UP BEND- THE RECOMMENDED RESTRAINED LENGTH FOR THE UP DOWN BEND RESTRAINED LENGTH BEND(S) IS LIS OR "LENGTH LOW SIDE", IN ADDITION TO RESTRAINING THE UP -Lhs-BEND(S), AND JOINT THAT FALLS WITHIN THIS LENGTH ON EACH SIDE OF THE UP BEND(S) SHOULD BE RESTRAINED. IF Lhs AND LIS OVERLAP, ALL JOINTS OF THE OFFSET SHOULD BE STRAINED. VERTICAL OFFSETS CONTAIN DOWN BENDS AND UP BENDS. DOWN BEND- THE RECOMMENDED RESTRAINED LENGTH FOR THE DOWN BEND(S) IS Lhs OR "LENGTH HIGH SIDE", IN ADDITION TO RESTRAINING THE DOWN BEND(S), AND JOINT THAT FALLS WITHIN THIS LENGTH ON EACH SIDE OF THE DOWN BEND SHOULD BE RESTRAINED.

efferson Utilities Inc.

270 Industrial Boulevard Kearneysville, WV 25430 VERTICAL OFFSET

Not to Scale

W - 2.02

UP BEND RESTRAINED LENGTH

APPROVED DATE: May 10, 2010