

BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

NUMBER OF SPANS	SECTION DIMENSIONS				BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																				QUANTITIES																					
					Bars B ^⑤				Bars C & D				Bars E				Bars F ₁ ~ #4				Bars F ₂ ~ #4 at 1'-6" Max				Bars M ~ #4 at 1'-6" Max				Bars Y & Z ~ #4 at 1'-6" Max				Bars H ^⑤ 4~#4		Bars K		Per foot of Barrel		Curb		Total					
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bar C		Bar D		No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	10'-0"	5'-0"	11"	9"	162	#6	6"	22'-0"	5,353	162	#5	6"	10'-0"	1,690	7'-2"	1,211	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	72	39'-9"	1,912	56	5'-0"	187	28	5'-3"	98	11'-9"	220	22'-0"	59	46	131	1.927	385.1	1.6	190	78.7	15,595
3	10'-0"	5'-0"	11"	9"	162	#6	6"	32'-9"	7,969	162	#5	6"	10'-0"	1,690	7'-2"	1,211	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	103	39'-9"	2,735	56	5'-0"	187	56	5'-3"	196	11'-9"	440	32'-9"	88	68	193	2.796	590.3	2.4	281	114.2	23,892
4	10'-0"	5'-0"	11"	9"	162	#6	6"	43'-6"	10,585	162	#5	6"	10'-0"	1,690	7'-2"	1,211	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	134	39'-9"	3,558	56	5'-0"	187	84	5'-3"	295	11'-9"	659	43'-6"	116	90	256	3.665	795.4	3.2	372	149.8	32,187
5	10'-0"	5'-0"	11"	9"	162	#6	6"	54'-3"	13,200	162	#5	6"	10'-0"	1,690	7'-2"	1,211	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	165	39'-9"	4,381	56	5'-0"	187	112	5'-3"	393	11'-9"	879	54'-3"	145	112	318	4.534	1,000.5	4.0	463	185.4	40,483
6	10'-0"	5'-0"	11"	9"	162	#6	6"	67'-7"	16,445	162	#5	6"	10'-0"	1,690	7'-2"	1,211	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	196	39'-9"	5,204	56	5'-0"	187	140	5'-3"	491	11'-9"	1,099	66'-9"	178	132	375	5.403	1,221.4	4.8	553	220.9	49,408
2	10'-0"	6'-0"	11"	9"	162	#6	6"	22'-0"	5,353	162	#5	6"	11'-0"	1,859	7'-2"	1,211	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	78	39'-9"	2,071	56	6'-0"	224	28	5'-3"	98	13'-9"	257	22'-0"	59	46	131	2.011	395.2	1.6	190	82.0	15,997
3	10'-0"	6'-0"	11"	9"	162	#6	6"	32'-9"	7,969	162	#5	6"	11'-0"	1,859	7'-2"	1,211	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	111	39'-9"	2,947	56	6'-0"	224	56	5'-3"	196	13'-9"	514	32'-9"	88	68	193	2.907	602.6	2.4	281	118.7	24,384
4	10'-0"	6'-0"	11"	9"	162	#6	6"	43'-6"	10,585	162	#5	6"	11'-0"	1,859	7'-2"	1,211	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	144	39'-9"	3,824	56	6'-0"	224	84	5'-3"	295	13'-9"	772	43'-6"	116	90	256	3.804	810.0	3.2	372	155.4	32,772
5	10'-0"	6'-0"	11"	9"	162	#6	6"	54'-3"	13,200	162	#5	6"	11'-0"	1,859	7'-2"	1,211	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	177	39'-9"	4,700	56	6'-0"	224	112	5'-3"	393	13'-9"	1,029	54'-3"	145	112	318	4.701	1,017.4	4.0	463	192.0	41,158
6	10'-0"	6'-0"	11"	9"	162	#6	6"	67'-7"	16,445	162	#5	6"	11'-0"	1,859	7'-2"	1,211	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	210	39'-9"	5,576	56	6'-0"	224	140	5'-3"	491	13'-9"	1,286	66'-9"	178	132	375	5.597	1,240.5	4.8	553	228.7	50,173
2	10'-0"	7'-0"	11"	9"	162	#6	6"	22'-0"	5,353	162	#5	6"	12'-0"	2,028	7'-2"	1,211	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	78	39'-9"	2,071	56	7'-0"	262	28	5'-3"	98	15'-9"	295	22'-0"	59	46	131	2.094	401.3	1.6	190	85.4	16,242
3	10'-0"	7'-0"	11"	9"	162	#6	6"	32'-9"	7,969	162	#5	6"	12'-0"	2,028	7'-2"	1,211	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	111	39'-9"	2,947	56	7'-0"	262	56	5'-3"	196	15'-9"	589	32'-9"	88	68	193	3.019	609.6	2.4	281	123.2	24,666
4	10'-0"	7'-0"	11"	9"	162	#6	6"	43'-6"	10,585	162	#5	6"	12'-0"	2,028	7'-2"	1,211	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	144	39'-9"	3,824	56	7'-0"	262	84	5'-3"	295	15'-9"	884	43'-6"	116	90	256	3.943	818.0	3.2	372	160.9	33,091
5	10'-0"	7'-0"	11"	9"	162	#6	6"	54'-3"	13,200	162	#5	6"	12'-0"	2,028	7'-2"	1,211	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	177	39'-9"	4,700	56	7'-0"	262	112	5'-3"	393	15'-9"	1,178	54'-3"	145	112	318	4.867	1,026.3	4.0	463	198.7	41,514
6	10'-0"	7'-0"	11"	9"	162	#6	6"	67'-7"	16,445	162	#5	6"	12'-0"	2,028	7'-2"	1,211	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	210	39'-9"	5,576	56	7'-0"	262	140	5'-3"	491	15'-9"	1,473	66'-9"	178	132	375	5.792	1,250.4	4.8	553	236.5	50,567
2	10'-0"	8'-0"	11"	9"	162	#6	6"	22'-0"	5,353	162	#5	6"	13'-0"	2,197	7'-2"	1,211	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	84	39'-9"	2,230	56	8'-0"	299	28	5'-3"	98	17'-9"	332	22'-0"	59	46	131	2.177	411.4	1.6	190	88.7	16,644
3	10'-0"	8'-0"	11"	9"	162	#6	6"	32'-9"	7,969	162	#5	6"	13'-0"	2,197	7'-2"	1,211	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	119	39'-9"	3,160	56	8'-0"	299	56	5'-3"	196	17'-9"	664	32'-9"	88	68	193	3.130	622.0	2.4	281	127.6	25,160
4	10'-0"	8'-0"	11"	9"	162	#6	6"	43'-6"	10,585	162	#5	6"	13'-0"	2,197	7'-2"	1,211	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	154	39'-9"	4,089	56	8'-0"	299	84	5'-3"	295	17'-9"	996	43'-6"	116	90	256	4.082	832.6	3.2	372	166.5	33,674
5	10'-0"	8'-0"	11"	9"	162	#6	6"	54'-3"	13,200	162	#5	6"	13'-0"	2,197	7'-2"	1,211	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	189	39'-9"	5,019	56	8'-0"	299	112	5'-3"	393	17'-9"	1,328	54'-3"	145	112	318	5.034	1,043.2	4.0	463	205.4	42,189
6	10'-0"	8'-0"	11"	9"	162	#6	6"	67'-7"	16,445	162	#5	6"	13'-0"	2,197	7'-2"	1,211	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	224	39'-9"	5,948	56	8'-0"	299	140	5'-3"	491	17'-9"	1,660	66'-9"	178	132	375	5.986	1,269.5	4.8	553	244.2	51,332
2	10'-0"	9'-0"	11"	9"	162	#6	6"	22'-0"	5,353	194	#5	5"	14'-0"	2,833	7'-2"	1,450	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	90	39'-9"	2,390	56	9'-0"	337	28	5'-3"	98	19'-9"	369	22'-0"	59	46	131	2.261	439.1	1.6	190	92.0	17,754
3	10'-0"	9'-0"	11"	9"	162	#6	6"	32'-9"	7,969	194	#5	5"	14'-0"	2,833	7'-2"	1,450	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	127	39'-9"	3,372	56	9'-0"	337	56	5'-3"	196	19'-9"	739	32'-9"	88	68	193	3.241	652.0	2.4	281	132.0	26,360
4	10'-0"	9'-0"	11"	9"	162	#6	6"	43'-6"	10,585	194	#5	5"	14'-0"	2,833	7'-2"	1,450	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	164	39'-9"	4,355	56	9'-0"	337	84	5'-3"	295	19'-9"	1,108	43'-6"	116	90	256	4.221	864.8	3.2	372	172.0	34,965
5	10'-0"	9'-0"	11"	9"	162	#6	6"	54'-3"	13,200	194	#5	5"	14'-0"	2,833	7'-2"	1,450	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	201	39'-9"	5,337	56	9'-0"	337	112	5'-3"	393	19'-9"	1,478	54'-3"	145	112	318	5.201	1,077.7	4.0	463	212.0	43,570
6	10'-0"	9'-0"	11"	9"	162	#6	6"	67'-7"	16,445	194	#5	5"	14'-0"	2,833	7'-2"	1,450	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	238	39'-9"	6,320	56	9'-0"	337	140	5'-3"	491	19'-9"	1,847	66'-9"	178	132	375	6.181	1,306.3	4.8	553	252.0	52,804
2	10'-0"	10'-0"	11"	9"	162	#6	6"	22'-0"	5,353	194	#5	5"	15'-0"	3,035	7'-2"	1,450	194	#7	5"	11'-0"	4,362	14	18"	39'-9"	372	90	39'-9"	2,390	56	10'-0"	374	28	5'-3"	98	21'-9"	407	22'-0"	59	46	131	2.344	446.0	1.6	190	95.4	18,031
3	10'-0"	10'-0"	11"	9"	162	#6	6"	32'-9"	7,969	194	#5	5"	15'-0"	3,035	7'-2"	1,450	194	#7	5"	21'-9"	8,625	21	18"	39'-9"	558	127	39'-9"	3,372	56	10'-0"	374	56	5'-3"	196	21'-9"	814	32'-9"	88	68	193	3.352	659.8	2.4	281	136.5	26,674
4	10'-0"	10'-0"	11"	9"	162	#6	6"	43'-6"	10,585	194	#5	5"	15'-0"	3,035	7'-2"	1,450	194	#7	5"	32'-6"	12,887	28	18"	39'-9"	743	164	39'-9"	4,355	56	10'-0"	374	84	5'-3"	295	21'-9"	1,220	43'-6"	116	90	256	4.360	873.6	3.2	372	177.6	35,316
5	10'-0"	10'-0"	11"	9"	162	#6	6"	54'-3"	13,200	194	#5	5"	15'-0"	3,035	7'-2"	1,450	194	#7	5"	43'-3"	17,150	35	18"	39'-9"	929	201	39'-9"	5,337	56	10'-0"	374	112	5'-3"	393	21'-9"	1,627	54'-3"	145	112	318	5.367	1,087.4	4.0	463	218.7	43,958
6	10'-0"	10'-0"	11"	9"	162	#6	6"	67'-7"	16,445	194	#5	5"	15'-0"	3,035	7'-2"	1,450	194	#7	5"	54'-0"	21,413	42	18"	39'-9"	1,115	238	39'-9"	6,320	56	10'-0"	374	140	5'-3"	491	21'-9"											