COLUMN REINFORCEMENT RESULTS

Column	Section	Combination	Station (mm)	N (kN)	M_{2s} (kN·m)	M_{3s} (kN·m)	Required A_s (mm²)	E_d/R_d
C1	C22	UCOMBO1	0	431.624	-14.663	9.475	590.14	0.9993
C1	C22	UCOMBO1	1,466	433.575	-8.602	8.602	226.93	0.9634
C1	C22	UCOMBO1	3,420	436.176	8.776	-8.705	226.93	0.9728
C2	C22	UCOMBO1	0	653.017	11.694	11.694	1,377.87	0.9991
C2	C22	UCOMBO1	1,466	654.968	11.720	11.720	1,388.98	0.9991
C2	C22	UCOMBO1	3,420	657.569	-11.756	-11.756	1,403.43	0.9992
C3	C22	UCOMBO1	0	478.590	9.398	9.801	419.19	0.9995
C3	C22	UCOMBO1	1,466	480.541	9.494	9.494	415.19	0.9995
C3	C22	UCOMBO1	3,420	483.142	-9.525	-9.525	429.27	0.9994
C4	C22	UCOMBO1	0	572.036	-11.043	10.567	936.87	0.9997
C4	C22	UCOMBO1	1,466	573.987	-10.663	10.663	929.39	0.9998
C4	C22	UCOMBO1	3,420	576.588	10.689	-10.689	945.88	0.9990
C5	C22	UCOMBO1	0	429.211	16.365	9.080	694.27	0.9990
C5	C22	UCOMBO1	1,466	431.161	8.508	8.508	226.93	0.9561
C5	C22	UCOMBO1	3,420	433.763	-9.775	-8.610	226.93	0.9896
C6	C22	UCOMBO1	0	427.766	-14.557	-9.276	559.62	0.9993
C6	C22	UCOMBO1	1,466	429.716	-8.452	-8.452	226.93	0.9516
C6	C22	UCOMBO1	3,420	432.318	8.619	8.553	226.93	0.9610
C7	C22	UCOMBO1	0	638.489	11.451	-11.830	1,310.03	0.9990
C7	C22	UCOMBO1	1,466	640.440	11.527	-11.527	1,306.13	0.9992
C7	C22	UCOMBO1	3,420	643.041	-11.570	11.570	1,318.55	0.9998
C8	C22	UCOMBO1	0	459.014	8.970	-10.357	352.42	0.9998
C8	C22	UCOMBO1	1,466	460.965	9.255	-9.255	310.98	0.9990
C8	C22	UCOMBO1	3,420	463.566	-9.294	9.294	323.32	0.9999
C9	C22	UCOMBO1	0	573.530	-11.113	-10.573	948.89	0.9992
C9	C22	UCOMBO1	1,466	575.481	-10.674	-10.674	939.87	0.9990
C9	C22	UCOMBO1	3,420	578.082	10.706	10.706	954.94	0.9988
C10	C22	UCOMBO1	0	427.151	16.343	-8.969	679.62	0.9994
C10	C22	UCOMBO1	1,466	429.102	8.428	-8.428	226.93	0.9499
C10	C22	UCOMBO1	3,420	431.703	-9.686	8.529	226.93	0.9831

Column	Section	Combination	Station (mm)	N (kN)	M_{2s} (kN·m)	M_{3s} (kN·m)	Required A_s (mm^2)	E_d/R_d
C1	C22	UCOMBO1	0	340.303	-18.283	11.355	734.83	0.9995
C1	C22	UCOMBO1	1,466	342.254	-5.625	5.625	226.93	0.7149
C1	C22	UCOMBO1	3,420	344.855	18.201	-11.788	761.58	0.9993
C2	C22	UCOMBO1	0	513.227	10.849	16.142	1,049.45	0.9991
C2	C22	UCOMBO1	1,466	515.178	9.914	9.914	604.50	0.9991
C2	C22	UCOMBO1	3,420	517.779	-11.165	-15.808	1,057.40	0.9988
C3	C22	UCOMBO1	0	394.317	6.664	15.397	401.34	0.9991
C3	C22	UCOMBO1	1,466	396.268	7.248	7.248	226.93	0.8556
C3	C22	UCOMBO1	3,420	398.869	-6.928	-14.486	352.42	0.9990
C4	C22	UCOMBO1	0	433.101	-11.121	15.364	730.68	0.9989
C4	C22	UCOMBO1	1,466	435.052	-8.661	8.661	226.93	0.9679
C4	C22	UCOMBO1	3,420	437.653	12.428	-14.521	753.53	0.9994
C5	C22	UCOMBO1	0	333.918	15.974	11.513	564.26	0.9991
C5	C22	UCOMBO1	1,466	335.869	5.454	5.454	226.93	0.6992
C5	C22	UCOMBO1	3,420	338.470	-18.927	-11.493	790.25	0.9994
C6	C22	UCOMBO1	0	337.256	-18.191	-10.833	692.96	0.9994
C6	C22	UCOMBO1	1,466	339.207	-5.543	-5.543	226.93	0.7074
C6	C22	UCOMBO1	3,420	341.808	18.109	11.215	715.47	0.9992
C7	C22	UCOMBO1	0	501.431	10.475	-16.767	1,032.08	0.9999
C7	C22	UCOMBO1	1,466	503.382	9.767	-9.767	540.11	0.9990
C7	C22	UCOMBO1	3,420	505.983	-10.682	16.405	1,033.65	0.9994
C8	C22	UCOMBO1	0	380.121	6.316	-15.828	380.05	0.9993
C8	C22	UCOMBO1	1,466	382.072	6.787	-6.787	226.93	0.8171
C8	C22	UCOMBO1	3,420	384.673	-6.591	14.837	321.42	0.9996
C9	C22	UCOMBO1	0	435.360	-11.181	-15.196	728.21	0.9990
C9	C22	UCOMBO1	1,466	437.311	-8.750	-8.750	226.93	0.9748
C9	C22	UCOMBO1	3,420	439.912	12.576	14.136	744.15	0.9986
C10	C22	UCOMBO1	0	331.942	16.556	-11.197	585.78	0.9991
C10	C22	UCOMBO1	1,466	333.893	5.402	-5.402	226.93	0.6944
C10	C22	UCOMBO1	3,420	336.494	-19.208	11.139	787.50	0.9993
C1	C22	UCOMBO1	0	247.335	-17.400	10.289	552.69	0.9989
C1	C22	UCOMBO1	1,466	249.286	-3.487	3.487	226.93	0.4993

Column	Section	Combination	Station (mm)	N (kN)	M_{2s} (kN·m)	M_{3s} (kN·m)	Required A_s (mm^2)	E_d/R_d
C1	C22	UCOMBO1	3,420	251.887	17.145	-10.309	534.92	0.9994
C2	C22	UCOMBO1	0	368.077	10.695	15.517	540.11	0.9989
C2	C22	UCOMBO1	1,466	370.028	6.416	6.416	226.93	0.7853
C2	C22	UCOMBO1	3,420	372.629	-10.714	-15.612	558.72	0.9990
C3	C22	UCOMBO1	0	287.211	4.277	14.788	226.93	0.9004
C3	C22	UCOMBO1	1,466	289.162	4.321	4.321	226.93	0.5886
C3	C22	UCOMBO1	3,420	291.763	-4.379	-14.932	226.93	0.9115
C4	C22	UCOMBO1	0	289.808	-8.586	14.967	269.31	0.9988
C4	C22	UCOMBO1	1,466	291.759	-4.379	4.379	226.93	0.5946
C4	C22	UCOMBO1	3,420	294.360	8.493	-15.075	272.59	0.9995
C5	C22	UCOMBO1	0	208.184	13.238	9.911	256.95	0.9993
C5	C22	UCOMBO1	1,466	210.134	2.766	2.766	226.93	0.4152
C5	C22	UCOMBO1	3,420	212.736	-12.845	-10.071	233.92	0.9995
C6	C22	UCOMBO1	0	245.181	-17.326	-9.700	512.04	0.9994
C6	C22	UCOMBO1	1,466	247.132	-3.445	-3.445	226.93	0.4946
C6	C22	UCOMBO1	3,420	249.733	17.076	9.692	494.46	0.9987
C7	C22	UCOMBO1	0	360.471	10.511	-15.961	543.52	0.9995
C7	C22	UCOMBO1	1,466	362.421	6.191	-6.191	226.93	0.7656
C7	C22	UCOMBO1	3,420	365.023	-10.496	16.037	559.62	0.9992
C8	C22	UCOMBO1	0	279.940	4.118	-15.418	226.93	0.9199
C8	C22	UCOMBO1	1,466	281.891	4.160	-4.160	226.93	0.5720
C8	C22	UCOMBO1	3,420	284.492	-4.217	15.493	226.93	0.9276
C9	C22	UCOMBO1	0	289.371	-8.599	-14.798	256.04	0.9990
C9	C22	UCOMBO1	1,466	291.322	-4.369	-4.369	226.93	0.5936
C9	C22	UCOMBO1	3,420	293.923	8.496	14.899	258.96	0.9994
C10	C22	UCOMBO1	0	207.209	14.128	-9.532	300.35	0.9993
C10	C22	UCOMBO1	1,466	209.159	2.749	-2.749	226.93	0.4131
C10	C22	UCOMBO1	3,420	211.761	-13.749	9.677	274.46	0.9996
C1	C22	UCOMBO1	0	153.736	-16.236	8.915	518.70	0.9992
C1	C22	UCOMBO1	1,466	155.687	-2.238	1.894	226.93	0.3085
C1	C22	UCOMBO1	3,420	158.289	16.330	-9.252	531.00	0.9991
C2	C22	UCOMBO1	0	224.913	8.709	13.237	226.93	0.9547

Column	Section	Combination	Station (mm)	N (kN)	M_{2s} (kN·m)	M_{3s} (kN·m)	Required A_s (mm^2)	E_d/R_d
C2	C22	UCOMBO1	1,466	226.864	3.064	3.064	226.93	0.4507
C2	C22	UCOMBO1	3,420	229.466	-9.031	-13.639	226.93	0.9876
C3	C22	UCOMBO1	0	178.544	2.288	11.743	226.93	0.6746
C3	C22	UCOMBO1	1,466	180.495	2.275	2.275	226.93	0.3534
C3	C22	UCOMBO1	3,420	183.096	-2.316	-12.420	226.93	0.7132
C4	C22	UCOMBO1	0	146.807	-5.313	11.515	226.93	0.7915
C4	C22	UCOMBO1	1,466	148.758	-1.793	1.793	226.93	0.2887
C4	C22	UCOMBO1	3,420	151.359	6.303	-12.215	226.93	0.8827
C5	C22	UCOMBO1	0	82.355	10.510	10.087	440.11	0.9994
C5	C22	UCOMBO1	1,466	84.306	1.241	1.729	226.93	0.1808
C5	C22	UCOMBO1	3,420	86.907	-11.129	-9.305	421.91	0.9995
C6	C22	UCOMBO1	0	152.499	-16.165	-8.291	485.79	0.9994
C6	C22	UCOMBO1	1,466	154.449	-2.218	-1.876	226.93	0.3060
C6	C22	UCOMBO1	3,420	157.051	16.255	8.640	497.65	0.9997
C7	C22	UCOMBO1	0	221.842	8.664	-13.869	226.93	0.9890
C7	C22	UCOMBO1	1,466	223.792	3.008	-3.008	226.93	0.4442
C7	C22	UCOMBO1	3,420	226.394	-8.931	14.199	248.85	0.9992
C8	C22	UCOMBO1	0	177.568	2.228	-12.576	226.93	0.7231
C8	C22	UCOMBO1	1,466	179.519	2.259	-2.259	226.93	0.3514
C8	C22	UCOMBO1	3,420	182.120	-2.300	13.212	226.93	0.7614
C9	C22	UCOMBO1	0	143.951	-5.465	-11.047	226.93	0.7699
C9	C22	UCOMBO1	1,466	145.902	-1.751	-1.751	226.93	0.2829
C9	C22	UCOMBO1	3,420	148.503	6.384	11.902	226.93	0.8702
C10	C22	UCOMBO1	0	82.380	10.768	-9.755	437.42	0.9983
C10	C22	UCOMBO1	1,466	84.331	1.162	-1.646	226.93	0.1778
C10	C22	UCOMBO1	3,420	86.932	-11.648	9.047	442.49	0.9996
C1	C22	UCOMBO1	0	63.352	-14.515	10.175	754.88	0.9991
C1	C22	UCOMBO1	1,371	65.177	-2.290	1.879	226.93	0.1859
C1	C22	UCOMBO1	3,200	67.611	14.037	-9.191	671.24	0.9987
C2	C22	UCOMBO1	0	88.312	10.342	11.768	503.98	0.9997
C2	C22	UCOMBO1	1,371	90.138	1.657	1.757	226.93	0.1970
C2	C22	UCOMBO1	3,200	92.571	-9.894	-11.562	456.05	0.9983

Column	Section	Combination	Station (mm)	N (kN)	M_{2s} (kN·m)	M_{3s} (kN·m)	Required A_s (mm^2)	E_d/R_d
C3	C22	UCOMBO1	0	72.747	2.797	10.871	258.31	0.9998
C3	C22	UCOMBO1	1,371	74.572	0.806	1.565	226.93	0.1570
C3	C22	UCOMBO1	3,200	77.006	-3.351	-10.700	238.13	0.9970
C4	C22	UCOMBO1	0	36.717	2.576	9.030	309.73	0.9994
C4	C22	UCOMBO1	1,371	38.543	1.436	1.028	226.93	0.1104
C4	C22	UCOMBO1	3,200	40.976	-0.426	-9.604	315.23	0.9993
C6	C22	UCOMBO1	0	62.927	-14.368	-9.815	733.51	0.9989
C6	C22	UCOMBO1	1,371	64.753	-2.272	-1.806	226.93	0.1829
C6	C22	UCOMBO1	3,200	67.186	13.876	8.878	651.10	0.9985
C7	C22	UCOMBO1	0	89.499	10.423	-12.108	525.42	0.9981
C7	C22	UCOMBO1	1,371	91.324	1.674	-1.733	226.93	0.1985
C7	C22	UCOMBO1	3,200	93.758	-9.963	12.084	484.49	0.9994
C8	C22	UCOMBO1	0	74.603	2.681	-11.292	274.93	0.9992
C8	C22	UCOMBO1	1,371	76.428	0.828	-1.539	226.93	0.1594
C8	C22	UCOMBO1	3,200	78.862	-3.271	11.324	266.56	0.9995
C9	C22	UCOMBO1	0	35.805	2.299	-8.479	279.17	0.9992
C9	C22	UCOMBO1	1,371	37.631	1.373	-0.953	226.93	0.1055
C9	C22	UCOMBO1	3,200	40.064	0.417	9.050	285.82	0.9993