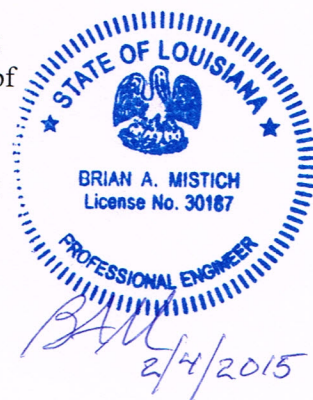


PROJECT : SLVHCS REPLACEMENT MEDICAL CENTER DATE: 2/4/2015

10 FT FENCE HEIGHT, TERMINAL POST CALCULATIONS

FENCE POST FOOTING AND SPACING CALCULATIONS
CHAIN LINK FENCE WIND LOAD GUIDE WLG 2445 - 1/2014

"CF1"	Coefficient for Fence Mesh Size	(Table 9)	7.26
"CF2"	Coefficient for Wind Exposure	(Table 10)	1
"CF3"	Coefficient of icing effect	(Table 11)	1
	Line Post Selection	(Table 1 thru 8)	1.8
"S1"	Allowable Lateral Soil Pressure (Imbedded in 10" thick, concrete slab)	(1806.2, pg 32)	1200 psf
"WF"	Wind Force	(Table 13)	26.860 lbs/sqft
"d"	I Diameter of Fence Post Footing		5 ft
"pd"	Fence Post Diameter		3.5 in
" H "	Fence Post Height above Footing		10 ft
"NA"	Net Area of Fence Force Acts Upon (* .707)		70 sqft
" c "	Distance of Applied Force Above Footing	*****	5.5 ft
"P"	Applied Force on Net Area	*****	258.98 lbf
"A"	Intermediate Area for Depth Calculation	*****	0.101
=====			
"FS"	Recommended Maximum Fence Spacing	*****	13.068 ft
"D"	Minimum Depth of Footing		1.100 ft
	Therefore remaining support required:		0.270 ft
=====			
Additional Footing Required from Remainder of Concrete Slab			
	Ratio of remainder		0.245
H'	Adjusted fence height for remainder		2.45 ft
S1'	Allowable Lateral Soil Pressure	(1806.2, pg 32)	200.00 psf
d'	Diameter of Fence Post Footing		1.00 ft
=====			
c'	Distance of Applied Force Above Footing	*****	1.349 ft
P'	Applied Force on Net Area	*****	90.748 lbf
A'	Intermediate Area for Depth Calculation	*****	1.062
=====			
D'	Remainder footing required to be supported by soil		2.216 ft
=====			
Group 1A ASTM F1043 SCH 40 ASTM F1083-30K psi yield 3.5" dia Fence Post Table 4			



PROJECT : SLVHCS REPLACEMENT MEDICAL CENTER DATE: 2/4/2015

10 FT FENCE HEIGHT, LINE POST CALCULATIONS

FENCE POST FOOTING AND SPACING CALCULATIONS
CHAIN LINK FENCE WIND LOAD GUIDE WLG 2445 - 1/2014

"CF1"	Coefficient for Fence Mesh Size	(Table 9)	7.26
"CF2"	Coefficient for Wind Exposure	(Table 10)	1
"CF3"	Coefficient of icing effect	(Table 11)	1
	Line Post Selection	(Table 1 thru 8)	1.8
"S1"	Allowable Lateral Soil Pressure (Imbedded in 10" thick, concrete slab)	(1806.2, pg 32)	1200 psf
"WF"	Wind Force	(Table 13)	26.860 lbs/sqft
"d"	Diameter of Fence Post Footing		8 ft
"pd"	Fence Post Diameter		2.875 in
" H "	Fence Post Height above Footing		10 ft
"NA"	Net Area of Fence Force Acts Upon		100 sqft
" c "	Distance of Applied Force Above Footing	*****	5.5 ft
"P"	Applied Force on Net Area	*****	369.97 lbf
"A"	Intermediate Area for Depth Calculation	*****	0.090
=====			
"FS"	Recommended Maximum Fence Spacing	*****	13.068 ft
"D"	Minimum Depth of Footing (Concrete Slab 10" Thick)		1.037 ft
	Therefore remaining support required:		0.207 ft
=====			
Additional Footing Required from Remainder of Concrete Slab			
	Ratio of remainder		0.199
H'	Adjusted fence height for remainder		1.99 ft
S1'	Allowable Lateral Soil Pressure	(1806.2, pg 32)	200.00 psf
d'	Diameter of Fence Post Footing		1.00 ft
=====			
c'	Distance of Applied Force Above Footing	*****	1.096 ft
P'	Applied Force on Net Area	*****	73.720 lbf
A'	Intermediate Area for Depth Calculation	*****	0.863
=====			
D'	Remainder footing required to be supported by soil		1.800 ft
=====			

Group 1A ASTM F1043 SCH 40 ASTM F1083-30K psi yield 3.5" dia Fence Post Table 4



[Handwritten Signature]
2/4/2015