ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MLS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 25' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 25

R E S U L T S S U M M A R Y

MAXIMUM COMBINED STRESS RATIO
IN EACH MAJOR COMPONENT
====(GROUPS I,II & III)====

POLE (AT 0.00 (FT))	= 0.73
SIGNAL AND SIGN ARM 1	= 0.73
BASE PLATE	= 0.68
ANCHOR BOLTS	= 0.71
S/S ARM 1 ATTACH. BOLTS	= 0.33
S/S ARM 1 ATTACH. PLATE	= 0.86

MAXIMUM REACTIONS APPLIED TO FOUNDATION
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BENDING MOMENT	=	33601 FT-LBS
TORSION	=	19828 FT-LBS
SHEAR FORCE	=	1943 LBS
AXIAL FORCE	=	1375 LBS

MAXIMUM BENDING + AXIAL DEAD WT. STRESS
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POLE	=	10.78 KSI
SIGN/SIGNAL ARM 1	=	11.09 KSI

RESULTANT DEFLECTION OF POLE TOP
CAUSED BY DEAD WEIGHT
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0.89 DEGREES