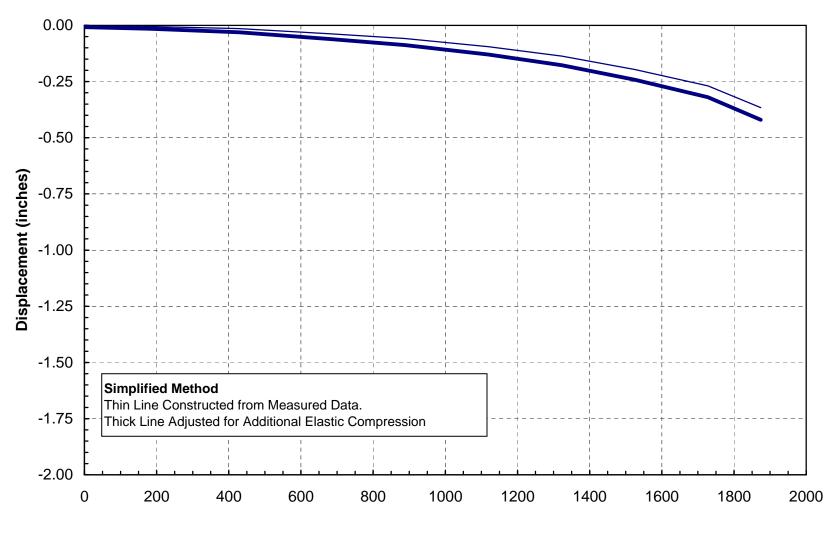


Mobilized Unit End Bearing vs. Downward O-cell Displacement Broadway Viaduct - Council Bluffs, IA - TS 4





Derived Top Load-Displacement Plots



Derived Top Load (kips)

Top of Shaft Movement and Compression Broadway Viaduct - Council Bluffs, IA - TS 4

Broadway Viaduct - Council Bluffs, IA - TS 4												
Load	Time	Time After	O-cell	Applied	Net		TOS Indicator Readings			Telltale Compression		
Test		Start	Pressure	Load	Load	Side A	Side B	Average	Side A	Side B	Average	
Increment	(h:m:s)	Minutes	(psi)	(kips)	(kips)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)	
1L -0	10:34:00	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	
1L -1	10:51:30	1	400	139	0	0.003	0.002	0.003	0.001	0.000	0.001	
1L -1	10:52:30	2	400	139	0	0.002	0.000	0.001	0.001	0.000	0.001	
1L -1	10:54:30	4	400	139	0	0.003	0.002	0.003	0.001	0.000	0.001	
1L -1	10:58:30	8	400	139	0	0.002	0.002	0.002	0.001	0.000	0.001	
1L -2	11:00:30	1	800	262	121	0.003	0.002	0.003	0.001	0.000	0.001	
1L -2	11:01:30	2	800	262	121	0.003	0.003	0.003	0.001	0.000	0.001	
1L -2	11:03:30	4	800	262	121	0.004	0.004	0.004	0.001	0.000	0.001	
1L -2	11:07:30	8	800	262	121	0.004	0.004	0.004	0.001	0.000	0.001	
1L -3	11:09:00	1	1,200	386	244	0.010	0.010	0.010	0.002	0.001	0.002	
1L -3	11:10:00	2	1,200	386	244	0.010	0.010	0.010	0.003	0.001	0.002	
1L -3	11:12:00	4	1,200	386	244	0.011	0.011	0.011	0.003	0.001	0.002	
1L -3	11:16:00	8	1,200	386	244	0.012	0.012	0.012	0.003	0.001	0.002	
1L -4	11:19:00	1	1,600	510	368	0.030	0.029	0.030	0.006	0.004	0.005	
1L -4	11:20:00	2	1,600	510	368	0.031	0.029	0.030	0.006	0.004	0.005	
1L -4	11:22:00	4	1,600	510	368	0.032	0.030	0.031	0.006	0.004	0.005	
1L -4	11:26:00	8	1,600	510	368	0.033	0.032	0.033	0.007	0.004	0.005	
1L -5	11:28:00	1	2,000	634	492	0.050	0.048	0.049	0.009	0.006	0.007	
1L -5	11:29:00	2	2,000	634	492	0.049	0.048	0.049	0.009	0.006	0.007	
1L -5	11:31:00	4	2,000	634	492 492	0.052	0.049	0.051	0.009	0.006	0.007	
1L -5	11:35:00	8	2,000	634		0.051	0.050	0.051	0.009	0.007	0.008	
1L -6	11:37:00	1	2,400	757 757	616	0.079	0.079	0.079	0.012	0.009	0.010	
1L -6	11:38:00	2	2,400	757 757	616	0.081	0.080	0.081	0.012	0.009	0.010	
1L -6	11:40:00 11:44:00	4 8	2,400 2,400	757 757	616 616	0.084 0.086	0.082 0.083	0.083 0.085	0.012 0.012	0.009 0.008	0.010 0.010	
1L -6 1L -7	11:47:00	1	2,400	881	739	0.088	0.063	0.063	0.012	0.008	0.010	
1L -7 1L -7		2	2,800		739	0.110	0.117		0.014	0.010	0.012	
1L -7 1L -7	11:48:00 11:50:00	4	2,800	881 881	739 739	0.120	0.119	0.120 0.123	0.014	0.010	0.012	
1L -7 1L -7	11:54:00	8	2,800	881	739	0.125	0.122	0.125	0.014	0.011	0.013	
1L -8	11:56:30	1	3,200	1,005	863	0.123	0.124	0.123	0.014	0.012	0.013	
1L -8	11:57:30	2	3,200	1,005	863	0.100	0.107	0.100	0.017	0.012	0.014	
1L -8	11:59:30	4	3,200	1,005	863	0.173	0.176	0.172	0.017	0.012	0.015	
1L -8	12:03:30	8	3,200	1,005	863	0.177	0.170	0.177	0.017	0.012	0.015	
1L -9	12:06:30	1	3,600	1,128	987	0.103	0.101	0.102	0.019	0.012	0.017	
1L -9	12:07:30	2	3,600	1,128	987	0.240	0.238	0.239	0.019	0.014	0.017	
1L -9	12:09:30	4	3,600	1,128	987	0.246	0.244	0.245	0.019	0.014	0.017	
1L -9	12:13:30	8	3,600	1,128	987	0.254	0.251	0.253	0.019	0.014	0.017	
1L -10	12:32:00	1	3,900	1,221	1,079	0.339	0.338	0.339	0.022	0.015	0.019	
1L -10	12:33:00	2	3,900	1,221	1,079	0.338	0.334	0.336	0.022	0.015	0.019	
1L -10	12:35:00	4	3,900	1,221	1,079	0.337	0.330	0.334	0.023	0.015	0.019	
1L -10	12:39:00	8	3,900	1,221	1,079	0.348	0.346	0.347	0.023	0.015	0.019	
1U - 1	12:43:00	1	3,200	1,005	863	0.336	0.334	0.335	0.021	0.015	0.018	
1U - 1	12:44:00	2	3,200	1,005	863	0.336	0.333	0.335	0.021	0.015	0.018	
1U - 1	12:45:00	3	3,200	1,005	863	0.335	0.333	0.334	0.021	0.015	0.018	
1U - 1	12:46:00	4	3,200	1,005	863	0.336	0.334	0.335	0.021	0.015	0.018	
1U - 2	12:48:00	1	2,400	757	616	0.318	0.313	0.316	0.019	0.013	0.016	
1U - 2	12:49:00	2	2,400	757	616	0.316	0.313	0.315	0.019	0.013	0.016	
1U - 2	12:50:00	3	2,400	757	616	0.317	0.314	0.316	0.019	0.013	0.016	
1U - 2	12:51:00	4	2,400	757	616	0.318	0.313	0.316	0.019	0.013	0.016	
1U - 3	12:53:00	1	1,600	510	368	0.292	0.289	0.291	0.017	0.011	0.014	
1U - 3	12:54:00	2	1,600	510	368	0.291	0.288	0.290	0.017	0.011	0.014	
1U - 3	12:55:00	3	1,600	510	368	0.291	0.288	0.290	0.017	0.011	0.014	
1U - 3	12:56:00	4	1,600	510	368	0.291	0.288	0.290	0.017	0.011	0.014	
1U - 4	13:00:00	1	800	262	121	0.252	0.249	0.251	0.013	0.008	0.011	
1U - 4	13:01:00	2	800	262	121	0.252	0.249	0.251	0.013	0.008	0.011	
1U - 4	13:02:00	3	800	262	121	0.250	0.248	0.249	0.013	0.008	0.011	
1U - 4	13:03:00	4	800	262	121	0.250	0.247	0.249	0.013	0.008	0.011	
1U - 5	13:12:00	1	0	0	0	0.172	0.169	0.171	0.008	0.005	0.006	
1U - 5	13:13:00	2	0	0	0	0.171	0.168	0.170	0.008	0.005	0.006	
1U - 5	13:15:00	4	0			0.171	0.168	0.170	0.008	0.005	0.006	
1U - 5	13:19:00	8	0	0	0	0.170	0.167	0.169	0.008	0.005	0.006	



O-cell Expansion Broadway Viaduct - Council Bluffs, IA - TS 4

					il Bluffs, IA - TS 4 LVWDT Readings (Expansion)					
Load	Time	Time After	O-cell	Applied	Net					
Test		Start	Pressure	Load	Load	1004897	1004898	13845	Average ¹	
Increment	(h:m:s)	Minutes	(psi)	(kips)	(kips)	(inches)	(inches)	(inches)	(inches)	
1L -0	10:34:00	0	0	0	0	0.000	0.000	0.000	0.000	
1L -1	10:51:30	1	400	139	0	0.005	0.005	0.005	0.005	
1L -1	10:52:30	2	400	139	0	0.005	0.005	0.005	0.005	
1L -1	10:54:30	4	400	139	0	0.005	0.005	0.005	0.005	
1L -1	10:58:30	8	400	139	0	0.005	0.005	0.005	0.005	
1L -2	11:00:30	1	800	262	121	0.011	0.011	0.010	0.011	
1L -2	11:01:30	2	800	262	121	0.011	0.011	0.011	0.011	
1L -2	11:03:30	4	800	262	121	0.012	0.012	0.011	0.012	
1L -2	11:07:30	8	800	262	121	0.012	0.012	0.011	0.012	
1L -3	11:09:00	1	1,200	386	244	0.030	0.030	0.028	0.030	
1L -3	11:10:00	2	1,200	386	244	0.031	0.032	0.030	0.032	
1L -3	11:12:00	4	1,200	386	244	0.033	0.034	0.032	0.034	
1L -3	11:16:00	8	1,200	386	244	0.034	0.035	0.033	0.035	
1L -4	11:19:00	1	1,600	510	368	0.082	0.083	0.080	0.082	
1L -4	11:20:00	2	1,600	510	368	0.083	0.084	0.081	0.084	
1L -4	11:22:00	4	1,600	510	368	0.085	0.086	0.083	0.086	
1L -4 1L -4	11:26:00	8	1,600	510	368	0.087	0.088	0.083	0.088	
1L -4 1L -5	11:28:00	1	2,000	634	492	0.037	0.086	0.034	0.000	
1L -5 1L -5	11:29:00	2	2,000	634	492	0.134	0.130	0.134	0.133	
1L -5	11:31:00	4	2,000	634	492	0.137	0.133	0.137	0.130	
1L -5 1L -5	11:35:00	8	2,000	634	492	0.141	0.143	0.141	0.142	
1L -5 1L -6	11:35:00	1	2,400	757	616	0.146	0.148	0.146	0.147	
1L -6 1L -6	11:37:00	2	2,400	757 757	616	0.219	0.223	0.220	0.221	
1L -6 1L -6	11:40:00	4	2,400	757 757	616	0.227	0.231	0.234	0.229	
1L -6 1L -6	11:44:00	8	2,400	757 757	616	0.237	0.241	0.239	0.239	
1L -0 1L -7		1		881	739	0.246	0.251	0.248	0.246	
	11:47:00		2,800							
1L -7	11:48:00	2	2,800	881	739	0.369	0.375	0.373	0.372	
1L -7	11:50:00	4	2,800	881	739	0.383	0.389	0.383	0.386	
1L -7	11:54:00	8	2,800	881	739	0.400	0.406	0.403	0.403	
1L -8	11:56:30	1 2	3,200	1,005	863	0.580	0.587	0.585	0.584	
1L -8	11:57:30	4	3,200	1,005	863	0.606	0.613	0.611	0.609	
1L -8	11:59:30		3,200	1,005	863	0.639	0.647	0.643	0.643	
1L -8	12:03:30	8	3,200	1,005	863	0.681	0.689	0.686	0.685	
1L -9	12:06:30	1	3,600	1,128	987	0.998	1.008	1.006	1.003	
1L -9	12:07:30	2	3,600	1,128	987	1.049	1.057	1.055	1.053	
1L -9	12:09:30	4	3,600	1,128	987	1.122	1.132	1.131	1.127	
1L -9	12:13:30	8	3,600	1,128	987	1.221	1.230	1.229	1.225	
1L -10	12:32:00	1	3,900	1,221	1,079	4.638	4.644	4.655	4.641	
1L -10	12:33:00	2	3,900	1,221	1,079	4.816	4.821	4.837	4.819	
1L -10	12:35:00	4	3,900	1,221	1,079	5.103	5.104	5.118	5.103	
1L -10	12:39:00	8	3,900	1,221	1,079	5.664	5.671	5.684	5.667	
1U - 1	12:43:00	1	3,200	1,005	863	5.766	5.786	5.805	5.776	
1U - 1	12:44:00	2	3,200	1,005	863	5.765	5.786	5.805	5.775	
1U - 1	12:45:00	3	3,200	1,005	863	5.766	5.786	5.805	5.776	
1U - 1	12:46:00	4	3,200	1,005	863	5.765	5.786	5.805	5.775	
1U - 2	12:48:00	1	2,400	757	616	5.693	5.714	5.734	5.704	
1U - 2	12:49:00	2	2,400	757	616	5.693	5.714	5.733	5.703	
1U - 2	12:50:00	3	2,400	757	616	5.692	5.713	5.733	5.703	
1U - 2	12:51:00	4	2,400	757	616	5.692	5.713	5.733	5.703	
1U - 3	12:53:00	1	1,600	510	368	5.577	5.600	5.622	5.588	
1U - 3	12:54:00	2	1,600	510	368	5.574	5.597	5.619	5.585	
1U - 3	12:55:00	3	1,600	510	368	5.572	5.594	5.617	5.583	
1U - 3	12:56:00	4	1,600	510	368	5.570	5.593	5.615	5.582	
1U - 4	13:00:00	1	800	262	121	5.391	5.414	5.438	5.403	
1U - 4	13:01:00	2	800	262	121	5.387	5.410	5.434	5.399	
1U - 4	13:02:00	3	800	262	121	5.374	5.398	5.421	5.386	
1U - 4	13:03:00	4	800	262	121	5.373	5.396	5.420	5.384	
1U - 5	13:12:00	1	0	0	0	4.937	4.963	4.997	4.950	
1U - 5	13:12:00	2	0	0	0	4.931	4.957	5.100	4.944	
1U - 5	13:15:00	4	0	0	0	4.924	4.948	4.973	4.936	
1U - 5	13:19:00	8	0	0	0	4.914	4.938	4.961	4.926	
						T 100/807 a			7.320	

¹LVWDT 13845 not included in average due to its orientation. LVWDT 1004897 and 1004898 are 180 degrees opposed.



Upward and Downward Movement and Creep

Broadway Viaduct - Council Bluffs, IA - TS 4 Load Time Time After O-cell Applied Net Top O-cell Upward Bottom O-cell Downward Test 0 Start Pressure Load Load Movement Creep Movement Creep (inches) Incremen (h:m:s) Minutes (psi) (kips) (kips) (inches) (inches) (inches) 11 -0 10:34:00 0.000 0.000 400 139 -0.002 1L -1 10:51:30 0.003 1L -1 10:52:30 2 400 139 0.002 -0.003 10:54:30 400 139 0.003 -0.002 1L -1 10:58:30 400 0.003 0.000 -0.002 0.000 1L -2 11:00:30 800 262 121 0.003 -0.008 2 800 -0.007 1L -2 11:01:30 262 121 0.004 262 121 800 0.005 -0.007 1L -2 11:03:30 11:07:30 8 800 121 0.005 0.000 -0.007 0.000 1L -2 262 244 1L -3 11:09:00 1,200 386 0.012 -0.018 244 244 1L -3 11:10:00 2 1,200 386 0.012 -0.020 11 -3 11.12.00 1 200 386 0.013 -0.021 244 0.001 0.000 386 1L -3 11:16:00 8 1.200 0.014 -0.02 368 1L -4 1,600 510 0.034 -0.048 11:19:00 11:20:00 2 368 0.035 -0.049 1L -4 1,600 510 1L -4 11:22:00 4 1,600 510 368 0.036 -0.050 1L -4 11:26:00 8 1,600 510 368 0.038 0.002 -0.050 0.000 1L -5 11:28:00 2 000 634 492 0.056 -0.078 492 1L -5 11:29:00 2 2,000 634 0.056 -0.082 492 1L -5 11:31:00 2,000 634 0.058 -0.084 11:35:00 2,000 634 492 0.059 0.00 -0.088 0.004 1L -5 8 1L -6 11:37:00 2,400 757 616 0.089 -0.132 1L -6 11:38:00 2 2,400 757 616 0.091 -0.138 1L -6 11:40:00 2.400 757 616 0.093 -0.14511:44:00 8 2,400 757 616 0.095 0.001 -0.154 0.008 1L -6 1L -7 11:47:00 2,800 881 739 0.130 -0.233 1L -7 11:48:00 2 2,800 881 739 0.132 -0.240 1L-7 11:50:00 4 2.800 881 739 0.135 -0.25 0.002 -0.266 0.015 11 -7 11:54:00 8 2 800 881 739 0.137 1L -8 11:56:30 3.200 1.005 863 0.182 -0.402 1L -8 11:57:30 2 3,200 1,005 863 0.187 -0.423 1L -8 11:59:30 4 3,200 1,005 863 0.191 -0.452 1L -8 12:03:30 8 3,200 1,005 863 0.197 0.005 -0.489 0.037 1L -9 12:06:30 3.600 1,128 987 0.251 -0.752 2 987 0.256 -0.797 1L -9 12:07:30 3.600 1,128 1L -9 3,600 987 0.262 -0.865 12:09:30 1,128 12:13:30 3,600 0.269 0.008 -0.956 0.091 1L -10 12:32:00 3,900 1,221 1,079 0.357 -4.284 1L -10 12:33:00 2 3 900 1.221 1,079 0.355 -4.464 11 -10 12:35:00 4 3 900 1 221 1 079 0.352 -4 75 1,079 1L -10 12:39:00 8 3,900 1,22 0.366 -5.30° 1U - 1 -5.423 12:43:00 3,200 1,005 863 0.353 1U - 1 12:44:00 2 3,200 1,005 863 0.353 -5.423 1U - 1 12:45:00 3 3,200 1,005 863 0.352 -5.424 1U - 1 12:46:00 3,200 1,005 863 0.353 -5.422 111 - 2 12:48:00 2 400 757 616 0.332 -5.372 2 1U - 2 12:49:00 2.400 757 616 0.331 -5.373 1U - 2 3 12:50:00 2,400 757 616 0.332 -5.37 1U - 2 12:51:00 2,400 757 616 0.332 -5.37 1U - 3 12:53:00 1,600 510 368 0.304 -5.284 1U - 3 12:54:00 2 1.600 510 510 368 0.303 -5.282 368 1U - 3 12:55:00 1.600 0.303 -5.280 368 12:56:00 1,600 510 0.303 -5.278 1U - 4 13:00:00 121 -5.14 1U - 4 13:01:00 2 800 262 121 0.261 -5.137 111 - 4 13:02:00 3 800 262 121 0.260 -5.126 800 1U - 4 13:03:00 4 262 121 0.259 -5 125 1U - 5 13:12:00 1 0.177 -4.773 2 1U - 5 13:13:00 0.176 -4.768 1U - 5 13:15:00 0.176 -4.760 13:19:00 0.175 -4.75



Strain Gage Readings and Loads at Levels 1 and 2 Broadway Viaduct - Council Bluffs, IA - TS 4

Load	Time	Time After	O-cell	Applied	Touumuy	Tiuuuot	Level 1	iuiis, iA	15 4		Lev	rel 2	
Test		Start	Pressure	Load	1004812	1004813	1004814	1004815	Av. Load	1004820	1004821	1004822	Av. Load
Increment	(h:m:s)	Minutes	(psi)	(kips)	με	με	με	με	(kips)	με	με	με	(kips)
1L -0	10:34:00	0	0	0	. 0	. 0	. 0	0		0	0	. 0	
1L -1	10:51:30	1	400	139	0	2	3	-1	14	-4	1	9	24
1L -1	10:52:30	2	400	139	0	2	3	-1	14	-4	1	9	25
1L -1	10:54:30	4	400	139	0	2	3	-1	14	-4	1	9	25
1L -1	10:58:30	8	400	139	0 1	2 4	3	-1 -1	14 27	-4 -7	3	9	26
1L -2 1L -2	11:00:30 11:01:30	1 2	800 800	262 262	1	4	5 5	-1 -1	27 27	-7 -7	3	16 16	49 50
1L -2 1L -2	11:03:30	4	800	262	1	4	5	-1	28	-7 -7	3	16	49
1L -2	11:07:30	8	800	262	1	4	5	-1	28	-7	3	16	50
1L -3	11:09:00	1	1,200	386	4	. 8	9	1	68	-4	8	22	110
1L -3	11:10:00	2	1,200	386	4	8	10	1	69	-3	8	22	110
1L -3	11:12:00	4	1,200	386	4	8	10	1	69	-3	8	22	115
1L -3	11:16:00	8	1,200	386	4	8	10	0	70	-3	8	23	116
1L -4	11:19:00	1	1,600	510	9	15	17	4	139	3	16	33	217
1L -4 1L -4	11:20:00	2 4	1,600	510 510	9	15 15	17 17	4	140 140	3	16 16	33 33	217
1L -4 1L -4	11:22:00 11:26:00	8	1,600 1,600	510	9	15	17	4	140	3	16	33	218 218
1L -4 1L -5	11:28:00	1	2,000	634	12	19	24	6		7	22	41	293
1L -5	11:29:00	2	2,000	634	12	20	24	6		7	21	41	294
1L -5	11:31:00	4	2,000	634	13	20	24	6		7	22	41	295
1L -5	11:35:00	8	2,000	634	13	20	24	6	199	7	22	42	298
1L -6	11:37:00	1	2,400	757	17	26	32	10	266	13	28	50	380
1L -6	11:38:00	2	2,400	757	17	26	32	10		13	28	50	381
1L -6	11:40:00	4	2,400	757	18	26	32 32	10	268	13 14	28 28	50	384
1L -6 1L -7	11:44:00 11:47:00	8 1	2,400 2,800	757 881	18 22	26 31	32	10 13	270 329	19	34	50 57	386 463
1L -7 1L -7	11:47:00	2	2,800	881	22	32	37	14	329	19	34	57 57	463
1L -7	11:50:00	4	2,800	881	23	32	38	14	333	20	34	57	466
1L -7	11:54:00	8	2,800	881	23	32	37	14	334	20	34	57	468
1L -8	11:56:30	1	3,200	1,005	28	37	43	17	394	26	40	65	551
1L -8	11:57:30	2	3,200	1,005	28	38	42	17	396	26	40	65	555
1L -8	11:59:30	4	3,200	1,005	28	38	42	17	395	27	41	65	558
1L -8	12:03:30	8	3,200	1,005	29	38	42	18	398	27	41	66	560
1L -9	12:06:30	1 2	3,600	1,128	33	43	47	21	453	34	47	72	642
1L -9 1L -9	12:07:30 12:09:30	4	3,600 3,600	1,128 1,128	33 34	43 43	47 47	21 21	453 457	34 35	47 47	72 73	646 650
1L -9	12:13:30	8	3,600	1,128	34	44	47	21	459	35	48	73	655
1L -10	12:32:00	1	3,900	1,221	52	65	66	35	688	45	51	80	739
1L -10	12:33:00	2	3,900	1,221	53	66	66	35	696	45	51	80	741
1L -10	12:35:00	4	3,900	1,221	54	66	67	35	701	46	50	80	736
1L -10	12:39:00	8	3,900	1,221	58	68	70	38	739	48	50	81	752
1U - 1	12:43:00	1	3,200	1,005	50	62	60	31	639	39	40	69	624
1U - 1 1U - 1	12:44:00	2	3,200	1,005	49	62	59 59	31	635	39	40 40	69	623
1U - 1 1U - 1	12:45:00 12:46:00	3 4	3,200 3,200	1,005 1,005	49 49	62 62	59 58	31 30	633 626	39 39	40 40	69 69	620 617
1U - 1 1U - 2	12:48:00	1	2,400	757	49	53	49	24	525	28	29	55	474
1U - 2	12:49:00	2	2,400	757	41	53	49	24	525	28	30	56	474
1U - 2	12:50:00	3	2,400	757	41	53	49	24	525	28	30	56	476
1U - 2	12:51:00	4	2,400	757	41	53	49	24	526	28	30	55	475
1U - 3	12:53:00	1	1,600	510	31	41	36	16	389	16	18	40	308
1U - 3	12:54:00	2	1,600	510	31	41	36	16		16	18	40	309
1U - 3	12:55:00	3	1,600	510	31	41	36	16		16	17	40	307
1U - 3 1U - 4	12:56:00 13:00:00	<u>4</u> 1	1,600 800	510 262	30 19	41 28	36 23	15 7	387 244	16 5	17 7	40 25	308 150
10 - 4 1U - 4	13:00:00	2	800	262 262	19	28 28	23 23	7	244 242	5	6	25 24	143
10 - 4 1U - 4	13:02:00	3	800	262	18	26 27	23	6		3	6	24	137
1U - 4	13:03:00	4	800	262	19	27	22	6	235	4	6	24	138
1U - 5	13:12:00	1	0	0	4	11	5	-3	54	-10	-7	5	-52
1U - 5	13:13:00	2	0	0	4	11	5	-3	52	-10	-7	5	-52
1U - 5	13:15:00	4	0	0	4	11	5	-3	51	-10	-7	4	-54
1U - 5	13:19:00	8	0	0	4	11	5	-3	52	-10	-7	4	-54



Strain Gage Readings and Loads at Levels 3 and 4



Strain Gage Readings and Loads at Levels 5 and 6 Broadway Viaduct - Council Bluffs, IA - TS 4



Strain Gage Readings and Loads at Level 7

Broadway Viaduct - Council Bluffs, IA - TS 4 Load Time O-cell Applied Level 7 1004852 Test 0 Start Pressure Load 1004850 1004851 Av. Load Incremen (h:m:s) Minutes (psi) (kips) (kips) 11 -0 10:34:00 400 139 10:51:30 1L -1 0 0 1L -1 10:52:30 2 400 139 0 0 1L -1 10:54:30 400 139 0 0 10:58:30 400 1L -2 11:00:30 800 262 0 0 1L -2 262 0 11:01:30 2 800 0 0 1L -2 262 800 11:03:30 1L -2 11:07:30 8 800 262 0 0 0 11:09:00 1,200 386 1L -3 1L -3 11:10:00 2 1,200 386 0 0 1L -3 11.12.00 1.200 386 8 386 11:16:00 0 1L -3 1.200 21 1L -4 11:19:00 1,600 510 1L -4 11:20:00 1,600 22 2 1L -4 11:22:00 1,600 510 22 1L -4 11:26:00 1,600 510 21 33 3 3 1L -5 2.000 11.28.00 634 2 2 1L -5 2,000 634 33 11:29:00 2 1L -5 11:31:00 2,000 634 1L -5 11:35:00 2,000 634 8 1L -6 11:37:00 2,400 757 5 3 48 5 5 48 1L -6 11:38:00 2 2,400 757 3 3 48 1L -6 2.400 757 11:40:00 1L -6 11:44:00 8 2,400 757 50 1L -7 11:47:00 2,800 881 61 1L -7 11:48:00 2 2,800 881 6 62 3 3 3 1L -7 11:50:00 4 2.800 881 6 62 11:54:00 62 71 1L -7 2.800 881 6 7 7 7 11:56:30 3.200 1.005 1L -8 3 1L -8 11:57:30 3,200 1,005 71 1L -8 11:59:30 3,200 1,005 71 1L -8 12:03:30 3,200 1,005 8 72 1L -9 12:06:30 3,600 1,128 8 3 78 78 12:07:30 2 3.600 1,128 1L -9 8 1L -9 12:09:30 3,600 1,128 77 3,600 1,128 76 74 75 1L -10 12:32:00 3,900 1,221 8 3 3 3 1L -10 12:33:00 2 3.900 1,221 3 8 8 8 11 -10 12:35:00 4 3 900 1,221 74 76 12:39:00 3,900 1,221 1L -10 70 1U - 1 12:43:00 3,200 1,005 8 3 1U - 1 12:44:00 2 3,200 1,005 8 68 1U - 1 12:45:00 3 3,200 1,005 8 70 1U - 1 12:46:00 3,200 1,005 8 67 3 3 3 111 - 2 12:48:00 2.400 757 8 62 8 757 63 1U - 2 12:49:00 2 2.400 1Ū - 2 3 2,400 63 12:50:00 757 1U - 2 12:51:00 2,400 757 63 1U - 3 12:53:00 1,600 510 2 2 53 1U - 3 12:54:00 2 1.600 510 53 12:55:00 510 1U - 3 1.600 54 54 43 12:56:00 1,600 510 1U - 4 13:00:00 262 1U - 4 13:01:00 2 800 262 6 43 111 - 4 13:02:00 3 800 262 6 42 43 13:03:00 800 262 1U - 4 6 4 0 20 0 1U - 5 13:12:00 0 2 0 0 21 1U - 5 13:13:00 1U - 5 13:15:00 0 0 19 1U - 5 13:19:00



Earth Pressure Cells

Time	Broadway Viaduct - Council Bluffs, IA - TS 4										
	Load	Time	Time After	O-cell	Applied		NAT -	- EPC			
	Test	0	Start	Pressure	Load	1001598	1001599	1001600	1001601		
IL-1	Increment	(h:m:s)	Minutes	(psi)	(kips)	(psi)	(psi)	(psi)	(psi)		
IL-1	1L -0	10:34:00	0	0	0	0	0	0	0		
1L-1	1L -1	10:51:30	1	400	139	0	1	0	0		
111	1L -1	10:52:30	2	400	139	0	1	0	0		
The color of the											
11-22											
1122											
1L-2											
The color of the											
113											
1L-3											
1L-3									2		
Table Tabl											
1L - 4											
114											
1L - 4						-					
Table Tabl											
1L -5											
1L -5											
1L -6 11:37:00 1 2,400 757 5 7 2 16 1L -6 11:38:00 2 2,400 757 4 7 2 15 1L -6 11:44:00 8 2,400 757 4 7 2 14 1L -6 11:44:00 8 2,400 757 4 7 2 14 1L -7 11:47:00 1 2,800 881 7 10 2 20 1L -7 11:50:00 4 2,800 881 7 10 2 19 1L -8 11:56:30 1 3,200 1,005 12 14 3 26 1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 12:06:30 1 3,600 1,128 16 18<	1L -5		4		634	2	4	1	10		
1L -6	1L -5	11:35:00	8	2,000	634	2			9		
1L - 6	1L -6	11:37:00	1	2,400	757	5	7		16		
1L - 6					757						
1L -7 11:47:00 1 2,800 881 7 10 2 20 1L -7 11:48:00 2 2,800 881 7 10 2 19 1L -7 11:56:00 4 2,800 881 7 10 2 19 1L -8 11:56:30 1 3,200 1,005 12 14 3 26 1L -8 11:56:30 1 3,200 1,005 12 14 3 26 1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 11:06:30 1 3,600 1,105 11 14 4 24 1L -9 12:06:30 1 3,600 1,128 16 18 5 34 1L -9 12:09:30 4 3,600 1,128 16 18 5 34 1L -10 12:33:00 8 3,600 1,221 38											
1L - 7											
The color of the							-				
1L-7											
1L -8 11:56:30 1 3,200 1,005 12 14 3 26 1L -8 11:57:30 2 3,200 1,005 12 14 3 25 1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 12:03:30 8 3,200 1,005 11 14 4 25 1L -9 12:06:30 1 3,600 1,128 16 18 5 34 1L -9 12:07:30 2 3,600 1,128 16 18 5 34 1L -9 12:13:30 8 3,600 1,128 16 19 5 35 1L -10 12:33:00 2 3,900 1,221 38 107 27 108 1L -10 12:33:00 2 3,900 1,221 37 109 27 107 1L -10 12:39:00 8 3,900 1,221											
1L -8 11:57:30 2 3,200 1,005 12 14 3 25 1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 12:03:30 8 3,200 1,005 11 14 4 24 1L -9 12:06:30 1 3,600 1,128 16 18 5 34 1L -9 12:09:30 4 3,600 1,128 16 19 5 35 1L -9 12:13:30 8 3,600 1,128 16 19 5 35 1L -10 12:32:00 1 3,900 1,221 38 107 27 108 1L -10 12:33:00 2 3,900 1,221 38 107 27 108 1L -10 12:35:00 4 3,900 1,221 38 120 30 111 1L -10 12:35:00 4 3,900 1,221											
1L -8 11:59:30 4 3,200 1,005 12 14 4 25 1L -8 12:03:30 8 3,200 1,005 11 14 4 24 1L -9 12:06:30 1 3,600 1,128 16 18 5 34 1L -9 12:07:30 2 3,600 1,128 16 18 5 35 1L -9 12:13:30 8 3,600 1,128 16 19 5 35 1L -10 12:32:00 1 3,900 1,221 38 107 27 108 1L -10 12:35:00 4 3,900 1,221 38 120 30 111 1L -10 12:35:00 4 3,900 1,221 38 120 30 111 1L -10 12:35:00 4 3,900 1,221 33 109 27 107 1L -10 12:39:00 8 3,900 1,221 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
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1L -10 12:39:00 8 3,900 1,221 43 145 36 118 1U - 1 12:43:00 1 3,200 1,005 32 114 28 80 1U - 1 12:44:00 2 3,200 1,005 31 110 27 77 1U - 1 12:46:00 4 3,200 1,005 30 109 27 76 1U - 2 12:48:00 1 2,400 757 23 90 23 62 1U - 2 12:49:00 2 2,400 757 23 90 23 62 1U - 2 12:50:00 3 2,400 757 23 90 22 62 1U - 2 12:51:00 4 2,400 757 22 89 22 62 1U - 2 12:55:00 3 1,600 510 13 67 17 41 1U - 3 12:53:00 1 1,600 510		12:33:00	2	3,900	1,221	38	120	30	111		
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1U - 1 12:45:00 3 3,200 1,005 31 110 27 77 1U - 1 12:46:00 4 3,200 1,005 30 109 27 76 1U - 2 12:48:00 1 2,400 757 23 90 23 62 1U - 2 12:50:00 3 2,400 757 23 90 22 62 1U - 2 12:50:00 3 2,400 757 22 89 22 62 1U - 3 12:55:00 1 1,600 510 13 67 17 41 1U - 3 12:55:00 3 1,600 510 13 66 16 43 1U - 3 12:56:00 4 1,600 510 13 66 16 44 1U - 3 12:56:00 4 1,600 510 13 65 16 44 1U - 4 13:00:00 1 800 262 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
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1U - 2 12:48:00 1 2,400 757 23 90 23 62 1U - 2 12:49:00 2 2,400 757 22 89 22 62 1U - 2 12:50:00 3 2,400 757 22 88 22 62 1U - 3 12:53:00 1 1,600 510 13 67 17 41 1U - 3 12:54:00 2 1,600 510 13 66 16 43 1U - 3 12:56:00 3 1,600 510 13 66 16 44 1U - 3 12:56:00 4 1,600 510 13 65 16 44 1U - 4 13:00:00 1 800 262 4 43 11 25 1U - 4 13:00:00 1 800 262 3 38 9 13 1U - 4 13:02:00 3 800 262 4											
1U - 2 12:49:00 2 2,400 757 23 90 22 62 1U - 2 12:50:00 3 2,400 757 22 89 22 62 1U - 2 12:51:00 4 2,400 757 22 88 22 62 1U - 3 12:53:00 1 1,600 510 13 67 17 41 1U - 3 12:55:00 3 1,600 510 13 66 16 43 1U - 3 12:56:00 4 1,600 510 13 65 16 44 1U - 4 13:00:00 1 800 262 4 43 11 25 1U - 4 13:03:00 2 800 262 3 38 9 13 1U - 4 13:03:00 4 800 262 4 41 10 24 1U - 5 13:13:00 1 0 0 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
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