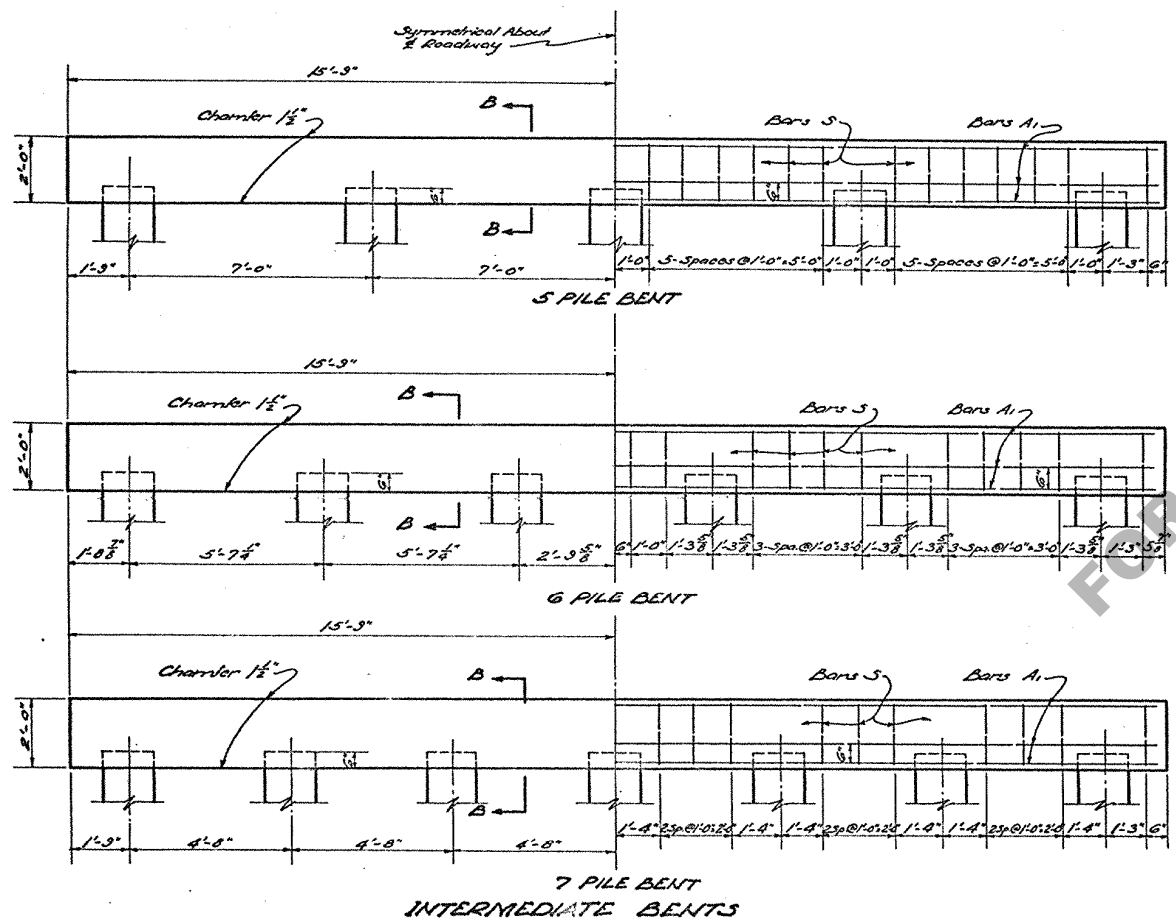
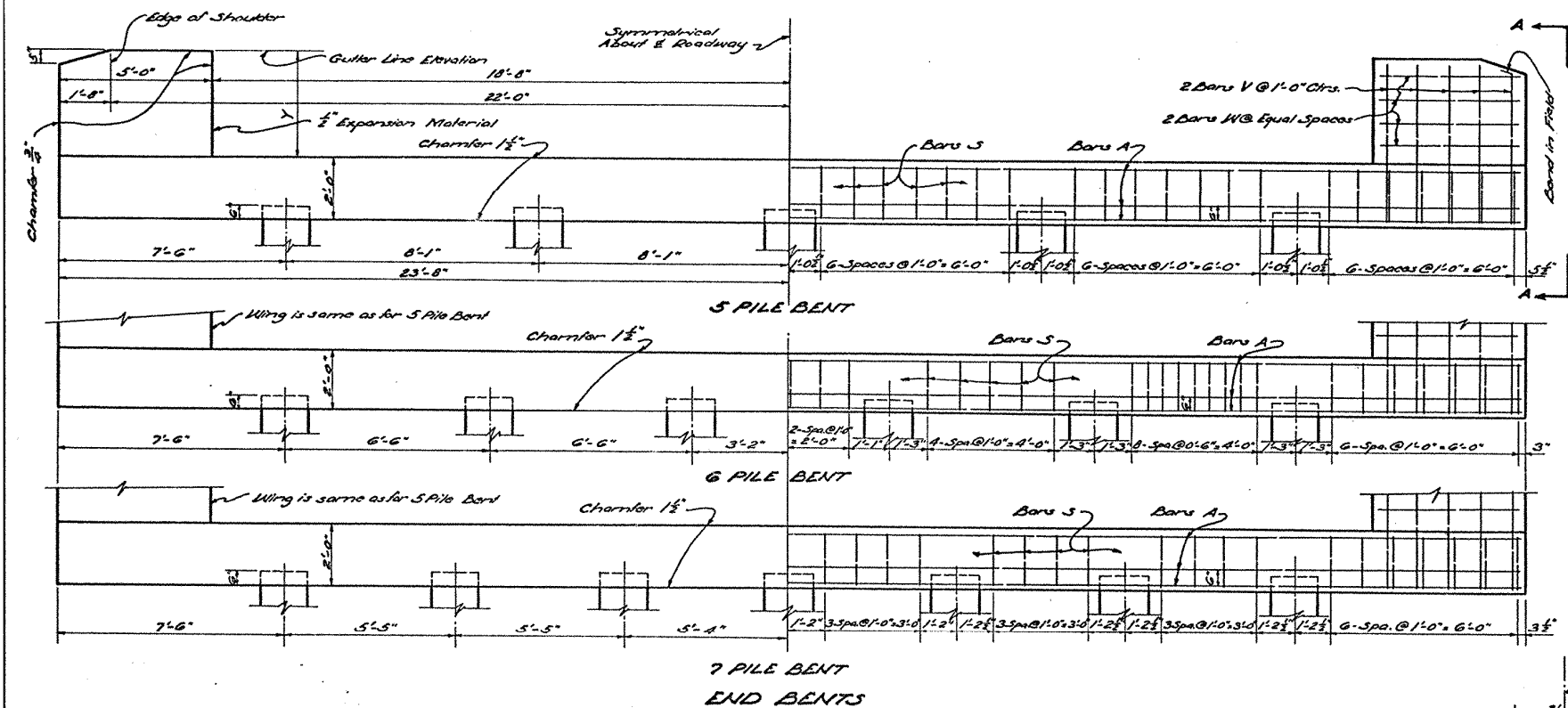


NOTE:
For Details of Concrete Piles
See Standard Plan C-5-143.

END BENTS - 30 TO 40 FT. SPANS																																		
30 FT. SPAN				32 FT. SPAN				34 FT. SPAN				36 FT. SPAN				38 FT. SPAN				40 FT. SPAN														
BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	Nº	SIZE	UNIT LENGTH	TOTAL LENGTH					
S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"	S	42	1/2"	10'-0"	420'-0"
	47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"		47	"	10'-0"	470'-0"
	38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"		38	"	10'-0"	380'-0"
	V	20	"	5'-0"		100'-0"	V	20	"		5'-1"	101'-8"	V	20		"	5'-3"	105'-0"	V		20	"	5'-5"	108'-4"		V	20	"	5'-6"		110'-0"	V	20	"
W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"	W	16	"	4'-8"	74'-8"
TOTAL				5 Pile Bents: 558'-0", 337#	TOTAL				5 Pile Bents: 556'-4", 336 Lbs.	TOTAL				5 Pile Bents: 555'-0", 334 Lbs.	TOTAL				5 Pile Bents: 553'-0", 332 Lbs.	TOTAL				5 Pile Bents: 551'-8", 330 Lbs.	TOTAL				5 Pile Bents: 550'-0", 328 Lbs.					
TOTAL				6 Pile Bents: 644'-0", 431#	TOTAL				6 Pile Bents: 642'-4", 432 Lbs.	TOTAL				6 Pile Bents: 640'-0", 430 Lbs.	TOTAL				6 Pile Bents: 638'-0", 428 Lbs.	TOTAL				6 Pile Bents: 636'-8", 427#	TOTAL				6 Pile Bents: 635'-0", 426#					
TOTAL				7 Pile Bents: 730'-0", 471#	TOTAL				7 Pile Bents: 728'-4", 472 Lbs.	TOTAL				7 Pile Bents: 726'-0", 470 Lbs.	TOTAL				7 Pile Bents: 724'-0", 468 Lbs.	TOTAL				7 Pile Bents: 722'-8", 467#	TOTAL				7 Pile Bents: 721'-0", 466#					
A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"	A	10	1 1/8"	47'-0"	470'-0"
	10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"
	10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"
	10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"		10	1 1/8"	47'-0"	470'-0"
TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#	TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#	TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#	TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#	TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#	TOTAL				1/2" Bars 5 Pile Bents: 470'-0", 2437#					
TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 6 Pile Bents: 470'-0", 2437#					
TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 7 Pile Bents: 470'-0", 2437#					
TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#	TOTAL				1 1/2" Bars 8 Pile Bents: 470'-0", 2437#					
S	Pile Bent	Class 11 Concrete: 12,640 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,620 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,590 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,560 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,530 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,500 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,470 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,440 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,410 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,380 Cu. Yds.					
		Reinft. Steel: 2834 Lbs.			Reinft. Steel: 2835 Lbs.			Reinft. Steel: 2836 Lbs.			Reinft. Steel: 2837 Lbs.			Reinft. Steel: 2838 Lbs.			Reinft. Steel: 2839 Lbs.			Reinft. Steel: 2840 Lbs.			Reinft. Steel: 2841 Lbs.			Reinft. Steel: 2842 Lbs.								
Pile Bent	Pile Bent	Class 11 Concrete: 12,410 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,390 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,360 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,330 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,300 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,270 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,240 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,210 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,180 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,150 Cu. Yds.					
		Reinft. Steel: 2328 Lbs.			Reinft. Steel: 2329 Lbs.			Reinft. Steel: 2330 Lbs.			Reinft. Steel: 2331 Lbs.			Reinft. Steel: 2332 Lbs.			Reinft. Steel: 2333 Lbs.			Reinft. Steel: 2334 Lbs.			Reinft. Steel: 2335 Lbs.			Reinft. Steel: 2336 Lbs.			Reinft. Steel: 2337 Lbs.		Reinft. Steel: 2338 Lbs.			
Pile Bent	Pile Bent	Class 11 Concrete: 12,130 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,110 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,080 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,050 Cu. Yds.		Pile Bent	Class 11 Concrete: 12,020 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,990 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,960 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,930 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,900 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,870 Cu. Yds.					
		Reinft. Steel: 2282 Lbs.			Reinft. Steel: 2283 Lbs.			Reinft. Steel: 2284 Lbs.			Reinft. Steel: 2285 Lbs.			Reinft. Steel: 2286 Lbs.			Reinft. Steel: 2287 Lbs.			Reinft. Steel: 2288 Lbs.			Reinft. Steel: 2289 Lbs.			Reinft. Steel: 2290 Lbs.			Reinft. Steel: 2291 Lbs.		Reinft. Steel: 2292 Lbs.		Reinft. Steel: 2293 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 11,830 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,810 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,780 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,750 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,720 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,690 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,660 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,630 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,600 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,570 Cu. Yds.					
		Reinft. Steel: 2242 Lbs.			Reinft. Steel: 2243 Lbs.			Reinft. Steel: 2244 Lbs.			Reinft. Steel: 2245 Lbs.			Reinft. Steel: 2246 Lbs.			Reinft. Steel: 2247 Lbs.			Reinft. Steel: 2248 Lbs.			Reinft. Steel: 2249 Lbs.			Reinft. Steel: 2250 Lbs.			Reinft. Steel: 2251 Lbs.		Reinft. Steel: 2252 Lbs.		Reinft. Steel: 2253 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 11,530 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,510 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,480 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,450 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,420 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,390 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,360 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,330 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,300 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,270 Cu. Yds.					
		Reinft. Steel: 2202 Lbs.			Reinft. Steel: 2203 Lbs.			Reinft. Steel: 2204 Lbs.			Reinft. Steel: 2205 Lbs.			Reinft. Steel: 2206 Lbs.			Reinft. Steel: 2207 Lbs.			Reinft. Steel: 2208 Lbs.			Reinft. Steel: 2209 Lbs.			Reinft. Steel: 2210 Lbs.			Reinft. Steel: 2211 Lbs.		Reinft. Steel: 2212 Lbs.		Reinft. Steel: 2213 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 11,230 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,210 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,180 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,150 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,120 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,090 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,060 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,030 Cu. Yds.		Pile Bent	Class 11 Concrete: 11,000 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,970 Cu. Yds.					
		Reinft. Steel: 2162 Lbs.			Reinft. Steel: 2163 Lbs.			Reinft. Steel: 2164 Lbs.			Reinft. Steel: 2165 Lbs.			Reinft. Steel: 2166 Lbs.			Reinft. Steel: 2167 Lbs.			Reinft. Steel: 2168 Lbs.			Reinft. Steel: 2169 Lbs.			Reinft. Steel: 2170 Lbs.			Reinft. Steel: 2171 Lbs.		Reinft. Steel: 2172 Lbs.		Reinft. Steel: 2173 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 10,930 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,910 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,880 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,850 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,820 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,790 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,760 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,730 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,700 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,670 Cu. Yds.					
		Reinft. Steel: 2122 Lbs.			Reinft. Steel: 2123 Lbs.			Reinft. Steel: 2124 Lbs.			Reinft. Steel: 2125 Lbs.			Reinft. Steel: 2126 Lbs.			Reinft. Steel: 2127 Lbs.			Reinft. Steel: 2128 Lbs.			Reinft. Steel: 2129 Lbs.			Reinft. Steel: 2130 Lbs.			Reinft. Steel: 2131 Lbs.		Reinft. Steel: 2132 Lbs.		Reinft. Steel: 2133 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 10,630 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,610 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,580 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,550 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,520 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,490 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,460 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,430 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,400 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,370 Cu. Yds.					
		Reinft. Steel: 2082 Lbs.			Reinft. Steel: 2083 Lbs.			Reinft. Steel: 2084 Lbs.			Reinft. Steel: 2085 Lbs.			Reinft. Steel: 2086 Lbs.			Reinft. Steel: 2087 Lbs.			Reinft. Steel: 2088 Lbs.			Reinft. Steel: 2089 Lbs.			Reinft. Steel: 2090 Lbs.			Reinft. Steel: 2091 Lbs.		Reinft. Steel: 2092 Lbs.		Reinft. Steel: 2093 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 10,330 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,310 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,280 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,250 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,220 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,190 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,160 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,130 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,100 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,070 Cu. Yds.					
		Reinft. Steel: 2042 Lbs.			Reinft. Steel: 2043 Lbs.			Reinft. Steel: 2044 Lbs.			Reinft. Steel: 2045 Lbs.			Reinft. Steel: 2046 Lbs.			Reinft. Steel: 2047 Lbs.			Reinft. Steel: 2048 Lbs.			Reinft. Steel: 2049 Lbs.			Reinft. Steel: 2050 Lbs.			Reinft. Steel: 2051 Lbs.		Reinft. Steel: 2052 Lbs.		Reinft. Steel: 2053 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 10,030 Cu. Yds.		Pile Bent	Class 11 Concrete: 10,010 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,980 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,950 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,920 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,890 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,860 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,830 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,800 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,770 Cu. Yds.					
		Reinft. Steel: 2002 Lbs.			Reinft. Steel: 2003 Lbs.			Reinft. Steel: 2004 Lbs.			Reinft. Steel: 2005 Lbs.			Reinft. Steel: 2006 Lbs.			Reinft. Steel: 2007 Lbs.			Reinft. Steel: 2008 Lbs.			Reinft. Steel: 2009 Lbs.			Reinft. Steel: 2010 Lbs.			Reinft. Steel: 2011 Lbs.		Reinft. Steel: 2012 Lbs.		Reinft. Steel: 2013 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 9,730 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,710 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,680 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,650 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,620 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,590 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,560 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,530 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,500 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,470 Cu. Yds.					
		Reinft. Steel: 1962 Lbs.			Reinft. Steel: 1963 Lbs.			Reinft. Steel: 1964 Lbs.			Reinft. Steel: 1965 Lbs.			Reinft. Steel: 1966 Lbs.			Reinft. Steel: 1967 Lbs.			Reinft. Steel: 1968 Lbs.			Reinft. Steel: 1969 Lbs.			Reinft. Steel: 1970 Lbs.			Reinft. Steel: 1971 Lbs.		Reinft. Steel: 1972 Lbs.		Reinft. Steel: 1973 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 9,430 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,410 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,380 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,350 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,320 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,290 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,260 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,230 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,200 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,170 Cu. Yds.					
		Reinft. Steel: 1922 Lbs.			Reinft. Steel: 1923 Lbs.			Reinft. Steel: 1924 Lbs.			Reinft. Steel: 1925 Lbs.			Reinft. Steel: 1926 Lbs.			Reinft. Steel: 1927 Lbs.			Reinft. Steel: 1928 Lbs.			Reinft. Steel: 1929 Lbs.			Reinft. Steel: 1930 Lbs.			Reinft. Steel: 1931 Lbs.		Reinft. Steel: 1932 Lbs.		Reinft. Steel: 1933 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 9,130 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,110 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,080 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,050 Cu. Yds.		Pile Bent	Class 11 Concrete: 9,020 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,990 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,960 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,930 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,900 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,870 Cu. Yds.					
		Reinft. Steel: 1882 Lbs.			Reinft. Steel: 1883 Lbs.			Reinft. Steel: 1884 Lbs.			Reinft. Steel: 1885 Lbs.			Reinft. Steel: 1886 Lbs.			Reinft. Steel: 1887 Lbs.			Reinft. Steel: 1888 Lbs.			Reinft. Steel: 1889 Lbs.			Reinft. Steel: 1890 Lbs.			Reinft. Steel: 1891 Lbs.		Reinft. Steel: 1892 Lbs.		Reinft. Steel: 1893 Lbs.	
Pile Bent	Pile Bent	Class 11 Concrete: 8,830 Cu. Yds.		Pile Bent	Class 11 Concrete: 8,810 Cu. Yds.		Pile Bent	Class 11 Concrete: 8																										