

ESSEX, VERMONT
 ESSEX STPG SGNL (17)
 ROUTE 15 & 128

Spread Footing Analysis - 2001 AASHTO SPECIFICATIONS

Drawing No. 031407

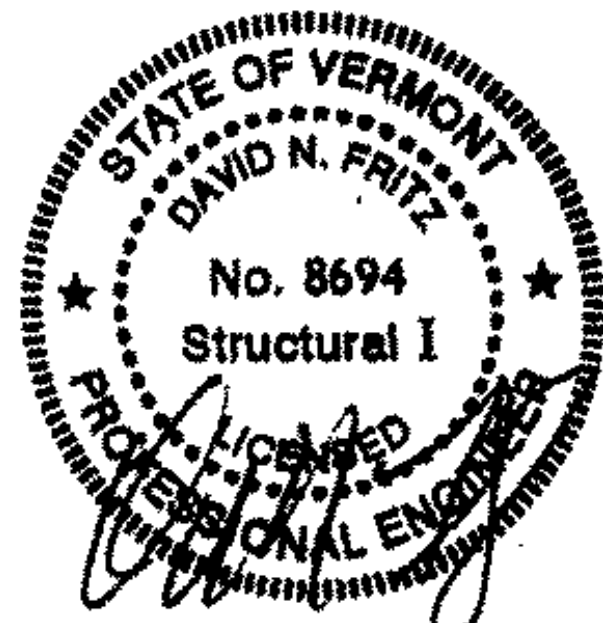
TWIN 45' ARMS	
Structure ID	50914-B444-Y1
Fx - Shear (lbs)	2170
Fy - Axial (lbs)	3389
Fz - Shear (lbs)	2170
Mx - Moment (ft-lbs)	58148
My - Torsion (ft-lbs)	54108
Mz - Moment (ft-lbs)	58148

Soil Unit Wt (pcf)	110
Soil Friction Coef.	0.4
Conc. Unit Wt (pcf)	150
Concrete Strength (psi)	3500
Reinforcing Yield (psi)	60000

Pedestal Diameter (ft)	3.00
Pedestal Height (ft)	3.50
Footing Thickness (ft)	1.50
X - Footing Width (ft)	8.00
Z - Footing Width (ft)	8.00

Check O.T. & Sliding:	
Pedestal Wt. (lb)	3711
Footing Wt. (lb)	14400
Soil Wt. (lb)	21919
Pole Wt. (lb)	3389
Total Wt. (lb)	43399

X - Factor of Safety (O.T.)	2.52
Z - Factor of Safety (O.T.)	2.52
Factor of Safety (Sliding)	5.66



3/19/07