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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C261	Pilote 100	0	Check	0.047	B.2.4.7-8	28.4	0.00589	0.00693	No Message
N-3.60	C261	Pilote 100	25	Check	0.059	B.2.4.7-8	28.4	0.00589	0.00693	No Message
N-3.60	C261	Pilote 100	50	Check	0.072	B.2.4.7-8	28.4	0.00589	0.00693	No Message
N-3.60	C262	Pilote 100	0	Check	0.072	B.2.4.7-8	28.4	0.00654	0.0075	No Message
N-3.60	C262	Pilote 100	25	Check	0.085	B.2.4.7-8	28.4	0.00654	0.0075	No Message
N-3.60	C262	Pilote 100	50	Check	0.098	B.2.4.7-8	28.4	0.00654	0.0075	No Message
N-3.60	C263	Pilote 100	0	Check	0.098	B.2.4.7-8	28.4	0.00698	0.00778	No Message
N-3.60	C263	Pilote 100	25	Check	0.112	B.2.4.7-8	28.4	0.00698	0.00778	No Message
N-3.60	C263	Pilote 100	50	Check	0.126	B.2.4.7-8	28.4	0.00698	0.00778	No Message
N-3.60	C264	Pilote 100	0	Check	0.126	B.2.4.7-8	28.4	0.00715	0.00768	No Message
N-3.60	C264	Pilote 100	25	Check	0.139	B.2.4.7-8	28.4	0.00715	0.00768	No Message
N-3.60	C264	Pilote 100	50	Check	0.153	B.2.4.7-8	28.4	0.00715	0.00768	No Message
N-3.60	C265	Pilote 100	0	Check	0.153	B.2.4.7-8	28.4	0.00696	0.0071	No Message
N-3.60	C265	Pilote 100	25	Check	0.167	B.2.4.7-8	28.4	0.00696	0.0071	No Message
N-3.60	C265	Pilote 100	50	Check	0.18	B.2.4.7-8	28.4	0.00696	0.0071	No Message
N-3.60	C266	Pilote 100	0	Check	0.18	B.2.4.7-8	28.4	0.00633	0.006	No Message
N-3.60	C266	Pilote 100	25	Check	0.192	B.2.4.7-8	28.4	0.00633	0.006	No Message
N-3.60	C266	Pilote 100	50	Check	0.205	B.2.4.7-8	28.4	0.00633	0.006	No Message
N-3.60	C267	Pilote 100	0	Check	0.205	B.2.4.7-8	28.4	0.0052	0.00458	No Message
N-3.60	C267	Pilote 100	25	Check	0.215	B.2.4.7-8	28.4	0.0052	0.00458	No Message
N-3.60	C267	Pilote 100	50	Check	0.225	B.2.4.7-8	28.4	0.0052	0.00458	No Message
N-3.60	C268	Pilote 100	0	Check	0.225	B.2.4.7-8	28.4	0.00354	0.00254	No Message
N-3.60	C268	Pilote 100	25	Check	0.231	B.2.4.7-8	28.4	0.00354	0.00254	No Message
N-3.60	C268	Pilote 100	50	Check	0.238	B.2.4.7-8	28.4	0.00354	0.00254	No Message
N-3.60	C269	Pilote 100	0	Check	0.238	B.2.4.7-8	28.4	0.00185	0.00167	No Message
N-3.60	C269	Pilote 100	25	Check	0.241	B.2.4.7-8	28.4	0.00185	0.00167	No Message
N-3.60	C269	Pilote 100	50	Check	0.244	B.2.4.7-8	28.4	0.00185	0.00167	No Message
N-3.60	C270	Pilote 100	0	Check	0.244	B.2.4.7-8	28.4	0.00395	0.00564	No Message
N-3.60	C270	Pilote 100	25	Check	0.241	B.2.4.7-8	28.4	0.00395	0.00564	No Message
N-3.60	C270	Pilote 100	50	Check	0.239	B.2.4.7-8	28.4	0.00395	0.00564	No Message
N-3.60	C271	Pilote 100	0	Check	0.239	B.2.4.7-8	28.4	0.00765	0.01035	No Message
N-3.60	C271	Pilote 100	25	Check	0.23	B.2.4.7-8	28.4	0.00765	0.01035	No Message
N-3.60	C271	Pilote 100	50	Check	0.224	B.2.4.7-8	28.4	0.00765	0.01035	No Message
N-3.60	C272	Pilote 100	0	Check	0.224	B.2.4.7-8	28.4	0.01194	0.01565	No Message
N-3.60	C272	Pilote 100	25	Check	0.211	B.2.4.7-8	28.4	0.01194	0.01565	No Message
N-3.60	C272	Pilote 100	50	Check	0.201	B.2.4.5-3	28.4	0.01194	0.01565	No Message
N-3.60	C273	Pilote 100	0	Check	0.201	B.2.4.5-3	28.4	0.01665	0.02141	No Message
N-3.60	C273	Pilote 100	25	Check	0.186	B.2.4.5-3	28.4	0.01665	0.02141	No Message
N-3.60	C273	Pilote 100	50	Check	0.172	B.2.4.5-3	28.4	0.01665	0.02141	No Message
N-3.60	C274	Pilote 100	0	Check	0.172	B.2.4.5-3	28.4	0.02161	0.02742	No Message
N-3.60	C274	Pilote 100	25	Check	0.153	B.2.4.5-3	28.4	0.02161	0.02742	No Message
N-3.60	C274	Pilote 100	50	Check	0.143	B.2.4.5-3	28.4	0.02161	0.02742	No Message
N-3.60	C275	Pilote 100	0	Check	0.143	B.2.4.5-3	28.4	0.02661	0.03345	No Message
N-3.60	C275	Pilote 100	25	Check	0.17	B.2.4.5-8	28.4	0.02661	0.03345	No Message
N-3.60	C275	Pilote 100	50	Check	0.216	B.2.4.5-8	28.4	0.02661	0.03345	No Message
N-3.60	C276	Pilote 100	0	Check	0.216	B.2.4.5-8	28.4	0.03137	0.03914	No Message
N-3.60	C276	Pilote 100	25	Check	0.27	B.2.4.5-8	28.4	0.03137	0.03914	No Message
N-3.60	C276	Pilote 100	50	Check	0.325	B.2.4.5-8	28.4	0.03137	0.03914	No Message
N-3.60	C277	Pilote 100	0	Check	0.325	B.2.4.5-8	28.4	0.03566	0.04423	No Message
N-3.60	C277	Pilote 100	25	Check	0.387	B.2.4.5-8	28.4	0.03566	0.04423	No Message
N-3.60	C277	Pilote 100	50	Check	0.45	B.2.4.5-8	28.4	0.03566	0.04423	No Message
N-3.60	C278	Pilote 100	0	Check	0.45	B.2.4.5-8	28.4	0.03921	0.04842	No Message
N-3.60	C278	Pilote 100	25	Check	0.52	B.2.4.5-8	28.4	0.03921	0.04842	No Message
N-3.60	C278	Pilote 100	50	Check	0.59	B.2.4.5-8	28.4	0.03921	0.04842	No Message
N-3.60	C279	Pilote 100	0	Check	0.59	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C279	Pilote 100	0.1	Check	0.59	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C279	Pilote 100	0.2	Check	0.591	B.2.4.5-8	28.4	0	0	No Message

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Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C280	Pilote 100	0	Check	0.024	B.2.4.2-1	28.4	0.00593	0.00252	No Message
N-3.60	C280	Pilote 100	25	Check	0.023	B.2.4.2-1	28.4	0.00593	0.00252	No Message
N-3.60	C280	Pilote 100	50	Check	0.023	B.2.4.2-1	28.4	0.00593	0.00252	No Message
N-3.60	C281	Pilote 100	0	Check	0.023	B.2.4.2-1	28.4	0.00372	0.00204	No Message
N-3.60	C281	Pilote 100	25	Check	0.022	B.2.4.2-1	28.4	0.00372	0.00204	No Message
N-3.60	C281	Pilote 100	50	Check	0.021	B.2.4.2-1	28.4	0.00372	0.00204	No Message
N-3.60	C282	Pilote 100	0	Check	0.021	B.2.4.2-1	28.4	0.00239	0.00241	No Message
N-3.60	C282	Pilote 100	25	Check	0.02	B.2.4.2-1	28.4	0.00239	0.00241	No Message
N-3.60	C282	Pilote 100	50	Check	0.02	B.2.4.2-1	28.4	0.00239	0.00241	No Message
N-3.60	C283	Pilote 100	0	Check	0.02	B.2.4.2-1	28.4	0.00227	0.00327	No Message
N-3.60	C283	Pilote 100	25	Check	0.019	B.2.4.5-3	28.4	0.00227	0.00327	No Message
N-3.60	C283	Pilote 100	50	Check	0.019	B.2.4.5-3	28.4	0.00227	0.00327	No Message
N-3.60	C284	Pilote 100	0	Check	0.019	B.2.4.5-3	28.4	0.00294	0.00424	No Message
N-3.60	C284	Pilote 100	25	Check	0.019	B.2.4.5-3	28.4	0.00294	0.00424	No Message
N-3.60	C284	Pilote 100	50	Check	0.019	B.2.4.5-3	28.4	0.00294	0.00424	No Message
N-3.60	C285	Pilote 100	0	Check	0.019	B.2.4.5-3	28.4	0.00381	0.0052	No Message
N-3.60	C285	Pilote 100	25	Check	0.019	B.2.4.5-3	28.4	0.00381	0.0052	No Message
N-3.60	C285	Pilote 100	50	Check	0.02	B.2.4.5-3	28.4	0.00381	0.0052	No Message
N-3.60	C286	Pilote 100	0	Check	0.02	B.2.4.5-3	28.4	0.00468	0.00608	No Message
N-3.60	C286	Pilote 100	25	Check	0.023	B.2.4.7-4	28.4	0.00468	0.00608	No Message
N-3.60	C286	Pilote 100	50	Check	0.03	B.2.4.7-8	28.4	0.00468	0.00608	No Message
N-3.60	C287	Pilote 100	0	Check	0.03	B.2.4.7-8	28.4	0.00548	0.00682	No Message
N-3.60	C287	Pilote 100	25	Check	0.039	B.2.4.7-8	28.4	0.00548	0.00682	No Message
N-3.60	C287	Pilote 100	50	Check	0.051	B.2.4.7-8	28.4	0.00548	0.00682	No Message
N-3.60	C288	Pilote 100	0	Check	0.051	B.2.4.7-8	28.4	0.00615	0.00735	No Message
N-3.60	C288	Pilote 100	25	Check	0.063	B.2.4.7-8	28.4	0.00615	0.00735	No Message
N-3.60	C288	Pilote 100	50	Check	0.076	B.2.4.7-8	28.4	0.00615	0.00735	No Message
N-3.60	C289	Pilote 100	0	Check	0.076	B.2.4.7-8	28.4	0.00666	0.00761	No Message
N-3.60	C289	Pilote 100	25	Check	0.089	B.2.4.7-8	28.4	0.00666	0.00761	No Message
N-3.60	C289	Pilote 100	50	Check	0.103	B.2.4.7-8	28.4	0.00666	0.00761	No Message
N-3.60	C290	Pilote 100	0	Check	0.103	B.2.4.7-8	28.4	0.00693	0.00777	No Message
N-3.60	C290	Pilote 100	25	Check	0.116	B.2.4.7-8	28.4	0.00693	0.00777	No Message
N-3.60	C290	Pilote 100	50	Check	0.129	B.2.4.7-8	28.4	0.00693	0.00777	No Message
N-3.60	C291	Pilote 100	0	Check	0.129	B.2.4.7-8	28.4	0.0069	0.00751	No Message
N-3.60	C291	Pilote 100	25	Check	0.142	B.2.4.7-8	28.4	0.0069	0.00751	No Message
N-3.60	C291	Pilote 100	50	Check	0.155	B.2.4.7-8	28.4	0.0069	0.00751	No Message
N-3.60	C292	Pilote 100	0	Check	0.155	B.2.4.7-8	28.4	0.0065	0.00677	No Message
N-3.60	C292	Pilote 100	25	Check	0.166	B.2.4.7-8	28.4	0.0065	0.00677	No Message
N-3.60	C292	Pilote 100	50	Check	0.178	B.2.4.7-8	28.4	0.0065	0.00677	No Message
N-3.60	C293	Pilote 100	0	Check	0.178	B.2.4.7-8	28.4	0.00565	0.00543	No Message
N-3.60	C293	Pilote 100	25	Check	0.187	B.2.4.7-8	28.4	0.00565	0.00543	No Message
N-3.60	C293	Pilote 100	50	Check	0.197	B.2.4.7-8	28.4	0.00565	0.00543	No Message
N-3.60	C294	Pilote 100	0	Check	0.197	B.2.4.7-8	28.4	0.00437	0.00347	No Message
N-3.60	C294	Pilote 100	25	Check	0.205	B.2.4.7-4	28.4	0.00437	0.00347	No Message
N-3.60	C294	Pilote 100	50	Check	0.214	B.2.4.7-4	28.4	0.00437	0.00347	No Message
N-3.60	C295	Pilote 100	0	Check	0.214	B.2.4.7-4	28.4	0.00287	0.00083	No Message
N-3.60	C295	Pilote 100	25	Check	0.219	B.2.4.7-4	28.4	0.00287	0.00083	No Message
N-3.60	C295	Pilote 100	50	Check	0.225	B.2.4.7-4	28.4	0.00287	0.00083	No Message
N-3.60	C296	Pilote 100	0	Check	0.225	B.2.4.7-4	28.4	0.00306	0.00614	No Message
N-3.60	C296	Pilote 100	25	Check	0.226	B.2.4.7-4	28.4	0.00306	0.00614	No Message
N-3.60	C296	Pilote 100	50	Check	0.228	B.2.4.7-4	28.4	0.00306	0.00614	No Message
N-3.60	C297	Pilote 100	0	Check	0.228	B.2.4.7-4	28.4	0.00578	0.01085	No Message
N-3.60	C297	Pilote 100	25	Check	0.224	B.2.4.7-4	28.4	0.00578	0.01085	No Message
N-3.60	C297	Pilote 100	50	Check	0.22	B.2.4.7-4	28.4	0.00578	0.01085	No Message
N-3.60	C298	Pilote 100	0	Check	0.22	B.2.4.7-4	28.4	0.00934	0.01614	No Message
N-3.60	C298	Pilote 100	25	Check	0.211	B.2.4.7-4	28.4	0.00934	0.01614	No Message
N-3.60	C298	Pilote 100	50	Check	0.204	B.2.4.5-3	28.4	0.00934	0.01614	No Message

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N-3.60	C299	Pilote 100	0	Check	0.204	B.2.4.5-3	28.4	0.01338	0.02186	No Message
N-3.60	C299	Pilote 100	25	Check	0.191	B.2.4.5-3	28.4	0.01338	0.02186	No Message
N-3.60	C299	Pilote 100	50	Check	0.18	B.2.4.5-3	28.4	0.01338	0.02186	No Message
N-3.60	C300	Pilote 100	0	Check	0.18	B.2.4.5-3	28.4	0.01769	0.02782	No Message
N-3.60	C300	Pilote 100	25	Check	0.164	B.2.4.5-3	28.4	0.01769	0.02782	No Message
N-3.60	C300	Pilote 100	50	Check	0.154	B.2.4.5-3	28.4	0.01769	0.02782	No Message
N-3.60	C301	Pilote 100	0	Check	0.154	B.2.4.5-3	28.4	0.02209	0.03377	No Message
N-3.60	C301	Pilote 100	25	Check	0.165	B.2.4.5-3	28.4	0.02209	0.03377	No Message
N-3.60	C301	Pilote 100	50	Check	0.199	B.2.4.5-8	28.4	0.02209	0.03377	No Message
N-3.60	C302	Pilote 100	0	Check	0.199	B.2.4.5-8	28.4	0.02632	0.03937	No Message
N-3.60	C302	Pilote 100	25	Check	0.248	B.2.4.5-8	28.4	0.02632	0.03937	No Message
N-3.60	C302	Pilote 100	50	Check	0.299	B.2.4.5-8	28.4	0.02632	0.03937	No Message
N-3.60	C303	Pilote 100	0	Check	0.299	B.2.4.5-8	28.4	0.03016	0.04437	No Message
N-3.60	C303	Pilote 100	25	Check	0.358	B.2.4.5-8	28.4	0.03016	0.04437	No Message
N-3.60	C303	Pilote 100	50	Check	0.419	B.2.4.5-8	28.4	0.03016	0.04437	No Message
N-3.60	C304	Pilote 100	0	Check	0.419	B.2.4.5-8	28.4	0.03339	0.04846	No Message
N-3.60	C304	Pilote 100	25	Check	0.485	B.2.4.5-8	28.4	0.03339	0.04846	No Message
N-3.60	C304	Pilote 100	50	Check	0.551	B.2.4.5-8	28.4	0.03339	0.04846	No Message
N-3.60	C305	Pilote 100	0	Check	0.551	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C305	Pilote 100	0.1	Check	0.551	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C305	Pilote 100	0.2	Check	0.551	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C306	Pilote 100	0	Check	0.048	B.2.4.5-8	28.4	0.0064	0.00608	No Message
N-3.60	C306	Pilote 100	25	Check	0.047	B.2.4.5-8	28.4	0.0064	0.00608	No Message
N-3.60	C306	Pilote 100	50	Check	0.047	B.2.4.5-8	28.4	0.0064	0.00608	No Message
N-3.60	C307	Pilote 100	0	Check	0.047	B.2.4.5-8	28.4	0.00412	0.00414	No Message
N-3.60	C307	Pilote 100	25	Check	0.046	B.2.4.5-8	28.4	0.00412	0.00414	No Message
N-3.60	C307	Pilote 100	50	Check	0.045	B.2.4.5-8	28.4	0.00412	0.00414	No Message
N-3.60	C308	Pilote 100	0	Check	0.045	B.2.4.5-8	28.4	0.00279	0.00319	No Message
N-3.60	C308	Pilote 100	25	Check	0.045	B.2.4.5-8	28.4	0.00279	0.00319	No Message
N-3.60	C308	Pilote 100	50	Check	0.044	B.2.4.5-8	28.4	0.00279	0.00319	No Message
N-3.60	C309	Pilote 100	0	Check	0.044	B.2.4.5-8	28.4	0.00274	0.00345	No Message
N-3.60	C309	Pilote 100	25	Check	0.043	B.2.4.5-8	28.4	0.00274	0.00345	No Message
N-3.60	C309	Pilote 100	50	Check	0.042	B.2.4.5-8	28.4	0.00274	0.00345	No Message
N-3.60	C310	Pilote 100	0	Check	0.042	B.2.4.5-8	28.4	0.00353	0.00438	No Message
N-3.60	C310	Pilote 100	25	Check	0.042	B.2.4.5-8	28.4	0.00353	0.00438	No Message
N-3.60	C310	Pilote 100	50	Check	0.041	B.2.4.5-8	28.4	0.00353	0.00438	No Message
N-3.60	C311	Pilote 100	0	Check	0.041	B.2.4.5-8	28.4	0.00449	0.00541	No Message
N-3.60	C311	Pilote 100	25	Check	0.04	B.2.4.5-8	28.4	0.00449	0.00541	No Message
N-3.60	C311	Pilote 100	50	Check	0.04	B.2.4.5-8	28.4	0.00449	0.00541	No Message
N-3.60	C312	Pilote 100	0	Check	0.04	B.2.4.5-8	28.4	0.00538	0.00632	No Message
N-3.60	C312	Pilote 100	25	Check	0.04	B.2.4.5-8	28.4	0.00538	0.00632	No Message
N-3.60	C312	Pilote 100	50	Check	0.04	B.2.4.5-8	28.4	0.00538	0.00632	No Message
N-3.60	C313	Pilote 100	0	Check	0.04	B.2.4.5-8	28.4	0.00613	0.00706	No Message
N-3.60	C313	Pilote 100	25	Check	0.041	B.2.4.5-8	28.4	0.00613	0.00706	No Message
N-3.60	C313	Pilote 100	50	Check	0.042	B.2.4.5-8	28.4	0.00613	0.00706	No Message
N-3.60	C314	Pilote 100	0	Check	0.042	B.2.4.5-8	28.4	0.00671	0.00756	No Message
N-3.60	C314	Pilote 100	25	Check	0.043	B.2.4.5-8	28.4	0.00671	0.00756	No Message
N-3.60	C314	Pilote 100	50	Check	0.047	B.2.4.7-8	28.4	0.00671	0.00756	No Message
N-3.60	C315	Pilote 100	0	Check	0.047	B.2.4.7-8	28.4	0.00705	0.00774	No Message
N-3.60	C315	Pilote 100	25	Check	0.057	B.2.4.7-8	28.4	0.00705	0.00774	No Message
N-3.60	C315	Pilote 100	50	Check	0.069	B.2.4.7-8	28.4	0.00705	0.00774	No Message
N-3.60	C316	Pilote 100	0	Check	0.069	B.2.4.7-8	28.4	0.00708	0.00756	No Message
N-3.60	C316	Pilote 100	25	Check	0.082	B.2.4.7-8	28.4	0.00708	0.00756	No Message
N-3.60	C316	Pilote 100	50	Check	0.095	B.2.4.7-8	28.4	0.00708	0.00756	No Message
N-3.60	C317	Pilote 100	0	Check	0.095	B.2.4.7-8	28.4	0.00672	0.00759	No Message
N-3.60	C317	Pilote 100	25	Check	0.108	B.2.4.7-8	28.4	0.00672	0.00759	No Message
N-3.60	C317	Pilote 100	50	Check	0.121	B.2.4.7-8	28.4	0.00672	0.00759	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C318	Pilote 100	0	Check	0.121	B.2.4.7-8	28.4	0.00589	0.0072	No Message
N-3.60	C318	Pilote 100	25	Check	0.132	B.2.4.7-8	28.4	0.00589	0.0072	No Message
N-3.60	C318	Pilote 100	50	Check	0.144	B.2.4.7-8	28.4	0.00589	0.0072	No Message
N-3.60	C319	Pilote 100	0	Check	0.144	B.2.4.7-8	28.4	0.00453	0.00634	No Message
N-3.60	C319	Pilote 100	25	Check	0.153	B.2.4.7-8	28.4	0.00453	0.00634	No Message
N-3.60	C319	Pilote 100	50	Check	0.162	B.2.4.7-8	28.4	0.00453	0.00634	No Message
N-3.60	C320	Pilote 100	0	Check	0.162	B.2.4.7-8	28.4	0.0026	0.00497	No Message
N-3.60	C320	Pilote 100	25	Check	0.168	B.2.4.7-8	28.4	0.0026	0.00497	No Message
N-3.60	C320	Pilote 100	50	Check	0.174	B.2.4.7-8	28.4	0.0026	0.00497	No Message
N-3.60	C321	Pilote 100	0	Check	0.174	B.2.4.7-8	28.4	0.00088	0.00164	No Message
N-3.60	C321	Pilote 100	25	Check	0.178	B.2.4.7-8	28.4	0.00088	0.00164	No Message
N-3.60	C321	Pilote 100	50	Check	0.183	B.2.4.7-8	28.4	0.00088	0.00164	No Message
N-3.60	C322	Pilote 100	0	Check	0.183	B.2.4.7-8	28.4	0.00353	0.00695	No Message
N-3.60	C322	Pilote 100	25	Check	0.184	B.2.4.7-8	28.4	0.00353	0.00695	No Message
N-3.60	C322	Pilote 100	50	Check	0.185	B.2.4.7-8	28.4	0.00353	0.00695	No Message
N-3.60	C323	Pilote 100	0	Check	0.185	B.2.4.7-8	28.4	0.00738	0.01174	No Message
N-3.60	C323	Pilote 100	25	Check	0.181	B.2.4.7-8	28.4	0.00738	0.01174	No Message
N-3.60	C323	Pilote 100	50	Check	0.177	B.2.4.7-8	28.4	0.00738	0.01174	No Message
N-3.60	C324	Pilote 100	0	Check	0.177	B.2.4.7-8	28.4	0.0118	0.01714	No Message
N-3.60	C324	Pilote 100	25	Check	0.167	B.2.4.7-8	28.4	0.0118	0.01714	No Message
N-3.60	C324	Pilote 100	50	Check	0.158	B.2.4.7-8	28.4	0.0118	0.01714	No Message
N-3.60	C325	Pilote 100	0	Check	0.158	B.2.4.7-8	28.4	0.01666	0.02299	No Message
N-3.60	C325	Pilote 100	25	Check	0.142	B.2.4.7-8	28.4	0.01666	0.02299	No Message
N-3.60	C325	Pilote 100	50	Check	0.127	B.2.4.7-8	28.4	0.01666	0.02299	No Message
N-3.60	C326	P100R	0	Check	0.075	B.2.4.7-8	51	0.0218	0.02907	No Message
N-3.60	C326	P100R	25	Check	0.063	B.2.4.7-8	51	0.0218	0.02907	No Message
N-3.60	C326	P100R	50	Check	0.054	B.2.4.7-8	51	0.0218	0.02907	No Message
N-3.60	C327	Pilote 100	0	Check	0.093	B.2.4.7-8	28.4	0.02698	0.03513	No Message
N-3.60	C327	Pilote 100	25	Check	0.106	B.2.4.7-8	28.4	0.02698	0.03513	No Message
N-3.60	C327	Pilote 100	50	Check	0.147	B.2.4.7-8	28.4	0.02698	0.03513	No Message
N-3.60	C328	Pilote 100	0	Check	0.147	B.2.4.7-8	28.4	0.03193	0.04082	No Message
N-3.60	C328	Pilote 100	25	Check	0.199	B.2.4.7-8	28.4	0.03193	0.04082	No Message
N-3.60	C328	Pilote 100	50	Check	0.251	B.2.4.7-8	28.4	0.03193	0.04082	No Message
N-3.60	C329	Pilote 100	0	Check	0.251	B.2.4.7-8	28.4	0.0364	0.04587	No Message
N-3.60	C329	Pilote 100	25	Check	0.311	B.2.4.7-8	28.4	0.0364	0.04587	No Message
N-3.60	C329	Pilote 100	50	Check	0.371	B.2.4.5-8	28.4	0.0364	0.04587	No Message
N-3.60	C330	Pilote 100	0	Check	0.371	B.2.4.5-8	28.4	0.04011	0.05	No Message
N-3.60	C330	Pilote 100	25	Check	0.44	B.2.4.5-8	28.4	0.04011	0.05	No Message
N-3.60	C330	Pilote 100	50	Check	0.51	B.2.4.5-8	28.4	0.04011	0.05	No Message
N-3.60	C331	Pilote 100	0	Check	0.51	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C331	Pilote 100	0.1	Check	0.51	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C331	Pilote 100	0.2	Check	0.511	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C332	Pilote 100	0	Check	0.05	B.2.4.5-8	28.4	0.0076	0.00411	No Message
N-3.60	C332	Pilote 100	25	Check	0.049	B.2.4.5-8	28.4	0.0076	0.00411	No Message
N-3.60	C332	Pilote 100	50	Check	0.049	B.2.4.5-8	28.4	0.0076	0.00411	No Message
N-3.60	C333	Pilote 100	0	Check	0.049	B.2.4.5-8	28.4	0.0048	0.00307	No Message
N-3.60	C333	Pilote 100	25	Check	0.048	B.2.4.5-8	28.4	0.0048	0.00307	No Message
N-3.60	C333	Pilote 100	50	Check	0.047	B.2.4.5-8	28.4	0.0048	0.00307	No Message
N-3.60	C334	Pilote 100	0	Check	0.047	B.2.4.5-8	28.4	0.00308	0.00303	No Message
N-3.60	C334	Pilote 100	25	Check	0.047	B.2.4.5-8	28.4	0.00308	0.00303	No Message
N-3.60	C334	Pilote 100	50	Check	0.046	B.2.4.5-8	28.4	0.00308	0.00303	No Message
N-3.60	C335	Pilote 100	0	Check	0.046	B.2.4.5-8	28.4	0.00277	0.00383	No Message
N-3.60	C335	Pilote 100	25	Check	0.045	B.2.4.5-8	28.4	0.00277	0.00383	No Message
N-3.60	C335	Pilote 100	50	Check	0.044	B.2.4.5-8	28.4	0.00277	0.00383	No Message
N-3.60	C336	Pilote 100	0	Check	0.044	B.2.4.5-8	28.4	0.00351	0.00491	No Message
N-3.60	C336	Pilote 100	25	Check	0.044	B.2.4.5-8	28.4	0.00351	0.00491	No Message
N-3.60	C336	Pilote 100	50	Check	0.043	B.2.4.5-8	28.4	0.00351	0.00491	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C337	Pilote 100	0	Check	0.043	B.2.4.5-8	28.4	0.00447	0.00599	No Message
N-3.60	C337	Pilote 100	25	Check	0.042	B.2.4.5-8	28.4	0.00447	0.00599	No Message
N-3.60	C337	Pilote 100	50	Check	0.042	B.2.4.5-8	28.4	0.00447	0.00599	No Message
N-3.60	C338	Pilote 100	0	Check	0.042	B.2.4.5-8	28.4	0.00535	0.00695	No Message
N-3.60	C338	Pilote 100	25	Check	0.042	B.2.4.5-8	28.4	0.00535	0.00695	No Message
N-3.60	C338	Pilote 100	50	Check	0.042	B.2.4.5-8	28.4	0.00535	0.00695	No Message
N-3.60	C339	Pilote 100	0	Check	0.042	B.2.4.5-8	28.4	0.00607	0.00774	No Message
N-3.60	C339	Pilote 100	25	Check	0.043	B.2.4.5-8	28.4	0.00607	0.00774	No Message
N-3.60	C339	Pilote 100	50	Check	0.044	B.2.4.5-8	28.4	0.00607	0.00774	No Message
N-3.60	C340	Pilote 100	0	Check	0.044	B.2.4.5-8	28.4	0.0066	0.00827	No Message
N-3.60	C340	Pilote 100	25	Check	0.046	B.2.4.5-8	28.4	0.0066	0.00827	No Message
N-3.60	C340	Pilote 100	50	Check	0.05	B.2.4.7-8	28.4	0.0066	0.00827	No Message
N-3.60	C341	Pilote 100	0	Check	0.05	B.2.4.7-8	28.4	0.0069	0.00845	No Message
N-3.60	C341	Pilote 100	25	Check	0.061	B.2.4.7-8	28.4	0.0069	0.00845	No Message
N-3.60	C341	Pilote 100	50	Check	0.072	B.2.4.7-8	28.4	0.0069	0.00845	No Message
N-3.60	C342	Pilote 100	0	Check	0.072	B.2.4.7-8	28.4	0.00696	0.00819	No Message
N-3.60	C342	Pilote 100	25	Check	0.086	B.2.4.7-8	28.4	0.00696	0.00819	No Message
N-3.60	C342	Pilote 100	50	Check	0.1	B.2.4.7-8	28.4	0.00696	0.00819	No Message
N-3.60	C343	Pilote 100	0	Check	0.1	B.2.4.7-8	28.4	0.00666	0.00817	No Message
N-3.60	C343	Pilote 100	25	Check	0.113	B.2.4.7-8	28.4	0.00666	0.00817	No Message
N-3.60	C343	Pilote 100	50	Check	0.126	B.2.4.7-8	28.4	0.00666	0.00817	No Message
N-3.60	C344	Pilote 100	0	Check	0.126	B.2.4.7-8	28.4	0.00591	0.00776	No Message
N-3.60	C344	Pilote 100	25	Check	0.138	B.2.4.7-8	28.4	0.00591	0.00776	No Message
N-3.60	C344	Pilote 100	50	Check	0.15	B.2.4.7-8	28.4	0.00591	0.00776	No Message
N-3.60	C345	Pilote 100	0	Check	0.15	B.2.4.7-8	28.4	0.00465	0.00686	No Message
N-3.60	C345	Pilote 100	25	Check	0.159	B.2.4.7-8	28.4	0.00465	0.00686	No Message
N-3.60	C345	Pilote 100	50	Check	0.168	B.2.4.7-8	28.4	0.00465	0.00686	No Message
N-3.60	C346	Pilote 100	0	Check	0.168	B.2.4.7-8	28.4	0.00286	0.00547	No Message
N-3.60	C346	Pilote 100	25	Check	0.174	B.2.4.7-8	28.4	0.00286	0.00547	No Message
N-3.60	C346	Pilote 100	50	Check	0.18	B.2.4.7-8	28.4	0.00286	0.00547	No Message
N-3.60	C347	Pilote 100	0	Check	0.18	B.2.4.7-8	28.4	0.00122	0.00371	No Message
N-3.60	C347	Pilote 100	25	Check	0.183	B.2.4.7-8	28.4	0.00122	0.00371	No Message
N-3.60	C347	Pilote 100	50	Check	0.189	B.2.4.7-8	28.4	0.00122	0.00371	No Message
N-3.60	C348	Pilote 100	0	Check	0.189	B.2.4.7-8	28.4	0.00395	0.00834	No Message
N-3.60	C348	Pilote 100	25	Check	0.19	B.2.4.7-8	28.4	0.00395	0.00834	No Message
N-3.60	C348	Pilote 100	50	Check	0.191	B.2.4.7-8	28.4	0.00395	0.00834	No Message
N-3.60	C349	Pilote 100	0	Check	0.191	B.2.4.7-8	28.4	0.00778	0.01371	No Message
N-3.60	C349	Pilote 100	25	Check	0.186	B.2.4.7-8	28.4	0.00778	0.01371	No Message
N-3.60	C349	Pilote 100	50	Check	0.182	B.2.4.7-8	28.4	0.00778	0.01371	No Message
N-3.60	C350	Pilote 100	0	Check	0.182	B.2.4.7-8	28.4	0.01216	0.01974	No Message
N-3.60	C350	Pilote 100	25	Check	0.173	B.2.4.7-8	28.4	0.01216	0.01974	No Message
N-3.60	C350	Pilote 100	50	Check	0.163	B.2.4.7-8	28.4	0.01216	0.01974	No Message
N-3.60	C351	Pilote 100	0	Check	0.163	B.2.4.7-8	28.4	0.01695	0.02625	No Message
N-3.60	C351	Pilote 100	25	Check	0.147	B.2.4.7-8	28.4	0.01695	0.02625	No Message
N-3.60	C351	Pilote 100	50	Check	0.132	B.2.4.7-8	28.4	0.01695	0.02625	No Message
N-3.60	C352	Pilote 100	0	Check	0.132	B.2.4.7-8	28.4	0.022	0.033	No Message
N-3.60	C352	Pilote 100	25	Check	0.111	B.2.4.7-8	28.4	0.022	0.033	No Message
N-3.60	C352	Pilote 100	50	Check	0.099	B.2.4.7-4	28.4	0.022	0.033	No Message
N-3.60	C353	Pilote 100	0	Check	0.099	B.2.4.7-4	28.4	0.02707	0.0397	No Message
N-3.60	C353	Pilote 100	25	Check	0.12	B.2.4.7-8	28.4	0.02707	0.0397	No Message
N-3.60	C353	Pilote 100	50	Check	0.167	B.2.4.7-8	28.4	0.02707	0.0397	No Message
N-3.60	C354	Pilote 100	0	Check	0.167	B.2.4.7-8	28.4	0.0319	0.04598	No Message
N-3.60	C354	Pilote 100	25	Check	0.224	B.2.4.7-8	28.4	0.0319	0.04598	No Message
N-3.60	C354	Pilote 100	50	Check	0.281	B.2.4.7-8	28.4	0.0319	0.04598	No Message
N-3.60	C355	Pilote 100	0	Check	0.281	B.2.4.7-8	28.4	0.03625	0.05155	No Message
N-3.60	C355	Pilote 100	25	Check	0.346	B.2.4.7-8	28.4	0.03625	0.05155	No Message
N-3.60	C355	Pilote 100	50	Check	0.415	B.2.4.5-8	28.4	0.03625	0.05155	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C356	Pilote 100	0	Check	0.415	B.2.4.5-8	28.4	0.03984	0.05608	No Message
N-3.60	C356	Pilote 100	25	Check	0.491	B.2.4.5-8	28.4	0.03984	0.05608	No Message
N-3.60	C356	Pilote 100	50	Check	0.567	B.2.4.5-8	28.4	0.03984	0.05608	No Message
N-3.60	C357	Pilote 100	0	Check	0.567	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C357	Pilote 100	0.1	Check	0.568	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C357	Pilote 100	0.2	Check	0.568	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C358	Pilote 100	0	Check	0.036	B.2.4.2-1	28.4	0.00143	0.00448	No Message
N-3.60	C358	Pilote 100	25	Check	0.036	B.2.4.2-1	28.4	0.00143	0.00448	No Message
N-3.60	C358	Pilote 100	50	Check	0.035	B.2.4.2-1	28.4	0.00143	0.00448	No Message
N-3.60	C359	Pilote 100	0	Check	0.035	B.2.4.2-1	28.4	0.00142	0.00332	No Message
N-3.60	C359	Pilote 100	25	Check	0.034	B.2.4.2-1	28.4	0.00142	0.00332	No Message
N-3.60	C359	Pilote 100	50	Check	0.033	B.2.4.2-1	28.4	0.00142	0.00332	No Message
N-3.60	C360	Pilote 100	0	Check	0.033	B.2.4.2-1	28.4	0.00198	0.00338	No Message
N-3.60	C360	Pilote 100	25	Check	0.033	B.2.4.2-1	28.4	0.00198	0.00338	No Message
N-3.60	C360	Pilote 100	50	Check	0.032	B.2.4.2-1	28.4	0.00198	0.00338	No Message
N-3.60	C361	Pilote 100	0	Check	0.032	B.2.4.2-1	28.4	0.00276	0.00435	No Message
N-3.60	C361	Pilote 100	25	Check	0.031	B.2.4.2-1	28.4	0.00276	0.00435	No Message
N-3.60	C361	Pilote 100	50	Check	0.031	B.2.4.2-1	28.4	0.00276	0.00435	No Message
N-3.60	C362	Pilote 100	0	Check	0.031	B.2.4.2-1	28.4	0.00361	0.0056	No Message
N-3.60	C362	Pilote 100	25	Check	0.03	B.2.4.2-1	28.4	0.00361	0.0056	No Message
N-3.60	C362	Pilote 100	50	Check	0.029	B.2.4.2-1	28.4	0.00361	0.0056	No Message
N-3.60	C363	Pilote 100	0	Check	0.029	B.2.4.2-1	28.4	0.00443	0.00685	No Message
N-3.60	C363	Pilote 100	25	Check	0.029	B.2.4.5-8	28.4	0.00443	0.00685	No Message
N-3.60	C363	Pilote 100	50	Check	0.03	B.2.4.5-8	28.4	0.00443	0.00685	No Message
N-3.60	C364	Pilote 100	0	Check	0.03	B.2.4.5-8	28.4	0.00519	0.00798	No Message
N-3.60	C364	Pilote 100	25	Check	0.032	B.2.4.5-8	28.4	0.00519	0.00798	No Message
N-3.60	C364	Pilote 100	50	Check	0.033	B.2.4.5-8	28.4	0.00519	0.00798	No Message
N-3.60	C365	Pilote 100	0	Check	0.033	B.2.4.5-8	28.4	0.00584	0.00891	No Message
N-3.60	C365	Pilote 100	25	Check	0.036	B.2.4.5-8	28.4	0.00584	0.00891	No Message
N-3.60	C365	Pilote 100	50	Check	0.041	B.2.4.7-8	28.4	0.00584	0.00891	No Message
N-3.60	C366	Pilote 100	0	Check	0.041	B.2.4.7-8	28.4	0.00631	0.00954	No Message
N-3.60	C366	Pilote 100	25	Check	0.053	B.2.4.7-8	28.4	0.00631	0.00954	No Message
N-3.60	C366	Pilote 100	50	Check	0.065	B.2.4.7-8	28.4	0.00631	0.00954	No Message
N-3.60	C367	Pilote 100	0	Check	0.065	B.2.4.7-8	28.4	0.00653	0.00978	No Message
N-3.60	C367	Pilote 100	25	Check	0.079	B.2.4.7-8	28.4	0.00653	0.00978	No Message
N-3.60	C367	Pilote 100	50	Check	0.095	B.2.4.7-8	28.4	0.00653	0.00978	No Message
N-3.60	C368	Pilote 100	0	Check	0.095	B.2.4.7-8	28.4	0.00671	0.00982	No Message
N-3.60	C368	Pilote 100	25	Check	0.11	B.2.4.7-8	28.4	0.00671	0.00982	No Message
N-3.60	C368	Pilote 100	50	Check	0.126	B.2.4.7-8	28.4	0.00671	0.00982	No Message
N-3.60	C369	Pilote 100	0	Check	0.126	B.2.4.7-8	28.4	0.00659	0.0095	No Message
N-3.60	C369	Pilote 100	25	Check	0.14	B.2.4.7-8	28.4	0.00659	0.0095	No Message
N-3.60	C369	Pilote 100	50	Check	0.155	B.2.4.7-8	28.4	0.00659	0.0095	No Message
N-3.60	C370	Pilote 100	0	Check	0.155	B.2.4.7-8	28.4	0.00605	0.00855	No Message
N-3.60	C370	Pilote 100	25	Check	0.167	B.2.4.7-8	28.4	0.00605	0.00855	No Message
N-3.60	C370	Pilote 100	50	Check	0.18	B.2.4.7-8	28.4	0.00605	0.00855	No Message
N-3.60	C371	Pilote 100	0	Check	0.18	B.2.4.7-8	28.4	0.00504	0.00687	No Message
N-3.60	C371	Pilote 100	25	Check	0.19	B.2.4.7-8	28.4	0.00504	0.00687	No Message
N-3.60	C371	Pilote 100	50	Check	0.199	B.2.4.7-8	28.4	0.00504	0.00687	No Message
N-3.60	C372	Pilote 100	0	Check	0.199	B.2.4.7-8	28.4	0.00352	0.0044	No Message
N-3.60	C372	Pilote 100	25	Check	0.206	B.2.4.7-8	28.4	0.00352	0.0044	No Message
N-3.60	C372	Pilote 100	50	Check	0.214	B.2.4.7-8	28.4	0.00352	0.0044	No Message
N-3.60	C373	Pilote 100	0	Check	0.214	B.2.4.7-8	28.4	0.00081	0.00134	No Message
N-3.60	C373	Pilote 100	25	Check	0.218	B.2.4.7-8	28.4	0.00081	0.00134	No Message
N-3.60	C373	Pilote 100	50	Check	0.222	B.2.4.7-8	28.4	0.00081	0.00134	No Message
N-3.60	C374	Pilote 100	0	Check	0.222	B.2.4.7-8	28.4	0.00505	0.00875	No Message
N-3.60	C374	Pilote 100	25	Check	0.221	B.2.4.7-8	28.4	0.00505	0.00875	No Message
N-3.60	C374	Pilote 100	50	Check	0.219	B.2.4.7-8	28.4	0.00505	0.00875	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C375	Pilote 100	0	Check	0.219	B.2.4.7-8	28.4	0.00903	0.01497	No Message
N-3.60	C375	Pilote 100	25	Check	0.211	B.2.4.7-8	28.4	0.00903	0.01497	No Message
N-3.60	C375	Pilote 100	50	Check	0.203	B.2.4.7-8	28.4	0.00903	0.01497	No Message
N-3.60	C376	Pilote 100	0	Check	0.203	B.2.4.7-8	28.4	0.01352	0.02192	No Message
N-3.60	C376	Pilote 100	25	Check	0.187	B.2.4.7-8	28.4	0.01352	0.02192	No Message
N-3.60	C376	Pilote 100	50	Check	0.171	B.2.4.7-8	28.4	0.01352	0.02192	No Message
N-3.60	C377	Pilote 100	0	Check	0.171	B.2.4.7-8	28.4	0.0184	0.02943	No Message
N-3.60	C377	Pilote 100	25	Check	0.147	B.2.4.7-8	28.4	0.0184	0.02943	No Message
N-3.60	C377	Pilote 100	50	Check	0.123	B.2.4.7-8	28.4	0.0184	0.02943	No Message
N-3.60	C378	Pilote 100	0	Check	0.123	B.2.4.7-8	28.4	0.02349	0.03722	No Message
N-3.60	C378	Pilote 100	25	Check	0.097	B.2.4.7-4	28.4	0.02349	0.03722	No Message
N-3.60	C378	Pilote 100	50	Check	0.09	B.2.4.7-4	28.4	0.02349	0.03722	No Message
N-3.60	C379	Pilote 100	0	Check	0.09	B.2.4.7-4	28.4	0.02858	0.04497	No Message
N-3.60	C379	Pilote 100	25	Check	0.135	B.2.4.7-8	28.4	0.02858	0.04497	No Message
N-3.60	C379	Pilote 100	50	Check	0.192	B.2.4.5-8	28.4	0.02858	0.04497	No Message
N-3.60	C380	Pilote 100	0	Check	0.192	B.2.4.5-8	28.4	0.03338	0.05224	No Message
N-3.60	C380	Pilote 100	25	Check	0.263	B.2.4.5-8	28.4	0.03338	0.05224	No Message
N-3.60	C380	Pilote 100	50	Check	0.334	B.2.4.5-8	28.4	0.03338	0.05224	No Message
N-3.60	C381	Pilote 100	0	Check	0.334	B.2.4.5-8	28.4	0.03767	0.05871	No Message
N-3.60	C381	Pilote 100	25	Check	0.413	B.2.4.5-8	28.4	0.03767	0.05871	No Message
N-3.60	C381	Pilote 100	50	Check	0.491	B.2.4.5-8	28.4	0.03767	0.05871	No Message
N-3.60	C382	Pilote 100	0	Check	0.491	B.2.4.5-8	28.4	0.04119	0.06398	No Message
N-3.60	C382	Pilote 100	25	Check	0.577	B.2.4.5-8	28.4	0.04119	0.06398	No Message
N-3.60	C382	Pilote 100	50	Check	0.663	B.2.4.5-8	28.4	0.04119	0.06398	No Message
N-3.60	C383	Pilote 100	0	Check	0.663	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C383	Pilote 100	0.1	Check	0.663	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C383	Pilote 100	0.2	Check	0.663	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C384	Pilote 100	0	Check	0.025	B.2.4.5-8	28.4	0.00258	0.00441	No Message
N-3.60	C384	Pilote 100	25	Check	0.024	B.2.4.5-8	28.4	0.00258	0.00441	No Message
N-3.60	C384	Pilote 100	50	Check	0.024	B.2.4.5-8	28.4	0.00258	0.00441	No Message
N-3.60	C385	Pilote 100	0	Check	0.024	B.2.4.5-8	28.4	0.00188	0.00311	No Message
N-3.60	C385	Pilote 100	25	Check	0.023	B.2.4.5-8	28.4	0.00188	0.00311	No Message
N-3.60	C385	Pilote 100	50	Check	0.022	B.2.4.5-8	28.4	0.00188	0.00311	No Message
N-3.60	C386	Pilote 100	0	Check	0.022	B.2.4.5-8	28.4	0.00212	0.00305	No Message
N-3.60	C386	Pilote 100	25	Check	0.022	B.2.4.5-8	28.4	0.00212	0.00305	No Message
N-3.60	C386	Pilote 100	50	Check	0.021	B.2.4.5-8	28.4	0.00212	0.00305	No Message
N-3.60	C387	Pilote 100	0	Check	0.021	B.2.4.5-8	28.4	0.00291	0.00395	No Message
N-3.60	C387	Pilote 100	25	Check	0.02	B.2.4.5-8	28.4	0.00291	0.00395	No Message
N-3.60	C387	Pilote 100	50	Check	0.02	B.2.4.5-8	28.4	0.00291	0.00395	No Message
N-3.60	C388	Pilote 100	0	Check	0.02	B.2.4.5-8	28.4	0.00381	0.00517	No Message
N-3.60	C388	Pilote 100	25	Check	0.021	B.2.4.5-8	28.4	0.00381	0.00517	No Message
N-3.60	C388	Pilote 100	50	Check	0.021	B.2.4.5-8	28.4	0.00381	0.00517	No Message
N-3.60	C389	Pilote 100	0	Check	0.021	B.2.4.5-8	28.4	0.00469	0.00642	No Message
N-3.60	C389	Pilote 100	25	Check	0.022	B.2.4.5-8	28.4	0.00469	0.00642	No Message
N-3.60	C389	Pilote 100	50	Check	0.025	B.2.4.7-8	28.4	0.00469	0.00642	No Message
N-3.60	C390	Pilote 100	0	Check	0.025	B.2.4.7-8	28.4	0.00552	0.00759	No Message
N-3.60	C390	Pilote 100	25	Check	0.034	B.2.4.7-8	28.4	0.00552	0.00759	No Message
N-3.60	C390	Pilote 100	50	Check	0.046	B.2.4.7-8	28.4	0.00552	0.00759	No Message
N-3.60	C391	Pilote 100	0	Check	0.046	B.2.4.7-8	28.4	0.00622	0.0086	No Message
N-3.60	C391	Pilote 100	25	Check	0.06	B.2.4.7-8	28.4	0.00622	0.0086	No Message
N-3.60	C391	Pilote 100	50	Check	0.074	B.2.4.7-8	28.4	0.00622	0.0086	No Message
N-3.60	C392	Pilote 100	0	Check	0.074	B.2.4.7-8	28.4	0.00673	0.00937	No Message
N-3.60	C392	Pilote 100	25	Check	0.089	B.2.4.7-8	28.4	0.00673	0.00937	No Message
N-3.60	C392	Pilote 100	50	Check	0.104	B.2.4.7-8	28.4	0.00673	0.00937	No Message
N-3.60	C393	Pilote 100	0	Check	0.104	B.2.4.7-8	28.4	0.00703	0.00979	No Message
N-3.60	C393	Pilote 100	25	Check	0.12	B.2.4.7-8	28.4	0.00703	0.00979	No Message
N-3.60	C393	Pilote 100	50	Check	0.136	B.2.4.7-8	28.4	0.00703	0.00979	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C394	Pilote 100	0	Check	0.136	B.2.4.7-8	28.4	0.00716	0.00976	No Message
N-3.60	C394	Pilote 100	25	Check	0.152	B.2.4.7-8	28.4	0.00716	0.00976	No Message
N-3.60	C394	Pilote 100	50	Check	0.168	B.2.4.7-8	28.4	0.00716	0.00976	No Message
N-3.60	C395	Pilote 100	0	Check	0.168	B.2.4.7-8	28.4	0.0069	0.00914	No Message
N-3.60	C395	Pilote 100	25	Check	0.183	B.2.4.7-8	28.4	0.0069	0.00914	No Message
N-3.60	C395	Pilote 100	50	Check	0.198	B.2.4.7-8	28.4	0.0069	0.00914	No Message
N-3.60	C396	Pilote 100	0	Check	0.198	B.2.4.7-8	28.4	0.00618	0.00783	No Message
N-3.60	C396	Pilote 100	25	Check	0.212	B.2.4.7-8	28.4	0.00618	0.00783	No Message
N-3.60	C396	Pilote 100	50	Check	0.225	B.2.4.7-8	28.4	0.00618	0.00783	No Message
N-3.60	C397	Pilote 100	0	Check	0.225	B.2.4.7-8	28.4	0.00492	0.00573	No Message
N-3.60	C397	Pilote 100	25	Check	0.236	B.2.4.7-8	28.4	0.00492	0.00573	No Message
N-3.60	C397	Pilote 100	50	Check	0.247	B.2.4.7-8	28.4	0.00492	0.00573	No Message
N-3.60	C398	Pilote 100	0	Check	0.247	B.2.4.7-8	28.4	0.00308	0.00282	No Message
N-3.60	C398	Pilote 100	25	Check	0.254	B.2.4.7-8	28.4	0.00308	0.00282	No Message
N-3.60	C398	Pilote 100	50	Check	0.262	B.2.4.7-8	28.4	0.00308	0.00282	No Message
N-3.60	C399	Pilote 100	0	Check	0.262	B.2.4.7-8	28.4	0.0013	0.00134	No Message
N-3.60	C399	Pilote 100	25	Check	0.264	B.2.4.7-8	28.4	0.0013	0.00134	No Message
N-3.60	C399	Pilote 100	50	Check	0.266	B.2.4.7-8	28.4	0.0013	0.00134	No Message
N-3.60	C400	Pilote 100	0	Check	0.266	B.2.4.7-8	28.4	0.00507	0.00609	No Message
N-3.60	C400	Pilote 100	25	Check	0.262	B.2.4.7-8	28.4	0.00507	0.00609	No Message
N-3.60	C400	Pilote 100	50	Check	0.259	B.2.4.7-8	28.4	0.00507	0.00609	No Message
N-3.60	C401	Pilote 100	0	Check	0.259	B.2.4.7-8	28.4	0.00928	0.01182	No Message
N-3.60	C401	Pilote 100	25	Check	0.247	B.2.4.7-8	28.4	0.00928	0.01182	No Message
N-3.60	C401	Pilote 100	50	Check	0.237	B.2.4.7-8	28.4	0.00928	0.01182	No Message
N-3.60	C402	Pilote 100	0	Check	0.237	B.2.4.7-8	28.4	0.01403	0.01831	No Message
N-3.60	C402	Pilote 100	25	Check	0.217	B.2.4.7-8	28.4	0.01403	0.01831	No Message
N-3.60	C402	Pilote 100	50	Check	0.199	B.2.4.7-8	28.4	0.01403	0.01831	No Message
N-3.60	C403	Pilote 100	0	Check	0.199	B.2.4.7-8	28.4	0.0192	0.02539	No Message
N-3.60	C403	Pilote 100	25	Check	0.173	B.2.4.7-8	28.4	0.0192	0.02539	No Message
N-3.60	C403	Pilote 100	50	Check	0.147	B.2.4.7-8	28.4	0.0192	0.02539	No Message
N-3.60	C404	Pilote 100	0	Check	0.147	B.2.4.7-8	28.4	0.0246	0.03282	No Message
N-3.60	C404	Pilote 100	25	Check	0.116	B.2.4.5-8	28.4	0.0246	0.03282	No Message
N-3.60	C404	Pilote 100	50	Check	0.116	B.2.4.1	28.4	0.0246	0.03282	No Message
N-3.60	C405	Pilote 100	0	Check	0.116	B.2.4.1	28.4	0.03	0.04028	No Message
N-3.60	C405	Pilote 100	25	Check	0.156	B.2.4.5-8	28.4	0.03	0.04028	No Message
N-3.60	C405	Pilote 100	50	Check	0.211	B.2.4.5-8	28.4	0.03	0.04028	No Message
N-3.60	C406	Pilote 100	0	Check	0.211	B.2.4.5-8	28.4	0.03511	0.04736	No Message
N-3.60	C406	Pilote 100	25	Check	0.276	B.2.4.5-8	28.4	0.03511	0.04736	No Message
N-3.60	C406	Pilote 100	50	Check	0.342	B.2.4.5-8	28.4	0.03511	0.04736	No Message
N-3.60	C407	Pilote 100	0	Check	0.342	B.2.4.5-8	28.4	0.03968	0.05373	No Message
N-3.60	C407	Pilote 100	25	Check	0.418	B.2.4.5-8	28.4	0.03968	0.05373	No Message
N-3.60	C407	Pilote 100	50	Check	0.493	B.2.4.5-8	28.4	0.03968	0.05373	No Message
N-3.60	C408	Pilote 100	0	Check	0.493	B.2.4.5-8	28.4	0.04344	0.05899	No Message
N-3.60	C408	Pilote 100	25	Check	0.576	B.2.4.5-8	28.4	0.04344	0.05899	No Message
N-3.60	C408	Pilote 100	50	Check	0.659	B.2.4.5-8	28.4	0.04344	0.05899	No Message
N-3.60	C409	Pilote 100	0	Check	0.659	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C409	Pilote 100	0.1	Check	0.659	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C409	Pilote 100	0.2	Check	0.659	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C410	Pilote 100	0	Check	0.025	B.2.4.2-1	28.4	0.00135	0.00498	No Message
N-3.60	C410	Pilote 100	25	Check	0.024	B.2.4.2-1	28.4	0.00135	0.00498	No Message
N-3.60	C410	Pilote 100	50	Check	0.024	B.2.4.2-1	28.4	0.00135	0.00498	No Message
N-3.60	C411	Pilote 100	0	Check	0.024	B.2.4.2-1	28.4	0.00139	0.00353	No Message
N-3.60	C411	Pilote 100	25	Check	0.023	B.2.4.2-1	28.4	0.00139	0.00353	No Message
N-3.60	C411	Pilote 100	50	Check	0.022	B.2.4.2-1	28.4	0.00139	0.00353	No Message
N-3.60	C412	Pilote 100	0	Check	0.022	B.2.4.2-1	28.4	0.00204	0.00337	No Message
N-3.60	C412	Pilote 100	25	Check	0.022	B.2.4.2-1	28.4	0.00204	0.00337	No Message
N-3.60	C412	Pilote 100	50	Check	0.021	B.2.4.2-1	28.4	0.00204	0.00337	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
			cm							
N-3.60	C413	Pilote 100	0	Check	0.021	B.2.4.2-1	28.4	0.00285	0.00426	No Message
N-3.60	C413	Pilote 100	25	Check	0.02	B.2.4.5-8	28.4	0.00285	0.00426	No Message
N-3.60	C413	Pilote 100	50	Check	0.02	B.2.4.5-8	28.4	0.00285	0.00426	No Message
N-3.60	C414	Pilote 100	0	Check	0.02	B.2.4.5-8	28.4	0.00373	0.00551	No Message
N-3.60	C414	Pilote 100	25	Check	0.02	B.2.4.5-8	28.4	0.00373	0.00551	No Message
N-3.60	C414	Pilote 100	50	Check	0.021	B.2.4.5-8	28.4	0.00373	0.00551	No Message
N-3.60	C415	Pilote 100	0	Check	0.021	B.2.4.5-8	28.4	0.0046	0.00677	No Message
N-3.60	C415	Pilote 100	25	Check	0.022	B.2.4.5-8	28.4	0.0046	0.00677	No Message
N-3.60	C415	Pilote 100	50	Check	0.023	B.2.4.5-8	28.4	0.0046	0.00677	No Message
N-3.60	C416	Pilote 100	0	Check	0.023	B.2.4.5-8	28.4	0.00541	0.00793	No Message
N-3.60	C416	Pilote 100	25	Check	0.033	B.2.4.7-8	28.4	0.00541	0.00793	No Message
N-3.60	C416	Pilote 100	50	Check	0.043	B.2.4.7-8	28.4	0.00541	0.00793	No Message
N-3.60	C417	Pilote 100	0	Check	0.043	B.2.4.7-8	28.4	0.0061	0.00889	No Message
N-3.60	C417	Pilote 100	25	Check	0.056	B.2.4.7-8	28.4	0.0061	0.00889	No Message
N-3.60	C417	Pilote 100	50	Check	0.07	B.2.4.7-8	28.4	0.0061	0.00889	No Message
N-3.60	C418	Pilote 100	0	Check	0.07	B.2.4.7-8	28.4	0.00661	0.00957	No Message
N-3.60	C418	Pilote 100	25	Check	0.085	B.2.4.7-8	28.4	0.00661	0.00957	No Message
N-3.60	C418	Pilote 100	50	Check	0.099	B.2.4.7-8	28.4	0.00661	0.00957	No Message
N-3.60	C419	Pilote 100	0	Check	0.099	B.2.4.7-8	28.4	0.00697	0.00987	No Message
N-3.60	C419	Pilote 100	25	Check	0.115	B.2.4.7-8	28.4	0.00697	0.00987	No Message
N-3.60	C419	Pilote 100	50	Check	0.13	B.2.4.7-8	28.4	0.00697	0.00987	No Message
N-3.60	C420	Pilote 100	0	Check	0.13	B.2.4.7-8	28.4	0.00713	0.00976	No Message
N-3.60	C420	Pilote 100	25	Check	0.145	B.2.4.7-8	28.4	0.00713	0.00976	No Message
N-3.60	C420	Pilote 100	50	Check	0.16	B.2.4.7-8	28.4	0.00713	0.00976	No Message
N-3.60	C421	Pilote 100	0	Check	0.16	B.2.4.7-8	28.4	0.00693	0.0093	No Message
N-3.60	C421	Pilote 100	25	Check	0.174	B.2.4.7-8	28.4	0.00693	0.0093	No Message
N-3.60	C421	Pilote 100	50	Check	0.189	B.2.4.7-8	28.4	0.00693	0.0093	No Message
N-3.60	C422	Pilote 100	0	Check	0.189	B.2.4.7-8	28.4	0.00629	0.00819	No Message
N-3.60	C422	Pilote 100	25	Check	0.201	B.2.4.7-8	28.4	0.00629	0.00819	No Message
N-3.60	C422	Pilote 100	50	Check	0.214	B.2.4.7-8	28.4	0.00629	0.00819	No Message
N-3.60	C423	Pilote 100	0	Check	0.214	B.2.4.7-8	28.4	0.00511	0.00632	No Message
N-3.60	C423	Pilote 100	25	Check	0.224	B.2.4.7-8	28.4	0.00511	0.00632	No Message
N-3.60	C423	Pilote 100	50	Check	0.234	B.2.4.7-8	28.4	0.00511	0.00632	No Message
N-3.60	C424	Pilote 100	0	Check	0.234	B.2.4.7-8	28.4	0.00338	0.00365	No Message
N-3.60	C424	Pilote 100	25	Check	0.24	B.2.4.7-8	28.4	0.00338	0.00365	No Message
N-3.60	C424	Pilote 100	50	Check	0.246	B.2.4.7-8	28.4	0.00338	0.00365	No Message
N-3.60	C425	Pilote 100	0	Check	0.246	B.2.4.7-8	28.4	0.0006	0.00284	No Message
N-3.60	C425	Pilote 100	25	Check	0.249	B.2.4.7-8	28.4	0.0006	0.00284	No Message
N-3.60	C425	Pilote 100	50	Check	0.253	B.2.4.7-8	28.4	0.0006	0.00284	No Message
N-3.60	C426	Pilote 100	0	Check	0.253	B.2.4.7-8	28.4	0.00493	0.00799	No Message
N-3.60	C426	Pilote 100	25	Check	0.25	B.2.4.7-8	28.4	0.00493	0.00799	No Message
N-3.60	C426	Pilote 100	50	Check	0.248	B.2.4.7-8	28.4	0.00493	0.00799	No Message
N-3.60	C427	Pilote 100	0	Check	0.248	B.2.4.7-8	28.4	0.00905	0.0141	No Message
N-3.60	C427	Pilote 100	25	Check	0.238	B.2.4.7-8	28.4	0.00905	0.0141	No Message
N-3.60	C427	Pilote 100	50	Check	0.229	B.2.4.7-8	28.4	0.00905	0.0141	No Message
N-3.60	C428	Pilote 100	0	Check	0.229	B.2.4.7-8	28.4	0.01371	0.02096	No Message
N-3.60	C428	Pilote 100	25	Check	0.212	B.2.4.7-8	28.4	0.01371	0.02096	No Message
N-3.60	C428	Pilote 100	50	Check	0.196	B.2.4.7-8	28.4	0.01371	0.02096	No Message
N-3.60	C429	Pilote 100	0	Check	0.196	B.2.4.7-8	28.4	0.01879	0.02839	No Message
N-3.60	C429	Pilote 100	25	Check	0.173	B.2.4.7-8	28.4	0.01879	0.02839	No Message
N-3.60	C429	Pilote 100	50	Check	0.155	B.2.4.5-3	28.4	0.01879	0.02839	No Message
N-3.60	C430	Pilote 100	0	Check	0.155	B.2.4.5-3	28.4	0.02409	0.03612	No Message
N-3.60	C430	Pilote 100	25	Check	0.136	B.2.4.5-3	28.4	0.02409	0.03612	No Message
N-3.60	C430	Pilote 100	50	Check	0.137	B.2.4.1	28.4	0.02409	0.03612	No Message
N-3.60	C431	Pilote 100	0	Check	0.137	B.2.4.1	28.4	0.02941	0.04384	No Message
N-3.60	C431	Pilote 100	25	Check	0.178	B.2.4.5-8	28.4	0.02941	0.04384	No Message
N-3.60	C431	Pilote 100	50	Check	0.234	B.2.4.5-8	28.4	0.02941	0.04384	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C432	Pilote 100	0	Check	0.234	B.2.4.5-8	28.4	0.03443	0.05111	No Message
N-3.60	C432	Pilote 100	25	Check	0.299	B.2.4.5-8	28.4	0.03443	0.05111	No Message
N-3.60	C432	Pilote 100	50	Check	0.366	B.2.4.5-8	28.4	0.03443	0.05111	No Message
N-3.60	C433	Pilote 100	0	Check	0.366	B.2.4.5-8	28.4	0.03893	0.05759	No Message
N-3.60	C433	Pilote 100	25	Check	0.442	B.2.4.5-8	28.4	0.03893	0.05759	No Message
N-3.60	C433	Pilote 100	50	Check	0.517	B.2.4.5-8	28.4	0.03893	0.05759	No Message
N-3.60	C434	Pilote 100	0	Check	0.517	B.2.4.5-8	28.4	0.04264	0.0629	No Message
N-3.60	C434	Pilote 100	25	Check	0.599	B.2.4.5-8	28.4	0.04264	0.0629	No Message
N-3.60	C434	Pilote 100	50	Check	0.681	B.2.4.5-8	28.4	0.04264	0.0629	No Message
N-3.60	C435	Pilote 100	0	Check	0.681	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C435	Pilote 100	0.1	Check	0.681	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C435	Pilote 100	0.2	Check	0.682	B.2.4.5-8	28.4	0	0	No Message
N-3.60	C436	Pilote 100	0	Check	0.033	B.2.4.5-3	28.4	0.00228	0.00388	No Message
N-3.60	C436	Pilote 100	25	Check	0.032	B.2.4.5-3	28.4	0.00228	0.00388	No Message
N-3.60	C436	Pilote 100	50	Check	0.031	B.2.4.5-3	28.4	0.00228	0.00388	No Message
N-3.60	C437	Pilote 100	0	Check	0.031	B.2.4.5-3	28.4	0.00238	0.00303	No Message
N-3.60	C437	Pilote 100	25	Check	0.031	B.2.4.5-3	28.4	0.00238	0.00303	No Message
N-3.60	C437	Pilote 100	50	Check	0.03	B.2.4.5-3	28.4	0.00238	0.00303	No Message
N-3.60	C438	Pilote 100	0	Check	0.03	B.2.4.5-3	28.4	0.00344	0.00332	No Message
N-3.60	C438	Pilote 100	25	Check	0.029	B.2.4.5-3	28.4	0.00344	0.00332	No Message
N-3.60	C438	Pilote 100	50	Check	0.028	B.2.4.5-3	28.4	0.00344	0.00332	No Message
N-3.60	C439	Pilote 100	0	Check	0.028	B.2.4.5-3	28.4	0.00462	0.00438	No Message
N-3.60	C439	Pilote 100	25	Check	0.028	B.2.4.5-3	28.4	0.00462	0.00438	No Message
N-3.60	C439	Pilote 100	50	Check	0.027	B.2.4.5-3	28.4	0.00462	0.00438	No Message
N-3.60	C440	Pilote 100	0	Check	0.027	B.2.4.5-3	28.4	0.00583	0.00567	No Message
N-3.60	C440	Pilote 100	25	Check	0.027	B.2.4.5-3	28.4	0.00583	0.00567	No Message
N-3.60	C440	Pilote 100	50	Check	0.027	B.2.4.5-3	28.4	0.00583	0.00567	No Message
N-3.60	C441	Pilote 100	0	Check	0.027	B.2.4.5-3	28.4	0.00694	0.00695	No Message
N-3.60	C441	Pilote 100	25	Check	0.028	B.2.4.5-3	28.4	0.00694	0.00695	No Message
N-3.60	C441	Pilote 100	50	Check	0.029	B.2.4.5-3	28.4	0.00694	0.00695	No Message
N-3.60	C442	Pilote 100	0	Check	0.029	B.2.4.5-3	28.4	0.00787	0.00812	No Message
N-3.60	C442	Pilote 100	25	Check	0.031	B.2.4.5-3	28.4	0.00787	0.00812	No Message
N-3.60	C442	Pilote 100	50	Check	0.034	B.2.4.5-8	28.4	0.00787	0.00812	No Message
N-3.60	C443	Pilote 100	0	Check	0.034	B.2.4.5-8	28.4	0.00856	0.0091	No Message
N-3.60	C443	Pilote 100	25	Check	0.045	B.2.4.7-4	28.4	0.00856	0.0091	No Message
N-3.60	C443	Pilote 100	50	Check	0.057	B.2.4.7-4	28.4	0.00856	0.0091	No Message
N-3.60	C444	Pilote 100	0	Check	0.057	B.2.4.7-4	28.4	0.0089	0.0098	No Message
N-3.60	C444	Pilote 100	25	Check	0.071	B.2.4.7-4	28.4	0.0089	0.0098	No Message
N-3.60	C444	Pilote 100	50	Check	0.086	B.2.4.7-4	28.4	0.0089	0.0098	No Message
N-3.60	C445	Pilote 100	0	Check	0.086	B.2.4.7-4	28.4	0.00879	0.0101	No Message
N-3.60	C445	Pilote 100	25	Check	0.101	B.2.4.7-4	28.4	0.00879	0.0101	No Message
N-3.60	C445	Pilote 100	50	Check	0.115	B.2.4.7-4	28.4	0.00879	0.0101	No Message
N-3.60	C446	Pilote 100	0	Check	0.115	B.2.4.7-4	28.4	0.00813	0.00988	No Message
N-3.60	C446	Pilote 100	25	Check	0.13	B.2.4.7-8	28.4	0.00813	0.00988	No Message
N-3.60	C446	Pilote 100	50	Check	0.146	B.2.4.7-8	28.4	0.00813	0.00988	No Message
N-3.60	C447	Pilote 100	0	Check	0.146	B.2.4.7-8	28.4	0.00716	0.00902	No Message
N-3.60	C447	Pilote 100	25	Check	0.16	B.2.4.7-8	28.4	0.00716	0.00902	No Message
N-3.60	C447	Pilote 100	50	Check	0.175	B.2.4.7-8	28.4	0.00716	0.00902	No Message
N-3.60	C448	Pilote 100	0	Check	0.175	B.2.4.7-8	28.4	0.00676	0.00815	No Message
N-3.60	C448	Pilote 100	25	Check	0.187	B.2.4.7-8	28.4	0.00676	0.00815	No Message
N-3.60	C448	Pilote 100	50	Check	0.199	B.2.4.7-8	28.4	0.00676	0.00815	No Message
N-3.60	C449	Pilote 100	0	Check	0.199	B.2.4.7-8	28.4	0.00591	0.0066	No Message
N-3.60	C449	Pilote 100	25	Check	0.209	B.2.4.7-8	28.4	0.00591	0.0066	No Message
N-3.60	C449	Pilote 100	50	Check	0.218	B.2.4.7-8	28.4	0.00591	0.0066	No Message
N-3.60	C450	Pilote 100	0	Check	0.218	B.2.4.7-8	28.4	0.00195	0.0043	No Message
N-3.60	C450	Pilote 100	25	Check	0.223	B.2.4.7-8	28.4	0.00195	0.0043	No Message
N-3.60	C450	Pilote 100	50	Check	0.227	B.2.4.7-8	28.4	0.00195	0.0043	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C451	Pilote 100	0	Check	0.227	B.2.4.7-8	28.4	0.00307	0.00132	No Message
N-3.60	C451	Pilote 100	25	Check	0.227	B.2.4.7-8	28.4	0.00307	0.00132	No Message
N-3.60	C451	Pilote 100	50	Check	0.226	B.2.4.7-8	28.4	0.00307	0.00132	No Message
N-3.60	C452	Pilote 100	0	Check	0.226	B.2.4.7-8	28.4	0.01272	0.00833	No Message
N-3.60	C452	Pilote 100	25	Check	0.222	B.2.4.7-8	28.4	0.01272	0.00833	No Message
N-3.60	C452	Pilote 100	50	Check	0.222	B.2.4.7-8	28.4	0.01272	0.00833	No Message
N-3.60	C453	Pilote 100	0	Check	0.222	B.2.4.7-8	28.4	0.01921	0.01463	No Message
N-3.60	C453	Pilote 100	25	Check	0.215	B.2.4.7-8	28.4	0.01921	0.01463	No Message
N-3.60	C453	Pilote 100	50	Check	0.209	B.2.4.7-8	28.4	0.01921	0.01463	No Message
N-3.60	C454	Pilote 100	0	Check	0.209	B.2.4.7-8	28.4	0.02632	0.02168	No Message
N-3.60	C454	Pilote 100	25	Check	0.195	B.2.4.7-8	28.4	0.02632	0.02168	No Message
N-3.60	C454	Pilote 100	50	Check	0.182	B.2.4.7-8	28.4	0.02632	0.02168	No Message
N-3.60	C455	Pilote 100	0	Check	0.182	B.2.4.7-8	28.4	0.03386	0.02932	No Message
N-3.60	C455	Pilote 100	25	Check	0.164	B.2.4.5-8	28.4	0.03386	0.02932	No Message
N-3.60	C455	Pilote 100	50	Check	0.155	B.2.4.5-8	28.4	0.03386	0.02932	No Message
N-3.60	C456	P100R	0	Check	0.092	B.2.4.5-8	51	0.04154	0.03727	No Message
N-3.60	C456	P100R	25	Check	0.089	B.2.4.5-8	51	0.04154	0.03727	No Message
N-3.60	C456	P100R	50	Check	0.113	B.2.4.5-3	51	0.04154	0.03727	No Message
N-3.60	C457	P100R	0	Check	0.113	B.2.4.5-3	51	0.04905	0.0452	No Message
N-3.60	C457	P100R	25	Check	0.153	B.2.4.5-3	51	0.04905	0.0452	No Message
N-3.60	C457	P100R	50	Check	0.193	B.2.4.5-3	51	0.04905	0.0452	No Message
N-3.60	C458	P100R	0	Check	0.193	B.2.4.5-3	51	0.05595	0.05266	No Message
N-3.60	C458	P100R	25	Check	0.24	B.2.4.5-3	51	0.05595	0.05266	No Message
N-3.60	C458	P100R	50	Check	0.286	B.2.4.5-3	51	0.05595	0.05266	No Message
N-3.60	C459	P100R	0	Check	0.286	B.2.4.5-3	51	0.06196	0.05931	No Message
N-3.60	C459	P100R	25	Check	0.337	B.2.4.5-3	51	0.06196	0.05931	No Message
N-3.60	C459	P100R	50	Check	0.388	B.2.4.5-3	51	0.06196	0.05931	No Message
N-3.60	C460	P100R	0	Check	0.388	B.2.4.5-3	51	0.06674	0.06475	No Message
N-3.60	C460	P100R	25	Check	0.443	B.2.4.5-3	51	0.06674	0.06475	No Message
N-3.60	C460	P100R	50	Check	0.498	B.2.4.5-3	51	0.06674	0.06475	No Message
N-3.60	C461	P100R	0	Check	0.498	B.2.4.5-3	51	0	0	No Message
N-3.60	C461	P100R	0.1	Check	0.499	B.2.4.5-3	51	0	0	No Message
N-3.60	C461	P100R	0.2	Check	0.499	B.2.4.5-3	51	0	0	No Message
N-3.60	C462	Pilote 100	0	Check	0.031	B.2.4.2-1	28.4	0.00371	0.00291	No Message
N-3.60	C462	Pilote 100	25	Check	0.03	B.2.4.2-1	28.4	0.00371	0.00291	No Message
N-3.60	C462	Pilote 100	50	Check	0.029	B.2.4.2-1	28.4	0.00371	0.00291	No Message
N-3.60	C463	Pilote 100	0	Check	0.029	B.2.4.2-1	28.4	0.00314	0.00215	No Message
N-3.60	C463	Pilote 100	25	Check	0.029	B.2.4.2-1	28.4	0.00314	0.00215	No Message
N-3.60	C463	Pilote 100	50	Check	0.028	B.2.4.2-1	28.4	0.00314	0.00215	No Message
N-3.60	C464	Pilote 100	0	Check	0.028	B.2.4.2-1	28.4	0.0036	0.00238	No Message
N-3.60	C464	Pilote 100	25	Check	0.027	B.2.4.2-1	28.4	0.0036	0.00238	No Message
N-3.60	C464	Pilote 100	50	Check	0.027	B.2.4.2-1	28.4	0.0036	0.00238	No Message
N-3.60	C465	Pilote 100	0	Check	0.027	B.2.4.2-1	28.4	0.00468	0.00323	No Message
N-3.60	C465	Pilote 100	25	Check	0.026	B.2.4.2-1	28.4	0.00468	0.00323	No Message
N-3.60	C465	Pilote 100	50	Check	0.025	B.2.4.2-1	28.4	0.00468	0.00323	No Message
N-3.60	C466	Pilote 100	0	Check	0.025	B.2.4.2-1	28.4	0.0059	0.00428	No Message
N-3.60	C466	Pilote 100	25	Check	0.024	B.2.4.2-1	28.4	0.0059	0.00428	No Message
N-3.60	C466	Pilote 100	50	Check	0.024	B.2.4.5-3	28.4	0.0059	0.00428	No Message
N-3.60	C467	Pilote 100	0	Check	0.024	B.2.4.5-3	28.4	0.00704	0.00535	No Message
N-3.60	C467	Pilote 100	25	Check	0.025	B.2.4.5-3	28.4	0.00704	0.00535	No Message
N-3.60	C467	Pilote 100	50	Check	0.027	B.2.4.5-3	28.4	0.00704	0.00535	No Message
N-3.60	C468	Pilote 100	0	Check	0.027	B.2.4.5-3	28.4	0.008	0.00636	No Message
N-3.60	C468	Pilote 100	25	Check	0.029	B.2.4.5-3	28.4	0.008	0.00636	No Message
N-3.60	C468	Pilote 100	50	Check	0.032	B.2.4.5-3	28.4	0.008	0.00636	No Message
N-3.60	C469	Pilote 100	0	Check	0.032	B.2.4.5-3	28.4	0.00871	0.00726	No Message
N-3.60	C469	Pilote 100	25	Check	0.039	B.2.4.7-4	28.4	0.00871	0.00726	No Message
N-3.60	C469	Pilote 100	50	Check	0.05	B.2.4.7-4	28.4	0.00871	0.00726	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C470	Pilote 100	0	Check	0.05	B.2.4.7-4	28.4	0.00906	0.00797	No Message
N-3.60	C470	Pilote 100	25	Check	0.063	B.2.4.7-4	28.4	0.00906	0.00797	No Message
N-3.60	C470	Pilote 100	50	Check	0.077	B.2.4.7-4	28.4	0.00906	0.00797	No Message
N-3.60	C471	Pilote 100	0	Check	0.077	B.2.4.7-4	28.4	0.00896	0.00841	No Message
N-3.60	C471	Pilote 100	25	Check	0.092	B.2.4.7-4	28.4	0.00896	0.00841	No Message
N-3.60	C471	Pilote 100	50	Check	0.106	B.2.4.7-4	28.4	0.00896	0.00841	No Message
N-3.60	C472	Pilote 100	0	Check	0.106	B.2.4.7-4	28.4	0.0083	0.00847	No Message
N-3.60	C472	Pilote 100	25	Check	0.12	B.2.4.7-4	28.4	0.0083	0.00847	No Message
N-3.60	C472	Pilote 100	50	Check	0.135	B.2.4.7-4	28.4	0.0083	0.00847	No Message
N-3.60	C473	Pilote 100	0	Check	0.135	B.2.4.7-4	28.4	0.00813	0.00806	No Message
N-3.60	C473	Pilote 100	25	Check	0.148	B.2.4.7-4	28.4	0.00813	0.00806	No Message
N-3.60	C473	Pilote 100	50	Check	0.161	B.2.4.7-4	28.4	0.00813	0.00806	No Message
N-3.60	C474	Pilote 100	0	Check	0.161	B.2.4.7-4	28.4	0.00769	0.00708	No Message
N-3.60	C474	Pilote 100	25	Check	0.171	B.2.4.7-4	28.4	0.00769	0.00708	No Message
N-3.60	C474	Pilote 100	50	Check	0.182	B.2.4.7-4	28.4	0.00769	0.00708	No Message
N-3.60	C475	Pilote 100	0	Check	0.182	B.2.4.7-4	28.4	0.00672	0.00544	No Message
N-3.60	C475	Pilote 100	25	Check	0.19	B.2.4.7-4	28.4	0.00672	0.00544	No Message
N-3.60	C475	Pilote 100	50	Check	0.198	B.2.4.7-4	28.4	0.00672	0.00544	No Message
N-3.60	C476	Pilote 100	0	Check	0.198	B.2.4.7-4	28.4	0.00196	0.00312	No Message
N-3.60	C476	Pilote 100	25	Check	0.201	B.2.4.7-4	28.4	0.00196	0.00312	No Message
N-3.60	C476	Pilote 100	50	Check	0.204	B.2.4.7-4	28.4	0.00196	0.00312	No Message
N-3.60	C477	Pilote 100	0	Check	0.204	B.2.4.7-4	28.4	0.00276	0.00105	No Message
N-3.60	C477	Pilote 100	25	Check	0.205	B.2.4.7-8	28.4	0.00276	0.00105	No Message
N-3.60	C477	Pilote 100	50	Check	0.209	B.2.4.7-8	28.4	0.00276	0.00105	No Message
N-3.60	C478	Pilote 100	0	Check	0.209	B.2.4.7-8	28.4	0.01273	0.00436	No Message
N-3.60	C478	Pilote 100	25	Check	0.209	B.2.4.7-8	28.4	0.01273	0.00436	No Message
N-3.60	C478	Pilote 100	50	Check	0.208	B.2.4.7-4	28.4	0.01273	0.00436	No Message
N-3.60	C479	Pilote 100	0	Check	0.208	B.2.4.7-4	28.4	0.0193	0.00904	No Message
N-3.60	C479	Pilote 100	25	Check	0.203	B.2.4.7-4	28.4	0.0193	0.00904	No Message
N-3.60	C479	Pilote 100	50	Check	0.197	B.2.4.7-4	28.4	0.0193	0.00904	No Message
N-3.60	C480	Pilote 100	0	Check	0.197	B.2.4.7-4	28.4	0.0265	0.01441	No Message
N-3.60	C480	Pilote 100	25	Check	0.185	B.2.4.7-4	28.4	0.0265	0.01441	No Message
N-3.60	C480	Pilote 100	50	Check	0.173	B.2.4.5-3	28.4	0.0265	0.01441	No Message
N-3.60	C481	Pilote 100	0	Check	0.173	B.2.4.5-3	28.4	0.03413	0.02031	No Message
N-3.60	C481	Pilote 100	25	Check	0.16	B.2.4.5-3	28.4	0.03413	0.02031	No Message
N-3.60	C481	Pilote 100	50	Check	0.148	B.2.4.5-3	28.4	0.03413	0.02031	No Message
N-3.60	C482	Pilote 100	0	Check	0.148	B.2.4.5-3	28.4	0.04192	0.02654	No Message
N-3.60	C482	Pilote 100	25	Check	0.146	B.2.4.1	28.4	0.04192	0.02654	No Message
N-3.60	C482	Pilote 100	50	Check	0.178	B.2.4.5-3	28.4	0.04192	0.02654	No Message
N-3.60	C483	Pilote 100	0	Check	0.178	B.2.4.5-3	28.4	0.04954	0.03284	No Message
N-3.60	C483	Pilote 100	25	Check	0.24	B.2.4.5-3	28.4	0.04954	0.03284	No Message
N-3.60	C483	Pilote 100	50	Check	0.303	B.2.4.5-3	28.4	0.04954	0.03284	No Message
N-3.60	C484	Pilote 100	0	Check	0.303	B.2.4.5-3	28.4	0.05654	0.03884	No Message
N-3.60	C484	Pilote 100	25	Check	0.376	B.2.4.5-3	28.4	0.05654	0.03884	No Message
N-3.60	C484	Pilote 100	50	Check	0.448	B.2.4.5-3	28.4	0.05654	0.03884	No Message
N-3.60	C485	Pilote 100	0	Check	0.448	B.2.4.5-3	28.4	0.06265	0.04426	No Message
N-3.60	C485	Pilote 100	25	Check	0.528	B.2.4.5-3	28.4	0.06265	0.04426	No Message
N-3.60	C485	Pilote 100	50	Check	0.608	B.2.4.5-3	28.4	0.06265	0.04426	No Message
N-3.60	C486	Pilote 100	0	Check	0.608	B.2.4.5-3	28.4	0.0675	0.04877	No Message
N-3.60	C486	Pilote 100	25	Check	0.695	B.2.4.5-3	28.4	0.0675	0.04877	No Message
N-3.60	C486	Pilote 100	50	Check	0.784	B.2.4.5-3	28.4	0.0675	0.04877	No Message
N-3.60	C487	Pilote 100	0	Check	0.784	B.2.4.5-3	28.4	0	0	No Message
N-3.60	C487	Pilote 100	0.1	Check	0.784	B.2.4.5-3	28.4	0	0	No Message
N-3.60	C487	Pilote 100	0.2	Check	0.784	B.2.4.5-3	28.4	0	0	No Message
N-3.60	C488	Pilote 100	0	Check	0.027	B.2.4.2-1	28.4	0.00226	0.00327	No Message
N-3.60	C488	Pilote 100	25	Check	0.026	B.2.4.2-1	28.4	0.00226	0.00327	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C491	Pilote 100	0	Check	0.022	B.2.4.2-1	28.4	0.004	0.003	No Message
N-3.60	C491	Pilote 100	25	Check	0.022	B.2.4.2-1	28.4	0.004	0.003	No Message
N-3.60	C491	Pilote 100	50	Check	0.021	B.2.4.2-1	28.4	0.004	0.003	No Message
N-3.60	C492	Pilote 100	0	Check	0.021	B.2.4.2-1	28.4	0.006	0.004	No Message
N-3.60	C492	Pilote 100	25	Check	0.02	B.2.4.2-1	28.4	0.006	0.004	No Message
N-3.60	C492	Pilote 100	50	Check	0.021	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C493	Pilote 100	0	Check	0.021	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C493	Pilote 100	25	Check	0.022	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C493	Pilote 100	50	Check	0.024	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C494	Pilote 100	0	Check	0.024	B.2.4.5-3	28.4	0.008	0.006	No Message
N-3.60	C494	Pilote 100	25	Check	0.027	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C494	Pilote 100	50	Check	0.037	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C495	Pilote 100	0	Check	0.037	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C495	Pilote 100	25	Check	0.048	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C495	Pilote 100	50	Check	0.062	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C496	Pilote 100	0	Check	0.062	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C496	Pilote 100	25	Check	0.076	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C496	Pilote 100	50	Check	0.09	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C497	Pilote 100	0	Check	0.09	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C497	Pilote 100	25	Check	0.105	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C497	Pilote 100	50	Check	0.119	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C498	Pilote 100	0	Check	0.119	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C498	Pilote 100	25	Check	0.133	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C498	Pilote 100	50	Check	0.147	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C499	Pilote 100	0	Check	0.147	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C499	Pilote 100	25	Check	0.159	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C499	Pilote 100	50	Check	0.172	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C500	Pilote 100	0	Check	0.172	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C500	Pilote 100	25	Check	0.183	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C500	Pilote 100	50	Check	0.193	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C501	Pilote 100	0	Check	0.193	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C501	Pilote 100	25	Check	0.201	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C501	Pilote 100	50	Check	0.209	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C502	Pilote 100	0	Check	0.209	B.2.4.7-4	28.4	0.002	0.005	No Message
N-3.60	C502	Pilote 100	25	Check	0.218	B.2.4.7-4	28.4	0.002	0.005	No Message
N-3.60	C502	Pilote 100	50	Check	0.227	B.2.4.7-4	28.4	0.002	0.005	No Message
N-3.60	C503	Pilote 100	0	Check	0.227	B.2.4.7-4	28.4	0.003	0.003	No Message
N-3.60	C503	Pilote 100	25	Check	0.233	B.2.4.7-4	28.4	0.003	0.003	No Message
N-3.60	C503	Pilote 100	50	Check	0.238	B.2.4.7-4	28.4	0.003	0.003	No Message
N-3.60	C504	Pilote 100	0	Check	0.238	B.2.4.7-4	28.4	0.012	0.006	No Message
N-3.60	C504	Pilote 100	25	Check	0.239	B.2.4.7-4	28.4	0.012	0.006	No Message
N-3.60	C504	Pilote 100	50	Check	0.24	B.2.4.7-4	28.4	0.012	0.006	No Message
N-3.60	C505	Pilote 100	0	Check	0.24	B.2.4.7-4	28.4	0.018	0.011	No Message
N-3.60	C505	Pilote 100	25	Check	0.235	B.2.4.7-4	28.4	0.018	0.011	No Message
N-3.60	C505	Pilote 100	50	Check	0.234	B.2.4.5-3	28.4	0.018	0.011	No Message
N-3.60	C506	Pilote 100	0	Check	0.234	B.2.4.5-3	28.4	0.025	0.016	No Message
N-3.60	C506	Pilote 100	25	Check	0.229	B.2.4.5-3	28.4	0.025	0.016	No Message
N-3.60	C506	Pilote 100	50	Check	0.224	B.2.4.5-3	28.4	0.025	0.016	No Message
N-3.60	C507	Pilote 100	0	Check	0.224	B.2.4.5-3	28.4	0.032	0.021	No Message
N-3.60	C507	Pilote 100	25	Check	0.213	B.2.4.5-3	28.4	0.032	0.021	No Message
N-3.60	C507	Pilote 100	50	Check	0.205	B.2.4.5-8	28.4	0.032	0.021	No Message
N-3.60	C508	Pilote 100	0	Check	0.205	B.2.4.5-8	28.4	0.040	0.027	No Message
N-3.60	C508	Pilote 100	25	Check	0.196	B.2.4.5-8	28.4	0.040	0.027	No Message
N-3.60	C508	Pilote 100	50	Check	0.215	B.2.4.5-3	28.4	0.040	0.027	No Message
N-3.60	C509	Pilote 100	0	Check	0.215	B.2.4.5-3	28.4	0.047	0.033	No Message
N-3.60	C509	Pilote 100	25	Check	0.269	B.2.4.5-3	28.4	0.047	0.033	No Message
N-3.60	C509	Pilote 100	50	Check	0.328	B.2.4.5-3	28.4	0.047	0.033	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C510	Pilote 100	0	Check	0.328	B.2.4.5-3	28.4	0.053	0.038	No Message
N-3.60	C510	Pilote 100	25	Check	0.398	B.2.4.5-3	28.4	0.053	0.038	No Message
N-3.60	C510	Pilote 100	50	Check	0.469	B.2.4.5-3	28.4	0.053	0.038	No Message
N-3.60	C511	Pilote 100	0	Check	0.469	B.2.4.5-3	28.4	0.059	0.043	No Message
N-3.60	C511	Pilote 100	25	Check	0.548	B.2.4.5-3	28.4	0.059	0.043	No Message
N-3.60	C511	Pilote 100	50	Check	0.627	B.2.4.5-3	28.4	0.059	0.043	No Message
N-3.60	C512	Pilote 100	0	Check	0.627	B.2.4.5-3	28.4	0.064	0.047	No Message
N-3.60	C512	Pilote 100	25	Check	0.712	B.2.4.5-3	28.4	0.064	0.047	No Message
N-3.60	C512	Pilote 100	50	Check	0.798	B.2.4.5-3	28.4	0.064	0.047	No Message
N-3.60	C513	Pilote 100	0	Check	0.798	B.2.4.5-3	28.4	0.000	0.000	No Message
N-3.60	C513	Pilote 100	0.1	Check	0.798	B.2.4.5-3	28.4	0.000	0.000	No Message
N-3.60	C513	Pilote 100	0.2	Check	0.799	B.2.4.5-3	28.4	0.000	0.000	No Message
N-3.60	C540	Pilote 100	0	Check	0.022	B.2.4.5-3	28.4	0.009	0.005	No Message
N-3.60	C540	Pilote 100	25	Check	0.021	B.2.4.5-3	28.4	0.009	0.005	No Message
N-3.60	C540	Pilote 100	50	Check	0.021	B.2.4.5-3	28.4	0.009	0.005	No Message
N-3.60	C541	Pilote 100	0	Check	0.021	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C541	Pilote 100	25	Check	0.029	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C541	Pilote 100	50	Check	0.039	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C542	Pilote 100	0	Check	0.039	B.2.4.7-4	28.4	0.004	0.004	No Message
N-3.60	C542	Pilote 100	25	Check	0.047	B.2.4.7-4	28.4	0.004	0.004	No Message
N-3.60	C542	Pilote 100	50	Check	0.055	B.2.4.7-4	28.4	0.004	0.004	No Message
N-3.60	C543	Pilote 100	0	Check	0.055	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C543	Pilote 100	25	Check	0.062	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C543	Pilote 100	50	Check	0.069	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C544	Pilote 100	0	Check	0.069	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C544	Pilote 100	25	Check	0.077	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C544	Pilote 100	50	Check	0.085	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C545	Pilote 100	0	Check	0.085	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C545	Pilote 100	25	Check	0.094	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C545	Pilote 100	50	Check	0.103	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C546	Pilote 100	0	Check	0.103	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C546	Pilote 100	25	Check	0.114	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C546	Pilote 100	50	Check	0.125	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C547	Pilote 100	0	Check	0.125	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C547	Pilote 100	25	Check	0.138	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C547	Pilote 100	50	Check	0.151	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C548	Pilote 100	0	Check	0.151	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C548	Pilote 100	25	Check	0.165	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C548	Pilote 100	50	Check	0.179	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C549	Pilote 100	0	Check	0.179	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C549	Pilote 100	25	Check	0.194	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C549	Pilote 100	50	Check	0.209	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C550	Pilote 100	0	Check	0.209	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C550	Pilote 100	25	Check	0.223	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C550	Pilote 100	50	Check	0.238	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C551	Pilote 100	0	Check	0.238	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C551	Pilote 100	25	Check	0.252	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C551	Pilote 100	50	Check	0.267	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C552	Pilote 100	0	Check	0.267	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C552	Pilote 100	25	Check	0.282	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C552	Pilote 100	50	Check	0.297	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C553	Pilote 100	0	Check	0.297	B.2.4.5-3	28.4	0.009	0.007	No Message
N-3.60	C553	Pilote 100	25	Check	0.309	B.2.4.5-3	28.4	0.009	0.007	No Message
N-3.60	C553	Pilote 100	50	Check	0.322	B.2.4.5-3	28.4	0.009	0.007	No Message
N-3.60	C554	Pilote 100	0	Check	0.322	B.2.4.5-3	28.4	0.008	0.007	No Message
N-3.60	C554	Pilote 100	25	Check	0.332	B.2.4.5-3	28.4	0.008	0.007	No Message
N-3.60	C554	Pilote 100	50	Check	0.342	B.2.4.5-3	28.4	0.008	0.007	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C555	Pilote 100	0	Check	0.342	B.2.4.5-3	28.4	0.006	0.006	No Message
N-3.60	C555	Pilote 100	25	Check	0.349	B.2.4.5-3	28.4	0.006	0.006	No Message
N-3.60	C555	Pilote 100	50	Check	0.355	B.2.4.5-3	28.4	0.006	0.006	No Message
N-3.60	C556	Pilote 100	0	Check	0.355	B.2.4.5-3	28.4	0.006	0.013	No Message
N-3.60	C556	Pilote 100	25	Check	0.36	B.2.4.5-3	28.4	0.006	0.013	No Message
N-3.60	C556	Pilote 100	50	Check	0.37	B.2.4.5-3	28.4	0.006	0.013	No Message
N-3.60	C557	Pilote 100	0	Check	0.37	B.2.4.5-3	28.4	0.012	0.019	No Message
N-3.60	C557	Pilote 100	25	Check	0.376	B.2.4.5-3	28.4	0.012	0.019	No Message
N-3.60	C557	Pilote 100	50	Check	0.382	B.2.4.5-3	28.4	0.012	0.019	No Message
N-3.60	C558	Pilote 100	0	Check	0.382	B.2.4.5-3	28.4	0.016	0.025	No Message
N-3.60	C558	Pilote 100	25	Check	0.385	B.2.4.5-3	28.4	0.016	0.025	No Message
N-3.60	C558	Pilote 100	50	Check	0.388	B.2.4.5-3	28.4	0.016	0.025	No Message
N-3.60	C559	Pilote 100	0	Check	0.388	B.2.4.5-3	28.4	0.022	0.032	No Message
N-3.60	C559	Pilote 100	25	Check	0.389	B.2.4.5-3	28.4	0.022	0.032	No Message
N-3.60	C559	Pilote 100	50	Check	0.395	B.2.4.5-3	28.4	0.022	0.032	No Message
N-3.60	C560	Pilote 100	0	Check	0.395	B.2.4.5-3	28.4	0.027	0.039	No Message
N-3.60	C560	Pilote 100	25	Check	0.402	B.2.4.5-3	28.4	0.027	0.039	No Message
N-3.60	C560	Pilote 100	50	Check	0.419	B.2.4.5-3	28.4	0.027	0.039	No Message
N-3.60	C561	Pilote 100	0	Check	0.419	B.2.4.5-3	28.4	0.033	0.046	No Message
N-3.60	C561	Pilote 100	25	Check	0.448	B.2.4.5-3	28.4	0.033	0.046	No Message
N-3.60	C561	Pilote 100	50	Check	0.492	B.2.4.5-3	28.4	0.033	0.046	No Message
N-3.60	C562	Pilote 100	0	Check	0.492	B.2.4.5-3	28.4	0.038	0.053	No Message
N-3.60	C562	Pilote 100	25	Check	0.555	B.2.4.5-3	28.4	0.038	0.053	No Message
N-3.60	C562	Pilote 100	50	Check	0.625	B.2.4.5-3	28.4	0.038	0.053	No Message
N-3.60	C563	Pilote 100	0	Check	0.625	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C563	Pilote 100	25	Check	0.709	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C563	Pilote 100	50	Check	0.794	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C564	Pilote 100	0	Check	0.794	B.2.4.5-3	28.4	0.046	0.064	No Message
N-3.60	C564	Pilote 100	25	Check	0.886	B.2.4.5-3	28.4	0.046	0.064	No Message
N-3.60	C564	Pilote 100	50	Check	0.979	B.2.4.5-3	28.4	0.046	0.064	No Message
N-3.60	C565	Pilote 100	0	Check	0.979	B.2.4.5-3	28.4	0.000	0.629	No Message
N-3.60	C565	Pilote 100	0.1	Check	0.98	B.2.4.5-3	28.4	0.000	0.629	No Message
N-3.60	C565	Pilote 100	0.2	Check	0.98	B.2.4.5-3	28.4	0.000	0.629	No Message
N-3.60	C566	Pilote 100	0	Check	0.017	B.2.4.5-3	28.4	0.004	0.006	No Message
N-3.60	C566	Pilote 100	25	Check	0.016	B.2.4.5-3	28.4	0.004	0.006	No Message
N-3.60	C566	Pilote 100	50	Check	0.015	B.2.4.5-3	28.4	0.004	0.006	No Message
N-3.60	C567	Pilote 100	0	Check	0.015	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C567	Pilote 100	25	Check	0.015	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C567	Pilote 100	50	Check	0.014	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C568	Pilote 100	0	Check	0.014	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C568	Pilote 100	25	Check	0.018	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C568	Pilote 100	50	Check	0.025	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C569	Pilote 100	0	Check	0.025	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C569	Pilote 100	25	Check	0.032	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C569	Pilote 100	50	Check	0.04	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C570	Pilote 100	0	Check	0.04	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C570	Pilote 100	25	Check	0.047	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C570	Pilote 100	50	Check	0.056	B.2.4.7-4	28.4	0.004	0.006	No Message
N-3.60	C571	Pilote 100	0	Check	0.056	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C571	Pilote 100	25	Check	0.065	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C571	Pilote 100	50	Check	0.075	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C572	Pilote 100	0	Check	0.075	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C572	Pilote 100	25	Check	0.087	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C572	Pilote 100	50	Check	0.098	B.2.4.7-4	28.4	0.006	0.008	No Message
N-3.60	C573	Pilote 100	0	Check	0.098	B.2.4.7-4	28.4	0.006	0.009	No Message
N-3.60	C573	Pilote 100	25	Check	0.111	B.2.4.7-4	28.4	0.006	0.009	No Message
N-3.60	C573	Pilote 100	50	Check	0.125	B.2.4.7-4	28.4	0.006	0.009	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C574	Pilote 100	0	Check	0.125	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C574	Pilote 100	25	Check	0.139	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C574	Pilote 100	50	Check	0.155	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C575	Pilote 100	0	Check	0.155	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C575	Pilote 100	25	Check	0.171	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C575	Pilote 100	50	Check	0.188	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C576	Pilote 100	0	Check	0.188	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C576	Pilote 100	25	Check	0.203	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C576	Pilote 100	50	Check	0.219	B.2.4.5-3	28.4	0.007	0.009	No Message
N-3.60	C577	Pilote 100	0	Check	0.219	B.2.4.5-3	28.4	0.009	0.008	No Message
N-3.60	C577	Pilote 100	25	Check	0.233	B.2.4.5-3	28.4	0.009	0.008	No Message
N-3.60	C577	Pilote 100	50	Check	0.248	B.2.4.5-3	28.4	0.009	0.008	No Message
N-3.60	C578	Pilote 100	0	Check	0.248	B.2.4.5-3	28.4	0.010	0.007	No Message
N-3.60	C578	Pilote 100	25	Check	0.26	B.2.4.5-3	28.4	0.010	0.007	No Message
N-3.60	C578	Pilote 100	50	Check	0.272	B.2.4.5-3	28.4	0.010	0.007	No Message
N-3.60	C579	Pilote 100	0	Check	0.272	B.2.4.5-3	28.4	0.010	0.006	No Message
N-3.60	C579	Pilote 100	25	Check	0.28	B.2.4.5-3	28.4	0.010	0.006	No Message
N-3.60	C579	Pilote 100	50	Check	0.289	B.2.4.5-3	28.4	0.010	0.006	No Message
N-3.60	C580	Pilote 100	0	Check	0.289	B.2.4.5-3	28.4	0.011	0.003	No Message
N-3.60	C580	Pilote 100	25	Check	0.295	B.2.4.5-3	28.4	0.011	0.003	No Message
N-3.60	C580	Pilote 100	50	Check	0.307	B.2.4.5-3	28.4	0.011	0.003	No Message
N-3.60	C581	Pilote 100	0	Check	0.307	B.2.4.5-3	28.4	0.009	0.004	No Message
N-3.60	C581	Pilote 100	25	Check	0.317	B.2.4.5-3	28.4	0.009	0.004	No Message
N-3.60	C581	Pilote 100	50	Check	0.328	B.2.4.5-3	28.4	0.009	0.004	No Message
N-3.60	C582	Pilote 100	0	Check	0.328	B.2.4.5-3	28.4	0.005	0.010	No Message
N-3.60	C582	Pilote 100	25	Check	0.337	B.2.4.5-3	28.4	0.005	0.010	No Message
N-3.60	C582	Pilote 100	50	Check	0.349	B.2.4.5-3	28.4	0.005	0.010	No Message
N-3.60	C583	Pilote 100	0	Check	0.349	B.2.4.5-3	28.4	0.007	0.017	No Message
N-3.60	C583	Pilote 100	25	Check	0.36	B.2.4.5-3	28.4	0.007	0.017	No Message
N-3.60	C583	Pilote 100	50	Check	0.373	B.2.4.5-3	28.4	0.007	0.017	No Message
N-3.60	C584	Pilote 100	0	Check	0.373	B.2.4.5-3	28.4	0.006	0.023	No Message
N-3.60	C584	Pilote 100	25	Check	0.384	B.2.4.5-3	28.4	0.006	0.023	No Message
N-3.60	C584	Pilote 100	50	Check	0.395	B.2.4.5-3	28.4	0.006	0.023	No Message
N-3.60	C585	Pilote 100	0	Check	0.395	B.2.4.5-3	28.4	0.017	0.031	No Message
N-3.60	C585	Pilote 100	25	Check	0.403	B.2.4.5-3	28.4	0.017	0.031	No Message
N-3.60	C585	Pilote 100	50	Check	0.413	B.2.4.5-3	28.4	0.017	0.031	No Message
N-3.60	C586	Pilote 100	0	Check	0.413	B.2.4.5-3	28.4	0.022	0.038	No Message
N-3.60	C586	Pilote 100	25	Check	0.425	B.2.4.5-3	28.4	0.022	0.038	No Message
N-3.60	C586	Pilote 100	50	Check	0.447	B.2.4.5-3	28.4	0.022	0.038	No Message
N-3.60	C587	Pilote 100	0	Check	0.447	B.2.4.5-3	28.4	0.032	0.046	No Message
N-3.60	C587	Pilote 100	25	Check	0.475	B.2.4.5-3	28.4	0.032	0.046	No Message
N-3.60	C587	Pilote 100	50	Check	0.512	B.2.4.5-3	28.4	0.032	0.046	No Message
N-3.60	C588	Pilote 100	0	Check	0.512	B.2.4.5-3	28.4	0.037	0.053	No Message
N-3.60	C588	Pilote 100	25	Check	0.556	B.2.4.5-3	28.4	0.037	0.053	No Message
N-3.60	C588	Pilote 100	50	Check	0.606	B.2.4.5-3	28.4	0.037	0.053	No Message
N-3.60	C589	Pilote 100	0	Check	0.606	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C589	Pilote 100	25	Check	0.674	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C589	Pilote 100	50	Check	0.747	B.2.4.5-3	28.4	0.042	0.059	No Message
N-3.60	C590	Pilote 100	0	Check	0.747	B.2.4.5-3	28.4	0.045	0.064	No Message
N-3.60	C590	Pilote 100	25	Check	0.828	B.2.4.5-3	28.4	0.045	0.064	No Message
N-3.60	C590	Pilote 100	50	Check	0.913	B.2.4.5-3	28.4	0.045	0.064	No Message
N-3.60	C591	Pilote 100	0	Check	0.913	B.2.4.5-3	28.4	0.702	0.713	No Message
N-3.60	C591	Pilote 100	0.1	Check	0.913	B.2.4.5-3	28.4	0.702	0.713	No Message
N-3.60	C618	Pilote 100	0	Check	0.054	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C618	Pilote 100	25	Check	0.053	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C618	Pilote 100	50	Check	0.052	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C619	Pilote 100	0	Check	0.052	B.2.4.5-3	28.4	0.005	0.004	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C619	Pilote 100	25	Check	0.052	B.2.4.5-3	28.4	0.005	0.004	No Message
N-3.60	C619	Pilote 100	50	Check	0.051	B.2.4.5-3	28.4	0.005	0.004	No Message
N-3.60	C620	Pilote 100	0	Check	0.051	B.2.4.5-3	28.4	0.005	0.004	No Message
N-3.60	C620	Pilote 100	25	Check	0.05	B.2.4.5-3	28.4	0.005	0.004	No Message
N-3.60	C620	Pilote 100	50	Check	0.049	B.2.4.5-3	28.4	0.005	0.004	No Message
N-3.60	C621	Pilote 100	0	Check	0.049	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C621	Pilote 100	25	Check	0.049	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C621	Pilote 100	50	Check	0.048	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C622	Pilote 100	0	Check	0.048	B.2.4.5-3	28.4	0.007	0.006	No Message
N-3.60	C622	Pilote 100	25	Check	0.047	B.2.4.5-3	28.4	0.007	0.006	No Message
N-3.60	C622	Pilote 100	50	Check	0.051	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C623	Pilote 100	0	Check	0.051	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C623	Pilote 100	25	Check	0.062	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C623	Pilote 100	50	Check	0.074	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C624	Pilote 100	0	Check	0.074	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C624	Pilote 100	25	Check	0.086	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C624	Pilote 100	50	Check	0.099	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C625	Pilote 100	0	Check	0.099	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C625	Pilote 100	25	Check	0.112	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C625	Pilote 100	50	Check	0.126	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C626	Pilote 100	0	Check	0.126	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C626	Pilote 100	25	Check	0.14	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C626	Pilote 100	50	Check	0.154	B.2.4.7-4	28.4	0.009	0.009	No Message
N-3.60	C627	Pilote 100	0	Check	0.154	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C627	Pilote 100	25	Check	0.168	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C627	Pilote 100	50	Check	0.181	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C628	Pilote 100	0	Check	0.181	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C628	Pilote 100	25	Check	0.193	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C628	Pilote 100	50	Check	0.206	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C629	Pilote 100	0	Check	0.206	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C629	Pilote 100	25	Check	0.216	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C629	Pilote 100	50	Check	0.225	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C630	Pilote 100	0	Check	0.225	B.2.4.7-4	28.4	0.009	0.010	No Message
N-3.60	C630	Pilote 100	25	Check	0.232	B.2.4.7-4	28.4	0.009	0.010	No Message
N-3.60	C630	Pilote 100	50	Check	0.239	B.2.4.7-4	28.4	0.009	0.010	No Message
N-3.60	C631	Pilote 100	0	Check	0.239	B.2.4.7-4	28.4	0.008	0.010	No Message
N-3.60	C631	Pilote 100	25	Check	0.241	B.2.4.7-4	28.4	0.008	0.010	No Message
N-3.60	C631	Pilote 100	50	Check	0.243	B.2.4.7-4	28.4	0.008	0.010	No Message
N-3.60	C632	Pilote 100	0	Check	0.243	B.2.4.7-4	28.4	0.006	0.011	No Message
N-3.60	C632	Pilote 100	25	Check	0.241	B.2.4.7-4	28.4	0.006	0.011	No Message
N-3.60	C632	Pilote 100	50	Check	0.238	B.2.4.7-4	28.4	0.006	0.011	No Message
N-3.60	C633	Pilote 100	0	Check	0.238	B.2.4.7-4	28.4	0.008	0.014	No Message
N-3.60	C633	Pilote 100	25	Check	0.238	B.2.4.7-4	28.4	0.008	0.014	No Message
N-3.60	C633	Pilote 100	50	Check	0.252	B.2.4.7-4	28.4	0.008	0.014	No Message
N-3.60	C634	Pilote 100	0	Check	0.252	B.2.4.7-4	28.4	0.010	0.018	No Message
N-3.60	C634	Pilote 100	25	Check	0.266	B.2.4.7-4	28.4	0.010	0.018	No Message
N-3.60	C634	Pilote 100	50	Check	0.281	B.2.4.7-4	28.4	0.010	0.018	No Message
N-3.60	C635	Pilote 100	0	Check	0.281	B.2.4.7-4	28.4	0.011	0.024	No Message
N-3.60	C635	Pilote 100	25	Check	0.298	B.2.4.7-4	28.4	0.011	0.024	No Message
N-3.60	C635	Pilote 100	50	Check	0.315	B.2.4.7-4	28.4	0.011	0.024	No Message
N-3.60	C636	Pilote 100	0	Check	0.315	B.2.4.7-4	28.4	0.011	0.029	No Message
N-3.60	C636	Pilote 100	25	Check	0.343	B.2.4.5-3	28.4	0.011	0.029	No Message
N-3.60	C636	Pilote 100	50	Check	0.374	B.2.4.5-3	28.4	0.011	0.029	No Message
N-3.60	C637	Pilote 100	0	Check	0.374	B.2.4.5-3	28.4	0.036	0.036	No Message
N-3.60	C637	Pilote 100	25	Check	0.406	B.2.4.5-3	28.4	0.036	0.036	No Message
N-3.60	C637	Pilote 100	50	Check	0.44	B.2.4.5-3	28.4	0.036	0.036	No Message
N-3.60	C638	P100R	0	Check	0.261	B.2.4.5-3	51	0.044	0.043	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C638	P100R	25	Check	0.284	B.2.4.5-3	51	0.044	0.043	No Message
N-3.60	C638	P100R	50	Check	0.317	B.2.4.5-3	51	0.044	0.043	No Message
N-3.60	C639	P100R	0	Check	0.317	B.2.4.5-3	51	0.051	0.051	No Message
N-3.60	C639	P100R	25	Check	0.365	B.2.4.5-3	51	0.051	0.051	No Message
N-3.60	C639	P100R	50	Check	0.417	B.2.4.5-3	51	0.051	0.051	No Message
N-3.60	C640	P100R	0	Check	0.417	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C640	P100R	25	Check	0.475	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C640	P100R	50	Check	0.536	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C641	P100R	0	Check	0.536	B.2.4.5-3	51	0.075	0.064	No Message
N-3.60	C641	P100R	25	Check	0.601	B.2.4.5-3	51	0.075	0.064	No Message
N-3.60	C641	P100R	50	Check	0.667	B.2.4.5-3	51	0.075	0.064	No Message
N-3.60	C642	P100R	0	Check	0.667	B.2.4.5-3	51	0.080	0.069	No Message
N-3.60	C642	P100R	25	Check	0.736	B.2.4.5-3	51	0.080	0.069	No Message
N-3.60	C642	P100R	50	Check	0.805	B.2.4.5-3	51	0.080	0.069	No Message
N-3.60	C643	P100R	0	Check	0.805	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C643	P100R	0.1	Check	0.806	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C643	P100R	0.2	Check	0.806	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C644	Pilote 100	0	Check	0.046	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C644	Pilote 100	25	Check	0.046	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C644	Pilote 100	50	Check	0.045	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C645	Pilote 100	0	Check	0.045	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C645	Pilote 100	25	Check	0.044	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C645	Pilote 100	50	Check	0.043	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C646	Pilote 100	0	Check	0.043	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C646	Pilote 100	25	Check	0.043	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C646	Pilote 100	50	Check	0.042	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C647	Pilote 100	0	Check	0.042	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C647	Pilote 100	25	Check	0.041	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C647	Pilote 100	50	Check	0.041	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C648	Pilote 100	0	Check	0.041	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C648	Pilote 100	25	Check	0.053	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C648	Pilote 100	50	Check	0.065	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C649	Pilote 100	0	Check	0.065	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C649	Pilote 100	25	Check	0.078	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C649	Pilote 100	50	Check	0.092	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C650	Pilote 100	0	Check	0.092	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C650	Pilote 100	25	Check	0.107	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C650	Pilote 100	50	Check	0.122	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C651	Pilote 100	0	Check	0.122	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C651	Pilote 100	25	Check	0.138	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C651	Pilote 100	50	Check	0.154	B.2.4.7-4	28.4	0.011	0.008	No Message
N-3.60	C652	Pilote 100	0	Check	0.154	B.2.4.7-4	28.4	0.011	0.009	No Message
N-3.60	C652	Pilote 100	25	Check	0.169	B.2.4.7-4	28.4	0.011	0.009	No Message
N-3.60	C652	Pilote 100	50	Check	0.185	B.2.4.7-4	28.4	0.011	0.009	No Message
N-3.60	C653	Pilote 100	0	Check	0.185	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C653	Pilote 100	25	Check	0.2	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C653	Pilote 100	50	Check	0.215	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C654	Pilote 100	0	Check	0.215	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C654	Pilote 100	25	Check	0.228	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C654	Pilote 100	50	Check	0.242	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C655	Pilote 100	0	Check	0.242	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C655	Pilote 100	25	Check	0.252	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C655	Pilote 100	50	Check	0.262	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C656	Pilote 100	0	Check	0.262	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C656	Pilote 100	25	Check	0.268	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C656	Pilote 100	50	Check	0.275	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C657	Pilote 100	0	Check	0.275	B.2.4.7-4	28.4	0.004	0.007	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
			cm							
N-3.60	C657	Pilote 100	25	Check	0.275	B.2.4.7-4	28.4	0.004	0.007	No Message
N-3.60	C657	Pilote 100	50	Check	0.276	B.2.4.7-4	28.4	0.004	0.007	No Message
N-3.60	C658	Pilote 100	0	Check	0.276	B.2.4.7-4	28.4	0.004	0.009	No Message
N-3.60	C658	Pilote 100	25	Check	0.27	B.2.4.7-4	28.4	0.004	0.009	No Message
N-3.60	C658	Pilote 100	50	Check	0.266	B.2.4.7-4	28.4	0.004	0.009	No Message
N-3.60	C659	Pilote 100	0	Check	0.266	B.2.4.7-4	28.4	0.010	0.012	No Message
N-3.60	C659	Pilote 100	25	Check	0.257	B.2.4.7-4	28.4	0.010	0.012	No Message
N-3.60	C659	Pilote 100	50	Check	0.261	B.2.4.7-4	28.4	0.010	0.012	No Message
N-3.60	C660	Pilote 100	0	Check	0.261	B.2.4.7-4	28.4	0.012	0.017	No Message
N-3.60	C660	Pilote 100	25	Check	0.271	B.2.4.7-4	28.4	0.012	0.017	No Message
N-3.60	C660	Pilote 100	50	Check	0.282	B.2.4.7-4	28.4	0.012	0.017	No Message
N-3.60	C661	Pilote 100	0	Check	0.282	B.2.4.7-4	28.4	0.013	0.023	No Message
N-3.60	C661	Pilote 100	25	Check	0.293	B.2.4.7-4	28.4	0.013	0.023	No Message
N-3.60	C661	Pilote 100	50	Check	0.317	B.2.4.5-3	28.4	0.013	0.023	No Message
N-3.60	C662	Pilote 100	0	Check	0.317	B.2.4.5-3	28.4	0.014	0.029	No Message
N-3.60	C662	Pilote 100	25	Check	0.347	B.2.4.5-3	28.4	0.014	0.029	No Message
N-3.60	C662	Pilote 100	50	Check	0.378	B.2.4.5-3	28.4	0.014	0.029	No Message
N-3.60	C663	Pilote 100	0	Check	0.378	B.2.4.5-3	28.4	0.045	0.036	No Message
N-3.60	C663	Pilote 100	25	Check	0.414	B.2.4.5-3	28.4	0.045	0.036	No Message
N-3.60	C663	Pilote 100	50	Check	0.454	B.2.4.5-3	28.4	0.045	0.036	No Message
N-3.60	C664	P100R	0	Check	0.269	B.2.4.5-3	51	0.054	0.044	No Message
N-3.60	C664	P100R	25	Check	0.305	B.2.4.5-3	51	0.054	0.044	No Message
N-3.60	C664	P100R	50	Check	0.356	B.2.4.5-3	51	0.054	0.044	No Message
N-3.60	C665	P100R	0	Check	0.356	B.2.4.5-3	51	0.062	0.051	No Message
N-3.60	C665	P100R	25	Check	0.418	B.2.4.5-3	51	0.062	0.051	No Message
N-3.60	C665	P100R	50	Check	0.481	B.2.4.5-3	51	0.062	0.051	No Message
N-3.60	C666	P100R	0	Check	0.481	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C666	P100R	25	Check	0.551	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C666	P100R	50	Check	0.621	B.2.4.5-3	51	0.069	0.058	No Message
N-3.60	C667	P100R	0	Check	0.621	B.2.4.5-3	51	0.083	0.063	No Message
N-3.60	C667	P100R	25	Check	0.697	B.2.4.5-3	51	0.083	0.063	No Message
N-3.60	C667	P100R	50	Check	0.773	B.2.4.5-3	51	0.083	0.063	No Message
N-3.60	C668	P100R	0	Check	0.773	B.2.4.5-3	51	0.097	0.068	No Message
N-3.60	C668	P100R	25	Check	0.853	B.2.4.5-3	51	0.097	0.068	No Message
N-3.60	C668	P100R	50	Check	0.933	B.2.4.5-3	51	0.097	0.068	No Message
N-3.60	C669	P100R	0	Check	0.933	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C669	P100R	0.1	Check	0.933	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C669	P100R	0.2	Check	0.934	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C670	Pilote 100	0	Check	0.053	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C670	Pilote 100	25	Check	0.052	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C670	Pilote 100	50	Check	0.052	B.2.4.5-3	28.4	0.007	0.005	No Message
N-3.60	C671	Pilote 100	0	Check	0.052	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C671	Pilote 100	25	Check	0.051	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C671	Pilote 100	50	Check	0.05	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C672	Pilote 100	0	Check	0.05	B.2.4.5-3	28.4	0.003	0.005	No Message
N-3.60	C672	Pilote 100	25	Check	0.05	B.2.4.5-3	28.4	0.003	0.005	No Message
N-3.60	C672	Pilote 100	50	Check	0.049	B.2.4.5-3	28.4	0.003	0.005	No Message
N-3.60	C673	Pilote 100	0	Check	0.049	B.2.4.5-3	28.4	0.003	0.007	No Message
N-3.60	C673	Pilote 100	25	Check	0.048	B.2.4.5-3	28.4	0.003	0.007	No Message
N-3.60	C673	Pilote 100	50	Check	0.05	B.2.4.7-4	28.4	0.003	0.007	No Message
N-3.60	C674	Pilote 100	0	Check	0.05	B.2.4.7-4	28.4	0.004	0.008	No Message
N-3.60	C674	Pilote 100	25	Check	0.058	B.2.4.7-4	28.4	0.004	0.008	No Message
N-3.60	C674	Pilote 100	50	Check	0.067	B.2.4.7-4	28.4	0.004	0.008	No Message
N-3.60	C675	Pilote 100	0	Check	0.067	B.2.4.7-4	28.4	0.005	0.009	No Message
N-3.60	C675	Pilote 100	25	Check	0.077	B.2.4.7-4	28.4	0.005	0.009	No Message
N-3.60	C675	Pilote 100	50	Check	0.088	B.2.4.7-4	28.4	0.005	0.009	No Message
N-3.60	C676	Pilote 100	0	Check	0.088	B.2.4.7-4	28.4	0.006	0.010	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C676	Pilote 100	25	Check	0.099	B.2.4.7-4	28.4	0.006	0.010	No Message
N-3.60	C676	Pilote 100	50	Check	0.111	B.2.4.7-4	28.4	0.006	0.010	No Message
N-3.60	C677	Pilote 100	0	Check	0.111	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C677	Pilote 100	25	Check	0.123	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C677	Pilote 100	50	Check	0.136	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C678	Pilote 100	0	Check	0.136	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C678	Pilote 100	25	Check	0.148	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C678	Pilote 100	50	Check	0.162	B.2.4.7-4	28.4	0.007	0.011	No Message
N-3.60	C679	Pilote 100	0	Check	0.162	B.2.4.7-4	28.4	0.007	0.010	No Message
N-3.60	C679	Pilote 100	25	Check	0.174	B.2.4.7-4	28.4	0.007	0.010	No Message
N-3.60	C679	Pilote 100	50	Check	0.187	B.2.4.7-4	28.4	0.007	0.010	No Message
N-3.60	C680	Pilote 100	0	Check	0.187	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C680	Pilote 100	25	Check	0.199	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C680	Pilote 100	50	Check	0.211	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C681	Pilote 100	0	Check	0.211	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C681	Pilote 100	25	Check	0.221	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C681	Pilote 100	50	Check	0.231	B.2.4.7-4	28.4	0.008	0.009	No Message
N-3.60	C682	Pilote 100	0	Check	0.231	B.2.4.7-4	28.4	0.008	0.011	No Message
N-3.60	C682	Pilote 100	25	Check	0.239	B.2.4.7-4	28.4	0.008	0.011	No Message
N-3.60	C682	Pilote 100	50	Check	0.248	B.2.4.7-4	28.4	0.008	0.011	No Message
N-3.60	C683	Pilote 100	0	Check	0.248	B.2.4.7-4	28.4	0.009	0.013	No Message
N-3.60	C683	Pilote 100	25	Check	0.254	B.2.4.7-4	28.4	0.009	0.013	No Message
N-3.60	C683	Pilote 100	50	Check	0.26	B.2.4.7-4	28.4	0.009	0.013	No Message
N-3.60	C684	Pilote 100	0	Check	0.26	B.2.4.7-4	28.4	0.009	0.004	No Message
N-3.60	C684	Pilote 100	25	Check	0.262	B.2.4.7-4	28.4	0.009	0.004	No Message
N-3.60	C684	Pilote 100	50	Check	0.265	B.2.4.7-4	28.4	0.009	0.004	No Message
N-3.60	C685	Pilote 100	0	Check	0.265	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C685	Pilote 100	25	Check	0.268	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C685	Pilote 100	50	Check	0.282	B.2.4.7-4	28.4	0.007	0.009	No Message
N-3.60	C686	Pilote 100	0	Check	0.282	B.2.4.7-4	28.4	0.003	0.011	No Message
N-3.60	C686	Pilote 100	25	Check	0.298	B.2.4.7-4	28.4	0.003	0.011	No Message
N-3.60	C686	Pilote 100	50	Check	0.316	B.2.4.7-4	28.4	0.003	0.011	No Message
N-3.60	C687	Pilote 100	0	Check	0.316	B.2.4.7-4	28.4	0.003	0.010	No Message
N-3.60	C687	Pilote 100	25	Check	0.333	B.2.4.7-4	28.4	0.003	0.010	No Message
N-3.60	C687	Pilote 100	50	Check	0.352	B.2.4.7-4	28.4	0.003	0.010	No Message
N-3.60	C688	Pilote 100	0	Check	0.352	B.2.4.7-4	28.4	0.013	0.010	No Message
N-3.60	C688	Pilote 100	25	Check	0.387	B.2.4.5-3	28.4	0.013	0.010	No Message
N-3.60	C688	Pilote 100	50	Check	0.424	B.2.4.5-3	28.4	0.013	0.010	No Message
N-3.60	C689	Pilote 100	0	Check	0.424	B.2.4.5-3	28.4	0.022	0.041	No Message
N-3.60	C689	Pilote 100	25	Check	0.463	B.2.4.5-3	28.4	0.022	0.041	No Message
N-3.60	C689	Pilote 100	50	Check	0.504	B.2.4.5-3	28.4	0.022	0.041	No Message
N-3.60	C690	P100R	0	Check	0.298	B.2.4.5-3	51	0.027	0.049	No Message
N-3.60	C690	P100R	25	Check	0.327	B.2.4.5-3	51	0.027	0.049	No Message
N-3.60	C690	P100R	50	Check	0.359	B.2.4.5-3	51	0.027	0.049	No Message
N-3.60	C691	P100R	0	Check	0.359	B.2.4.5-3	51	0.033	0.057	No Message
N-3.60	C691	P100R	25	Check	0.395	B.2.4.5-3	51	0.033	0.057	No Message
N-3.60	C691	P100R	50	Check	0.436	B.2.4.5-3	51	0.033	0.057	No Message
N-3.60	C692	P100R	0	Check	0.436	B.2.4.5-3	51	0.038	0.079	No Message
N-3.60	C692	P100R	25	Check	0.484	B.2.4.5-3	51	0.038	0.079	No Message
N-3.60	C692	P100R	50	Check	0.535	B.2.4.5-3	51	0.038	0.079	No Message
N-3.60	C693	P100R	0	Check	0.535	B.2.4.5-3	51	0.043	0.086	No Message
N-3.60	C693	P100R	25	Check	0.591	B.2.4.5-3	51	0.043	0.086	No Message
N-3.60	C693	P100R	50	Check	0.648	B.2.4.5-3	51	0.043	0.086	No Message
N-3.60	C694	P100R	0	Check	0.648	B.2.4.5-3	51	0.046	0.091	No Message
N-3.60	C694	P100R	25	Check	0.709	B.2.4.5-3	51	0.046	0.091	No Message
N-3.60	C694	P100R	50	Check	0.771	B.2.4.5-3	51	0.046	0.091	No Message
N-3.60	C695	P100R	0	Check	0.771	B.2.4.5-3	51	0.000	0.000	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C695	P100R	0.1	Check	0.771	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C695	P100R	0.2	Check	0.772	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C696	Pilote 100	0	Check	0.048	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C696	Pilote 100	25	Check	0.047	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C696	Pilote 100	50	Check	0.046	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C697	Pilote 100	0	Check	0.046	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C697	Pilote 100	25	Check	0.045	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C697	Pilote 100	50	Check	0.045	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C698	Pilote 100	0	Check	0.045	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C698	Pilote 100	25	Check	0.044	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C698	Pilote 100	50	Check	0.043	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C699	Pilote 100	0	Check	0.043	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C699	Pilote 100	25	Check	0.043	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C699	Pilote 100	50	Check	0.042	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C700	Pilote 100	0	Check	0.042	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C700	Pilote 100	25	Check	0.041	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C700	Pilote 100	50	Check	0.04	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C701	Pilote 100	0	Check	0.04	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C701	Pilote 100	25	Check	0.04	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C701	Pilote 100	50	Check	0.042	B.2.4.7-4	28.4	0.005	0.003	No Message
N-3.60	C702	Pilote 100	0	Check	0.042	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C702	Pilote 100	25	Check	0.052	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C702	Pilote 100	50	Check	0.061	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C703	Pilote 100	0	Check	0.061	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C703	Pilote 100	25	Check	0.072	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C703	Pilote 100	50	Check	0.083	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C704	Pilote 100	0	Check	0.083	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C704	Pilote 100	25	Check	0.095	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C704	Pilote 100	50	Check	0.107	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C705	Pilote 100	0	Check	0.107	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C705	Pilote 100	25	Check	0.12	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C705	Pilote 100	50	Check	0.133	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C706	Pilote 100	0	Check	0.133	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C706	Pilote 100	25	Check	0.146	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C706	Pilote 100	50	Check	0.159	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C707	Pilote 100	0	Check	0.159	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C707	Pilote 100	25	Check	0.172	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C707	Pilote 100	50	Check	0.185	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C708	Pilote 100	0	Check	0.185	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C708	Pilote 100	25	Check	0.197	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C708	Pilote 100	50	Check	0.209	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C709	Pilote 100	0	Check	0.209	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C709	Pilote 100	25	Check	0.22	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C709	Pilote 100	50	Check	0.231	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C710	Pilote 100	0	Check	0.231	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C710	Pilote 100	25	Check	0.239	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C710	Pilote 100	50	Check	0.248	B.2.4.7-4	28.4	0.010	0.008	No Message
N-3.60	C711	Pilote 100	0	Check	0.248	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C711	Pilote 100	25	Check	0.255	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C711	Pilote 100	50	Check	0.262	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C712	Pilote 100	0	Check	0.262	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C712	Pilote 100	25	Check	0.272	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C712	Pilote 100	50	Check	0.285	B.2.4.7-4	28.4	0.010	0.007	No Message
N-3.60	C713	Pilote 100	0	Check	0.285	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C713	Pilote 100	25	Check	0.296	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C713	Pilote 100	50	Check	0.307	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C714	Pilote 100	0	Check	0.307	B.2.4.7-4	28.4	0.015	0.009	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C714	Pilote 100	25	Check	0.317	B.2.4.7-4	28.4	0.015	0.009	No Message
N-3.60	C714	Pilote 100	50	Check	0.327	B.2.4.7-4	28.4	0.015	0.009	No Message
N-3.60	C715	Pilote 100	0	Check	0.327	B.2.4.7-4	28.4	0.020	0.011	No Message
N-3.60	C715	Pilote 100	25	Check	0.336	B.2.4.7-4	28.4	0.020	0.011	No Message
N-3.60	C715	Pilote 100	50	Check	0.346	B.2.4.5-3	28.4	0.020	0.011	No Message
N-3.60	C716	P100R	0	Check	0.205	B.2.4.5-3	51	0.025	0.014	No Message
N-3.60	C716	P100R	25	Check	0.214	B.2.4.5-3	51	0.025	0.014	No Message
N-3.60	C716	P100R	50	Check	0.224	B.2.4.5-3	51	0.025	0.014	No Message
N-3.60	C717	P100R	0	Check	0.224	B.2.4.5-3	51	0.036	0.018	No Message
N-3.60	C717	P100R	25	Check	0.235	B.2.4.5-3	51	0.036	0.018	No Message
N-3.60	C717	P100R	50	Check	0.247	B.2.4.5-3	51	0.036	0.018	No Message
N-3.60	C718	P100R	0	Check	0.247	B.2.4.5-3	51	0.042	0.022	No Message
N-3.60	C718	P100R	25	Check	0.261	B.2.4.5-3	51	0.042	0.022	No Message
N-3.60	C718	P100R	50	Check	0.279	B.2.4.5-3	51	0.042	0.022	No Message
N-3.60	C719	P100R	0	Check	0.279	B.2.4.5-3	51	0.047	0.026	No Message
N-3.60	C719	P100R	25	Check	0.301	B.2.4.5-3	51	0.047	0.026	No Message
N-3.60	C719	P100R	50	Check	0.326	B.2.4.5-3	51	0.047	0.026	No Message
N-3.60	C720	P100R	0	Check	0.326	B.2.4.5-3	51	0.051	0.029	No Message
N-3.60	C720	P100R	25	Check	0.355	B.2.4.5-3	51	0.051	0.029	No Message
N-3.60	C720	P100R	50	Check	0.387	B.2.4.5-3	51	0.051	0.029	No Message
N-3.60	C721	P100R	0	Check	0.387	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C721	P100R	0.1	Check	0.388	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C721	P100R	0.2	Check	0.388	B.2.4.5-3	51	0.000	0.000	No Message
N-3.60	C722	Pilote 100	0	Check	0.053	B.2.4.5-8	28.4	0.011	0.007	No Message
N-3.60	C722	Pilote 100	25	Check	0.052	B.2.4.5-8	28.4	0.011	0.007	No Message
N-3.60	C722	Pilote 100	50	Check	0.051	B.2.4.5-8	28.4	0.011	0.007	No Message
N-3.60	C723	Pilote 100	0	Check	0.051	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C723	Pilote 100	25	Check	0.051	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C723	Pilote 100	50	Check	0.05	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C724	Pilote 100	0	Check	0.05	B.2.4.5-8	28.4	0.004	0.003	No Message
N-3.60	C724	Pilote 100	25	Check	0.049	B.2.4.5-8	28.4	0.004	0.003	No Message
N-3.60	C724	Pilote 100	50	Check	0.048	B.2.4.5-8	28.4	0.004	0.003	No Message
N-3.60	C725	Pilote 100	0	Check	0.048	B.2.4.5-8	28.4	0.003	0.004	No Message
N-3.60	C725	Pilote 100	25	Check	0.049	B.2.4.5-8	28.4	0.003	0.004	No Message
N-3.60	C725	Pilote 100	50	Check	0.049	B.2.4.5-8	28.4	0.003	0.004	No Message
N-3.60	C726	Pilote 100	0	Check	0.049	B.2.4.5-8	28.4	0.003	0.005	No Message
N-3.60	C726	Pilote 100	25	Check	0.05	B.2.4.5-8	28.4	0.003	0.005	No Message
N-3.60	C726	Pilote 100	50	Check	0.051	B.2.4.5-8	28.4	0.003	0.005	No Message
N-3.60	C727	Pilote 100	0	Check	0.051	B.2.4.5-8	28.4	0.005	0.004	No Message
N-3.60	C727	Pilote 100	25	Check	0.053	B.2.4.5-8	28.4	0.005	0.004	No Message
N-3.60	C727	Pilote 100	50	Check	0.055	B.2.4.5-8	28.4	0.005	0.004	No Message
N-3.60	C728	Pilote 100	0	Check	0.055	B.2.4.5-8	28.4	0.006	0.011	No Message
N-3.60	C728	Pilote 100	25	Check	0.058	B.2.4.5-8	28.4	0.006	0.011	No Message
N-3.60	C728	Pilote 100	50	Check	0.061	B.2.4.5-8	28.4	0.006	0.011	No Message
N-3.60	C729	Pilote 100	0	Check	0.061	B.2.4.5-8	28.4	0.007	0.011	No Message
N-3.60	C729	Pilote 100	25	Check	0.065	B.2.4.5-8	28.4	0.007	0.011	No Message
N-3.60	C729	Pilote 100	50	Check	0.071	B.2.4.5-8	28.4	0.007	0.011	No Message
N-3.60	C730	Pilote 100	0	Check	0.071	B.2.4.5-8	28.4	0.007	0.013	No Message
N-3.60	C730	Pilote 100	25	Check	0.076	B.2.4.7-8	28.4	0.007	0.013	No Message
N-3.60	C730	Pilote 100	50	Check	0.089	B.2.4.7-8	28.4	0.007	0.013	No Message
N-3.60	C731	Pilote 100	0	Check	0.089	B.2.4.7-8	28.4	0.008	0.012	No Message
N-3.60	C731	Pilote 100	25	Check	0.103	B.2.4.7-8	28.4	0.008	0.012	No Message
N-3.60	C731	Pilote 100	50	Check	0.119	B.2.4.7-8	28.4	0.008	0.012	No Message
N-3.60	C732	Pilote 100	0	Check	0.119	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C732	Pilote 100	25	Check	0.134	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C732	Pilote 100	50	Check	0.149	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C733	Pilote 100	0	Check	0.149	B.2.4.7-8	28.4	0.009	0.014	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C733	Pilote 100	25	Check	0.161	B.2.4.7-8	28.4	0.009	0.014	No Message
N-3.60	C733	Pilote 100	50	Check	0.173	B.2.4.7-8	28.4	0.009	0.014	No Message
N-3.60	C734	Pilote 100	0	Check	0.173	B.2.4.7-8	28.4	0.010	0.019	No Message
N-3.60	C734	Pilote 100	25	Check	0.182	B.2.4.7-8	28.4	0.010	0.019	No Message
N-3.60	C734	Pilote 100	50	Check	0.19	B.2.4.7-8	28.4	0.010	0.019	No Message
N-3.60	C735	Pilote 100	0	Check	0.19	B.2.4.7-8	28.4	0.010	0.007	No Message
N-3.60	C735	Pilote 100	25	Check	0.194	B.2.4.7-8	28.4	0.010	0.007	No Message
N-3.60	C735	Pilote 100	50	Check	0.197	B.2.4.7-8	28.4	0.010	0.007	No Message
N-3.60	C736	Pilote 100	0	Check	0.197	B.2.4.7-8	28.4	0.010	0.015	No Message
N-3.60	C736	Pilote 100	25	Check	0.194	B.2.4.7-8	28.4	0.010	0.015	No Message
N-3.60	C736	Pilote 100	50	Check	0.191	B.2.4.7-8	28.4	0.010	0.015	No Message
N-3.60	C737	Pilote 100	0	Check	0.191	B.2.4.7-8	28.4	0.009	0.000	No Message
N-3.60	C737	Pilote 100	25	Check	0.204	B.2.4.7-8	28.4	0.009	0.000	No Message
N-3.60	C737	Pilote 100	50	Check	0.236	B.2.4.7-8	28.4	0.009	0.000	No Message
N-3.60	C738	Pilote 100	0	Check	0.236	B.2.4.7-8	28.4	0.006	0.000	No Message
N-3.60	C738	Pilote 100	25	Check	0.27	B.2.4.7-8	28.4	0.006	0.000	No Message
N-3.60	C738	Pilote 100	50	Check	0.305	B.2.4.7-8	28.4	0.006	0.000	No Message
N-3.60	C739	Pilote 100	0	Check	0.305	B.2.4.7-8	28.4	0.006	0.000	No Message
N-3.60	C739	Pilote 100	25	Check	0.35	B.2.4.5-8	28.4	0.006	0.000	No Message
N-3.60	C739	Pilote 100	50	Check	0.408	B.2.4.5-8	28.4	0.006	0.000	No Message
N-3.60	C740	Pilote 100	0	Check	0.408	B.2.4.5-8	28.4	0.008	0.000	No Message
N-3.60	C740	Pilote 100	25	Check	0.472	B.2.4.5-8	28.4	0.008	0.000	No Message
N-3.60	C740	Pilote 100	50	Check	0.538	B.2.4.5-8	28.4	0.008	0.000	No Message
N-3.60	C741	P100R	0	Check	0.32	B.2.4.5-8	51	0.015	0.000	No Message
N-3.60	C741	P100R	25	Check	0.361	B.2.4.5-8	51	0.015	0.000	No Message
N-3.60	C741	P100R	50	Check	0.403	B.2.4.5-8	51	0.015	0.000	No Message
N-3.60	C742	P100R	0	Check	0.403	B.2.4.5-8	51	0.020	0.030	No Message
N-3.60	C742	P100R	25	Check	0.447	B.2.4.5-8	51	0.020	0.030	No Message
N-3.60	C742	P100R	50	Check	0.491	B.2.4.5-8	51	0.020	0.030	No Message
N-3.60	C743	P100R	0	Check	0.491	B.2.4.5-8	51	0.025	0.083	No Message
N-3.60	C743	P100R	25	Check	0.538	B.2.4.5-8	51	0.025	0.083	No Message
N-3.60	C743	P100R	50	Check	0.587	B.2.4.5-8	51	0.025	0.083	No Message
N-3.60	C744	P100R	0	Check	0.587	B.2.4.5-8	51	0.030	0.083	No Message
N-3.60	C744	P100R	25	Check	0.641	B.2.4.5-8	51	0.030	0.083	No Message
N-3.60	C744	P100R	50	Check	0.699	B.2.4.5-8	51	0.030	0.083	No Message
N-3.60	C745	P100R	0	Check	0.699	B.2.4.5-8	51	0.035	0.083	No Message
N-3.60	C745	P100R	25	Check	0.765	B.2.4.5-8	51	0.035	0.083	No Message
N-3.60	C745	P100R	50	Check	0.839	B.2.4.5-8	51	0.035	0.083	No Message
N-3.60	C746	P100R	0	Check	0.839	B.2.4.5-8	51	0.038	0.083	No Message
N-3.60	C746	P100R	25	Check	0.922	B.2.4.5-8	51	0.038	0.083	No Message
N-3.60	C748	Pilote 100	0	Check	0.032	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C748	Pilote 100	25	Check	0.031	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C748	Pilote 100	50	Check	0.03	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C749	Pilote 100	0	Check	0.03	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C749	Pilote 100	25	Check	0.029	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C749	Pilote 100	50	Check	0.029	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C750	Pilote 100	0	Check	0.029	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C750	Pilote 100	25	Check	0.028	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C750	Pilote 100	50	Check	0.027	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C751	Pilote 100	0	Check	0.027	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C751	Pilote 100	25	Check	0.027	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C751	Pilote 100	50	Check	0.027	B.2.4.5-8	28.4	0.004	0.004	No Message
N-3.60	C752	Pilote 100	0	Check	0.027	B.2.4.5-8	28.4	0.005	0.006	No Message
N-3.60	C752	Pilote 100	25	Check	0.03	B.2.4.7-8	28.4	0.005	0.006	No Message
N-3.60	C752	Pilote 100	50	Check	0.038	B.2.4.7-8	28.4	0.005	0.006	No Message
N-3.60	C753	Pilote 100	0	Check	0.038	B.2.4.7-8	28.4	0.006	0.007	No Message
N-3.60	C753	Pilote 100	25	Check	0.047	B.2.4.7-8	28.4	0.006	0.007	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C753	Pilote 100	50	Check	0.056	B.2.4.7-8	28.4	0.006	0.007	No Message
N-3.60	C754	Pilote 100	0	Check	0.056	B.2.4.7-8	28.4	0.007	0.008	No Message
N-3.60	C754	Pilote 100	25	Check	0.066	B.2.4.7-8	28.4	0.007	0.008	No Message
N-3.60	C754	Pilote 100	50	Check	0.077	B.2.4.7-8	28.4	0.007	0.008	No Message
N-3.60	C755	Pilote 100	0	Check	0.077	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C755	Pilote 100	25	Check	0.089	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C755	Pilote 100	50	Check	0.101	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C756	Pilote 100	0	Check	0.101	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C756	Pilote 100	25	Check	0.114	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C756	Pilote 100	50	Check	0.127	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C757	Pilote 100	0	Check	0.127	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C757	Pilote 100	25	Check	0.141	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C757	Pilote 100	50	Check	0.154	B.2.4.7-8	28.4	0.009	0.009	No Message
N-3.60	C758	Pilote 100	0	Check	0.154	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C758	Pilote 100	25	Check	0.168	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C758	Pilote 100	50	Check	0.181	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C759	Pilote 100	0	Check	0.181	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C759	Pilote 100	25	Check	0.193	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C759	Pilote 100	50	Check	0.205	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C760	Pilote 100	0	Check	0.205	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C760	Pilote 100	25	Check	0.215	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C760	Pilote 100	50	Check	0.225	B.2.4.7-8	28.4	0.008	0.009	No Message
N-3.60	C761	Pilote 100	0	Check	0.225	B.2.4.7-8	28.4	0.007	0.009	No Message
N-3.60	C761	Pilote 100	25	Check	0.232	B.2.4.7-8	28.4	0.007	0.009	No Message
N-3.60	C761	Pilote 100	50	Check	0.24	B.2.4.7-8	28.4	0.007	0.009	No Message
N-3.60	C762	Pilote 100	0	Check	0.24	B.2.4.7-8	28.4	0.006	0.007	No Message
N-3.60	C762	Pilote 100	25	Check	0.243	B.2.4.7-8	28.4	0.006	0.007	No Message
N-3.60	C762	Pilote 100	50	Check	0.246	B.2.4.7-8	28.4	0.006	0.007	No Message
N-3.60	C763	Pilote 100	0	Check	0.246	B.2.4.7-8	28.4	0.002	0.003	No Message
N-3.60	C763	Pilote 100	25	Check	0.245	B.2.4.7-8	28.4	0.002	0.003	No Message
N-3.60	C763	Pilote 100	50	Check	0.251	B.2.4.7-8	28.4	0.002	0.003	No Message
N-3.60	C764	Pilote 100	0	Check	0.251	B.2.4.7-8	28.4	0.007	0.003	No Message
N-3.60	C764	Pilote 100	25	Check	0.259	B.2.4.7-8	28.4	0.007	0.003	No Message
N-3.60	C764	Pilote 100	50	Check	0.267	B.2.4.7-8	28.4	0.007	0.003	No Message
N-3.60	C765	Pilote 100	0	Check	0.267	B.2.4.7-8	28.4	0.014	0.006	No Message
N-3.60	C765	Pilote 100	25	Check	0.272	B.2.4.5-8	28.4	0.014	0.006	No Message
N-3.60	C765	Pilote 100	50	Check	0.285	B.2.4.5-8	28.4	0.014	0.006	No Message
N-3.60	C766	Pilote 100	0	Check	0.285	B.2.4.5-8	28.4	0.020	0.019	No Message
N-3.60	C766	Pilote 100	25	Check	0.295	B.2.4.5-8	28.4	0.020	0.019	No Message
N-3.60	C766	Pilote 100	50	Check	0.306	B.2.4.5-8	28.4	0.020	0.019	No Message
N-3.60	C767	Pilote 100	0	Check	0.306	B.2.4.5-8	28.4	0.027	0.025	No Message
N-3.60	C767	Pilote 100	25	Check	0.315	B.2.4.5-8	28.4	0.027	0.025	No Message
N-3.60	C767	Pilote 100	50	Check	0.326	B.2.4.5-8	28.4	0.027	0.025	No Message
N-3.60	C768	Pilote 100	0	Check	0.326	B.2.4.5-8	28.4	0.034	0.039	No Message
N-3.60	C768	Pilote 100	25	Check	0.336	B.2.4.5-8	28.4	0.034	0.039	No Message
N-3.60	C768	Pilote 100	50	Check	0.348	B.2.4.5-8	28.4	0.034	0.039	No Message
N-3.60	C769	Pilote 100	0	Check	0.348	B.2.4.5-8	28.4	0.041	0.047	No Message
N-3.60	C769	Pilote 100	25	Check	0.37	B.2.4.5-8	28.4	0.041	0.047	No Message
N-3.60	C769	Pilote 100	50	Check	0.419	B.2.4.5-8	28.4	0.041	0.047	No Message
N-3.60	C770	Pilote 100	0	Check	0.419	B.2.4.5-8	28.4	0.047	0.053	No Message
N-3.60	C770	Pilote 100	25	Check	0.489	B.2.4.5-8	28.4	0.047	0.053	No Message
N-3.60	C770	Pilote 100	50	Check	0.563	B.2.4.5-8	28.4	0.047	0.053	No Message
N-3.60	C771	Pilote 100	0	Check	0.563	B.2.4.5-8	28.4	0.053	0.059	No Message
N-3.60	C771	Pilote 100	25	Check	0.646	B.2.4.5-8	28.4	0.053	0.059	No Message
N-3.60	C771	Pilote 100	50	Check	0.73	B.2.4.5-8	28.4	0.053	0.059	No Message
N-3.60	C772	Pilote 100	0	Check	0.73	B.2.4.5-8	28.4	0.058	0.064	No Message
N-3.60	C772	Pilote 100	25	Check	0.82	B.2.4.5-8	28.4	0.058	0.064	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C772	Pilote 100	50	Check	0.91	B.2.4.5-8	28.4	0.058	0.064	No Message
N-3.60	C773	Pilote 100	0	Check	0.91	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C773	Pilote 100	0.1	Check	0.91	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C773	Pilote 100	0.2	Check	0.91	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C800	Pilote 100	0	Check	0.006	B.2.4.1	28.4	0.006	0.005	No Message
N-3.60	C800	Pilote 100	25	Check	0.005	B.2.4.1	28.4	0.006	0.005	No Message
N-3.60	C800	Pilote 100	50	Check	0.006	B.2.4.5-3	28.4	0.006	0.005	No Message
N-3.60	C801	Pilote 100	0	Check	0.006	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C801	Pilote 100	25	Check	0.009	B.2.4.7-4	28.4	0.004	0.004	No Message
N-3.60	C801	Pilote 100	50	Check	0.016	B.2.4.7-4	28.4	0.004	0.004	No Message
N-3.60	C802	Pilote 100	0	Check	0.016	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C802	Pilote 100	25	Check	0.023	B.2.4.7-4	28.4	0.003	0.004	No Message
N-3.60	C802	Pilote 100	50	Check	0.03	B.2.4.7-8	28.4	0.003	0.004	No Message
N-3.60	C803	Pilote 100	0	Check	0.03	B.2.4.7-8	28.4	0.003	0.004	No Message
N-3.60	C803	Pilote 100	25	Check	0.038	B.2.4.5-8	28.4	0.003	0.004	No Message
N-3.60	C803	Pilote 100	50	Check	0.047	B.2.4.5-8	28.4	0.003	0.004	No Message
N-3.60	C804	Pilote 100	0	Check	0.047	B.2.4.5-8	28.4	0.004	0.005	No Message
N-3.60	C804	Pilote 100	25	Check	0.056	B.2.4.5-8	28.4	0.004	0.005	No Message
N-3.60	C804	Pilote 100	50	Check	0.066	B.2.4.5-8	28.4	0.004	0.005	No Message
N-3.60	C805	Pilote 100	0	Check	0.066	B.2.4.5-8	28.4	0.005	0.007	No Message
N-3.60	C805	Pilote 100	25	Check	0.078	B.2.4.5-8	28.4	0.005	0.007	No Message
N-3.60	C805	Pilote 100	50	Check	0.09	B.2.4.5-8	28.4	0.005	0.007	No Message
N-3.60	C806	Pilote 100	0	Check	0.09	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C806	Pilote 100	25	Check	0.103	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C806	Pilote 100	50	Check	0.117	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C807	Pilote 100	0	Check	0.117	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C807	Pilote 100	25	Check	0.131	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C807	Pilote 100	50	Check	0.146	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C808	Pilote 100	0	Check	0.146	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C808	Pilote 100	25	Check	0.162	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C808	Pilote 100	50	Check	0.178	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C809	Pilote 100	0	Check	0.178	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C809	Pilote 100	25	Check	0.194	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C809	Pilote 100	50	Check	0.21	B.2.4.5-8	28.4	0.007	0.009	No Message
N-3.60	C810	Pilote 100	0	Check	0.21	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C810	Pilote 100	25	Check	0.226	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C810	Pilote 100	50	Check	0.242	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C811	Pilote 100	0	Check	0.242	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C811	Pilote 100	25	Check	0.256	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C811	Pilote 100	50	Check	0.271	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C812	Pilote 100	0	Check	0.271	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C812	Pilote 100	25	Check	0.283	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C812	Pilote 100	50	Check	0.296	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C813	Pilote 100	0	Check	0.296	B.2.4.5-8	28.4	0.004	0.006	No Message
N-3.60	C813	Pilote 100	25	Check	0.305	B.2.4.5-8	28.4	0.004	0.006	No Message
N-3.60	C813	Pilote 100	50	Check	0.314	B.2.4.5-8	28.4	0.004	0.006	No Message
N-3.60	C814	Pilote 100	0	Check	0.314	B.2.4.5-8	28.4	0.002	0.001	No Message
N-3.60	C814	Pilote 100	25	Check	0.319	B.2.4.5-8	28.4	0.002	0.001	No Message
N-3.60	C814	Pilote 100	50	Check	0.324	B.2.4.5-8	28.4	0.002	0.001	No Message
N-3.60	C815	Pilote 100	0	Check	0.324	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C815	Pilote 100	25	Check	0.325	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C815	Pilote 100	50	Check	0.331	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C816	Pilote 100	0	Check	0.331	B.2.4.5-8	28.4	0.005	0.011	No Message
N-3.60	C816	Pilote 100	25	Check	0.332	B.2.4.5-8	28.4	0.005	0.011	No Message
N-3.60	C816	Pilote 100	50	Check	0.334	B.2.4.5-8	28.4	0.005	0.011	No Message
N-3.60	C817	Pilote 100	0	Check	0.334	B.2.4.5-8	28.4	0.010	0.017	No Message
N-3.60	C817	Pilote 100	25	Check	0.33	B.2.4.5-8	28.4	0.010	0.017	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C817	Pilote 100	50	Check	0.326	B.2.4.5-8	28.4	0.010	0.017	No Message
N-3.60	C818	Pilote 100	0	Check	0.326	B.2.4.5-8	28.4	0.014	0.024	No Message
N-3.60	C818	Pilote 100	25	Check	0.315	B.2.4.5-8	28.4	0.014	0.024	No Message
N-3.60	C818	Pilote 100	50	Check	0.305	B.2.4.5-8	28.4	0.014	0.024	No Message
N-3.60	C819	Pilote 100	0	Check	0.305	B.2.4.5-8	28.4	0.020	0.031	No Message
N-3.60	C819	Pilote 100	25	Check	0.289	B.2.4.5-8	28.4	0.020	0.031	No Message
N-3.60	C819	Pilote 100	50	Check	0.273	B.2.4.5-8	28.4	0.020	0.031	No Message
N-3.60	C820	Pilote 100	0	Check	0.273	B.2.4.5-8	28.4	0.026	0.038	No Message
N-3.60	C820	Pilote 100	25	Check	0.283	B.2.4.1	28.4	0.026	0.038	No Message
N-3.60	C820	Pilote 100	50	Check	0.304	B.2.4.5-8	28.4	0.026	0.038	No Message
N-3.60	C821	Pilote 100	0	Check	0.304	B.2.4.5-8	28.4	0.031	0.045	No Message
N-3.60	C821	Pilote 100	25	Check	0.361	B.2.4.5-8	28.4	0.031	0.045	No Message
N-3.60	C821	Pilote 100	50	Check	0.422	B.2.4.5-8	28.4	0.031	0.045	No Message
N-3.60	C822	Pilote 100	0	Check	0.422	B.2.4.5-8	28.4	0.036	0.052	No Message
N-3.60	C822	Pilote 100	25	Check	0.491	B.2.4.5-8	28.4	0.036	0.052	No Message
N-3.60	C822	Pilote 100	50	Check	0.56	B.2.4.5-8	28.4	0.036	0.052	No Message
N-3.60	C823	Pilote 100	0	Check	0.56	B.2.4.5-8	28.4	0.041	0.057	No Message
N-3.60	C823	Pilote 100	25	Check	0.636	B.2.4.5-8	28.4	0.041	0.057	No Message
N-3.60	C823	Pilote 100	50	Check	0.713	B.2.4.5-8	28.4	0.041	0.057	No Message
N-3.60	C824	Pilote 100	0	Check	0.713	B.2.4.5-8	28.4	0.045	0.062	No Message
N-3.60	C824	Pilote 100	25	Check	0.797	B.2.4.5-8	28.4	0.045	0.062	No Message
N-3.60	C824	Pilote 100	50	Check	0.884	B.2.4.5-8	28.4	0.045	0.062	No Message
N-3.60	C825	Pilote 100	0	Check	0.884	B.2.4.5-8	28.4	0.045	0.000	No Message
N-3.60	C825	Pilote 100	0.1	Check	0.884	B.2.4.5-8	28.4	0.045	0.000	No Message
N-3.60	C825	Pilote 100	0.2	Check	0.884	B.2.4.5-8	28.4	0.045	0.000	No Message
N-3.60	C826	Pilote 100	0	Check	0.004	B.2.4.1	28.4	0.006	0.004	No Message
N-3.60	C826	Pilote 100	25	Check	0.004	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C826	Pilote 100	50	Check	0.007	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C827	Pilote 100	0	Check	0.007	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C827	Pilote 100	25	Check	0.014	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C827	Pilote 100	50	Check	0.023	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C828	Pilote 100	0	Check	0.023	B.2.4.7-4	28.4	0.003	0.003	No Message
N-3.60	C828	Pilote 100	25	Check	0.029	B.2.4.7-4	28.4	0.003	0.003	No Message
N-3.60	C828	Pilote 100	50	Check	0.037	B.2.4.5-3	28.4	0.003	0.003	No Message
N-3.60	C829	Pilote 100	0	Check	0.037	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C829	Pilote 100	25	Check	0.045	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C829	Pilote 100	50	Check	0.053	B.2.4.5-3	28.4	0.003	0.004	No Message
N-3.60	C830	Pilote 100	0	Check	0.053	B.2.4.5-3	28.4	0.004	0.005	No Message
N-3.60	C830	Pilote 100	25	Check	0.062	B.2.4.5-3	28.4	0.004	0.005	No Message
N-3.60	C830	Pilote 100	50	Check	0.071	B.2.4.5-8	28.4	0.004	0.005	No Message
N-3.60	C831	Pilote 100	0	Check	0.071	B.2.4.5-8	28.4	0.005	0.006	No Message
N-3.60	C831	Pilote 100	25	Check	0.083	B.2.4.5-8	28.4	0.005	0.006	No Message
N-3.60	C831	Pilote 100	50	Check	0.095	B.2.4.5-8	28.4	0.005	0.006	No Message
N-3.60	C832	Pilote 100	0	Check	0.095	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C832	Pilote 100	25	Check	0.108	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C832	Pilote 100	50	Check	0.121	B.2.4.5-8	28.4	0.006	0.007	No Message
N-3.60	C833	Pilote 100	0	Check	0.121	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C833	Pilote 100	25	Check	0.136	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C833	Pilote 100	50	Check	0.151	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C834	Pilote 100	0	Check	0.151	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C834	Pilote 100	25	Check	0.166	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C834	Pilote 100	50	Check	0.181	B.2.4.5-8	28.4	0.007	0.008	No Message
N-3.60	C835	Pilote 100	0	Check	0.181	B.2.4.5-8	28.4	0.008	0.008	No Message
N-3.60	C835	Pilote 100	25	Check	0.197	B.2.4.5-8	28.4	0.008	0.008	No Message
N-3.60	C835	Pilote 100	50	Check	0.213	B.2.4.5-8	28.4	0.008	0.008	No Message
N-3.60	C836	Pilote 100	0	Check	0.213	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C836	Pilote 100	25	Check	0.228	B.2.4.5-8	28.4	0.007	0.007	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C836	Pilote 100	50	Check	0.243	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C837	Pilote 100	0	Check	0.243	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C837	Pilote 100	25	Check	0.257	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C837	Pilote 100	50	Check	0.271	B.2.4.5-8	28.4	0.007	0.007	No Message
N-3.60	C838	Pilote 100	0	Check	0.271	B.2.4.5-8	28.4	0.006	0.006	No Message
N-3.60	C838	Pilote 100	25	Check	0.283	B.2.4.5-8	28.4	0.006	0.006	No Message
N-3.60	C838	Pilote 100	50	Check	0.295	B.2.4.5-8	28.4	0.006	0.006	No Message
N-3.60	C839	Pilote 100	0	Check	0.295	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C839	Pilote 100	25	Check	0.304	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C839	Pilote 100	50	Check	0.313	B.2.4.5-8	28.4	0.005	0.005	No Message
N-3.60	C840	Pilote 100	0	Check	0.313	B.2.4.5-8	28.4	0.003	0.001	No Message
N-3.60	C840	Pilote 100	25	Check	0.318	B.2.4.5-8	28.4	0.003	0.001	No Message
N-3.60	C840	Pilote 100	50	Check	0.323	B.2.4.5-8	28.4	0.003	0.001	No Message
N-3.60	C841	Pilote 100	0	Check	0.323	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C841	Pilote 100	25	Check	0.324	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C841	Pilote 100	50	Check	0.329	B.2.4.5-8	28.4	0.002	0.004	No Message
N-3.60	C842	Pilote 100	0	Check	0.329	B.2.4.5-8	28.4	0.006	0.010	No Message
N-3.60	C842	Pilote 100	25	Check	0.331	B.2.4.5-8	28.4	0.006	0.010	No Message
N-3.60	C842	Pilote 100	50	Check	0.333	B.2.4.5-8	28.4	0.006	0.010	No Message
N-3.60	C843	Pilote 100	0	Check	0.333	B.2.4.5-8	28.4	0.011	0.015	No Message
N-3.60	C843	Pilote 100	25	Check	0.331	B.2.4.5-8	28.4	0.011	0.015	No Message
N-3.60	C843	Pilote 100	50	Check	0.328	B.2.4.5-8	28.4	0.011	0.015	No Message
N-3.60	C844	Pilote 100	0	Check	0.328	B.2.4.5-8	28.4	0.016	0.021	No Message
N-3.60	C844	Pilote 100	25	Check	0.32	B.2.4.5-8	28.4	0.016	0.021	No Message
N-3.60	C844	Pilote 100	50	Check	0.311	B.2.4.5-8	28.4	0.016	0.021	No Message
N-3.60	C845	Pilote 100	0	Check	0.311	B.2.4.5-8	28.4	0.022	0.028	No Message
N-3.60	C845	Pilote 100	25	Check	0.297	B.2.4.5-8	28.4	0.022	0.028	No Message
N-3.60	C845	Pilote 100	50	Check	0.282	B.2.4.5-8	28.4	0.022	0.028	No Message
N-3.60	C846	P100R	0	Check	0.158	B.2.4.5-8	51	0.028	0.034	No Message
N-3.60	C846	P100R	25	Check	0.16	B.2.4.1	51	0.028	0.034	No Message
N-3.60	C846	P100R	50	Check	0.17	B.2.4.5-8	51	0.028	0.034	No Message
N-3.60	C847	Pilote 100	0	Check	0.303	B.2.4.5-8	28.4	0.033	0.041	No Message
N-3.60	C847	Pilote 100	25	Check	0.36	B.2.4.5-8	28.4	0.033	0.041	No Message
N-3.60	C847	Pilote 100	50	Check	0.418	B.2.4.5-8	28.4	0.033	0.041	No Message
N-3.60	C848	Pilote 100	0	Check	0.418	B.2.4.5-8	28.4	0.039	0.047	No Message
N-3.60	C848	Pilote 100	25	Check	0.483	B.2.4.5-8	28.4	0.039	0.047	No Message
N-3.60	C848	Pilote 100	50	Check	0.548	B.2.4.5-8	28.4	0.039	0.047	No Message
N-3.60	C849	Pilote 100	0	Check	0.548	B.2.4.5-8	28.4	0.044	0.052	No Message
N-3.60	C849	Pilote 100	25	Check	0.62	B.2.4.5-8	28.4	0.044	0.052	No Message
N-3.60	C849	Pilote 100	50	Check	0.693	B.2.4.5-8	28.4	0.044	0.052	No Message
N-3.60	C850	Pilote 100	0	Check	0.693	B.2.4.5-8	28.4	0.048	0.056	No Message
N-3.60	C850	Pilote 100	25	Check	0.772	B.2.4.5-8	28.4	0.048	0.056	No Message
N-3.60	C850	Pilote 100	50	Check	0.854	B.2.4.5-8	28.4	0.048	0.056	No Message
N-3.60	C851	Pilote 100	0	Check	0.854	B.2.4.5-8	28.4	0.716	0.000	No Message
N-3.60	C851	Pilote 100	0.1	Check	0.854	B.2.4.5-8	28.4	0.716	0.000	No Message
N-3.60	C851	Pilote 100	0.2	Check	0.855	B.2.4.5-8	28.4	0.716	0.000	No Message
N-3.60	C878	Pilote 100	0	Check	0.025	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C878	Pilote 100	25	Check	0.024	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C878	Pilote 100	50	Check	0.023	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C879	Pilote 100	0	Check	0.023	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C879	Pilote 100	25	Check	0.023	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C879	Pilote 100	50	Check	0.022	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C880	Pilote 100	0	Check	0.022	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C880	Pilote 100	25	Check	0.021	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C880	Pilote 100	50	Check	0.021	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C881	Pilote 100	0	Check	0.021	B.2.4.5-3	28.4	0.003	0.003	No Message
N-3.60	C881	Pilote 100	25	Check	0.02	B.2.4.5-3	28.4	0.003	0.003	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station	Design/Check	PMM Ratio	PMM Combo	As	At V Major	At V Minor	Warnings
			cm				cm ²	cm ² /cm	cm ² /cm	
N-3.60	C881	Pilote 100	50	Check	0.019	B.2.4.5-3	28.4	0.003	0.003	No Message
N-3.60	C882	Pilote 100	0	Check	0.019	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C882	Pilote 100	25	Check	0.019	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C882	Pilote 100	50	Check	0.019	B.2.4.5-3	28.4	0.004	0.004	No Message
N-3.60	C883	Pilote 100	0	Check	0.019	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C883	Pilote 100	25	Check	0.019	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C883	Pilote 100	50	Check	0.02	B.2.4.5-3	28.4	0.005	0.005	No Message
N-3.60	C884	Pilote 100	0	Check	0.02	B.2.4.5-3	28.4	0.005	0.006	No Message
N-3.60	C884	Pilote 100	25	Check	0.027	B.2.4.7-4	28.4	0.005	0.006	No Message
N-3.60	C884	Pilote 100	50	Check	0.036	B.2.4.7-4	28.4	0.005	0.006	No Message
N-3.60	C885	Pilote 100	0	Check	0.036	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C885	Pilote 100	25	Check	0.049	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C885	Pilote 100	50	Check	0.061	B.2.4.7-4	28.4	0.006	0.007	No Message
N-3.60	C886	Pilote 100	0	Check	0.061	B.2.4.7-4	28.4	0.007	0.007	No Message
N-3.60	C886	Pilote 100	25	Check	0.074	B.2.4.7-4	28.4	0.007	0.007	No Message
N-3.60	C886	Pilote 100	50	Check	0.088	B.2.4.7-4	28.4	0.007	0.007	No Message
N-3.60	C887	Pilote 100	0	Check	0.088	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C887	Pilote 100	25	Check	0.102	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C887	Pilote 100	50	Check	0.116	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C888	Pilote 100	0	Check	0.116	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C888	Pilote 100	25	Check	0.13	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C888	Pilote 100	50	Check	0.144	B.2.4.7-4	28.4	0.008	0.008	No Message
N-3.60	C889	Pilote 100	0	Check	0.144	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C889	Pilote 100	25	Check	0.158	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C889	Pilote 100	50	Check	0.172	B.2.4.7-4	28.4	0.008	0.007	No Message
N-3.60	C890	Pilote 100	0	Check	0.172	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C890	Pilote 100	25	Check	0.185	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C890	Pilote 100	50	Check	0.197	B.2.4.7-4	28.4	0.007	0.006	No Message
N-3.60	C891	Pilote 100	0	Check	0.197	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C891	Pilote 100	25	Check	0.208	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C891	Pilote 100	50	Check	0.219	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C892	Pilote 100	0	Check	0.219	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C892	Pilote 100	25	Check	0.226	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C892	Pilote 100	50	Check	0.234	B.2.4.7-4	28.4	0.004	0.003	No Message
N-3.60	C893	Pilote 100	0	Check	0.234	B.2.4.7-4	28.4	0.002	0.002	No Message
N-3.60	C893	Pilote 100	25	Check	0.238	B.2.4.7-4	28.4	0.002	0.002	No Message
N-3.60	C893	Pilote 100	50	Check	0.242	B.2.4.7-4	28.4	0.002	0.002	No Message
N-3.60	C894	Pilote 100	0	Check	0.242	B.2.4.7-4	28.4	0.003	0.005	No Message
N-3.60	C894	Pilote 100	25	Check	0.241	B.2.4.7-4	28.4	0.003	0.005	No Message
N-3.60	C894	Pilote 100	50	Check	0.241	B.2.4.7-4	28.4	0.003	0.005	No Message
N-3.60	C895	Pilote 100	0	Check	0.241	B.2.4.7-4	28.4	0.006	0.010	No Message
N-3.60	C895	Pilote 100	25	Check	0.235	B.2.4.7-4	28.4	0.006	0.010	No Message
N-3.60	C895	Pilote 100	50	Check	0.229	B.2.4.7-4	28.4	0.006	0.010	No Message
N-3.60	C896	Pilote 100	0	Check	0.229	B.2.4.7-4	28.4	0.011	0.015	No Message
N-3.60	C896	Pilote 100	25	Check	0.217	B.2.4.7-4	28.4	0.011	0.015	No Message
N-3.60	C896	Pilote 100	50	Check	0.206	B.2.4.7-4	28.4	0.011	0.015	No Message
N-3.60	C897	Pilote 100	0	Check	0.206	B.2.4.7-4	28.4	0.016	0.021	No Message
N-3.60	C897	Pilote 100	25	Check	0.189	B.2.4.7-4	28.4	0.016	0.021	No Message
N-3.60	C897	Pilote 100	50	Check	0.173	B.2.4.7-4	28.4	0.016	0.021	No Message
N-3.60	C898	Pilote 100	0	Check	0.173	B.2.4.7-4	28.4	0.021	0.027	No Message
N-3.60	C898	Pilote 100	25	Check	0.151	B.2.4.7-4	28.4	0.021	0.027	No Message
N-3.60	C898	Pilote 100	50	Check	0.136	B.2.4.7-4	28.4	0.021	0.027	No Message
N-3.60	C899	Pilote 100	0	Check	0.136	B.2.4.7-4	28.4	0.026	0.033	No Message
N-3.60	C899	Pilote 100	25	Check	0.145	B.2.4.5-3	28.4	0.026	0.033	No Message
N-3.60	C899	Pilote 100	50	Check	0.178	B.2.4.5-8	28.4	0.026	0.033	No Message
N-3.60	C900	Pilote 100	0	Check	0.178	B.2.4.5-8	28.4	0.032	0.039	No Message
N-3.60	C900	Pilote 100	25	Check	0.227	B.2.4.5-8	28.4	0.032	0.039	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C900	Pilote 100	50	Check	0.276	B.2.4.5-8	28.4	0.032	0.039	No Message
N-3.60	C901	Pilote 100	0	Check	0.276	B.2.4.5-8	28.4	0.036	0.044	No Message
N-3.60	C901	Pilote 100	25	Check	0.332	B.2.4.5-8	28.4	0.036	0.044	No Message
N-3.60	C901	Pilote 100	50	Check	0.392	B.2.4.5-8	28.4	0.036	0.044	No Message
N-3.60	C902	Pilote 100	0	Check	0.392	B.2.4.5-8	28.4	0.040	0.048	No Message
N-3.60	C902	Pilote 100	25	Check	0.457	B.2.4.5-8	28.4	0.040	0.048	No Message
N-3.60	C902	Pilote 100	50	Check	0.522	B.2.4.5-8	28.4	0.040	0.048	No Message
N-3.60	C903	Pilote 100	0	Check	0.522	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C903	Pilote 100	0.1	Check	0.522	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C903	Pilote 100	0.2	Check	0.523	B.2.4.5-8	28.4	0.000	0.000	No Message
N-3.60	C5	Pilote 100	0	Check	0.026	B.2.4.5-3	28.4	0.002	0.003	No Message
N-3.60	C5	Pilote 100	25	Check	0.025	B.2.4.5-3	28.4	0.002	0.003	No Message
N-3.60	C5	Pilote 100	50	Check	0.024	B.2.4.5-3	28.4	0.002	0.003	No Message
N-3.60	C10	Pilote 100	0	Check	0.024	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C10	Pilote 100	25	Check	0.023	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C10	Pilote 100	50	Check	0.023	B.2.4.5-3	28.4	0.002	0.002	No Message
N-3.60	C11	Pilote 100	0	Check	0.023	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C11	Pilote 100	25	Check	0.022	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C11	Pilote 100	50	Check	0.021	B.2.4.5-3	28.4	0.003	0.002	No Message
N-3.60	C12	Pilote 100	0	Check	0.021	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C12	Pilote 100	25	Check	0.021	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C12	Pilote 100	50	Check	0.02	B.2.4.5-3	28.4	0.004	0.003	No Message
N-3.60	C13	Pilote 100	0	Check	0.02	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C13	Pilote 100	25	Check	0.02	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C13	Pilote 100	50	Check	0.02	B.2.4.5-3	28.4	0.005	0.003	No Message
N-3.60	C15	Pilote 100	0	Check	0.02	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C15	Pilote 100	25	Check	0.02	B.2.4.5-3	28.4	0.006	0.004	No Message
N-3.60	C15	Pilote 100	50	Check	0.028	B.2.4.7-4	28.4	0.006	0.004	No Message
N-3.60	C23	Pilote 100	0	Check	0.028	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C23	Pilote 100	25	Check	0.04	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C23	Pilote 100	50	Check	0.052	B.2.4.7-4	28.4	0.007	0.005	No Message
N-3.60	C26	Pilote 100	0	Check	0.052	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C26	Pilote 100	25	Check	0.066	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C26	Pilote 100	50	Check	0.079	B.2.4.7-4	28.4	0.008	0.006	No Message
N-3.60	C38	Pilote 100	0	Check	0.079	B.2.4.7-4	28.4	0.009	0.007	No Message
N-3.60	C38	Pilote 100	25	Check	0.094	B.2.4.7-4	28.4	0.009	0.007	No Message
N-3.60	C38	Pilote 100	50	Check	0.108	B.2.4.7-4	28.4	0.009	0.007	No Message
N-3.60	C592	Pilote 100	0	Check	0.108	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C592	Pilote 100	25	Check	0.123	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C592	Pilote 100	50	Check	0.138	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C593	Pilote 100	0	Check	0.138	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C593	Pilote 100	25	Check	0.154	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C593	Pilote 100	50	Check	0.169	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C594	Pilote 100	0	Check	0.169	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C594	Pilote 100	25	Check	0.183	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C594	Pilote 100	50	Check	0.198	B.2.4.7-4	28.4	0.009	0.008	No Message
N-3.60	C595	Pilote 100	0	Check	0.198	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C595	Pilote 100	25	Check	0.211	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C595	Pilote 100	50	Check	0.224	B.2.4.7-4	28.4	0.007	0.008	No Message
N-3.60	C596	Pilote 100	0	Check	0.224	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C596	Pilote 100	25	Check	0.235	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C596	Pilote 100	50	Check	0.246	B.2.4.7-4	28.4	0.005	0.007	No Message
N-3.60	C597	Pilote 100	0	Check	0.246	B.2.4.7-4	28.4	0.003	0.006	No Message
N-3.60	C597	Pilote 100	25	Check	0.253	B.2.4.7-4	28.4	0.003	0.006	No Message
N-3.60	C597	Pilote 100	50	Check	0.26	B.2.4.7-4	28.4	0.003	0.006	No Message
N-3.60	C598	Pilote 100	0	Check	0.26	B.2.4.7-4	28.4	0.002	0.005	No Message
N-3.60	C598	Pilote 100	25	Check	0.264	B.2.4.7-4	28.4	0.002	0.005	No Message

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C598	Pilote 100	50	Check	0.267	B.2.4.7-4	28.4	0.002	0.005	No Message
N-3.60	C599	Pilote 100	0	Check	0.267	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C599	Pilote 100	25	Check	0.265	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C599	Pilote 100	50	Check	0.264	B.2.4.7-4	28.4	0.006	0.005	No Message
N-3.60	C600	Pilote 100	0	Check	0.264	B.2.4.7-4	28.4	0.012	0.007	No Message
N-3.60	C600	Pilote 100	25	Check	0.255	B.2.4.7-4	28.4	0.012	0.007	No Message
N-3.60	C600	Pilote 100	50	Check	0.248	B.2.4.7-4	28.4	0.012	0.007	No Message
N-3.60	C601	Pilote 100	0	Check	0.248	B.2.4.7-4	28.4	0.017	0.010	No Message
N-3.60	C601	Pilote 100	25	Check	0.236	B.2.4.7-4	28.4	0.017	0.010	No Message
N-3.60	C601	Pilote 100	50	Check	0.226	B.2.4.7-4	28.4	0.017	0.010	No Message
N-3.60	C602	Pilote 100	0	Check	0.226	B.2.4.7-4	28.4	0.024	0.015	No Message
N-3.60	C602	Pilote 100	25	Check	0.218	B.2.4.7-8	28.4	0.024	0.015	No Message
N-3.60	C602	Pilote 100	50	Check	0.212	B.2.4.7-8	28.4	0.024	0.015	No Message
N-3.60	C603	P100R	0	Check	0.124	B.2.4.7-8	51	0.031	0.020	No Message
N-3.60	C603	P100R	25	Check	0.118	B.2.4.7-8	51	0.031	0.020	No Message
N-3.60	C603	P100R	50	Check	0.114	B.2.4.7-8	51	0.031	0.020	No Message
N-3.60	C604	P100R	0	Check	0.114	B.2.4.7-8	51	0.038	0.026	No Message
N-3.60	C604	P100R	25	Check	0.121	B.2.4.5-3	51	0.038	0.026	No Message
N-3.60	C604	P100R	50	Check	0.139	B.2.4.7-4	51	0.038	0.026	No Message
N-3.60	C605	P100R	0	Check	0.139	B.2.4.7-4	51	0.045	0.031	No Message
N-3.60	C605	P100R	25	Check	0.165	B.2.4.7-4	51	0.045	0.031	No Message
N-3.60	C605	P100R	50	Check	0.196	B.2.4.7-4	51	0.045	0.031	No Message
N-3.60	C606	P100R	0	Check	0.196	B.2.4.7-4	51	0.051	0.036	No Message
N-3.60	C606	P100R	25	Check	0.232	B.2.4.7-4	51	0.051	0.036	No Message
N-3.60	C606	P100R	50	Check	0.269	B.2.4.7-4	51	0.051	0.036	No Message
N-3.60	C607	P100R	0	Check	0.269	B.2.4.7-4	51	0.055	0.040	No Message
N-3.60	C607	P100R	25	Check	0.311	B.2.4.5-3	51	0.055	0.040	No Message
N-3.60	C607	P100R	50	Check	0.355	B.2.4.5-3	51	0.055	0.040	No Message
N-3.60	C608	P100R	0	Check	0.355	B.2.4.5-3	51	0.000	0.551	No Message
N-3.60	C608	P100R	0.1	Check	0.355	B.2.4.5-3	51	0.000	0.551	No Message
N-3.60	C608	P100R	0.2	Check	0.355	B.2.4.5-3	51	0.000	0.551	No Message
N-3.60	C514	Pilote 100	0	Check	0.025	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C514	Pilote 100	25	Check	0.024	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C514	Pilote 100	50	Check	0.023	B.2.4.5-8	28.4	0.007	0.006	No Message
N-3.60	C515	Pilote 100	0	Check	0.023	B.2.4.5-8	28.4	0.006	0.004	No Message
N-3.60	C515	Pilote 100	25	Check	0.023	B.2.4.5-8	28.4	0.006	0.004	No Message
N-3.60	C515	Pilote 100	50	Check	0.022	B.2.4.5-8	28.4	0.006	0.004	No Message
N-3.60	C516	Pilote 100	0	Check	0.022	B.2.4.5-8	28.4	0.004	0.003	No Message
N-3.60	C516	Pilote 100	25	Check	0.028	B.2.4.7-8	28.4	0.004	0.003	No Message
N-3.60	C516	Pilote 100	50	Check	0.036	B.2.4.7-8	28.4	0.004	0.003	No Message
N-3.60	C517	Pilote 100	0	Check	0.036	B.2.4.7-8	28.4	0.004	0.003	No Message
N-3.60	C517	Pilote 100	25	Check	0.043	B.2.4.7-8	28.4	0.004	0.003	No Message
N-3.60	C517	Pilote 100	50	Check	0.051	B.2.4.7-8	28.4	0.004	0.003	No Message
N-3.60	C518	Pilote 100	0	Check	0.051	B.2.4.7-8	28.4	0.005	0.004	No Message
N-3.60	C518	Pilote 100	25	Check	0.058	B.2.4.7-8	28.4	0.005	0.004	No Message
N-3.60	C518	Pilote 100	50	Check	0.066	B.2.4.7-8	28.4	0.005	0.004	No Message
N-3.60	C519	Pilote 100	0	Check	0.066	B.2.4.7-8	28.4	0.006	0.005	No Message
N-3.60	C519	Pilote 100	25	Check	0.074	B.2.4.7-8	28.4	0.006	0.005	No Message
N-3.60	C519	Pilote 100	50	Check	0.082	B.2.4.7-8	28.4	0.006	0.005	No Message
N-3.60	C520	Pilote 100	0	Check	0.082	B.2.4.7-8	28.4	0.008	0.006	No Message
N-3.60	C520	Pilote 100	25	Check	0.092	B.2.4.7-8	28.4	0.008	0.006	No Message
N-3.60	C520	Pilote 100	50	Check	0.101	B.2.4.7-8	28.4	0.008	0.006	No Message
N-3.60	C521	Pilote 100	0	Check	0.101	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C521	Pilote 100	25	Check	0.112	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C521	Pilote 100	50	Check	0.123	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C522	Pilote 100	0	Check	0.123	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C522	Pilote 100	25	Check	0.134	B.2.4.7-8	28.4	0.009	0.007	No Message

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TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo	As cm ²	At V Major cm ² /cm	At V Minor cm ² /cm	Warnings
N-3.60	C522	Pilote 100	50	Check	0.146	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C523	Pilote 100	0	Check	0.146	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C523	Pilote 100	25	Check	0.158	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C523	Pilote 100	50	Check	0.169	B.2.4.7-8	28.4	0.009	0.007	No Message
N-3.60	C524	Pilote 100	0	Check	0.169	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C524	Pilote 100	25	Check	0.181	B.2.4.7-8	28.4	0.008	0.008	No Message
N-3.60	C524	Pilote 100	50	Check	0.193	B.2.4.5-8	28.4	0.008	0.008	No Message
N-3.60	C525	Pilote 100	0	Check	0.193	B.2.4.5-8	28.4	0.010	0.008	No Message
N-3.60	C525	Pilote 100	25	Check	0.205	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C525	Pilote 100	50	Check	0.217	B.2.4.5-3	28.4	0.010	0.008	No Message
N-3.60	C526	Pilote 100	0	Check	0.217	B.2.4.5-3	28.4	0.013	0.008	No Message
N-3.60	C526	Pilote 100	25	Check	0.227	B.2.4.5-3	28.4	0.013	0.008	No Message
N-3.60	C526	Pilote 100	50	Check	0.236	B.2.4.5-3	28.4	0.013	0.008	No Message
N-3.60	C527	Pilote 100	0	Check	0.236	B.2.4.5-3	28.4	0.016	0.007	No Message
N-3.60	C527	Pilote 100	25	Check	0.242	B.2.4.5-3	28.4	0.016	0.007	No Message
N-3.60	C527	Pilote 100	50	Check	0.25	B.2.4.7-8	28.4	0.016	0.007	No Message
N-3.60	C528	Pilote 100	0	Check	0.25	B.2.4.7-8	28.4	0.015	0.006	No Message
N-3.60	C528	Pilote 100	25	Check	0.258	B.2.4.7-8	28.4	0.015	0.006	No Message
N-3.60	C528	Pilote 100	50	Check	0.267	B.2.4.7-8	28.4	0.015	0.006	No Message
N-3.60	C529	Pilote 100	0	Check	0.267	B.2.4.7-8	28.4	0.007	0.001	No Message
N-3.60	C529	Pilote 100	25	Check	0.28	B.2.4.7-8	28.4	0.007	0.001	No Message
N-3.60	C529	Pilote 100	50	Check	0.306	B.2.4.5-3	28.4	0.007	0.001	No Message
N-3.60	C530	Pilote 100	0	Check	0.306	B.2.4.5-3	28.4	0.012	0.002	No Message
N-3.60	C530	Pilote 100	25	Check	0.337	B.2.4.5-3	28.4	0.012	0.002	No Message
N-3.60	C530	Pilote 100	50	Check	0.369	B.2.4.5-3	28.4	0.012	0.002	No Message
N-3.60	C531	Pilote 100	0	Check	0.369	B.2.4.5-3	28.4	0.014	0.011	No Message
N-3.60	C531	Pilote 100	25	Check	0.403	B.2.4.5-3	28.4	0.014	0.011	No Message
N-3.60	C531	Pilote 100	50	Check	0.436	B.2.4.5-3	28.4	0.014	0.011	No Message
N-3.60	C532	Pilote 100	0	Check	0.436	B.2.4.5-3	28.4	0.018	0.016	No Message
N-3.60	C532	Pilote 100	25	Check	0.47	B.2.4.5-3	28.4	0.018	0.016	No Message
N-3.60	C532	Pilote 100	50	Check	0.504	B.2.4.5-3	28.4	0.018	0.016	No Message
N-3.60	C533	P100R	0	Check	0.297	B.2.4.5-3	51	0.020	0.022	No Message
N-3.60	C533	P100R	25	Check	0.317	B.2.4.5-3	51	0.020	0.022	No Message
N-3.60	C533	P100R	50	Check	0.339	B.2.4.5-3	51	0.020	0.022	No Message
N-3.60	C534	P100R	0	Check	0.339	B.2.4.5-3	51	0.022	0.028	No Message
N-3.60	C534	P100R	25	Check	0.362	B.2.4.5-3	51	0.022	0.028	No Message
N-3.60	C534	P100R	50	Check	0.391	B.2.4.5-8	51	0.022	0.028	No Message
N-3.60	C535	P100R	0	Check	0.391	B.2.4.5-8	51	0.024	0.033	No Message
N-3.60	C535	P100R	25	Check	0.422	B.2.4.5-8	51	0.024	0.033	No Message
N-3.60	C535	P100R	50	Check	0.456	B.2.4.5-8	51	0.024	0.033	No Message
N-3.60	C536	P100R	0	Check	0.456	B.2.4.5-8	51	0.025	0.039	No Message
N-3.60	C536	P100R	25	Check	0.493	B.2.4.5-8	51	0.025	0.039	No Message
N-3.60	C536	P100R	50	Check	0.534	B.2.4.5-8	51	0.025	0.039	No Message
N-3.60	C537	P100R	0	Check	0.534	B.2.4.5-8	51	0.049	0.043	No Message
N-3.60	C537	P100R	25	Check	0.579	B.2.4.5-8	51	0.049	0.043	No Message
N-3.60	C537	P100R	50	Check	0.625	B.2.4.5-8	51	0.049	0.043	No Message
N-3.60	C538	P100R	0	Check	0.625	B.2.4.5-8	51	0.053	0.047	No Message
N-3.60	C538	P100R	25	Check	0.674	B.2.4.5-8	51	0.053	0.047	No Message
N-3.60	C538	P100R	50	Check	0.725	B.2.4.5-8	51	0.053	0.047	No Message
N-3.60	C539	P100R	0	Check	0.725	B.2.4.5-8	51	0.000	0.000	No Message
N-3.60	C539	P100R	0.1	Check	0.725	B.2.4.5-8	51	0.000	0.000	No Message
N-3.60	C539	P100R	0.2	Check	0.725	B.2.4.5-8	51	0.000	0.000	No Message

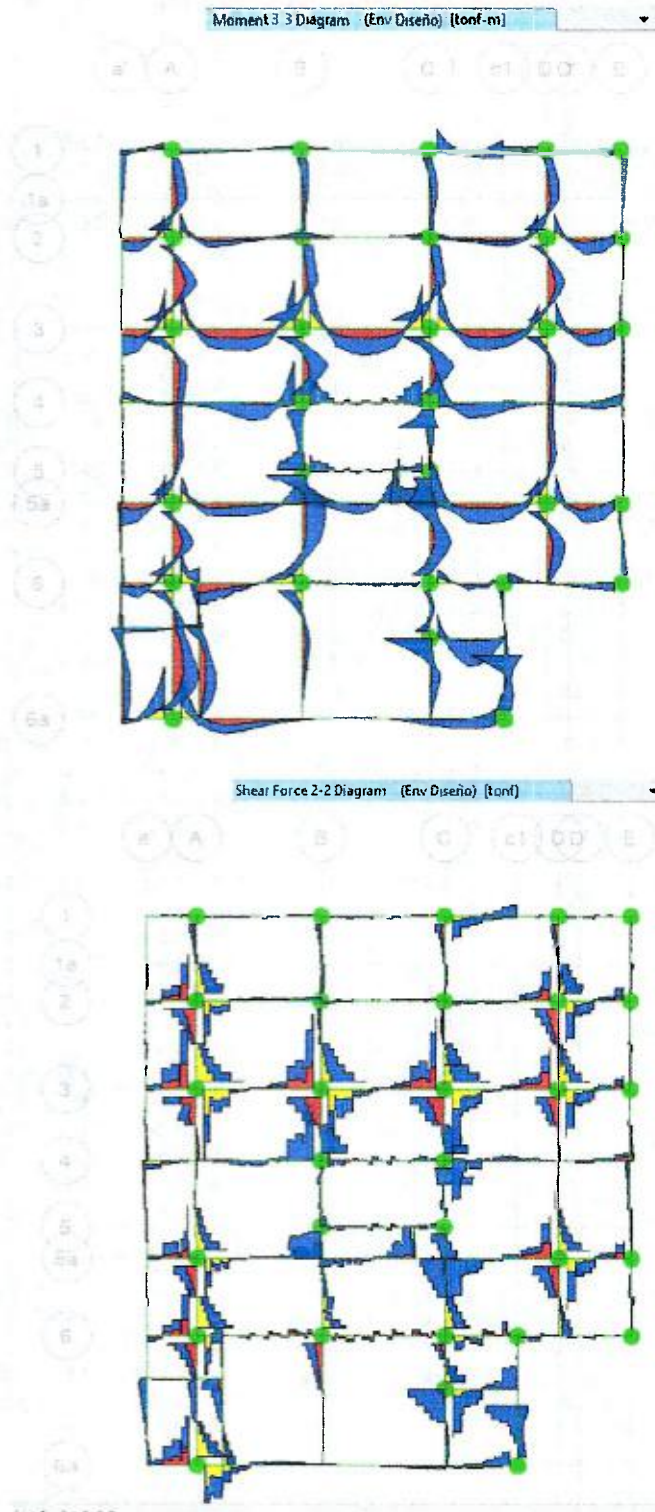
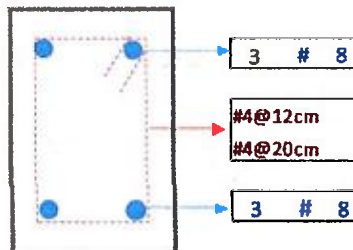


Figura 37 Diagramas de Momento y cortante en vigas principales cimentación Edificio B

SECCIÓN: VIGA CIMENTACION 50 x 100

Base	50 cm
Altura	100 cm
Recubrimiento	7.5 cm
f'_c	3000 psi
	21 MPa
f_y	420 MPa
ρ_{min}	0.0033
$A_{s,min}$	15.3 cm ²



Refuerzo Base 3 # 8
Ast. Base: 15.3 cm²
 OK, Cumples Acero mínimo

ρ_b 0.0213
 $\rho_{max} = 0.75 \cdot \rho_b$ 0.0159
Ast.max 74 cm²
 OK, Cumples Cuantía Máxima

Refuerzo	3 # 8	26 cm ²
Superior	2 # 8	
Refuerzo	3 # 8	41 cm ²
Inferior	5 # 8	
$0.63 \cdot \rho_b \cdot b \cdot d$: 64 cm ² $(Ast1 - Ast2) < 0.63 \cdot \rho_b \cdot b \cdot d$ Ok, El diseño es SubReforzado		

Separación Zona Confinada $x < 2H$ y Zona de Traslapos
X: cara del apoyo 200.0 cm
$d/4$ 23.8 cm
$8 \cdot bd$ 20.3 cm
24*db E # 4 30.5 cm
Menor a 30cm 30.0 cm
Separación Máxima 20.3 cm
Separación Usada 12.0 cm

Separación Zona NO Confinada $x > 2H$
Distancia 2H 200.0 cm
$d/2$ 46.2 cm
Separación Máxima 46.2 cm
Separación Usada 20.0 cm

Revisión Cortante

Shear V2

Max = 74.39 tonf
 at 99.3333 cm
 Min = -106.97 tonf
 at 347.6667 cm

$V_u = 107.0$ ton

$\frac{\phi \sqrt{f'_c}}{6} = 5.84 \text{ kg/cm}^2$ Av: 3 ramas

$\frac{\phi V_n}{b_w d} = \frac{\phi \sqrt{f'_c}}{6} + \frac{\phi A_v \cdot f_y}{b_w s}$

$\frac{\phi V_n}{b_w d} = 121.3$ ton

$\frac{V_u}{b_w d} < \frac{\phi V_n}{b_w d}$: Cumple

$\frac{V_{ud}}{b_w d} = 23.1 \text{ kg/cm}^2$

$\frac{\phi A_v \cdot f_y}{b_w s} = 20.4 \text{ kg/cm}^2$

$\frac{\phi V_n}{b_w d} = 26.2 \text{ kg/cm}^2$

Tabla 25 Reporte de diseño de vigas de cimentación Edificio B

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B5	1488	VC0.5x1	8.0	B.2.4.5-8	4.00	3.30	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	33.8	B.2.4.5-8	4.70	4.70	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	59.5	B.2.4.5-8	4.70	4.70	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	59.5	B.2.4.5-8	4.80	4.80	0.04	15.40	0.06
N-3.60	B5	1488	VC0.5x1	85.3	B.2.4.5-8	4.80	4.80	0.04	15.40	0.06
N-3.60	B5	1488	VC0.5x1	111.0	B.2.4.5-8	4.80	4.80	0.04	15.40	0.06
N-3.60	B5	1488	VC0.5x1	111.0	B.2.4.5-3	6.10	4.90	0.04	13.30	0.05
N-3.60	B5	1488	VC0.5x1	136.7	B.2.4.5-3	5.70	4.90	0.04	13.30	0.05
N-3.60	B5	1488	VC0.5x1	162.5	B.2.4.5-3	5.50	4.90	0.04	13.30	0.05
N-3.60	B5	1488	VC0.5x1	162.5	B.2.4.5-3	6.70	5.10	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	188.3	B.2.4.5-3	6.70	5.40	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	214.0	B.2.4.5-3	6.70	5.80	0.04	14.40	0.05
N-3.60	B5	1488	VC0.5x1	214.0	B.2.4.5-3	8.00	7.10	0.04	14.50	0.05
N-3.60	B5	1488	VC0.5x1	239.8	B.2.4.5-3	8.00	7.20	0.04	14.50	0.05
N-3.60	B5	1488	VC0.5x1	265.5	B.2.4.5-3	8.00	7.30	0.04	14.50	0.05
N-3.60	B5	1488	VC0.5x1	265.5	B.2.4.5-8	2.50	2.50	0.00	0.00	0.00
N-3.60	B5	1488	VC0.5x1	266.0	B.2.4.5-8	2.50	2.50	0.00	0.00	0.00
N-3.60	B5	1488	VC0.5x1	266.0	B.2.4.7-4	11.10	29.70	0.13	0.00	0.00
N-3.60	B5	1488	VC0.5x1	291.5	B.2.4.7-4	9.10	22.30	0.13	0.00	0.00
N-3.60	B5	1488	VC0.5x1	317.0	B.2.4.7-4	7.30	15.40	0.13	0.00	0.00
N-3.60	B5	1488	VC0.5x1	317.0	B.2.4.7-4	7.00	15.40	0.14	0.00	0.00
N-3.60	B5	1488	VC0.5x1	342.8	B.2.4.7-8	5.90	14.70	0.14	0.00	0.00
N-3.60	B5	1488	VC0.5x1	368.5	B.2.4.7-8	6.40	12.10	0.15	0.00	0.00
N-3.60	B5	1488	VC0.5x1	368.5	B.2.4.7-8	6.60	12.00	0.12	0.00	0.00
N-3.60	B5	1488	VC0.5x1	370.0	B.2.4.7-8	6.60	12.00	0.12	0.00	0.00
N-3.60	B6	1423	VC0.5x1	49.7	B.2.4.5-8	12.10	10.30	0.23	0.00	0.00
N-3.60	B6	1423	VC0.5x1	99.3	B.2.4.5-8	15.40	9.50	0.23	0.00	0.00
N-3.60	B6	1423	VC0.5x1	99.3	B.2.4.5-8	15.40	9.40	0.18	0.00	0.00
N-3.60	B6	1423	VC0.5x1	149.0	B.2.4.5-3	15.80	9.40	0.18	0.00	0.00
N-3.60	B6	1423	VC0.5x1	149.0	B.2.4.5-3	16.30	9.40	0.14	0.00	0.00
N-3.60	B6	1423	VC0.5x1	198.7	B.2.4.5-3	21.40	9.40	0.14	0.00	0.00
N-3.60	B6	1423	VC0.5x1	198.7	B.2.4.5-3	21.80	9.40	0.10	0.00	0.00
N-3.60	B6	1423	VC0.5x1	223.5	B.2.4.5-3	23.30	9.40	0.11	0.00	0.00
N-3.60	B6	1423	VC0.5x1	223.5	B.2.4.5-3	23.40	9.50	0.19	0.00	0.00
N-3.60	B6	1423	VC0.5x1	248.3	B.2.4.5-3	20.80	9.50	0.19	0.00	0.00
N-3.60	B6	1423	VC0.5x1	248.3	B.2.4.5-3	20.10	9.50	0.25	0.00	0.00
N-3.60	B6	1423	VC0.5x1	298.0	B.2.4.5-3	15.40	9.50	0.25	0.00	0.00
N-3.60	B6	1423	VC0.5x1	298.0	B.2.4.5-8	14.90	9.50	0.32	0.00	0.00
N-3.60	B6	1423	VC0.5x1	347.7	B.2.4.5-8	9.50	14.30	0.31	0.00	0.00
N-3.60	B6	1423	VC0.5x1	347.7	B.2.4.5-8	9.40	15.40	0.27	0.00	0.00
N-3.60	B6	1423	VC0.5x1	397.3	B.2.4.5-8	1.70	25.30	0.27	0.00	0.00
N-3.60	B9	1424	VC0.5x1	49.7	B.2.4.7-8	11.50	14.70	0.27	0.00	0.00
N-3.60	B9	1424	VC0.5x1	99.3	B.2.4.5-8	15.40	9.00	0.27	0.00	0.00
N-3.60	B9	1424	VC0.5x1	99.3	B.2.4.5-8	15.40	9.10	0.20	0.00	0.00
N-3.60	B9	1424	VC0.5x1	149.0	B.2.4.5-3	16.00	9.10	0.20	0.00	0.00
N-3.60	B9	1424	VC0.5x1	149.0	B.2.4.5-3	16.50	9.10	0.15	0.00	0.00
N-3.60	B9	1424	VC0.5x1	198.7	B.2.4.5-3	22.50	9.10	0.15	0.00	0.00
N-3.60	B9	1424	VC0.5x1	198.7	B.2.4.5-3	23.00	9.20	0.11	0.00	0.00
N-3.60	B9	1424	VC0.5x1	223.5	B.2.4.5-3	24.80	9.20	0.11	0.00	0.00
N-3.60	B9	1424	VC0.5x1	223.5	B.2.4.5-3	24.90	9.20	0.18	0.00	0.00
N-3.60	B9	1424	VC0.5x1	248.3	B.2.4.5-3	22.40	9.20	0.18	0.00	0.00
N-3.60	B9	1424	VC0.5x1	248.3	B.2.4.5-3	21.60	9.20	0.24	0.00	0.00
N-3.60	B9	1424	VC0.5x1	298.0	B.2.4.5-3	15.40	9.20	0.24	0.00	0.00
N-3.60	B9	1424	VC0.5x1	298.0	B.2.4.5-3	15.40	9.20	0.31	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B9	1424	VC0.5x1	347.7	B.2.4.5-8	9.20	12.40	0.31	0.00	0.00
N-3.60	B9	1424	VC0.5x1	347.7	B.2.4.5-8	9.20	13.50	0.27	0.00	0.00
N-3.60	B9	1424	VC0.5x1	397.3	B.2.4.5-8	1.90	24.00	0.27	0.00	0.00
N-3.60	B10	1405	VC0.5x1	8.0	B.2.4.7-4	6.90	26.30	0.00	28.60	0.11
N-3.60	B10	1405	VC0.5x1	33.8	B.2.4.5-3	12.30	25.00	0.00	28.60	0.11
N-3.60	B10	1405	VC0.5x1	59.5	B.2.4.5-3	12.30	23.50	0.00	28.60	0.11
N-3.60	B10	1405	VC0.5x1	59.5	B.2.4.5-3	12.20	17.30	0.00	27.00	0.10
N-3.60	B10	1405	VC0.5x1	84.0	B.2.4.5-3	12.20	17.10	0.00	27.00	0.10
N-3.60	B10	1405	VC0.5x1	84.0	B.2.4.5-3	15.40	15.40	0.16	13.10	0.04
N-3.60	B10	1405	VC0.5x1	111.0	B.2.4.5-3	15.40	15.40	0.16	13.10	0.04
N-3.60	B10	1405	VC0.5x1	111.0	B.2.4.5-3	15.30	15.30	0.15	14.10	0.03
N-3.60	B10	1405	VC0.5x1	136.7	B.2.4.5-3	15.30	15.30	0.15	14.10	0.03
N-3.60	B10	1405	VC0.5x1	162.5	B.2.4.5-3	15.30	15.30	0.15	14.10	0.03
N-3.60	B10	1405	VC0.5x1	162.5	B.2.4.5-3	15.40	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	168.0	B.2.4.5-3	15.40	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	168.0	B.2.4.5-3	15.40	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	214.0	B.2.4.5-3	15.40	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	214.0	B.2.4.5-3	15.40	15.40	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	252.0	B.2.4.5-3	15.40	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	252.0	B.2.4.5-3	15.00	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	265.5	B.2.4.5-3	15.00	15.40	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	265.5	B.2.4.5-3	15.30	15.40	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	291.2	B.2.4.5-3	15.30	15.40	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	317.0	B.2.4.5-3	15.30	15.40	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	317.0	B.2.4.5-3	15.30	18.50	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	336.0	B.2.4.5-3	15.30	18.60	0.15	0.00	0.00
N-3.60	B10	1405	VC0.5x1	336.0	B.2.4.5-8	11.50	16.50	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	368.5	B.2.4.5-8	11.50	16.10	0.16	0.00	0.00
N-3.60	B10	1405	VC0.5x1	368.5	B.2.4.5-8	11.50	15.40	0.17	0.00	0.00
N-3.60	B10	1405	VC0.5x1	370.0	B.2.4.7-8	8.30	15.40	0.17	0.00	0.00
N-3.60	B13	1419	VC0.5x1	50.0	B.2.4.5-3	1.00	48.20	0.00	0.00	0.00
N-3.60	B13	1419	VC0.5x1	50.6	B.2.4.5-3	15.30	47.70	0.00	0.00	0.00
N-3.60	B13	1419	VC0.5x1	50.6	B.2.4.5-3	15.40	46.10	0.00	0.00	0.00
N-3.60	B13	1419	VC0.5x1	76.0	B.2.4.5-3	15.40	30.30	0.00	0.00	0.00
N-3.60	B13	1419	VC0.5x1	101.3	B.2.4.5-3	15.40	16.10	0.00	0.00	0.00
N-3.60	B13	1419	VC0.5x1	101.3	B.2.4.5-3	15.40	15.40	0.27	0.00	0.00
N-3.60	B13	1419	VC0.5x1	114.5	B.2.4.5-3	15.40	15.40	0.27	0.00	0.00
N-3.60	B13	1419	VC0.5x1	114.5	B.2.4.5-3	15.40	15.40	0.22	0.00	0.00
N-3.60	B13	1419	VC0.5x1	151.9	B.2.4.5-3	15.40	15.40	0.22	0.00	0.00
N-3.60	B13	1419	VC0.5x1	151.9	B.2.4.5-3	15.40	15.40	0.20	0.00	0.00
N-3.60	B13	1419	VC0.5x1	177.3	B.2.4.5-3	15.40	15.40	0.20	0.00	0.00
N-3.60	B13	1419	VC0.5x1	202.6	B.2.4.2-2	15.40	15.40	0.20	0.00	0.00
N-3.60	B13	1419	VC0.5x1	202.6	B.2.4.4-4	15.40	15.40	0.15	0.00	0.00
N-3.60	B13	1419	VC0.5x1	234.5	B.2.4.5-8	18.60	15.40	0.16	0.00	0.00
N-3.60	B13	1419	VC0.5x1	234.5	B.2.4.5-8	19.00	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	253.2	B.2.4.5-8	19.40	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	253.2	B.2.4.5-8	19.60	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	278.5	B.2.4.5-8	20.30	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	303.9	B.2.4.5-8	20.90	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	303.9	B.2.4.5-8	21.00	15.40	0.04	0.00	0.00
N-3.60	B13	1419	VC0.5x1	329.2	B.2.4.5-8	21.30	15.40	0.04	0.00	0.00
N-3.60	B13	1419	VC0.5x1	354.5	B.2.4.5-8	21.60	15.40	0.04	0.00	0.00
N-3.60	B13	1419	VC0.5x1	354.5	B.2.4.5-3	21.40	15.40	0.06	0.00	0.00
N-3.60	B13	1419	VC0.5x1	379.8	B.2.4.5-3	20.70	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	405.1	B.2.4.5-3	20.00	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	405.1	B.2.4.5-3	19.90	15.40	0.06	0.00	0.00
N-3.60	B13	1419	VC0.5x1	430.5	B.2.4.5-3	19.10	15.40	0.06	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B13	1419	VC0.5x1	455.8	B.2.4.5-3	18.30	15.40	0.06	0.00	0.00
N-3.60	B13	1419	VC0.5x1	455.8	B.2.4.5-3	18.10	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	474.5	B.2.4.5-3	17.70	15.40	0.05	0.00	0.00
N-3.60	B13	1419	VC0.5x1	474.5	B.2.4.5-3	17.50	15.40	0.11	0.00	0.00
N-3.60	B13	1419	VC0.5x1	506.4	B.2.4.4-4	15.40	15.40	0.11	0.00	0.00
N-3.60	B13	1419	VC0.5x1	506.4	B.2.4.2-2	15.40	15.40	0.13	0.00	0.00
N-3.60	B13	1419	VC0.5x1	531.8	B.2.4.5-3	15.40	15.40	0.13	0.00	0.00
N-3.60	B13	1419	VC0.5x1	557.1	B.2.4.5-3	15.40	15.40	0.13	0.00	0.00
N-3.60	B13	1419	VC0.5x1	557.1	B.2.4.5-3	15.40	15.40	0.14	0.00	0.00
N-3.60	B13	1419	VC0.5x1	594.5	B.2.4.5-3	15.40	15.40	0.14	0.00	0.00
N-3.60	B13	1419	VC0.5x1	594.5	B.2.4.5-3	15.40	15.40	0.18	0.00	0.00
N-3.60	B13	1419	VC0.5x1	607.7	B.2.4.5-3	15.40	15.40	0.18	0.00	0.00
N-3.60	B13	1419	VC0.5x1	607.7	B.2.4.5-3	15.40	15.40	0.36	0.00	0.00
N-3.60	B13	1419	VC0.5x1	633.0	B.2.4.5-3	15.40	15.40	0.35	0.00	0.00
N-3.60	B13	1419	VC0.5x1	658.4	B.2.4.5-3	15.40	22.10	0.35	0.00	0.00
N-3.60	B13	1419	VC0.5x1	658.4	B.2.4.5-3	15.40	22.40	0.36	0.00	0.00
N-3.60	B13	1419	VC0.5x1	659.0	B.2.4.5-3	1.70	22.60	0.36	0.00	0.00
N-3.60	B14	1506	VC0.5x1	50.0	B.2.4.5-8	1.20	47.10	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	51.7	B.2.4.5-8	15.30	45.70	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	51.7	B.2.4.5-8	15.40	43.60	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	87.5	B.2.4.5-8	15.40	21.20	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	87.5	B.2.4.5-8	15.40	17.60	0.20	0.00	0.00
N-3.60	B14	1506	VC0.5x1	103.3	B.2.4.5-8	15.40	15.40	0.20	0.00	0.00
N-3.60	B14	1506	VC0.5x1	103.3	B.2.4.5-8	15.40	15.40	0.31	0.00	0.00
N-3.60	B14	1506	VC0.5x1	129.2	B.2.4.5-8	15.40	15.40	0.31	0.00	0.00
N-3.60	B14	1506	VC0.5x1	155.0	B.2.4.5-8	15.40	15.40	0.31	0.00	0.00
N-3.60	B14	1506	VC0.5x1	155.0	B.2.4.5-8	15.40	15.40	0.23	0.00	0.00
N-3.60	B14	1506	VC0.5x1	180.8	B.2.4.5-8	15.40	15.40	0.23	0.00	0.00
N-3.60	B14	1506	VC0.5x1	206.7	B.2.4.5-8	17.10	15.40	0.23	0.00	0.00
N-3.60	B14	1506	VC0.5x1	206.7	B.2.4.5-8	17.60	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	207.5	B.2.4.5-8	17.60	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	207.5	B.2.4.5-8	17.50	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	232.9	B.2.4.5-8	19.40	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	258.3	B.2.4.5-8	21.30	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	258.3	B.2.4.5-8	21.50	15.40	0.06	0.00	0.00
N-3.60	B14	1506	VC0.5x1	284.2	B.2.4.5-8	23.00	15.40	0.06	0.00	0.00
N-3.60	B14	1506	VC0.5x1	310.0	B.2.4.5-8	24.60	15.40	0.07	0.00	0.00
N-3.60	B14	1506	VC0.5x1	310.0	B.2.4.5-8	24.80	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	327.5	B.2.4.5-8	25.40	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	327.5	B.2.4.5-8	25.40	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	361.7	B.2.4.5-8	25.50	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	361.7	B.2.4.5-8	25.50	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	387.5	B.2.4.5-8	25.40	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	413.3	B.2.4.5-8	25.40	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	413.3	B.2.4.5-8	25.40	15.40	0.02	0.00	0.00
N-3.60	B14	1506	VC0.5x1	447.5	B.2.4.5-8	25.20	15.40	0.01	0.00	0.00
N-3.60	B14	1506	VC0.5x1	447.5	B.2.4.5-8	25.20	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	465.0	B.2.4.5-8	24.60	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	465.0	B.2.4.5-8	24.30	15.40	0.07	0.00	0.00
N-3.60	B14	1506	VC0.5x1	490.8	B.2.4.5-8	22.80	15.40	0.06	0.00	0.00
N-3.60	B14	1506	VC0.5x1	516.7	B.2.4.5-8	21.40	15.40	0.06	0.00	0.00
N-3.60	B14	1506	VC0.5x1	516.7	B.2.4.5-8	21.10	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	542.1	B.2.4.5-8	19.20	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	567.5	B.2.4.5-8	17.40	15.40	0.08	0.00	0.00
N-3.60	B14	1506	VC0.5x1	567.5	B.2.4.5-8	17.50	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	568.3	B.2.4.5-8	17.50	15.40	0.04	0.00	0.00
N-3.60	B14	1506	VC0.5x1	568.3	B.2.4.5-8	17.00	15.40	0.22	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B14	1506	VC0.5x1	594.2	B.2.4.5-8	15.40	15.40	0.22	0.00	0.00
N-3.60	B14	1506	VC0.5x1	620.0	B.2.4.5-8	15.40	15.40	0.22	0.00	0.00
N-3.60	B14	1506	VC0.5x1	620.0	B.2.4.5-8	15.40	15.40	0.29	0.00	0.00
N-3.60	B14	1506	VC0.5x1	645.8	B.2.4.5-8	15.40	15.40	0.29	0.00	0.00
N-3.60	B14	1506	VC0.5x1	671.7	B.2.4.5-8	15.40	15.40	0.29	0.00	0.00
N-3.60	B14	1506	VC0.5x1	671.7	B.2.4.5-8	15.40	15.40	0.19	0.00	0.00
N-3.60	B14	1506	VC0.5x1	687.5	B.2.4.5-8	15.40	15.70	0.19	0.00	0.00
N-3.60	B14	1506	VC0.5x1	687.5	B.2.4.5-8	15.40	19.10	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	723.3	B.2.4.5-8	15.40	40.20	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	723.3	B.2.4.5-8	15.10	42.20	0.00	0.00	0.00
N-3.60	B14	1506	VC0.5x1	725.0	B.2.4.5-3	1.20	43.50	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	50.0	B.2.4.5-3	2.30	34.60	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	51.7	B.2.4.5-3	15.40	33.40	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	51.7	B.2.4.5-3	15.40	31.40	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	87.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	87.5	B.2.4.5-3	15.40	15.40	0.18	0.00	0.00
N-3.60	B15	1503	VC0.5x1	103.3	B.2.4.5-3	15.40	15.40	0.18	0.00	0.00
N-3.60	B15	1503	VC0.5x1	103.3	B.2.4.5-3	15.40	15.40	0.24	0.00	0.00
N-3.60	B15	1503	VC0.5x1	129.2	B.2.4.5-3	15.40	15.40	0.24	0.00	0.00
N-3.60	B15	1503	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.25	0.00	0.00
N-3.60	B15	1503	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.19	0.00	0.00
N-3.60	B15	1503	VC0.5x1	180.8	B.2.4.4-4	15.40	15.40	0.19	0.00	0.00
N-3.60	B15	1503	VC0.5x1	206.7	B.2.4.5-3	19.30	15.40	0.19	0.00	0.00
N-3.60	B15	1503	VC0.5x1	206.7	B.2.4.5-3	19.60	15.40	0.01	0.00	0.00
N-3.60	B15	1503	VC0.5x1	207.5	B.2.4.5-3	19.60	15.40	0.01	0.00	0.00
N-3.60	B15	1503	VC0.5x1	207.5	B.2.4.5-3	19.30	15.40	0.05	0.00	0.00
N-3.60	B15	1503	VC0.5x1	232.9	B.2.4.5-3	20.10	15.40	0.05	0.00	0.00
N-3.60	B15	1503	VC0.5x1	258.3	B.2.4.5-3	21.00	15.40	0.05	0.00	0.00
N-3.60	B15	1503	VC0.5x1	258.3	B.2.4.5-3	21.10	15.40	0.04	0.00	0.00
N-3.60	B15	1503	VC0.5x1	284.2	B.2.4.5-3	21.70	15.40	0.04	0.00	0.00
N-3.60	B15	1503	VC0.5x1	310.0	B.2.4.5-3	22.30	15.40	0.04	0.00	0.00
N-3.60	B15	1503	VC0.5x1	310.0	B.2.4.5-3	22.40	15.40	0.03	0.00	0.00
N-3.60	B15	1503	VC0.5x1	327.5	B.2.4.5-3	22.60	15.40	0.03	0.00	0.00
N-3.60	B15	1503	VC0.5x1	327.5	B.2.4.5-3	22.50	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	361.7	B.2.4.5-3	22.50	15.40	0.01	0.00	0.00
N-3.60	B15	1503	VC0.5x1	361.7	B.2.4.5-3	22.50	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	387.5	B.2.4.5-3	22.40	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	413.3	B.2.4.5-3	22.40	15.40	0.01	0.00	0.00
N-3.60	B15	1503	VC0.5x1	413.3	B.2.4.5-3	22.40	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	447.5	B.2.4.5-8	22.40	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	447.5	B.2.4.5-8	22.50	15.40	0.04	0.00	0.00
N-3.60	B15	1503	VC0.5x1	465.0	B.2.4.5-8	22.00	15.40	0.04	0.00	0.00
N-3.60	B15	1503	VC0.5x1	465.0	B.2.4.5-8	21.80	15.40	0.06	0.00	0.00
N-3.60	B15	1503	VC0.5x1	490.8	B.2.4.5-8	20.60	15.40	0.06	0.00	0.00
N-3.60	B15	1503	VC0.5x1	516.7	B.2.4.5-8	19.40	15.40	0.06	0.00	0.00
N-3.60	B15	1503	VC0.5x1	516.7	B.2.4.5-8	19.20	15.40	0.08	0.00	0.00
N-3.60	B15	1503	VC0.5x1	542.1	B.2.4.5-8	17.60	15.40	0.08	0.00	0.00
N-3.60	B15	1503	VC0.5x1	567.5	B.2.4.5-8	16.00	15.40	0.07	0.00	0.00
N-3.60	B15	1503	VC0.5x1	567.5	B.2.4.5-8	16.00	15.40	0.02	0.00	0.00
N-3.60	B15	1503	VC0.5x1	568.3	B.2.4.5-8	16.00	15.40	0.01	0.00	0.00
N-3.60	B15	1503	VC0.5x1	568.3	B.2.4.5-8	15.50	15.40	0.23	0.00	0.00
N-3.60	B15	1503	VC0.5x1	594.2	B.2.4.5-3	15.40	15.40	0.22	0.00	0.00
N-3.60	B15	1503	VC0.5x1	620.0	B.2.4.5-3	15.40	15.40	0.22	0.00	0.00
N-3.60	B15	1503	VC0.5x1	620.0	B.2.4.5-3	15.40	15.40	0.30	0.00	0.00
N-3.60	B15	1503	VC0.5x1	645.8	B.2.4.5-3	15.40	15.40	0.29	0.00	0.00
N-3.60	B15	1503	VC0.5x1	671.7	B.2.4.5-3	15.40	15.40	0.29	0.00	0.00
N-3.60	B15	1503	VC0.5x1	671.7	B.2.4.5-3	15.40	15.80	0.19	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B15	1503	VC0.5x1	687.5	B.2.4.5-3	15.40	18.70	0.19	0.00	0.00
N-3.60	B15	1503	VC0.5x1	687.5	B.2.4.5-3	15.40	22.40	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	723.3	B.2.4.5-3	15.40	44.50	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	723.3	B.2.4.5-3	15.40	46.50	0.00	0.00	0.00
N-3.60	B15	1503	VC0.5x1	725.0	B.2.4.5-8	1.30	48.00	0.00	0.00	0.00
N-3.60	B18	1490	VC0.5x1	50.0	B.2.4.7-4	10.10	37.30	0.15	0.00	0.00
N-3.60	B18	1490	VC0.5x1	51.7	B.2.4.5-3	15.40	37.20	0.15	0.00	0.00
N-3.60	B18	1490	VC0.5x1	51.7	B.2.4.5-3	15.40	24.80	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	87.5	B.2.4.5-3	15.40	23.10	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	87.5	B.2.4.5-3	15.40	18.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	96.9	B.2.4.5-3	15.40	18.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	96.9	B.2.4.5-3	15.40	19.20	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	103.3	B.2.4.5-3	15.40	19.20	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	103.3	B.2.4.5-3	15.40	16.40	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	129.2	B.2.4.5-3	15.40	15.40	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	193.8	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	193.8	B.2.4.5-3	14.40	14.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	206.7	B.2.4.5-3	14.40	14.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	206.7	B.2.4.5-3	13.90	13.90	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	207.5	B.2.4.5-3	13.90	13.90	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	207.5	B.2.4.5-3	14.70	14.70	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	232.9	B.2.4.5-3	14.70	14.70	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	258.3	B.2.4.5-3	14.70	14.70	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	258.3	B.2.4.5-3	15.20	15.20	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	290.6	B.2.4.5-3	15.20	15.20	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	290.6	B.2.4.5-3	13.40	13.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	310.0	B.2.4.5-3	13.40	13.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	310.0	B.2.4.5-3	13.40	13.40	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	327.5	B.2.4.5-3	13.40	13.40	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	327.5	B.2.4.5-3	13.30	13.30	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	361.7	B.2.4.5-3	13.30	13.30	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	361.7	B.2.4.5-3	13.40	13.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	387.5	B.2.4.5-3	13.40	13.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	387.5	B.2.4.5-3	14.50	14.50	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	413.3	B.2.4.5-3	14.50	14.50	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	413.3	B.2.4.5-3	14.40	14.40	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	447.5	B.2.4.5-3	14.40	14.40	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	447.5	B.2.4.5-3	14.20	14.20	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	465.0	B.2.4.5-3	14.20	14.20	0.14	0.00	0.00
N-3.60	B18	1490	VC0.5x1	465.0	B.2.4.5-3	14.30	14.30	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	484.4	B.2.4.5-3	14.30	14.30	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	484.4	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	516.7	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	516.7	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	542.1	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	567.5	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	567.5	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	568.3	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	568.3	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	581.3	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	581.3	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	620.0	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	620.0	B.2.4.5-3	15.40	17.30	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	645.8	B.2.4.5-3	15.40	18.50	0.13	0.00	0.00
N-3.60	B18	1490	VC0.5x1	671.7	B.2.4.5-3	15.40	19.50	0.13	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B18	1490	VC0.5x1	671.7	B.2.4.5-3	15.40	22.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	678.1	B.2.4.5-3	15.40	22.40	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	678.1	B.2.4.5-3	14.50	19.80	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	687.5	B.2.4.5-3	14.50	19.80	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	687.5	B.2.4.5-3	14.50	21.60	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	723.3	B.2.4.5-3	14.50	22.20	0.11	0.00	0.00
N-3.60	B18	1490	VC0.5x1	723.3	B.2.4.5-3	14.80	27.10	0.12	0.00	0.00
N-3.60	B18	1490	VC0.5x1	725.0	B.2.4.7-4	10.50	27.10	0.12	0.00	0.00
N-3.60	B19	1497	VC0.5x1	50.0	B.2.4.7-4	8.00	18.40	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	51.7	B.2.4.5-3	11.40	18.30	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	51.7	B.2.4.5-3	11.70	15.40	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	87.5	B.2.4.5-3	11.70	15.40	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	87.5	B.2.4.5-3	12.10	15.40	0.07	13.90	0.03
N-3.60	B19	1497	VC0.5x1	97.7	B.2.4.5-3	12.10	15.40	0.07	13.90	0.03
N-3.60	B19	1497	VC0.5x1	97.7	B.2.4.5-3	10.40	15.40	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	103.3	B.2.4.5-3	10.40	15.40	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	103.3	B.2.4.5-3	10.70	15.40	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	129.2	B.2.4.5-3	10.70	14.90	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	155.0	B.2.4.5-3	10.70	13.90	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	155.0	B.2.4.5-3	11.30	11.30	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	195.3	B.2.4.5-3	11.30	11.30	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	195.3	B.2.4.5-3	8.10	8.10	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	206.7	B.2.4.5-3	8.10	8.10	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	206.7	B.2.4.5-3	7.80	7.80	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	207.5	B.2.4.5-3	7.80	7.80	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	207.5	B.2.4.5-3	8.60	8.60	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	232.9	B.2.4.5-3	8.60	8.60	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	258.3	B.2.4.5-3	8.60	8.60	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	258.3	B.2.4.5-3	9.30	9.30	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	293.0	B.2.4.5-3	9.30	9.30	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	293.0	B.2.4.5-3	6.60	6.60	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	310.0	B.2.4.5-3	6.60	6.60	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	310.0	B.2.4.5-3	6.70	6.70	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	327.5	B.2.4.5-3	6.70	6.70	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	327.5	B.2.4.5-3	7.10	7.10	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	361.7	B.2.4.5-3	7.10	7.10	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	361.7	B.2.4.5-3	7.40	7.40	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	390.7	B.2.4.5-3	7.40	7.40	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	390.7	B.2.4.5-3	7.40	7.40	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	413.3	B.2.4.5-3	7.40	7.40	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	413.3	B.2.4.5-3	7.10	7.10	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	447.5	B.2.4.5-3	7.10	7.10	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	447.5	B.2.4.5-3	6.80	6.80	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	465.0	B.2.4.5-3	6.80	6.80	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	465.0	B.2.4.5-3	6.70	6.70	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	488.3	B.2.4.5-3	6.70	6.70	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	488.3	B.2.4.5-3	9.00	9.00	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	516.7	B.2.4.5-3	9.00	9.00	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	516.7	B.2.4.5-3	8.50	8.50	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	542.1	B.2.4.5-3	8.50	8.50	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	567.5	B.2.4.5-3	8.50	8.50	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	567.5	B.2.4.5-3	8.00	8.00	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	568.3	B.2.4.5-3	8.00	8.00	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	568.3	B.2.4.5-3	8.20	8.20	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	586.0	B.2.4.5-3	8.20	8.20	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	586.0	B.2.4.5-3	10.20	11.50	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	620.0	B.2.4.5-3	10.20	11.20	0.07	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B19	1497	VC0.5x1	620.0	B.2.4.5-3	9.80	9.80	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	645.8	B.2.4.5-3	9.80	9.80	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	671.7	B.2.4.5-3	9.80	9.80	0.07	0.00	0.00
N-3.60	B19	1497	VC0.5x1	671.7	B.2.4.5-3	9.60	10.40	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	680.5	B.2.4.5-3	9.60	10.40	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	680.5	B.2.4.5-3	10.50	10.50	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	687.5	B.2.4.5-3	10.50	10.50	0.06	0.00	0.00
N-3.60	B19	1497	VC0.5x1	687.5	B.2.4.5-3	10.20	13.30	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	723.3	B.2.4.5-3	10.20	14.40	0.08	0.00	0.00
N-3.60	B19	1497	VC0.5x1	723.3	B.2.4.5-3	10.00	17.50	0.09	0.00	0.00
N-3.60	B19	1497	VC0.5x1	725.0	B.2.4.7-4	8.80	17.60	0.09	0.00	0.00
N-3.60	B24	1499	VC0.5x1	50.0	B.2.4.7-4	3.00	25.80	0.36	0.00	0.00
N-3.60	B24	1499	VC0.5x1	62.5	B.2.4.5-3	10.20	21.10	0.36	0.00	0.00
N-3.60	B24	1499	VC0.5x1	62.5	B.2.4.5-3	12.30	21.40	0.29	0.00	0.00
N-3.60	B24	1499	VC0.5x1	87.5	B.2.4.5-3	12.30	15.40	0.29	0.00	0.00
N-3.60	B24	1499	VC0.5x1	87.5	B.2.4.5-3	12.40	15.40	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	103.3	B.2.4.5-3	12.40	15.40	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	103.3	B.2.4.5-3	12.40	15.40	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	129.2	B.2.4.5-3	12.40	15.60	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	155.0	B.2.4.5-3	12.40	17.00	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	155.0	B.2.4.5-3	12.30	17.10	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	156.0	B.2.4.5-3	12.30	17.10	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	156.0	B.2.4.5-3	24.70	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	181.3	B.2.4.5-3	24.60	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	206.7	B.2.4.5-3	24.60	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	206.7	B.2.4.5-3	22.90	14.40	0.04	14.80	0.06
N-3.60	B24	1499	VC0.5x1	207.5	B.2.4.5-3	22.90	14.40	0.04	14.80	0.06
N-3.60	B24	1499	VC0.5x1	207.5	B.2.4.5-3	21.40	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	232.9	B.2.4.5-3	21.30	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	258.3	B.2.4.5-3	21.30	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	258.3	B.2.4.5-3	18.20	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	284.2	B.2.4.5-3	18.50	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	310.0	B.2.4.5-3	18.80	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	310.0	B.2.4.5-3	16.50	14.40	0.02	0.00	0.00
N-3.60	B24	1499	VC0.5x1	327.5	B.2.4.5-3	17.10	14.40	0.02	0.00	0.00
N-3.60	B24	1499	VC0.5x1	327.5	B.2.4.5-3	15.90	14.40	0.01	0.00	0.00
N-3.60	B24	1499	VC0.5x1	361.7	B.2.4.4-4	15.40	14.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	361.7	B.2.4.5-3	15.40	14.50	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	387.5	B.2.4.5-3	15.40	14.50	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	413.3	B.2.4.5-3	15.40	14.50	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	413.3	B.2.4.5-3	14.50	14.50	0.02	0.00	0.00
N-3.60	B24	1499	VC0.5x1	447.5	B.2.4.5-3	15.40	14.50	0.02	0.00	0.00
N-3.60	B24	1499	VC0.5x1	447.5	B.2.4.5-3	14.60	14.60	0.03	0.00	0.00
N-3.60	B24	1499	VC0.5x1	465.0	B.2.4.5-3	14.60	14.60	0.03	0.00	0.00
N-3.60	B24	1499	VC0.5x1	465.0	B.2.4.5-3	14.60	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	490.8	B.2.4.5-3	14.60	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	516.7	B.2.4.5-3	14.60	14.60	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	516.7	B.2.4.5-3	14.80	14.80	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	542.1	B.2.4.5-3	14.80	14.80	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	567.5	B.2.4.5-3	14.80	14.80	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	567.5	B.2.4.5-3	14.90	14.90	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	568.3	B.2.4.5-3	14.90	14.90	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	568.3	B.2.4.5-3	14.80	14.80	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	594.2	B.2.4.5-3	14.80	14.80	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	620.0	B.2.4.5-3	14.80	15.40	0.04	0.00	0.00
N-3.60	B24	1499	VC0.5x1	620.0	B.2.4.5-3	15.10	15.40	0.01	0.00	0.00
N-3.60	B24	1499	VC0.5x1	645.8	B.2.4.5-3	15.10	15.40	0.01	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B24	1499	VC0.5x1	671.7	B.2.4.5-3	15.10	15.40	0.01	0.00	0.00
N-3.60	B24	1499	VC0.5x1	671.7	B.2.4.5-3	15.40	15.50	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	687.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	687.5	B.2.4.5-3	15.40	18.00	0.03	0.00	0.00
N-3.60	B24	1499	VC0.5x1	712.5	B.2.4.5-3	15.40	19.20	0.03	0.00	0.00
N-3.60	B24	1499	VC0.5x1	712.5	B.2.4.5-3	14.10	18.70	0.00	0.00	0.00
N-3.60	B24	1499	VC0.5x1	725.0	B.2.4.5-3	6.10	18.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	50.0	B.2.4.5-3	4.50	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	62.5	B.2.4.5-8	5.10	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	62.5	B.2.4.5-8	6.30	8.30	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	87.5	B.2.4.5-8	6.30	6.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	87.5	B.2.4.5-8	6.20	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	103.3	B.2.4.5-8	6.20	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	103.3	B.2.4.5-8	5.90	6.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	129.2	B.2.4.5-8	5.90	5.90	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	155.0	B.2.4.5-8	6.00	5.90	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	155.0	B.2.4.5-8	5.80	6.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	180.8	B.2.4.5-8	5.80	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	206.7	B.2.4.5-8	7.80	5.80	0.01	0.00	0.00
N-3.60	B25	1468	VC0.5x1	206.7	B.2.4.5-8	7.60	5.80	0.04	0.00	0.00
N-3.60	B25	1468	VC0.5x1	207.5	B.2.4.5-8	7.60	5.80	0.04	0.00	0.00
N-3.60	B25	1468	VC0.5x1	207.5	B.2.4.5-8	7.20	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	232.9	B.2.4.5-8	7.10	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	258.3	B.2.4.5-8	7.00	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	258.3	B.2.4.5-8	6.10	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	284.2	B.2.4.5-8	7.20	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	310.0	B.2.4.5-8	8.40	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	310.0	B.2.4.5-8	7.80	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	327.5	B.2.4.5-8	9.10	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	327.5	B.2.4.5-8	9.40	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	361.7	B.2.4.5-8	7.50	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	361.7	B.2.4.5-8	8.20	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	387.5	B.2.4.5-8	8.00	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	413.3	B.2.4.5-8	7.90	5.60	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	413.3	B.2.4.5-8	8.10	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	447.5	B.2.4.5-8	9.60	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	447.5	B.2.4.5-8	9.70	5.70	0.04	0.00	0.00
N-3.60	B25	1468	VC0.5x1	465.0	B.2.4.5-8	8.40	5.70	0.04	0.00	0.00
N-3.60	B25	1468	VC0.5x1	465.0	B.2.4.5-8	9.60	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	490.8	B.2.4.5-8	8.40	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	516.7	B.2.4.5-8	7.30	5.70	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	516.7	B.2.4.5-8	8.70	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	542.1	B.2.4.5-8	8.80	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	567.5	B.2.4.5-8	8.90	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	567.5	B.2.4.5-8	9.50	5.90	0.04	13.10	0.05
N-3.60	B25	1468	VC0.5x1	568.3	B.2.4.5-8	9.50	5.90	0.04	13.10	0.05
N-3.60	B25	1468	VC0.5x1	568.3	B.2.4.5-8	9.90	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	594.2	B.2.4.5-8	8.20	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	620.0	B.2.4.5-8	6.50	5.80	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	620.0	B.2.4.5-8	8.90	6.00	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	645.8	B.2.4.5-8	8.10	6.00	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	671.7	B.2.4.5-8	7.30	6.00	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	671.7	B.2.4.5-8	9.10	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	687.5	B.2.4.5-8	9.50	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	687.5	B.2.4.5-8	8.00	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	712.5	B.2.4.5-8	6.60	6.20	0.00	0.00	0.00
N-3.60	B25	1468	VC0.5x1	712.5	B.2.4.5-3	8.20	5.30	0.00	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B25	1468	VC0.5x1	725.0	B.2.4.5-3	8.20	6.20	0.00	0.00	0.00
N-3.60	B216	1433	VC0.5x1	0.0	B.2.4.5-3	15.40	9.40	0.20	0.00	0.00
N-3.60	B216	1433	VC0.5x1	26.2	B.2.4.5-3	15.40	11.40	0.20	0.00	0.00
N-3.60	B216	1433	VC0.5x1	52.3	B.2.4.5-3	15.40	11.40	0.20	0.00	0.00
N-3.60	B216	1433	VC0.5x1	52.3	B.2.4.5-3	15.40	11.60	0.19	0.00	0.00
N-3.60	B216	1433	VC0.5x1	97.0	B.2.4.5-3	15.80	11.60	0.19	0.00	0.00
N-3.60	B216	1433	VC0.5x1	97.0	B.2.4.5-3	16.30	11.70	0.17	0.00	0.00
N-3.60	B216	1433	VC0.5x1	104.7	B.2.4.5-3	16.10	11.70	0.17	0.00	0.00
N-3.60	B216	1433	VC0.5x1	104.7	B.2.4.5-3	15.70	11.80	0.25	0.00	0.00
N-3.60	B216	1433	VC0.5x1	130.8	B.2.4.5-3	15.40	11.80	0.25	0.00	0.00
N-3.60	B216	1433	VC0.5x1	157.0	B.2.4.5-3	14.20	11.80	0.24	0.00	0.00
N-3.60	B216	1433	VC0.5x1	157.0	B.2.4.5-3	13.80	11.90	0.30	0.00	0.00
N-3.60	B216	1433	VC0.5x1	183.2	B.2.4.5-3	11.90	11.90	0.29	0.00	0.00
N-3.60	B216	1433	VC0.5x1	209.3	B.2.4.5-3	11.90	11.90	0.29	0.00	0.00
N-3.60	B216	1433	VC0.5x1	209.3	B.2.4.5-3	12.00	12.00	0.20	0.00	0.00
N-3.60	B216	1433	VC0.5x1	217.0	B.2.4.5-3	12.00	12.00	0.20	0.00	0.00
N-3.60	B216	1433	VC0.5x1	217.0	B.2.4.5-3	11.90	11.90	0.33	0.00	0.00
N-3.60	B216	1433	VC0.5x1	251.5	B.2.4.5-3	11.90	19.90	0.33	0.00	0.00
N-3.60	B216	1433	VC0.5x1	251.5	B.2.4.5-3	10.20	20.00	0.00	0.00	0.00
N-3.60	B216	1433	VC0.5x1	264.0	B.2.4.7-4	2.30	26.50	0.00	0.00	0.00
N-3.60	B218	1428	VC0.5x1	0.0	B.2.4.5-3	28.10	15.40	0.30	0.00	0.00
N-3.60	B218	1428	VC0.5x1	26.2	B.2.4.5-3	27.10	15.20	0.30	0.00	0.00
N-3.60	B218	1428	VC0.5x1	52.3	B.2.4.5-3	26.20	15.20	0.30	0.00	0.00
N-3.60	B218	1428	VC0.5x1	52.3	B.2.4.5-3	26.00	15.10	0.32	0.00	0.00
N-3.60	B218	1428	VC0.5x1	97.0	B.2.4.5-3	23.80	15.10	0.31	0.00	0.00
N-3.60	B218	1428	VC0.5x1	97.0	B.2.4.5-3	23.50	15.00	0.33	0.00	0.00
N-3.60	B218	1428	VC0.5x1	104.7	B.2.4.5-3	23.20	15.00	0.33	0.00	0.00
N-3.60	B218	1428	VC0.5x1	104.7	B.2.4.5-3	22.20	15.00	0.10	0.00	0.00
N-3.60	B218	1428	VC0.5x1	130.8	B.2.4.5-3	17.10	15.00	0.10	0.00	0.00
N-3.60	B218	1428	VC0.5x1	157.0	B.2.4.5-3	15.40	15.00	0.10	0.00	0.00
N-3.60	B218	1428	VC0.5x1	157.0	B.2.4.5-3	15.00	14.90	0.16	0.00	0.00
N-3.60	B218	1428	VC0.5x1	183.2	B.2.4.5-3	14.90	14.90	0.16	0.00	0.00
N-3.60	B218	1428	VC0.5x1	209.3	B.2.4.5-3	14.90	14.90	0.16	0.00	0.00
N-3.60	B218	1428	VC0.5x1	209.3	B.2.4.5-3	14.90	14.90	0.35	0.00	0.00
N-3.60	B218	1428	VC0.5x1	217.0	B.2.4.5-3	14.90	14.90	0.35	0.00	0.00
N-3.60	B218	1428	VC0.5x1	217.0	B.2.4.5-3	14.70	14.70	0.00	0.00	0.00
N-3.60	B218	1428	VC0.5x1	261.7	B.2.4.5-3	14.70	36.30	0.00	0.00	0.00
N-3.60	B218	1428	VC0.5x1	261.7	B.2.4.5-3	13.30	37.40	0.00	0.00	0.00
N-3.60	B218	1428	VC0.5x1	264.0	B.2.4.5-3	1.50	39.20	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	0.0	B.2.4.5-8	1.70	1.60	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	49.1	B.2.4.5-8	8.50	8.50	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	49.1	B.2.4.5-8	8.70	8.70	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	98.2	B.2.4.5-8	8.70	8.70	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	98.2	B.2.4.5-8	8.80	8.80	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	147.4	B.2.4.5-8	8.80	8.80	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	147.4	B.2.4.5-8	8.90	8.90	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	196.5	B.2.4.5-8	8.90	8.90	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	196.5	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	245.6	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	245.6	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	277.5	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	277.5	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	294.7	B.2.4.5-8	9.00	9.00	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	294.7	B.2.4.5-8	9.10	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	343.8	B.2.4.5-8	9.10	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	343.8	B.2.4.5-8	9.10	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	392.9	B.2.4.5-8	9.80	9.10	0.00	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B221	1532	VC0.5x1	392.9	B.2.4.5-8	9.90	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	442.1	B.2.4.5-8	10.70	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	442.1	B.2.4.5-8	10.80	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	491.2	B.2.4.5-8	11.30	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	491.2	B.2.4.5-8	11.30	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	495.0	B.2.4.5-8	11.30	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	495.0	B.2.4.5-8	11.40	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	540.3	B.2.4.5-8	9.30	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	540.3	B.2.4.5-8	9.10	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	589.4	B.2.4.5-8	9.10	9.10	0.00	0.00	0.00
N-3.60	B221	1532	VC0.5x1	589.4	B.2.4.5-8	9.10	9.10	0.03	0.00	0.00
N-3.60	B221	1532	VC0.5x1	638.5	B.2.4.5-8	9.10	9.10	0.02	0.00	0.00
N-3.60	B221	1532	VC0.5x1	638.5	B.2.4.5-8	9.10	9.10	0.05	0.00	0.00
N-3.60	B221	1532	VC0.5x1	687.6	B.2.4.5-8	9.10	9.80	0.05	0.00	0.00
N-3.60	B221	1532	VC0.5x1	687.6	B.2.4.5-8	9.10	10.40	0.09	0.00	0.00
N-3.60	B221	1532	VC0.5x1	736.8	B.2.4.5-8	9.10	15.40	0.09	0.00	0.00
N-3.60	B221	1532	VC0.5x1	736.8	B.2.4.5-8	9.20	15.40	0.13	0.00	0.00
N-3.60	B221	1532	VC0.5x1	772.5	B.2.4.5-8	9.20	20.40	0.13	0.00	0.00
N-3.60	B221	1532	VC0.5x1	772.5	B.2.4.5-8	8.10	20.20	0.17	0.00	0.00
N-3.60	B221	1532	VC0.5x1	785.0	B.2.4.7-8	1.40	22.60	0.17	0.00	0.00
N-3.60	B222	767	VC0.5x1	0.0	B.2.4.5-8	7.80	4.40	0.04	19.60	0.07
N-3.60	B222	767	VC0.5x1	49.1	B.2.4.5-8	9.80	2.80	0.04	19.60	0.07
N-3.60	B222	767	VC0.5x1	49.1	B.2.4.5-8	10.00	3.00	0.04	19.20	0.07
N-3.60	B222	767	VC0.5x1	98.2	B.2.4.5-8	11.30	3.00	0.04	19.20	0.07
N-3.60	B222	767	VC0.5x1	98.2	B.2.4.5-8	11.50	3.20	0.04	18.10	0.07
N-3.60	B222	767	VC0.5x1	147.4	B.2.4.5-8	12.00	3.20	0.04	18.10	0.07
N-3.60	B222	767	VC0.5x1	147.4	B.2.4.5-8	12.30	3.40	0.04	16.90	0.06
N-3.60	B222	767	VC0.5x1	196.5	B.2.4.5-8	12.10	3.40	0.04	16.90	0.06
N-3.60	B222	767	VC0.5x1	196.5	B.2.4.5-8	12.30	3.70	0.04	15.80	0.06
N-3.60	B222	767	VC0.5x1	245.6	B.2.4.5-8	11.70	3.70	0.04	15.80	0.06
N-3.60	B222	767	VC0.5x1	245.6	B.2.4.5-8	11.90	3.90	0.04	15.20	0.06
N-3.60	B222	767	VC0.5x1	277.5	B.2.4.5-8	11.30	3.90	0.04	15.20	0.06
N-3.60	B222	767	VC0.5x1	277.5	B.2.4.5-8	11.80	4.10	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	294.7	B.2.4.5-8	11.20	4.10	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	294.7	B.2.4.5-8	11.20	4.30	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	343.8	B.2.4.5-8	8.80	4.30	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	343.8	B.2.4.5-8	9.00	4.60	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	392.9	B.2.4.5-8	6.60	4.60	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	392.9	B.2.4.5-8	6.90	4.90	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	442.1	B.2.4.5-8	5.70	4.90	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	442.1	B.2.4.5-8	6.10	5.40	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	491.2	B.2.4.7-8	5.80	8.80	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	491.2	B.2.4.7-8	6.20	9.50	0.09	0.00	0.00
N-3.60	B222	767	VC0.5x1	540.3	B.2.4.7-8	6.50	14.60	0.09	0.00	0.00
N-3.60	B222	767	VC0.5x1	540.3	B.2.4.7-8	6.80	15.30	0.00	0.00	0.00
N-3.60	B222	767	VC0.5x1	555.0	B.2.4.7-8	6.90	15.40	0.00	0.00	0.00
N-3.60	B222	767	VC0.5x1	555.0	B.2.4.5-8	6.30	7.20	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	589.4	B.2.4.5-8	6.30	7.20	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	589.4	B.2.4.5-8	6.30	7.00	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	638.5	B.2.4.5-8	6.30	6.90	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	638.5	B.2.4.5-8	6.40	6.70	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	687.6	B.2.4.5-8	6.40	6.60	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	687.6	B.2.4.5-8	6.50	6.50	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	736.8	B.2.4.5-8	6.50	6.50	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	736.8	B.2.4.5-8	6.70	6.70	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	785.9	B.2.4.5-8	6.70	6.70	0.04	0.00	0.00
N-3.60	B222	767	VC0.5x1	785.9	B.2.4.5-8	6.80	6.80	0.04	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B222	767	VC0.5x1	835.0	B.2.4.5-8	5.00	6.70	0.04	0.00	0.00
N-3.60	B223	1530	VC0.5x1	0.0	B.2.4.5-3	6.30	3.60	0.26	22.80	0.09
N-3.60	B223	1530	VC0.5x1	26.2	B.2.4.5-3	15.40	15.40	0.25	22.80	0.09
N-3.60	B223	1530	VC0.5x1	52.3	B.2.4.5-3	15.40	15.40	0.25	22.80	0.09
N-3.60	B223	1530	VC0.5x1	52.3	B.2.4.5-3	15.40	15.40	0.00	22.20	0.08
N-3.60	B223	1530	VC0.5x1	97.0	B.2.4.5-3	15.40	15.40	0.28	22.20	0.08
N-3.60	B223	1530	VC0.5x1	97.0	B.2.4.5-3	15.40	15.40	0.28	21.10	0.08
N-3.60	B223	1530	VC0.5x1	104.7	B.2.4.5-3	15.40	15.40	0.28	21.10	0.08
N-3.60	B223	1530	VC0.5x1	104.7	B.2.4.5-3	15.40	15.40	0.09	19.90	0.08
N-3.60	B223	1530	VC0.5x1	130.8	B.2.4.5-3	15.40	15.40	0.09	19.90	0.08
N-3.60	B223	1530	VC0.5x1	157.0	B.2.4.5-3	15.40	15.40	0.09	19.90	0.08
N-3.60	B223	1530	VC0.5x1	157.0	B.2.4.5-3	15.40	15.40	0.16	16.70	0.06
N-3.60	B223	1530	VC0.5x1	183.2	B.2.4.5-3	15.40	18.00	0.16	16.70	0.06
N-3.60	B223	1530	VC0.5x1	209.3	B.2.4.5-3	15.40	24.80	0.16	16.70	0.06
N-3.60	B223	1530	VC0.5x1	209.3	B.2.4.5-3	15.40	25.90	0.04	14.50	0.05
N-3.60	B223	1530	VC0.5x1	217.0	B.2.4.5-3	15.40	26.90	0.04	14.50	0.05
N-3.60	B223	1530	VC0.5x1	217.0	B.2.4.5-3	15.40	29.20	0.29	15.30	0.06
N-3.60	B223	1530	VC0.5x1	239.0	B.2.4.5-3	15.40	38.10	0.28	15.30	0.06
N-3.60	B223	1530	VC0.5x1	239.0	B.2.4.5-3	15.40	39.10	0.00	16.60	0.06
N-3.60	B223	1530	VC0.5x1	264.0	B.2.4.7-4	0.90	53.70	0.00	16.60	0.06
N-3.60	B80	705	VC0.5x1	50.0	B.2.4.5-3	3.10	15.40	0.11	0.00	0.00
N-3.60	B80	705	VC0.5x1	62.5	B.2.4.5-8	7.10	15.40	0.11	0.00	0.00
N-3.60	B80	705	VC0.5x1	62.5	B.2.4.5-3	8.70	15.40	0.17	0.00	0.00
N-3.60	B80	705	VC0.5x1	101.3	B.2.4.5-3	8.70	13.20	0.17	0.00	0.00
N-3.60	B80	705	VC0.5x1	101.3	B.2.4.5-8	8.40	11.40	0.16	0.00	0.00
N-3.60	B80	705	VC0.5x1	114.5	B.2.4.5-8	8.40	9.50	0.16	0.00	0.00
N-3.60	B80	705	VC0.5x1	114.5	B.2.4.5-8	8.30	8.30	0.11	0.00	0.00
N-3.60	B80	705	VC0.5x1	151.9	B.2.4.5-8	8.30	8.30	0.11	0.00	0.00
N-3.60	B80	705	VC0.5x1	151.9	B.2.4.5-3	8.30	8.30	0.13	0.00	0.00
N-3.60	B80	705	VC0.5x1	177.3	B.2.4.5-3	8.30	8.30	0.13	0.00	0.00
N-3.60	B80	705	VC0.5x1	202.6	B.2.4.5-3	8.60	8.30	0.13	0.00	0.00
N-3.60	B80	705	VC0.5x1	202.6	B.2.4.5-3	9.10	8.40	0.15	0.00	0.00
N-3.60	B80	705	VC0.5x1	234.5	B.2.4.5-3	12.90	8.40	0.15	0.00	0.00
N-3.60	B80	705	VC0.5x1	234.5	B.2.4.5-3	13.50	8.60	0.13	0.00	0.00
N-3.60	B80	705	VC0.5x1	253.2	B.2.4.5-3	12.00	8.60	0.13	0.00	0.00
N-3.60	B80	705	VC0.5x1	253.2	B.2.4.5-3	12.60	8.60	0.12	0.00	0.00
N-3.60	B80	705	VC0.5x1	278.5	B.2.4.5-3	11.30	8.60	0.12	0.00	0.00
N-3.60	B80	705	VC0.5x1	303.9	B.2.4.5-3	10.00	8.60	0.12	0.00	0.00
N-3.60	B80	705	VC0.5x1	303.9	B.2.4.5-3	11.30	9.10	0.10	0.00	0.00
N-3.60	B80	705	VC0.5x1	329.2	B.2.4.5-3	11.00	9.10	0.10	0.00	0.00
N-3.60	B80	705	VC0.5x1	354.5	B.2.4.5-3	10.80	9.10	0.10	0.00	0.00
N-3.60	B80	705	VC0.5x1	354.5	B.2.4.5-3	9.70	9.50	0.18	0.00	0.00
N-3.60	B80	705	VC0.5x1	386.5	B.2.4.5-3	9.50	9.50	0.17	0.00	0.00
N-3.60	B80	705	VC0.5x1	386.5	B.2.4.5-3	8.60	8.60	0.11	0.00	0.00
N-3.60	B80	705	VC0.5x1	399.0	B.2.4.5-3	4.50	7.30	0.11	0.00	0.00
N-3.60	B296	670	VC0.5x1	50.0	B.2.4.5-8	3.00	6.60	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	50.5	B.2.4.5-8	3.90	6.60	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	50.5	B.2.4.5-8	4.20	6.70	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	75.8	B.2.4.5-8	4.20	6.60	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	101.1	B.2.4.5-8	4.20	6.40	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	101.1	B.2.4.5-8	4.10	6.00	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	126.4	B.2.4.5-8	4.10	5.70	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	151.6	B.2.4.5-8	4.10	5.40	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	151.6	B.2.4.5-8	3.90	5.10	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	176.9	B.2.4.5-8	3.90	4.80	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	202.2	B.2.4.5-8	3.90	4.50	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	202.2	B.2.4.5-8	3.80	4.30	0.05	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B296	670	VC0.5x1	227.5	B.2.4.5-8	3.80	3.90	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	252.7	B.2.4.5-8	3.80	3.80	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	252.7	B.2.4.5-8	3.70	3.70	0.06	0.00	0.00
N-3.60	B296	670	VC0.5x1	278.0	B.2.4.5-8	3.70	3.70	0.06	0.00	0.00
N-3.60	B296	670	VC0.5x1	278.0	B.2.4.5-8	3.70	3.70	0.06	0.00	0.00
N-3.60	B296	670	VC0.5x1	303.3	B.2.4.5-8	3.70	3.70	0.06	0.00	0.00
N-3.60	B296	670	VC0.5x1	303.3	B.2.4.5-8	3.80	3.80	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	328.5	B.2.4.5-8	3.80	3.80	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	353.8	B.2.4.5-8	3.80	3.80	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	353.8	B.2.4.5-8	3.70	3.70	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	379.1	B.2.4.5-8	3.70	3.70	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	404.4	B.2.4.5-8	3.70	3.80	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	404.4	B.2.4.5-8	3.80	3.60	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	429.6	B.2.4.5-8	3.60	3.70	0.05	0.00	0.00
N-3.60	B296	670	VC0.5x1	454.9	B.2.4.5-8	3.60	3.90	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	454.9	B.2.4.5-8	4.10	3.70	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	480.2	B.2.4.5-8	4.00	3.80	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	505.5	B.2.4.5-8	4.00	3.90	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	505.5	B.2.4.5-8	4.60	3.80	0.04	0.00	0.00
N-3.60	B296	670	VC0.5x1	506.0	B.2.4.5-8	4.60	3.80	0.04	0.00	0.00
N-3.60	B326	694	VC0.5x1	49.0	B.2.4.5-8	8.40	5.60	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	98.0	B.2.4.5-8	8.50	4.20	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	98.0	B.2.4.5-8	7.00	4.00	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	147.0	B.2.4.5-8	7.20	4.00	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	147.0	B.2.4.5-8	5.70	3.90	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	196.0	B.2.4.5-8	6.20	3.90	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	196.0	B.2.4.5-8	4.40	3.90	0.08	0.00	0.00
N-3.60	B326	694	VC0.5x1	245.0	B.2.4.5-8	5.60	3.90	0.09	0.00	0.00
N-3.60	B326	694	VC0.5x1	245.0	B.2.4.5-8	4.80	4.00	0.09	0.00	0.00
N-3.60	B326	694	VC0.5x1	294.0	B.2.4.7-8	4.00	4.00	0.09	0.00	0.00
N-3.60	B326	694	VC0.5x1	294.0	B.2.4.7-8	4.10	4.10	0.08	0.00	0.00
N-3.60	B326	694	VC0.5x1	343.0	B.2.4.7-8	4.10	4.20	0.08	0.00	0.00
N-3.60	B326	694	VC0.5x1	343.0	B.2.4.7-8	4.30	5.00	0.08	0.00	0.00
N-3.60	B326	694	VC0.5x1	392.0	B.2.4.7-8	4.30	5.70	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	392.0	B.2.4.7-8	4.40	6.70	0.07	0.00	0.00
N-3.60	B326	694	VC0.5x1	441.0	B.2.4.7-8	3.20	7.20	0.07	0.00	0.00
N-3.60	B328	1420	VC0.5x1	50.0	B.2.4.7-4	1.50	26.70	0.34	0.00	0.00
N-3.60	B328	1420	VC0.5x1	50.3	B.2.4.5-3	9.70	26.50	0.34	0.00	0.00
N-3.60	B328	1420	VC0.5x1	50.3	B.2.4.5-3	10.70	26.10	0.30	0.00	0.00
N-3.60	B328	1420	VC0.5x1	75.5	B.2.4.5-3	10.70	16.40	0.30	0.00	0.00
N-3.60	B328	1420	VC0.5x1	100.7	B.2.4.5-3	10.70	10.70	0.30	0.00	0.00
N-3.60	B328	1420	VC0.5x1	100.7	B.2.4.5-3	10.80	10.80	0.14	0.00	0.00
N-3.60	B328	1420	VC0.5x1	106.5	B.2.4.5-3	10.80	10.80	0.14	0.00	0.00
N-3.60	B328	1420	VC0.5x1	106.5	B.2.4.5-3	10.80	10.80	0.22	0.00	0.00
N-3.60	B328	1420	VC0.5x1	151.0	B.2.4.5-3	10.80	10.80	0.22	0.00	0.00
N-3.60	B328	1420	VC0.5x1	151.0	B.2.4.5-3	11.10	10.80	0.19	0.00	0.00
N-3.60	B328	1420	VC0.5x1	176.2	B.2.4.5-3	14.30	10.80	0.19	0.00	0.00
N-3.60	B328	1420	VC0.5x1	201.3	B.2.4.5-3	15.40	10.80	0.20	0.00	0.00
N-3.60	B328	1420	VC0.5x1	201.3	B.2.4.5-3	15.40	10.90	0.16	0.00	0.00
N-3.60	B328	1420	VC0.5x1	226.5	B.2.4.5-3	16.60	10.90	0.16	0.00	0.00
N-3.60	B328	1420	VC0.5x1	226.5	B.2.4.5-3	16.90	10.90	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	251.7	B.2.4.5-3	17.20	10.90	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	251.7	B.2.4.5-3	17.20	10.90	0.11	0.00	0.00
N-3.60	B328	1420	VC0.5x1	276.8	B.2.4.5-3	17.30	10.90	0.11	0.00	0.00
N-3.60	B328	1420	VC0.5x1	302.0	B.2.4.5-3	17.30	10.90	0.11	0.00	0.00
N-3.60	B328	1420	VC0.5x1	302.0	B.2.4.5-3	17.30	10.90	0.12	0.00	0.00
N-3.60	B328	1420	VC0.5x1	334.9	B.2.4.5-3	16.90	10.90	0.11	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B328	1420	VC0.5x1	334.9	B.2.4.5-3	16.70	10.90	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	346.5	B.2.4.5-3	16.70	10.90	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	346.5	B.2.4.5-3	16.10	10.80	0.10	0.00	0.00
N-3.60	B328	1420	VC0.5x1	352.3	B.2.4.5-3	16.00	10.80	0.10	0.00	0.00
N-3.60	B328	1420	VC0.5x1	352.3	B.2.4.5-3	15.50	10.80	0.18	0.00	0.00
N-3.60	B328	1420	VC0.5x1	396.4	B.2.4.5-3	15.40	10.80	0.18	0.00	0.00
N-3.60	B328	1420	VC0.5x1	396.4	B.2.4.5-3	15.10	10.80	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	402.7	B.2.4.5-3	15.10	10.80	0.09	0.00	0.00
N-3.60	B328	1420	VC0.5x1	402.7	B.2.4.5-3	14.00	9.50	0.21	0.00	0.00
N-3.60	B328	1420	VC0.5x1	403.0	B.2.4.5-3	14.00	7.60	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	50.0	B.2.4.7-4	1.50	27.50	0.34	0.00	0.00
N-3.60	B339	1407	VC0.5x1	50.3	B.2.4.5-3	9.90	27.30	0.34	0.00	0.00
N-3.60	B339	1407	VC0.5x1	50.3	B.2.4.5-3	10.90	26.80	0.32	0.00	0.00
N-3.60	B339	1407	VC0.5x1	75.5	B.2.4.5-3	10.90	16.20	0.32	0.00	0.00
N-3.60	B339	1407	VC0.5x1	100.7	B.2.4.5-3	10.90	10.90	0.32	0.00	0.00
N-3.60	B339	1407	VC0.5x1	100.7	B.2.4.5-3	11.00	11.00	0.13	0.00	0.00
N-3.60	B339	1407	VC0.5x1	106.5	B.2.4.5-3	11.00	11.00	0.13	0.00	0.00
N-3.60	B339	1407	VC0.5x1	106.5	B.2.4.5-3	11.00	11.00	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	151.0	B.2.4.5-3	11.80	11.00	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	151.0	B.2.4.5-3	12.50	11.00	0.18	0.00	0.00
N-3.60	B339	1407	VC0.5x1	176.2	B.2.4.5-3	15.40	11.00	0.18	0.00	0.00
N-3.60	B339	1407	VC0.5x1	201.3	B.2.4.5-3	16.10	11.00	0.18	0.00	0.00
N-3.60	B339	1407	VC0.5x1	201.3	B.2.4.5-3	16.70	11.00	0.14	0.00	0.00
N-3.60	B339	1407	VC0.5x1	226.5	B.2.4.5-3	19.10	11.00	0.14	0.00	0.00
N-3.60	B339	1407	VC0.5x1	226.5	B.2.4.5-3	19.30	10.90	0.09	0.00	0.00
N-3.60	B339	1407	VC0.5x1	251.7	B.2.4.5-3	19.30	10.90	0.08	0.00	0.00
N-3.60	B339	1407	VC0.5x1	251.7	B.2.4.5-3	19.20	10.90	0.10	0.00	0.00
N-3.60	B339	1407	VC0.5x1	276.8	B.2.4.5-3	18.70	10.90	0.10	0.00	0.00
N-3.60	B339	1407	VC0.5x1	302.0	B.2.4.5-3	18.30	10.90	0.10	0.00	0.00
N-3.60	B339	1407	VC0.5x1	302.0	B.2.4.5-3	18.10	10.80	0.12	0.00	0.00
N-3.60	B339	1407	VC0.5x1	346.5	B.2.4.5-3	16.40	10.80	0.12	0.00	0.00
N-3.60	B339	1407	VC0.5x1	346.5	B.2.4.5-3	15.50	10.80	0.09	0.00	0.00
N-3.60	B339	1407	VC0.5x1	352.3	B.2.4.5-3	15.40	10.80	0.09	0.00	0.00
N-3.60	B339	1407	VC0.5x1	352.3	B.2.4.5-3	15.40	10.70	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	377.5	B.2.4.5-3	15.20	10.70	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	402.7	B.2.4.5-3	10.90	10.70	0.21	0.00	0.00
N-3.60	B339	1407	VC0.5x1	402.7	B.2.4.5-3	9.50	9.50	0.24	0.00	0.00
N-3.60	B339	1407	VC0.5x1	403.0	B.2.4.5-3	9.40	5.20	0.24	0.00	0.00
N-3.60	B341	1513	VC0.5x1	50.0	B.2.4.5-3	2.40	23.90	0.35	0.00	0.00
N-3.60	B341	1513	VC0.5x1	51.7	B.2.4.5-3	9.60	23.10	0.35	0.00	0.00
N-3.60	B341	1513	VC0.5x1	51.7	B.2.4.5-3	11.10	22.30	0.29	0.00	0.00
N-3.60	B341	1513	VC0.5x1	80.5	B.2.4.5-3	11.10	15.40	0.29	0.00	0.00
N-3.60	B341	1513	VC0.5x1	80.5	B.2.4.5-3	11.10	14.50	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	87.5	B.2.4.5-3	11.10	14.20	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	87.5	B.2.4.5-3	11.10	14.40	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	89.2	B.2.4.5-3	11.10	14.40	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	89.2	B.2.4.5-3	11.10	12.20	0.03	0.00	0.00
N-3.60	B341	1513	VC0.5x1	103.3	B.2.4.5-3	11.10	11.10	0.03	0.00	0.00
N-3.60	B341	1513	VC0.5x1	103.3	B.2.4.5-3	11.10	11.10	0.08	0.00	0.00
N-3.60	B341	1513	VC0.5x1	140.9	B.2.4.5-3	11.10	11.10	0.08	0.00	0.00
N-3.60	B341	1513	VC0.5x1	140.9	B.2.4.5-3	11.10	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	155.0	B.2.4.5-3	11.10	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	155.0	B.2.4.5-3	11.70	11.10	0.05	0.00	0.00
N-3.60	B341	1513	VC0.5x1	193.7	B.2.4.5-3	15.40	11.10	0.06	0.00	0.00
N-3.60	B341	1513	VC0.5x1	193.7	B.2.4.5-3	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	206.7	B.2.4.5-3	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	206.7	B.2.4.5-3	15.40	11.10	0.00	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B341	1513	VC0.5x1	207.5	B.2.4.5-3	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	207.5	B.2.4.5-3	15.40	11.00	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	211.4	B.2.4.5-3	15.40	11.00	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	211.4	B.2.4.5-3	15.40	11.00	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	258.3	B.2.4.2-2	15.40	11.00	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	258.3	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	284.2	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	310.0	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	310.0	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	327.5	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	327.5	B.2.4.2-2	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	361.7	B.2.4.5-3	15.40	11.10	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	361.7	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	387.5	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	387.5	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	413.3	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	413.3	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	422.7	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	422.7	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	447.5	B.2.4.5-3	15.40	11.20	0.00	0.00	0.00
N-3.60	B341	1513	VC0.5x1	447.5	B.2.4.5-3	15.40	11.20	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	465.0	B.2.4.5-3	15.40	11.20	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	465.0	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	489.5	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	489.5	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	516.7	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	516.7	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	563.6	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	563.6	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	567.5	B.2.4.5-3	15.40	11.30	0.04	0.00	0.00
N-3.60	B341	1513	VC0.5x1	567.5	B.2.4.5-3	15.40	11.30	0.04	17.00	0.06
N-3.60	B341	1513	VC0.5x1	568.3	B.2.4.5-3	15.40	11.30	0.04	17.00	0.06
N-3.60	B341	1513	VC0.5x1	568.3	B.2.4.5-3	15.00	11.40	0.04	17.20	0.06
N-3.60	B341	1513	VC0.5x1	581.2	B.2.4.5-3	14.60	11.40	0.04	17.20	0.06
N-3.60	B341	1513	VC0.5x1	581.2	B.2.4.5-3	13.20	11.40	0.04	17.20	0.06
N-3.60	B341	1513	VC0.5x1	620.0	B.2.4.5-3	11.40	11.40	0.04	17.20	0.06
N-3.60	B341	1513	VC0.5x1	620.0	B.2.4.5-3	11.40	11.40	0.06	17.90	0.07
N-3.60	B341	1513	VC0.5x1	645.8	B.2.4.5-3	11.40	11.40	0.06	17.90	0.07
N-3.60	B341	1513	VC0.5x1	671.7	B.2.4.5-3	11.40	11.40	0.06	17.90	0.07
N-3.60	B341	1513	VC0.5x1	671.7	B.2.4.5-3	11.50	11.50	0.04	18.00	0.07
N-3.60	B341	1513	VC0.5x1	687.5	B.2.4.5-3	11.50	11.50	0.04	18.00	0.07
N-3.60	B341	1513	VC0.5x1	687.5	B.2.4.5-3	11.50	12.10	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	694.5	B.2.4.5-3	11.50	12.20	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	694.5	B.2.4.5-3	11.50	13.50	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	704.5	B.2.4.5-3	11.50	14.40	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	704.5	B.2.4.5-3	11.50	15.40	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	723.3	B.2.4.5-3	11.50	15.40	0.04	23.20	0.09
N-3.60	B341	1513	VC0.5x1	723.3	B.2.4.5-3	11.50	15.40	0.12	21.40	0.08
N-3.60	B341	1513	VC0.5x1	749.2	B.2.4.5-3	11.50	18.50	0.11	21.40	0.08
N-3.60	B341	1513	VC0.5x1	775.0	B.2.4.7-4	5.40	22.30	0.11	21.40	0.08
N-3.60	B355	1427	VC0.5x1	0.0	B.2.4.5-3	22.60	15.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	26.2	B.2.4.5-3	21.90	11.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	52.3	B.2.4.5-3	21.20	11.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	52.3	B.2.4.5-3	21.00	11.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	78.5	B.2.4.5-3	20.30	11.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	78.5	B.2.4.5-3	19.70	11.40	0.21	0.00	0.00
N-3.60	B355	1427	VC0.5x1	97.0	B.2.4.5-3	19.50	11.40	0.21	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B355	1427	VC0.5x1	97.0	B.2.4.5-3	19.20	11.50	0.23	0.00	0.00
N-3.60	B355	1427	VC0.5x1	104.7	B.2.4.5-3	18.90	11.50	0.23	0.00	0.00
N-3.60	B355	1427	VC0.5x1	104.7	B.2.4.5-3	18.30	11.50	0.33	0.00	0.00
N-3.60	B355	1427	VC0.5x1	130.8	B.2.4.5-3	15.40	11.50	0.33	0.00	0.00
N-3.60	B355	1427	VC0.5x1	157.0	B.2.4.5-3	14.40	11.50	0.32	0.00	0.00
N-3.60	B355	1427	VC0.5x1	157.0	B.2.4.5-3	13.20	11.60	0.34	0.00	0.00
N-3.60	B355	1427	VC0.5x1	196.3	B.2.4.5-3	11.60	11.60	0.34	0.00	0.00
N-3.60	B355	1427	VC0.5x1	196.3	B.2.4.5-3	11.60	11.60	0.24	0.00	0.00
N-3.60	B355	1427	VC0.5x1	209.3	B.2.4.5-3	11.60	11.60	0.24	0.00	0.00
N-3.60	B355	1427	VC0.5x1	209.3	B.2.4.5-3	11.60	11.60	0.25	0.00	0.00
N-3.60	B355	1427	VC0.5x1	217.0	B.2.4.5-3	11.60	11.60	0.25	0.00	0.00
N-3.60	B355	1427	VC0.5x1	217.0	B.2.4.5-3	11.50	11.50	0.09	0.00	0.00
N-3.60	B355	1427	VC0.5x1	235.5	B.2.4.5-3	11.50	15.30	0.37	0.00	0.00
N-3.60	B355	1427	VC0.5x1	235.5	B.2.4.5-3	11.50	17.70	0.18	0.00	0.00
N-3.60	B355	1427	VC0.5x1	261.7	B.2.4.5-3	11.50	24.80	0.18	0.00	0.00
N-3.60	B355	1427	VC0.5x1	261.7	B.2.4.5-3	10.10	26.30	0.00	0.00	0.00
N-3.60	B355	1427	VC0.5x1	264.0	B.2.4.5-3	1.70	27.60	0.00	0.00	0.00
N-3.60	B392	1213	VC0.5x1	50.0	B.2.4.7-4	2.10	25.00	0.32	0.00	0.00
N-3.60	B392	1213	VC0.5x1	50.3	B.2.4.5-3	9.60	24.90	0.32	0.00	0.00
N-3.60	B392	1213	VC0.5x1	50.3	B.2.4.5-3	9.80	23.40	0.27	0.00	0.00
N-3.60	B392	1213	VC0.5x1	75.5	B.2.4.5-3	9.80	15.40	0.27	0.00	0.00
N-3.60	B392	1213	VC0.5x1	100.7	B.2.4.5-3	9.80	9.80	0.28	0.00	0.00
N-3.60	B392	1213	VC0.5x1	100.7	B.2.4.5-3	9.90	9.90	0.11	0.00	0.00
N-3.60	B392	1213	VC0.5x1	106.5	B.2.4.5-3	9.90	9.90	0.11	0.00	0.00
N-3.60	B392	1213	VC0.5x1	106.5	B.2.4.5-3	10.00	10.00	0.19	0.00	0.00
N-3.60	B392	1213	VC0.5x1	151.0	B.2.4.5-3	10.40	10.00	0.19	0.00	0.00
N-3.60	B392	1213	VC0.5x1	151.0	B.2.4.5-3	11.20	10.10	0.16	0.00	0.00
N-3.60	B392	1213	VC0.5x1	176.2	B.2.4.5-3	15.00	10.10	0.16	0.00	0.00
N-3.60	B392	1213	VC0.5x1	201.3	B.2.4.5-3	15.40	10.10	0.17	0.00	0.00
N-3.60	B392	1213	VC0.5x1	201.3	B.2.4.5-3	15.40	10.20	0.13	0.00	0.00
N-3.60	B392	1213	VC0.5x1	226.5	B.2.4.5-3	16.90	10.20	0.13	0.00	0.00
N-3.60	B392	1213	VC0.5x1	226.5	B.2.4.5-3	17.10	10.20	0.07	0.00	0.00
N-3.60	B392	1213	VC0.5x1	251.7	B.2.4.5-3	17.10	10.20	0.07	0.00	0.00
N-3.60	B392	1213	VC0.5x1	251.7	B.2.4.5-3	17.10	10.30	0.09	0.00	0.00
N-3.60	B392	1213	VC0.5x1	276.8	B.2.4.5-3	16.70	10.30	0.09	0.00	0.00
N-3.60	B392	1213	VC0.5x1	302.0	B.2.4.5-3	16.30	10.30	0.09	0.00	0.00
N-3.60	B392	1213	VC0.5x1	302.0	B.2.4.5-3	16.30	10.30	0.11	0.00	0.00
N-3.60	B392	1213	VC0.5x1	346.5	B.2.4.5-3	15.40	10.30	0.10	0.00	0.00
N-3.60	B392	1213	VC0.5x1	346.5	B.2.4.5-3	15.40	10.30	0.08	0.00	0.00
N-3.60	B392	1213	VC0.5x1	352.3	B.2.4.5-3	15.40	10.30	0.08	0.00	0.00
N-3.60	B392	1213	VC0.5x1	352.3	B.2.4.5-3	15.40	10.30	0.17	0.00	0.00
N-3.60	B392	1213	VC0.5x1	377.5	B.2.4.5-3	14.40	10.30	0.17	0.00	0.00
N-3.60	B392	1213	VC0.5x1	402.7	B.2.4.5-3	10.80	10.30	0.17	0.00	0.00
N-3.60	B392	1213	VC0.5x1	402.7	B.2.4.5-3	10.20	10.20	0.18	0.00	0.00
N-3.60	B392	1213	VC0.5x1	403.0	B.2.4.5-3	10.10	6.40	0.18	0.00	0.00
N-3.60	B398	1179	VC0.5x1	0.0	B.2.4.5-3	15.40	10.30	0.16	0.00	0.00
N-3.60	B398	1179	VC0.5x1	26.2	B.2.4.5-3	15.40	9.70	0.16	0.00	0.00
N-3.60	B398	1179	VC0.5x1	52.3	B.2.4.5-3	15.40	9.70	0.16	0.00	0.00
N-3.60	B398	1179	VC0.5x1	52.3	B.2.4.5-3	15.40	9.80	0.13	0.00	0.00
N-3.60	B398	1179	VC0.5x1	53.6	B.2.4.5-3	15.40	9.80	0.13	0.00	0.00
N-3.60	B398	1179	VC0.5x1	53.6	B.2.4.5-3	15.40	9.80	0.15	0.00	0.00
N-3.60	B398	1179	VC0.5x1	97.0	B.2.4.5-3	15.70	9.80	0.15	0.00	0.00
N-3.60	B398	1179	VC0.5x1	97.0	B.2.4.5-3	15.90	9.80	0.15	0.00	0.00
N-3.60	B398	1179	VC0.5x1	104.7	B.2.4.5-3	15.70	9.80	0.15	0.00	0.00
N-3.60	B398	1179	VC0.5x1	104.7	B.2.4.5-3	15.40	9.80	0.23	0.00	0.00
N-3.60	B398	1179	VC0.5x1	130.8	B.2.4.5-3	15.40	9.80	0.23	0.00	0.00
N-3.60	B398	1179	VC0.5x1	157.0	B.2.4.5-3	13.30	9.80	0.23	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B398	1179	VC0.5x1	157.0	B.2.4.5-3	12.70	9.70	0.27	0.00	0.00
N-3.60	B398	1179	VC0.5x1	183.2	B.2.4.5-3	9.70	9.70	0.27	0.00	0.00
N-3.60	B398	1179	VC0.5x1	209.3	B.2.4.5-3	9.70	9.70	0.27	0.00	0.00
N-3.60	B398	1179	VC0.5x1	209.3	B.2.4.5-3	9.70	9.70	0.17	0.00	0.00
N-3.60	B398	1179	VC0.5x1	217.0	B.2.4.5-3	9.70	9.70	0.17	0.00	0.00
N-3.60	B398	1179	VC0.5x1	217.0	B.2.4.5-3	9.50	9.50	0.31	0.00	0.00
N-3.60	B398	1179	VC0.5x1	261.7	B.2.4.5-3	9.50	20.90	0.31	0.00	0.00
N-3.60	B398	1179	VC0.5x1	261.7	B.2.4.5-3	8.20	21.10	0.36	0.00	0.00
N-3.60	B398	1179	VC0.5x1	264.0	B.2.4.5-3	1.40	22.30	0.36	0.00	0.00
N-3.60	B401	1550	VC0.5x1	0.0	B.2.4.5-8	7.20	5.10	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	34.4	B.2.4.5-8	7.10	5.30	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	34.4	B.2.4.5-8	5.20	5.20	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	83.5	B.2.4.5-8	5.20	5.20	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	83.5	B.2.4.5-8	5.00	5.00	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	132.6	B.2.4.5-8	5.00	5.00	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	132.6	B.2.4.5-8	4.90	5.60	0.12	12.70	0.05
N-3.60	B401	1550	VC0.5x1	181.8	B.2.4.5-8	4.90	6.20	0.12	12.70	0.05
N-3.60	B401	1550	VC0.5x1	181.8	B.2.4.5-8	4.70	8.50	0.12	12.70	0.05
N-3.60	B401	1550	VC0.5x1	230.9	B.2.4.5-8	4.70	9.10	0.12	12.70	0.05
N-3.60	B401	1550	VC0.5x1	230.9	B.2.4.5-8	4.60	11.30	0.11	12.80	0.05
N-3.60	B401	1550	VC0.5x1	280.0	B.2.4.5-8	2.20	11.50	0.11	12.80	0.05
N-3.60	B404	4256	VC0.5x1	0.0	B.2.4.5-3	6.10	4.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	26.2	B.2.4.5-3	6.10	2.80	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	52.3	B.2.4.5-3	6.10	2.80	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	52.3	B.2.4.5-3	6.00	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	61.0	B.2.4.5-3	6.00	3.00	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	61.0	B.2.4.5-3	5.40	2.90	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	97.0	B.2.4.5-3	5.60	2.90	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	97.0	B.2.4.5-3	5.80	3.10	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	102.2	B.2.4.5-3	5.80	3.10	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	102.2	B.2.4.5-3	5.50	3.00	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	104.7	B.2.4.5-3	5.50	3.00	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	104.7	B.2.4.5-3	5.50	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	125.6	B.2.4.5-3	5.30	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	125.6	B.2.4.5-3	4.80	2.90	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	157.0	B.2.4.5-3	5.00	2.90	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	157.0	B.2.4.5-3	4.60	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	183.2	B.2.4.5-3	4.60	3.00	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	209.3	B.2.4.5-3	4.70	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	209.3	B.2.4.5-3	4.40	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	217.0	B.2.4.5-3	4.50	3.00	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	217.0	B.2.4.5-3	3.80	3.10	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	261.7	B.2.4.5-3	3.40	3.10	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	261.7	B.2.4.5-3	3.20	3.10	0.05	0.00	0.00
N-3.60	B404	4256	VC0.5x1	298.3	B.2.4.5-3	3.10	3.10	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	298.3	B.2.4.5-3	3.00	3.00	0.04	0.00	0.00
N-3.60	B404	4256	VC0.5x1	314.0	B.2.4.5-3	2.90	2.40	0.04	0.00	0.00
N-3.60	B405	1546	VC0.5x1	0.0	B.2.4.5-3	2.20	4.60	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	25.8	B.2.4.5-3	2.80	4.70	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	51.7	B.2.4.5-3	2.80	4.70	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	51.7	B.2.4.5-3	2.80	5.70	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	87.5	B.2.4.5-3	2.80	5.80	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	87.5	B.2.4.5-3	2.70	6.30	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	97.4	B.2.4.5-3	2.70	6.40	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	97.4	B.2.4.5-3	2.80	6.80	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	103.3	B.2.4.5-3	2.80	6.80	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	103.3	B.2.4.5-3	2.80	7.40	0.05	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B405	1546	VC0.5x1	129.2	B.2.4.5-3	2.80	7.50	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	155.0	B.2.4.5-3	2.80	7.60	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	155.0	B.2.4.5-8	0.60	0.60	0.05	0.00	0.00
N-3.60	B405	1546	VC0.5x1	156.0	B.2.4.4-4	0.00	0.00	0.05	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	50.0	B.2.4.5-8	0.60	28.10	0.36	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	50.5	B.2.4.5-8	9.40	27.80	0.36	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	50.5	B.2.4.5-8	10.40	27.50	0.35	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	75.8	B.2.4.5-8	10.40	18.90	0.35	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	101.1	B.2.4.5-8	10.40	14.30	0.35	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	101.1	B.2.4.5-8	10.60	13.20	0.24	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	126.4	B.2.4.5-8	10.60	10.60	0.25	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	151.6	B.2.4.5-8	10.60	10.60	0.25	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	151.6	B.2.4.5-8	10.80	10.80	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	176.9	B.2.4.5-8	12.70	10.80	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	202.2	B.2.4.4-4	15.40	10.80	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	202.2	B.2.4.4-4	15.40	11.00	0.12	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	227.5	B.2.4.5-8	16.40	11.00	0.12	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	252.7	B.2.4.5-8	19.20	11.00	0.13	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	252.7	B.2.4.5-8	19.80	11.10	0.08	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	278.0	B.2.4.5-8	21.60	11.10	0.08	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	278.0	B.2.4.5-8	21.60	11.30	0.06	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	303.3	B.2.4.5-8	20.50	11.30	0.06	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	303.3	B.2.4.5-8	20.30	11.40	0.09	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	328.5	B.2.4.5-8	18.40	11.40	0.09	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	353.8	B.2.4.5-8	16.60	11.40	0.09	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	353.8	B.2.4.5-8	16.40	11.70	0.13	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	379.1	B.2.4.2-2	15.40	11.70	0.13	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	404.4	B.2.4.5-8	14.90	11.70	0.13	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	404.4	B.2.4.5-8	14.50	11.90	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	429.6	B.2.4.5-8	11.90	11.90	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	454.9	B.2.4.5-8	11.90	11.90	0.18	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	454.9	B.2.4.5-8	12.00	12.00	0.24	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	480.2	B.2.4.5-8	12.00	12.50	0.24	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	505.5	B.2.4.5-8	12.00	15.40	0.24	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	505.5	B.2.4.5-8	11.20	15.40	0.32	0.00	0.00
N-3.60	B1282	1429	VC0.5x1	506.0	B.2.4.5-8	2.40	15.40	0.32	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	0.0	B.2.4.5-3	5.50	4.00	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	25.8	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	51.7	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	51.7	B.2.4.5-3	14.50	14.50	0.02	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	87.5	B.2.4.5-3	14.50	14.50	0.02	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	87.5	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	103.3	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	103.3	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	129.2	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	155.0	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	155.0	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	180.8	B.2.4.5-3	14.50	14.50	0.03	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	206.7	B.2.4.5-3	14.50	14.50	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	206.7	B.2.4.5-3	14.50	14.50	0.02	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	207.5	B.2.4.5-3	14.50	14.50	0.02	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	207.5	B.2.4.5-3	14.50	14.50	0.05	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	232.9	B.2.4.5-3	14.50	14.50	0.05	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	258.3	B.2.4.5-3	14.50	14.50	0.05	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	258.3	B.2.4.5-3	14.50	14.50	0.05	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	284.2	B.2.4.5-3	14.50	14.50	0.05	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1287	1509	VC0.5x1	516.7	B.2.4.5-3	17.90	14.60	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	542.1	B.2.4.5-3	17.10	14.60	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	567.5	B.2.4.5-3	16.30	14.60	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	567.5	B.2.4.5-3	16.30	14.60	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	568.3	B.2.4.5-3	16.30	14.60	0.04	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	568.3	B.2.4.5-3	15.90	14.60	0.18	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	594.2	B.2.4.5-3	14.80	14.60	0.18	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	620.0	B.2.4.5-3	14.60	14.60	0.18	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	620.0	B.2.4.5-3	14.60	14.60	0.26	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	645.8	B.2.4.5-3	14.60	14.60	0.26	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	671.7	B.2.4.5-3	14.60	14.70	0.26	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	671.7	B.2.4.5-3	14.60	15.40	0.15	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	687.5	B.2.4.5-3	14.60	15.40	0.15	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	687.5	B.2.4.5-3	14.60	19.30	0.35	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	723.3	B.2.4.5-3	14.60	37.10	0.34	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	723.3	B.2.4.5-3	14.70	39.90	0.32	0.00	0.00
N-3.60	B1287	1509	VC0.5x1	725.0	B.2.4.7-4	6.60	41.00	0.32	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	0.0	B.2.4.5-3	1.60	15.40	0.03	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	26.2	B.2.4.5-3	5.10	12.80	0.04	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	52.3	B.2.4.5-3	5.10	10.30	0.04	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	52.3	B.2.4.5-3	5.40	10.20	0.03	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	97.0	B.2.4.5-3	5.40	6.30	0.03	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	97.0	B.2.4.5-3	5.50	5.90	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	104.7	B.2.4.5-3	5.50	5.80	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	104.7	B.2.4.5-3	5.60	5.60	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	130.8	B.2.4.5-3	5.60	5.60	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	157.0	B.2.4.5-3	5.60	5.60	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	157.0	B.2.4.5-3	5.70	5.70	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	183.2	B.2.4.5-3	5.70	5.70	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	209.3	B.2.4.5-3	5.70	5.70	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	209.3	B.2.4.5-3	5.80	5.80	0.04	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	217.0	B.2.4.5-3	5.80	5.80	0.04	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	217.0	B.2.4.5-3	5.80	5.80	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	261.7	B.2.4.5-3	5.80	5.80	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	261.7	B.2.4.5-3	5.90	5.90	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	287.8	B.2.4.5-3	5.90	5.90	0.00	0.00	0.00
N-3.60	B1288	1426	VC0.5x1	314.0	B.2.4.5-3	6.00	4.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	50.0	B.2.4.7-4	8.00	28.30	0.26	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	50.6	B.2.4.5-3	9.80	28.00	0.26	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	50.6	B.2.4.5-3	9.90	26.40	0.23	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	76.0	B.2.4.5-3	9.90	16.70	0.23	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	101.3	B.2.4.5-3	9.90	10.00	0.23	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	101.3	B.2.4.5-3	10.00	10.00	0.15	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	114.5	B.2.4.5-3	10.00	10.00	0.15	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	114.5	B.2.4.5-3	10.10	10.10	0.05	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	141.8	B.2.4.5-3	10.10	10.10	0.05	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	141.8	B.2.4.5-3	10.10	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	151.9	B.2.4.5-3	10.10	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	151.9	B.2.4.5-8	10.30	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	177.3	B.2.4.5-8	12.10	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	177.3	B.2.4.5-8	14.10	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	202.6	B.2.4.5-3	15.40	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	202.6	B.2.4.5-3	15.40	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	234.5	B.2.4.5-3	15.70	10.10	0.04	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	234.5	B.2.4.5-3	15.70	10.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	253.2	B.2.4.5-3	15.70	10.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	253.2	B.2.4.5-3	15.60	10.20	0.00	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B1289	1422	VC0.5x1	283.6	B.2.4.5-3	15.40	10.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	283.6	B.2.4.5-3	15.40	10.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	303.9	B.2.4.5-3	15.40	10.20	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	303.9	B.2.4.5-3	15.40	10.20	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	329.2	B.2.4.5-3	15.40	10.20	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	354.5	B.2.4.5-3	15.40	10.20	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	354.5	B.2.4.5-3	15.40	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	379.8	B.2.4.5-3	15.40	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	405.1	B.2.4.5-3	14.90	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	405.1	B.2.4.5-3	14.80	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	430.5	B.2.4.5-3	13.20	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	455.8	B.2.4.5-3	11.80	10.30	0.02	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	455.8	B.2.4.5-3	11.50	10.40	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	474.5	B.2.4.5-3	10.80	10.40	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	474.5	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	496.3	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	496.3	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	506.4	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	506.4	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	531.8	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	531.8	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	557.1	B.2.4.5-3	10.40	10.40	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	557.1	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	594.5	B.2.4.5-3	10.50	10.50	0.01	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	594.5	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	607.7	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	607.7	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	638.1	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	638.1	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	658.4	B.2.4.5-3	10.50	10.50	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	658.4	B.2.4.5-3	10.60	10.60	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	683.7	B.2.4.5-3	10.60	10.60	0.00	0.00	0.00
N-3.60	B1289	1422	VC0.5x1	709.0	B.2.4.5-3	4.20	3.00	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	0.0	B.2.4.5-3	4.40	3.20	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	25.2	B.2.4.5-3	4.60	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	50.3	B.2.4.5-3	4.60	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	50.3	B.2.4.5-3	4.70	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	75.5	B.2.4.5-3	4.90	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	100.7	B.2.4.5-3	5.20	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	100.7	B.2.4.5-3	5.20	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	106.5	B.2.4.5-3	5.20	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	106.5	B.2.4.5-3	5.50	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	151.0	B.2.4.5-3	6.40	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	151.0	B.2.4.5-3	6.50	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	176.2	B.2.4.5-3	7.00	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	201.3	B.2.4.5-3	7.60	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	201.3	B.2.4.5-3	7.80	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	226.5	B.2.4.5-3	8.30	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	226.5	B.2.4.5-3	8.60	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	251.7	B.2.4.5-3	8.90	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	251.7	B.2.4.5-3	8.90	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	276.8	B.2.4.5-3	9.20	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	302.0	B.2.4.5-3	9.40	4.60	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	302.0	B.2.4.5-3	9.40	4.50	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	346.5	B.2.4.5-3	9.40	4.50	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	346.5	B.2.4.5-3	9.20	4.50	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	352.3	B.2.4.5-3	9.10	4.60	0.00	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1290	1421	VC0.5x1	352.3	B.2.4.5-3	8.80	4.70	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	377.5	B.2.4.5-3	7.40	6.00	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	402.7	B.2.4.7-4	6.20	7.50	0.00	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	402.7	B.2.4.7-4	5.70	7.50	0.01	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	427.8	B.2.4.7-4	4.60	9.70	0.01	0.00	0.00
N-3.60	B1290	1421	VC0.5x1	453.0	B.2.4.7-4	3.50	11.80	0.01	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	0.0	B.2.4.7-8	3.40	11.00	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	25.8	B.2.4.5-8	4.40	10.90	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	51.5	B.2.4.5-8	4.40	10.90	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	51.5	B.2.4.5-8	4.20	9.80	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	77.3	B.2.4.5-8	4.20	9.70	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	103.0	B.2.4.5-8	4.20	9.60	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	103.0	B.2.4.5-8	4.00	8.60	0.11	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	128.8	B.2.4.5-8	4.00	8.60	0.11	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	154.5	B.2.4.5-8	4.00	8.50	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	154.5	B.2.4.5-8	3.90	8.20	0.10	0.00	0.00
N-3.60	B1292	1410	VC0.5x1	198.0	B.2.4.5-8	1.60	8.30	0.10	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	0.0	B.2.4.7-4	4.60	48.60	0.29	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	25.3	B.2.4.5-3	15.40	37.00	0.29	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	50.6	B.2.4.5-3	15.40	26.20	0.30	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	50.6	B.2.4.5-3	15.40	24.80	0.27	12.40	0.05
N-3.60	B1918	1408	VC0.5x1	76.0	B.2.4.5-3	15.40	15.60	0.27	12.40	0.05
N-3.60	B1918	1408	VC0.5x1	101.3	B.2.4.5-3	15.40	15.40	0.27	12.40	0.05
N-3.60	B1918	1408	VC0.5x1	101.3	B.2.4.5-3	15.40	15.40	0.14	13.00	0.05
N-3.60	B1918	1408	VC0.5x1	114.5	B.2.4.5-3	15.40	15.40	0.14	13.00	0.05
N-3.60	B1918	1408	VC0.5x1	114.5	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	151.9	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	151.9	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	177.3	B.2.4.5-3	15.40	15.40	0.11	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	202.6	B.2.4.5-8	15.50	15.40	0.11	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	202.6	B.2.4.5-8	16.00	15.40	0.08	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	234.5	B.2.4.5-8	18.70	15.40	0.09	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	234.5	B.2.4.5-8	18.80	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	253.2	B.2.4.5-8	19.00	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	253.2	B.2.4.5-8	19.00	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	278.5	B.2.4.5-3	19.40	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	303.9	B.2.4.5-3	19.90	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	303.9	B.2.4.5-3	19.90	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	329.2	B.2.4.5-3	20.20	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	354.5	B.2.4.5-3	20.40	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	354.5	B.2.4.5-3	20.30	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	379.8	B.2.4.5-3	19.60	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	405.1	B.2.4.5-3	19.00	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	405.1	B.2.4.5-3	18.90	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	430.5	B.2.4.5-3	18.10	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	455.8	B.2.4.5-3	17.40	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	455.8	B.2.4.5-3	17.20	15.40	0.04	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	474.5	B.2.4.5-3	16.80	15.40	0.03	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	474.5	B.2.4.5-3	16.70	15.40	0.10	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	506.4	B.2.4.5-3	15.40	15.40	0.09	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	506.4	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	531.8	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	557.1	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	557.1	B.2.4.5-3	15.40	15.40	0.13	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	594.5	B.2.4.5-3	15.40	15.40	0.13	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	594.5	B.2.4.5-3	15.40	15.40	0.17	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	607.7	B.2.4.5-3	15.40	15.40	0.17	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1918	1408	VC0.5x1	607.7	B.2.4.5-3	15.40	15.40	0.37	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	633.0	B.2.4.5-3	15.40	15.40	0.36	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	658.4	B.2.4.5-3	15.40	22.60	0.36	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	658.4	B.2.4.5-3	15.40	22.90	0.31	0.00	0.00
N-3.60	B1918	1408	VC0.5x1	659.0	B.2.4.5-3	1.50	23.20	0.31	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	50.0	B.2.4.5-3	3.30	5.10	0.01	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	50.6	B.2.4.5-3	8.80	8.80	0.01	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	50.6	B.2.4.5-3	8.90	8.90	0.01	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	76.0	B.2.4.5-3	8.90	8.90	0.01	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	101.3	B.2.4.5-3	8.90	8.90	0.01	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	101.3	B.2.4.5-3	9.00	9.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	114.5	B.2.4.5-3	9.00	9.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	114.5	B.2.4.5-3	9.10	9.10	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	151.9	B.2.4.5-3	9.10	9.10	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	151.9	B.2.4.5-3	9.20	9.20	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	177.3	B.2.4.5-3	9.20	9.20	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	202.6	B.2.4.5-3	9.20	9.20	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	202.6	B.2.4.5-3	9.30	9.30	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	218.2	B.2.4.5-3	9.30	9.30	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	218.2	B.2.4.5-3	9.30	9.30	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	234.5	B.2.4.5-3	9.30	9.30	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	234.5	B.2.4.5-3	9.40	9.40	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	252.6	B.2.4.5-3	9.40	9.40	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	252.6	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	253.2	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	253.2	B.2.4.5-3	9.50	9.50	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	278.5	B.2.4.5-3	9.50	9.50	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	303.9	B.2.4.5-3	9.70	9.50	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	303.9	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	304.9	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	304.9	B.2.4.5-3	10.00	9.60	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	354.5	B.2.4.5-3	11.40	9.60	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	354.5	B.2.4.5-3	11.80	9.80	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	404.4	B.2.4.5-3	12.50	9.80	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	404.4	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	405.1	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	405.1	B.2.4.5-3	12.60	9.80	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	430.5	B.2.4.5-3	12.90	9.80	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	455.8	B.2.4.5-3	13.20	9.80	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	455.8	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	456.0	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	456.0	B.2.4.5-3	13.30	9.90	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	474.5	B.2.4.5-3	13.30	9.90	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	474.5	B.2.4.5-3	13.60	10.00	0.03	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	506.2	B.2.4.5-3	11.90	10.00	0.03	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	506.2	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	506.4	B.2.4.5-3	7.00	7.00	0.00	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	506.4	B.2.4.5-3	11.70	10.10	0.05	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	531.8	B.2.4.5-3	10.10	10.10	0.04	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	557.1	B.2.4.5-3	10.10	10.10	0.04	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	557.1	B.2.4.5-3	10.20	10.20	0.06	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	594.5	B.2.4.5-3	10.20	10.20	0.06	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	594.5	B.2.4.5-3	10.40	10.40	0.11	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	607.7	B.2.4.5-3	10.40	10.40	0.11	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	607.7	B.2.4.5-3	10.50	11.50	0.32	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	633.0	B.2.4.5-3	10.50	15.60	0.32	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	658.4	B.2.4.5-3	10.50	22.90	0.32	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1933	1481	VC0.5x1	658.4	B.2.4.5-3	10.70	24.30	0.30	0.00	0.00
N-3.60	B1933	1481	VC0.5x1	659.0	B.2.4.5-3	3.40	24.50	0.30	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	50.0	B.2.4.5-8	2.70	23.90	0.36	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	62.5	B.2.4.5-8	9.80	19.50	0.36	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	62.5	B.2.4.5-8	11.00	19.40	0.29	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	98.0	B.2.4.5-8	11.00	13.90	0.29	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	98.0	B.2.4.5-8	10.90	12.40	0.23	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	147.0	B.2.4.5-8	11.10	10.90	0.23	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	147.0	B.2.4.5-8	11.70	10.80	0.17	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	196.0	B.2.4.5-3	15.60	10.80	0.17	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	196.0	B.2.4.5-3	16.00	10.70	0.12	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	245.0	B.2.4.5-3	21.10	10.70	0.12	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	245.0	B.2.4.5-3	21.00	10.50	0.09	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	294.0	B.2.4.5-3	17.50	10.50	0.08	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	294.0	B.2.4.5-3	17.10	10.40	0.13	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	343.0	B.2.4.5-3	15.40	10.40	0.13	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	343.0	B.2.4.5-3	14.90	10.20	0.18	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	392.0	B.2.4.5-3	10.20	10.20	0.18	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	392.0	B.2.4.5-3	10.10	10.10	0.24	0.00	0.00
N-3.60	B2589	1415	VC0.5x1	441.0	B.2.4.5-3	2.80	15.40	0.24	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	0.0	B.2.4.7-8	2.00	1.20	0.09	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	49.0	B.2.4.5-8	8.00	5.20	0.09	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	49.0	B.2.4.5-8	9.00	5.70	0.07	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	98.0	B.2.4.5-3	14.90	5.70	0.07	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	98.0	B.2.4.5-3	15.40	6.10	0.04	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	147.0	B.2.4.2-2	15.40	6.10	0.04	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	147.0	B.2.4.4-4	15.40	6.50	0.01	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	196.0	B.2.4.5-3	16.90	6.50	0.01	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	196.0	B.2.4.5-3	17.30	6.80	0.00	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	245.0	B.2.4.5-3	17.60	6.80	0.00	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	245.0	B.2.4.5-3	18.00	6.90	0.07	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	294.0	B.2.4.5-3	15.40	6.90	0.07	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	294.0	B.2.4.5-3	15.40	7.10	0.11	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	343.0	B.2.4.5-3	9.10	7.10	0.11	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	343.0	B.2.4.5-3	8.40	7.10	0.17	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	392.0	B.2.4.5-3	7.10	8.00	0.16	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	392.0	B.2.4.5-3	7.10	9.00	0.26	0.00	0.00
N-3.60	B2609	1400	VC0.5x1	441.0	B.2.4.5-3	1.50	18.20	0.26	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	50.0	B.2.4.5-8	0.60	18.10	0.34	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	50.5	B.2.4.5-8	6.30	18.00	0.34	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	50.5	B.2.4.5-8	7.00	17.70	0.23	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	75.8	B.2.4.5-8	7.00	15.40	0.23	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	101.1	B.2.4.5-8	7.00	8.50	0.23	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	101.1	B.2.4.5-8	7.10	7.60	0.14	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	126.4	B.2.4.5-8	7.10	7.10	0.14	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	151.6	B.2.4.5-8	7.30	7.10	0.14	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	151.6	B.2.4.5-8	7.90	7.20	0.09	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	176.9	B.2.4.5-8	11.10	7.20	0.09	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	202.2	B.2.4.5-8	14.60	7.20	0.10	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	202.2	B.2.4.5-8	15.10	7.30	0.06	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	227.5	B.2.4.2-2	15.40	7.30	0.06	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	252.7	B.2.4.4-4	15.40	7.30	0.06	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	252.7	B.2.4.5-8	15.60	7.40	0.03	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	278.0	B.2.4.5-8	16.90	7.40	0.03	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	278.0	B.2.4.5-8	17.00	7.50	0.02	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	303.3	B.2.4.5-8	16.00	7.50	0.02	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	303.3	B.2.4.5-8	15.70	7.60	0.05	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B2630	1215	VC0.5x1	328.5	B.2.4.4-4	15.40	7.60	0.05	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	353.8	B.2.4.5-3	15.40	7.60	0.05	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	353.8	B.2.4.5-3	15.40	7.70	0.09	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	379.1	B.2.4.5-8	12.90	7.70	0.09	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	404.4	B.2.4.5-8	9.70	7.70	0.09	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	404.4	B.2.4.5-8	9.30	7.80	0.13	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	429.6	B.2.4.5-8	7.80	7.80	0.13	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	454.9	B.2.4.5-8	7.80	7.80	0.13	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	454.9	B.2.4.5-8	8.00	8.00	0.20	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	480.2	B.2.4.5-8	8.00	13.70	0.20	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	505.5	B.2.4.5-8	8.00	15.40	0.20	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	505.5	B.2.4.5-8	8.10	16.30	0.27	0.00	0.00
N-3.60	B2630	1215	VC0.5x1	506.0	B.2.4.5-8	2.30	16.40	0.27	0.00	0.00
N-3.60	B12	1543	VC0.5x1	50.0	B.2.4.5-3	1.90	23.00	0.35	0.00	0.00
N-3.60	B12	1543	VC0.5x1	50.6	B.2.4.5-3	8.60	22.70	0.35	0.00	0.00
N-3.60	B12	1543	VC0.5x1	50.6	B.2.4.5-3	8.70	21.60	0.36	0.00	0.00
N-3.60	B12	1543	VC0.5x1	76.0	B.2.4.5-3	8.70	15.40	0.36	0.00	0.00
N-3.60	B12	1543	VC0.5x1	101.3	B.2.4.5-3	8.70	8.70	0.36	0.00	0.00
N-3.60	B12	1543	VC0.5x1	101.3	B.2.4.5-3	8.90	8.90	0.25	0.00	0.00
N-3.60	B12	1543	VC0.5x1	114.5	B.2.4.5-3	11.50	8.90	0.26	0.00	0.00
N-3.60	B12	1543	VC0.5x1	114.5	B.2.4.5-3	13.60	8.90	0.15	0.00	0.00
N-3.60	B12	1543	VC0.5x1	151.9	B.2.4.5-8	15.80	8.90	0.15	0.00	0.00
N-3.60	B12	1543	VC0.5x1	151.9	B.2.4.5-8	16.10	8.90	0.12	0.00	0.00
N-3.60	B12	1543	VC0.5x1	177.3	B.2.4.5-8	19.80	8.90	0.12	0.00	0.00
N-3.60	B12	1543	VC0.5x1	202.6	B.2.4.5-8	23.50	8.90	0.12	0.00	0.00
N-3.60	B12	1543	VC0.5x1	202.6	B.2.4.5-8	23.90	9.00	0.09	0.00	0.00
N-3.60	B12	1543	VC0.5x1	234.5	B.2.4.5-8	27.30	9.00	0.09	0.00	0.00
N-3.60	B12	1543	VC0.5x1	234.5	B.2.4.5-8	27.50	9.00	0.04	0.00	0.00
N-3.60	B12	1543	VC0.5x1	253.2	B.2.4.5-8	27.30	9.00	0.04	0.00	0.00
N-3.60	B12	1543	VC0.5x1	253.2	B.2.4.5-8	27.20	9.00	0.04	0.00	0.00
N-3.60	B12	1543	VC0.5x1	278.5	B.2.4.5-8	26.20	9.00	0.04	0.00	0.00
N-3.60	B12	1543	VC0.5x1	303.9	B.2.4.5-8	25.30	9.00	0.04	0.00	0.00
N-3.60	B12	1543	VC0.5x1	303.9	B.2.4.5-8	25.10	8.90	0.07	0.00	0.00
N-3.60	B12	1543	VC0.5x1	329.2	B.2.4.5-8	23.20	8.90	0.06	0.00	0.00
N-3.60	B12	1543	VC0.5x1	354.5	B.2.4.5-8	21.40	8.90	0.06	0.00	0.00
N-3.60	B12	1543	VC0.5x1	354.5	B.2.4.5-8	20.10	8.70	0.20	0.00	0.00
N-3.60	B12	1543	VC0.5x1	379.8	B.2.4.5-3	15.40	8.70	0.20	0.00	0.00
N-3.60	B12	1543	VC0.5x1	405.1	B.2.4.5-8	13.00	8.70	0.20	0.00	0.00
N-3.60	B12	1543	VC0.5x1	405.1	B.2.4.5-8	12.10	8.40	0.23	0.00	0.00
N-3.60	B12	1543	VC0.5x1	449.0	B.2.4.7-4	2.90	4.80	0.23	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	45.3	B.2.4.7-8	1.70	15.40	0.21	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	94.4	B.2.4.5-8	5.70	6.20	0.22	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	94.4	B.2.4.5-8	5.80	5.80	0.17	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	143.5	B.2.4.5-8	6.00	5.80	0.17	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	143.5	B.2.4.5-8	6.40	6.00	0.12	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	192.6	B.2.4.5-8	8.00	6.00	0.12	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	192.6	B.2.4.5-8	8.00	6.10	0.14	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	241.8	B.2.4.5-8	6.10	6.10	0.14	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	241.8	B.2.4.5-8	6.20	6.20	0.17	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	277.5	B.2.4.5-8	6.20	7.00	0.17	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	277.5	B.2.4.5-8	5.40	6.50	0.19	0.00	0.00
N-3.60	B1228	1534	VC0.5x1	290.0	B.2.4.7-8	1.40	8.40	0.19	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	0.0	B.2.4.5-8	3.50	2.50	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	49.1	B.2.4.5-8	15.10	15.10	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	49.1	B.2.4.5-8	15.40	15.40	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	98.2	B.2.4.5-8	15.40	15.40	0.09	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	98.2	B.2.4.5-8	15.40	15.40	0.09	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1238	1535	VC0.5x1	147.4	B.2.4.5-8	15.40	15.40	0.09	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	147.4	B.2.4.5-8	15.40	15.40	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	196.5	B.2.4.5-8	15.40	15.40	0.09	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	196.5	B.2.4.5-8	15.40	15.40	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	245.6	B.2.4.5-8	15.40	15.40	0.08	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	245.6	B.2.4.5-8	15.40	15.40	0.07	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	277.5	B.2.4.5-8	15.40	15.40	0.07	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	277.5	B.2.4.5-8	15.40	15.40	0.11	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	294.7	B.2.4.5-8	15.40	15.40	0.10	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	294.7	B.2.4.5-8	15.40	15.40	0.15	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	343.8	B.2.4.5-8	15.40	15.40	0.15	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	343.8	B.2.4.5-8	15.40	15.40	0.19	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	392.9	B.2.4.5-8	15.40	15.40	0.19	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	392.9	B.2.4.5-8	15.40	15.40	0.30	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	442.1	B.2.4.5-8	15.40	25.30	0.29	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	442.1	B.2.4.5-8	15.40	26.80	0.36	0.00	0.00
N-3.60	B1238	1535	VC0.5x1	491.2	B.2.4.7-8	5.30	46.60	0.35	0.00	0.00
N-3.60	B335	1484	VC0.5x1	50.0	B.2.4.5-8	2.00	38.40	0.35	0.00	0.00
N-3.60	B335	1484	VC0.5x1	50.5	B.2.4.5-8	13.50	38.20	0.35	0.00	0.00
N-3.60	B335	1484	VC0.5x1	50.5	B.2.4.5-8	14.60	37.50	0.23	0.00	0.00
N-3.60	B335	1484	VC0.5x1	75.8	B.2.4.5-8	14.60	28.40	0.23	0.00	0.00
N-3.60	B335	1484	VC0.5x1	101.1	B.2.4.5-8	14.60	19.60	0.24	0.00	0.00
N-3.60	B335	1484	VC0.5x1	101.1	B.2.4.5-8	14.60	18.60	0.29	0.00	0.00
N-3.60	B335	1484	VC0.5x1	126.4	B.2.4.5-8	14.60	15.40	0.29	0.00	0.00
N-3.60	B335	1484	VC0.5x1	151.6	B.2.4.5-8	14.60	14.60	0.29	0.00	0.00
N-3.60	B335	1484	VC0.5x1	151.6	B.2.4.5-8	14.60	14.60	0.23	0.00	0.00
N-3.60	B335	1484	VC0.5x1	176.9	B.2.4.5-8	14.60	14.60	0.23	0.00	0.00
N-3.60	B335	1484	VC0.5x1	202.2	B.2.4.5-8	14.60	14.60	0.24	0.00	0.00
N-3.60	B335	1484	VC0.5x1	202.2	B.2.4.5-8	14.50	14.50	0.19	0.00	0.00
N-3.60	B335	1484	VC0.5x1	227.5	B.2.4.5-8	14.50	14.50	0.19	0.00	0.00
N-3.60	B335	1484	VC0.5x1	252.7	B.2.4.5-3	15.40	14.50	0.19	0.00	0.00
N-3.60	B335	1484	VC0.5x1	252.7	B.2.4.5-3	15.40	14.50	0.15	0.00	0.00
N-3.60	B335	1484	VC0.5x1	278.0	B.2.4.5-8	16.10	14.50	0.16	0.00	0.00
N-3.60	B335	1484	VC0.5x1	278.0	B.2.4.5-8	15.80	14.60	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	303.3	B.2.4.5-8	15.70	14.60	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	303.3	B.2.4.5-8	15.60	14.60	0.10	0.00	0.00
N-3.60	B335	1484	VC0.5x1	333.6	B.2.4.2-2	15.40	14.60	0.10	0.00	0.00
N-3.60	B335	1484	VC0.5x1	333.6	B.2.4.5-3	15.40	14.60	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	353.8	B.2.4.5-3	15.40	14.60	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	353.8	B.2.4.5-3	15.40	14.60	0.10	0.00	0.00
N-3.60	B335	1484	VC0.5x1	370.7	B.2.4.5-3	15.40	14.60	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	370.7	B.2.4.5-3	15.40	14.60	0.11	0.00	0.00
N-3.60	B335	1484	VC0.5x1	404.4	B.2.4.5-3	15.40	14.60	0.10	0.00	0.00
N-3.60	B335	1484	VC0.5x1	404.4	B.2.4.5-3	15.40	14.70	0.11	0.00	0.00
N-3.60	B335	1484	VC0.5x1	444.8	B.2.4.5-8	15.40	14.70	0.11	0.00	0.00
N-3.60	B335	1484	VC0.5x1	444.8	B.2.4.5-8	15.40	14.70	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	454.9	B.2.4.5-8	15.40	14.70	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	454.9	B.2.4.5-8	15.40	14.80	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	463.3	B.2.4.5-8	15.40	14.80	0.09	0.00	0.00
N-3.60	B335	1484	VC0.5x1	463.3	B.2.4.5-8	15.40	14.80	0.11	0.00	0.00
N-3.60	B335	1484	VC0.5x1	505.5	B.2.4.5-8	15.40	14.80	0.11	0.00	0.00
N-3.60	B335	1484	VC0.5x1	505.5	B.2.4.5-8	15.40	14.90	0.12	0.00	0.00
N-3.60	B335	1484	VC0.5x1	506.0	B.2.4.5-8	15.40	9.50	0.12	0.00	0.00
N-3.60	B343	2270	VC0.5x1	50.0	B.2.4.5-8	1.90	38.60	0.35	0.00	0.00
N-3.60	B343	2270	VC0.5x1	50.5	B.2.4.5-8	13.60	38.30	0.35	0.00	0.00
N-3.60	B343	2270	VC0.5x1	50.5	B.2.4.5-8	14.50	37.60	0.24	0.00	0.00
N-3.60	B343	2270	VC0.5x1	75.8	B.2.4.5-8	14.50	28.30	0.24	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B343	2270	VC0.5x1	101.1	B.2.4.5-8	14.50	19.60	0.24	0.00	0.00
N-3.60	B343	2270	VC0.5x1	101.1	B.2.4.5-8	14.50	18.50	0.29	0.00	0.00
N-3.60	B343	2270	VC0.5x1	126.4	B.2.4.5-8	14.50	15.40	0.29	0.00	0.00
N-3.60	B343	2270	VC0.5x1	151.6	B.2.4.5-8	14.50	14.50	0.29	0.00	0.00
N-3.60	B343	2270	VC0.5x1	151.6	B.2.4.5-8	14.40	14.40	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	158.9	B.2.4.5-8	14.40	14.40	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	158.9	B.2.4.5-8	14.40	14.40	0.22	0.00	0.00
N-3.60	B343	2270	VC0.5x1	202.2	B.2.4.5-8	14.40	14.40	0.22	0.00	0.00
N-3.60	B343	2270	VC0.5x1	202.2	B.2.4.5-8	14.40	14.40	0.19	0.00	0.00
N-3.60	B343	2270	VC0.5x1	227.5	B.2.4.5-8	14.40	14.40	0.19	0.00	0.00
N-3.60	B343	2270	VC0.5x1	252.7	B.2.4.5-3	15.40	14.40	0.19	0.00	0.00
N-3.60	B343	2270	VC0.5x1	252.7	B.2.4.5-3	15.40	14.30	0.15	0.00	0.00
N-3.60	B343	2270	VC0.5x1	278.0	B.2.4.5-8	16.00	14.30	0.15	0.00	0.00
N-3.60	B343	2270	VC0.5x1	278.0	B.2.4.5-8	15.70	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	303.3	B.2.4.5-8	15.60	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	303.3	B.2.4.5-8	15.50	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	317.7	B.2.4.5-8	15.50	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	317.7	B.2.4.2-2	15.40	14.40	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	353.8	B.2.4.5-3	15.40	14.40	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	353.8	B.2.4.5-3	15.40	14.40	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	379.1	B.2.4.5-3	15.40	14.40	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	404.4	B.2.4.5-3	15.40	14.40	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	404.4	B.2.4.5-3	15.40	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	417.0	B.2.4.5-3	15.40	14.40	0.09	0.00	0.00
N-3.60	B343	2270	VC0.5x1	417.0	B.2.4.5-3	15.40	14.40	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	454.9	B.2.4.5-8	15.40	14.40	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	454.9	B.2.4.5-8	15.40	14.50	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	476.6	B.2.4.5-8	15.40	14.50	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	476.6	B.2.4.5-8	15.40	14.50	0.11	0.00	0.00
N-3.60	B343	2270	VC0.5x1	505.5	B.2.4.5-8	15.10	14.50	0.10	0.00	0.00
N-3.60	B343	2270	VC0.5x1	505.5	B.2.4.5-8	15.00	14.60	0.12	0.00	0.00
N-3.60	B343	2270	VC0.5x1	506.0	B.2.4.5-8	15.00	9.00	0.12	0.00	0.00
N-3.60	B372	879	VC0.5x1	0.0	B.2.4.5-8	3.20	5.20	0.02	0.00	0.00
N-3.60	B372	879	VC0.5x1	25.3	B.2.4.5-8	3.70	5.20	0.02	0.00	0.00
N-3.60	B372	879	VC0.5x1	50.5	B.2.4.5-8	3.70	5.20	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	50.5	B.2.4.5-8	3.60	5.00	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	75.8	B.2.4.5-8	3.60	4.90	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	101.1	B.2.4.5-8	3.60	4.80	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	101.1	B.2.4.5-8	3.40	4.60	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	126.4	B.2.4.5-8	3.40	4.40	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	151.6	B.2.4.5-8	3.40	4.30	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	151.6	B.2.4.5-8	3.30	4.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	176.9	B.2.4.5-8	3.30	3.90	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	202.2	B.2.4.5-8	3.30	3.70	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	202.2	B.2.4.5-8	3.10	3.60	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	227.5	B.2.4.5-8	3.10	3.40	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	252.7	B.2.4.5-8	3.10	3.30	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	252.7	B.2.4.5-8	3.10	3.30	0.04	0.00	0.00
N-3.60	B372	879	VC0.5x1	278.0	B.2.4.5-8	3.10	3.10	0.04	0.00	0.00
N-3.60	B372	879	VC0.5x1	278.0	B.2.4.5-8	3.10	3.10	0.04	0.00	0.00
N-3.60	B372	879	VC0.5x1	303.3	B.2.4.5-8	3.10	3.20	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	303.3	B.2.4.5-8	3.20	3.20	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	328.5	B.2.4.5-8	3.20	3.20	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	353.8	B.2.4.5-8	3.20	3.20	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	353.8	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	379.1	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	404.4	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B372	879	VC0.5x1	404.4	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	429.6	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	454.9	B.2.4.5-8	3.10	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	454.9	B.2.4.5-8	3.00	3.00	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	480.2	B.2.4.5-8	3.00	3.00	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	505.5	B.2.4.5-8	3.00	3.10	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	505.5	B.2.4.5-8	3.00	3.00	0.03	0.00	0.00
N-3.60	B372	879	VC0.5x1	530.7	B.2.4.5-8	3.00	3.00	0.02	0.00	0.00
N-3.60	B372	879	VC0.5x1	556.0	B.2.4.5-8	2.90	2.80	0.03	0.00	0.00
N-3.60	B377	874	VC0.5x1	0.0	B.2.4.5-8	1.50	2.20	0.04	0.00	0.00
N-3.60	B377	874	VC0.5x1	49.7	B.2.4.5-8	2.50	1.70	0.04	0.00	0.00
N-3.60	B377	874	VC0.5x1	49.7	B.2.4.5-8	1.70	1.60	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	99.3	B.2.4.5-8	2.80	1.60	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	99.3	B.2.4.5-8	2.10	1.70	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	149.0	B.2.4.5-8	2.70	1.70	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	149.0	B.2.4.5-8	2.30	1.90	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	198.7	B.2.4.5-8	2.60	1.90	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	198.7	B.2.4.5-8	2.30	1.80	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	223.5	B.2.4.5-8	2.40	1.80	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	223.5	B.2.4.5-8	2.20	1.70	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	248.3	B.2.4.5-8	2.00	1.70	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	248.3	B.2.4.5-8	2.10	1.70	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	298.0	B.2.4.5-8	1.80	1.80	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	298.0	B.2.4.5-8	2.20	1.90	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	347.7	B.2.4.5-8	1.90	2.20	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	347.7	B.2.4.5-8	2.30	2.20	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	397.3	B.2.4.5-8	2.10	2.40	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	397.3	B.2.4.5-8	2.40	2.30	0.00	0.00	0.00
N-3.60	B377	874	VC0.5x1	447.0	B.2.4.5-8	2.40	2.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	0.0	B.2.4.5-3	2.20	1.70	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	25.8	B.2.4.5-3	2.20	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	51.5	B.2.4.5-3	2.20	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	51.5	B.2.4.5-3	1.80	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	77.3	B.2.4.5-3	1.90	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	103.0	B.2.4.5-3	2.10	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	103.0	B.2.4.5-3	1.60	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	128.8	B.2.4.5-3	1.80	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	154.5	B.2.4.5-3	2.10	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	154.5	B.2.4.5-3	1.50	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	180.3	B.2.4.5-3	1.80	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	206.0	B.2.4.5-3	2.10	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	206.0	B.2.4.5-3	1.50	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	231.8	B.2.4.5-3	1.90	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	257.5	B.2.4.5-3	2.20	1.20	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	257.5	B.2.4.5-3	1.70	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	283.3	B.2.4.5-3	2.10	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	309.0	B.2.4.5-3	2.60	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	309.0	B.2.4.5-8	2.80	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	334.7	B.2.4.5-3	2.40	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	360.5	B.2.4.5-3	2.10	1.30	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	360.5	B.2.4.5-8	2.60	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	386.3	B.2.4.5-3	2.20	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	412.0	B.2.4.5-3	1.90	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	412.0	B.2.4.5-8	2.70	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	437.8	B.2.4.5-8	2.20	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	463.5	B.2.4.5-8	1.80	1.40	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	463.5	B.2.4.5-8	2.80	1.50	0.00	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B378	776	VC0.5x1	489.2	B.2.4.5-8	2.20	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	515.0	B.2.4.5-8	1.60	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	515.0	B.2.4.5-8	2.90	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	540.8	B.2.4.5-8	2.10	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	566.5	B.2.4.5-8	1.50	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	566.5	B.2.4.5-3	2.80	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	592.3	B.2.4.5-8	1.60	1.50	0.00	0.00	0.00
N-3.60	B378	776	VC0.5x1	618.0	B.2.4.5-8	1.20	2.20	0.00	0.00	0.00
N-3.60	B379	772	VC0.5x1	0.0	B.2.4.5-8	8.10	6.90	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	49.0	B.2.4.5-8	8.10	6.60	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	49.0	B.2.4.5-8	7.30	6.60	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	98.0	B.2.4.5-8	7.40	6.60	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	98.0	B.2.4.5-8	6.70	6.60	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	147.0	B.2.4.5-8	6.80	6.60	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	147.0	B.2.4.5-8	6.70	6.70	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	196.0	B.2.4.5-8	6.70	6.70	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	196.0	B.2.4.5-8	6.70	6.80	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	245.0	B.2.4.5-8	6.70	6.70	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	245.0	B.2.4.5-8	6.90	6.90	0.08	0.00	0.00
N-3.60	B379	772	VC0.5x1	294.0	B.2.4.5-8	6.90	7.50	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	294.0	B.2.4.5-8	7.00	7.70	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	343.0	B.2.4.5-8	7.00	8.10	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	343.0	B.2.4.5-8	7.20	8.50	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	392.0	B.2.4.5-8	7.20	8.90	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	392.0	B.2.4.5-8	7.40	9.60	0.07	0.00	0.00
N-3.60	B379	772	VC0.5x1	441.0	B.2.4.5-8	7.40	9.90	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	441.0	B.2.4.5-8	7.60	10.60	0.06	0.00	0.00
N-3.60	B379	772	VC0.5x1	490.0	B.2.4.5-8	6.60	10.70	0.06	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	50.0	B.2.4.5-8	1.90	16.70	0.30	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	75.0	B.2.4.5-8	9.10	12.60	0.30	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	75.0	B.2.4.5-8	10.30	12.40	0.20	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	98.2	B.2.4.5-8	10.30	10.30	0.21	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	98.2	B.2.4.5-8	11.10	10.30	0.17	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	147.4	B.2.4.5-8	16.90	10.30	0.17	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	147.4	B.2.4.5-8	17.40	10.30	0.08	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	196.5	B.2.4.5-8	22.60	10.30	0.08	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	196.5	B.2.4.5-8	22.90	10.30	0.04	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	245.6	B.2.4.5-8	25.50	10.30	0.04	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	245.6	B.2.4.5-8	25.70	10.20	0.04	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	277.5	B.2.4.5-8	26.50	10.20	0.04	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	277.5	B.2.4.5-8	25.60	10.20	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	294.7	B.2.4.5-8	25.20	10.20	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	294.7	B.2.4.5-8	24.90	10.10	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	343.8	B.2.4.5-8	22.60	10.10	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	343.8	B.2.4.5-8	22.30	10.10	0.01	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	392.9	B.2.4.5-8	19.50	10.10	0.01	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	392.9	B.2.4.5-8	19.30	10.10	0.01	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	442.1	B.2.4.5-8	16.20	10.10	0.01	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	442.1	B.2.4.5-8	15.90	10.10	0.02	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	491.2	B.2.4.2-2	15.40	10.10	0.02	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	491.2	B.2.4.2-2	15.40	10.00	0.03	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	540.3	B.2.4.5-8	15.40	10.00	0.03	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	540.3	B.2.4.5-8	15.30	10.10	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	555.0	B.2.4.5-8	14.90	10.10	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	555.0	B.2.4.5-3	15.40	9.90	0.01	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	589.4	B.2.4.5-8	15.20	9.90	0.00	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	589.4	B.2.4.5-8	14.90	9.90	0.03	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1507	1414	VC0.5x1	638.5	B.2.4.5-8	10.60	9.90	0.03	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	638.5	B.2.4.5-8	10.30	10.00	0.07	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	687.6	B.2.4.5-8	10.00	10.00	0.07	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	687.6	B.2.4.5-8	10.10	10.10	0.14	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	736.8	B.2.4.5-8	10.10	15.10	0.14	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	736.8	B.2.4.5-3	10.20	15.40	0.22	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	772.5	B.2.4.5-3	10.20	19.80	0.22	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	772.5	B.2.4.5-3	9.90	20.40	0.32	0.00	0.00
N-3.60	B1507	1414	VC0.5x1	785.0	B.2.4.5-3	2.60	24.10	0.32	0.00	0.00
N-3.60	B178	1462	VC0.5x1	50.0	B.2.4.5-3	7.00	4.70	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	51.7	B.2.4.5-3	7.00	3.40	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	51.7	B.2.4.5-3	7.20	4.40	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	87.5	B.2.4.5-3	7.50	4.40	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	87.5	B.2.4.5-3	7.20	4.20	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	103.3	B.2.4.5-3	7.10	4.20	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	103.3	B.2.4.5-3	6.30	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	129.2	B.2.4.5-3	6.40	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	155.0	B.2.4.5-3	6.60	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	155.0	B.2.4.5-3	5.80	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	180.8	B.2.4.5-3	6.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	206.7	B.2.4.5-3	6.40	4.00	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	206.7	B.2.4.5-3	5.80	3.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	207.5	B.2.4.5-3	5.80	3.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	207.5	B.2.4.5-3	5.40	3.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	232.9	B.2.4.5-3	5.50	3.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	258.3	B.2.4.5-3	5.60	3.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	258.3	B.2.4.5-3	4.90	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	284.2	B.2.4.5-3	5.10	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	310.0	B.2.4.5-3	5.30	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	310.0	B.2.4.5-3	4.70	4.00	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	327.5	B.2.4.5-3	5.00	4.00	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	327.5	B.2.4.5-3	4.60	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	361.7	B.2.4.5-3	4.40	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	361.7	B.2.4.5-3	4.00	4.00	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	387.5	B.2.4.5-3	4.00	4.00	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	413.3	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	413.3	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	447.5	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	447.5	B.2.4.5-3	4.00	4.00	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	465.0	B.2.4.5-3	4.00	4.00	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	465.0	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	490.8	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	516.7	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	516.7	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	542.1	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	567.5	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	567.5	B.2.4.5-3	4.20	4.20	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	568.3	B.2.4.5-3	4.20	4.20	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	568.3	B.2.4.5-3	4.10	4.40	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	594.2	B.2.4.5-3	4.10	4.90	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	620.0	B.2.4.5-3	4.10	5.40	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	620.0	B.2.4.5-3	4.30	5.50	0.05	0.00	0.00
N-3.60	B178	1462	VC0.5x1	645.8	B.2.4.5-3	4.30	5.90	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	671.7	B.2.4.5-3	4.30	6.30	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	671.7	B.2.4.5-3	4.30	6.20	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	687.5	B.2.4.5-3	4.30	6.20	0.03	0.00	0.00
N-3.60	B178	1462	VC0.5x1	687.5	B.2.4.5-3	4.40	6.80	0.04	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B178	1462	VC0.5x1	723.3	B.2.4.5-3	4.40	7.20	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	723.3	B.2.4.5-3	4.00	6.70	0.04	0.00	0.00
N-3.60	B178	1462	VC0.5x1	725.0	B.2.4.5-3	2.80	6.70	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	50.0	B.2.4.5-3	2.90	5.20	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	51.7	B.2.4.5-3	4.00	5.20	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	51.7	B.2.4.5-3	4.30	5.70	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	87.5	B.2.4.5-3	4.30	5.30	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	87.5	B.2.4.5-3	4.20	4.80	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	103.3	B.2.4.5-3	4.20	4.80	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	103.3	B.2.4.5-3	4.20	5.00	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	129.2	B.2.4.5-3	4.20	4.60	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	155.0	B.2.4.5-3	4.20	4.20	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	155.0	B.2.4.5-3	4.00	4.30	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	180.8	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	206.7	B.2.4.5-3	4.00	4.00	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	206.7	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	207.5	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	207.5	B.2.4.5-3	4.10	4.10	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	232.9	B.2.4.5-3	4.10	4.10	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	258.3	B.2.4.5-3	4.10	4.10	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	258.3	B.2.4.5-3	3.90	3.90	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	284.2	B.2.4.5-3	3.90	3.90	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	310.0	B.2.4.5-3	4.10	3.90	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	310.0	B.2.4.5-3	4.00	3.90	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	327.5	B.2.4.5-3	4.30	3.90	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	327.5	B.2.4.5-3	4.40	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	361.7	B.2.4.5-3	4.20	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	361.7	B.2.4.5-3	4.40	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	387.5	B.2.4.5-3	4.50	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	413.3	B.2.4.5-3	4.60	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	413.3	B.2.4.5-3	4.70	3.80	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	447.5	B.2.4.5-3	5.10	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	447.5	B.2.4.5-3	5.30	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	465.0	B.2.4.5-3	5.00	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	465.0	B.2.4.5-3	5.50	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	490.8	B.2.4.5-3	5.30	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	516.7	B.2.4.5-3	5.10	3.80	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	516.7	B.2.4.5-3	5.60	3.70	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	542.1	B.2.4.5-3	5.50	3.70	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	567.5	B.2.4.5-3	5.50	3.70	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	567.5	B.2.4.5-3	5.80	3.70	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	568.3	B.2.4.5-3	5.80	3.70	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	568.3	B.2.4.5-3	6.30	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	594.2	B.2.4.5-3	5.90	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	620.0	B.2.4.5-3	5.50	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	620.0	B.2.4.5-3	6.30	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	645.8	B.2.4.5-3	6.00	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	671.7	B.2.4.5-3	5.70	3.80	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	671.7	B.2.4.5-3	6.60	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	687.5	B.2.4.5-3	6.70	3.90	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	687.5	B.2.4.5-3	7.00	4.20	0.04	0.00	0.00
N-3.60	B230	1465	VC0.5x1	723.3	B.2.4.5-3	6.60	4.20	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	723.3	B.2.4.5-3	6.20	3.10	0.03	0.00	0.00
N-3.60	B230	1465	VC0.5x1	725.0	B.2.4.5-3	6.20	4.20	0.03	0.00	0.00
N-3.60	B232	563	VC0.5x1	50.0	B.2.4.5-3	3.60	22.10	0.25	0.00	0.00
N-3.60	B232	563	VC0.5x1	50.6	B.2.4.5-3	10.00	21.90	0.25	0.00	0.00
N-3.60	B232	563	VC0.5x1	50.6	B.2.4.5-3	11.40	22.60	0.18	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B232	563	VC0.5x1	76.0	B.2.4.5-3	11.40	17.70	0.18	0.00	0.00
N-3.60	B232	563	VC0.5x1	101.3	B.2.4.5-3	11.40	15.40	0.18	0.00	0.00
N-3.60	B232	563	VC0.5x1	101.3	B.2.4.5-3	11.10	15.40	0.07	0.00	0.00
N-3.60	B232	563	VC0.5x1	114.5	B.2.4.5-3	11.10	14.30	0.07	0.00	0.00
N-3.60	B232	563	VC0.5x1	114.5	B.2.4.5-3	10.80	13.20	0.06	0.00	0.00
N-3.60	B232	563	VC0.5x1	151.9	B.2.4.5-3	10.80	10.80	0.06	0.00	0.00
N-3.60	B232	563	VC0.5x1	151.9	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	177.3	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	202.6	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	202.6	B.2.4.5-3	10.20	10.20	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	234.5	B.2.4.5-3	10.60	10.20	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	234.5	B.2.4.5-3	10.40	9.90	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	253.2	B.2.4.5-3	10.80	9.90	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	253.2	B.2.4.5-3	10.70	9.70	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	278.5	B.2.4.5-3	11.40	9.70	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	303.9	B.2.4.5-3	12.30	9.70	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	303.9	B.2.4.5-3	12.10	9.40	0.06	0.00	0.00
N-3.60	B232	563	VC0.5x1	329.2	B.2.4.5-3	12.60	9.40	0.06	0.00	0.00
N-3.60	B232	563	VC0.5x1	354.5	B.2.4.5-3	13.20	9.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	354.5	B.2.4.5-3	12.70	9.00	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	379.8	B.2.4.5-3	12.50	9.00	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	405.1	B.2.4.5-3	12.40	9.00	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	405.1	B.2.4.5-3	12.10	8.70	0.07	0.00	0.00
N-3.60	B232	563	VC0.5x1	449.0	B.2.4.7-4	11.60	14.50	0.07	0.00	0.00
N-3.60	B232	563	VC0.5x1	449.0	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	455.8	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	455.8	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	474.5	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	474.5	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	506.4	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	506.4	B.2.4.5-3	10.40	10.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	531.8	B.2.4.5-3	10.40	10.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	557.1	B.2.4.5-3	10.40	10.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	557.1	B.2.4.5-3	10.40	10.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	594.5	B.2.4.5-3	10.40	10.40	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	594.5	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	607.7	B.2.4.5-3	10.50	10.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	607.7	B.2.4.5-3	10.80	10.80	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	633.0	B.2.4.5-3	10.80	10.80	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	658.4	B.2.4.5-3	10.80	10.80	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	658.4	B.2.4.5-3	9.50	9.50	0.04	0.00	0.00
N-3.60	B232	563	VC0.5x1	659.0	B.2.4.5-3	3.10	7.40	0.04	0.00	0.00
N-3.60	B235	401	VC0.5x1	0.0	B.2.4.5-3	7.60	4.80	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	26.2	B.2.4.5-3	7.50	4.10	0.11	0.00	0.00
N-3.60	B235	401	VC0.5x1	52.3	B.2.4.5-3	7.40	4.10	0.11	0.00	0.00
N-3.60	B235	401	VC0.5x1	52.3	B.2.4.5-3	5.30	4.20	0.11	0.00	0.00
N-3.60	B235	401	VC0.5x1	97.0	B.2.4.5-8	5.20	4.20	0.11	0.00	0.00
N-3.60	B235	401	VC0.5x1	97.0	B.2.4.5-8	4.30	4.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	104.7	B.2.4.5-3	4.20	4.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	104.7	B.2.4.5-3	4.20	4.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	130.8	B.2.4.5-3	4.20	4.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	157.0	B.2.4.5-3	4.20	4.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	157.0	B.2.4.5-3	4.40	5.00	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	183.2	B.2.4.5-3	4.40	5.20	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	209.3	B.2.4.5-3	4.40	5.40	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	209.3	B.2.4.5-3	4.40	6.80	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	217.0	B.2.4.5-3	4.40	6.80	0.12	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B235	401	VC0.5x1	217.0	B.2.4.5-3	4.50	8.40	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	261.7	B.2.4.5-3	4.50	9.10	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	261.7	B.2.4.5-3	4.10	10.50	0.12	0.00	0.00
N-3.60	B235	401	VC0.5x1	264.0	B.2.4.5-3	1.80	10.60	0.12	0.00	0.00
N-3.60	B237	591	VC0.5x1	50.0	B.2.4.7-4	3.00	3.20	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	50.3	B.2.4.5-3	3.30	3.30	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	50.3	B.2.4.5-3	3.80	3.80	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	75.5	B.2.4.5-3	3.80	3.80	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	100.7	B.2.4.5-3	3.80	3.80	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	100.7	B.2.4.5-3	3.70	3.70	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	106.5	B.2.4.5-3	3.70	3.70	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	106.5	B.2.4.5-3	3.70	3.70	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	151.0	B.2.4.5-3	3.70	3.70	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	151.0	B.2.4.5-3	3.90	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	176.2	B.2.4.5-3	4.10	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	201.3	B.2.4.5-3	4.30	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	201.3	B.2.4.5-3	4.50	3.50	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	226.5	B.2.4.5-3	5.00	3.50	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	226.5	B.2.4.5-3	5.30	3.50	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	251.7	B.2.4.5-3	5.00	3.50	0.06	0.00	0.00
N-3.60	B237	591	VC0.5x1	251.7	B.2.4.5-3	5.60	3.50	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	276.8	B.2.4.5-3	5.40	3.50	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	302.0	B.2.4.5-3	5.30	3.50	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	302.0	B.2.4.5-3	5.90	3.40	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	334.9	B.2.4.5-3	5.60	3.40	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	334.9	B.2.4.5-3	6.20	3.50	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	339.8	B.2.4.5-3	6.20	3.50	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	339.8	B.2.4.5-3	6.60	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	346.5	B.2.4.5-3	6.60	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	346.5	B.2.4.5-3	6.60	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	352.3	B.2.4.5-3	6.60	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	352.3	B.2.4.5-3	6.80	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	362.4	B.2.4.5-3	6.70	3.60	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	362.4	B.2.4.5-3	7.30	3.80	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	402.7	B.2.4.5-3	7.40	3.80	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	402.7	B.2.4.5-3	7.00	3.00	0.05	0.00	0.00
N-3.60	B237	591	VC0.5x1	403.0	B.2.4.5-3	7.00	4.30	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	49.1	B.2.4.7-8	2.90	4.00	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	98.2	B.2.4.7-8	3.80	3.80	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	98.2	B.2.4.7-8	3.70	3.70	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	147.3	B.2.4.7-8	3.70	3.70	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	147.3	B.2.4.7-8	3.60	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	196.4	B.2.4.7-8	3.60	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	196.4	B.2.4.7-8	3.60	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	206.3	B.2.4.7-8	3.60	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	206.3	B.2.4.7-8	3.70	3.70	0.07	0.00	0.00
N-3.60	B238	666	VC0.5x1	240.0	B.2.4.5-8	4.70	3.70	0.07	0.00	0.00
N-3.60	B238	666	VC0.5x1	240.0	B.2.4.5-8	4.80	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	245.5	B.2.4.5-8	4.80	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	245.5	B.2.4.5-8	5.40	3.70	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	294.5	B.2.4.5-8	5.10	3.70	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	294.5	B.2.4.5-8	6.00	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	343.6	B.2.4.5-8	5.90	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	343.6	B.2.4.5-8	6.80	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	392.7	B.2.4.5-8	6.70	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	392.7	B.2.4.5-8	7.60	3.60	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	441.8	B.2.4.5-8	7.50	3.60	0.05	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B238	666	VC0.5x1	441.8	B.2.4.5-8	8.50	3.70	0.05	0.00	0.00
N-3.60	B238	666	VC0.5x1	490.9	B.2.4.5-8	8.40	5.10	0.05	0.00	0.00
N-3.60	B240	1183	VC0.5x1	49.1	B.2.4.5-8	2.10	22.60	0.26	0.00	0.00
N-3.60	B240	1183	VC0.5x1	98.2	B.2.4.5-8	9.00	13.80	0.26	0.00	0.00
N-3.60	B240	1183	VC0.5x1	98.2	B.2.4.5-8	9.30	13.10	0.19	0.00	0.00
N-3.60	B240	1183	VC0.5x1	147.3	B.2.4.5-8	9.30	9.30	0.19	0.00	0.00
N-3.60	B240	1183	VC0.5x1	147.3	B.2.4.5-8	9.50	9.50	0.14	0.00	0.00
N-3.60	B240	1183	VC0.5x1	196.4	B.2.4.5-8	13.10	9.50	0.15	0.00	0.00
N-3.60	B240	1183	VC0.5x1	196.4	B.2.4.5-8	13.90	9.70	0.11	0.00	0.00
N-3.60	B240	1183	VC0.5x1	240.0	B.2.4.5-3	15.40	9.70	0.11	0.00	0.00
N-3.60	B240	1183	VC0.5x1	240.0	B.2.4.5-3	15.40	9.80	0.03	0.00	0.00
N-3.60	B240	1183	VC0.5x1	245.5	B.2.4.5-3	15.40	9.80	0.03	0.00	0.00
N-3.60	B240	1183	VC0.5x1	245.5	B.2.4.5-3	15.40	9.90	0.03	0.00	0.00
N-3.60	B240	1183	VC0.5x1	294.5	B.2.4.5-3	15.40	9.90	0.03	0.00	0.00
N-3.60	B240	1183	VC0.5x1	294.5	B.2.4.5-3	15.40	10.10	0.04	0.00	0.00
N-3.60	B240	1183	VC0.5x1	343.6	B.2.4.5-3	15.40	10.10	0.04	0.00	0.00
N-3.60	B240	1183	VC0.5x1	343.6	B.2.4.5-3	15.40	10.20	0.06	0.00	0.00
N-3.60	B240	1183	VC0.5x1	392.7	B.2.4.5-8	15.40	10.20	0.06	0.00	0.00
N-3.60	B240	1183	VC0.5x1	392.7	B.2.4.5-8	15.40	10.30	0.07	0.00	0.00
N-3.60	B240	1183	VC0.5x1	441.8	B.2.4.5-8	14.40	10.30	0.07	0.00	0.00
N-3.60	B240	1183	VC0.5x1	441.8	B.2.4.5-8	14.20	10.40	0.09	0.00	0.00
N-3.60	B240	1183	VC0.5x1	490.9	B.2.4.5-8	10.20	6.90	0.09	0.00	0.00
N-3.60	B257	1214	VC0.5x1	49.1	B.2.4.5-8	1.90	21.00	0.23	0.00	0.00
N-3.60	B257	1214	VC0.5x1	98.2	B.2.4.5-8	8.30	12.80	0.24	0.00	0.00
N-3.60	B257	1214	VC0.5x1	98.2	B.2.4.5-8	8.40	11.90	0.17	0.00	0.00
N-3.60	B257	1214	VC0.5x1	147.3	B.2.4.5-8	8.40	8.40	0.17	0.00	0.00
N-3.60	B257	1214	VC0.5x1	147.3	B.2.4.5-8	8.50	8.50	0.13	0.00	0.00
N-3.60	B257	1214	VC0.5x1	196.4	B.2.4.5-8	12.20	8.50	0.13	0.00	0.00
N-3.60	B257	1214	VC0.5x1	196.4	B.2.4.5-8	12.90	8.70	0.10	0.00	0.00
N-3.60	B257	1214	VC0.5x1	240.0	B.2.4.5-3	15.40	8.70	0.10	0.00	0.00
N-3.60	B257	1214	VC0.5x1	240.0	B.2.4.5-3	15.40	8.80	0.02	0.00	0.00
N-3.60	B257	1214	VC0.5x1	245.5	B.2.4.5-3	15.40	8.80	0.02	0.00	0.00
N-3.60	B257	1214	VC0.5x1	245.5	B.2.4.5-3	15.40	8.80	0.02	0.00	0.00
N-3.60	B257	1214	VC0.5x1	294.5	B.2.4.5-3	15.40	8.80	0.02	0.00	0.00
N-3.60	B257	1214	VC0.5x1	294.5	B.2.4.5-3	15.40	8.90	0.04	0.00	0.00
N-3.60	B257	1214	VC0.5x1	343.6	B.2.4.5-3	15.40	8.90	0.04	0.00	0.00
N-3.60	B257	1214	VC0.5x1	343.6	B.2.4.5-3	15.40	9.00	0.05	0.00	0.00
N-3.60	B257	1214	VC0.5x1	392.7	B.2.4.5-8	15.40	9.00	0.05	0.00	0.00
N-3.60	B257	1214	VC0.5x1	392.7	B.2.4.5-8	15.40	9.10	0.07	0.00	0.00
N-3.60	B257	1214	VC0.5x1	441.8	B.2.4.5-8	13.70	9.10	0.07	0.00	0.00
N-3.60	B257	1214	VC0.5x1	441.8	B.2.4.5-8	13.50	9.20	0.09	0.00	0.00
N-3.60	B257	1214	VC0.5x1	490.9	B.2.4.5-8	9.70	6.30	0.09	0.00	0.00
N-3.60	B258	884	VC0.5x1	0.0	B.2.4.7-8	1.60	2.20	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	49.1	B.2.4.7-8	2.90	2.90	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	49.1	B.2.4.7-8	2.80	2.80	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	98.2	B.2.4.7-8	2.80	2.80	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	98.2	B.2.4.7-8	2.80	2.80	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	147.3	B.2.4.7-8	2.80	2.80	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	147.3	B.2.4.7-8	2.70	2.70	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	196.4	B.2.4.7-8	3.00	2.70	0.04	0.00	0.00
N-3.60	B258	884	VC0.5x1	196.4	B.2.4.7-8	3.00	2.60	0.04	0.00	0.00
N-3.60	B258	884	VC0.5x1	240.0	B.2.4.7-8	3.60	2.60	0.04	0.00	0.00
N-3.60	B258	884	VC0.5x1	240.0	B.2.4.5-8	3.80	2.60	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	245.5	B.2.4.5-8	3.80	2.60	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	245.5	B.2.4.5-8	4.20	2.70	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	294.5	B.2.4.5-8	4.00	2.70	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	294.5	B.2.4.5-8	4.60	2.50	0.03	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B258	884	VC0.5x1	343.6	B.2.4.5-8	4.60	2.50	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	343.6	B.2.4.5-8	5.20	2.50	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	392.7	B.2.4.5-8	5.10	2.50	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	392.7	B.2.4.5-8	5.70	2.40	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	441.8	B.2.4.5-8	5.60	2.40	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	441.8	B.2.4.5-8	6.20	2.30	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	490.9	B.2.4.5-8	6.10	2.30	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	490.9	B.2.4.5-8	6.80	2.30	0.03	0.00	0.00
N-3.60	B258	884	VC0.5x1	540.0	B.2.4.5-8	6.90	3.70	0.03	0.00	0.00
N-3.60	B60	676	VC0.5x1	0.0	B.2.4.7-4	1.20	1.70	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	49.7	B.2.4.5-3	2.50	1.50	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	49.7	B.2.4.7-4	1.90	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	99.3	B.2.4.5-3	3.10	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	99.3	B.2.4.7-4	2.30	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	149.0	B.2.4.5-3	3.00	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	149.0	B.2.4.7-4	2.50	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	198.7	B.2.4.5-3	2.90	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	198.7	B.2.4.7-4	2.60	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	223.5	B.2.4.5-3	2.80	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	223.5	B.2.4.7-4	2.70	1.60	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	248.3	B.2.4.7-4	2.50	1.80	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	248.3	B.2.4.7-4	2.70	1.70	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	298.0	B.2.4.7-4	2.50	2.10	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	298.0	B.2.4.7-4	2.70	2.00	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	347.7	B.2.4.7-4	2.50	2.30	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	347.7	B.2.4.7-4	2.80	2.20	0.00	0.00	0.00
N-3.60	B60	676	VC0.5x1	397.3	B.2.4.7-4	2.60	2.40	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	50.0	B.2.4.7-4	2.30	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	51.5	B.2.4.7-4	2.30	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	51.5	B.2.4.7-4	2.40	2.30	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	77.3	B.2.4.7-4	2.40	2.20	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	103.0	B.2.4.7-4	2.50	2.00	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	103.0	B.2.4.7-4	2.20	2.20	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	128.8	B.2.4.7-4	2.30	2.00	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	154.5	B.2.4.7-4	2.50	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	154.5	B.2.4.7-4	2.10	2.10	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	180.3	B.2.4.7-4	2.30	1.80	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	206.0	B.2.4.7-4	2.50	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	206.0	B.2.4.7-4	2.00	1.90	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	231.8	B.2.4.7-4	2.30	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	257.5	B.2.4.7-4	2.60	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	257.5	B.2.4.7-4	2.10	1.50	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	283.3	B.2.4.7-4	2.40	1.50	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	309.0	B.2.4.5-3	2.80	1.50	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	309.0	B.2.4.5-3	3.30	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	334.7	B.2.4.5-3	2.60	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	360.5	B.2.4.7-4	2.20	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	360.5	B.2.4.5-3	3.00	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	386.3	B.2.4.7-4	2.50	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	412.0	B.2.4.7-4	2.10	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	412.0	B.2.4.5-3	3.10	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	437.8	B.2.4.7-4	2.40	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	463.5	B.2.4.7-4	2.00	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	463.5	B.2.4.5-3	3.30	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	489.2	B.2.4.7-4	2.40	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	515.0	B.2.4.7-4	1.80	1.70	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	515.0	B.2.4.5-3	3.40	1.60	0.00	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unlque Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B61	689	VC0.5x1	540.8	B.2.4.7-4	2.20	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	566.5	B.2.4.7-4	1.60	1.60	0.00	0.00	0.00
N-3.60	B61	689	VC0.5x1	566.5	B.2.4.5-3	3.00	1.60	0.02	0.00	0.00
N-3.60	B61	689	VC0.5x1	592.3	B.2.4.7-4	1.70	1.60	0.02	0.00	0.00
N-3.60	B61	689	VC0.5x1	618.0	B.2.4.7-4	1.20	2.00	0.02	0.00	0.00
N-3.60	B76	700	VC0.5x1	0.0	B.2.4.7-4	3.10	2.40	0.05	0.00	0.00
N-3.60	B76	700	VC0.5x1	25.2	B.2.4.5-3	4.10	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	50.3	B.2.4.5-3	4.10	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	50.3	B.2.4.5-3	4.10	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	75.5	B.2.4.5-3	4.10	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	100.7	B.2.4.5-3	4.10	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	100.7	B.2.4.5-3	4.20	4.20	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	106.5	B.2.4.5-3	4.20	4.20	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	106.5	B.2.4.5-8	4.60	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	151.0	B.2.4.5-8	4.80	4.10	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	151.0	B.2.4.5-3	5.50	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	176.2	B.2.4.5-3	5.80	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	201.3	B.2.4.5-3	6.10	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	201.3	B.2.4.5-3	6.60	4.00	0.07	0.00	0.00
N-3.60	B76	700	VC0.5x1	226.5	B.2.4.5-3	7.30	4.00	0.07	0.00	0.00
N-3.60	B76	700	VC0.5x1	226.5	B.2.4.5-3	7.80	4.00	0.07	0.00	0.00
N-3.60	B76	700	VC0.5x1	251.7	B.2.4.5-3	7.40	4.00	0.07	0.00	0.00
N-3.60	B76	700	VC0.5x1	251.7	B.2.4.5-3	8.40	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	276.8	B.2.4.5-3	8.30	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	302.0	B.2.4.5-3	8.30	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	302.0	B.2.4.5-3	9.30	3.90	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	346.5	B.2.4.5-3	9.40	3.90	0.05	0.00	0.00
N-3.60	B76	700	VC0.5x1	346.5	B.2.4.5-3	9.80	3.90	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	352.3	B.2.4.5-3	9.70	3.90	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	352.3	B.2.4.5-3	10.60	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	377.5	B.2.4.5-3	10.50	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	402.7	B.2.4.5-3	10.40	4.00	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	402.7	B.2.4.5-3	11.20	3.40	0.06	0.00	0.00
N-3.60	B76	700	VC0.5x1	403.0	B.2.4.5-3	11.20	6.00	0.06	0.00	0.00
N-3.60	B95	702	VC0.5x1	25.5	B.2.4.5-8	5.60	15.40	0.17	12.10	0.05
N-3.60	B95	702	VC0.5x1	62.5	B.2.4.5-3	8.30	15.40	0.18	12.10	0.05
N-3.60	B95	702	VC0.5x1	62.5	B.2.4.5-3	13.60	15.40	0.20	13.60	0.05
N-3.60	B95	702	VC0.5x1	108.1	B.2.4.5-3	13.60	15.40	0.21	13.60	0.05
N-3.60	B95	702	VC0.5x1	108.1	B.2.4.5-3	12.40	14.50	0.20	14.80	0.06
N-3.60	B95	702	VC0.5x1	145.5	B.2.4.5-3	12.40	12.40	0.20	14.80	0.06
N-3.60	B95	702	VC0.5x1	145.5	B.2.4.5-3	11.60	11.60	0.18	14.70	0.03
N-3.60	B95	702	VC0.5x1	158.7	B.2.4.5-3	11.60	11.60	0.18	14.70	0.03
N-3.60	B95	702	VC0.5x1	158.7	B.2.4.5-3	11.40	11.40	0.18	13.10	0.05
N-3.60	B95	702	VC0.5x1	184.0	B.2.4.5-3	11.40	11.40	0.18	13.10	0.05
N-3.60	B95	702	VC0.5x1	209.4	B.2.4.5-3	11.40	11.40	0.18	13.10	0.05
N-3.60	B95	702	VC0.5x1	209.4	B.2.4.5-3	11.40	11.40	0.17	13.20	0.05
N-3.60	B95	702	VC0.5x1	234.7	B.2.4.5-3	11.40	11.40	0.17	13.20	0.05
N-3.60	B95	702	VC0.5x1	260.0	B.2.4.5-3	8.60	10.40	0.17	13.20	0.05
N-3.60	B105	1401	VC0.5x1	50.0	B.2.4.7-8	0.30	15.40	0.25	0.00	0.00
N-3.60	B105	1401	VC0.5x1	62.5	B.2.4.5-8	6.90	15.40	0.25	0.00	0.00
N-3.60	B105	1401	VC0.5x1	62.5	B.2.4.5-8	7.50	15.40	0.19	0.00	0.00
N-3.60	B105	1401	VC0.5x1	98.0	B.2.4.5-8	7.50	8.20	0.19	0.00	0.00
N-3.60	B105	1401	VC0.5x1	98.0	B.2.4.7-8	8.10	7.50	0.15	0.00	0.00
N-3.60	B105	1401	VC0.5x1	147.0	B.2.4.5-8	15.40	7.50	0.16	0.00	0.00
N-3.60	B105	1401	VC0.5x1	147.0	B.2.4.5-3	15.40	7.60	0.11	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B105	1401	VC0.5x1	196.0	B.2.4.5-8	17.30	7.60	0.11	0.00	0.00
N-3.60	B105	1401	VC0.5x1	196.0	B.2.4.5-8	17.60	7.70	0.07	0.00	0.00
N-3.60	B105	1401	VC0.5x1	245.0	B.2.4.5-3	20.40	7.70	0.07	0.00	0.00
N-3.60	B105	1401	VC0.5x1	245.0	B.2.4.5-3	20.70	7.80	0.04	0.00	0.00
N-3.60	B105	1401	VC0.5x1	294.0	B.2.4.5-3	18.00	7.80	0.04	0.00	0.00
N-3.60	B105	1401	VC0.5x1	294.0	B.2.4.5-3	17.80	7.90	0.08	0.00	0.00
N-3.60	B105	1401	VC0.5x1	343.0	B.2.4.5-3	15.40	7.90	0.07	0.00	0.00
N-3.60	B105	1401	VC0.5x1	343.0	B.2.4.5-3	15.40	8.10	0.15	0.00	0.00
N-3.60	B105	1401	VC0.5x1	392.0	B.2.4.5-8	13.30	8.10	0.14	0.00	0.00
N-3.60	B105	1401	VC0.5x1	392.0	B.2.4.5-8	13.30	8.30	0.21	0.00	0.00
N-3.60	B105	1401	VC0.5x1	441.0	B.2.4.7-8	9.80	13.80	0.21	0.00	0.00
N-3.60	B105	1401	VC0.5x1	441.0	B.2.4.7-8	10.00	15.20	0.25	0.00	0.00
N-3.60	B105	1401	VC0.5x1	490.0	B.2.4.7-8	9.30	23.30	0.25	0.00	0.00
N-3.60	B106	1402	VC0.5x1	0.0	B.2.4.7-8	10.00	21.20	0.32	0.00	0.00
N-3.60	B106	1402	VC0.5x1	25.8	B.2.4.7-8	8.70	18.30	0.32	0.00	0.00
N-3.60	B106	1402	VC0.5x1	51.5	B.2.4.5-8	8.60	15.40	0.32	0.00	0.00
N-3.60	B106	1402	VC0.5x1	51.5	B.2.4.5-8	9.00	15.40	0.27	0.00	0.00
N-3.60	B106	1402	VC0.5x1	77.3	B.2.4.5-8	9.00	15.40	0.27	0.00	0.00
N-3.60	B106	1402	VC0.5x1	103.0	B.2.4.5-8	9.00	15.40	0.27	0.00	0.00
N-3.60	B106	1402	VC0.5x1	103.0	B.2.4.5-8	9.60	15.40	0.04	12.80	0.05
N-3.60	B106	1402	VC0.5x1	128.8	B.2.4.5-8	9.60	15.40	0.04	12.80	0.05
N-3.60	B106	1402	VC0.5x1	154.5	B.2.4.5-8	3.10	16.50	0.04	12.80	0.05
N-3.60	B215	1483	VC0.5x1	49.1	B.2.4.5-8	8.30	5.40	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	77.1	B.2.4.5-8	8.40	4.20	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	77.1	B.2.4.5-8	8.40	4.20	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	98.2	B.2.4.5-8	8.50	4.20	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	98.2	B.2.4.5-8	8.60	4.20	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	135.0	B.2.4.5-8	8.90	4.20	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	135.0	B.2.4.5-8	9.10	4.20	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	147.3	B.2.4.5-8	9.10	4.20	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	147.3	B.2.4.5-8	9.30	4.30	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	196.4	B.2.4.5-8	10.50	4.30	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	196.4	B.2.4.5-8	10.70	4.40	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	231.4	B.2.4.5-8	11.60	4.40	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	231.4	B.2.4.5-8	12.10	4.40	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	240.0	B.2.4.5-8	12.10	4.40	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	240.0	B.2.4.5-8	12.40	4.40	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	245.5	B.2.4.5-8	12.50	4.40	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	245.5	B.2.4.5-8	12.50	4.50	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	270.0	B.2.4.5-8	12.60	4.50	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	270.0	B.2.4.5-8	12.70	4.50	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	294.5	B.2.4.5-8	12.70	4.50	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	294.5	B.2.4.5-8	12.80	4.50	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	343.6	B.2.4.5-8	12.70	4.50	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	343.6	B.2.4.5-8	12.70	4.60	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	385.7	B.2.4.5-8	11.90	4.60	0.08	0.00	0.00
N-3.60	B215	1483	VC0.5x1	385.7	B.2.4.5-8	11.70	4.60	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	392.7	B.2.4.5-8	11.70	4.60	0.07	0.00	0.00
N-3.60	B215	1483	VC0.5x1	392.7	B.2.4.5-8	11.70	4.70	0.10	0.00	0.00
N-3.60	B215	1483	VC0.5x1	441.8	B.2.4.5-8	9.50	4.90	0.10	0.00	0.00
N-3.60	B215	1483	VC0.5x1	441.8	B.2.4.5-8	9.30	5.10	0.12	0.00	0.00
N-3.60	B215	1483	VC0.5x1	490.9	B.2.4.7-8	5.70	10.00	0.12	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station	As Top Combo	As Top	As Bottom	At Shear	At Torsion	At Torsion
				cm		cm ²	cm ²	cm ² /cm	cm ²	cm ² /cm
N-3.60	B217	1485	VC0.5x1	49.1	B.2.4.5-8	8.30	5.50	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	98.2	B.2.4.5-8	8.20	4.20	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	98.2	B.2.4.5-8	8.30	4.30	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	147.3	B.2.4.5-8	8.40	4.30	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	147.3	B.2.4.5-8	8.50	4.40	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	196.4	B.2.4.5-8	9.20	4.40	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	196.4	B.2.4.5-8	9.40	4.50	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	240.0	B.2.4.5-8	10.60	4.50	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	240.0	B.2.4.5-8	10.90	4.50	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	245.5	B.2.4.5-8	10.90	4.50	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	245.5	B.2.4.5-8	11.00	4.60	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	294.5	B.2.4.5-8	11.70	4.60	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	294.5	B.2.4.5-8	11.80	4.70	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	324.0	B.2.4.5-8	12.00	4.70	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	324.0	B.2.4.5-8	12.10	4.70	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	343.6	B.2.4.5-8	12.20	4.70	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	343.6	B.2.4.5-8	12.30	4.80	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	360.0	B.2.4.5-8	12.30	4.80	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	360.0	B.2.4.5-8	12.30	4.80	0.07	0.00	0.00
N-3.60	B217	1485	VC0.5x1	392.7	B.2.4.5-8	12.20	4.80	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	392.7	B.2.4.5-8	12.30	4.90	0.08	0.00	0.00
N-3.60	B217	1485	VC0.5x1	432.0	B.2.4.5-8	11.70	4.90	0.08	0.00	0.00
N-3.60	B217	1485	VC0.5x1	432.0	B.2.4.5-8	11.50	4.90	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	441.8	B.2.4.5-8	11.40	4.90	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	441.8	B.2.4.5-8	11.50	4.90	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	450.0	B.2.4.5-8	11.40	4.90	0.06	0.00	0.00
N-3.60	B217	1485	VC0.5x1	450.0	B.2.4.5-8	11.00	4.90	0.10	0.00	0.00
N-3.60	B217	1485	VC0.5x1	490.9	B.2.4.5-8	9.50	6.50	0.10	0.00	0.00
N-3.60	B219	1486	VC0.5x1	50.0	B.2.4.5-3	1.30	22.00	0.32	0.00	0.00
N-3.60	B219	1486	VC0.5x1	51.5	B.2.4.5-3	8.20	21.60	0.32	0.00	0.00
N-3.60	B219	1486	VC0.5x1	51.5	B.2.4.5-3	8.70	21.20	0.20	0.00	0.00
N-3.60	B219	1486	VC0.5x1	77.3	B.2.4.5-3	8.70	15.70	0.20	0.00	0.00
N-3.60	B219	1486	VC0.5x1	103.0	B.2.4.5-3	8.70	13.80	0.21	0.00	0.00
N-3.60	B219	1486	VC0.5x1	103.0	B.2.4.5-3	8.70	12.90	0.11	0.00	0.00
N-3.60	B219	1486	VC0.5x1	128.8	B.2.4.5-3	8.70	8.70	0.11	0.00	0.00
N-3.60	B219	1486	VC0.5x1	154.5	B.2.4.5-3	8.70	8.70	0.11	0.00	0.00
N-3.60	B219	1486	VC0.5x1	154.5	B.2.4.5-3	8.60	8.60	0.06	0.00	0.00
N-3.60	B219	1486	VC0.5x1	180.3	B.2.4.5-3	8.60	8.60	0.06	0.00	0.00
N-3.60	B219	1486	VC0.5x1	206.0	B.2.4.5-3	8.60	8.60	0.06	0.00	0.00
N-3.60	B219	1486	VC0.5x1	206.0	B.2.4.5-3	8.50	8.50	0.03	0.00	0.00
N-3.60	B219	1486	VC0.5x1	231.8	B.2.4.5-3	8.90	8.50	0.03	0.00	0.00
N-3.60	B219	1486	VC0.5x1	257.5	B.2.4.5-3	10.70	8.50	0.03	0.00	0.00
N-3.60	B219	1486	VC0.5x1	257.5	B.2.4.5-3	10.80	8.40	0.01	0.00	0.00
N-3.60	B219	1486	VC0.5x1	283.3	B.2.4.5-3	12.00	8.40	0.01	0.00	0.00
N-3.60	B219	1486	VC0.5x1	309.0	B.2.4.5-3	13.20	8.40	0.01	0.00	0.00
N-3.60	B219	1486	VC0.5x1	309.0	B.2.4.5-3	12.60	8.20	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	334.7	B.2.4.5-3	12.00	8.20	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	360.5	B.2.4.5-3	11.50	8.20	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	360.5	B.2.4.5-3	11.30	8.10	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	386.3	B.2.4.5-3	10.70	8.10	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	412.0	B.2.4.5-3	10.10	8.10	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	412.0	B.2.4.5-3	9.90	8.00	0.00	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B219	1486	VC0.5x1	437.8	B.2.4.5-3	9.40	8.00	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	463.5	B.2.4.5-3	9.00	8.00	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	463.5	B.2.4.5-3	8.80	7.90	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	489.2	B.2.4.5-3	8.50	7.90	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	515.0	B.2.4.5-3	8.30	7.90	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	515.0	B.2.4.5-3	8.20	7.80	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	540.8	B.2.4.5-3	8.20	7.80	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	566.5	B.2.4.5-3	8.20	7.80	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	566.5	B.2.4.5-3	8.10	7.80	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	592.3	B.2.4.5-3	8.30	7.80	0.00	0.00	0.00
N-3.60	B219	1486	VC0.5x1	618.0	B.2.4.5-3	8.50	4.80	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	0.0	B.2.4.5-3	9.10	5.00	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	49.7	B.2.4.5-3	9.40	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	49.7	B.2.4.5-3	9.50	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	99.3	B.2.4.5-3	10.00	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	99.3	B.2.4.5-3	10.10	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	124.2	B.2.4.5-3	10.20	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	124.2	B.2.4.5-3	10.40	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	149.0	B.2.4.5-3	10.50	7.30	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	149.0	B.2.4.5-8	10.60	7.40	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	198.7	B.2.4.5-8	10.80	7.40	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	198.7	B.2.4.5-8	10.80	7.50	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	223.5	B.2.4.5-8	10.70	7.50	0.00	0.00	0.00
N-3.60	B220	1487	VC0.5x1	223.5	B.2.4.5-8	10.90	7.50	0.05	0.00	0.00
N-3.60	B220	1487	VC0.5x1	248.3	B.2.4.5-8	9.00	7.50	0.04	0.00	0.00
N-3.60	B220	1487	VC0.5x1	248.3	B.2.4.5-8	8.50	7.60	0.08	0.00	0.00
N-3.60	B220	1487	VC0.5x1	298.0	B.2.4.5-8	7.60	7.60	0.08	0.00	0.00
N-3.60	B220	1487	VC0.5x1	298.0	B.2.4.5-8	7.70	7.70	0.12	0.00	0.00
N-3.60	B220	1487	VC0.5x1	347.7	B.2.4.5-8	7.70	12.30	0.12	0.00	0.00
N-3.60	B220	1487	VC0.5x1	347.7	B.2.4.5-8	7.70	13.30	0.21	0.00	0.00
N-3.60	B220	1487	VC0.5x1	397.3	B.2.4.5-8	1.50	20.40	0.20	0.00	0.00
N-3.60	B261	1493	VC0.5x1	50.0	B.2.4.5-3	0.60	20.00	0.25	0.00	0.00
N-3.60	B261	1493	VC0.5x1	62.5	B.2.4.5-3	7.20	17.40	0.25	0.00	0.00
N-3.60	B261	1493	VC0.5x1	62.5	B.2.4.5-3	7.70	17.30	0.20	0.00	0.00
N-3.60	B261	1493	VC0.5x1	98.0	B.2.4.5-3	7.70	15.40	0.20	0.00	0.00
N-3.60	B261	1493	VC0.5x1	98.0	B.2.4.5-3	7.60	14.10	0.11	0.00	0.00
N-3.60	B261	1493	VC0.5x1	122.5	B.2.4.5-3	7.60	11.60	0.11	0.00	0.00
N-3.60	B261	1493	VC0.5x1	122.5	B.2.4.5-3	7.60	8.80	0.11	0.00	0.00
N-3.60	B261	1493	VC0.5x1	147.0	B.2.4.5-3	7.60	7.60	0.11	0.00	0.00
N-3.60	B261	1493	VC0.5x1	147.0	B.2.4.5-8	7.50	7.50	0.06	0.00	0.00
N-3.60	B261	1493	VC0.5x1	163.3	B.2.4.5-8	7.50	7.50	0.06	0.00	0.00
N-3.60	B261	1493	VC0.5x1	163.3	B.2.4.5-8	8.70	7.50	0.12	0.00	0.00
N-3.60	B261	1493	VC0.5x1	196.0	B.2.4.5-8	12.80	7.50	0.12	0.00	0.00
N-3.60	B261	1493	VC0.5x1	196.0	B.2.4.5-8	13.80	7.50	0.12	0.00	0.00
N-3.60	B261	1493	VC0.5x1	245.0	B.2.4.5-3	15.70	7.50	0.12	0.00	0.00
N-3.60	B261	1493	VC0.5x1	245.0	B.2.4.5-3	16.10	7.40	0.06	0.00	0.00
N-3.60	B261	1493	VC0.5x1	294.0	B.2.4.5-3	18.50	7.40	0.06	0.00	0.00
N-3.60	B261	1493	VC0.5x1	294.0	B.2.4.5-3	18.70	7.40	0.04	0.00	0.00
N-3.60	B261	1493	VC0.5x1	343.0	B.2.4.5-3	20.40	7.40	0.05	0.00	0.00
N-3.60	B261	1493	VC0.5x1	343.0	B.2.4.5-3	20.50	7.30	0.04	0.00	0.00
N-3.60	B261	1493	VC0.5x1	392.0	B.2.4.5-3	21.50	7.30	0.04	0.00	0.00
N-3.60	B261	1493	VC0.5x1	392.0	B.2.4.5-3	21.50	7.30	0.04	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B261	1493	VC0.5x1	441.0	B.2.4.5-3	21.60	7.30	0.04	0.00	0.00
N-3.60	B261	1493	VC0.5x1	441.0	B.2.4.5-3	21.50	7.30	0.04	0.00	0.00
N-3.60	B261	1493	VC0.5x1	490.0	B.2.4.5-3	20.70	13.70	0.04	0.00	0.00
N-3.60	B265	1494	VC0.5x1	0.0	B.2.4.5-3	24.80	15.40	0.28	0.00	0.00
N-3.60	B265	1494	VC0.5x1	25.8	B.2.4.5-3	18.10	11.10	0.28	0.00	0.00
N-3.60	B265	1494	VC0.5x1	51.5	B.2.4.5-3	15.40	11.10	0.28	0.00	0.00
N-3.60	B265	1494	VC0.5x1	51.5	B.2.4.5-8	14.80	11.00	0.36	0.00	0.00
N-3.60	B265	1494	VC0.5x1	77.3	B.2.4.5-8	11.00	11.00	0.36	0.00	0.00
N-3.60	B265	1494	VC0.5x1	103.0	B.2.4.5-8	11.00	11.10	0.36	0.00	0.00
N-3.60	B265	1494	VC0.5x1	103.0	B.2.4.5-8	10.90	13.90	0.32	0.00	0.00
N-3.60	B265	1494	VC0.5x1	134.8	B.2.4.5-8	10.90	19.20	0.32	0.00	0.00
N-3.60	B265	1494	VC0.5x1	134.8	B.2.4.5-8	10.90	25.20	0.25	0.00	0.00
N-3.60	B265	1494	VC0.5x1	154.5	B.2.4.5-8	10.90	28.80	0.24	0.00	0.00
N-3.60	B265	1494	VC0.5x1	154.5	B.2.4.5-8	10.70	32.00	0.21	21.90	0.08
N-3.60	B265	1494	VC0.5x1	166.7	B.2.4.7-8	4.70	33.50	0.21	21.90	0.08
N-3.60	B277	1501	VC0.5x1	50.0	B.2.4.5-8	1.70	21.90	0.31	0.00	0.00
N-3.60	B277	1501	VC0.5x1	51.5	B.2.4.5-8	8.40	21.50	0.31	0.00	0.00
N-3.60	B277	1501	VC0.5x1	51.5	B.2.4.5-8	9.30	21.30	0.19	0.00	0.00
N-3.60	B277	1501	VC0.5x1	77.3	B.2.4.5-8	9.30	16.00	0.19	0.00	0.00
N-3.60	B277	1501	VC0.5x1	103.0	B.2.4.5-8	9.30	14.50	0.20	0.00	0.00
N-3.60	B277	1501	VC0.5x1	103.0	B.2.4.5-8	9.20	13.60	0.11	0.00	0.00
N-3.60	B277	1501	VC0.5x1	128.8	B.2.4.5-8	9.20	9.20	0.11	0.00	0.00
N-3.60	B277	1501	VC0.5x1	154.5	B.2.4.5-8	9.20	9.20	0.11	0.00	0.00
N-3.60	B277	1501	VC0.5x1	154.5	B.2.4.5-8	9.10	9.10	0.06	0.00	0.00
N-3.60	B277	1501	VC0.5x1	180.3	B.2.4.5-8	9.10	9.10	0.06	0.00	0.00
N-3.60	B277	1501	VC0.5x1	206.0	B.2.4.5-8	9.10	9.10	0.06	0.00	0.00
N-3.60	B277	1501	VC0.5x1	206.0	B.2.4.5-8	8.90	8.90	0.03	0.00	0.00
N-3.60	B277	1501	VC0.5x1	231.8	B.2.4.5-3	9.40	8.90	0.03	0.00	0.00
N-3.60	B277	1501	VC0.5x1	257.5	B.2.4.5-3	11.10	8.90	0.03	0.00	0.00
N-3.60	B277	1501	VC0.5x1	257.5	B.2.4.5-3	11.20	8.80	0.01	0.00	0.00
N-3.60	B277	1501	VC0.5x1	283.3	B.2.4.5-3	12.40	8.80	0.01	0.00	0.00
N-3.60	B277	1501	VC0.5x1	309.0	B.2.4.5-3	13.60	8.80	0.01	0.00	0.00
N-3.60	B277	1501	VC0.5x1	309.0	B.2.4.5-3	13.10	8.60	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	334.7	B.2.4.5-3	12.70	8.60	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	360.5	B.2.4.5-3	12.30	8.60	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	360.5	B.2.4.5-3	12.20	8.40	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	386.3	B.2.4.5-3	11.80	8.40	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	412.0	B.2.4.5-3	11.40	8.40	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	412.0	B.2.4.5-3	11.30	8.30	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	437.8	B.2.4.5-3	11.00	8.30	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	463.5	B.2.4.5-3	10.80	8.30	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	463.5	B.2.4.5-3	10.60	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	489.2	B.2.4.5-3	10.50	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	515.0	B.2.4.5-3	10.50	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	515.0	B.2.4.5-3	10.40	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	540.8	B.2.4.5-3	10.60	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	566.5	B.2.4.5-3	10.70	8.20	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	566.5	B.2.4.5-3	10.70	8.30	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	592.3	B.2.4.5-3	11.00	8.30	0.00	0.00	0.00
N-3.60	B277	1501	VC0.5x1	618.0	B.2.4.5-3	11.40	6.50	0.00	0.00	0.00
N-3.60	B281	1502	VC0.5x1	0.0	B.2.4.5-3	12.50	7.10	0.03	0.00	0.00
N-3.60	B281	1502	VC0.5x1	49.7	B.2.4.5-3	13.80	11.30	0.03	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B281	1502	VC0.5x1	49.7	B.2.4.5-3	13.90	11.40	0.03	0.00	0.00
N-3.60	B281	1502	VC0.5x1	99.3	B.2.4.5-3	15.30	11.40	0.03	0.00	0.00
N-3.60	B281	1502	VC0.5x1	99.3	B.2.4.5-3	15.40	11.50	0.02	0.00	0.00
N-3.60	B281	1502	VC0.5x1	149.0	B.2.4.2-2	15.40	11.50	0.03	0.00	0.00
N-3.60	B281	1502	VC0.5x1	149.0	B.2.4.2-2	15.40	11.60	0.01	0.00	0.00
N-3.60	B281	1502	VC0.5x1	198.7	B.2.4.2-2	15.40	11.60	0.01	0.00	0.00
N-3.60	B281	1502	VC0.5x1	198.7	B.2.4.2-2	15.40	11.60	0.01	0.00	0.00
N-3.60	B281	1502	VC0.5x1	223.5	B.2.4.2-2	15.40	11.60	0.01	0.00	0.00
N-3.60	B281	1502	VC0.5x1	223.5	B.2.4.2-2	15.40	11.70	0.12	0.00	0.00
N-3.60	B281	1502	VC0.5x1	248.3	B.2.4.5-8	13.90	11.70	0.11	0.00	0.00
N-3.60	B281	1502	VC0.5x1	248.3	B.2.4.5-8	13.10	11.80	0.17	0.00	0.00
N-3.60	B281	1502	VC0.5x1	298.0	B.2.4.5-8	11.80	11.80	0.17	0.00	0.00
N-3.60	B281	1502	VC0.5x1	298.0	B.2.4.5-8	12.00	12.00	0.14	0.00	0.00
N-3.60	B281	1502	VC0.5x1	322.8	B.2.4.5-8	12.00	12.00	0.14	0.00	0.00
N-3.60	B281	1502	VC0.5x1	322.8	B.2.4.5-8	12.00	13.70	0.14	0.00	0.00
N-3.60	B281	1502	VC0.5x1	347.7	B.2.4.5-8	12.00	15.40	0.14	0.00	0.00
N-3.60	B281	1502	VC0.5x1	347.7	B.2.4.5-8	12.10	15.40	0.36	0.00	0.00
N-3.60	B281	1502	VC0.5x1	397.3	B.2.4.5-8	2.40	31.90	0.36	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	50.0	B.2.4.5-3	2.20	23.60	0.34	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	51.7	B.2.4.5-3	9.20	22.90	0.34	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	51.7	B.2.4.5-3	10.20	22.20	0.35	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	87.5	B.2.4.5-3	10.20	14.00	0.35	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	87.5	B.2.4.5-3	10.20	11.50	0.10	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	103.3	B.2.4.5-3	10.20	10.20	0.11	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	103.3	B.2.4.5-3	10.10	10.10	0.14	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	129.2	B.2.4.5-3	10.10	10.10	0.14	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	155.0	B.2.4.5-3	10.10	10.10	0.14	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	155.0	B.2.4.5-3	9.90	9.90	0.10	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	180.8	B.2.4.5-3	11.90	9.90	0.11	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	206.7	B.2.4.5-3	14.80	9.90	0.11	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	206.7	B.2.4.5-3	14.90	9.80	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	206.8	B.2.4.5-3	14.90	9.80	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	206.8	B.2.4.5-3	14.90	9.80	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	207.5	B.2.4.5-3	14.90	9.80	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	207.5	B.2.4.5-3	14.40	9.70	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	248.2	B.2.4.5-3	14.00	9.70	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	248.2	B.2.4.5-3	13.90	9.70	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	258.3	B.2.4.5-3	13.90	9.70	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	258.3	B.2.4.5-3	13.70	9.50	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	284.2	B.2.4.5-8	13.20	9.50	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	310.0	B.2.4.5-8	12.80	9.50	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	310.0	B.2.4.5-8	12.80	9.40	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	312.4	B.2.4.5-8	12.80	9.40	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	312.4	B.2.4.5-8	12.50	9.40	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	327.5	B.2.4.5-8	12.40	9.40	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	327.5	B.2.4.5-8	11.80	9.30	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	356.0	B.2.4.5-8	11.00	9.30	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	356.0	B.2.4.5-8	10.50	9.30	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	361.7	B.2.4.5-8	10.50	9.30	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	361.7	B.2.4.5-8	10.40	9.20	0.04	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	387.5	B.2.4.5-8	9.40	9.20	0.04	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	413.3	B.2.4.5-3	9.20	9.20	0.03	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B1231	1475	VC0.5x1	413.3	B.2.4.5-3	9.00	9.00	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	416.8	B.2.4.5-3	9.00	9.00	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	416.8	B.2.4.5-3	9.00	9.00	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	447.5	B.2.4.5-3	9.00	9.00	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	447.5	B.2.4.5-3	8.90	8.90	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	462.9	B.2.4.5-3	8.90	8.90	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	462.9	B.2.4.5-3	8.90	8.90	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	465.0	B.2.4.5-3	8.90	8.90	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	465.0	B.2.4.5-3	8.80	8.80	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	490.8	B.2.4.5-3	8.80	8.80	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	516.7	B.2.4.5-3	8.80	8.80	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	516.7	B.2.4.5-3	8.60	8.60	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	522.2	B.2.4.5-3	8.60	8.60	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	522.2	B.2.4.5-3	8.60	8.60	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	567.5	B.2.4.5-3	8.60	8.60	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	567.5	B.2.4.5-8	8.50	8.50	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	568.2	B.2.4.5-8	8.50	8.50	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	568.2	B.2.4.5-8	8.50	8.50	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	568.2	B.2.4.5-8	8.50	8.50	0.01	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	568.3	B.2.4.5-8	8.40	8.40	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	594.2	B.2.4.5-8	8.40	8.40	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	620.0	B.2.4.5-8	8.40	8.40	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	620.0	B.2.4.5-8	8.30	8.30	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	645.8	B.2.4.5-8	8.30	8.30	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	671.7	B.2.4.5-8	8.30	8.30	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	671.7	B.2.4.5-8	8.20	8.20	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	687.5	B.2.4.5-8	8.20	8.20	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	687.5	B.2.4.5-8	8.20	8.20	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	723.3	B.2.4.5-8	8.20	8.20	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	723.3	B.2.4.5-8	8.20	8.20	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	749.2	B.2.4.5-8	8.20	8.20	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	775.0	B.2.4.5-8	8.20	8.20	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	775.0	B.2.4.5-8	8.50	8.50	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	800.8	B.2.4.5-8	8.50	8.50	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	826.7	B.2.4.5-8	8.50	8.50	0.03	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	826.7	B.2.4.5-8	8.40	8.40	0.02	0.00	0.00
N-3.60	B1231	1475	VC0.5x1	862.5	B.2.4.5-3	2.60	4.10	0.03	0.00	0.00
N-3.60	B107	1529	VC0.5x1	50.0	B.2.4.5-3	2.70	45.10	0.00	12.50	0.05
N-3.60	B107	1529	VC0.5x1	75.0	B.2.4.5-3	15.40	30.50	0.00	12.50	0.05
N-3.60	B107	1529	VC0.5x1	75.0	B.2.4.5-3	15.40	30.70	0.26	11.90	0.05
N-3.60	B107	1529	VC0.5x1	87.5	B.2.4.5-3	15.40	26.70	0.26	11.90	0.05
N-3.60	B107	1529	VC0.5x1	87.5	B.2.4.5-3	15.40	24.50	0.31	15.90	0.06
N-3.60	B107	1529	VC0.5x1	103.3	B.2.4.5-3	15.40	20.30	0.31	15.90	0.06
N-3.60	B107	1529	VC0.5x1	103.3	B.2.4.5-3	15.40	19.10	0.33	17.50	0.07
N-3.60	B107	1529	VC0.5x1	129.2	B.2.4.5-3	15.40	15.40	0.34	17.50	0.07
N-3.60	B107	1529	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.34	17.50	0.07
N-3.60	B107	1529	VC0.5x1	155.0	B.2.4.5-3	15.40	15.40	0.04	18.50	0.07
N-3.60	B107	1529	VC0.5x1	156.0	B.2.4.5-3	15.40	15.40	0.04	18.50	0.07
N-3.60	B107	1529	VC0.5x1	156.0	B.2.4.5-3	15.40	15.40	0.13	16.70	0.06
N-3.60	B107	1529	VC0.5x1	206.7	B.2.4.5-3	15.40	15.40	0.13	16.70	0.06
N-3.60	B107	1529	VC0.5x1	206.7	B.2.4.5-3	15.40	15.40	0.04	17.60	0.07
N-3.60	B107	1529	VC0.5x1	207.5	B.2.4.5-3	15.40	15.40	0.04	17.60	0.07

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B107	1529	VC0.5x1	207.5	B.2.4.5-3	15.40	15.40	0.04	14.90	0.06
N-3.60	B107	1529	VC0.5x1	258.3	B.2.4.4-4	15.40	15.40	0.04	14.90	0.06
N-3.60	B107	1529	VC0.5x1	258.3	B.2.4.4-4	15.40	15.40	0.04	15.90	0.06
N-3.60	B107	1529	VC0.5x1	284.2	B.2.4.4-4	15.40	15.40	0.04	15.90	0.06
N-3.60	B107	1529	VC0.5x1	310.0	B.2.4.5-3	15.80	15.40	0.04	15.90	0.06
N-3.60	B107	1529	VC0.5x1	310.0	B.2.4.5-3	15.70	15.40	0.04	16.30	0.06
N-3.60	B107	1529	VC0.5x1	327.5	B.2.4.5-8	15.90	15.40	0.04	16.30	0.06
N-3.60	B107	1529	VC0.5x1	327.5	B.2.4.4-4	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	361.7	B.2.4.4-4	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	361.7	B.2.4.4-4	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	387.5	B.2.4.2-2	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	413.3	B.2.4.2-2	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	413.3	B.2.4.2-2	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	447.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	447.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	465.0	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	465.0	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	490.8	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	516.7	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	516.7	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	567.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	567.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	568.3	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	568.3	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	594.2	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	620.0	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	620.0	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	645.8	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	671.7	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	671.7	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	687.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	687.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	723.3	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	723.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	749.2	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	775.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	775.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	800.8	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	826.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	826.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	862.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	862.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	878.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	878.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	904.2	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	930.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	930.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	955.8	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	981.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	981.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	982.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	982.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B107	1529	VC0.5x1	1033.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1033.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1059.2	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1085.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1085.0	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1102.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1102.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1136.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1136.7	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1162.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1188.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1188.3	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1222.5	B.2.4.5-8	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1222.5	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1240.0	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1240.0	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1265.8	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1291.7	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1291.7	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1342.5	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1342.5	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1343.3	B.2.4.5-8	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1343.3	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1369.2	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1395.0	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1395.0	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1420.8	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1446.7	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1446.7	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1462.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1462.5	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1498.3	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1498.3	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1524.2	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1550.0	B.2.4.5-3	15.40	15.40	0.00	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1550.0	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1600.6	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1600.6	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1651.3	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1651.3	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1664.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1664.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1701.9	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1701.9	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1752.6	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1752.6	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1784.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1784.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1803.2	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1803.2	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1853.9	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1853.9	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B107	1529	VC0.5x1	1904.5	B.2.4.5-3	15.40	15.40	0.04	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1904.5	B.2.4.5-3	15.40	15.40	0.09	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1948.4	B.2.4.5-3	15.40	15.40	0.09	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1948.4	B.2.4.5-3	15.40	15.40	0.12	0.00	0.00
N-3.60	B107	1529	VC0.5x1	1949.0	B.2.4.5-3	10.10	15.00	0.12	0.00	0.00
N-3.60	B650	1548	VC0.5x1	0.0	B.2.4.7-8	2.30	2.10	0.07	15.10	0.06
N-3.60	B650	1548	VC0.5x1	49.1	B.2.4.5-8	9.50	5.30	0.07	15.10	0.06
N-3.60	B650	1548	VC0.5x1	49.1	B.2.4.5-8	10.20	5.40	0.04	17.10	0.06
N-3.60	B650	1548	VC0.5x1	98.2	B.2.4.5-8	15.40	5.40	0.04	17.10	0.06
N-3.60	B650	1548	VC0.5x1	98.2	B.2.4.5-8	15.40	5.60	0.04	17.10	0.06
N-3.60	B650	1548	VC0.5x1	147.4	B.2.4.2-2	15.40	5.60	0.04	17.10	0.06
N-3.60	B650	1548	VC0.5x1	147.4	B.2.4.2-2	15.40	5.70	0.04	16.30	0.06
N-3.60	B650	1548	VC0.5x1	196.5	B.2.4.5-8	16.30	5.70	0.04	16.30	0.06
N-3.60	B650	1548	VC0.5x1	196.5	B.2.4.5-8	16.40	5.80	0.04	15.30	0.06
N-3.60	B650	1548	VC0.5x1	245.6	B.2.4.5-8	16.80	5.80	0.04	15.30	0.06
N-3.60	B650	1548	VC0.5x1	245.6	B.2.4.5-8	16.70	5.80	0.04	14.90	0.06
N-3.60	B650	1548	VC0.5x1	277.5	B.2.4.5-8	16.70	5.80	0.04	14.90	0.06
N-3.60	B650	1548	VC0.5x1	277.5	B.2.4.5-8	16.60	5.70	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	294.7	B.2.4.5-8	16.10	5.70	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	294.7	B.2.4.5-8	16.00	5.70	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	343.8	B.2.4.5-3	15.40	5.70	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	343.8	B.2.4.5-3	15.40	5.50	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	392.9	B.2.4.5-8	14.70	5.50	0.04	0.00	0.00
N-3.60	B650	1548	VC0.5x1	392.9	B.2.4.5-8	14.40	5.40	0.02	0.00	0.00
N-3.60	B650	1548	VC0.5x1	442.1	B.2.4.5-8	11.40	5.40	0.01	0.00	0.00
N-3.60	B650	1548	VC0.5x1	442.1	B.2.4.5-8	11.10	5.40	0.05	0.00	0.00
N-3.60	B650	1548	VC0.5x1	491.2	B.2.4.5-8	8.60	5.40	0.05	0.00	0.00
N-3.60	B650	1548	VC0.5x1	491.2	B.2.4.5-8	8.30	5.40	0.00	0.00	0.00
N-3.60	B650	1548	VC0.5x1	495.0	B.2.4.5-8	8.20	5.40	0.00	0.00	0.00
N-3.60	B650	1548	VC0.5x1	495.0	B.2.4.7-8	8.00	5.50	0.18	21.50	0.08
N-3.60	B650	1548	VC0.5x1	540.3	B.2.4.7-8	5.90	12.10	0.18	21.50	0.08
N-3.60	B650	1548	VC0.5x1	540.3	B.2.4.7-8	5.70	13.00	0.12	24.10	0.09
N-3.60	B650	1548	VC0.5x1	555.0	B.2.4.7-8	5.20	15.40	0.12	24.10	0.09
N-3.60	B735	1479	VC0.5x1	0.0	B.2.4.5-3	2.50	3.60	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	15.8	B.2.4.5-3	2.40	3.40	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	15.8	B.2.4.5-3	2.30	3.20	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	41.7	B.2.4.5-3	2.20	2.80	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	67.5	B.2.4.5-3	2.10	2.40	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	67.5	B.2.4.5-3	2.10	2.20	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	93.3	B.2.4.5-3	2.00	2.00	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	119.2	B.2.4.5-3	2.00	2.00	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	119.2	B.2.4.5-3	2.00	2.00	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	120.0	B.2.4.5-3	2.00	2.00	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	120.0	B.2.4.5-3	2.00	2.00	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	145.4	B.2.4.5-3	2.00	2.00	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	170.8	B.2.4.5-3	2.00	2.00	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	170.8	B.2.4.5-3	2.10	2.10	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	196.7	B.2.4.5-3	2.10	2.10	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	222.5	B.2.4.5-3	2.10	2.10	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	222.5	B.2.4.5-3	2.10	2.10	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	240.0	B.2.4.5-3	2.10	2.10	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	240.0	B.2.4.5-3	2.20	2.20	0.02	0.00	0.00

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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B735	1479	VC0.5x1	274.2	B.2.4.5-3	2.20	2.20	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	274.2	B.2.4.5-3	2.30	2.30	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	300.0	B.2.4.5-3	2.30	2.30	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	325.8	B.2.4.5-3	2.30	2.30	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	325.8	B.2.4.5-3	2.40	2.40	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	360.0	B.2.4.5-3	2.40	2.40	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	360.0	B.2.4.5-3	2.50	2.50	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	377.5	B.2.4.5-3	2.50	2.50	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	377.5	B.2.4.5-3	2.60	2.60	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	403.3	B.2.4.5-3	2.60	2.60	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	429.2	B.2.4.5-3	2.60	2.60	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	429.2	B.2.4.5-3	2.70	2.70	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	454.6	B.2.4.5-3	2.70	2.70	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	480.0	B.2.4.5-3	2.70	2.70	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	480.0	B.2.4.5-3	2.80	2.80	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	480.8	B.2.4.5-3	2.80	2.80	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	480.8	B.2.4.5-3	2.80	2.80	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	506.7	B.2.4.5-3	2.80	3.20	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	532.5	B.2.4.5-3	2.80	3.50	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	532.5	B.2.4.5-3	2.90	3.70	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	558.3	B.2.4.5-3	2.90	4.10	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	584.2	B.2.4.5-3	3.00	4.40	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	584.2	B.2.4.5-3	3.10	4.50	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	600.0	B.2.4.5-3	3.20	4.60	0.01	0.00	0.00
N-3.60	B735	1479	VC0.5x1	600.0	B.2.4.5-3	3.40	5.00	0.03	0.00	0.00
N-3.60	B735	1479	VC0.5x1	635.8	B.2.4.5-3	3.70	5.80	0.02	0.00	0.00
N-3.60	B735	1479	VC0.5x1	635.8	B.2.4.5-3	3.80	6.10	0.03	0.00	0.00
N-3.60	B735	1479	VC0.5x1	637.5	B.2.4.5-3	3.90	6.10	0.03	0.00	0.00
N-3.60	B739	1516	VC0.5x1	0.0	B.2.4.7-4	4.60	20.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	25.8	B.2.4.5-3	9.90	18.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	51.7	B.2.4.5-3	9.90	16.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	51.7	B.2.4.5-3	9.90	15.80	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	80.5	B.2.4.5-3	9.90	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	80.5	B.2.4.5-3	9.90	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	87.5	B.2.4.5-3	9.90	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	87.5	B.2.4.5-3	9.70	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	89.2	B.2.4.5-3	9.70	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	89.2	B.2.4.5-3	9.70	15.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	103.3	B.2.4.5-3	9.70	15.00	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	103.3	B.2.4.5-3	9.70	13.90	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	140.9	B.2.4.5-3	9.70	10.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	140.9	B.2.4.5-3	9.70	9.70	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	155.0	B.2.4.5-3	9.70	9.70	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	155.0	B.2.4.5-3	9.50	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	193.7	B.2.4.5-3	9.50	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	193.7	B.2.4.5-3	9.90	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	206.7	B.2.4.5-3	10.10	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	206.7	B.2.4.5-3	10.20	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	207.5	B.2.4.5-3	10.20	9.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	207.5	B.2.4.5-3	10.50	9.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	232.9	B.2.4.5-8	12.00	9.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	258.3	B.2.4.5-8	13.70	9.40	0.04	0.00	0.00

TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B739	1516	VC0.5x1	258.3	B.2.4.5-8	14.00	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	281.8	B.2.4.5-8	14.50	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	281.8	B.2.4.5-8	15.20	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	310.0	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	310.0	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	327.5	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	327.5	B.2.4.5-3	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	361.7	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	361.7	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	387.5	B.2.4.5-8	15.40	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	387.5	B.2.4.5-8	14.80	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	413.3	B.2.4.5-8	14.00	9.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	413.3	B.2.4.5-8	13.50	9.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	447.5	B.2.4.5-8	10.90	9.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	447.5	B.2.4.5-8	10.10	9.40	0.10	11.80	0.04
N-3.60	B739	1516	VC0.5x1	465.0	B.2.4.5-3	9.40	9.40	0.10	11.80	0.04
N-3.60	B739	1516	VC0.5x1	465.0	B.2.4.5-3	9.60	9.60	0.14	12.10	0.05
N-3.60	B739	1516	VC0.5x1	493.2	B.2.4.5-3	9.60	10.10	0.14	12.10	0.05
N-3.60	B739	1516	VC0.5x1	493.2	B.2.4.5-3	9.60	14.80	0.10	12.10	0.05
N-3.60	B739	1516	VC0.5x1	516.7	B.2.4.5-3	9.60	15.40	0.10	12.10	0.05
N-3.60	B739	1516	VC0.5x1	516.7	B.2.4.5-3	9.80	16.10	0.29	13.40	0.05
N-3.60	B739	1516	VC0.5x1	542.1	B.2.4.5-3	9.80	23.80	0.29	13.40	0.05
N-3.60	B739	1516	VC0.5x1	567.5	B.2.4.5-3	9.80	31.90	0.29	13.40	0.05
N-3.60	B739	1516	VC0.5x1	567.5	B.2.4.5-3	9.90	33.50	0.00	56.40	0.21
N-3.60	B739	1516	VC0.5x1	568.3	B.2.4.5-3	9.90	33.50	0.00	56.40	0.21
N-3.60	B739	1516	VC0.5x1	568.3	B.2.4.5-3	9.90	36.80	0.04	58.40	0.22
N-3.60	B739	1516	VC0.5x1	581.2	B.2.4.5-3	9.90	39.30	0.04	58.40	0.22
N-3.60	B739	1516	VC0.5x1	581.2	B.2.4.5-3	9.90	46.70	0.00	58.40	0.22
N-3.60	B739	1516	VC0.5x1	586.0	B.2.4.5-3	9.90	46.90	0.00	58.40	0.22
N-3.60	B739	1516	VC0.5x1	586.0	B.2.4.5-3	11.60	17.80	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	620.0	B.2.4.5-3	11.60	17.80	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	620.0	B.2.4.5-3	11.70	17.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	645.8	B.2.4.5-3	11.70	17.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	671.7	B.2.4.5-3	11.70	17.20	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	671.7	B.2.4.5-3	11.60	17.60	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	687.5	B.2.4.5-3	11.60	17.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	687.5	B.2.4.5-3	11.80	18.00	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	704.5	B.2.4.5-3	11.80	18.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	704.5	B.2.4.5-3	11.60	18.50	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	723.3	B.2.4.5-3	11.60	18.60	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	723.3	B.2.4.5-3	11.90	19.30	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	749.2	B.2.4.5-3	11.90	19.40	0.04	0.00	0.00
N-3.60	B739	1516	VC0.5x1	775.0	B.2.4.7-4	7.00	19.50	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	0.0	B.2.4.5-3	5.50	4.20	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	45.3	B.2.4.5-3	5.30	4.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	45.3	B.2.4.5-3	4.30	4.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	94.4	B.2.4.5-3	4.30	4.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	94.4	B.2.4.5-3	4.30	4.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	143.5	B.2.4.5-3	4.30	4.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	143.5	B.2.4.5-3	4.50	4.80	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	192.6	B.2.4.5-3	4.50	4.90	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	192.6	B.2.4.5-3	5.00	6.70	0.04	0.00	0.00

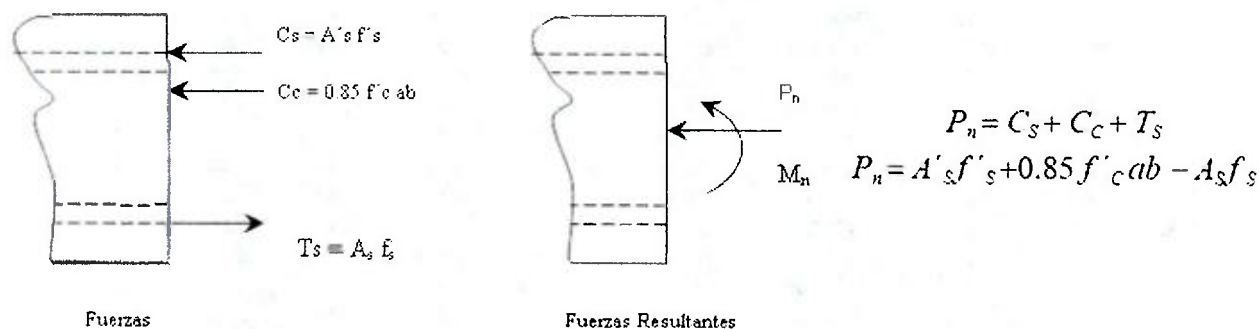
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TABLE: Concrete Beam Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	As Top Combo	As Top cm ²	As Bottom cm ²	At Shear cm ² /cm	At Torsion cm ²	At Torsion cm ² /cm
N-3.60	B284	1607	VC0.5x1	241.8	B.2.4.5-3	5.00	6.90	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	241.8	B.2.4.5-3	6.20	9.20	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	277.5	B.2.4.5-3	6.20	9.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	277.5	B.2.4.5-3	3.30	7.30	0.04	0.00	0.00
N-3.60	B284	1607	VC0.5x1	290.0	B.2.4.5-3	1.90	7.30	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	50.0	B.2.4.7-8	9.40	10.30	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	51.5	B.2.4.5-8	9.50	10.20	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	51.5	B.2.4.7-8	10.40	11.10	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	98.2	B.2.4.5-8	12.60	7.70	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	98.2	B.2.4.5-8	12.50	7.60	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	147.4	B.2.4.5-8	13.40	4.50	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	147.4	B.2.4.5-8	13.30	4.60	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	196.5	B.2.4.5-8	11.90	4.60	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	196.5	B.2.4.5-8	11.80	4.60	0.09	0.00	0.00
N-3.60	B285	1525	VC0.5x1	245.6	B.2.4.5-8	9.20	4.60	0.08	0.00	0.00
N-3.60	B285	1525	VC0.5x1	245.6	B.2.4.5-8	9.30	4.70	0.08	0.00	0.00
N-3.60	B285	1525	VC0.5x1	277.5	B.2.4.5-8	11.00	4.70	0.08	0.00	0.00
N-3.60	B285	1525	VC0.5x1	277.5	B.2.4.5-8	11.20	4.80	0.14	0.00	0.00
N-3.60	B285	1525	VC0.5x1	294.7	B.2.4.5-8	11.90	5.90	0.14	0.00	0.00
N-3.60	B285	1525	VC0.5x1	294.7	B.2.4.7-8	12.10	6.70	0.28	0.00	0.00
N-3.60	B285	1525	VC0.5x1	343.8	B.2.4.7-8	15.40	15.40	0.28	0.00	0.00
N-3.60	B285	1525	VC0.5x1	343.8	B.2.4.7-8	15.40	15.50	0.27	0.00	0.00
N-3.60	B285	1525	VC0.5x1	392.9	B.2.4.7-8	18.30	31.20	0.27	0.00	0.00
N-3.60	B285	1525	VC0.5x1	392.9	B.2.4.7-8	18.70	32.00	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	395.0	B.2.4.7-8	18.70	32.10	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	395.0	B.2.4.5-3	8.00	4.80	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	442.1	B.2.4.5-3	7.90	4.80	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	442.1	B.2.4.5-3	6.70	4.70	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	491.2	B.2.4.5-3	6.60	4.70	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	491.2	B.2.4.5-3	5.70	4.70	0.04	0.00	0.00
N-3.60	B285	1525	VC0.5x1	495.0	B.2.4.5-3	5.70	4.30	0.04	0.00	0.00

6.2 DISEÑO DE COLUMNAS

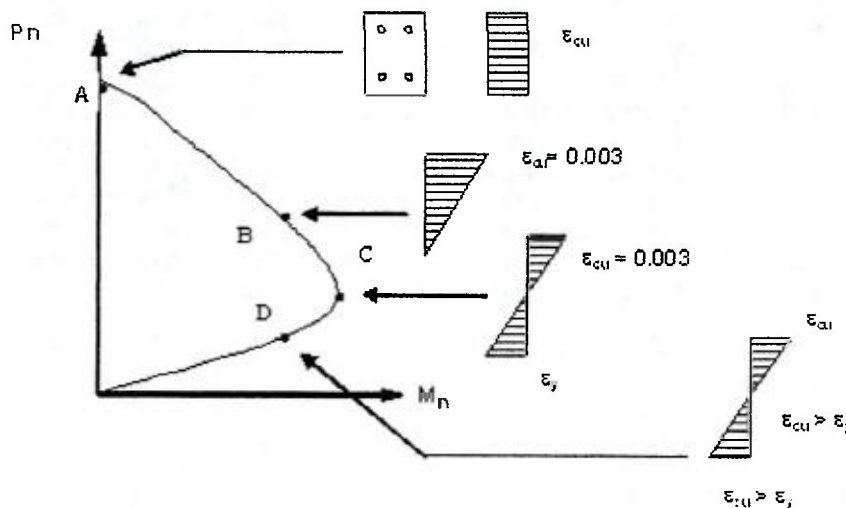
En el diseño de columnas cargadas axialmente, se deben tener en cuenta las siguientes consideraciones:



P_n : Fuerza resultante en la sección

M_n : Momento resistente en la sección de las fuerzas alrededor del eje centroidal.

La siguiente figura presenta varias distribuciones de deformaciones y los puntos resultantes en el diagrama de interacción:



Punto A: Compresión axial pura.

Punto B: Primer agrietamiento en una cara y cero tensiones en otra. (columnas cortas).

Punto C: Máxima deformación en el concreto y fluencia en el refuerzo. Falla balanceada. Representa el cambio de falla en compresión para cargas altas por falla en tensión para cargas bajas. Desde el punto C hacia arriba, el concreto falla por compresión antes que el acero falla en tensión; y hacia abajo, fluye primero el acero antes que falle el concreto por compresión.

Punto D: El refuerzo se deforma varias veces la deformación de fluencia y, antes de que el concreto se agriete, implica un comportamiento dúctil. Columnas esbeltas.

Máxima carga axial.

Para elementos sometidos a compresión y teniendo en cuenta el momento accidental por desalineamiento de la columna, y a factores como mezcla no homogénea, debido a que la relación A/C es menor en la parte superior de las columnas, que es donde fallan generalmente por sismo, el NSR-10 especifica:

C.10.3.6 — La resistencia axial de diseño ϕP_n de elementos en compresión no debe tomarse mayor que $\phi P_{n_{max}}$ calculado usando la ecuación (C.10-1) ó (C.10-2).

- Para columnas con espirales de 0.80 veces la máxima carga (C.10.3.6.1).

$$P_n = 0.80 \phi [0.85 f'_c (A_g - A_{st}) + f_y A_{st}]$$

- Para columnas con estribos de 0.75 veces la carga máxima (C.10.3.6.2).

$$\phi P_n = 0.75 \phi [0.85 f'_c (A_g - A_{st}) + f_y A_{st}]$$

Diseño:

$$\phi P_n \geq P_u \quad \phi M_n > M_u$$

P_u, M_u : Cargas actuantes mayoradas.

P_n, M_n : Resistencia nominal de la sección.

ϕ =Factor de reducción de resistencia.

$\phi = 0.65$ Columnas con estribos.

$\phi = 0.75$ Columnas con espirales.

Predimensionamiento de Columnas

Para diseñar una columna se requiere conocer la sección. Para pequeños valores de M, la sección está definida por la capacidad de carga axial.

Para columnas con estribos:

$$A_g \geq \frac{P_u}{0.45(f'_c + f_y \rho_t)} \quad \rho_t = \frac{A_{st}}{A_g}$$

Para columnas con espiral

$$A_g \geq \frac{P_u}{0.55(f'_c + f_y \rho_t)}$$

Según el C.21.4.1 Requisitos Geométricos para las columnas con capacidad Especial de disipación de energía.

(a) La fuerza axial mayorada en el elemento es mayor que $0.10 \cdot f'_c \cdot A_g$

(b) La menor dimensión de la sección del elemento, medida en una línea recta que pasa a través del centroide de la sección, no debe ser menor que **0.30 m**. Las columnas en forma de T, C o I pueden tener una dimensión mínima de **0.25 m**, pero su área no puede ser menor de **0.09 m²**.

(c) La relación entre la dimensión menor de la sección del elemento y la dimensión perpendicular a ella, no debe ser menor que **0.4**.

Esbeltez en columnas

La columna esbelta se deflecta bajo carga lateral, incremento en los momentos, efecto P-Δ, entre otros. Según el ACI 10.12.2 se permite despreciar el efecto de columna esbelta si:

C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

a) En elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

$$\frac{k\ell_u}{r} \leq 22 \quad (\text{C.10-6})$$

b) En elementos a compresión arriostrados contra desplazamientos laterales cuando:

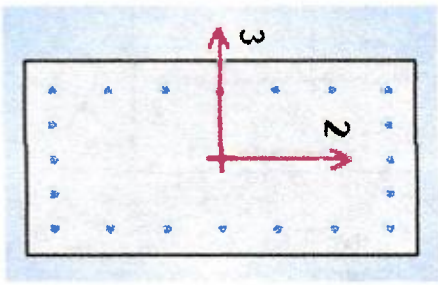
$$\frac{k\ell_u}{r} \leq 34 - 12(M_1/M_2) \leq 40 \quad (\text{C 10-7})$$

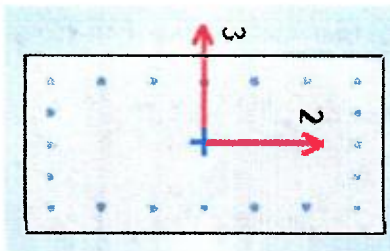
Donde el término M_1/M_2 es positivo si la columna está flectada en curvatura simple y negativo si el elemento tiene curvatura doble. Se permite considerar los elementos a compresión como arriostrados contra desplazamientos laterales cuando los elementos de arriostamiento tienen una rigidez total que restringe los movimientos laterales de ese piso de al menos doce

Lu:	Longitud libre de la columna
r:	Radio de giro, de 0.3 a 0.25 veces la profundidad de la columna rectangular y circular respectivamente.
M₁/M₂:	Relación de momentos entre los dos extremos de la columna, varía generalmente entre +0.5 y -0.5.

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Revisión Columnas Edificio A

COLUMNA RECTANGULAR 100*50	
	Ag 5000 cm ² p.min 0.01 p.max 0.040 Ast min 50.0 cm ² Ast max 200.0 cm ² b.min 50 cm
	Ast 28#7 Ast 108 cm ² Ast/Asmin 2.17 > 1,0 OK L. max 5 m
Sección: 100 x 50 Ast 28#7	
C.21.6.4 — Refuerzo transversal C.21.6.4.1 — El refuerzo transversal en las cantidades que se especifican en C.21.6.4.2 hasta C.21.6.4.4, debe suministrarse en una longitud ℓ_o medida desde cada cara del nudo y a ambos lados de cualquier sección donde pueda ocurrir fluencia por flexión como resultado de desplazamientos laterales inelásticos del pórtico. La longitud ℓ_o no debe ser menor que la mayor de (a), (b) y (c): (a) La altura del elemento en la cara del nudo o en la sección donde puede ocurrir fluencia por flexión. (b) Un sexto de la luz libre del elemento, y (c) 450 mm. a) 1 m b) 0.83 m c) 0.45 m Lo: Long. Confinamiento 1.00 m	SEPARACIÓN ZONA CONFINADA C.21.6.4.3 — La separación del refuerzo transversal a lo largo del eje longitudinal del elemento no debe exceder la menor de (a), (b), y (c): (a) La cuarta parte de la dimensión mínima del elemento. (b) Seis veces el diámetro de la barra de refuerzo longitudinal menor, y (c) s_o, según lo definido en la ecuación (C.21-5). $s_o = 100 + \left(\frac{350 - h_x}{3} \right) \quad (C.21-5)$ El valor de s_o no debe ser mayor a 150 mm y no es necesario tomarlo menor a 100 mm. a) B*1/4 12.50 cm b) 6*db 13.32 cm $s_o = 100 + \left(\frac{350 - h_x}{3} \right) = 19.67 \text{ cm}$ c) So 15.0 cm Separación máxima 12.50 cm
SEPARACIÓN ZONA NO CONFINADA C.7.10.5.2 — El espaciamiento vertical de los estribos no debe exceder 16 diámetros de barra longitudinal, 48 diámetros de barra o alambre de los estribos, o la menor dimensión del elemento sometido a compresión. 16*db 35.52 cm 48*db.estribo 45.6 cm bc 50.0 cm Separación 35.52 cm	

COLUMNA RECTANGULAR 100*50			
	Ag	5000 cm ²	
	p.min	0.01	
	p.max	0.040	
	Ast min	50.0 cm ²	
	Ast max	200.0 cm ²	
Sección: 100 x 50 Ast 28#7	b.min	50 cm	
	Ast	28#7	
	Ast	108 cm ²	
	Ast/Asmin	2.17 > 1.0 OK	
	L max	5 m	

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
 Lado largo: lw 100 cm
 Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro⁽¹⁾

Altura libre del segmento vertical de muro / longitud del segmento vertical de muro (h _w /l _w)	Longitud del segmento vertical de muro / Espesor del muro (l _w /b _w)		
	l _w /b _w ≤ 2.5	2.5 < l _w /b _w ≤ 6	l _w /b _w > 6
h _w /l _w < 2	Muro	Muro	Muro
h _w /l _w ≥ 2	El machón de muro debe cumplir los requisitos de diseño de columnas, véase 18.10.8.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos, véase 18.10.8.1	Muro

⁽¹⁾ h_w es la altura libre, l_w es la longitud horizontal, y b_w es el espesor del alma del segmento de muro.

$$(h_w/l_w) = 5.0$$

$$(h_w/l_w) \geq 2$$

$$(l_w/b_w) = 2.0$$

$$(l_w/b_w) < 2.5$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 - EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

a) en elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

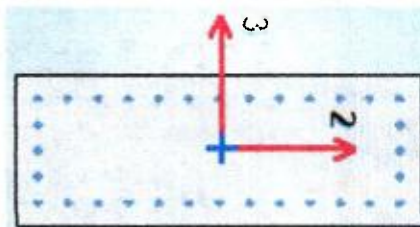
$$\frac{K \cdot l}{r} < 22 \text{ (C.10-6)} \Rightarrow \frac{K \cdot l}{r_x} = 8.68 < 22 \text{ OK}$$

$$\frac{K \cdot l}{r_y} = 17.36 < 22 \text{ OK}$$

Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

REVISION CORTANTE C.21.6.4.4 - NSR-10			
REVISION CORTANTE			
COLUMNA RECTANGULAR 100*50		(b) El area total de la seccion transversal del refuerzo de estribos cerrados de confinamiento rectangulares, A_{sh} , no debe ser menor que la requerida por las ecuaciones (C.21-7) y (C.21-8).	
f_c	347 kg/cm ²		
f_y	4282.8 kg/cm ²		
separación máxima C.21-6.4.3	12.5 cm		
Separación asignada	12.0 cm		
bcx	91 cm	$A_{sh} = 0.3 \frac{s_b c f'_c}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right]$	
bcy	42 cm		
A_g	5000.0 cm ²		
A_{ch}	3822.0 cm ²	$A_{sh} = 0.09 \frac{s_b c f'_c}{f_{yt}}$	
Ash.x (C.21-7)	8.2 cm ²	Ash.y (C.21-7)	3.8 cm ²
Ash.x (C.21-8)	8.0 cm ²	Ash.y (C.21-8)	3.7 cm ²
Ash.x. Requerido	8.17 cm ²	Ash.y. Requerido	3.77 cm ²
N° ganchos usados sentido (x)	5	N° ganchos usados sentido (y)	1
Diámetro gancho sentido (x)	Gancho#4	Diámetro gancho sentido (y)	Gancho#4
Separación de ganchos en (x)	12.0 cm	Separación de ganchos en (y)	12.0 cm
Asv. adicional ganchos en (x)	6.45 cm ²	Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado	E#4	Diámetro del estribo usado	E#4
Asv.estribo: 2 ramas estribo cerrado	2.58 cm ²	Asv.estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv (x): Asv.estribo+Asv.gancho (x)	9.03 cm ²	Asv (y): Asv.estribo+Asv.gancho (y)	3.87 cm ²
Ash.x. Requerido	8.17 cm ²	Ash.y. Requerido	3.77 cm ²
Asv (x) > Ash.x.Requerido	Cumple	Asv (y) > Ash.y.Requerido	Cumple
RESUMEN			
COLUMNA RECTANGULAR 100*50			
Estribo cerrado	E#4		
S1: Separación estribos	12 cm		
Ganchos suplementarios lado largo			
Cantidad Requerida	5		
Diámetro gancho	Gancho#4		
Separación	12 cm		
Ganchos suplementarios lado corto			
Cantidad Requerida	1		
Diámetro gancho	Gancho#4		
Separación	12 cm		

COLUMNA RECTANGULAR 135*50



Sección: 135 x 50
Ast 32#8

Ag 6750 cm²
p.min 0.01
p.max 0.040
Ast min 67.5 cm²
Ast max 270.0 cm²
b.min 50 cm

Ast 32#8
Ast 163 cm²
Ast/Asmin 2.42 > 1.0 OK
L max 5 m

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
Lado largo: lw 135 cm
Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro⁽¹⁾

Altura libre del segmento vertical de muro / longitud del segmento vertical de muro (h _w /ℓ _w)	Longitud del segmento vertical de muro / Espesor del muro (ℓ _w /b _w)		
	ℓ _w /b _w ≤ 2.5	2.5 < ℓ _w /b _w ≤ 6	ℓ _w /b _w > 6
h _w /ℓ _w < 2	Muro	Muro	Muro
h _w /ℓ _w ≥ 2	El machón de muro debe cumplir los requisitos de diseño de columnas. véase 18.10.8.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos. véase 18.10.8.1	Muro

⁽¹⁾ h_w es la altura libre, ℓ_w es la longitud horizontal, y b_w es el espesor del alma del segmento de muro

$$\begin{aligned} (h_w/\ell_w) &= 3.7 \\ (h_w/\ell_w) &\geq 2 \\ (\ell_w/b_w) &= 2.7 \\ 2.5 < (\ell_w/b_w) &< 6.0 \end{aligned}$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 - EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

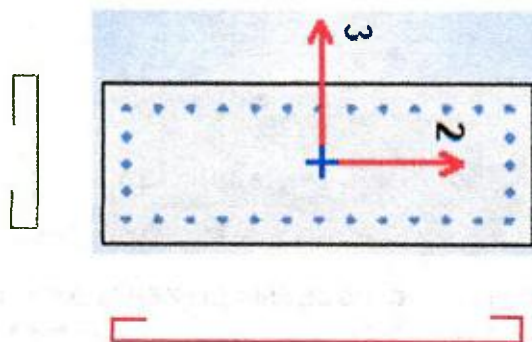
a) en elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

$$\frac{K \cdot l}{r} < 22 \text{ (C.10-6)} \Rightarrow \frac{K \cdot l}{r_x} = 6.43 < 22 \text{ OK}$$

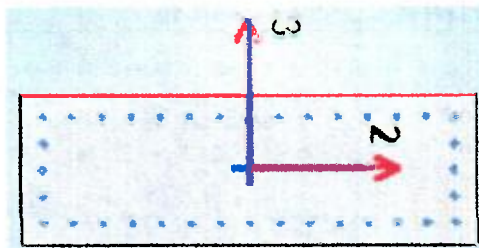
$$\frac{K \cdot l}{r_y} = 17.36 < 22 \text{ OK}$$

Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

REVISION CORTANTE C.21.6.4.4 - NSR-10			
REVISION CORTANTE			
COLUMNA RECTANGULAR 135*50		(b) El área total de la seccion transversal del refuerzo de estribos cerrados de confinamiento rectangulares, A_{ch} , no debe ser menor que la requerida por las ecuaciones (C 21-7) y (C 21-8)	
f_c	347 kg/cm ²		
f_y	4282.8 kg/cm ²		
separación máxima C.21-6.4.3	12.5 cm		
Separación asignada	12.0 cm	$A_{sh} = 0.3 \frac{s_b f_c'}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right]$ (C.21-7)	
bcx	124 cm		
bcy	42.5 cm		
A_g	6750.0 cm ²	$A_{ch} = 0.09 \frac{s_b f_c'}{f_{yt}}$ (C.21-8)	
A_{ch}	5270.0 cm ²		
Ash.x (C.21-7)		Ash.y (C.21-7)	3.5 cm ²
Ash.x (C.21-8)		Ash.y (C.21-8)	3.7 cm ²
Ash.x. Requerido		Ash.y. Requerido	3.72 cm ²
N° ganchos usados sentido (x)		N° ganchos usados sentido (y)	1
Diámetro gancho sentido (x)		Diámetro gancho sentido (y)	Gancho#4
Separación de ganchos en (x)		Separación de ganchos en (y)	12.0 cm
Asv. adicional ganchos en (x)		Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado		Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado		Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(x): Asv. estribo+Asv. gancho (x)		Asv(y): Asv. estribo+Asv. gancho (y)	3.87 cm ²
Ash.x. Requerido		Ash.y. Requerido	3.72 cm ²
Asv (x) > Ash.x.Requerido		Asv (y) > Ash.y.Requerido	Cumple
Cumple			
RESUMEN			
COLUMNA RECTANGULAR 135*50			
Estribo cerrado		E#4	
S1: Separación estribos		12 cm	
Ganchos suplementarios lado largo			
Cantidad Requerida		6	
Diámetro gancho		Gancho#4	
Separación		12 cm	
Ganchos suplementarios lado corto			
Cantidad Requerida		1	
Diámetro gancho		Gancho#4	
Separación		12 cm	



COLUMNA RECTANGULAR 150x50



Sección: 150 x 50
Refuerzo: Ast 36#8

Ag	7500 cm ²
p.min	0.01
p.max	0.040
Ast min	75.0 cm ²
Ast max	300.0 cm ²
b.min	50 cm
Ast	36#8
Ast	184 cm ²
Ast/Asmin	2.45 > 1,0 ok
L. max	5 m

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
Lado largo: lw 150 cm
Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro⁽¹⁾

Altura libre del segmento vertical de muro / longitud del segmento vertical de muro (h_w/ℓ_w)	Longitud del segmento vertical de muro / Espesor del muro (ℓ_w/b_w)		
	$\ell_w/b_w \leq 2.5$	$2.5 < \ell_w/b_w \leq 6$	$\ell_w/b_w > 6$
$h_w/\ell_w \leq 2$	Muro	Muro	Muro
$h_w/\ell_w \geq 2$	El machón de muro debe cumplir los requisitos de diseño de columnas, véase 18.10.8.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos, véase 18.10.8.1	Muro

⁽¹⁾ h_w es la altura libre, ℓ_w es la longitud horizontal, y b_w es el espesor del alma del segmento de muro

$$\begin{aligned} (h_w/\ell_w) &= 3.3 \\ (h_w/\ell_w) &\geq 2 \\ (\ell_w/b_w) &= 3.0 \\ 2.5 * (\ell_w/b_w) &< 6.0 \end{aligned}$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

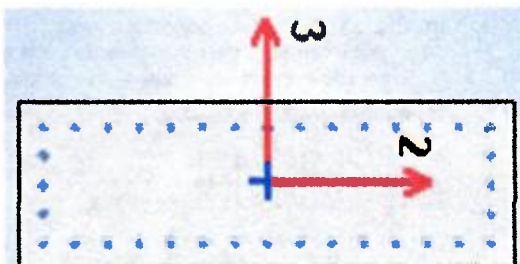
C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

- a) en elementos sometidos a compresion no arriostrados contra desplazamientos laterales cuando:

$$\frac{K * l}{r} < 22 \quad (\text{C.10} - 6) \quad \frac{K * l}{r_x} = 5.79 < 22 \text{ OK}$$

$$\frac{K * l}{r_y} = 17.36 < 22 \text{ OK}$$

Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

COLUMNA RECTANGULAR 150x50			
		Ag	7500 cm ²
		p.min	0.01
		p.max	0.040
		Ast min	75.0 cm ²
		Ast max	300.0 cm ²
		b.min	50 cm
		Ast	36#8
		Ast	184 cm ²
		Ast/Asmin	2.45 > 1,0 ok
		L. max	5 m
Sección: 150 x 50 Refuerzo: Ast 36#8			
C.21.6.4 — Refuerzo transversal C.21.6.4.1 — El refuerzo transversal en las cantidades que se especifican en C.21.6.4.2 hasta C.21.6.4.4, debe suministrarse en una longitud ℓ_o medida desde cada cara del nudo y a ambos lados de cualquier sección donde pueda ocurrir fluencia por flexión como resultado de desplazamientos laterales inelásticos del pórtico. La longitud ℓ_o no debe ser menor que la mayor de (a), (b) y (c): (a) La altura del elemento en la cara del nudo o en la sección donde puede ocurrir fluencia por flexión. (b) Un sexto de la luz libre del elemento, y (c) 450 mm.		SEPARACION ZONA CONFINADA C.21.6.4.3 — La separación del refuerzo transversal a lo largo del eje longitudinal del elemento no debe exceder la menor de (a), (b), y (c): (a) La cuarta parte de la dimensión mínima del elemento. (b) Seis veces el diámetro de la barra de refuerzo longitudinal menor, y (c) s_o , según lo definido en la ecuación (C.21-5).	
(a) 1.50 m (b) 0.83 m (c) 0.45 m Lo: Long. Confinamiento 1.50 m		$s_o = 100 + \left(\frac{350 - h_x}{3} \right) \quad (C.21-5)$ El valor de s_o no debe ser mayor a 150 mm y no es necesario tomarlo menor a 100 mm.	
SEPARACIÓN ZONA NO CONFINADA C.7.10.5.2 — El espaciamiento vertical de los estribos no debe exceder 16 diámetros de barra longitudinal, 48 diámetros de barra o alambre de los estribos, o la menor dimensión del elemento sometido a compresión.		a) B*1/4 12.50 cm b) 6*db 15.24 cm $s_o = 100 + \left(\frac{350 - h_x}{3} \right) = 19.67 \text{ cm}$ c) So 15.0 cm	
16*db 25.44 cm 48*db.estribo 45.6 cm bc 50.0 cm Separación 25.44 cm		Separación máxima 12.50 cm	

REVISION CORTANTE C.21.6.4.4 - NSR-10

REVISION CORTANTE

COLUMNA RECTANGULAR 150x50

f_c	347 kg/cm ²
f_y	4282.8 kg/cm ²
separación máxima C.21-6.4.3	12.5 cm
Separación asignada	12.0 cm
bcx	141 cm
bcy	42 cm
A_g	7500.0 cm ²
A_{ch}	5922.0 cm ²

(b) El área total de la sección transversal del refuerzo de estribos cerrados de confinamiento rectangulares. A_{ch} , no debe ser menor que la requerida por las ecuaciones (C.21-7) y (C.21-8).

$$A_{ch} = 0.3 \frac{s_b f'_c}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right] \quad (C.21-7)$$

$$A_{ch} = 0.09 \frac{s_b f'_c}{f_{yt}} \quad (C.21-8)$$

Ash.x (C.21-7)	10.9 cm ²
Ash.x (C.21-8)	12.3 cm ²

Ash.y (C.21-7)	3.3 cm ²
Ash.y (C.21-8)	3.7 cm ²

Ash.x. Requerido 12.33 cm²

Ash.y. Requerido 3.67 cm²

Nº ganchos usados sentido (x)	8
Diámetro gancho sentido (x)	G1/4
Separación de ganchos en (x)	12.0 cm
Asv. adicional ganchos en (x)	10.32 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(x): Asv. estribo+Asv. gancho (x)	12.9 cm ²
Ash.x. Requerido	12.33 cm ²

Nº ganchos usados sentido (y)	1
Diámetro gancho sentido (y)	G1/4
Separación de ganchos en (y)	12.0 cm
Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(y): Asv. estribo+Asv. gancho (y)	3.87 cm ²
Ash.y. Requerido	3.67 cm ²

Asv (x) > Ash.x.Requerido Cumple

Asv (y) > Ash.y.Requerido Cumple

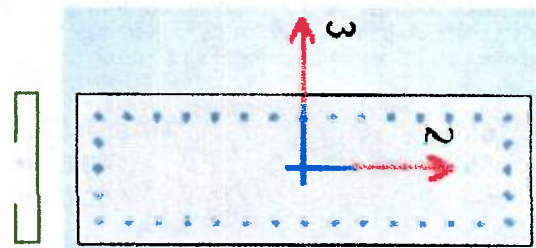
RESUMEN

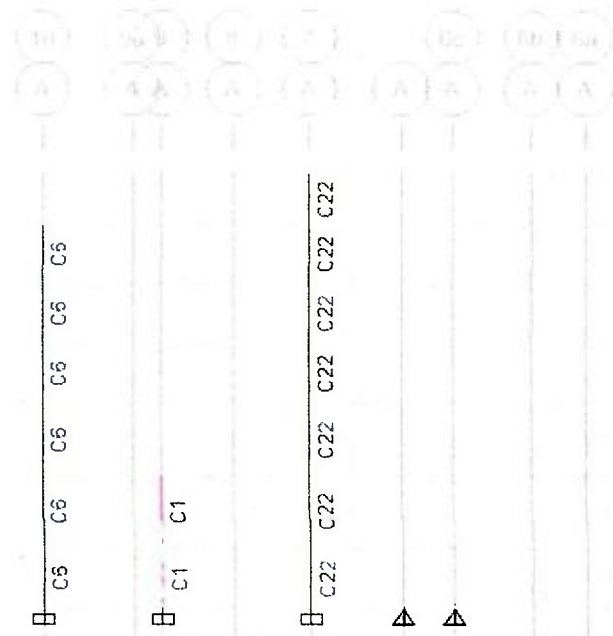
COLUMNA RECTANGULAR 150x50

Estribo cerrado	E#4
S1: Separación estribos	12 cm

Ganchos suplementarios lado largo	
Cantidad Requerida	8
Diámetro gancho	G#4
Separación	12 cm

Ganchos suplementarios lado corto	
Cantidad Requerida	1
Diámetro gancho	G#4
Separación	12.0 cm





Elevation View - A Column P-M Interaction Ratios (ACI 318-14)



Figura 38 Label e índice de sobre esfuerzo en columnas del eje A, edificio A.

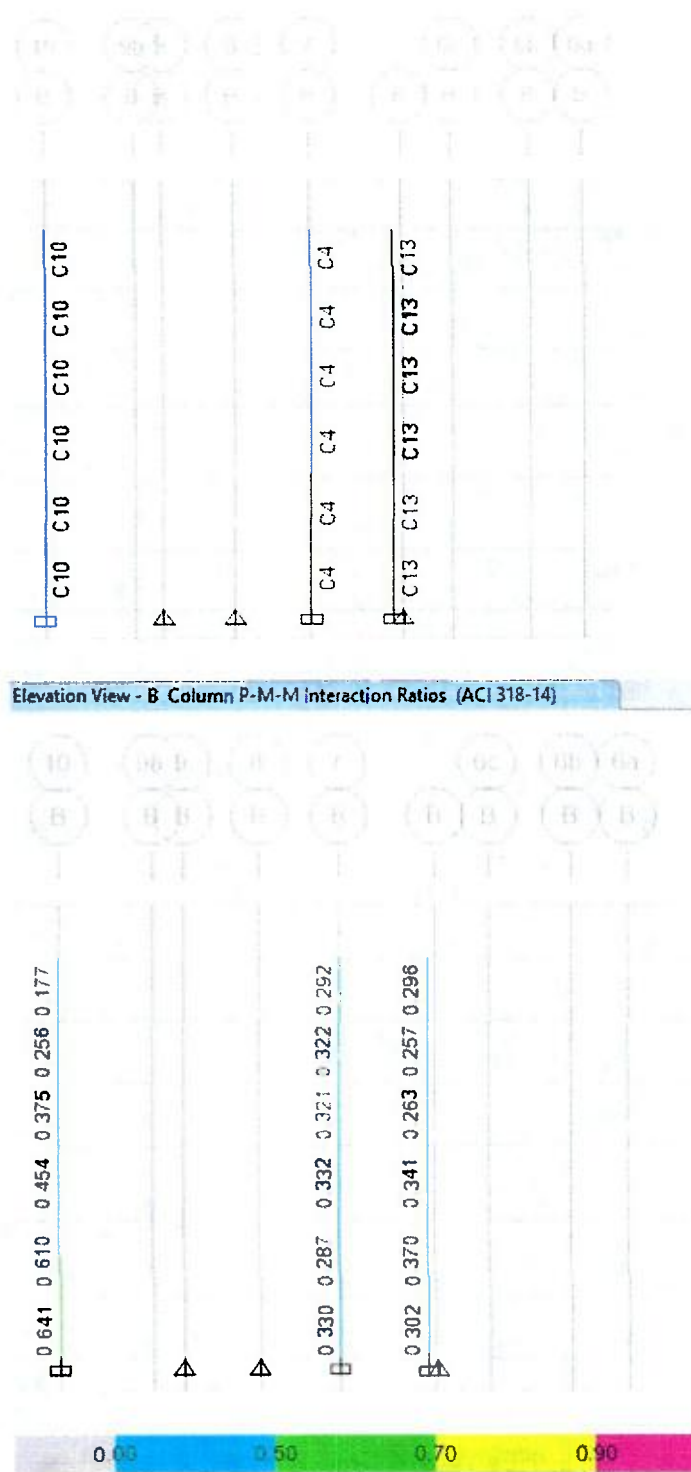


Figura 39 Label e índice de sobre esfuerzo en columnas del eje B, edificio A

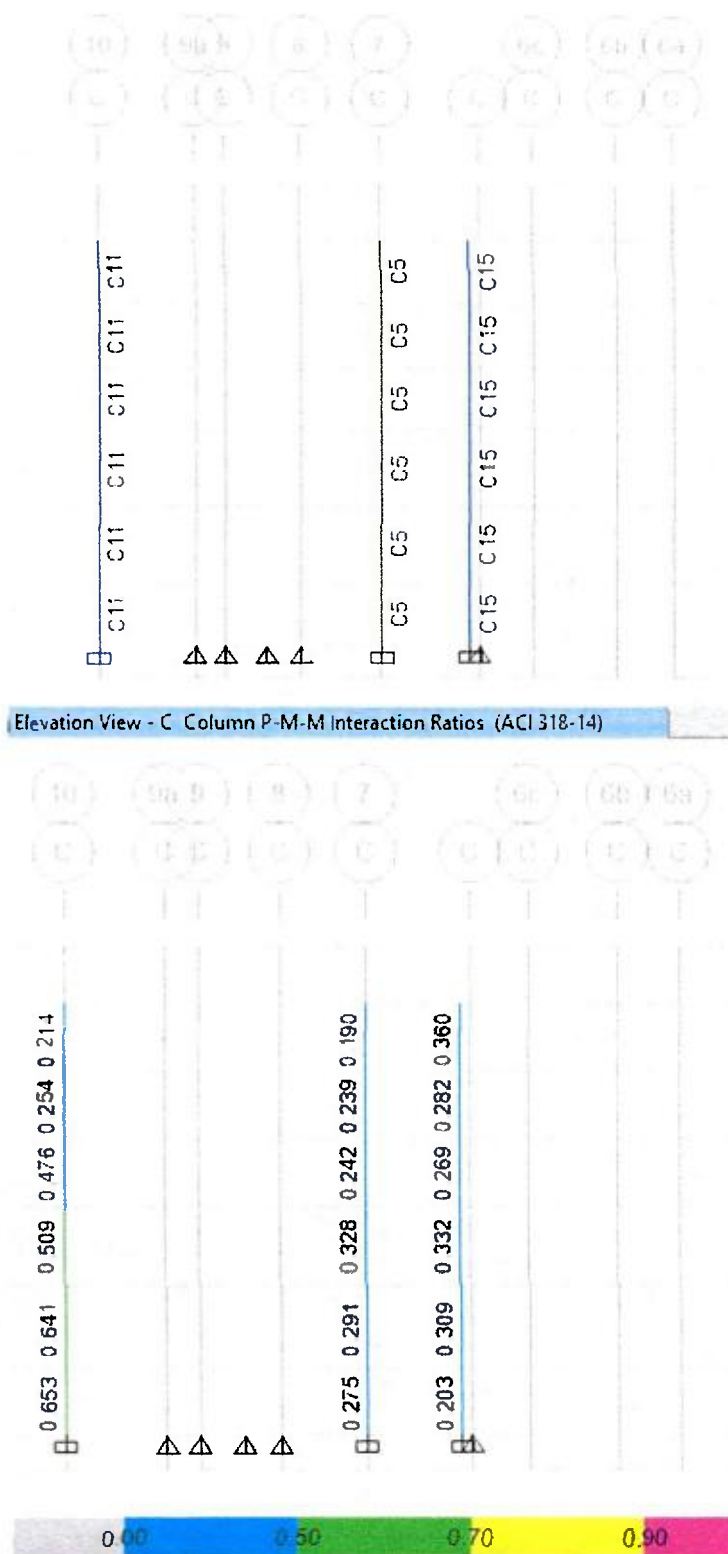


Figura 40 Label e índice de sobre esfuerzo en columnas del eje C, edificio A

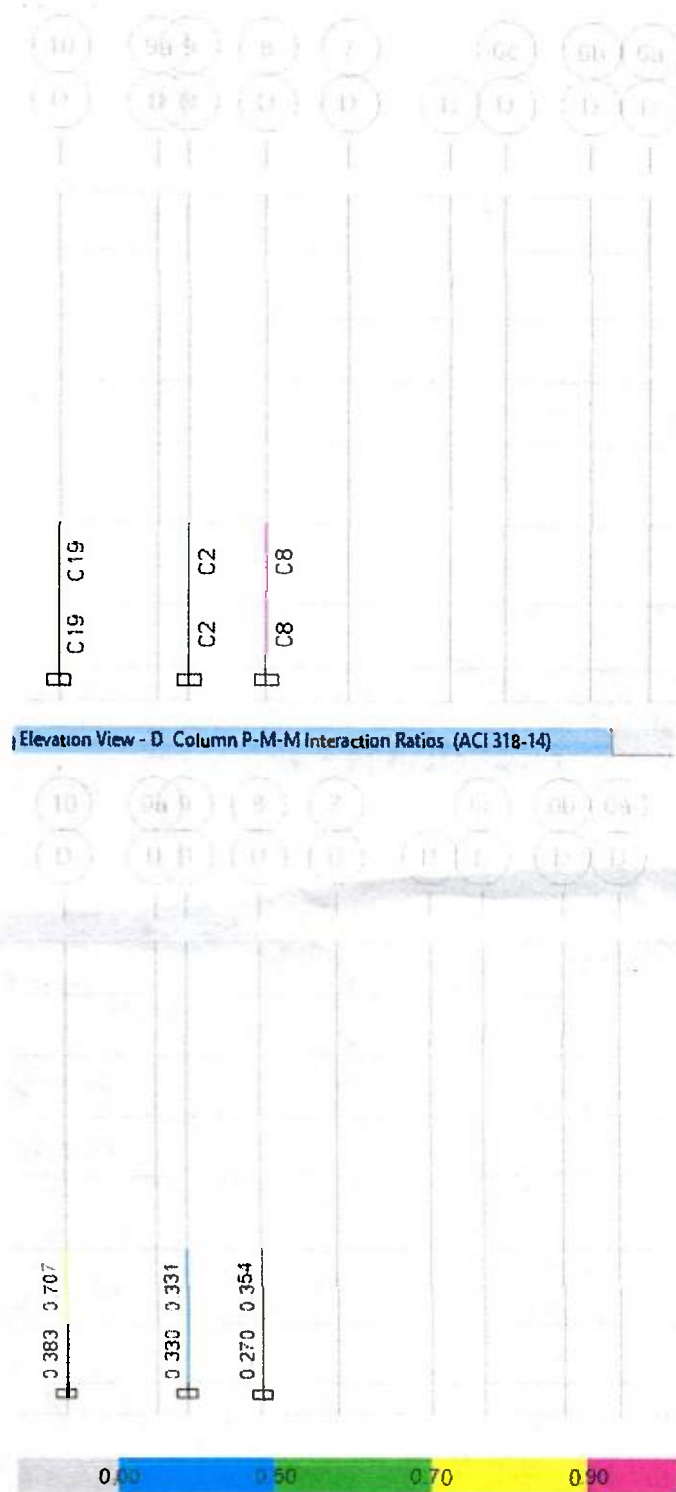


Figura 42 Label e índice de sobre esfuerzo en columnas del eje D edificio A

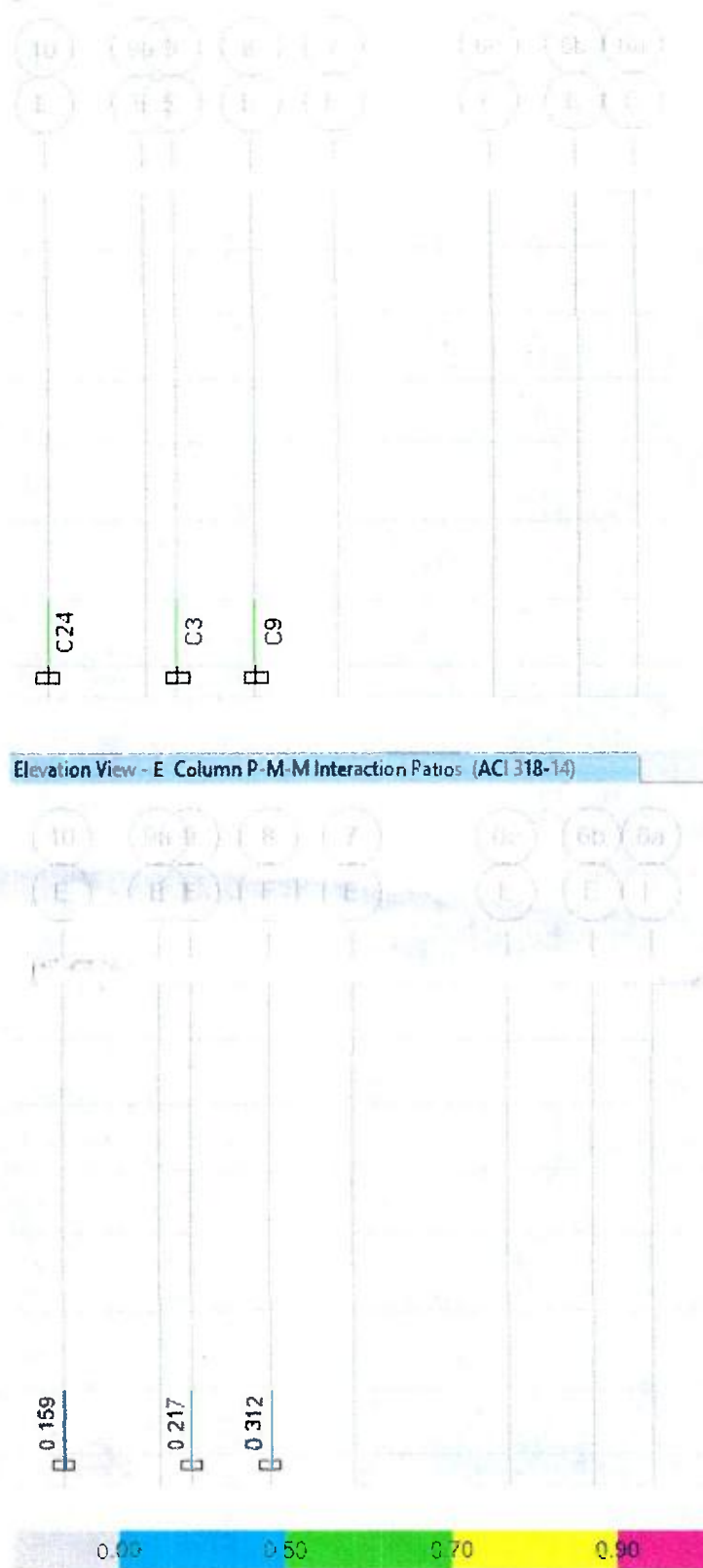


Figura 43 Label e índice de sobre esfuerzo en columnas del eje E, edificio A

Tabla 26 Índice de sobre esfuerzo en columnas Edificio A ejes (6c a 10)**TABLE: Concrete Column Summary - ACI 318-14**

Story	Label	Unique Name	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo
N+24.30	C22	1114	COL150X50	0	Check	0.121	B.2.4.5-1
N+24.30	C22	1114	COL150X50	105	Check	0.069	B.2.4.5-1
N+24.30	C22	1114	COL150X50	210	Check	0.052	B.2.4.5-8
N+21.30	C22	6525	COL150X50	0	Check	0.166	B.2.4.5-8
N+21.30	C22	6525	COL150X50	130	Check	0.076	B.2.4.3-1
N+21.30	C22	6525	COL150X50	260	Check	0.101	B.2.4.5-8
N+21.30	C4	6521	COL150X50	0	Check	0.292	B.2.4.5-1
N+21.30	C4	6521	COL150X50	130	Check	0.055	B.2.4.3-4
N+21.30	C4	6521	COL150X50	260	Check	0.22	B.2.4.5-1
N+21.30	C5	6522	COL150X50	0	Check	0.19	B.2.4.5-1
N+21.30	C5	6522	COL150X50	130	Check	0.036	B.2.4.5-2
N+21.30	C5	6522	COL150X50	260	Check	0.184	B.2.4.5-8
N+21.30	C6	6523	COL150X50	0	Check	0.243	B.2.4.5-1
N+21.30	C6	6523	COL150X50	130	Check	0.135	B.2.4.3-1
N+21.30	C6	6523	COL150X50	260	Check	0.166	B.2.4.5-1
N+21.30	C10	6524	COL150X50	0	Check	0.177	B.2.4.5-1
N+21.30	C10	6524	COL150X50	130	Check	0.112	B.2.4.3-1
N+21.30	C10	6524	COL150X50	260	Check	0.122	B.2.4.5-8
N+21.30	C11	6943	COL150X50	0	Check	0.214	B.2.4.5-1
N+21.30	C11	6943	COL150X50	130	Check	0.119	B.2.4.3-1
N+21.30	C11	6943	COL150X50	260	Check	0.155	B.2.4.5-1
N+21.30	C12	6945	COL150X50	0	Check	0.165	B.2.4.5-1
N+21.30	C12	6945	COL150X50	130	Check	0.069	B.2.4.2-1
N+21.30	C12	6945	COL150X50	260	Check	0.177	B.2.4.5-1
N+21.30	C13	1220	COL150X50	0	Check	0.187	B.2.4.5-1
N+21.30	C13	1220	COL150X50	175	Check	0.098	B.2.4.3-4
N+21.30	C13	1220	COL150X50	350	Check	0.296	B.2.4.5-1
N+21.30	C15	1234	COL150X50	0	Check	0.222	B.2.4.5-1
N+21.30	C15	1234	COL150X50	175	Check	0.081	B.2.4.3-4
N+21.30	C15	1234	COL150X50	350	Check	0.36	B.2.4.5-1
N+17.65	C22	5205	COL150X50	0	Check	0.206	B.2.4.5-8
N+17.65	C22	5205	COL150X50	130	Check	0.142	B.2.4.5-8
N+17.65	C22	5205	COL150X50	260	Check	0.158	B.2.4.5-8
N+17.65	C4	5175	COL150X50	0	Check	0.322	B.2.4.5-1
N+17.65	C4	5175	COL150X50	130	Check	0.104	B.2.4.5-1
N+17.65	C4	5175	COL150X50	260	Check	0.176	B.2.4.5-1
N+17.65	C5	5202	COL150X50	0	Check	0.239	B.2.4.5-1
N+17.65	C5	5202	COL150X50	130	Check	0.08	B.2.4.5-1
N+17.65	C5	5202	COL150X50	260	Check	0.15	B.2.4.5-8
N+17.65	C6	5203	COL150X50	0	Check	0.315	B.2.4.5-1
N+17.65	C6	5203	COL150X50	130	Check	0.268	B.2.4.3-1
N+17.65	C6	5203	COL150X50	260	Check	0.263	B.2.4.3-1
N+17.65	C10	5204	COL150X50	0	Check	0.256	B.2.4.5-1
N+17.65	C10	5204	COL150X50	130	Check	0.233	B.2.4.3-1
N+17.65	C10	5204	COL150X50	260	Check	0.231	B.2.4.3-1
N+17.65	C11	6191	COL150X50	0	Check	0.254	B.2.4.5-1
N+17.65	C11	6191	COL150X50	130	Check	0.248	B.2.4.3-1
N+17.65	C11	6191	COL150X50	260	Check	0.246	B.2.4.3-1
N+17.65	C12	6193	COL150X50	0	Check	0.23	B.2.4.5-1
N+17.65	C12	6193	COL150X50	130	Check	0.125	B.2.4.5-1

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo
N+17.65	C12	6193	COL150X50	260	Check	0.113	B.2.4.5-1
N+17.65	C13	1222	COL150X50	0	Check	0.248	B.2.4.5-1
N+17.65	C13	1222	COL150X50	175	Check	0.134	B.2.4.3-1
N+17.65	C13	1222	COL150X50	350	Check	0.257	B.2.4.5-1
N+17.65	C15	1236	COL150X50	0	Check	0.26	B.2.4.5-1
N+17.65	C15	1236	COL150X50	175	Check	0.077	B.2.4.5-8
N+17.65	C15	1236	COL150X50	350	Check	0.282	B.2.4.5-8
N+14.00	C22	4097	COL150X50	0	Check	0.286	B.2.4.5-8
N+14.00	C22	4097	COL150X50	130	Check	0.217	B.2.4.5-8
N+14.00	C22	4097	COL150X50	260	Check	0.228	B.2.4.5-8
N+14.00	C4	4093	COL150X50	0	Check	0.321	B.2.4.5-1
N+14.00	C4	4093	COL150X50	130	Check	0.139	B.2.4.5-1
N+14.00	C4	4093	COL150X50	260	Check	0.174	B.2.4.5-1
N+14.00	C5	4094	COL150X50	0	Check	0.242	B.2.4.5-8
N+14.00	C5	4094	COL150X50	130	Check	0.115	B.2.4.5-8
N+14.00	C5	4094	COL150X50	260	Check	0.146	B.2.4.5-8
N+14.00	C6	4095	COL150X50	0	Check	0.447	B.2.4.5-1
N+14.00	C6	4095	COL150X50	130	Check	0.406	B.2.4.3-1
N+14.00	C6	4095	COL150X50	260	Check	0.405	B.2.4.3-1
N+14.00	C10	4096	COL150X50	0	Check	0.375	B.2.4.3-1
N+14.00	C10	4096	COL150X50	130	Check	0.365	B.2.4.3-1
N+14.00	C10	4096	COL150X50	260	Check	0.364	B.2.4.3-1
N+14.00	C11	1124	COL150X50	0	Check	0.476	B.2.4.5-1
N+14.00	C11	1124	COL150X50	130	Check	0.408	B.2.4.3-1
N+14.00	C11	1124	COL150X50	260	Check	0.407	B.2.4.3-1
N+14.00	C12	4717	COL150X50	0	Check	0.23	B.2.4.5-1
N+14.00	C12	4717	COL150X50	130	Check	0.185	B.2.4.2-1
N+14.00	C12	4717	COL150X50	260	Check	0.202	B.2.4.5-1
N+14.00	C13	1224	COL150X50	0	Check	0.263	B.2.4.5-1
N+14.00	C13	1224	COL150X50	175	Check	0.195	B.2.4.2-1
N+14.00	C13	1224	COL150X50	350	Check	0.255	B.2.4.5-8
N+14.00	C15	1238	COL150X50	0	Check	0.267	B.2.4.5-1
N+14.00	C15	1238	COL150X50	175	Check	0.12	B.2.4.5-8
N+14.00	C15	1238	COL150X50	350	Check	0.269	B.2.4.5-8
N+10.35	C22	2987	COL150X50	0	Check	0.324	B.2.4.5-8
N+10.35	C22	2987	COL150X50	167.5	Check	0.304	B.2.4.5-8
N+10.35	C22	2987	COL150X50	335	Check	0.311	B.2.4.5-8
N+10.35	C4	2981	COL150X50	0	Check	0.332	B.2.4.5-1
N+10.35	C4	2981	COL150X50	167.5	Check	0.183	B.2.4.5-2
N+10.35	C4	2981	COL150X50	335	Check	0.209	B.2.4.5-1
N+10.35	C5	2983	COL150X50	0	Check	0.328	B.2.4.5-8
N+10.35	C5	2983	COL150X50	167.5	Check	0.17	B.2.4.5-8
N+10.35	C5	2983	COL150X50	335	Check	0.186	B.2.4.5-8
N+10.35	C6	2984	COL150X50	0	Check	0.576	B.2.4.2-1
N+10.35	C6	2984	COL150X50	167.5	Check	0.549	B.2.4.2-1
N+10.35	C6	2984	COL150X50	335	Check	0.55	B.2.4.2-1
N+10.35	C10	2986	COL150X50	0	Check	0.454	B.2.4.2-1
N+10.35	C10	2986	COL150X50	167.5	Check	0.446	B.2.4.2-1
N+10.35	C10	2986	COL150X50	335	Check	0.45	B.2.4.2-1
N+10.35	C11	3708	COL150X50	0	Check	0.509	B.2.4.2-1
N+10.35	C11	3708	COL150X50	167.5	Check	0.5	B.2.4.2-1
N+10.35	C11	3708	COL150X50	335	Check	0.505	B.2.4.2-1

150

TABLE: Concrete Column Summary - ACI 318-14

Story	Label	Unique Name	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo
N+10.35	C12	3710	COL150X50	0	Check	0.328	B.2.4.5-1
N+10.35	C12	3710	COL150X50	167.5	Check	0.235	B.2.4.2-1
N+10.35	C12	3710	COL150X50	335	Check	0.222	B.2.4.2-1
N+10.35	C13	1226	COL150X50	0	Check	0.341	B.2.4.5-8
N+10.35	C13	1226	COL150X50	212.5	Check	0.27	B.2.4.2-1
N+10.35	C13	1226	COL150X50	425	Check	0.307	B.2.4.5-8
N+10.35	C15	1240	COL150X50	0	Check	0.332	B.2.4.5-8
N+10.35	C15	1240	COL150X50	212.5	Check	0.165	B.2.4.5-8
N+10.35	C15	1240	COL150X50	425	Check	0.28	B.2.4.5-8
N+6.10	C22	5519	COL150X50	0	Check	0.416	B.2.4.5-8
N+6.10	C22	5519	COL150X50	167.5	Check	0.393	B.2.4.5-8
N+6.10	C22	5519	COL150X50	335	Check	0.394	B.2.4.5-8
N+6.10	C4	5	COL150X50	0	Check	0.287	B.2.4.5-8
N+6.10	C4	5	COL150X50	167.5	Check	0.229	B.2.4.5-2
N+6.10	C4	5	COL150X50	335	Check	0.227	B.2.4.5-2
N+6.10	C5	686	COL150X50	0	Check	0.291	B.2.4.5-8
N+6.10	C5	686	COL150X50	167.5	Check	0.219	B.2.4.5-8
N+6.10	C5	686	COL150X50	335	Check	0.207	B.2.4.2-1
N+6.10	C6	5515	COL150X50	0	Check	0.702	B.2.4.2-1
N+6.10	C6	5515	COL150X50	167.5	Check	0.709	B.2.4.2-1
N+6.10	C6	5515	COL150X50	335	Check	0.704	B.2.4.2-1
N+6.10	C10	5516	COL150X50	0	Check	0.604	B.2.4.2-1
N+6.10	C10	5516	COL150X50	167.5	Check	0.61	B.2.4.2-1
N+6.10	C10	5516	COL150X50	335	Check	0.6	B.2.4.2-1
N+6.10	C11	631	COL150X50	0	Check	0.639	B.2.4.2-1
N+6.10	C11	631	COL150X50	167.5	Check	0.633	B.2.4.2-1
N+6.10	C11	631	COL150X50	335	Check	0.641	B.2.4.2-1
N+6.10	C12	2644	COL150X50	0	Check	0.379	B.2.4.5-1
N+6.10	C12	2644	COL150X50	167.5	Check	0.292	B.2.4.5-8
N+6.10	C12	2644	COL150X50	335	Check	0.295	B.2.4.5-1
N+6.10	C13	1228	COL150X50	0	Check	0.37	B.2.4.5-8
N+6.10	C13	1228	COL150X50	212.5	Check	0.351	B.2.4.5-8
N+6.10	C13	1228	COL150X50	425	Check	0.35	B.2.4.2-1
N+6.10	C15	1242	COL150X50	0	Check	0.309	B.2.4.5-8
N+6.10	C15	1242	COL150X50	212.5	Check	0.215	B.2.4.5-8
N+6.10	C15	1242	COL150X50	425	Check	0.24	B.2.4.5-8
N+6.10	C19	8	COL150X50	0	Check	0.489	B.2.4.5-1
N+6.10	C19	8	COL150X50	167.5	Check	0.388	B.2.4.5-1
N+6.10	C19	8	COL150X50	335	Check	0.707	B.2.4.5-1
N+6.10	C8	7	COL135X50	0	Check	0.354	B.2.4.5-1
N+6.10	C8	7	COL135X50	167.5	Check	0.209	B.2.4.5-1
N+6.10	C8	7	COL135X50	335	Check	0.207	B.2.4.5-1
N+6.10	C1	17	COL135X50	0	Check	0.317	B.2.4.5-8
N+6.10	C1	17	COL135X50	167.5	Check	0.247	B.2.4.2-1
N+6.10	C1	17	COL135X50	335	Check	0.447	B.2.4.5-8
N+6.10	C2	19	COL135X50	0	Check	0.331	B.2.4.5-1
N+6.10	C2	19	COL135X50	167.5	Check	0.263	B.2.4.2-1
N+6.10	C2	19	COL135X50	335	Check	0.293	B.2.4.5-1
N+1.85	C22	670	COL150X50	0	Check	0.534	B.2.4.5-8
N+1.85	C22	670	COL150X50	130	Check	0.484	B.2.4.5-8
N+1.85	C22	670	COL150X50	260	Check	0.473	B.2.4.5-8
N+1.85	C4	675	COL150X50	0	Check	0.33	B.2.4.5-8

TABLE: Concrete Column Summary - ACI 318-14

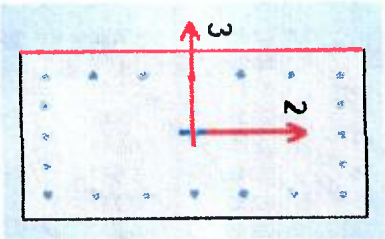
Story	Label	Unique Name	Design Section	Station cm	Design/Check	PMM Ratio	PMM Combo
N+1.85	C4	675	COL150X50	130	Check	0.285	B.2.4.5-8
N+1.85	C4	675	COL150X50	260	Check	0.276	B.2.4.5-2
N+1.85	C5	676	COL150X50	0	Check	0.275	B.2.4.5-8
N+1.85	C5	676	COL150X50	130	Check	0.255	B.2.4.5-8
N+1.85	C5	676	COL150X50	260	Check	0.245	B.2.4.2-1
N+1.85	C6	637	COL150X50	0	Check	0.75	B.2.4.2-1
N+1.85	C6	637	COL150X50	130	Check	0.743	B.2.4.2-1
N+1.85	C6	637	COL150X50	260	Check	0.741	B.2.4.2-1
N+1.85	C10	646	COL150X50	0	Check	0.641	B.2.4.2-1
N+1.85	C10	646	COL150X50	130	Check	0.635	B.2.4.2-1
N+1.85	C10	646	COL150X50	260	Check	0.633	B.2.4.2-1
N+1.85	C11	630	COL150X50	0	Check	0.653	B.2.4.2-1
N+1.85	C11	630	COL150X50	130	Check	0.643	B.2.4.2-1
N+1.85	C11	630	COL150X50	260	Check	0.641	B.2.4.2-1
N+1.85	C12	1131	COL150X50	0	Check	0.38	B.2.4.2-1
N+1.85	C12	1131	COL150X50	130	Check	0.378	B.2.4.2-1
N+1.85	C12	1131	COL150X50	260	Check	0.381	B.2.4.2-1
N+1.85	C13	1229	COL150X50	0	Check	0.302	B.2.4.5-8
N+1.85	C13	1229	COL150X50	175	Check	0.252	B.2.4.5-8
N+1.85	C13	1229	COL150X50	350	Check	0.248	B.2.4.2-1
N+1.85	C15	1243	COL150X50	0	Check	0.203	B.2.4.5-8
N+1.85	C15	1243	COL150X50	175	Check	0.17	B.2.4.5-8
N+1.85	C15	1243	COL150X50	350	Check	0.155	B.2.4.5-8
N+1.85	C19	650	COL150X50	0	Check	0.383	B.2.4.5-1
N+1.85	C19	650	COL150X50	130	Check	0.379	B.2.4.2-1
N+1.85	C19	650	COL150X50	260	Check	0.375	B.2.4.2-1
N+1.85	C21	1257	COL 100X50	0	Check	0.103	B.2.4.7-8
N+1.85	C21	1257	COL 100X50	175	Check	0.033	B.2.4.5-8
N+1.85	C21	1257	COL 100X50	350	Check	0.117	B.2.4.5-8
N+1.85	C24	84	COL 100X50	0	Check	0.159	B.2.4.7-1
N+1.85	C24	84	COL 100X50	130	Check	0.075	B.2.4.5-1
N+1.85	C24	84	COL 100X50	260	Check	0.093	B.2.4.5-1
N+1.85	C25	4364	COL 100X50	0	Check	0.097	B.2.4.5-8
N+1.85	C25	4364	COL 100X50	175	Check	0.06	B.2.4.5-8
N+1.85	C25	4364	COL 100X50	350	Check	0.121	B.2.4.5-8
N+1.85	C3	12	COL 100X50	0	Check	0.217	B.2.4.5-2
N+1.85	C3	12	COL 100X50	130	Check	0.052	B.2.4.5-1
N+1.85	C3	12	COL 100X50	260	Check	0.133	B.2.4.5-1
N+1.85	C8	11	COL135X50	0	Check	0.27	B.2.4.5-1
N+1.85	C8	11	COL135X50	130	Check	0.265	B.2.4.2-1
N+1.85	C8	11	COL135X50	260	Check	0.266	B.2.4.2-1
N+1.85	C1	27	COL135X50	0	Check	0.328	B.2.4.2-1
N+1.85	C1	27	COL135X50	130	Check	0.327	B.2.4.2-1
N+1.85	C1	27	COL135X50	260	Check	0.327	B.2.4.2-1
N+1.85	C2	31	COL135X50	0	Check	0.33	B.2.4.5-1
N+1.85	C2	31	COL135X50	130	Check	0.314	B.2.4.5-1
N+1.85	C2	31	COL135X50	260	Check	0.313	B.2.4.2-1
N+1.85	C9	6	COL 100X50	0	Check	0.273	B.2.4.5-1
N+1.85	C9	6	COL 100X50	130	Check	0.133	B.2.4.5-8
N+1.85	C9	6	COL 100X50	260	Check	0.312	B.2.4.2-1

Chequeo de Nodos, Relación b/c.

Tabla 27 Reporte revisión de nudos 6/5 Viga-Columna Edificio A

TABLE: Concrete Joint Summary - ACI 318-14								
Story	Label	Design Section	B/C Major Combo	B/C Major Ratio	B/C Minor Ratio	JS Major Ratio	JS Minor Ratio	Warnings
N+24.30	C22	COL150X50	B.2.4.7-5	0.051	0.064	0.079	0.058	No Message
N+21.30	C22	COL150X50	B.2.4.7-5	0.133	0.214	0.253	0.237	No Message
N+21.30	C4	COL150X50	B.2.4.7-1	0.27	0.583	0.345	0.44	No Message
N+21.30	C5	COL150X50	B.2.4.7-5	0.313	0.642	0.394	0.474	No Message
N+21.30	C10	COL150X50	B.2.4.7-5	0.239	0.732	0.314	0.583	No Message
N+21.30	C11	COL150X50	B.2.4.7-5	0.238	0.872	0.314	0.702	No Message
N+21.30	C12	COL150X50	B.2.4.7-2	0.085	0.914	0.134	0.7	No Message
N+17.65	C22	COL150X50	B.2.4.7-5	0.126	0.232	0.254	0.276	No Message
N+17.65	C4	COL150X50	B.2.4.7-1	0.143	0.272	0.284	0.317	No Message
N+17.65	C5	COL150X50	B.2.4.7-5	0.153	0.325	0.299	0.372	No Message
N+17.65	C6	COL150X50	B.2.4.7-2	0.146	0.571	0.319	0.782	No Message
N+17.65	C10	COL150X50	B.2.4.7-5	0.094	0.414	0.194	0.535	No Message
N+17.65	C11	COL150X50	B.2.4.7-5	0.074	0.431	0.154	0.562	No Message
N+17.65	C12	COL150X50	B.2.4.7-2	0.046	0.269	0.112	0.312	No Message
N+14.00	C22	COL150X50	B.2.4.7-5	0.121	0.23	0.25	0.283	No Message
N+14.00	C4	COL150X50	B.2.4.7-1	0.142	0.271	0.288	0.323	No Message
N+14.00	C5	COL150X50	B.2.4.7-5	0.148	0.286	0.294	0.334	No Message
N+14.00	C6	COL150X50	B.2.4.7-2	0.135	0.557	0.317	0.849	No Message
N+14.00	C10	COL150X50	B.2.4.7-5	0.073	0.441	0.162	0.628	No Message
N+14.00	C11	COL150X50	B.2.4.7-5	0.055	0.459	0.121	0.666	No Message
N+14.00	C12	COL150X50	B.2.4.7-2	0.04	0.457	0.098	0.557	No Message
N+10.35	C22	COL150X50	B.2.4.7-5	0.141	0.23	0.308	0.3	No Message
N+10.35	C4	COL150X50	B.2.4.7-1	0.136	0.258	0.288	0.327	No Message
N+10.35	C5	COL150X50	B.2.4.7-5	0.15	0.273	0.312	0.335	No Message
N+10.35	C6	COL150X50	B.2.4.7-2	0.14	0.529	0.362	0.902	No Message
N+10.35	C10	COL150X50	B.2.4.7-5	0.104	0.253	0.252	0.387	No Message
N+10.35	C11	COL150X50	B.2.4.7-5	0.104	0.336	0.258	0.535	No Message
N+10.35	C12	COL150X50	B.2.4.7-2	0.059	0.249	0.155	0.311	No Message
N+6.10	C22	COL150X50	B.2.4.7-5	0.1	0.218	0.222	0.297	No Message
N+6.10	C4	COL150X50	B.2.4.7-1	0.116	0.235	0.254	0.313	No Message
N+6.10	C5	COL150X50	B.2.4.7-5	0.118	0.164	0.253	0.209	No Message
N+6.10	C10	COL150X50	B.2.4.7-5	0.052	0.387	0.134	0.656	No Message
N+6.10	C11	COL150X50	B.2.4.7-5	0.03	0.205	0.077	0.343	No Message
N+6.10	C12	COL150X50	B.2.4.7-2	0.054	0.303	0.147	0.396	No Message
N+6.10	C8	COL135X50	B.2.4.7-2	0.286	0.875	0.344	0.635	No Message
N+6.10	C2	COL135X50	B.2.4.7-2	0.212	0.83	0.265	0.642	No Message
N+1.85	C22	COL150X50	B.2.4.7-5	0.103	0.196	0.227	0.263	No Message
N+1.85	C4	COL150X50	B.2.4.7-1	0.085	0.217	0.185	0.289	No Message
N+1.85	C5	COL150X50	B.2.4.7-5	0.082	0.158	0.172	0.201	No Message
N+1.85	C6	COL150X50	B.2.4.7-2	0.027	0.143	0.089	0.252	No Message
N+1.85	C10	COL150X50	B.2.4.7-5	0.028	0.125	0.087	0.207	No Message
N+1.85	C12	COL150X50	B.2.4.7-2	0.076	0.476	0.163	0.654	No Message
N+1.85	C19	COL150X50	B.2.4.7-2	0.027	0.175	0.078	0.262	No Message
N+1.85	C24	COL 100X50	B.2.4.7-1	0.142	0.188	0.13	0.084	No Message
N+1.85	C3	COL 100X50	B.2.4.7-2	0.346	0.139	0.256	0.062	No Message
N+1.85	C8	COL135X50	B.2.4.7-2	0.122	0.231	0.237	0.266	No Message
N+1.85	C1	COL135X50	B.2.4.7-2	0.095	0.368	0.189	0.46	No Message
N+1.85	C2	COL135X50	B.2.4.7-2	0.065	0.154	0.128	0.186	No Message

Revisión Columnas Edificio B

COLUMNA RECTANGULAR 100*50			
		Ag	5000 cm ²
		p.min	0.01
		p.max	0.040
		Ast min	50.0 cm ²
		Ast max	200.0 cm ²
		b.min	50 cm
Sección: 100 x 50 Ast 28#7		Ast	28#7
		Ast	108 cm ²
		Ast/Asmin	2.17 > 1,0 OK
		L. max	5 m

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
 Lado largo: lw 100 cm
 Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro^[1]

Altura libre del segmento vertical de muro / longitud del segmento vertical de muro (h_u/ℓ_u)	Longitud del segmento vertical de muro / Espesor del muro (ℓ_u/b_u)		
	$\ell_u/b_u \leq 2.5$	$2.5 < \ell_u/b_u \leq 6$	$\ell_u/b_u > 6$
$h_u/\ell_u < 2$	Muro	Muro	Muro
$h_u/\ell_u \geq 2$	El machón de muro debe cumplir los requisitos de diseño de columnas, véase 18.10.8.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos, véase 18.10.8.1	Muro

[1] h_u es la altura libre, ℓ_u es la longitud horizontal, y b_u es el espesor del alma del segmento de muro

$$(h_u/\ell_u) = 5.0$$

$$(h_u/\ell_u) \geq 2$$

$$(\ell_u/b_u) = 2.0$$

$$(\ell_u/b_u) < 2.5$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 - EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

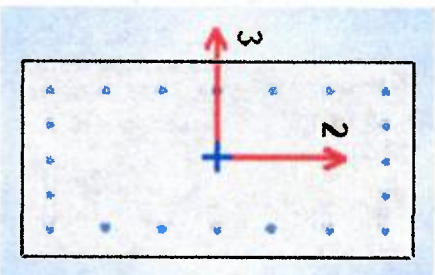
C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

a) en elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

$$\frac{K \cdot l}{r} < 22 \text{ (C.10-6)} \Rightarrow \frac{K \cdot l}{r_x} = 8.68 < 22 \text{ OK}$$

$$\frac{K \cdot l}{r_y} = 17.36 < 22 \text{ OK}$$

Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

COLUMNA RECTANGULAR 100*50			
		Ag	5000 cm ²
		p.min	0.01
		p.max	0.040
		Ast min	50.0 cm ²
		Ast max	200.0 cm ²
		b.min	50 cm
Sección: 100 x 50 Ast 28#7		Ast	28#7
		Ast	108 cm ²
		Ast/Asmin	2.17 > 1,0 OK
		L. max	5 m
C.21.6.4 — Refuerzo transversal C.21.6.4.1 — El refuerzo transversal en las cantidades que se especifican en C.21.6.4.2 hasta C.21.6.4.4, debe suministrarse en una longitud ℓ_o medida desde cada cara del nudo y a ambos lados de cualquier sección donde pueda ocurrir fluencia por flexión como resultado de desplazamientos laterales inelásticos del pórtico. La longitud ℓ_o no debe ser menor que la mayor de (a), (b) y (c): (a) La altura del elemento en la cara del nudo o en la sección donde puede ocurrir fluencia por flexión. (b) Un sexto de la luz libre del elemento, y (c) 450 mm.		SEPARACIÓN ZONA CONFINADA C.21.6.4.3 — La separación del refuerzo transversal a lo largo del eje longitudinal del elemento no debe exceder la menor de (a), (b), y (c): (a) La cuarta parte de la dimensión mínima del elemento. (b) Seis veces el diámetro de la barra de refuerzo longitudinal menor, y (c) s_o , según lo definido en la ecuación (C.21-5). $s_o = 100 + \left(\frac{350 - h_x}{3} \right) \quad (C.21-5)$ El valor de s_o no debe ser mayor a 150 mm y no es necesario tomarlo menor a 100 mm.	
a) 1 m b) 0.83 m c) 0.45 m Lo: Long. Confinamiento 1.00 m		a) B*1/4 12.50 cm b) 6*db 13.32 cm $s_o = 100 + \left(\frac{350 - h_x}{3} \right) = 19.67 \text{ cm}$ c) So 15.0 cm	
SEPARACIÓN ZONA NO CONFINADA C.7.10.5.2 — El espaciamiento vertical de los estribos no debe exceder 16 diámetros de barra longitudinal, 48 diámetros de barra o alambre de los estribos, o la menor dimensión del elemento sometido a compresión. 16*db 35.52 cm 48*db. estribo 45.6 cm bc 50.0 cm Separación 35.52 cm		Separación máxima 12.50 cm	

REVISION CORTANTE C.21.6.4.4 - NSR-10

REVISION CORTANTE

COLUMNA RECTANGULAR 100*50

f_c	347 kg/cm ²
f_y	4282.8 kg/cm ²
separación máxima C.21-6.4.3	12.5 cm
Separación asignada	12.0 cm
b _{cx}	91 cm
b _{cy}	42 cm
A _g	5000.0 cm ²
A _{ch}	3822.0 cm ²

(b) El area total de la sección transversal del refuerzo de estribos cerrados de confinamiento rectangulares. A_{ch} no debe ser menor que la requerida por las ecuaciones (C.21-7) y (C.21-8).

$$A_{ch} = 0.3 \frac{s_b f'_c}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right] \quad (C.21-7)$$

$$A_{ch} = 0.09 \frac{s_b f'_c}{f_{yt}} \quad (C.21-8)$$

Ash.x (C.21-7)	8.2 cm ²
Ash.x (C.21-8)	8.0 cm ²

Ash.y (C.21-7)	3.8 cm ²
Ash.y (C.21-8)	3.7 cm ²

Ash.x. Requerido 8.17 cm²

Ash.y. Requerido 3.77 cm²

N° ganchos usados sentido (x)	5
Diámetro gancho sentido (x)	Gancho#4
Separación de ganchos en (x)	12.0 cm
Asv. adicional ganchos en (x)	6.45 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(x): Asv. estribo + Asv. gancho (x)	9.03 cm²
Ash.x. Requerido	8.17 cm²

N° ganchos usados sentido (y)	1
Diámetro gancho sentido (y)	Gancho#4
Separación de ganchos en (y)	12.0 cm
Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(y): Asv. estribo + Asv. gancho (y)	3.87 cm²
Ash.y. Requerido	3.77 cm²

Asv (x) > Ash.x.Requerido Cumple

Asv (y) > Ash.y.Requerido Cumple

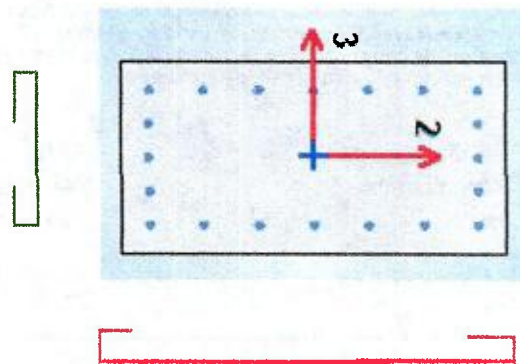
RESUMEN

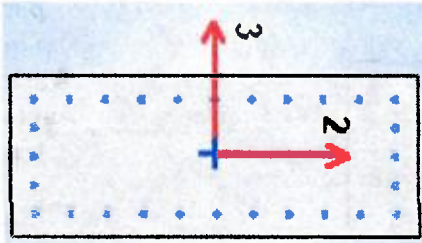
COLUMNA RECTANGULAR 100*50

Estribo cerrado E#4
S1: Separación estribos 12 cm

Ganchos suplementarios lado largo
Cantidad Requerida 5
Diámetro gancho Gancho#4
Separación 12 cm

Ganchos suplementarios lado corto
Cantidad Requerida 1
Diámetro gancho Gancho#4
Separación 12 cm



COLUMNA RECTANGULAR 125x50		
	Ag	6250 cm ²
	p.min	0.01
	p.max	0.040
	Ast min	62.5 cm ²
	Ast max	250.0 cm ²
Sección: 125 x 50 Refuerzo: Ast 28#8	b.min	50 cm
	Ast	28#8
	Ast	143 cm ²
	Ast/Asmin	2.28 > 1,0 ok
	L. max	5 m

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
 Lado largo: lw 125 cm
 Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro⁽¹⁾

Altura libre del segmento vertical de muro / longitud del segmento vertical de muro, (h _w /l _w)	Longitud del segmento vertical de muro / Espesor del muro (l _w /b _w)		
	l _w /b _w ≤ 2.5	2.5 < l _w /b _w ≤ 6	l _w /b _w > 6
h _w /l _w < 2	Muro	Muro	Muro
h _w /l _w ≥ 2	El machón de muro debe cumplir los requisitos de diseño de columnas, véase 18.10.5.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos, véase 18.10.5.1	Muro

⁽¹⁾ h_w es la altura libre, l_w es la longitud horizontal, y b_w es el espesor del alma del segmento de muro.

$$(h_w/l_w) = 4.0$$

$$(h_w/l_w) \geq 2$$

$$(l_w/b_w) = 2.5$$

$$(l_w/b_w) < 2.5$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

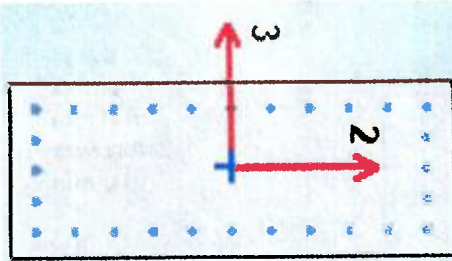
C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

a) en elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

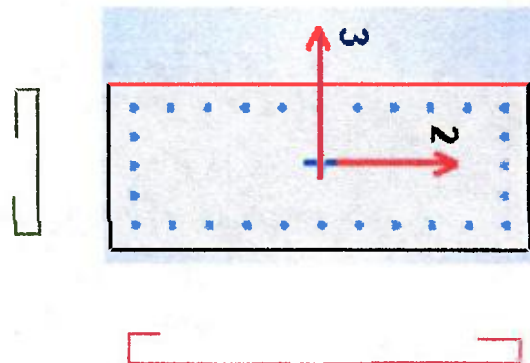
$$\frac{K \cdot l}{r} < 22 \text{ (C.10-6)} \Rightarrow \frac{K \cdot l}{r_x} = 6.94 < 22 \text{ OK}$$

$$\frac{K \cdot l}{r_y} = 17.36 < 22 \text{ OK}$$

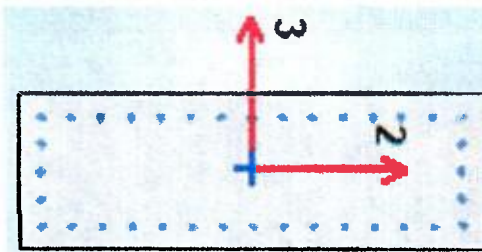
Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

COLUMNA RECTANGULAR 125x50	
	Ag 6250 cm ² p.min 0.01 p.max 0.040 Ast min 62.5 cm ² Ast max 250.0 cm ² b.min 50 cm
	Ast 28#8 Ast 143 cm ² Ast/Asmin 2.28 > 1,0 ok L. max 3.62 m
Sección: 125 x 50 Reforzo: Ast 28#8	
C.21.6.4 — Refuerzo transversal C.21.6.4.1 — El refuerzo transversal en las cantidades que se especifican en C.21.6.4.2 hasta C.21.6.4.4, debe suministrarse en una longitud ℓ_o medida desde cada cara del nudo y a ambos lados de cualquier sección donde pueda ocurrir fluencia por flexión como resultado de desplazamientos laterales inelásticos del pórtico. La longitud ℓ_o no debe ser menor que la mayor de (a), (b) y (c): (a) La altura del elemento en la cara del nudo o en la sección donde puede ocurrir fluencia por flexión. (b) Un sexto de la luz libre del elemento, y (c) 450 mm. a) 1.25 m b) 0.83 m c) 0.45 m Lo: Long. Confinamiento 1.25 m	SEPARACION ZONA CONFINADA C.21.6.4.3 — La separación del refuerzo transversal a lo largo del eje longitudinal del elemento no debe exceder la menor de (a), (b), y (c): (a) La cuarta parte de la dimensión mínima del elemento. (b) Seis veces el diámetro de la barra de refuerzo longitudinal menor, y (c) s_o, según lo definido en la ecuación (C.21-5). $s_o = 100 + \left(\frac{350 - h_x}{3} \right) \quad (C.21-5)$ El valor de s_o no debe ser mayor a 150 mm y no es necesario tomarlo menor a 100 mm. a) B*1/4 12.50 cm b) 6*db 15.24 cm $s_o = 100 + \left(\frac{350 - h_x}{3} \right) = 19.67 \text{ cm}$ c) So 15.0 cm Separación máxima 12.50 cm
SEPARACIÓN ZONA NO CONFINADA C.7.10.5.2 — El espaciamiento vertical de los estribos no debe exceder 16 diámetros de barra longitudinal, 48 diámetros de barra o alambre de los estribos, o la menor dimensión del elemento sometido a compresión. 16*db 25.44 cm 48*db.estribo 45.6 cm bc 50.0 cm Separación 25.44 cm	

REVISION CORTANTE C.21.6.4.4 - NSR-10			
REVISION CORTANTE			
COLUMNA RECTANGULAR 125x50		(b) El área total de la sección transversal del refuerzo de estribos cerrados de confinamiento rectangulares, A_{ch} , no debe ser menor que la requerida por las ecuaciones (C.21-7) y (C.21-8).	
f_c	347 kg/cm ²		
f_y	4282.8 kg/cm ²		
separación máxima C.21-6.4.3	12.5 cm		
Separación asignada	12.0 cm	$A_{ch} = 0.3 \frac{s_b f'_c}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right]$	(C.21-7)
bcx	116 cm		
bcy	42 cm		
A_g	6250.0 cm ²	$A_{ch} = 0.09 \frac{s_b f'_c}{f_{yt}}$	(C.21-8)
A_{ch}	4872.0 cm ²		
Ash.x (C.21-7)		Ash.y (C.21-7)	3.5 cm ²
Ash.x (C.21-8)		Ash.y (C.21-8)	3.7 cm ²
Ash.x. Requerido	10.14 cm²	Ash.y. Requerido	3.67 cm²
Nº ganchos usados sentido (x)	6	Nº ganchos usados sentido (y)	1
Diámetro gancho sentido (x)	G#4	Diámetro gancho sentido (y)	G#4
Separación de ganchos en (x)	12.0 cm	Separación de ganchos en (y)	12.0 cm
Asv. adicional ganchos en (x)	7.74 cm ²	Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado	E#4	Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²	Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(x): Asv.estribo+Asv.gancho (x)	10.32 cm²	Asv(y): Asv.estribo+Asv.gancho (y)	3.87 cm²
Ash.x. Requerido	10.14 cm²	Ash.y. Requerido	3.67 cm²
Asv (x) > Ash.x.Requerido	Cumple	Asv (y) > Ash.y.Requerido	Cumple
RESUMEN			
COLUMNA RECTANGULAR 125x50			
Estribo cerrado	E#4		
S1: Separación estribos	12 cm		
Ganchos suplementarios lado largo			
Cantidad Requerida	6		
Diámetro gancho	G#4		
Separación	12 cm		
Ganchos suplementarios lado corto			
Cantidad Requerida	1		
Diámetro gancho	G#4		
Separación	12.0 cm		



COLUMNA RECTANGULAR 150x50



Sección: 150 x 50
Refuerzo: Ast 36#8

Ag 7500 cm²
p.min 0.01
p.max 0.040
Ast min 75.0 cm²
Ast max 300.0 cm²
b.min 50 cm

Ast 36#8
Ast 184 cm²
Ast/Asmin 2.45 > 1.0 ok
L. max 5 m

REQUISITOS GEOMETRICOS EN DISEÑO DE ELEMENTOS VERTICALES

Ancho menor: bw 50 cm
Lado largo: lw 150 cm
Altura máxima libre: hw 500 cm

Tabla R18.10.1 — Requisitos que dominan en el diseño de segmentos verticales de muro⁽¹⁾

Altura libre del segmento vertical de muro longitud del segmento vertical de muro (h_u/ℓ_u)	Longitud del segmento vertical de muro (ℓ_u/b_u)			Espesor del muro (ℓ_u/b_u)
	$\ell_u/b_u \leq 2.5$	$2.5 < \ell_u/b_u \leq 6$	$\ell_u/b_u > 6$	
$h_u/\ell_u < 2$	Muro	Muro	Muro	
$h_u/\ell_u \geq 2$	El machón de muro debe cumplir los requisitos de diseño de columnas. véase 18.10.8.1	El machón de muro debe cumplir los requisitos de columna o requisitos alternos. véase 18.10.8.1	Muro	

⁽¹⁾ h_u es la altura libre, ℓ_u es la longitud horizontal, y b_u es el espesor del alma del segmento de muro.

$$(h_u/\ell_u) = 3.3$$

$$(h_u/\ell_u) \geq 2$$

$$(\ell_u/b_u) = 3.0$$

$$2.5 < (\ell_u/b_u) < 6.0$$

Se diseña como Columna según R.18.10.1 ACI-318

C.10.10 EFECTOS DE ESBELTEZ EN ELEMENTOS SOMETIDOS A COMPRESION

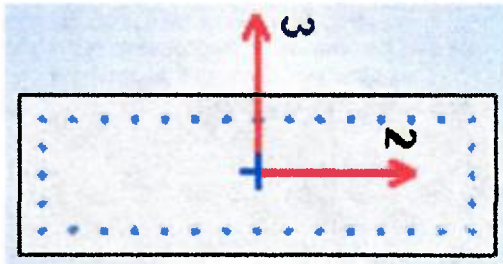
C.10.10.1 — Se permite ignorar los efectos de esbeltez en los siguientes casos:

a) en elementos sometidos a compresión no arriostrados contra desplazamientos laterales cuando:

$$\frac{K \cdot l}{r} < 22 \quad (C.10-6) \quad \frac{K \cdot l}{r_x} = 5.79 < 22 \text{ OK}$$

$$\frac{K \cdot l}{r_y} = 17.36 < 22 \text{ OK}$$

Por lo tanto, se permite ignorar los efectos de esbeltez según C.10.10 de la NSR-10

COLUMNA RECTANGULAR 150x50	
	Ag 7500 cm ² p.min 0.01 p.max 0.040 Ast min 75.0 cm ² Ast max 300.0 cm ² b.min 50 cm
	Ast 36#8 Ast 184 cm ² Ast/Asmin 2.45 > 1.0 ok L. max 5 m
Sección: 150 x 50 Refuerzo: Ast 36#8	
C.21.6.4 — Refuerzo transversal C.21.6.4.1 — El refuerzo transversal en las cantidades que se especifican en C.21.6.4.2 hasta C.21.6.4.4, debe suministrarse en una longitud ℓ_o medida desde cada cara del nudo y a ambos lados de cualquier sección donde pueda ocurrir fluencia por flexión como resultado de desplazamientos laterales inelásticos del pórtico. La longitud ℓ_o no debe ser menor que la mayor de (a), (b) y (c): (a) La altura del elemento en la cara del nudo o en la sección donde puede ocurrir fluencia por flexión. (b) Un sexto de la luz libre del elemento, y (c) 450 mm. a) 1.50 m b) 0.83 m c) 0.45 m Lo: Long. Confinamiento 1.50 m	SEPARACION ZONA CONFINADA C.21.6.4.3 — La separación del refuerzo transversal a lo largo del eje longitudinal del elemento no debe exceder la menor de (a), (b), y (c): (a) La cuarta parte de la dimensión mínima del elemento. (b) Seis veces el diámetro de la barra de refuerzo longitudinal menor, y (c) s_o según lo definido en la ecuación (C.21-5). $s_o = 100 + \left(\frac{350 - h_x}{3} \right) \quad (C.21-5)$ El valor de s_o no debe ser mayor a 150 mm y no es necesario tomarlo menor a 100 mm. a) $B \cdot 1/4$ 12.50 cm b) $6 \cdot db$ 15.24 cm $s_o = 100 + \left(\frac{350 - h_x}{3} \right) = 19.67 \text{ cm}$ c) s_o 15.0 cm Separación máxima 12.50 cm
SEPARACIÓN ZONA NO CONFINADA C.7.10.5.2 — El espaciado vertical de los estribos no debe exceder 16 diámetros de barra longitudinal, 48 diámetros de barra o alambre de los estribos, o la menor dimensión del elemento sometido a compresión. 16*db 25.44 cm 48*db.estribo 45.6 cm bc 50.0 cm Separación 25.44 cm	

REVISION CORTANTE C.21.6.4.4 - NSR-10

REVISION CORTANTE

COLUMNA RECTANGULAR 150x50

f_c	347 kg/cm ²
f_y	4282.8 kg/cm ²
separación máxima C.21-6.4.3	12.5 cm
Separación asignada	12.0 cm
bcx	141 cm
bcy	42 cm
A_g	7500.0 cm ²
A_{ch}	5922.0 cm ²

(b) El area total de la seccion transversal del refuerzo de estribos cerrados de confinamiento rectangulares, A_{th} , no debe ser menor que la requerida por las ecuaciones (C.21-7) y (C.21-8).

$$A_{th} = 0.3 \frac{s_b f'_c}{f_{yt}} \left[\left(\frac{A_g}{A_{ch}} \right) - 1 \right] \quad (C.21-7)$$

$$A_{th} = 0.09 \frac{s_b f'_c}{f_{yt}} \quad (C.21-8)$$

Ash.x (C.21-7)	10.9 cm ²
Ash.x (C.21-8)	12.3 cm ²

Ash.y (C.21-7)	3.3 cm ²
Ash.y (C.21-8)	3.7 cm ²

Ash.x. Requerido 12.33 cm²

Ash.y. Requerido 3.67 cm²

N° ganchos usados sentido (x)	8
Diámetro gancho sentido (x)	G#4
Separación de ganchos en (x)	12.0 cm
Asv. adicional ganchos en (x)	10.32 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(x): Asv. estribo + Asv. gancho (x)	12.9 cm²
Ash.x. Requerido	12.33 cm²

N° ganchos usados sentido (y)	1
Diámetro gancho sentido (y)	G#4
Separación de ganchos en (y)	12.0 cm
Asv. Adicional ganchos en (y)	1.29 cm ²
Diámetro del estribo usado	E#4
Asv. estribo: 2 ramas estribo cerrado	2.58 cm ²
Asv(y): Asv. estribo + Asv. gancho (y)	3.87 cm²
Ash.y. Requerido	3.67 cm²

Asv (x) > Ash.x.Requerido Cumple

Asv (y) > Ash.y.Requerido Cumple

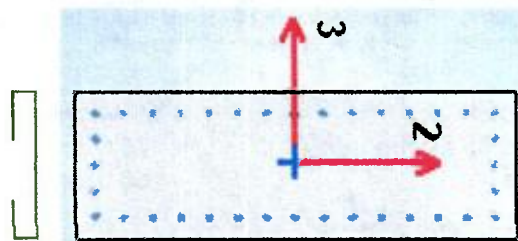
RESUMEN

COLUMNA RECTANGULAR 150x50

Estribo cerrado	E#4
S1: Separación estribos	12 cm

Ganchos suplementarios lado largo	
Cantidad Requerida	8
Diámetro gancho	G#4
Separación	12 cm

Ganchos suplementarios lado corto	
Cantidad Requerida	1
Diámetro gancho	G#4
Separación	12.0 cm



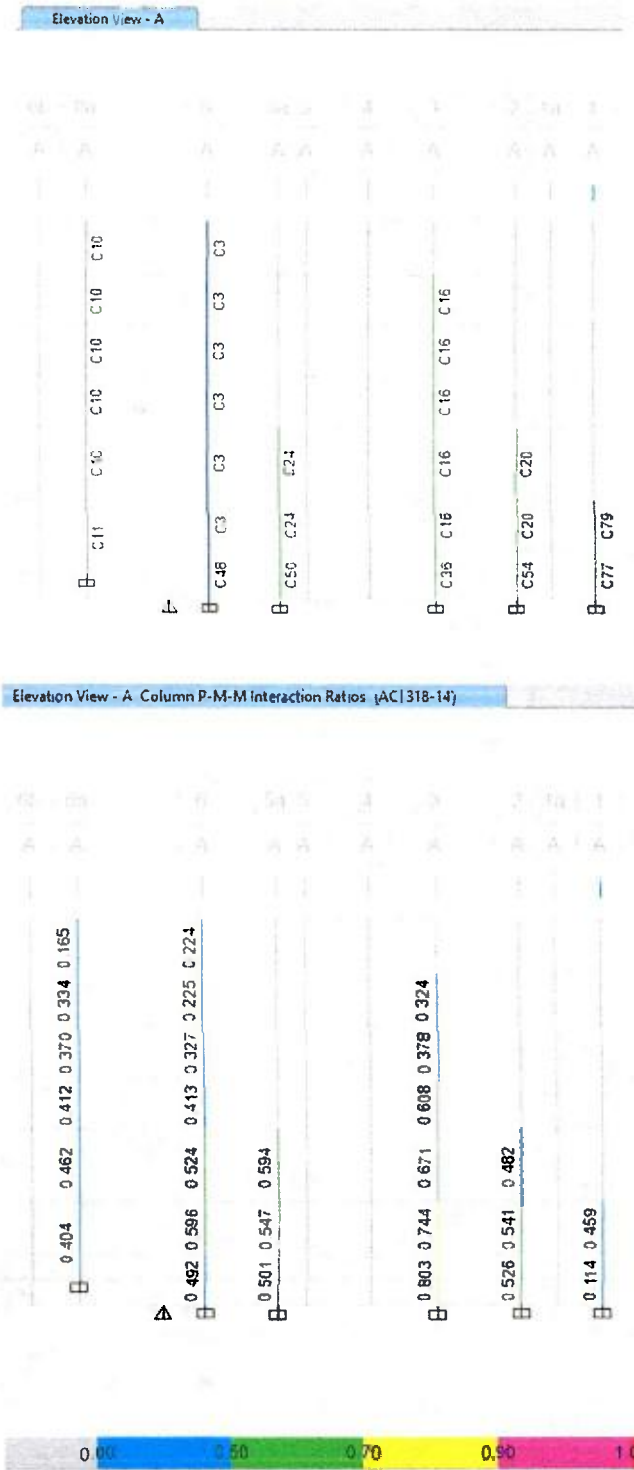


Figura 44 Label e índice de sobre esfuerzo columnas eje A.



Figura 45 Label e índice de sobre esfuerzo columnas eje B

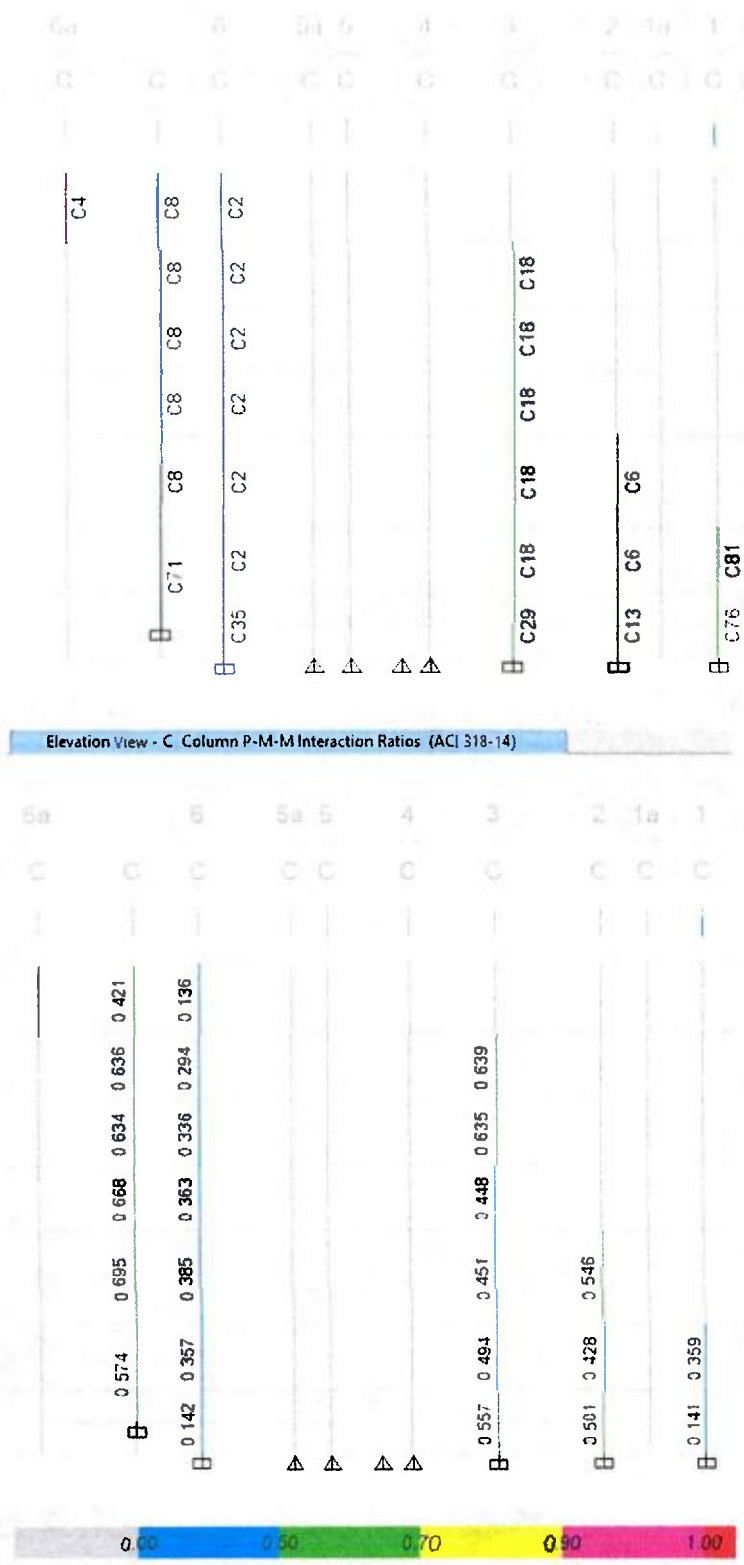


Figura 46 Label e índice de sobre esfuerzo de columnas en eje C

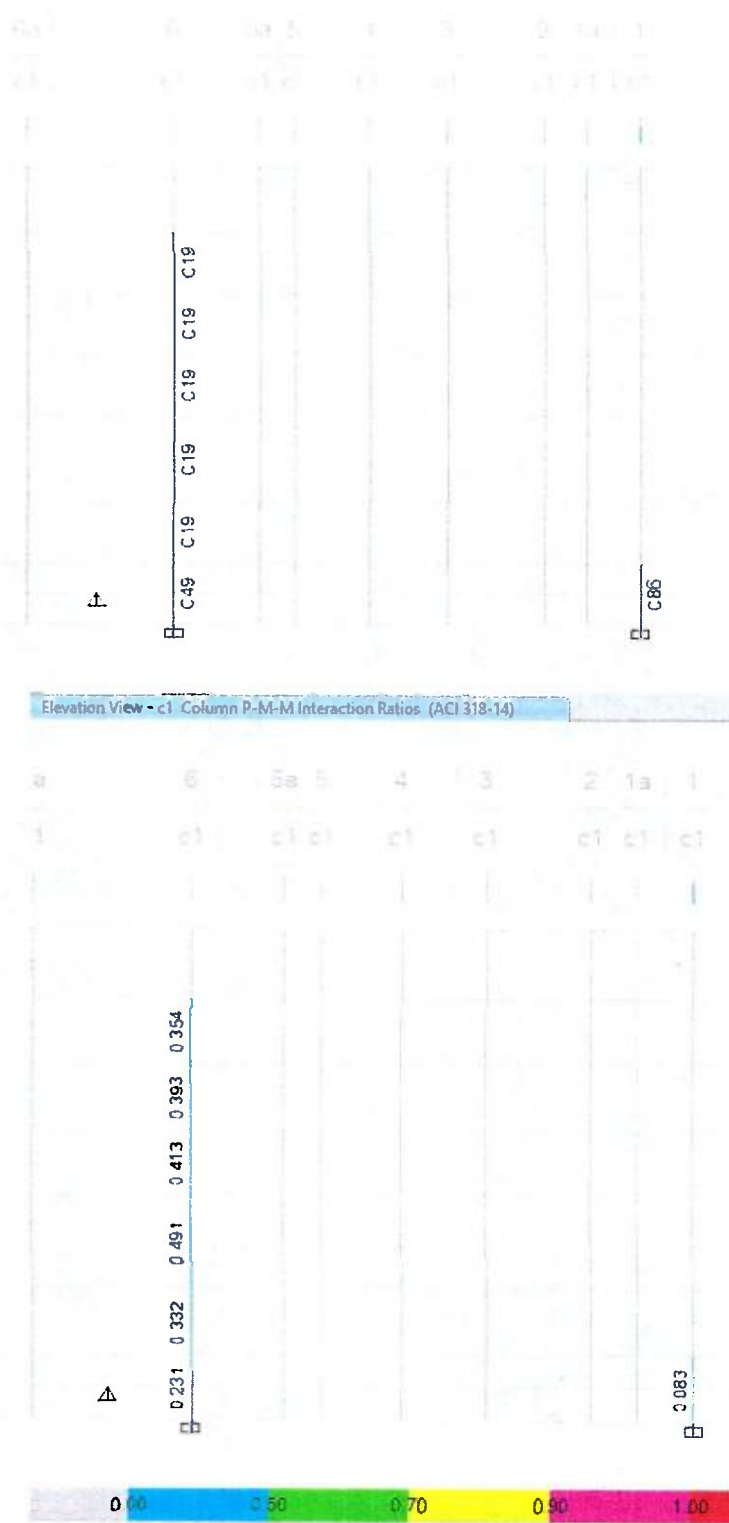


Figura 47 Label e índice de sobre esfuerzo de columnas en eje c1

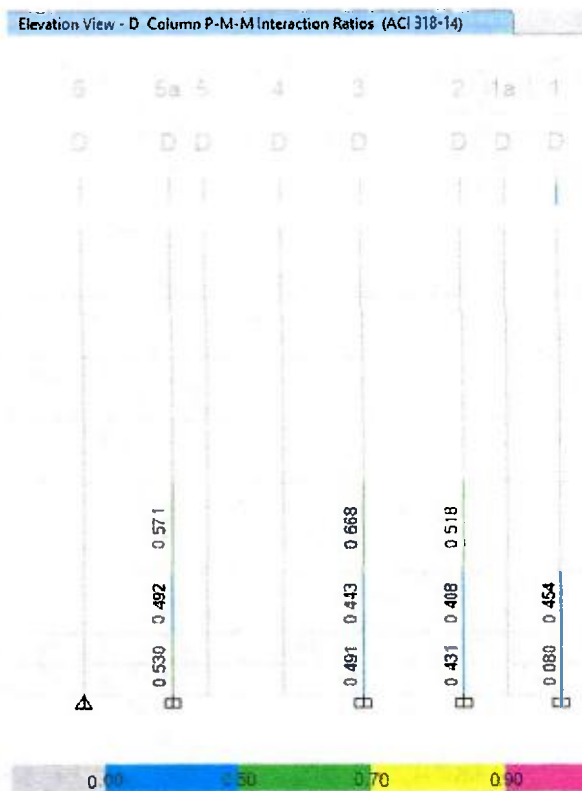
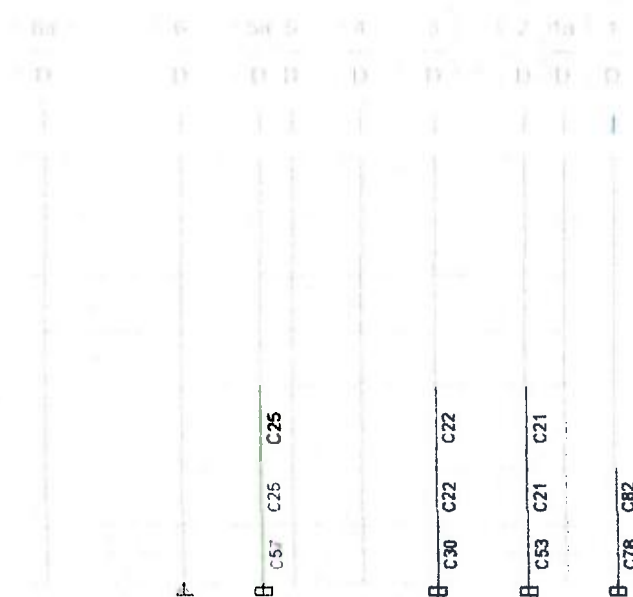


Figura 48 Label e índice de sobre esfuerzo de columnas en eje D

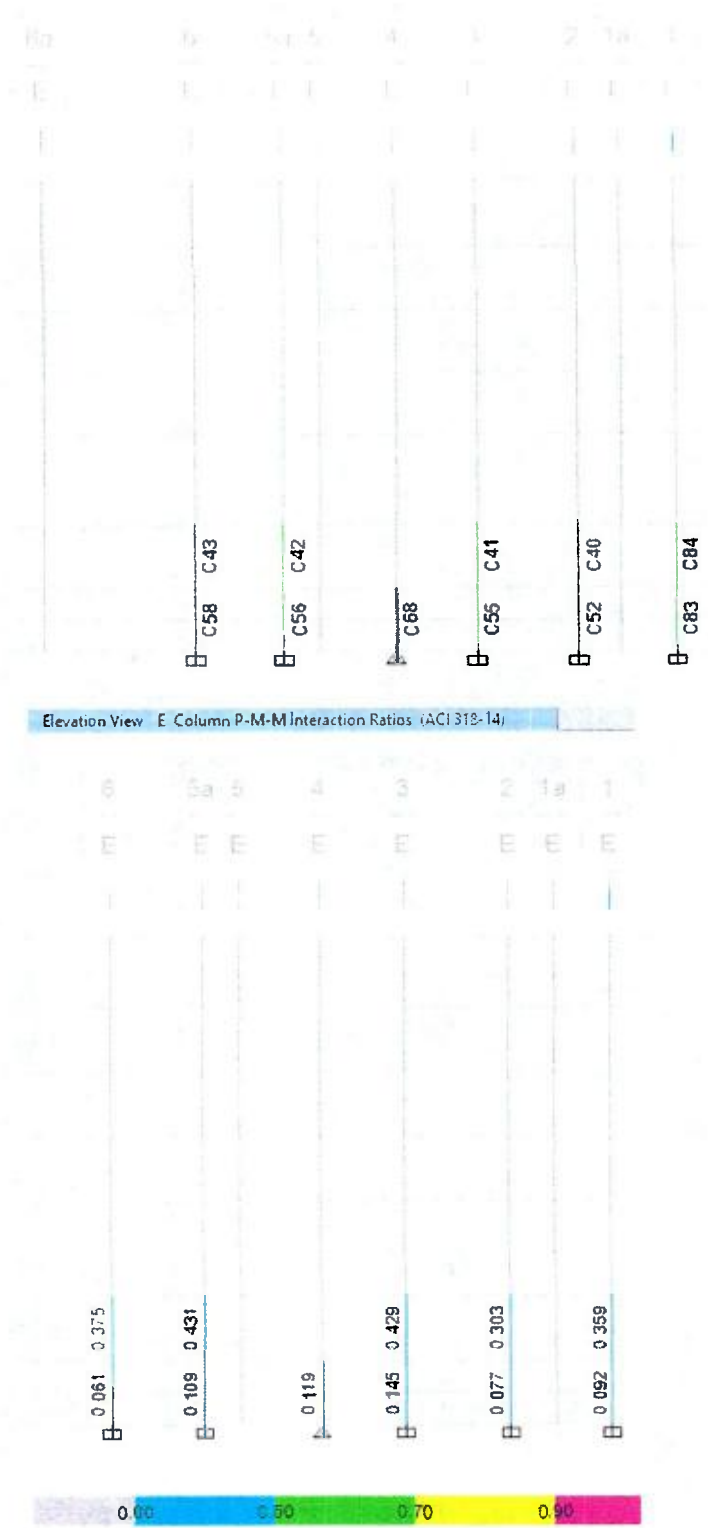


Figura 49 Label e índice de sobre esfuerzo de columnas en eje E

Tabla 28 Índice de sobre esfuerzo en columnas Edificio B ejes (1 a 6ª)

TABLE: concrete Column PMM Envelope AGL 18-14									
Story	Label	UniqueName	Section	Location	P kN	M Major kN-m	M Minor kN-m	PMM Combo	PMM Ratio or Rebar %
N+24.40	C1	4969	COL125X50	Top	237.8	122.6	-52.7	B.2.4.3-4	0.069
N+24.40	C1	4969	COL125X50	Bottom	181.8	831.4	-84.2	B.2.4.5-8	0.306
N+24.40	C2	4970	COL125X50	Top	57.6	72.2	32.0	B.2.4.5-8	0.041
N+24.40	C2	4970	COL125X50	Bottom	113.2	296.3	-79.6	B.2.4.5-8	0.136
N+24.40	C3	78	COL125X50	Top	138.6	-56.6	50.5	B.2.4.3-3	0.05
N+24.40	C3	78	COL125X50	Bottom	136.8	312.4	192.5	B.2.4.5-3	0.224
N+24.40	C8	9087	COL125X50	Top	210.4	-68.6	151.0	B.2.4.3-1	0.129
N+24.40	C8	9087	COL125X50	Bottom	269.4	630.1	-348.7	B.2.4.3-3	0.421
N+24.40	C10	384	COL150X50	Top	110.2	-122.4	113.3	B.2.4.5-8	0.088
N+24.40	C10	384	COL150X50	Bottom	170.6	-248.4	-206.0	B.2.4.5-8	0.165
N+19.65	C1	4185	COL125X50	Top	1572.8	-589.3	132.5	B.2.4.5-8	0.268
N+19.65	C1	4185	COL125X50	Bottom	1583.4	930.3	-325.5	B.2.4.5-3	0.473
N+19.65	C2	4186	COL125X50	Top	860.2	-270.5	128.0	B.2.4.5-3	0.169
N+19.65	C2	4186	COL125X50	Bottom	904.4	404.8	-269.8	B.2.4.5-3	0.294
N+19.65	C3	82	COL125X50	Top	1486.6	406.0	-59.0	B.2.4.5-8	0.179
N+19.65	C3	82	COL125X50	Bottom	1530.8	-472.2	116.0	B.2.4.5-8	0.225
N+19.65	C8	182	COL125X50	Top	1456.5	-598.9	315.3	B.2.4.3-3	0.384
N+19.65	C8	182	COL125X50	Bottom	1064.0	814.4	-597.7	B.2.4.5-3	0.636
N+19.65	C16	513	COL 100X50	Top	1195.8	-127.4	113.4	B.2.4.5-3	0.191
N+19.65	C16	513	COL 100X50	Bottom	1232.5	223.7	-206.4	B.2.4.5-3	0.324
N+19.65	C17	515	COL 100X50	Top	612.2	487.5	104.0	B.2.4.5-3	0.337
N+19.65	C17	515	COL 100X50	Bottom	649.0	-676.6	-185.7	B.2.4.5-3	0.521
N+19.65	C18	517	COL 100X50	Top	662.4	565.4	-138.0	B.2.4.5-8	0.411
N+19.65	C18	517	COL 100X50	Bottom	699.2	-782.3	243.2	B.2.4.5-8	0.639
N+19.65	C19	56	COL125X50	Top	1190.1	200.0	-248.0	B.2.4.5-3	0.245
N+19.65	C19	56	COL125X50	Bottom	1236.0	-205.4	411.0	B.2.4.5-3	0.354
N+19.65	C10	386	COL150X50	Top	1257.0	788.9	179.7	B.2.4.3-1	0.25
N+19.65	C10	386	COL150X50	Bottom	986.5	-546.6	-423.9	B.2.4.5-8	0.334
N+16.00	C1	3416	COL125X50	Top	3082.1	-501.6	121.7	B.2.4.5-8	0.297
N+16.00	C1	3416	COL125X50	Bottom	3126.3	1036.7	-284.4	B.2.4.5-8	0.509
N+16.00	C2	3417	COL125X50	Top	1710.8	-267.3	116.4	B.2.4.5-3	0.185
N+16.00	C2	3417	COL125X50	Bottom	1754.9	485.0	-275.7	B.2.4.5-3	0.336
N+16.00	C3	83	COL125X50	Top	3290.1	63.6	-99.5	B.2.4.3-1	0.268
N+16.00	C3	83	COL125X50	Bottom	3052.7	-642.8	124.1	B.2.4.5-8	0.327
N+16.00	C8	64	COL125X50	Top	2184.7	-426.1	243.8	B.2.4.5-3	0.307
N+16.00	C8	64	COL125X50	Bottom	2228.8	870.1	-572.6	B.2.4.5-3	0.634
N+16.00	C16	3407	COL 100X50	Top	2771.0	-61.8	83.8	B.2.4.3-1	0.306
N+16.00	C16	3407	COL 100X50	Bottom	2628.4	165.2	-229.1	B.2.4.5-3	0.378
N+16.00	C17	3408	COL 100X50	Top	1857.5	357.3	70.4	B.2.4.5-8	0.28
N+16.00	C17	3408	COL 100X50	Bottom	1850.3	-714.9	-191.7	B.2.4.5-3	0.542
N+16.00	C18	3409	COL 100X50	Top	2158.5	362.7	-113.0	B.2.4.5-8	0.323
N+16.00	C18	3409	COL 100X50	Bottom	2195.3	-800.8	241.3	B.2.4.5-8	0.635
N+16.00	C19	70	COL125X50	Top	2650.4	139.8	-165.1	B.2.4.2-1	0.244
N+16.00	C19	70	COL125X50	Bottom	2509.4	-275.0	391.7	B.2.4.5-3	0.393
N+16.00	C10	518	COL150X50	Top	2090.7	384.5	188.9	B.2.4.5-8	0.202

TABLE: Concrete Column PMM Envelope - ACI 318-14

Story	Label	UniqueName	Section	Location	P kN	M Major kN-m	M Minor kN-m	PMM Combo	PMM Ratio or Rebar %
N+16.00	C10	518	COL150X50	Bottom	2143.8	-627.8	-419.3	B.2.4.5-8	0.37
N+12.35	C1	79	COL125X50	Top	4651.4	-501.6	-140.7	B.2.4.5-8	0.399
N+12.35	C1	79	COL125X50	Bottom	4695.6	1155.2	-218.3	B.2.4.5-8	0.549
N+12.35	C2	80	COL125X50	Top	2532.7	-325.4	85.2	B.2.4.5-8	0.226
N+12.35	C2	80	COL125X50	Bottom	2554.1	545.0	-272.3	B.2.4.5-3	0.363
N+12.35	C3	85	COL125X50	Top	4842.3	134.4	-146.4	B.2.4.2-1	0.396
N+12.35	C3	85	COL125X50	Bottom	4685.8	403.0	-221.0	B.2.4.5-3	0.413
N+12.35	C8	25	COL125X50	Top	3397.9	-468.9	214.2	B.2.4.5-8	0.347
N+12.35	C8	25	COL125X50	Bottom	3270.9	889.8	-581.7	B.2.4.5-3	0.668
N+12.35	C16	66	COL 100X50	Top	4246.9	-67.7	128.4	B.2.4.3-1	0.469
N+12.35	C16	66	COL 100X50	Bottom	4184.8	519.4	-283.7	B.2.4.5-3	0.608
N+12.35	C17	67	COL 100X50	Top	2953.7	360.0	-89.3	B.2.4.5-8	0.362
N+12.35	C17	67	COL 100X50	Bottom	2990.5	-501.7	-103.3	B.2.4.5-8	0.419
N+12.35	C18	72	COL 100X50	Top	3402.1	375.2	-113.8	B.2.4.5-8	0.411
N+12.35	C18	72	COL 100X50	Bottom	3438.8	-422.7	158.1	B.2.4.5-8	0.448
N+12.35	C19	101	COL125X50	Top	3996.4	210.8	-161.0	B.2.4.2-1	0.333
N+12.35	C19	101	COL125X50	Bottom	3796.4	282.2	347.0	B.2.4.5-3	0.413
N+12.35	C10	530	COL150X50	Top	3065.5	327.8	173.6	B.2.4.5-8	0.231
N+12.35	C10	530	COL150X50	Bottom	3118.5	-728.0	-440.7	B.2.4.5-8	0.412
N+8.70	C1	217	COL125X50	Top	6131.9	-685.4	-185.4	B.2.4.5-8	0.529
N+8.70	C1	217	COL125X50	Bottom	6202.6	1358.7	187.6	B.2.4.5-8	0.653
N+8.70	C2	240	COL125X50	Top	3298.8	-435.0	99.8	B.2.4.5-8	0.293
N+8.70	C2	240	COL125X50	Bottom	3369.5	793.1	-155.4	B.2.4.5-8	0.385
N+8.70	C3	87	COL125X50	Top	6019.9	-208.8	182.0	B.2.4.2-1	0.492
N+8.70	C3	87	COL125X50	Bottom	5755.3	847.9	-174.0	B.2.4.5-8	0.524
N+8.70	C8	24	COL125X50	Top	4604.0	-617.2	248.2	B.2.4.5-8	0.447
N+8.70	C8	24	COL125X50	Bottom	4674.7	1337.0	-408.9	B.2.4.5-8	0.695
N+8.70	C16	122	COL 100X50	Top	5240.3	-475.4	158.5	B.2.4.5-8	0.61
N+8.70	C16	122	COL 100X50	Bottom	5298.3	651.8	-207.9	B.2.4.5-8	0.671
N+8.70	C17	130	COL 100X50	Top	3234.0	272.7	-97.8	B.2.4.5-8	0.372
N+8.70	C17	130	COL 100X50	Bottom	3291.9	-494.3	-110.2	B.2.4.5-8	0.438
N+8.70	C18	131	COL 100X50	Top	3444.9	-280.3	-104.2	B.2.4.5-8	0.395
N+8.70	C18	131	COL 100X50	Bottom	3502.9	-497.7	105.9	B.2.4.5-8	0.451
N+8.70	C19	105	COL125X50	Top	5035.4	-265.6	-89.8	B.2.4.2-1	0.407
N+8.70	C19	105	COL125X50	Bottom	4708.7	-975.3	164.5	B.2.4.5-8	0.491
N+8.70	C20	81	COL 100X50	Top	3488.8	526.2	147.8	B.2.4.5-8	0.482
N+8.70	C20	81	COL 100X50	Bottom	3545.4	-435.7	-188.1	B.2.4.5-8	0.477
N+8.70	C21	225	COL 100X50	Top	2737.8	322.2	242.9	B.2.4.5-3	0.435
N+8.70	C21	225	COL 100X50	Bottom	2794.3	510.2	-253.7	B.2.4.5-3	0.518
N+8.70	C22	248	COL 100X50	Top	2578.6	696.9	-322.6	B.2.4.5-8	0.668
N+8.70	C22	248	COL 100X50	Bottom	2760.8	-454.7	337.8	B.2.4.5-3	0.579
N+8.70	C24	294	COL 100X50	Top	2190.9	556.5	244.3	B.2.4.5-8	0.521
N+8.70	C24	294	COL 100X50	Bottom	2248.9	-688.9	-254.7	B.2.4.5-8	0.594
N+8.70	C25	313	COL 100X50	Top	3118.5	570.6	275.5	B.2.4.5-8	0.571
N+8.70	C25	313	COL 100X50	Bottom	3314.5	-358.7	-329.7	B.2.4.5-3	0.543
N+8.70	C10	538	COL150X50	Top	4088.8	357.3	245.7	B.2.4.5-8	0.311
N+8.70	C10	538	COL150X50	Bottom	4173.6	-998.9	-432.0	B.2.4.5-8	0.462

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TABLE: Concrete Column PMM Envelope - ACI 318-14

Story	Label	UniqueName	Section	Location	P kN	M Major kN-m	M Minor kN-m	PMM Combo	PMM Ratio or Rebar %
N+8.70	C5	630	COL 100X50	Top	2866.7	628.2	-165.2	B.2.4.5-3	0.497
N+8.70	C5	630	COL 100X50	Bottom	3048.0	-532.7	156.0	B.2.4.5-8	0.462
N+8.70	C6	637	COL 100X50	Top	2677.0	650.7	214.2	B.2.4.5-3	0.546
N+8.70	C6	637	COL 100X50	Bottom	2733.5	-457.7	-265.9	B.2.4.5-3	0.507
N+3.60	C1	213	COL125X50	Top	7943.4	-570.7	240.2	B.2.4.2-1	0.65
N+3.60	C1	213	COL125X50	Bottom	7987.6	-138.0	241.5	B.2.4.2-1	0.65
N+3.60	C2	214	COL125X50	Top	4194.1	-55.7	126.8	B.2.4.2-1	0.34
N+3.60	C2	214	COL125X50	Bottom	3922.7	-303.6	-221.1	B.2.4.5-3	0.357
N+3.60	C3	89	COL125X50	Top	7282.9	-177.4	-220.2	B.2.4.2-1	0.596
N+3.60	C3	89	COL125X50	Bottom	6972.9	-720.6	210.9	B.2.4.5-8	0.595
N+3.60	C16	203	COL 100X50	Top	6658.0	-121.3	201.3	B.2.4.2-1	0.735
N+3.60	C16	203	COL 100X50	Bottom	6579.4	474.7	199.0	B.2.4.5-8	0.744
N+3.60	C17	204	COL 100X50	Top	4077.3	213.9	-123.3	B.2.4.5-8	0.448
N+3.60	C17	204	COL 100X50	Bottom	4114.0	-474.2	124.4	B.2.4.5-8	0.498
N+3.60	C18	205	COL 100X50	Top	4241.3	157.7	128.3	B.2.4.5-8	0.465
N+3.60	C18	205	COL 100X50	Bottom	4278.0	-362.4	132.5	B.2.4.5-8	0.494
N+3.60	C19	109	COL125X50	Top	4095.8	217.3	-39.6	B.2.4.2-1	0.331
N+3.60	C19	109	COL125X50	Bottom	3654.8	-320.6	201.0	B.2.4.5-3	0.332
N+3.60	C20	3384	COL 100X50	Top	4273.4	-237.7	130.7	B.2.4.5-8	0.473
N+3.60	C20	3384	COL 100X50	Bottom	4310.1	487.5	188.2	B.2.4.5-8	0.541
N+3.60	C21	3306	COL 100X50	Top	3408.4	-138.4	-103.1	B.2.4.5-8	0.372
N+3.60	C21	3306	COL 100X50	Bottom	3445.2	271.7	148.6	B.2.4.5-8	0.408
N+3.60	C22	206	COL 100X50	Top	3586.9	-207.1	-108.5	B.2.4.5-3	0.398
N+3.60	C22	206	COL 100X50	Bottom	3623.6	372.3	160.0	B.2.4.5-3	0.443
N+3.60	C24	3386	COL 100X50	Top	3776.4	180.2	28.9	B.2.4.2-1	0.412
N+3.60	C24	3386	COL 100X50	Bottom	3593.0	-681.5	152.7	B.2.4.5-8	0.547
N+3.60	C25	3389	COL 100X50	Top	4060.8	-129.7	122.8	B.2.4.2-1	0.447
N+3.60	C25	3389	COL 100X50	Bottom	4040.5	412.6	-176.0	B.2.4.5-3	0.492
N+3.60	C40	3312	COL 100X50	Top	209.1	-214.9	72.7	B.2.4.5-8	0.181
N+3.60	C40	3312	COL 100X50	Bottom	245.8	294.5	144.2	B.2.4.5-8	0.303
N+3.60	C41	3317	COL 100X50	Top	669.4	-260.6	-123.3	B.2.4.5-3	0.246
N+3.60	C41	3317	COL 100X50	Bottom	487.5	460.7	193.9	B.2.4.5-3	0.429
N+3.60	C42	3394	COL 100X50	Top	709.5	-300.9	113.8	B.2.4.5-3	0.256
N+3.60	C42	3394	COL 100X50	Bottom	534.2	521.5	-170.7	B.2.4.5-3	0.431
N+3.60	C43	3402	COL 100X50	Top	475.2	-122.5	202.1	B.2.4.5-3	0.278
N+3.60	C43	3402	COL 100X50	Bottom	512.0	272.7	-232.0	B.2.4.5-3	0.375
N+3.60	C70	4363	COL 100X50	Top	289.8	-685.7	-25.5	B.2.4.5-8	0.479
N+3.60	C70	4363	COL 100X50	Bottom	371.1	626.8	57.0	B.2.4.5-3	0.427
N+3.60	C71	1150	COL125X50	Top	6473.1	-509.3	195.7	B.2.4.5-8	0.535
N+3.60	C71	1150	COL125X50	Bottom	6548.2	809.9	-198.0	B.2.4.5-8	0.574
N+3.60	C79	199	COL 100X50	Top	378.2	-338.1	45.2	B.2.4.5-8	0.208
N+3.60	C79	199	COL 100X50	Bottom	415.0	577.7	164.0	B.2.4.5-8	0.459
N+3.60	C80	200	COL 100X50	Top	409.8	-317.0	-78.4	B.2.4.5-8	0.229
N+3.60	C80	200	COL 100X50	Bottom	446.5	521.8	172.9	B.2.4.5-8	0.44
N+3.60	C81	201	COL 100X50	Top	613.1	-301.3	-67.8	B.2.4.5-8	0.21
N+3.60	C81	201	COL 100X50	Bottom	462.5	448.2	136.9	B.2.4.5-8	0.359
N+3.60	C82	202	COL 100X50	Top	349.7	-115.5	-142.5	B.2.4.5-8	0.207

TABLE: Concrete Column PMM Envelope - ACI 318-14

Story	Label	UniqueName	Section	Location	P kN	M Major kN-m	M Minor kN-m	PMM Combo	PMM Ratio or Rebar %
N+3.60	C82	202	COL 100X50	Bottom	360.7	-476.9	200.0	B.2.4.5-3	0.454
N+3.60	C84	3305	COL 100X50	Top	35.7	-78.4	-84.7	B.2.4.5-8	0.155
N+3.60	C84	3305	COL 100X50	Bottom	72.4	-287.2	173.6	B.2.4.5-8	0.359
N+3.60	C11	548	COL150X50	Top	5420.9	738.1	179.5	B.2.4.5-8	0.389
N+3.60	C11	548	COL150X50	Bottom	5511.0	-685.5	-250.5	B.2.4.5-8	0.404
N+3.60	C5	414	COL 100X50	Top	3880.8	-119.7	-117.4	B.2.4.2-1	0.427
N+3.60	C5	414	COL 100X50	Bottom	3867.1	396.3	116.9	B.2.4.5-8	0.458
N+3.60	C6	582	COL 100X50	Top	3639.3	-136.1	-110.1	B.2.4.2-1	0.399
N+3.60	C6	582	COL 100X50	Bottom	3637.7	353.9	110.0	B.2.4.5-8	0.428
N+0.00	C28	1	COL 100X50	Top	4994.1	55.8	151.0	B.2.4.5-8	0.549
N+0.00	C28	1	COL 100X50	Bottom	5030.8	198.9	152.1	B.2.4.5-8	0.55
N+0.00	C29	2	COL 100X50	Top	5025.8	52.8	-152.0	B.2.4.5-8	0.552
N+0.00	C29	2	COL 100X50	Bottom	5062.5	175.1	153.1	B.2.4.5-8	0.556
N+0.00	C30	3	COL 100X50	Top	4418.8	-99.4	-133.6	B.2.4.2-1	0.488
N+0.00	C30	3	COL 100X50	Bottom	4455.6	55.9	134.7	B.2.4.2-1	0.491
N+0.00	C33	4	COL125X50	Top	2322.9	294.7	-72.1	B.2.4.5-8	0.205
N+0.00	C33	4	COL125X50	Bottom	2239.9	-396.7	69.5	B.2.4.5-8	0.216
N+0.00	C35	5	COL125X50	Top	991.7	188.3	-30.3	B.2.4.5-8	0.098
N+0.00	C35	5	COL125X50	Bottom	1022.6	-360.7	31.3	B.2.4.5-8	0.142
N+0.00	C36	26	COL 100X50	Top	7327.8	-60.0	-221.6	B.2.4.2-1	0.802
N+0.00	C36	26	COL 100X50	Bottom	7364.5	333.2	56.2	B.2.4.2-1	0.803
N+0.00	C48	91	COL125X50	Top	6039.6	318.5	62.3	B.2.4.2-1	0.488
N+0.00	C48	91	COL125X50	Bottom	6085.6	321.0	-52.1	B.2.4.2-1	0.492
N+0.00	C49	117	COL125X50	Top	2100.6	203.0	-64.8	B.2.4.5-8	0.178
N+0.00	C49	117	COL125X50	Bottom	2131.6	-495.9	65.8	B.2.4.5-8	0.231
N+0.00	C50	19	COL 100X50	Top	4556.4	46.6	-137.8	B.2.4.2-1	0.5
N+0.00	C50	19	COL 100X50	Bottom	4593.2	-207.8	44.9	B.2.4.2-1	0.501
N+0.00	C52	153	COL 100X50	Top	229.7	-120.0	6.9	B.2.4.5-3	0.067
N+0.00	C52	153	COL 100X50	Bottom	239.4	141.6	-7.7	B.2.4.5-3	0.077
N+0.00	C53	154	COL 100X50	Top	3880.3	-71.6	-117.3	B.2.4.5-8	0.428
N+0.00	C53	154	COL 100X50	Bottom	3917.0	124.3	118.5	B.2.4.5-8	0.431
N+0.00	C54	155	COL 100X50	Top	4763.3	-62.0	-144.0	B.2.4.2-1	0.525
N+0.00	C54	155	COL 100X50	Bottom	4800.1	39.8	145.2	B.2.4.2-1	0.526
N+0.00	C55	156	COL 100X50	Top	134.1	-179.8	-9.7	B.2.4.5-3	0.113
N+0.00	C55	156	COL 100X50	Bottom	191.5	235.4	12.1	B.2.4.5-3	0.145
N+0.00	C56	161	COL 100X50	Top	184.4	-162.4	15.6	B.2.4.5-3	0.094
N+0.00	C56	161	COL 100X50	Bottom	316.5	199.1	-11.3	B.2.4.5-3	0.109
N+0.00	C57	163	COL 100X50	Top	4796.3	-76.3	145.0	B.2.4.2-1	0.529
N+0.00	C57	163	COL 100X50	Bottom	4833.0	45.6	-146.2	B.2.4.2-1	0.53
N+0.00	C58	164	COL 100X50	Top	5.5	75.2	7.8	B.2.4.7-8	0.061
N+0.00	C58	164	COL 100X50	Bottom	-59.0	-26.9	-11.0	B.2.4.7-4	0.045
N+0.00	C60	52	COL50X30	Top	27.2	8.8	1.5	B.2.4.5-3	0.058
N+0.00	C60	52	COL50X30	Bottom	29.7	-9.2	-3.3	B.2.4.5-3	0.064
N+0.00	C61	58	COL50X30	Top	17.0	16.5	-3.2	B.2.4.5-3	0.114
N+0.00	C61	58	COL50X30	Bottom	36.2	-14.3	3.8	B.2.4.5-3	0.098
N+0.00	C62	77	COL50X30	Top	285.4	15.0	-8.7	B.2.4.5-3	0.13
N+0.00	C62	77	COL50X30	Bottom	198.6	-16.6	6.1	B.2.4.5-3	0.122

TABLE: Concrete Column PMM Envelope - ACI 318-14

Story	Label	UniqueName	Section	Location	P kN	M Major kN-m	M Minor kN-m	PMM Combo	PMM Ratio or Rebar %
N+0.00	C63	84	COL50X30	Top	16.6	11.0	4.1	B.2.4.5-3	0.08
N+0.00	C63	84	COL50X30	Bottom	35.8	-11.8	-2.6	B.2.4.5-3	0.078
N+0.00	C64	86	COL50X30	Top	59.1	10.9	1.8	B.2.4.5-3	0.072
N+0.00	C64	86	COL50X30	Bottom	55.8	-7.5	2.9	B.2.4.5-3	0.054
N+0.00	C65	92	COL50X30	Top	-23.9	1.6	4.1	B.2.4.5-8	0.037
N+0.00	C65	92	COL50X30	Bottom	-23.2	-1.2	-4.4	B.2.4.7-8	0.036
N+0.00	C66	93	COL50X30	Top	-74.5	-1.8	8.9	B.2.4.5-8	0.093
N+0.00	C66	93	COL50X30	Bottom	-67.1	-1.6	-10.1	B.2.4.5-8	0.092
N+0.00	C67	178	COL50X30	Top	147.0	7.4	-4.5	B.2.4.5-8	0.065
N+0.00	C67	178	COL50X30	Bottom	154.4	-4.3	-7.6	B.2.4.5-8	0.06
N+0.00	C68	180	COL50X30	Top	340.4	8.6	2.9	B.2.4.2-1	0.119
N+0.00	C68	180	COL50X30	Bottom	217.5	11.3	-6.6	B.2.4.5-3	0.099
N+0.00	C75	28	COL 100X50	Top	153.2	-148.3	5.9	B.2.4.5-8	0.084
N+0.00	C75	28	COL 100X50	Bottom	224.8	274.4	8.4	B.2.4.5-8	0.167
N+0.00	C76	29	COL 100X50	Top	421.5	-122.4	23.3	B.2.4.5-8	0.087
N+0.00	C76	29	COL 100X50	Bottom	126.4	213.4	10.0	B.2.4.7-8	0.141
N+0.00	C77	30	COL 100X50	Top	200.4	-191.6	-21.3	B.2.4.5-8	0.114
N+0.00	C77	30	COL 100X50	Bottom	312.2	150.5	-9.5	B.2.4.5-8	0.087
N+0.00	C78	31	COL 100X50	Top	328.0	-44.8	-37.5	B.2.4.5-3	0.062
N+0.00	C78	31	COL 100X50	Bottom	329.7	-44.8	54.6	B.2.4.5-8	0.08
N+0.00	C83	152	COL 100X50	Top	-46.9	-89.8	-15.7	B.2.4.5-3	0.092
N+0.00	C83	152	COL 100X50	Bottom	-120.9	45.5	13.1	B.2.4.7-8	0.08
N+0.00	C85	41	COL50X30	Top	-27.1	2.6	-1.1	B.2.4.5-3	0.04
N+0.00	C85	41	COL50X30	Bottom	-19.6	-2.2	3.1	B.2.4.5-3	0.034
N+0.00	C86	181	COL50X30	Top	76.9	-11.8	-2.3	B.2.4.5-8	0.08
N+0.00	C86	181	COL50X30	Bottom	3.1	9.9	6.7	B.2.4.5-8	0.083
N+0.00	C12	669	COL 100X50	Top	4842.7	-53.5	146.4	B.2.4.2-1	0.532
N+0.00	C12	669	COL 100X50	Bottom	4879.4	32.2	-147.6	B.2.4.2-1	0.532
N+0.00	C13	956	COL 100X50	Top	4547.0	-39.2	137.5	B.2.4.2-1	0.498
N+0.00	C13	956	COL 100X50	Bottom	4583.8	33.4	-138.6	B.2.4.2-1	0.501

Chequeo de Nodos, Relación b/c.

Tabla 29 Reporte revisión de nudos 6/5 Viga-Columna Edificio B

TABLE: Concrete Joint Envelope - ACI 318-14

Story	Label	UniqueName	Section	B/C Major Combo	B/C Major Ratio	B/C Minor Ratio	JS Major Ratio	JS Minor Ratio
N+19.65	C1	4185	COL125X50	B.2.4.7-5	0.295	0.462	0.441	0.343
N+19.65	C2	4186	COL125X50	B.2.4.7-5	0.169	0.559	0.243	0.423
N+19.65	C3	82	COL125X50	B.2.4.7-1	0.173	0.531	0.252	0.394
N+19.65	C8	182	COL125X50	B.2.4.7-5	0.296	0.313	0.421	0.254
N+19.65	C16	513	COL 100X50	B.2.4.7-1	0.619	1.193	0.402	0.483
N+19.65	C17	515	COL 100X50	B.2.4.7-5	0.672	1.264	0.415	0.478
N+19.65	C18	517	COL 100X50	B.2.4.7-5	0.677	1.415	0.422	0.549
N+19.65	C19	56	COL125X50	B.2.4.7-1	0.147	1.372	0.189	0.819
N+19.65	C10	386	COL150X50	B.2.4.7-5	0.133	0.24	0.307	0.246
N+16.00	C1	3416	COL125X50	B.2.4.7-5	0.249	0.439	0.396	0.355
N+16.00	C2	3417	COL125X50	B.2.4.7-5	0.171	0.506	0.253	0.393
N+16.00	C3	83	COL125X50	B.2.4.7-1	0.177	0.518	0.292	0.421
N+16.00	C8	64	COL125X50	B.2.4.7-5	0.26	0.384	0.379	0.332
N+16.00	C16	3407	COL 100X50	B.2.4.7-1	0.337	0.685	0.364	0.434
N+16.00	C17	3408	COL 100X50	B.2.4.7-5	0.384	0.658	0.384	0.382
N+16.00	C18	3409	COL 100X50	B.2.4.7-5	0.412	0.687	0.419	0.403
N+16.00	C19	70	COL125X50	B.2.4.7-1	0.089	0.682	0.181	0.61
N+16.00	C10	518	COL150X50	B.2.4.7-5	0.127	0.293	0.301	0.316
N+12.35	C1	79	COL125X50	B.2.4.7-5	0.241	0.426	0.408	0.373
N+12.35	C2	80	COL125X50	B.2.4.7-5	0.175	0.486	0.27	0.397
N+12.35	C3	85	COL125X50	B.2.4.7-1	0.176	0.483	0.319	0.429
N+12.35	C8	25	COL125X50	B.2.4.7-5	0.263	0.353	0.395	0.317
N+12.35	C16	66	COL 100X50	B.2.4.7-1	0.362	0.687	0.445	0.496
N+12.35	C17	67	COL 100X50	B.2.4.7-5	0.371	0.611	0.403	0.381
N+12.35	C18	72	COL 100X50	B.2.4.7-5	0.378	0.654	0.42	0.418
N+12.35	C19	101	COL125X50	B.2.4.7-1	0.086	0.667	0.181	0.626
N+12.35	C10	530	COL150X50	B.2.4.7-5	0.12	0.272	0.297	0.307
N+8.70	C1	217	COL125X50	B.2.4.7-5	0.237	0.357	0.45	0.354
N+8.70	C2	240	COL125X50	B.2.4.7-5	0.168	0.423	0.286	0.385
N+8.70	C3	87	COL125X50	B.2.4.7-1	0.166	0.431	0.318	0.434
N+8.70	C8	24	COL125X50	B.2.4.7-5	0.266	0.331	0.436	0.326
N+8.70	C16	122	COL 100X50	B.2.4.7-1	0.294	0.587	0.403	0.486
N+8.70	C17	130	COL 100X50	B.2.4.7-5	0.25	0.376	0.295	0.254
N+8.70	C18	131	COL 100X50	B.2.4.7-5	0.238	0.303	0.286	0.207
N+8.70	C19	105	COL125X50	B.2.4.7-1	0.083	0.483	0.19	0.483
N+8.70	C20	81	COL 100X50	B.2.4.7-5	1.017	2.2	0.751	1.067
N+8.70	C21	225	COL 100X50	B.2.4.7-5	0.795	2.091	0.488	0.978
N+8.70	C22	248	COL 100X50	B.2.4.7-1	1.03	1.288	0.739	0.607
N+8.70	C24	294	COL 100X50	B.2.4.7-1	0.974	2.059	0.708	1.01
N+8.70	C25	313	COL 100X50	B.2.4.7-1	0.866	1.795	0.661	0.956
N+8.70	C10	538	COL150X50	B.2.4.7-5	0.126	0.273	0.342	0.343
N+8.70	C5	630	COL 100X50	B.2.4.7-5	0.967	1.82	0.701	0.845
N+8.70	C6	637	COL 100X50	B.2.4.7-1	1.025	1.608	0.738	0.709
N+3.60	C1	213	COL125X50	B.2.4.7-5	0.232	0.38	0.461	0.399
N+3.60	C2	214	COL125X50	B.2.4.7-1	0.142	0.279	0.248	0.253
N+3.60	C3	89	COL125X50	B.2.4.7-1	0.145	0.345	0.283	0.361
N+3.60	C16	203	COL 100X50	B.2.4.7-1	0.254	0.517	0.366	0.451
N+3.60	C17	204	COL 100X50	B.2.4.7-5	0.259	0.472	0.314	0.33

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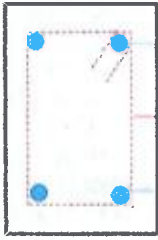
TABLE: Concrete Joint Envelope - ACI 318-14

Story	Label	UniqueName	Section	B/C Major Combo	B/C Major Ratio	B/C Minor Ratio	JS Major Ratio	JS Minor Ratio
N+3.60	C18	205	COL 100X50	B.2.4.7-5	0.235	0.436	0.287	0.309
N+3.60	C19	109	COL125X50	B.2.4.7-1	0.159	0.347	0.272	0.334
N+3.60	C20	3384	COL 100X50	B.2.4.7-5	0.23	0.498	0.289	0.371
N+3.60	C21	3306	COL 100X50	B.2.4.7-5	0.244	0.266	0.279	0.177
N+3.60	C22	206	COL 100X50	B.2.4.7-1	0.192	0.58	0.225	0.404
N+3.60	C24	3386	COL 100X50	B.2.4.7-1	0.374	0.644	0.463	0.462
N+3.60	C25	3389	COL 100X50	B.2.4.7-1	0.168	0.541	0.206	0.397
N+3.60	C40	3312	COL 100X50	B.2.4.7-1	0.323	0.463	0.224	0.149
N+3.60	C41	3317	COL 100X50	B.2.4.7-1	0.328	1.185	0.238	0.43
N+3.60	C42	3394	COL 100X50	B.2.4.7-1	0.353	1.317	0.259	0.484
N+3.60	C43	3402	COL 100X50	B.2.4.7-5	0.248	0.616	0.176	0.206
N+3.60	C71	1150	COL125X50	B.2.4.7-5	0.249	0.478	0.449	0.512
N+3.60	C79	199	COL 100X50	B.2.4.7-5	0.409	1.051	0.295	0.378
N+3.60	C80	200	COL 100X50	B.2.4.7-5	0.369	0.949	0.267	0.32
N+3.60	C81	201	COL 100X50	B.2.4.7-5	0.344	1.028	0.249	0.371
N+3.60	C82	202	COL 100X50	B.2.4.7-1	0.516	0.47	0.293	0.157
N+3.60	C84	3305	COL 100X50	B.2.4.7-5	0.304	0.318	0.206	0.1
N+3.60	C11	548	COL150X50	B.2.4.7-5	0.161	0.225	0.491	0.308
N+3.60	C5	414	COL 100X50	B.2.4.7-5	0.197	0.475	0.243	0.346
N+3.60	C6	582	COL 100X50	B.2.4.7-5	0.191	0.507	0.231	0.363
N+0.00	C28	1	COL 100X50	B.2.4.7-5	0.201	0.461	0.24	0.325
N+0.00	C29	2	COL 100X50	B.2.4.7-5	0.159	0.396	0.191	0.282
N+0.00	C30	3	COL 100X50	B.2.4.7-1	0.174	0.42	0.209	0.301
N+0.00	C33	4	COL125X50	B.2.4.7-5	0.028	0.053	0.065	0.06
N+0.00	C35	5	COL125X50	B.2.4.7-5	0.038	0.087	0.08	0.087
N+0.00	C36	26	COL 100X50	B.2.4.7-1	0.159	0.193	0.226	0.162
N+0.00	C48	91	COL125X50	B.2.4.7-1	0.065	0.227	0.175	0.29
N+0.00	C49	117	COL125X50	B.2.4.7-5	0.051	0.106	0.099	0.097
N+0.00	C50	19	COL 100X50	B.2.4.7-1	0.202	0.243	0.248	0.175
N+0.00	C52	153	COL 100X50	B.2.4.7-1	0.124	0.108	0.131	0.053
N+0.00	C53	154	COL 100X50	B.2.4.7-5	0.152	0.204	0.173	0.136
N+0.00	C54	155	COL 100X50	B.2.4.7-5	0.178	0.209	0.222	0.155
N+0.00	C55	156	COL 100X50	B.2.4.7-1	0.105	0.127	0.113	0.064
N+0.00	C56	161	COL 100X50	B.2.4.7-1	0.121	0.177	0.132	0.09
N+0.00	C57	163	COL 100X50	B.2.4.7-1	0.17	0.343	0.209	0.253
N+0.00	C58	164	COL 100X50	B.2.4.7-5	0.068	0.114	0.072	0.056
N+0.00	C61	58	COL50X30	B.2.4.7-1	0.575	0.349	0.115	0.126
N+0.00	C64	86	COL50X30	B.2.4.5-1	1.215	0.248	0.25	0.09
N+0.00	C65	92	COL50X30	B.2.4.5-5	0.169	0.072	0.042	0.032
N+0.00	C66	93	COL50X30	B.2.4.5-5	0.226	0.459	0.055	0.203
N+0.00	C67	178	COL50X30	B.2.4.5-1	6.71	0.826	1.426	0.304
N+0.00	C75	28	COL 100X50	B.2.4.7-5	0.143	0.153	0.154	0.077
N+0.00	C76	29	COL 100X50	B.2.4.7-5	0.169	0.303	0.185	0.154
N+0.00	C77	30	COL 100X50	B.2.4.7-5	0.169	0.173	0.184	0.087
N+0.00	C78	31	COL 100X50	B.2.4.7-1	0.086	0.26	0.072	0.132
N+0.00	C83	152	COL 100X50	B.2.4.7-5	0.051	0.06	0.052	0.028
N+0.00	C85	41	COL50X30	B.2.4.5-1	0.394	0.098	0.097	0.13
N+0.00	C12	669	COL 100X50	B.2.4.7-5	0.171	0.406	0.211	0.302
N+0.00	C13	956	COL 100X50	B.2.4.7-5	0.161	0.382	0.196	0.278

6.3 DISEÑO DE VIGAS AÉREAS.

Definición de secciones y refuerzo base:

A continuación, se hace una revisión normativa a las secciones de vigas utilizadas en el diseño:

SECCIÓN: VIGA AEREA		50	x	90
Base	50 cm			
Altura	90 cm			
Recubrimiento	5 cm			
f_c	4000 psi			
f_y	28 MPa			
p_{min}	420 MPa			
$A_{s,min}$	0.0033			
	14 cm ²			
Refuerzo Base 3 # 8		pb 0.0283		
As1 15 cm ²		$p_{max} = 0.63 \cdot pb = 0.0179$		
OK, Cumple Acero minimo		As.max 76 cm ²		
		OK, Cumple Cuantia Máxima		

Refuerzo	3 # 8	31 cm ²
Superior	3 # 8	
Refuerzo	3 # 8	15 cm ²
Inferior	0 # 0	
0,63*pb*b*d: 76 cm ²		
(As1 - As2) < 0,63*pb*b*d		
Ok, El diseño es SubReforzado		

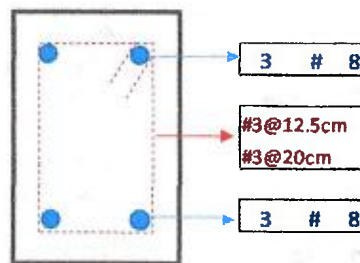
Separación Zona Confinada x<2H y Zona de Traslapos	Separación Zona NO Confinada x>2H
X: cara del apoyo 180.0 cm	Distancia 2H 180.0 cm
d/4 21.3 cm	
8*bd 20.3 cm	
24*dbe E # 3 22.8 cm	d/2 42.5 cm
Menor a 30cm 30.0 cm	
Separacion Máxima 20.3 cm	Separacion Máxima 42.5 cm
Separacion Usada 12.5 cm	Separacion Usada 20.0 cm

Revisión Cortante	
	
$V_u = 45.9 \text{ ton}$	$\frac{V_{ud}}{b_w d} = 10.8 \text{ kg/cm}^2$
$\frac{\phi \sqrt{f'_c}}{6} = 6.7 \text{ kg/cm}^2$	$\frac{\phi A_v \cdot f_y}{b_w s} = 10.8 \text{ kg/cm}^2$
$\frac{\phi V_n}{b_w d} = \frac{\phi \sqrt{f'_c}}{6} + \frac{\phi A_v \cdot f_y}{b_w s}$	$\frac{\phi V_n}{b_w d} = 17.5 \text{ kg/cm}^2$
$\frac{V_u}{b_w d} < \frac{\phi V_n}{b_w d}$: Cumple	

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SECCIÓN: VIGA AEREA 50 x 100

Base	50 cm
Altura	100 cm
Recubrimiento	5 cm
f_c	4000 psi
	28 MPa
f_y	420 MPa
ρ_{min}	0.0033
$A_{s,min}$	15 cm ²



Refuerzo Base 3 # 8
 $A_{st} 15 \text{ cm}^2$
 OK, Cumple Acero mínimo

$\rho_b 0.0283$
 $\rho_{max} = 0.63 \cdot \rho_b 0.0179$
 $A_{s,max} 85 \text{ cm}^2$
 OK, Cumple Cuantía Máxima

Refuerzo Superior	3 # 8	31 cm ²
Refuerzo Inferior	3 # 8	15 cm ²
$0.63 \cdot \rho_b \cdot b \cdot d: 85 \text{ cm}^2$ $(A_{st1} - A_{st2}) < 0.63 \cdot \rho_b \cdot b \cdot d$ Ok, El diseño es SubReforzado		

Separación Zona Confinada $x < 2H$ y Zona de Traslapos	
X: cara del apoyo	200.0 cm
d/4	23.8 cm
8*bd	20.3 cm
24*dbE # 3	22.8 cm
Menor a 30cm	30.0 cm
Separacion Máxima	20.3 cm
Separacion Usada	12.5 cm

Separación Zona NO Confinada $x > 2H$	
Distancia 2H	200.0 cm
d/2	47.5 cm
Separacion Máxima	47.5 cm
Separacion Usada	20.0 cm

Revisión Cortante

Shear V2

Max = 45.9103 tonf
Min = 9.7534 tonf

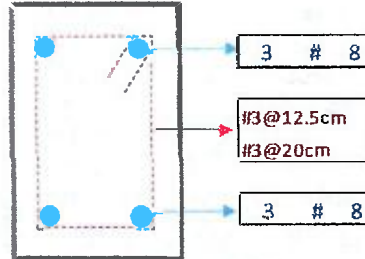
$V_u = 45.9 \text{ ton}$
 $\frac{\phi \sqrt{f'_c}}{6} = 6.7 \text{ kg/cm}^2$
 $\frac{\phi V_n}{b_w d} = \frac{\phi \sqrt{f'_c}}{6} + \frac{\phi A_v \cdot f_y}{b_w s}$
 $\frac{V_u}{b_w d} < \frac{\phi V_n}{b_w d}$ Cumple

$\frac{V_{ud}}{b_w d} = 9.7 \text{ kg/cm}^2$
 $\frac{\phi A_v \cdot f_y}{b_w s} = 10.8 \text{ kg/cm}^2$
 $\frac{\phi V_n}{b_w d} = 17.5 \text{ kg/cm}^2$

SECCIÓN: VIGA AEREA

40 x 90

Base	40 cm
Altura	90 cm
Recubrimiento	5 cm
f'c	4000 psi
fy	28 MPa
pmin	420 MPa
As.min	0.0033
	11 cm²



Refuerzo Base	3 # 8
Ast. Base:	15 cm²
	OK, Cumple Acero minimo

pb	0.0283
p.max=	0.63*pb 0.0179
As.max	61 cm²
	OK, Cumple Cuantia Máxima

Refuerzo Superior	3 # 8	31 cm²
Refuerzo Inferior	3 # 8	15 cm²
	0 # 0	
0.63*pb*b*d: 61 cm²		
(Ast1 - Ast2) < 0.63*pb*b*d		
Ok, El diseño es SubReforzado		

Separación Zona Confinada x<2H y Zona de Traslapos	Separación Zona NO Confinada x>2H
X: cara del apoyo 180.0 cm	Distancia 2H 180.0 cm
d/4 21.3 cm	
8*bd 20.3 cm	
24*dbe E # 3 22.8 cm	d/2 42.5 cm
Menor a 30cm 30.0 cm	
Separacion Máxima 20.3 cm	Separacion Máxima 42.5 cm
Separacion Usada 12.5 cm	Separacion Usada 20.0 cm

Revisión Cortante

Max = 37.6379 tonf
at 6.8800 m
Min = -35.4444 tonf
at 0.7500 m

$V_u = 37.7 \text{ ton}$

$\frac{\phi \sqrt{f'c}}{6} = 6.7 \text{ kg/cm}^2$

$\frac{\phi V_n}{b_w d} = \frac{\phi \sqrt{f'c}}{6} + \frac{\phi A_v * f_y}{b_w s}$

$\frac{V_u}{b_w d} < \frac{\phi V_n}{b_w d}$ Cumple

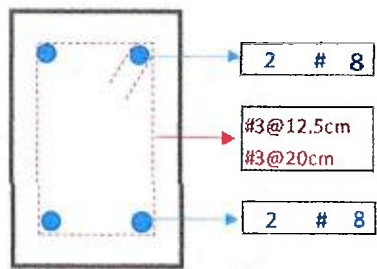
$\frac{V_{ud}}{b_w d} = 11.1 \text{ kg/cm}^2$

$\frac{\phi A_v * f_y}{b_w s} = 13.5 \text{ kg/cm}^2$

$\frac{\phi V_n}{b_w d} = 20.2 \text{ kg/cm}^2$

SECCIÓN: VIGA AEREA 30 x 90

Base	30 cm
Altura	90 cm
Recubrimiento	5 cm
f'c	4000 psi
	28 MPa
fy	420 MPa
pmin	0.0033
As.min	8.2 cm²



Refuerzo Base **2 # 8**
 Ast. Base: 10 cm²
 OK, Cumple Acero mínimo

pb 0.0283
 p.max= 0.63*pb 0.0179
 As.max 46 cm²
 OK, Cumple Cuantía Máxima

Refuerzo	2 # 8	10 cm²
Superior	0 # 8	
Refuerzo	2 # 8	26 cm²
Inferior	3 # 8	
0.63*pb*b*d: 46 cm² (Ast1 - Ast2) < 0.63*pb*b*d Ok, El diseño es SubReforzado		

Separación Zona Confinada x<2H y Zona de Traslapos	
X: cara del apoyo	180.0 cm
d/4	21.3 cm
8*bd	20.3 cm
24*dbE # 3	22.8 cm
Menor a 30cm	30.0 cm
Separacion Máxima	20.3 cm
Separacion Usada	12.5 cm

Separación Zona NO Confinada x>2H	
Distancia 2H	180.0 cm
d/2	42.5 cm
Separacion Máxima	42.5 cm
Separacion Usada	20.0 cm

Revisión Cortante

Max = 45.4222 tonf
 Min = 9.4637 tonf

$V_u = 45.4 \text{ ton}$

$\frac{\phi \sqrt{f'c}}{6} = 6.7 \text{ kg/cm}^2$

$\frac{\phi V_n}{b_w d} = \frac{\phi \sqrt{f'c}}{6} + \frac{\phi A_v * f_y}{b_w s}$

$\frac{V_u}{b_w d} < \frac{\phi V_n}{b_w d}$: Cumple

$\frac{V_{ud}}{b_w d} = 17.8 \text{ kg/cm}^2$

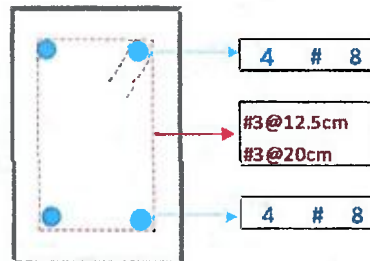
$\frac{\phi A_v * f_y}{b_w s} = 12.0 \text{ kg/cm}^2$

$\frac{\phi V_n}{b_w d} = 18.7 \text{ kg/cm}^2$

SECCIÓN: VIGA AEREA

60 x 90

Base	60 cm
Altura	90 cm
Recubrimiento	5 cm
f'c	4000 psi
	28 MPa
fy	420 MPa
pmin	0.0033
As.min	16.3 cm²



Refuerzo Base	4 # 8
Ast. Base:	20 cm²
OK, Cumple Acero minimo	

pb	0.0283
p.max=	0.63*pb 0.0179
As.max	91 cm²
OK, Cumple Cuantia Máxima	

Refuerzo	4 # 8	20 cm²
Superior	0 # 8	
Refuerzo	4 # 8	41 cm²
Inferior	4 # 8	
0.63*pb*b*d: 91 cm²		
(Ast1 - Ast2) < 0.63*pb*b*d		
Ok, El diseño es SubReforzado		

Separación Zona Confinada x<2H y Zona de Traslapos
X: cara del apoyo 180.0 cm
d/4 21.3 cm
8*bd 20.3 cm
24*dbe E # 3 22.8 cm
Menor a 30cm 30.0 cm
Separacion Máxima 20.3 cm
Separacion Usada 12.5 cm

Separación Zona NO Confinada x>2H
Distancia 2H 180.0 cm
d/2 42.5 cm
Separacion Máxima 42.5 cm
Separacion Usada 20.0 cm

Revisión Cortante

Shear V2

Max = -13.6449 tonf
Min = -50.5308 tonf

$$Vu = 50.5 \text{ ton}$$

$$\frac{Vu}{b_w d} = 9.9 \text{ kg/cm}^2$$

$$\frac{\phi \sqrt{f'c}}{6} = 6.7 \text{ kg/cm}^2$$

$$\frac{\phi Av * fy}{b_w s} = 6.0 \text{ kg/cm}^2$$

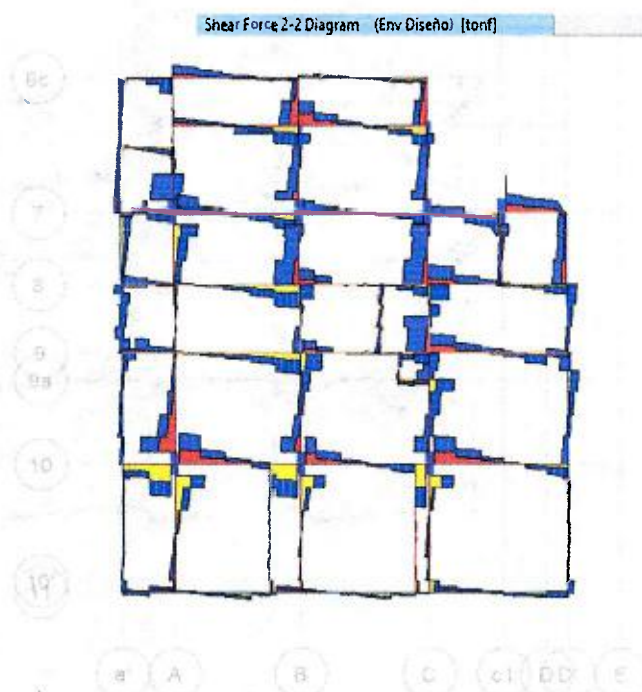
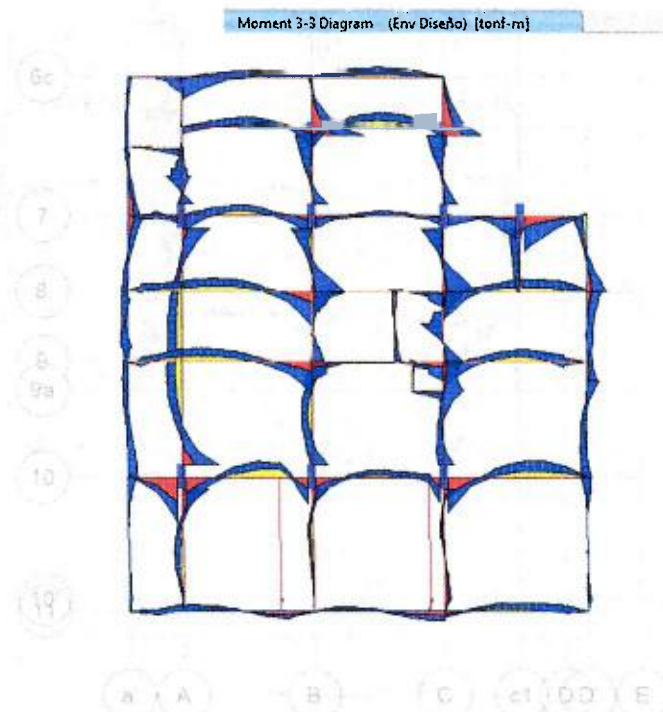
$$\frac{\phi Vn}{b_w d} = \frac{\phi \sqrt{f'c}}{6} + \frac{\phi Av * fy}{b_w s} = 12.7 \text{ kg/cm}^2$$

$$\frac{Vu}{b_w d} < \frac{\phi Vn}{b_w d} \text{ Cumple}$$

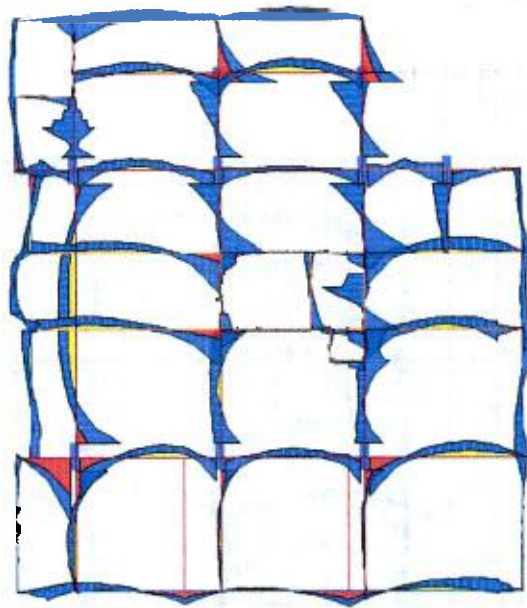
Diseño de Vigas Edificio A

El reporte de diseño de vigas se encuentra en el Anexo 9.1

Diagrama de Esfuerzos Cortante y Momentos

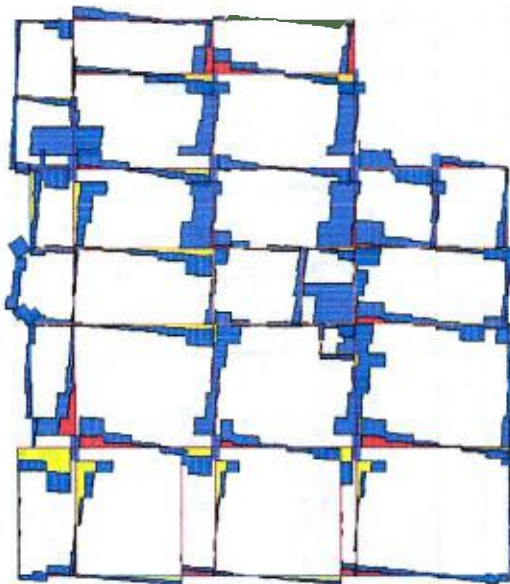


Moment 3-3 Diagram (Env Diseño) [tonf·m]



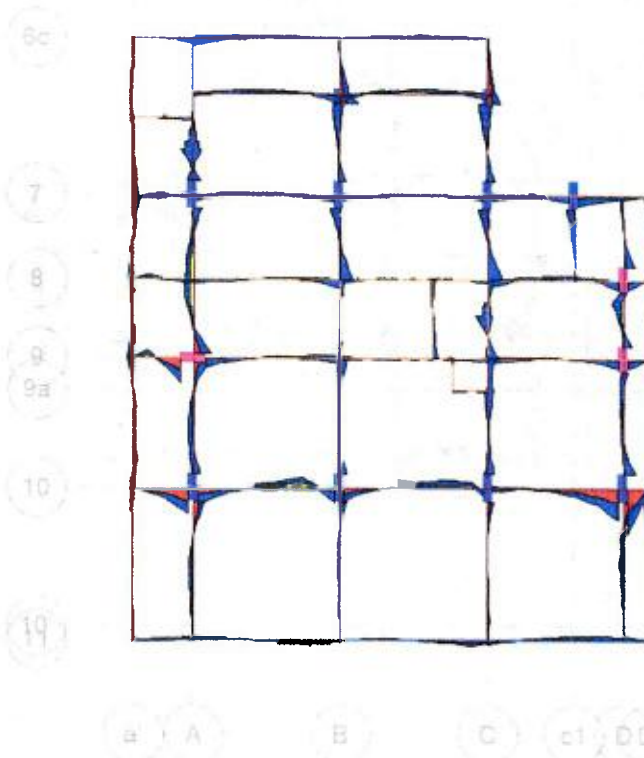
a' A B C c1 D D' E

Shear Force 2-2 Diagram (Env Diseño) [tonf]

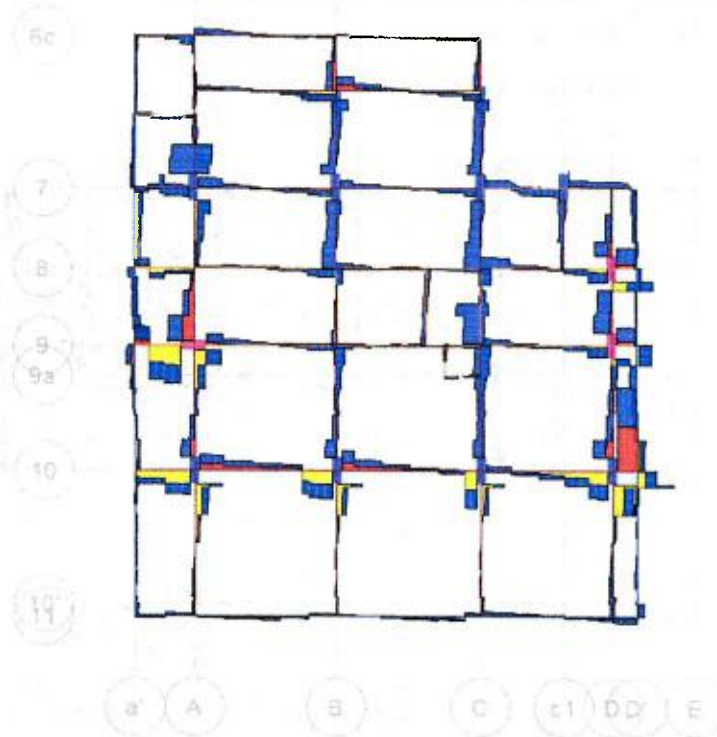


a' A B C c1 D D' E

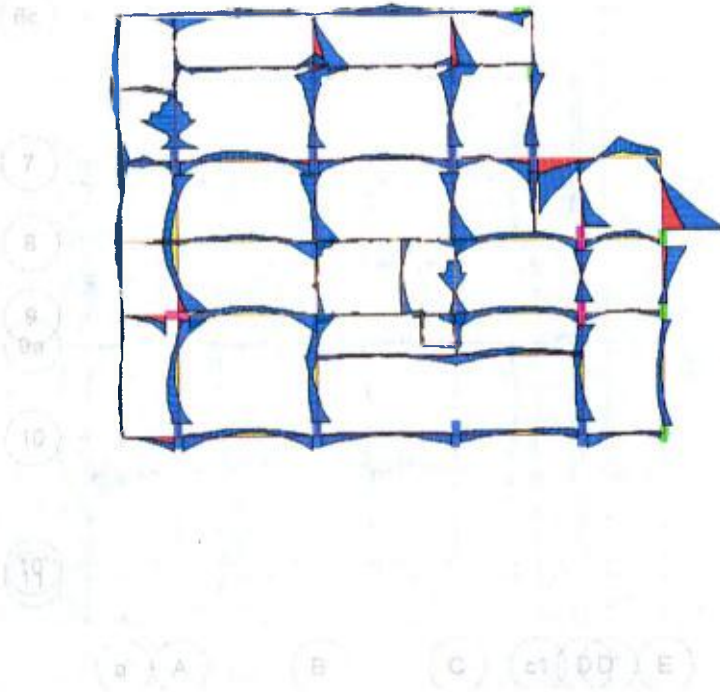
Moment 3-3 Diagram (Env Diseño) [tonf-m]



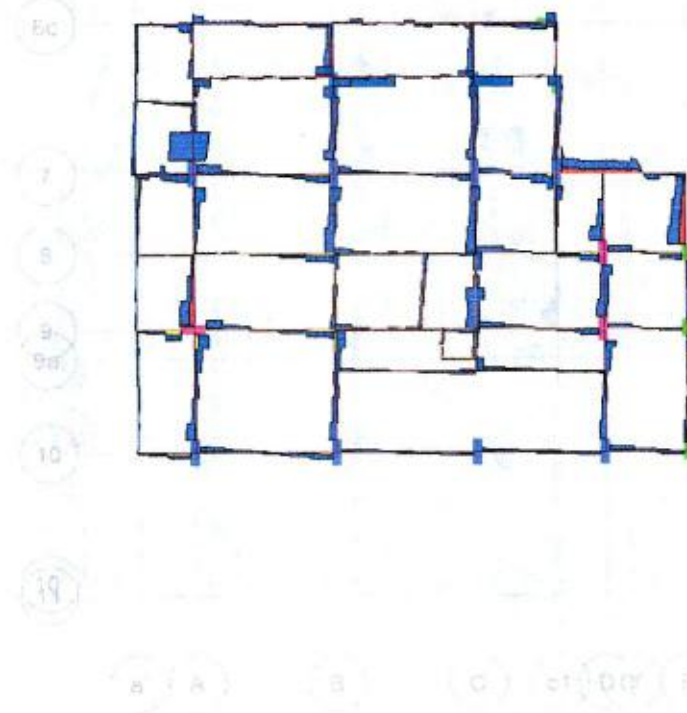
Shear Force 2-2 Diagram (Env Diseño) [tonf]



Moment 3-3 Diagram (Env Diseño) [tonf-m]



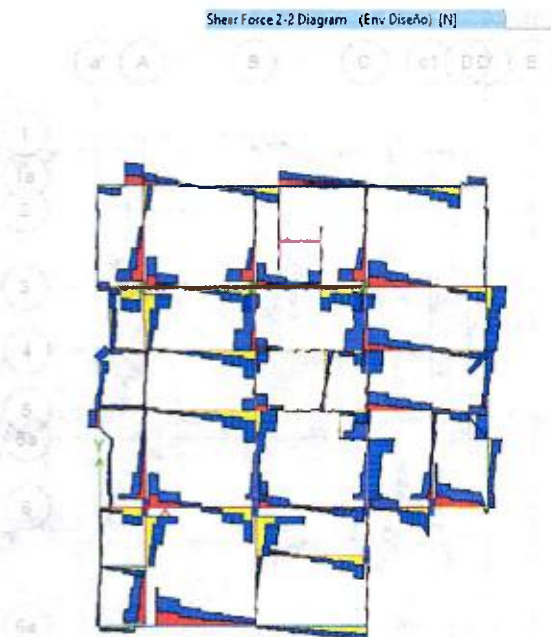
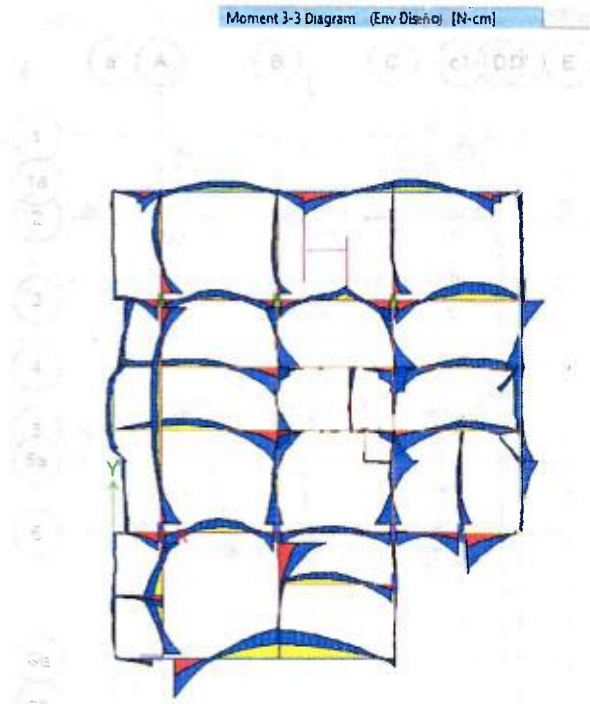
Shear Force 2-2 Diagram (Env Diseño) [tonf]



Diseño de Vigas Edificio B

El reporte de diseño de vigas se encuentra en el Anexo 9.1

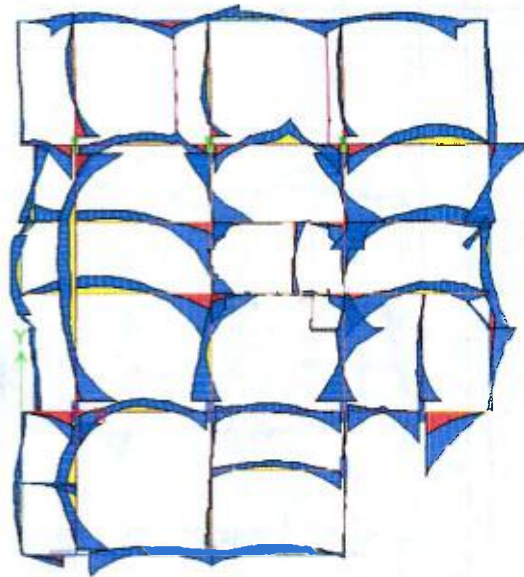
Diagrama de Esfuerzos Cortante y Momentos



Moment 3-3 Diagram (Env Diseño) [N-cm]

a A B C c1 DD E

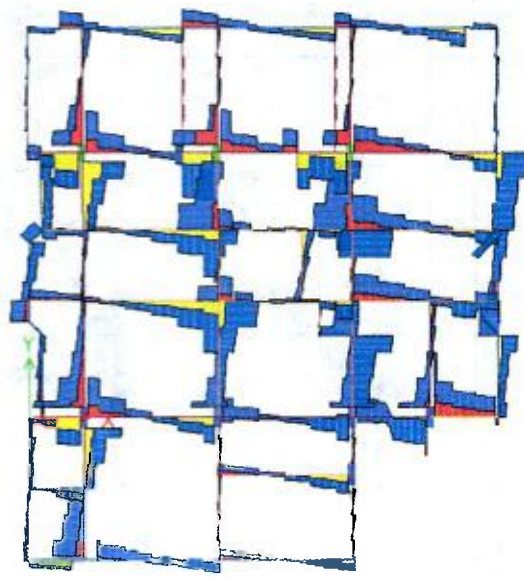
1
1a
1b
2
3
4
5
5a
6
6a



Shear Force 2-2 Diagram (Env Diseño) [N]

a A B C c1 DD E

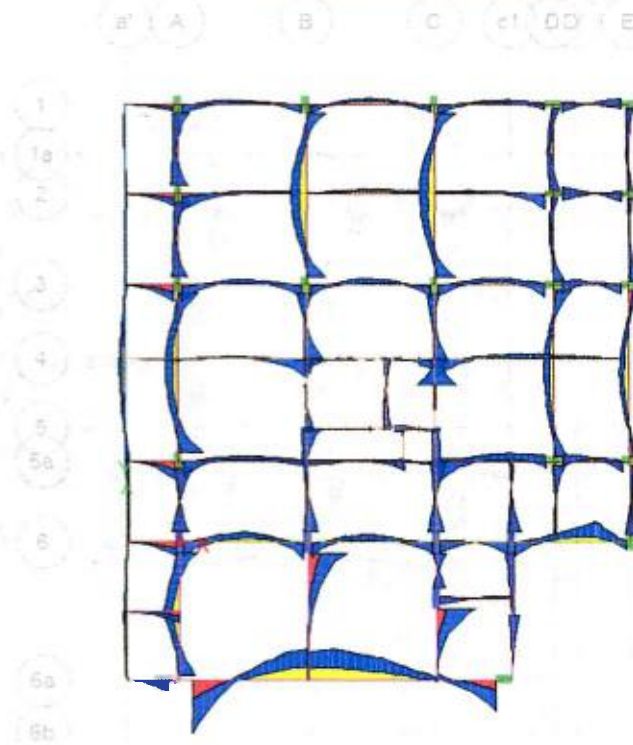
1
1a
1b
2
3
4
5
5a
6
6a



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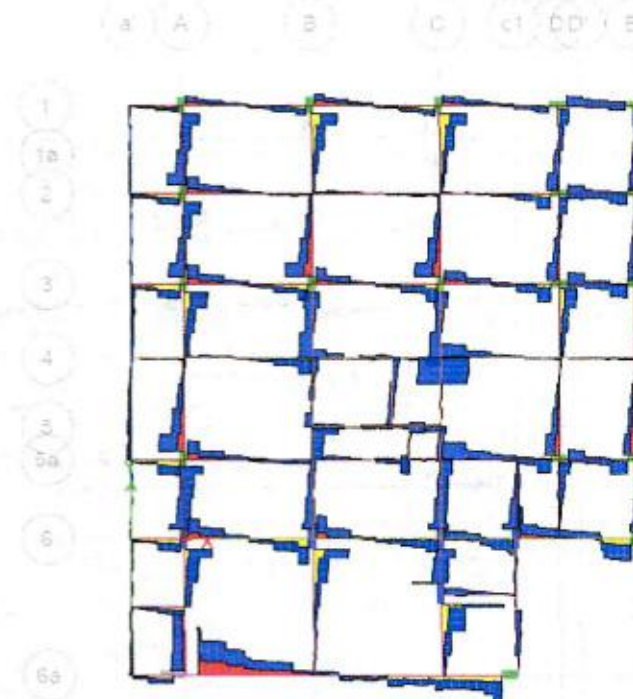
N+3.60

Moment 3-3 Diagram (Env Diseño) [N-cm]



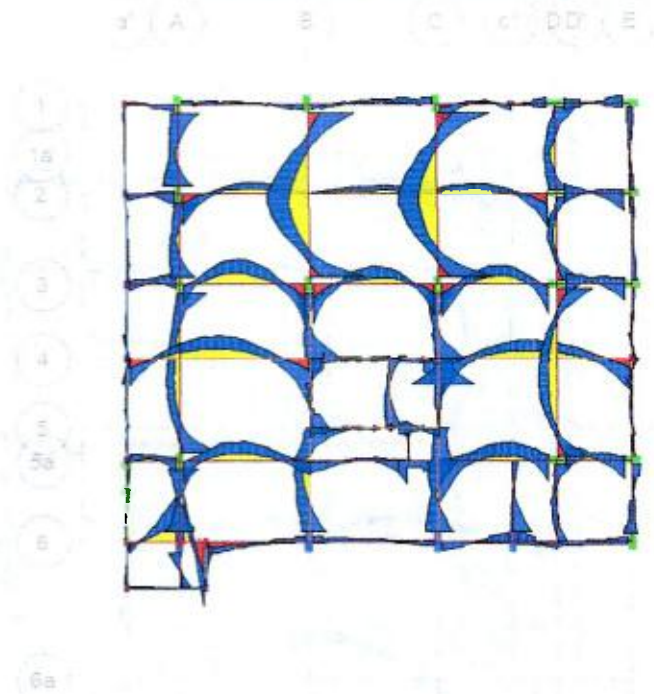
N+3.60

Shear Force 2-2 Diagram (Env Diseño) [N]



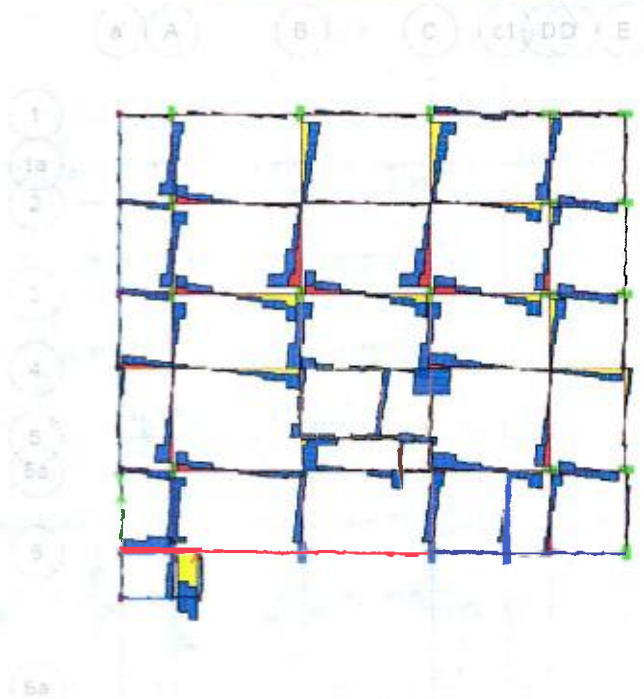
N+0.00

Moment 3-3 Diagram (Env Diseño) [N cm]



N+0.00

Shear Force 2-2 Diagram (Env Diseño) [N]



6.4 DISEÑO DE MUROS ESTRUCTURALES

Diseño Muros Edificio A

A continuación, se muestran la definición de piers para el diseño de los muros de 15cm.

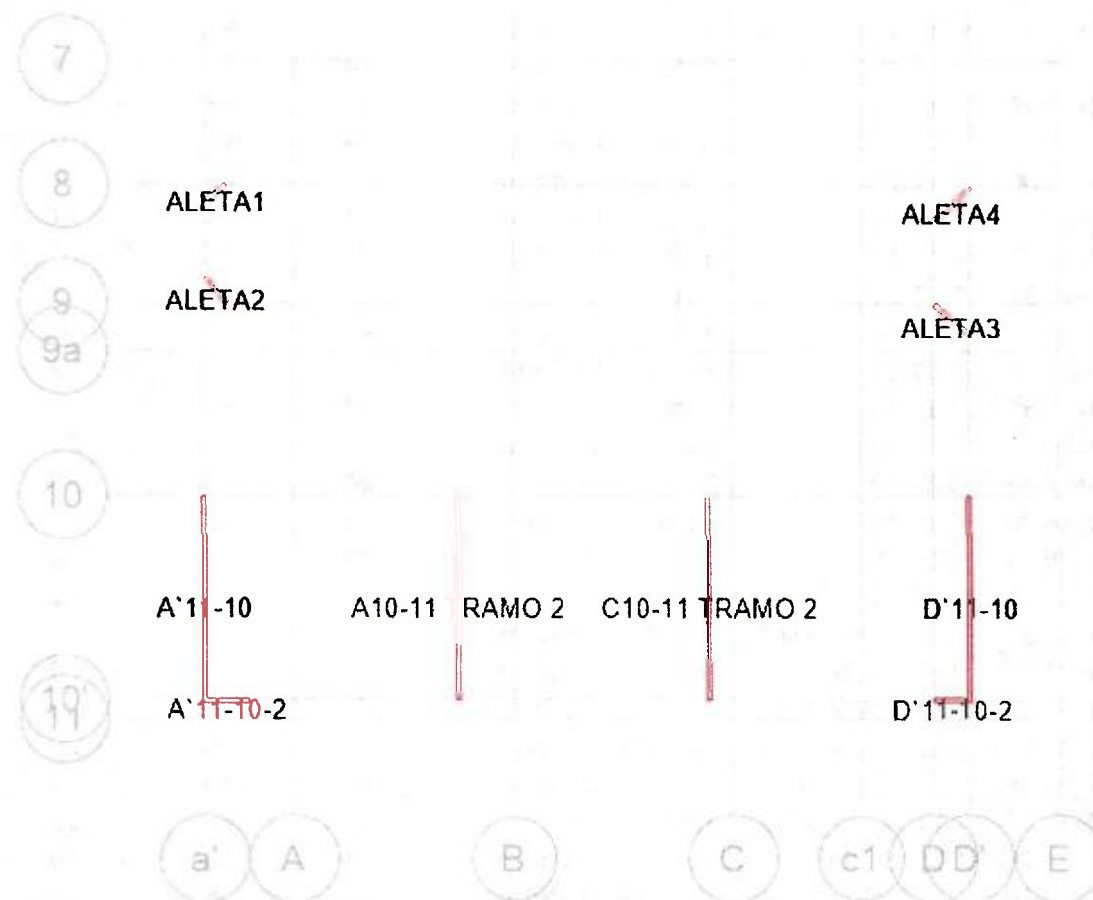


Figura 50 Definición de Pier muros 15cm

Tabla 30 Diseño de muros 15cm Edificio A

TABLE: Shear Wall Pier Design Summary - ACI 318-14							
Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+21.30	A`11-10	Top	Uniform	#4	#6	20	0.440
N+21.30	A`11-10	Bottom	Uniform	#4	#6	20	0.360
N+17.65	A`11-10	Top	Uniform	#4	#6	20	0.512
N+17.65	A`11-10	Bottom	Uniform	#4	#6	20	0.390
N+14.00	A`11-10	Top	Uniform	#4	#6	20	0.570
N+14.00	A`11-10	Bottom	Uniform	#4	#6	20	0.536
N+10.35	A`11-10	Top	Uniform	#4	#6	20	0.480
N+10.35	A`11-10	Bottom	Uniform	#4	#6	20	0.540
N+21.30	D`11-10	Top	Uniform	#4	#6	20	0.099
N+21.30	D`11-10	Bottom	Uniform	#4	#6	20	0.108
N+17.65	D`11-10	Top	Uniform	#4	#6	20	0.135
N+17.65	D`11-10	Bottom	Uniform	#4	#6	20	0.187
N+14.00	D`11-10	Top	Uniform	#4	#6	20	0.221
N+14.00	D`11-10	Bottom	Uniform	#4	#6	20	0.306
N+10.35	D`11-10	Top	Uniform	#4	#6	20	0.446
N+10.35	D`11-10	Bottom	Uniform	#4	#6	20	0.965
N+21.30	A10-11 TRAMO 1	Top	Uniform	#4	#6	20	0.376
N+21.30	A10-11 TRAMO 1	Bottom	Uniform	#4	#6	20	0.283
N+17.65	A10-11 TRAMO 1	Top	Uniform	#4	#6	20	0.263
N+17.65	A10-11 TRAMO 1	Bottom	Uniform	#4	#6	20	0.456
N+10.35	A10-11 TRAMO 2	Top	Uniform	#4	#6	20	0.279
N+10.35	A10-11 TRAMO 2	Bottom	Uniform	#4	#6	20	0.522
N+21.30	C10-11 TRAMO 1	Top	Uniform	#4	#6	20	0.564
N+21.30	C10-11 TRAMO 1	Bottom	Uniform	#4	#6	20	0.468
N+17.65	C10-11 TRAMO 1	Top	Uniform	#4	#6	20	0.407
N+17.65	C10-11 TRAMO 1	Bottom	Uniform	#4	#6	20	0.686
N+10.35	C10-11 TRAMO 2	Top	Uniform	#4	#6	20	0.460
N+10.35	C10-11 TRAMO 2	Bottom	Uniform	#4	#6	20	0.607
N+21.30	ALETA1	Top	Uniform	#4	#6	20	0.749
N+21.30	ALETA1	Bottom	Uniform	#4	#6	20	0.621
N+17.65	ALETA1	Top	Uniform	#4	#6	20	0.592
N+17.65	ALETA1	Bottom	Uniform	#4	#6	20	0.601
N+14.00	ALETA1	Top	Uniform	#4	#6	20	0.609
N+14.00	ALETA1	Bottom	Uniform	#4	#6	20	0.574
N+10.35	ALETA1	Top	Uniform	#5	#6	5	0.426
N+10.35	ALETA1	Bottom	Uniform	#5	#6	5	0.556
N+21.30	ALETA2	Top	Uniform	#4	#6	20	0.338
N+21.30	ALETA2	Bottom	Uniform	#4	#6	20	0.270

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TABLE: Shear Wall Pier Design Summary - ACI 318-14

Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+17.65	ALETA2	Top	Uniform	#4	#6	20	0.298
N+17.65	ALETA2	Bottom	Uniform	#4	#6	20	0.311
N+14.00	ALETA2	Top	Uniform	#4	#6	20	0.396
N+14.00	ALETA2	Bottom	Uniform	#4	#6	20	0.501
N+10.35	ALETA2	Top	Uniform	#5	#6	5	0.460
N+10.35	ALETA2	Bottom	Uniform	#5	#6	5	0.899
N+21.30	A`11-10-2	Top	Uniform	#4	#6	20	0.295
N+21.30	A`11-10-2	Bottom	Uniform	#4	#6	20	0.199
N+17.65	A`11-10-2	Top	Uniform	#4	#6	20	0.240
N+17.65	A`11-10-2	Bottom	Uniform	#4	#6	20	0.353
N+14.00	A`11-10-2	Top	Uniform	#4	#6	20	0.239
N+14.00	A`11-10-2	Bottom	Uniform	#4	#6	20	0.288
N+10.35	A`11-10-2	Top	Uniform	#4	#6	20	0.294
N+10.35	A`11-10-2	Bottom	Uniform	#4	#6	20	0.727
N+21.30	D`11-10-2	Top	Uniform	#4	#6	20	0.262
N+21.30	D`11-10-2	Bottom	Uniform	#4	#6	20	0.249
N+17.65	D`11-10-2	Top	Uniform	#4	#6	20	0.286
N+17.65	D`11-10-2	Bottom	Uniform	#4	#6	20	0.494
N+14.00	D`11-10-2	Top	Uniform	#4	#6	20	0.452
N+14.00	D`11-10-2	Bottom	Uniform	#4	#6	20	0.443
N+10.35	D`11-10-2	Top	Uniform	#4	#6	20	0.432
N+10.35	D`11-10-2	Bottom	Uniform	#4	#6	20	0.592
N+21.30	ALETA3	Top	Uniform	#4	#6	20	0.266
N+21.30	ALETA3	Bottom	Uniform	#4	#6	20	0.232
N+17.65	ALETA3	Top	Uniform	#4	#6	20	0.297
N+17.65	ALETA3	Bottom	Uniform	#4	#6	20	0.305
N+14.00	ALETA3	Top	Uniform	#4	#6	20	0.418
N+14.00	ALETA3	Bottom	Uniform	#4	#6	20	0.458
N+10.35	ALETA3	Top	Uniform	#5	#6	5	0.380
N+10.35	ALETA3	Bottom	Uniform	#5	#6	5	0.598
N+21.30	ALETA4	Top	Uniform	#4	#6	20	0.621
N+21.30	ALETA4	Bottom	Uniform	#4	#6	20	0.380
N+17.65	ALETA4	Top	Uniform	#4	#6	20	0.437
N+17.65	ALETA4	Bottom	Uniform	#4	#6	20	0.493
N+14.00	ALETA4	Top	Uniform	#4	#6	20	0.506
N+14.00	ALETA4	Bottom	Uniform	#4	#6	20	0.428
N+10.35	ALETA4	Top	Uniform	#5	#6	5	0.369
N+10.35	ALETA4	Bottom	Uniform	#5	#6	5	0.518

A continuación, se muestran la definición de piers para el diseño de los muros de 25cm.

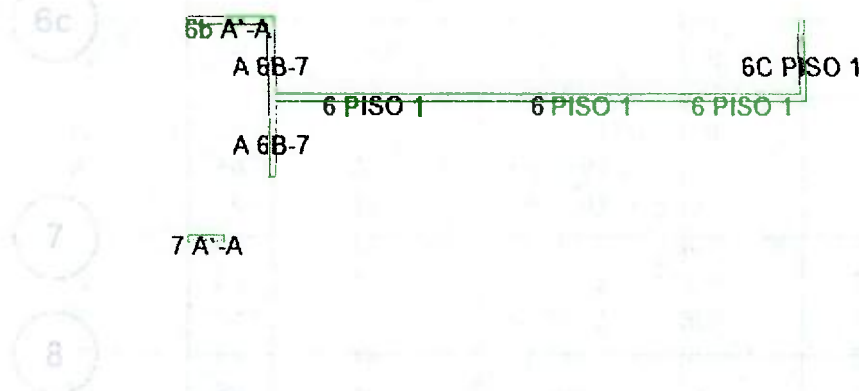


Figura 51 Definición de Pier muros 25cm

Tabla 31 Diseño de Muros 25cm Edificio A.

TABLE: Shear Wall Pier Design Summary - ACI 318-14							
Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+24.30	A 6B-7	Top	Uniform	#4	#8	20	0.227
N+24.30	A 6B-7	Bottom	Uniform	#4	#8	20	0.284
N+21.30	A 6B-7	Top	Uniform	#4	#8	20	0.364
N+21.30	A 6B-7	Bottom	Uniform	#4	#8	20	0.359
N+17.65	A 6B-7	Top	Uniform	#4	#8	20	0.317
N+17.65	A 6B-7	Bottom	Uniform	#4	#8	20	0.274
N+14.00	A 6B-7	Top	Uniform	#4	#8	20	0.298
N+14.00	A 6B-7	Bottom	Uniform	#4	#8	20	0.254
N+10.35	A 6B-7	Top	Uniform	#4	#8	20	0.259
N+10.35	A 6B-7	Bottom	Uniform	#4	#8	20	0.334
N+6.10	A 6B-7	Top	Uniform	#4	#8	20	0.276
N+6.10	A 6B-7	Bottom	Uniform	#4	#8	20	0.384
N+1.85	A 6B-7	Top	Uniform	#4	#8	20	0.231
N+1.85	A 6B-7	Bottom	Uniform	#4	#8	20	0.467
N+24.30	7 A'-A	Top	Uniform	#4	#8	20	0.172
N+24.30	7 A'-A	Bottom	Uniform	#4	#8	20	0.248
N+21.30	7 A'-A	Top	Uniform	#4	#8	20	0.278
N+21.30	7 A'-A	Bottom	Uniform	#4	#8	20	0.25
N+17.65	7 A'-A	Top	Uniform	#4	#8	20	0.315
N+17.65	7 A'-A	Bottom	Uniform	#4	#8	20	0.319
N+14.00	7 A'-A	Top	Uniform	#4	#8	20	0.375
N+14.00	7 A'-A	Bottom	Uniform	#4	#8	20	0.384
N+10.35	7 A'-A	Top	Uniform	#4	#8	20	0.412
N+10.35	7 A'-A	Bottom	Uniform	#4	#8	20	0.436
N+6.10	7 A'-A	Top	Uniform	#4	#8	20	0.512
N+6.10	7 A'-A	Bottom	Uniform	#4	#8	20	0.51
N+1.85	7 A'-A	Top	Uniform	#4	#8	20	0.562

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Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+1.85	7 A'-A	Bottom	Uniform	#4	#8	20	0.568
N+1.85	6C PISO 1	Top	Uniform	#4	#8	20	0.182
N+1.85	6C PISO 1	Bottom	Uniform	#4	#8	20	0.465
N+1.85	6 PISO 1	Top	Uniform	#4	#8	20	0.1
N+1.85	6 PISO 1	Bottom	Uniform	#4	#8	20	0.111
N+24.30	6b A'-A	Top	Uniform	#4	#8	20	0.189
N+24.30	6b A'-A	Bottom	Uniform	#4	#8	20	0.101
N+21.30	6b A'-A	Top	Uniform	#4	#8	20	0.041
N+21.30	6b A'-A	Bottom	Uniform	#4	#8	20	0.079
N+17.65	6b A'-A	Top	Uniform	#4	#8	20	0.095
N+17.65	6b A'-A	Bottom	Uniform	#4	#8	20	0.124
N+14.00	6b A'-A	Top	Uniform	#4	#8	20	0.175
N+14.00	6b A'-A	Bottom	Uniform	#4	#8	20	0.27
N+10.35	6b A'-A	Top	Uniform	#4	#8	20	0.292
N+10.35	6b A'-A	Bottom	Uniform	#4	#8	20	0.635
N+6.10	6b A'-A	Top	Uniform	#5	#8	10	0.271
N+6.10	6b A'-A	Bottom	Uniform	#5	#8	10	0.506
N+1.85	6b A'-A	Top	Uniform	#5	#8	10	0.526
N+1.85	6b A'-A	Bottom	Uniform	#5	#8	10	0.631

A continuación, se muestran la definición de piers para el diseño de los muros de 40cm.

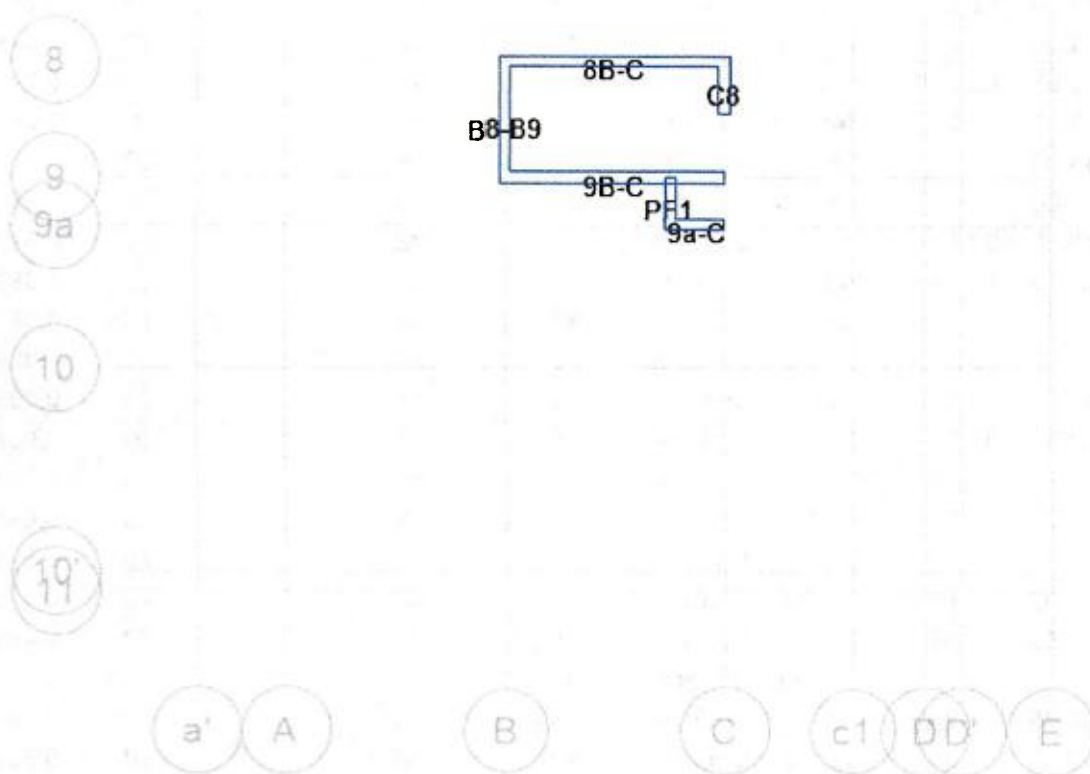


Figura 52 Definición de Pier muros 40cm

Tabla 32 Diseño de Muros 40cm Punto Fijo Edificio A

TABLE: Shear Wall Pier Design Summary - ACI 318-14							
Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+21.30	9B-C	Top	Uniform	#5	#8	20	0.196
N+21.30	9B-C	Bottom	Uniform	#5	#8	20	0.092
N+17.65	9B-C	Top	Uniform	#5	#8	20	0.144
N+17.65	9B-C	Bottom	Uniform	#5	#8	20	0.157
N+14.00	9B-C	Top	Uniform	#5	#8	20	0.149
N+14.00	9B-C	Bottom	Uniform	#5	#8	20	0.17
N+10.35	9B-C	Top	Uniform	#5	#8	20	0.228
N+10.35	9B-C	Bottom	Uniform	#5	#8	20	0.341
N+6.10	9B-C	Top	Uniform	#5	#8	20	0.293
N+6.10	9B-C	Bottom	Uniform	#5	#8	20	0.337
N+1.85	9B-C	Top	Uniform	#5	#8	20	0.331
N+1.85	9B-C	Bottom	Uniform	#5	#8	20	0.376
N+21.30	8B-C	Top	Uniform	#5	#8	20	0.756
N+21.30	8B-C	Bottom	Uniform	#5	#8	20	0.628
N+17.65	8B-C	Top	Uniform	#5	#8	20	0.595
N+17.65	8B-C	Bottom	Uniform	#5	#8	20	0.682
N+14.00	8B-C	Top	Uniform	#5	#8	20	0.483
N+14.00	8B-C	Bottom	Uniform	#5	#8	20	0.656
N+10.35	8B-C	Top	Uniform	#5	#8	10	0.328
N+10.35	8B-C	Bottom	Uniform	#5	#8	10	0.581
N+6.10	8B-C	Top	Uniform	#5	#8	10	0.385
N+6.10	8B-C	Bottom	Uniform	#5	#8	10	0.6
N+1.85	8B-C	Top	Uniform	#5	#8	10	0.435
N+1.85	8B-C	Bottom	Uniform	#5	#8	10	0.604
N+21.30	B8-B9	Top	Uniform	#5	#8	20	0.833
N+21.30	B8-B9	Bottom	Uniform	#5	#8	20	0.651
N+17.65	B8-B9	Top	Uniform	#5	#8	20	0.524
N+17.65	B8-B9	Bottom	Uniform	#5	#8	20	0.653
N+14.00	B8-B9	Top	Uniform	#5	#8	20	0.491
N+14.00	B8-B9	Bottom	Uniform	#5	#8	20	0.683
N+10.35	B8-B9	Top	Uniform	#5	#8	20	0.469
N+10.35	B8-B9	Bottom	Uniform	#5	#8	20	0.735
N+6.10	B8-B9	Top	Uniform	#5	#8	10	0.346
N+6.10	B8-B9	Bottom	Uniform	#5	#8	10	0.63
N+1.85	B8-B9	Top	Uniform	#5	#8	10	0.534

TABLE: Shear Wall Pier Design Summary - ACI 318-14

Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+1.85	B8-B9	Bottom	Uniform	#5	#8	10	0.827
N+21.30	B8-B9	Top	Uniform	#5	#8	20	0.833
N+21.30	B8-B9	Bottom	Uniform	#5	#8	20	0.651
N+17.65	B8-B9	Top	Uniform	#5	#8	20	0.524
N+17.65	B8-B9	Bottom	Uniform	#5	#8	20	0.653
N+14.00	B8-B9	Top	Uniform	#5	#8	20	0.491
N+14.00	B8-B9	Bottom	Uniform	#5	#8	20	0.683
N+10.35	B8-B9	Top	Uniform	#5	#8	20	0.469
N+10.35	B8-B9	Bottom	Uniform	#5	#8	20	0.735
N+6.10	B8-B9	Top	Uniform	#5	#8	10	0.346
N+6.10	B8-B9	Bottom	Uniform	#5	#8	10	0.63
N+1.85	B8-B9	Top	Uniform	#5	#8	10	0.534
N+1.85	B8-B9	Bottom	Uniform	#5	#8	10	0.827
N+21.30	PF1	Top	Uniform	#5	#8	20	0.152
N+21.30	PF1	Bottom	Uniform	#5	#8	20	0.057
N+17.65	PF1	Top	Uniform	#5	#8	20	0.097
N+17.65	PF1	Bottom	Uniform	#5	#8	20	0.138
N+14.00	PF1	Top	Uniform	#5	#8	20	0.142
N+14.00	PF1	Bottom	Uniform	#5	#8	20	0.176
N+10.35	PF1	Top	Uniform	#5	#8	20	0.204
N+10.35	PF1	Bottom	Uniform	#5	#8	20	0.313
N+6.10	PF1	Top	Uniform	#5	#8	20	0.317
N+6.10	PF1	Bottom	Uniform	#5	#8	20	0.339
N+1.85	PF1	Top	Uniform	#5	#8	20	0.347
N+1.85	PF1	Bottom	Uniform	#5	#8	20	0.378
N+21.30	9a-C	Top	Uniform	#5	#8	20	0.309
N+21.30	9a-C	Bottom	Uniform	#5	#8	20	0.151
N+17.65	9a-C	Top	Uniform	#5	#8	20	0.189
N+17.65	9a-C	Bottom	Uniform	#5	#8	20	0.177
N+14.00	9a-C	Top	Uniform	#5	#8	20	0.25
N+14.00	9a-C	Bottom	Uniform	#5	#8	20	0.24
N+10.35	9a-C	Top	Uniform	#5	#8	20	0.264
N+10.35	9a-C	Bottom	Uniform	#5	#8	20	0.391
N+6.10	9a-C	Top	Uniform	#5	#8	20	0.377
N+6.10	9a-C	Bottom	Uniform	#5	#8	20	0.436
N+1.85	9a-C	Top	Uniform	#5	#8	20	0.471
N+1.85	9a-C	Bottom	Uniform	#5	#8	20	0.748

Diseño Muros Edificio B

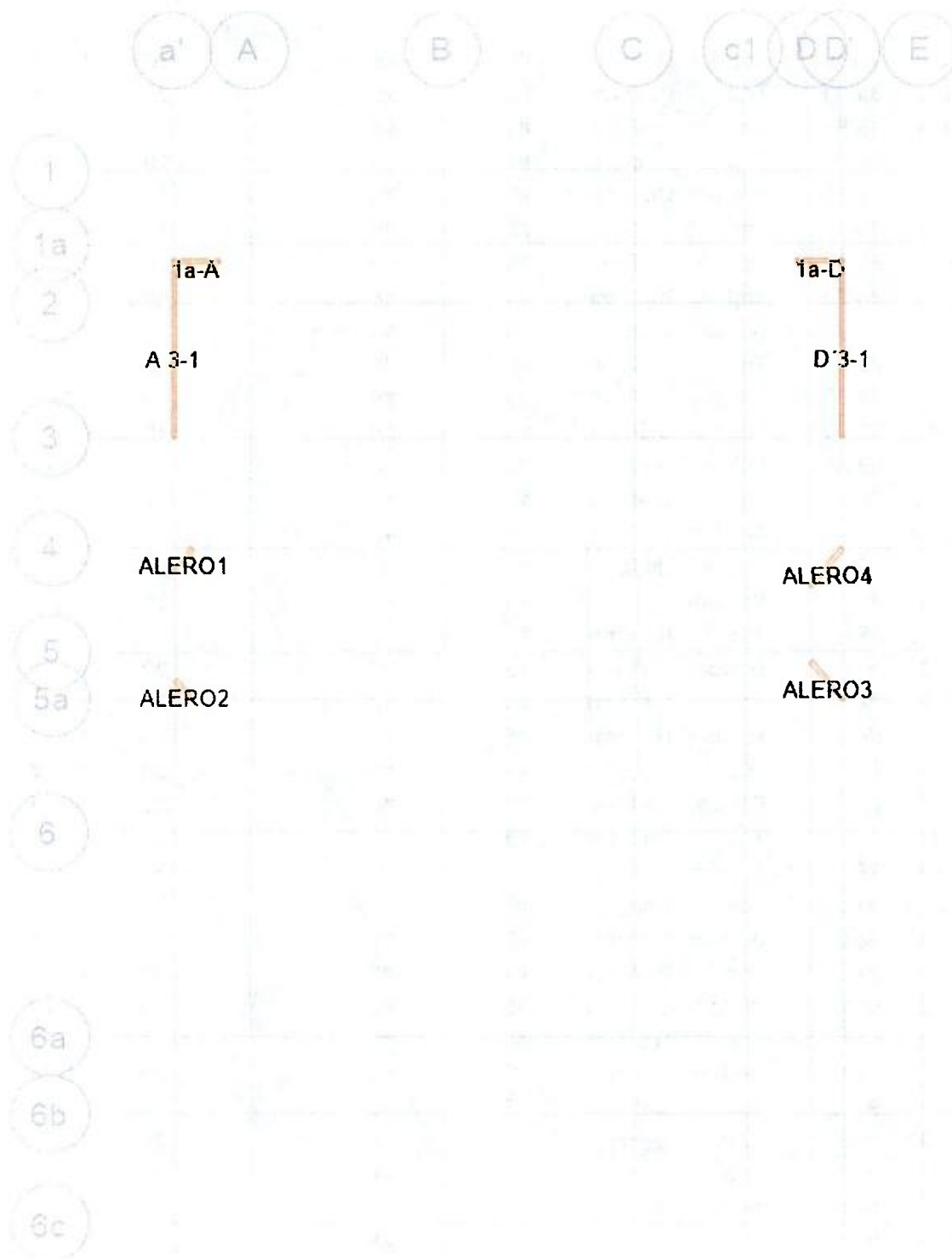


Figura 53 Definición Piers Muros 15cm Edificio B

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Tabla 33 Diseño de Muros 15cm Edificio B.

Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+19.65	D'3-1	Top	Uniform	#4	#6	20	0.492
N+19.65	D'3-1	Bottom	Uniform	#4	#6	20	0.204
N+16.00	D'3-1	Top	Uniform	#4	#6	20	0.271
N+16.00	D'3-1	Bottom	Uniform	#4	#6	20	0.229
N+12.35	D'3-1	Top	Uniform	#4	#6	20	0.211
N+12.35	D'3-1	Bottom	Uniform	#4	#6	20	0.331
N+19.65	ALERO1	Top	Uniform	#4	#6	20	0.968
N+19.65	ALERO1	Bottom	Uniform	#4	#6	20	0.755
N+16.00	ALERO1	Top	Uniform	#4	#6	20	0.727
N+16.00	ALERO1	Bottom	Uniform	#4	#6	20	0.711
N+12.35	ALERO1	Top	Uniform	#5	#6	5	0.342
N+12.35	ALERO1	Bottom	Uniform	#5	#6	5	0.439
N+19.65	ALERO2	Top	Uniform	#4	#6	20	0.673
N+19.65	ALERO2	Bottom	Uniform	#4	#6	20	0.564
N+16.00	ALERO2	Top	Uniform	#4	#6	20	0.481
N+16.00	ALERO2	Bottom	Uniform	#4	#6	20	0.434
N+12.35	ALERO2	Top	Uniform	#5	#6	5	0.49
N+12.35	ALERO2	Bottom	Uniform	#5	#6	5	0.292
N+19.65	ALERO3	Top	Uniform	#4	#6	20	0.312
N+19.65	ALERO3	Bottom	Uniform	#4	#6	20	0.218
N+16.00	ALERO3	Top	Uniform	#4	#6	20	0.307
N+16.00	ALERO3	Bottom	Uniform	#4	#6	20	0.275
N+12.35	ALERO3	Top	Uniform	#5	#6	5	0.296
N+12.35	ALERO3	Bottom	Uniform	#5	#6	5	0.354
N+19.65	ALERO4	Top	Uniform	#4	#6	20	0.689
N+19.65	ALERO4	Bottom	Uniform	#4	#6	20	0.533
N+16.00	ALERO4	Top	Uniform	#4	#6	20	0.593
N+16.00	ALERO4	Bottom	Uniform	#4	#6	20	0.582
N+12.35	ALERO4	Top	Uniform	#5	#6	5	0.219
N+12.35	ALERO4	Bottom	Uniform	#5	#6	5	0.3
N+19.65	1a-D	Top	Uniform	#4	#6	20	0.437
N+19.65	1a-D	Bottom	Uniform	#4	#6	20	0.284
N+16.00	1a-D	Top	Uniform	#4	#6	20	0.312
N+16.00	1a-D	Bottom	Uniform	#4	#6	20	0.238
N+12.35	1a-D	Top	Uniform	#4	#6	20	0.205
N+12.35	1a-D	Bottom	Uniform	#4	#6	20	0.723
N+19.65	A 3-1	Top	Uniform	#4	#6	20	0.265
N+19.65	A 3-1	Bottom	Uniform	#4	#6	20	0.175
N+16.00	A 3-1	Top	Uniform	#4	#6	20	0.242
N+16.00	A 3-1	Bottom	Uniform	#4	#6	20	0.223
N+12.35	A 3-1	Top	Uniform	#4	#6	20	0.313
N+12.35	A 3-1	Bottom	Uniform	#4	#6	20	0.637
N+19.65	1a-A	Top	Uniform	#4	#6	20	0.351
N+19.65	1a-A	Bottom	Uniform	#4	#6	20	0.152
N+16.00	1a-A	Top	Uniform	#4	#6	20	0.191
N+16.00	1a-A	Bottom	Uniform	#4	#6	20	0.113
N+12.35	1a-A	Top	Uniform	#4	#6	20	0.255
N+12.35	1a-A	Bottom	Uniform	#4	#6	20	0.773

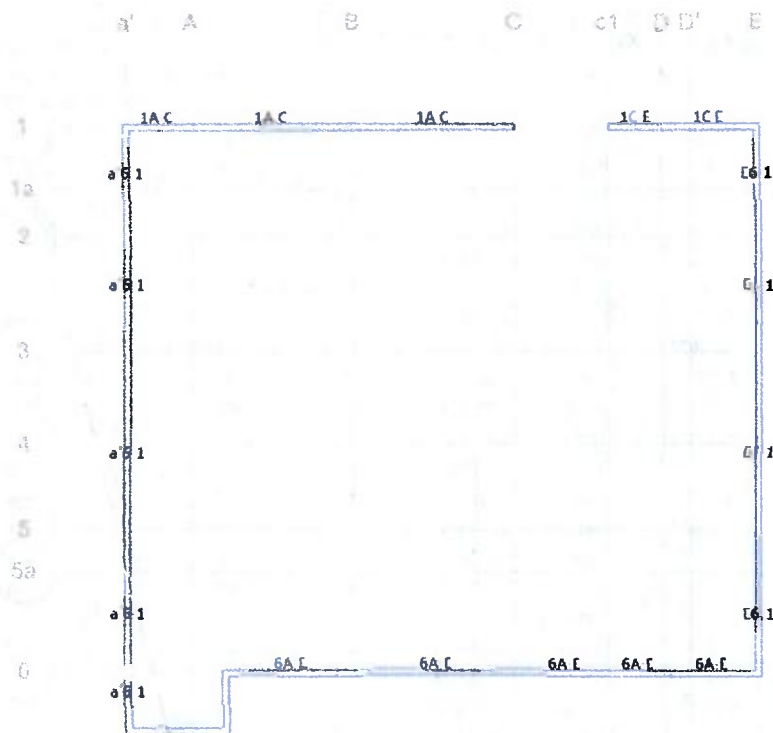


Figura 54 Definición Piers Muro sótano 30cm

Tabla 34 Diseño de Muros 30cm Edificio B.

Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+0.00	1A-C	Top	Uniform	#5	#8	20	0.138
N+0.00	1A-C	Bottom	Uniform	#5	#8	20	0.061
N-1.75	1A-C	Top	Uniform	#5	#8	20	0.073
N-1.75	1A-C	Bottom	Uniform	#5	#8	20	0.103
N+0.00	1C-E	Top	Uniform	#5	#8	20	0.084
N+0.00	1C-E	Bottom	Uniform	#5	#8	20	0.056
N-1.75	1C-E	Top	Uniform	#5	#8	20	0.038
N-1.75	1C-E	Bottom	Uniform	#5	#8	20	0.086
N+0.00	a'6-1	Top	Uniform	#5	#8	20	0.317
N+0.00	a'6-1	Bottom	Uniform	#5	#8	20	0.05
N-1.75	a'6-1	Top	Uniform	#5	#8	20	0.027
N-1.75	a'6-1	Bottom	Uniform	#5	#8	20	0.138
N+0.00	E6-1	Top	Uniform	#5	#8	20	0.065
N+0.00	E6-1	Bottom	Uniform	#5	#8	20	0.033
N-1.75	E6-1	Top	Uniform	#5	#8	20	0.035
N-1.75	E6-1	Bottom	Uniform	#5	#8	20	0.059
N+0.00	6A-E	Top	Uniform	#5	#8	20	0.145
N+0.00	6A-E	Bottom	Uniform	#5	#8	20	0.13
N-1.75	6A-E	Top	Uniform	#5	#8	20	0.135
N-1.75	6A-E	Bottom	Uniform	#5	#8	20	0.153

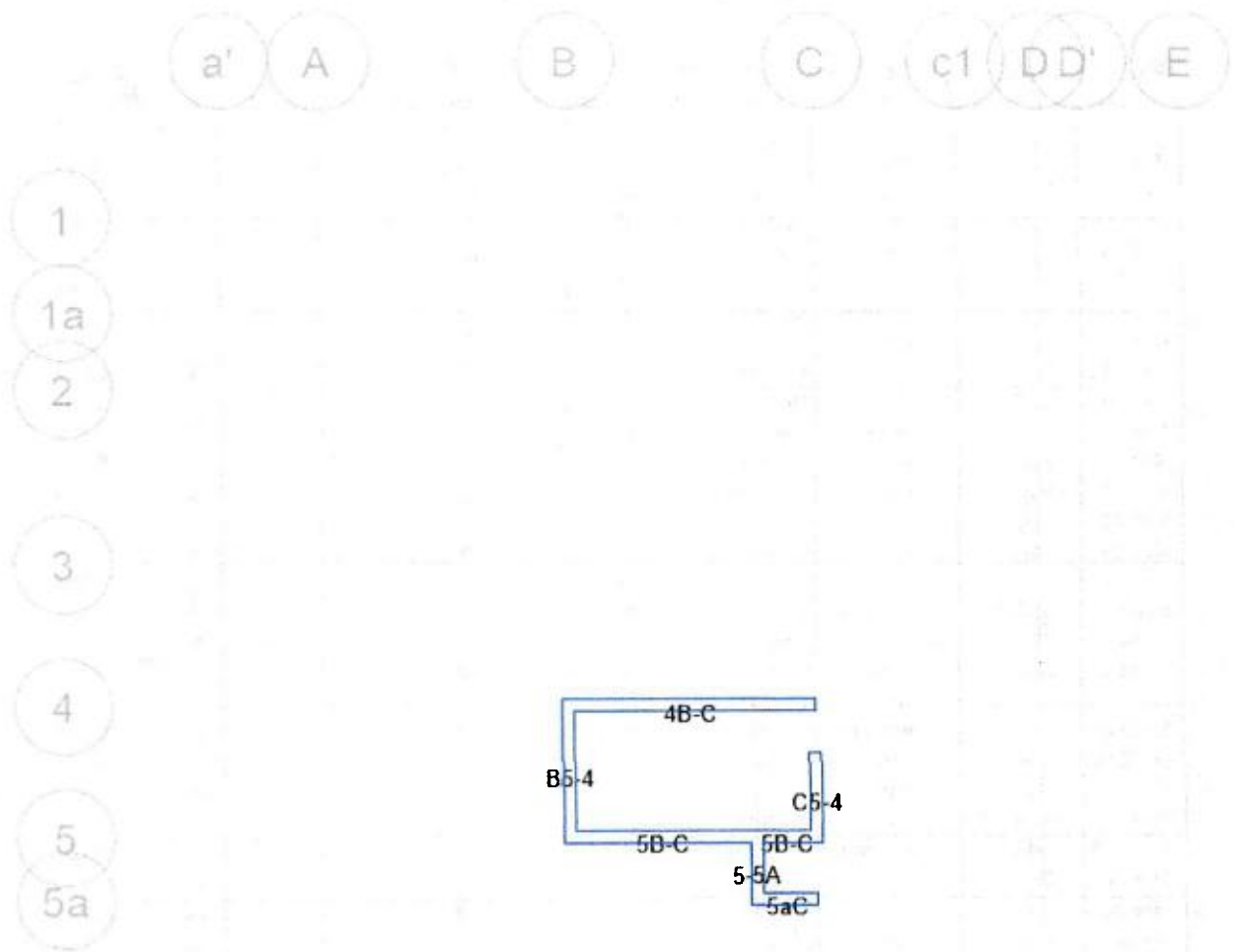


Figura 55 Definición Piers Muros 40cm Edificio B.

Tabla 35 Diseño de Muros 40cm Edificio B.

TABLE: Shear Wall Pier Design Summary - ACI 318-14							
Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+24.40	5aC	Top	Uniform	#5	#8	20	0.183
N+24.40	5aC	Bottom	Uniform	#5	#8	20	0.524
N+19.65	5aC	Top	Uniform	#5	#8	20	0.333
N+19.65	5aC	Bottom	Uniform	#5	#8	20	0.364
N+16.00	5aC	Top	Uniform	#5	#8	20	0.364
N+16.00	5aC	Bottom	Uniform	#5	#8	20	0.385
N+12.35	5aC	Top	Uniform	#5	#8	20	0.364
N+12.35	5aC	Bottom	Uniform	#5	#8	20	0.531
N+8.70	5aC	Top	Uniform	#5	#8	20	0.393
N+8.70	5aC	Bottom	Uniform	#5	#8	20	0.899
N+3.60	5aC	Top	Uniform	#5	#8	10	0.415
N+3.60	5aC	Bottom	Uniform	#5	#8	10	0.624
N+0.00	5aC	Top	Uniform	#5	#8	10	0.446
N+0.00	5aC	Bottom	Uniform	#5	#8	10	0.448
N-1.75	5aC	Top	Uniform	#5	#8	10	0.554
N-1.75	5aC	Bottom	Uniform	#5	#8	10	0.57
N+24.40	5B-C	Top	Uniform	#5	#8	20	0.03
N+24.40	5B-C	Bottom	Uniform	#5	#8	20	0.091
N+19.65	5B-C	Top	Uniform	#5	#8	20	0.235
N+19.65	5B-C	Bottom	Uniform	#5	#8	20	0.183
N+16.00	5B-C	Top	Uniform	#5	#8	20	0.134
N+16.00	5B-C	Bottom	Uniform	#5	#8	20	0.168
N+12.35	5B-C	Top	Uniform	#5	#8	20	0.176
N+12.35	5B-C	Bottom	Uniform	#5	#8	20	0.202
N+8.70	5B-C	Top	Uniform	#5	#8	20	0.238
N+8.70	5B-C	Bottom	Uniform	#5	#8	20	0.463
N+3.60	5B-C	Top	Uniform	#5	#8	20	0.28
N+3.60	5B-C	Bottom	Uniform	#5	#8	20	0.538
N+0.00	5B-C	Top	Uniform	#5	#8	20	0.436
N+0.00	5B-C	Bottom	Uniform	#5	#8	20	0.485
N-1.75	5B-C	Top	Uniform	#5	#8	20	0.488
N-1.75	5B-C	Bottom	Uniform	#5	#8	20	0.558
N+24.40	4B-C	Top	Uniform	#5	#8	20	0.108
N+24.40	4B-C	Bottom	Uniform	#5	#8	20	0.51
N+19.65	4B-C	Top	Uniform	#5	#8	20	0.398
N+19.65	4B-C	Bottom	Uniform	#5	#8	20	0.388
N+16.00	4B-C	Top	Uniform	#5	#8	20	0.315
N+16.00	4B-C	Bottom	Uniform	#5	#8	20	0.331
N+12.35	4B-C	Top	Uniform	#5	#8	20	0.311
N+12.35	4B-C	Bottom	Uniform	#5	#8	20	0.344
N+8.70	4B-C	Top	Uniform	#5	#8	20	0.382
N+8.70	4B-C	Bottom	Uniform	#5	#8	20	0.676
N+3.60	4B-C	Top	Uniform	#5	#8	20	0.516
N+3.60	4B-C	Bottom	Uniform	#5	#8	20	0.782
N+0.00	4B-C	Top	Uniform	#5	#8	20	0.478
N+0.00	4B-C	Bottom	Uniform	#5	#8	20	0.584
N-1.75	4B-C	Top	Uniform	#5	#8	20	0.608
N-1.75	4B-C	Bottom	Uniform	#5	#8	20	0.726
N+24.40	5-5A	Top	Uniform	#5	#8	20	0.105

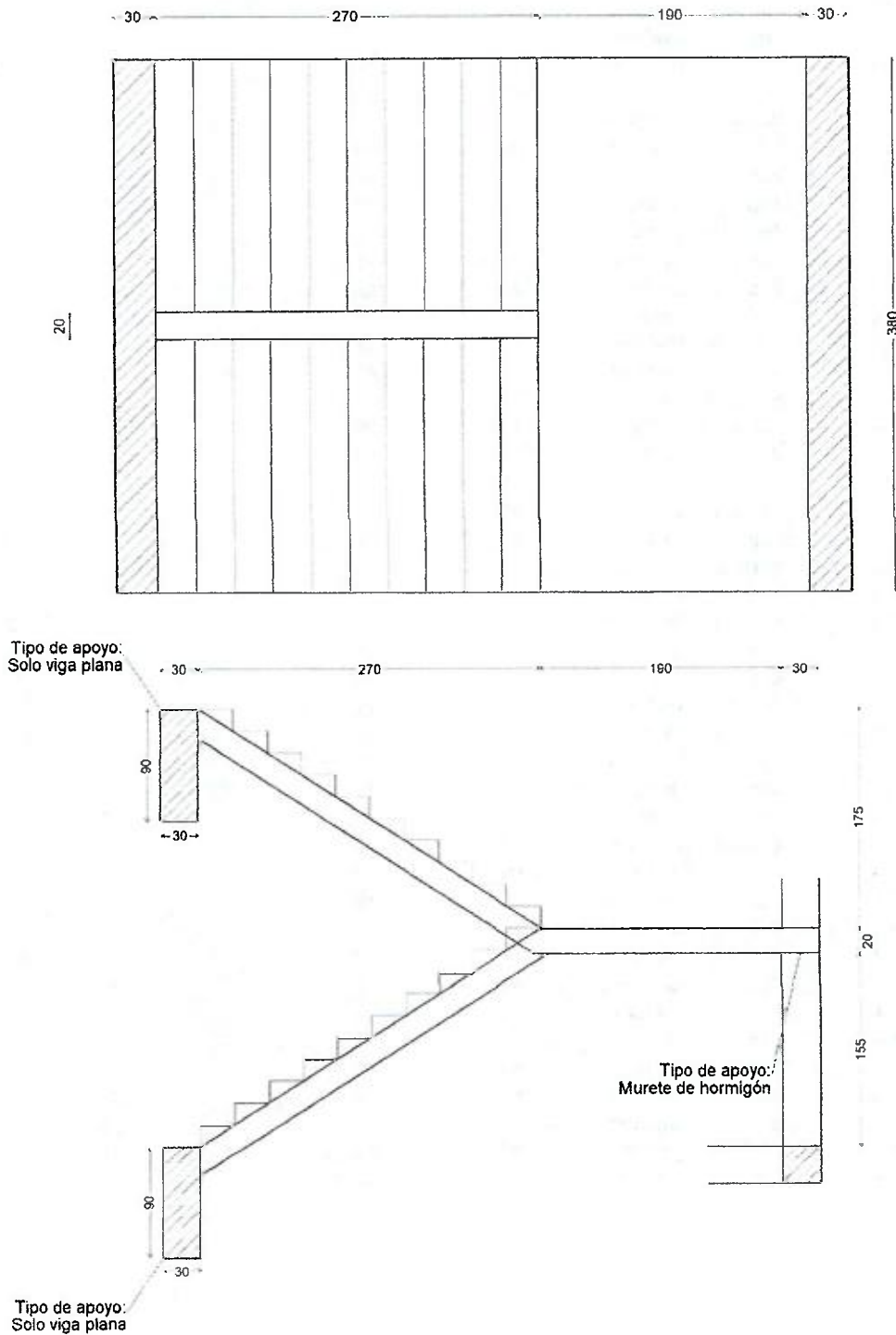
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1A - Shear Wall - Design Summary - ACI 318-14							
Story	Pier Label	Station	Design Type	Edge Rebar	End Rebar	Rebar Spacing cm	D/C Ratio
N+24.40	5-5A	Bottom	Uniform	#5	#8	20	0.043
N+19.65	5-5A	Top	Uniform	#5	#8	20	0.167
N+19.65	5-5A	Bottom	Uniform	#5	#8	20	0.116
N+16.00	5-5A	Top	Uniform	#5	#8	20	0.165
N+16.00	5-5A	Bottom	Uniform	#5	#8	20	0.159
N+12.35	5-5A	Top	Uniform	#5	#8	20	0.2
N+12.35	5-5A	Bottom	Uniform	#5	#8	20	0.199
N+8.70	5-5A	Top	Uniform	#5	#8	20	0.417
N+8.70	5-5A	Bottom	Uniform	#5	#8	20	1.068
N+3.60	5-5A	Top	Uniform	#5	#8	20	0.331
N+3.60	5-5A	Bottom	Uniform	#5	#8	20	0.645
N+0.00	5-5A	Top	Uniform	#5	#8	20	0.312
N+0.00	5-5A	Bottom	Uniform	#5	#8	20	0.61
N-1.75	5-5A	Top	Uniform	#5	#8	20	0.334
N-1.75	5-5A	Bottom	Uniform	#5	#8	20	0.691
N+24.40	B5-4	Top	Uniform	#5	#8	20	0.032
N+24.40	B5-4	Bottom	Uniform	#5	#8	20	0.59
N+19.65	B5-4	Top	Uniform	#5	#8	20	0.537
N+19.65	B5-4	Bottom	Uniform	#5	#8	20	0.558
N+16.00	B5-4	Top	Uniform	#5	#8	20	0.506
N+16.00	B5-4	Bottom	Uniform	#5	#8	20	0.558
N+12.35	B5-4	Top	Uniform	#5	#8	20	0.433
N+12.35	B5-4	Bottom	Uniform	#5	#8	20	0.374
N+8.70	B5-4	Top	Uniform	#5	#8	20	0.477
N+8.70	B5-4	Bottom	Uniform	#5	#8	20	0.885
N+3.60	B5-4	Top	Uniform	#5	#8	10	0.441
N+3.60	B5-4	Bottom	Uniform	#5	#8	10	0.65
N+0.00	B5-4	Top	Uniform	#5	#8	10	0.531
N+0.00	B5-4	Bottom	Uniform	#5	#8	10	0.618
N-1.75	B5-4	Top	Uniform	#5	#8	10	0.613
N-1.75	B5-4	Bottom	Uniform	#5	#8	10	0.711
N+24.40	C5-4	Top	Uniform	#5	#8	20	0.163
N+24.40	C5-4	Bottom	Uniform	#5	#8	20	0.533
N+19.65	C5-4	Top	Uniform	#5	#8	20	0.657
N+19.65	C5-4	Bottom	Uniform	#5	#8	20	0.556
N+16.00	C5-4	Top	Uniform	#5	#8	20	0.645
N+16.00	C5-4	Bottom	Uniform	#5	#8	20	0.551
N+12.35	C5-4	Top	Uniform	#5	#8	20	0.629
N+12.35	C5-4	Bottom	Uniform	#5	#8	20	0.386
N+8.70	C5-4	Top	Uniform	#5	#8	20	0.7
N+8.70	C5-4	Bottom	Uniform	#5	#8	20	1.029
N+3.60	C5-4	Top	Uniform	#5	#8	10	0.398
N+3.60	C5-4	Bottom	Uniform	#5	#8	10	0.57
N+0.00	C5-4	Top	Uniform	#5	#8	10	0.462
N+0.00	C5-4	Bottom	Uniform	#5	#8	10	0.539
N-1.75	C5-4	Top	Uniform	#5	#8	10	0.554
N-1.75	C5-4	Bottom	Uniform	#5	#8	10	0.655

6.5 DISEÑO DE ESCALERAS

Escalera Principal:

Planta (escala 1:50)



Canto de la viga del apoyo superior: 0.90 m
Canto de la viga del apoyo inferior: 0.90 m

2. Materiales

Hormigón = $f'c=280$
Acero = Grado 60 (Latinoamérica)
Acciones: NSR-10

3. Cargas

Peso propio losa (espesor x 2.5 t/m³) = 0.500 t/m²
Peldañoado = 0.400 t/m²
Barandillas = 0.300 t/m
Sobrecarga de uso = 0.500 t/m²

4. Resultado del cálculo y armaduras

4.1. Armadura longitudinal

Momento de cálculo inferior = 10.02 t·m
Momento de cálculo superior (negativos) = 6.26 t·m

- Tramo superior

Armadura inferior Ø5/8" c/ 0.150 m.
Armadura superior Ø5/8" c/ 0.150 m.

- Tramo inferior

Armadura inferior Ø5/8" c/ 0.150 m.
Armadura superior Ø5/8" c/ 0.150 m.
Arranque inferior en apoyo Ø5/8" c/ 0.150 m.

- Descansillo

Armadura inferior en descansillo Ø5/8" c/ 0.150 m.
Armadura superior en descansillo Ø5/8" c/ 0.150 m.

4.2. Armadura transversal

+ en tramos inclinados: barras rectas con patillas en los extremos

- Tramo superior

Armadura superior Ø1/2" c/ 0.200 m.
Armadura inferior Ø1/2" c/ 0.200 m.

- Tramo inferior

Armadura superior Ø1/2" c/ 0.200 m.
Armadura inferior Ø1/2" c/ 0.200 m.

+ en descansillos: barras rectas con patillas en los extremos

Momento de cálculo de armadura transversal superior = 8.11 t·m

Armadura superior Ø5/8" c/ 0.150 m.
Armadura inferior Ø1/2" c/ 0.200 m.

4.3. Armadura del apoyo intermedio

Armadura del murete de hormigón $\varnothing 8$ c/ 0.200 m.

Armadura transversal del murete de hormigón $\varnothing 8$ c/ 0.200 m.

Nota: La medición no incluye las barras del apoyo intermedio.

5. Opciones de cálculo

5.1. Posición de las armaduras

a) La armadura transversal envuelve a la longitudinal.

b) Recubrimiento geométrico = distancia de los paramentos exteriores a la armadura más próxima = 0.025 m.

c) La armadura transversal en los tramos inclinados está formada por: barras rectas con patillas en los extremos

5.2. Cuantías mínimas en losas

a) Cuantías geométricas

Cara inferior = 0.0009

Cara superior = 0.0000

Cara tracción = 0.0000

Total = 0.0018

b) Cuantía mecánica mínima 0.04

c) Se aplica la reducción de cuantía mecánica mínima

d) Porcentaje de armadura en una dirección respecto a la necesaria en la otra

Si se necesita en ésta = 20 %

Si no se necesita en ésta = 20 %

5.3. Recubrimiento en losas

Recubrimiento superior (cm) = 3.5

Recubrimiento inferior (cm) = 2.5

Recubrimiento lateral (cm) = 2.5

6. PELDAÑEADO

Huella = 0.270 m

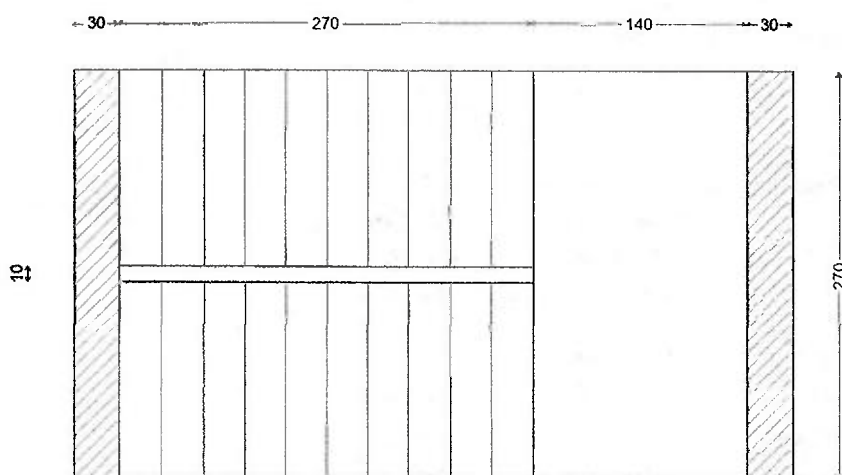
ContraHuella = 0.175 m

Número de peldaños = 10

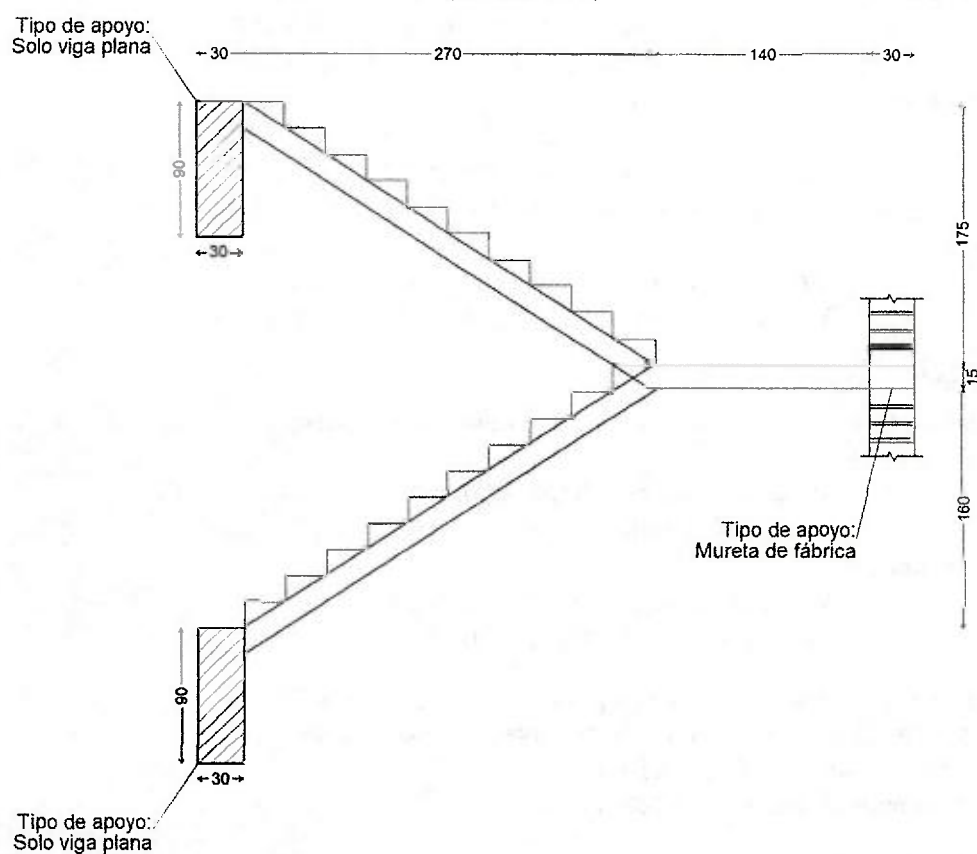
Escalera de Servicio:

1. Geometría

Planta (escala 1:50)



Sección acotada (escala 1:50)



Canto de la viga del apoyo superior: 0.90 m
Canto de la viga del apoyo inferior: 0.90 m

2. Materiales

Hormigón = $f'c=280$

Acero = Grado 60 (Latinoamérica)

Acciones: NSR-10

3. Cargas

Peso propio losa (espesor x 2.5 t/m³) = 0.375 t/m²

Peldañoado = 0.400 t/m²

Barandillas = 0.300 t/m

Sobrecarga de uso = 0.500 t/m²

4. Resultado del cálculo y armaduras

4.1. Armadura longitudinal

Momento de cálculo inferior = 5.66 t·m

Momento de cálculo superior (negativos) = 3.54 t·m

- Tramo superior

Armadura inferior Ø5/8" c/ 0.150 m.

Armadura superior Ø5/8" c/ 0.150 m.

- Tramo inferior

Armadura inferior Ø5/8" c/ 0.150 m.

Armadura superior Ø5/8" c/ 0.150 m.

Arranque inferior en apoyo Ø5/8" c/ 0.150 m.

- Descansillo

Armadura inferior en descansillo Ø5/8" c/ 0.150 m.

Armadura superior en descansillo Ø5/8" c/ 0.150 m.

4.2. Armadura transversal

+ en tramos inclinados: barras rectas con patillas en los extremos

- Tramo superior

Armadura superior Ø1/2" c/ 0.200 m.

Armadura inferior Ø1/2" c/ 0.200 m.

- Tramo inferior

Armadura superior Ø1/2" c/ 0.200 m.

Armadura inferior Ø1/2" c/ 0.200 m.

+ en descansillos: barras rectas con patillas en los extremos

Momento de cálculo de armadura transversal superior = 3.36 t·m

Armadura superior Ø5/8" c/ 0.150 m.

Armadura inferior Ø1/2" c/ 0.200 m.

5. Opciones de cálculo

5.1. Posición de las armaduras

- a) La armadura transversal envuelve a la longitudinal.
- b) Recubrimiento geométrico = distancia de los paramentos exteriores a la armadura más próxima = 0.025 m.
- c) La armadura transversal en los tramos inclinados está formada por: barras rectas con patillas en los extremos

5.2. Cuantías mínimas en losas

- a) Cuantías geométricas

Cara inferior = 0.0009

Cara superior = 0.0000

Cara tracción = 0.0000

Total = 0.0018

- b) Cuantía mecánica mínima 0.04

- c) Se aplica la reducción de cuantía mecánica mínima

- d) Porcentaje de armadura en una dirección respecto a la necesaria en la otra

Si se necesita en ésta = 20 %

Si no se necesita en ésta = 20 %

5.3. Recubrimiento en losas

Recubrimiento superior (cm) = 3.5

Recubrimiento inferior (cm) = 2.5

Recubrimiento lateral (cm) = 2.5

6. PELDAÑEADO

Huella = 0.270 m

ContraHuella = 0.175 m

Número de peldaños = 10

6.6 DISEÑO DE ELEMENTOS DE ACERO

Diseño de elementos de Acero a Flexión (F.2.6.1)

En cada punto a lo largo de la longitud de la viga, se debe satisfacer la siguiente ecuación:

$$M_u \leq \phi_b M_n \quad \phi_b = 0.90$$

Donde M_u , es el momento bajo cargas mayoradas (del análisis estructural) y M_n es la resistencia nominal de flexión de la viga.

M_u : Resistencia a flexión de vigas, calculada con base en PLP, PLA, PLT o momento plástico de la sección M_p .

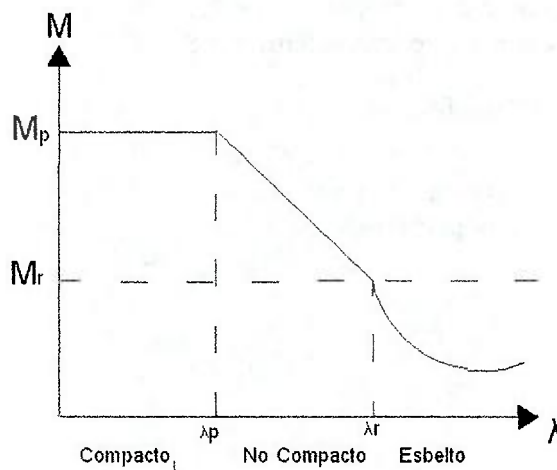
$$M_p = ZF_y \leq 1.5 M_y$$

En general, la resistencia M_n basada en PLP y PLA depende de dos variables: Relación ancho-espesor de la aleta o el alma.

El NSR-10 usa el símbolo " λ " para la relación ancho-espesor. Para una sección de ala ancha, los valores para λ se definen como $b_f/(2t_f)$ para PLP y h_c/t_w para PLA. Para determinar M_n con base en PLP y PLA, el valor λ se compara con λ_p y λ_r .

$$\lambda = b_f/(2t_f) \text{ para PLP}$$

$$\lambda = h_c/t_w \text{ para PLA}$$



Procedimiento Diseño elástico:

1. Hallar los diagramas de M_u y V_u
2. Seleccionar el perfil más liviano que cumpla $\phi M_p \geq M_u$
3. Verificar la sección compacta PLP y PLA
4. Verificar espaciamiento L_b de soportes laterales PLT, para que $M_n = M_p$

5. Verificar $\phi V_n \geq V_u$

6. Verificar las deflexiones. $\delta_{\text{máx}} < \frac{L}{360}$ por carga viva de servicio. L: longitud libre de la viga.

Diseño Acero elementos en Flexo Compresión.

Ecuación de Interacción: (F.2.8.1.1 Y F.2.8.1.2)

Hallada ajustando la curva a los resultados de las soluciones exactas. La ecuación para elementos simétricos bajo flexión biaxial.

$$\frac{P_u}{\phi P_n} \geq 0.2 \quad \frac{P_u}{\phi P_n} + \frac{8}{9} \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0$$

$$\frac{P_u}{\phi P_n} < 0.2 \quad \frac{P_u}{2\phi P_n} + \left[\frac{M_{ux}}{\phi_b M_{nx}} + \frac{M_{uy}}{\phi_b M_{ny}} \right] \leq 1.0$$

C_b Debería basarse en la forma del momento elástico de segundo orden entre soportes laterales. Existen 2 formas:

Si la forma del diagrama de momento de segundo orden es conocida

$$C_b = \frac{12.5 M_{\text{max}}}{2.5 M_{\text{max}} + 3M_A + 4M_B + 3M_C}$$

$M_{\text{max}} + M_A + M_B + M_C = \text{Momento de segundo orden}$

Si la forma del diagrama de momentos de segundo orden es desconocida, usar $C_b = 1.0$ que es conservativo.

Una vez introducido el modelo computacional con todos los requerimientos antes mencionados, se realizan las iteraciones necesarias hasta que el diseño esté terminado.

7. DISEÑO ELEMENTOS NO ESTRUCTURALES

En los capítulos A.3.3 y el A.3.6, de la NSR-10 se especifica al respecto:

A.3.6.1 — GENERALIDADES — Todos los elementos estructurales deben diseñarse para los efectos de los movimientos sísmicos de diseño que actúen sobre ellos, adicionalmente a todas las cargas que los puedan afectar, tal como lo prescribe el Título B de este Reglamento.

A.3.6.1.1 — Elementos del sistema de resistencia sísmica — Solamente los elementos que pertenezcan al sistema estructural de resistencia sísmica pueden contribuir a la resistencia sísmica de la edificación y deben diseñarse de acuerdo con los requisitos propios de su material estructural y para el grado de capacidad de disipación de energía requerido, además de los requisitos adicionales dados en la presente sección.

A.3.6.1.2 — Elementos estructurales que no hacen parte del sistema de resistencia sísmica — Los elementos estructurales que no formen parte del sistema estructural de resistencia sísmica, deben investigarse con el fin de determinar si pueden mantener su capacidad de resistir cargas verticales cuando se ven sometidos a los desplazamientos horizontales y a las derivas, causados por los movimientos sísmicos de diseño, pero sólo hay necesidad de que cumplan los requisitos del grado de capacidad de disipación de energía mínimo para su material estructural. Sus anclajes y amarres al sistema de resistencia sísmica deben cumplir los requisitos dados en la presente sección y en el Capítulo A.8.

A.3.3.9 — USO DEL COEFICIENTE DE SOBRERRESISTENCIA Ω_0 — Cuando los requisitos para el material estructural y el grado de disipación de energía requieren que los elementos frágiles o las conexiones entre elementos se diseñen para fuerzas sísmicas, E, amplificadas por el coeficiente de sobrerresistencia, Ω_0 , éste debe emplearse de la siguiente manera para obtener las fuerzas de diseño que incluyen los efectos sísmicos:

$$E = \frac{\Omega_0 F_s}{R} \pm 0.5 A_s \cdot F_a \cdot D \quad (\text{A.3.3-2})$$

Donde F_s corresponde a las fuerzas sísmicas obtenidas del análisis, R es el coeficiente de capacidad de disipación de energía correspondiente al sistema estructural de resistencia sísmica $R = \Phi_a \cdot \Phi_p \cdot \Phi_r \cdot R_o$, y D corresponde a la carga muerta que actúa sobre el elemento tal como se define en el Título B del Reglamento y el signo de la parte derecha de la ecuación es el que conduce al mayor valor de E , dependiendo del signo de F_s .

Definición de materiales, elementos y cargas

Cargas

La carga muerta a tener en cuenta será el peso propio del elemento tal como se especifica en el capítulo B, no se incluye viva ni viento, por ser elementos no estructurales, y la fuerza sísmica se determina de acuerdo al A.3.3.9.

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Refuerzo:

El refuerzo para el diseño a momento flector como a cortante vertical debe tener un esfuerzo de fluencia igual:

Para barras $> 1/4"$ $f_y = 420 \text{ MPa} = 4200 \text{ kgf/cm}^2$ o $f_y = 60.000 \text{ psi}$

Mampostería No Estructural:

FICHA TECNICA

BLOQUE SEMIESTRUCTURAL 12 CM	
	REF.
	BSE-12
DESCRIPCION GENERAL: bloque de concreto vibrocompactado, optima resistencia a la compresión para la construcción de mampostería arquitectónica, edificios, vivienda, de uso interior o exterior.	

ESPECIFICACIONES					
DIMENSIONES		Ancho	Alto	Largo	Pared
		12 cm	19 cm	39 cm	2.2 cm
COLOR		Gris			
TEXTURA		Lisa - Rustica			
PESO SECO		9.35-9.65 kg			
RENDIMIENTO		12.5 un/m ²			
MODULO DE ROTURA-Promedio		6 Mpa minimo			
MODULO DE ROTURA-Unidad		5 Mpa minimo			
ABSORCIÓN DE AGUA-Promedio (Aa%)		12% máximo			
TOLERANCIAS	LONGITUD	±2 mm			
	ALTO	1% máximo			
	ANCHO	1% máximo			
USO Y APLICACIÓN		Mampostería no estructural			
NORMATIVIDAD APLICADA		NTC 4026 - NTC 4076 - NTC 4024			

- Sistema: Mampostería reforzada
- Unidad de mampostería Bloque concreto a la vista.
- Relación área neta / área bruta de las unidades de mampostería: 1,0
- Ancho equivalente 5,0 cm
- Altura de la unidad de mampostería 6.5 cm
- Resistencia unidad de mampostería f_{cu} : 160 Kg/cm²
- Factor de corrección por absorción K_p : 0.8
- Mortero de pega Tipo M
- Resistencia mortero de pega f_{cp} : 180 Kg/cm²
- R_m [NSR-10 Ecuación D.3-1] 120.0 Kg/cm²
- Resistencia mortero de inyección f_{cr} : 210 Kg/cm²
- f'_m cuando hay celdas con mortero de inyección 100.0 Kg/cm² = 10 MPa
- Modulo de elasticidad de la mampostería E_m = 75000 Kg/cm² = 7500 MPa
- Relación de Poisson ν = 0.25

La fuerza sísmica se ve afectada por los siguientes factores.

$$E = \frac{\Omega_o F_s}{R_o} \pm 0.5 A_a \cdot F_a \cdot D \quad (A.3.3-2)$$

De acuerdo al A.3.3.9, se debe usar un coeficiente de sobrerresistencia R_o , según la tabla A.3.1 Sistema estructural de muros de carga, para muros de mampostería confinada $R_o = 2.0$ y $\Omega_o = 2.5$, para muros de mampostería parcialmente reforzada de bloque de perforación vertical, $R_o = 2.0$ y $\Omega_o = 2.5$, para sistema combinado tabla A.3.2 $R_o = 5.0$ y $\Omega_o = 2.0$, para sistema pórtico resistente a momento tabla A.3.2 $R_o = 7.0$ y $\Omega_o = 2.5$ Para el cálculo del espectro afectado por el coeficiente de sobre resistencia, usado en el diseño de elementos no estructurales queda:

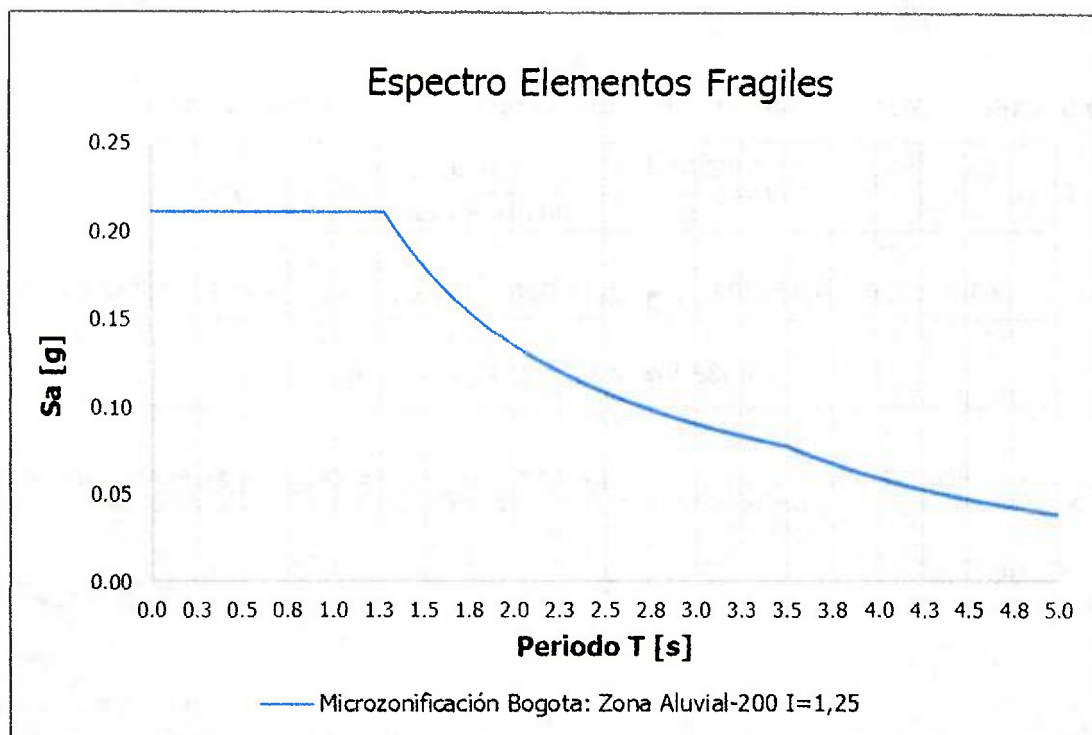


Figura 56. Espectro de respuesta de elementos frágiles.

Para el diseño de los elementos no estructurales la carga por metro de un muro debe ser

$$F_{hs} = 0.23 \times 20 \text{ kN/m}^3 \times 2.6 \text{ m} \times 1 \text{ m} \times 0.12 \text{ m} = 1.44 \text{ kN/m}$$

$$V_s = 1.44 \text{ kN/m} / 2 = 0.7176 \text{ kN/m}$$

$$M_s = 1.44 \text{ kN/m} \times 2.6 \text{ m} / 4 = 0.936 \text{ kN-m /m}$$

D.5.6 — RESISTENCIA A FLEXIÓN SIN CARGA AXIAL

D.5.6.1 — **GENERAL** — Cuando la sección del muro esta sometida a momento flector sin la presencia de carga axial, se debe cumplir la siguiente condición:

$$M_u \leq \phi M_n \quad (D.5.6-1)$$

D.5.6.2 — **SECCIONES SOLO CON REFUERZO A TRACCIÓN** — Cuando la sección del muro esta simplemente reforzada, y su cuantía es menor del 75% de la cuantía para condiciones balanceadas, la resistencia nominal a flexión M_n , se puede obtener por medio de la ecuación (D.5.6-2).

$$M_n = A_s f_y \left(d - \frac{a}{2} \right) \quad (D.5.6-2)$$

y

$$a = \frac{A_s f_y}{0.80 f'_m b} \quad (D.5.6-3)$$

Se utilizará un muro parcialmente reforzado con dovelas #3 cada 1.2 metro.

$$a = \frac{0.000071m^2 * 420\,000kPa}{0.8 * 10\,000kPa * 1.2m} = 0.00311m$$

$$\phi M_n = 0.8 * 0.000071m^2 * 420\,000kPa \left(0.06m - \frac{0.00311m}{2} \right) = 1.39kN - m/m$$

0.936 kN-m /m < 1.39 kN-m/m: CUMPLE

D.5.7.4 — **RESISTENCIA A CORTANTE EN LA DIRECCIÓN PERPENDICULAR AL PLANO DEL MURO** — Se debe cumplir la siguiente condición con respecto a la fuerza cortante que actúa en la dirección perpendicular al plano del muro:

$$V_u \leq \phi V_n \quad (D.5.7-6)$$

donde:

$$V_n = \frac{1}{6} A_{mv} \sqrt{f'_m} \quad (D.5.7-7)$$

donde A_{mv} está definido en D.5.4.5.1 y el valor del coeficiente de reducción de resistencia, ϕ , está dado en D.5.1.5.1.

$$\phi V_n = 0.6 * \frac{1}{6} * 0.08m * \sqrt{10MPa} * \frac{1000kPa}{MPa} * 1m = 25.3kN - m$$

0.7176 kN/m < 25.3kN-m: CUMPLE

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8. REQUISITOS DE PROTECCIÓN CONTRA FUEGO

En el capítulo J del NSR-10, se establecen los requisitos de resistencia y protección de edificaciones contra incendios:

J.1.1.1- Toda edificación deberá cumplir con los mismos requisitos de protección contra incendios establecidos en el presente capítulo, correspondientes al uso de la edificación y a su grupo de ocupación, de acuerdo con la clasificación dada en J.1.1.2. En consecuencia, el propósito del Título J es el de establecer dichos requisitos con base en las siguientes premisas:

- Reducir en todo lo posible el riesgo contra incendios en edificaciones.
- Evitar la propagación del fuego tanto dentro de las edificaciones como hacia estructuras aledañas.
- Facilitar las tereas de evacuación de los ocupantes de las edificaciones en caso de incendio.
- Facilitar el proceso de extinción de incendio en las edificaciones.
- Minimizar el riesgo de colapso de la estructura durante las labores de evacuación y extinción.

8.1 GRUPO DE OCUPACIÓN DE LA EDIFICACIÓN

La clasificación de la estructura por grupo de ocupación se realiza de acuerdo a la tabla J.1.1-1 que se presenta a continuación:

Grupos y Subgrupos de ocupación	Clasificación	Sección del Reglamento
A	ALMACENAMIENTO	K.2.2
A-1	Riesgo moderado	
A-2	Riesgo bajo	
C	COMERCIAL	K.2.3
C-1	Servicios	
C-2	Bienes	
E	ESPECIALES	K.2.4
F	FABRIL E INDUSTRIAL	K.2.5
F-1	Riesgo moderado	
F-2	Riesgo bajo	
I	INSTITUCIONAL	K.2.6
I-1	Reclusión	
I-2	Salud o incapacidad	
I-3	Educación	
I-4	Seguridad pública	
I-5	Servicio público	

Tabla 36. Grupos y subgrupos de ocupación (J.1.1-1 NSR-10).

En este proyecto la edificación será un centro educativo, por lo que el grupo y subgrupos de ocupación será: I-3, y se deberá seguir las disposiciones presentes en K.2.6 de la NSR-10.

J.3.3.1 - Categoría de riesgo de las edificaciones - con el fin de evaluar la resistencia requerida al fuego todas las edificaciones se clasificarán, en función de los grupos de ocupación definidos

en la tabla J.1.1-1, en una categoría de riesgo de pérdida de vidas humanas o amenaza de combustión.

Debido a que el grupo de ocupación según J.1.1-1 es (I-3), la clasificación de la estructura corresponde a la categoría II, la cual se definen a continuación:

J.3.3.1.2 — Categoría II — Esta categoría comprende edificaciones de riesgo intermedio, tales como:

- (a) Edificios para cualquier ocupación, de más de 10 pisos, que dispongan de sistemas de alarma contra incendio, visuales y sonoros e independientes entre sí, que sean probados por lo menos cada 60 días y cuenten con rociadores de agua automáticos a satisfacción de la autoridad competente.
- (b) Grupos de Ocupación (I-1), (I-3), (I-5), (C-1), (C-2), (E), (L), (M), (R-2) y (R-3). Entre otros ancianos, bares, restaurantes, cárceles, oficinas, centros comerciales, guarderías, colegios, universidades, hoteles, museos, teatros, salas de cine y salones de reunión.

8.2 CLASIFICACIÓN EN UNA CATEGORÍA DE RIESGO

J.3.3.2 — CLASIFICACIÓN DE LAS EDIFICACIONES EN UNA CATEGORÍA DE RIESGO — Toda edificación debe clasificarse en una de las categorías de riesgo definidas en J.3.3.1. Dependiendo del grupo de uso de la edificación bajo estudio, esta clasificación se hace en función del área construida, de acuerdo con la tabla J.3.3.-1, o en función del potencial combustible, de acuerdo con la tabla J.3.3.-2, estimado con base en las especificaciones contenidas en los numerales J.3.4.2 y J.3.4.3.

Grupos y subgrupos de ocupación	Área total construida, A_T m ²	Número de pisos						
		1	2	3	4	5	6	≥ 7
(C-1)	$A_T > 1500$	III	III	II	II	II	I	I
	$A_T < 1500$	III	III	III	II	II	II	I
(C-2)	$A_T > 500$	II	I	I	I	I	I	I
	$A_T < 500$			II	I	I	I	I
(E)	Sin límite	III	III	III	II	II	II	I
(I-2), (I-4)	$A_T > 1000$	III	II	II	I	I	I	I
	$500 < A_T < 1000$	III	III	II	II	I	I	I
	$A_T < 500$	III	III	III	II	II	I	I
(I-3)	$A_T > 1000$	II	II	I	I	I	I	I
	$A_T < 1000$		III	II	II	I	I	I
(L-1), (L-2), (L-3), (L-4)	$A_T > 1000$	II	I	I	I	I	I	I
(L-5), (I-1), (I-5)	$500 < A_T < 1000$	II	II	I	I	I	I	I
	$A_T < 500$	III	III	II	II	I	I	I
(R-1), (R-2)	Unidades > 140 m ²				II	I	I	I
	Unidades ≤ 140 m ²				III	II	II	I
(R-3)	$A_T > 5000$	III	II	I	I	I	I	I
	$A_T < 5000$	III	II	II	II	I	I	I

Notas: (1). En edificios para vivienda, el límite de 140 m² por unidad corresponde al promedio aritmético de las áreas de todas las unidades, sin tener en cuenta las zonas comunes.

Tabla 37. Categorización de las edificaciones contra el fuego (Tabla J.3.3-1 NSR-10)

Los elementos de concreto como columnas, vigas viguetas y losas deberán tener como mínimo **dos horas** de resistencia al fuego. Esta exigencia se encuentra normalizada según la clasificación y clasificación descrita anteriormente. A continuación, se presenta la siguiente tabla donde se especifica la resistencia en horas para esta edificación.

Elementos de la construcción	Categoría según la clasificación dada en J.3.3.1		
	I	II	III
Muros Cortafuego	3	2 ½	2
Muros de cerramiento de escaleras, ascensores, buitrones, ductos para basuras y corredores de evacuación	2	2	1 ½
Muros divisorios entre unidades	2	1 ½	1
Muros interiores no portantes	½	¼	-
Columnas, vigas, viguetas, losas, y muros portantes de cualquier material, y estructuras metálicas en celosía	2	1 ½	1
Cubiertas	1	1	½
Escaleras interiores no encerradas con muros	2	1½	1

Tabla 38. Resistencia requerida al fuego normalizado NTC 1480 (Tabla J.3.4-3).

8.3 EVALUACIÓN DE LA PROVISIÓN DE RESISTENCIA CONTRA FUEGO

Elementos de concreto

- Dimensión mínima de columnas:

Tipo de agregado	Resistencia al fuego en horas				
	1	1 ½	2	3	4
Silíceo	200	230	250	310	360
Carbonato	200	230	250	300	310
Liviano	200	220	230	270	310

Tabla 39. Dimensión mínima de columnas de concreto, en mm (Tabla J.3.5-1).

La columna de menor dimensión en la propuesta de reforzamiento es de 500mm

Cumple.

- **Espesor Mínimo de Muros y losas**

Tipo de agregado	Resistencia al fuego en horas				
	1	1 ½	2	3	4
Silíceo	90	110	130	160	180
Carbonato	80	100	120	150	170
Finos Livianos	70	80	100	120	140
Gruesos Livianos	60	80	90	110	130

Tabla 40. Espesor mínimo de losas y muros, en mm (Tabla J.3.5-2).

El muro estructural de menor espesor es de 150mm.

Cumple.

- **Recubrimiento en vigas de concreto.**

Tipo de agregado	Ancho de viga, mm.	Resistencia al fuego en horas				
		1	1 ½	2	3	4
Expansión restringida	130	20	20	20	30	30
	180	20	20	20	20	20
	≥ 250	20	20	20	20	20
Expansión no restringida	130	20	30	30	--	--
	180	20	20	20	40	80
	≥ 250	20	20	20	30	40

Tabla 41. Recubrimiento mínimo en vigas de concreto, en mm (tabla J.3.5-5).

El recubrimiento empleado en el diseño de vigas es de 50mm.

Cumple.

Por lo tanto, el presente diseño para el reforzamiento estructural, cumple con las provisiones de resistencia contra el fuego presentes en el Capítulo J del NSR-10.

Uso de Muros Livianos NO Estructurales:



La placa de yeso marca Gyplac se fabrica en Colombia por Gyplac S.A., resuelve los más variados requerimientos de la construcción, brindando óptimas respuestas en paredes divisorias, cielos rasos y revestimientos. Su aplicación es recomendada en todo tipo de obras, nuevas o de remodelación, en viviendas individuales, en propiedad horizontal, en hotelería, salud, establecimientos educativos, centros comerciales, y otras aplicaciones.

RESISTENCIA AL FUEGO

El desempeño de las placas de yeso ante la acción del fuego es muy óptimo, el yeso en su estado natural posee dos moléculas de agua en suspensión. En el proceso de fabricación se le extrae una molécula y media, que luego se le vuelve a incorporar para formar la pasta de yeso que queda contenida dentro las dos láminas de papel de varias capas que constituyen la placa de yeso, por lo tanto se trata de un yeso dihidratado, vale decir que el yeso que forma el núcleo de la placa se encuentra como estaba originalmente, con sus dos moléculas de agua en suspensión, que hará que la placa de yeso contribuya con un buen desempeño de resistencia al fuego. La evaporación del agua de cristalización contenida en las moléculas del yeso, permite una dispersión notable del calor al cual está sometido el elemento conformado por placas de yeso Gyplac RF durante un incendio, preservando las estructuras y retrasando así el rápido aumento de las temperaturas.

Por sus propiedades naturales disipa el fuego y la transferencia de calor, el yeso en su estado natural contiene 21% de agua aproximadamente, que comienza a evaporarse al ser calentado, retardando la transferencia de calor. El núcleo de yeso permanece incombustible pero se encoge por la pérdida de agua y aparece el agrietamiento, para prevenirlo se agregan fibras resistentes a altas temperaturas y aditivos que se expanden por efecto del calor, neutralizando los efectos devastadores del fuego.

El diseño de soluciones resistentes al fuego se establece mediante pruebas que se realizan en laboratorios especializados, que cuentan con los hornos de pruebas para tal fin. De estos ensayos surgen los diseños de cada solución constructiva según la necesidad. Estos diseños estarán conformados por materiales determinados, bajo una especificación precisa. Cuando se eligen diseños para cumplir con ciertos estándares de desempeño contra el fuego, se debe asegurar que cada componente del diseño seleccionado es el determinado y que está en un todo coincidente con lo especificado en el ensayo y que todo el sistema ha sido construido de acuerdo a los requerimientos del ensayo.

Las propiedades físicas de la placa de yeso Gyplac RF, asociadas con otros elementos, dan como resultado un sistema con características de prestación determinadas a priori, mediante los ensayos de laboratorio. El sistema permite obtener distintas resistencias al fuego variando la configuración de cada solución constructiva, es decir cambiando el número de placas de yeso RF, el espesor de las mismas, el tipo de estructuras utilizadas en los bastidores e incorporando materiales aislantes en su interior.

La calidad y cantidad de los materiales que conforman la solución constructiva son predeterminadas según sea la necesidad de respuesta, basándose siempre en pruebas experimentales de laboratorio cuyos resultados generarán certificados de resistencia al fuego que serán entregados por los organismos correspondientes.

9. ANEXOS

9.1 REPORTE DE DISEÑO DE VIGAS AÉREAS

9.2 DISEÑO DE RAMPAS

9.3 DISEÑO DE ELEMENTOS DE ACERO

9.4 REPORTE EDIFICIO A

9.5 REPORTE EDIFICIO B

9.6 RAMPA DE ACCESO SÓTANO EDIFICIO B