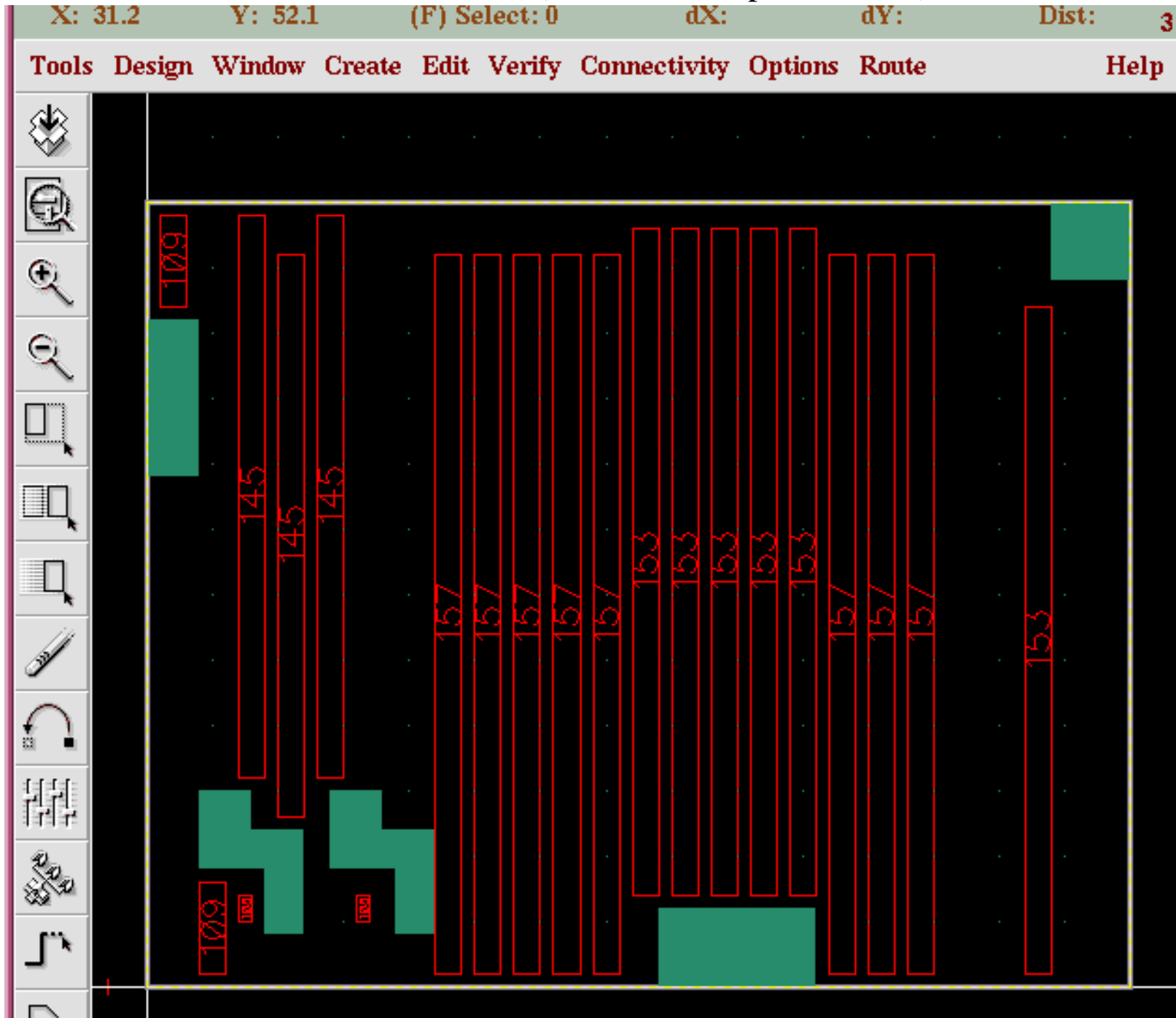
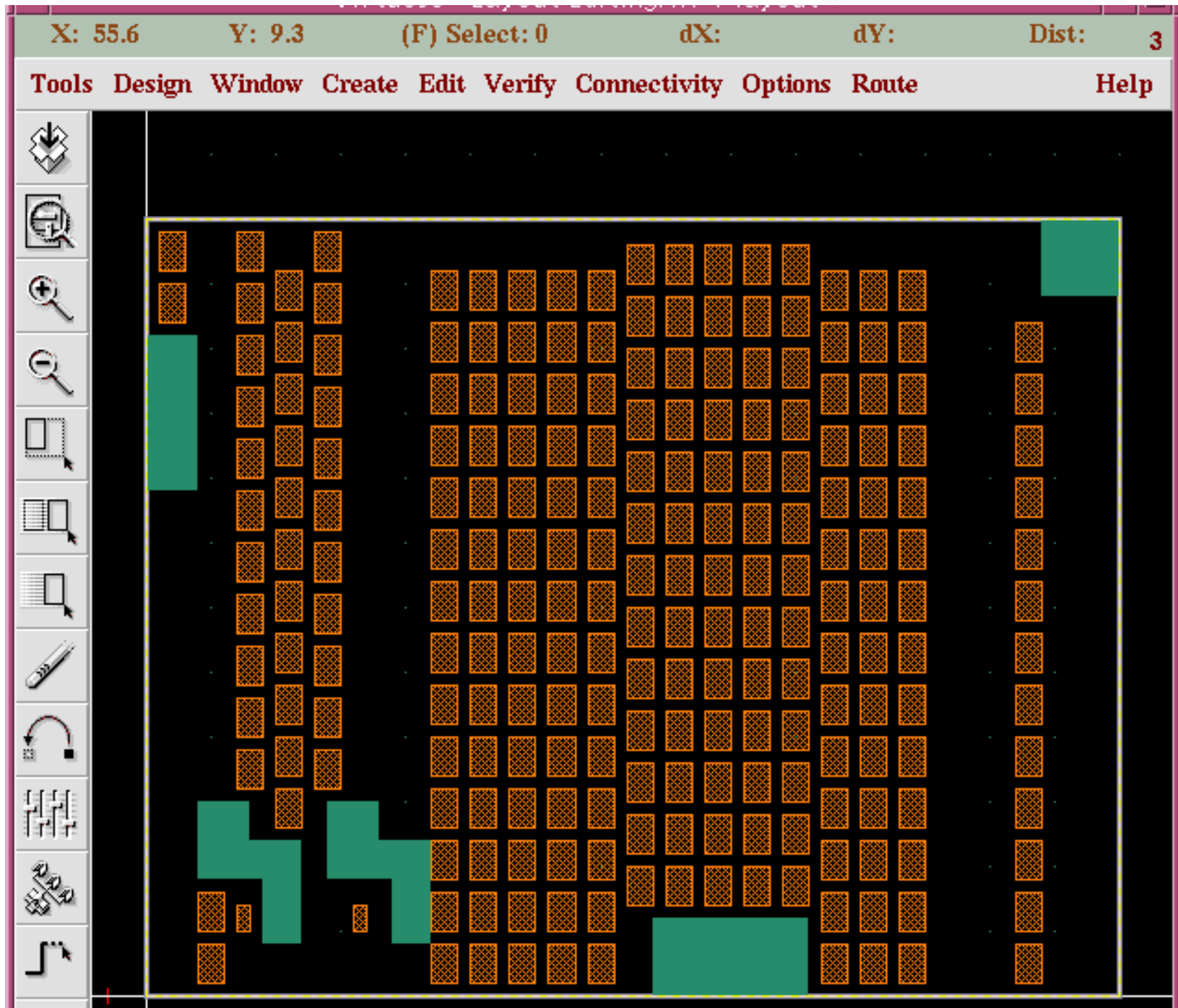


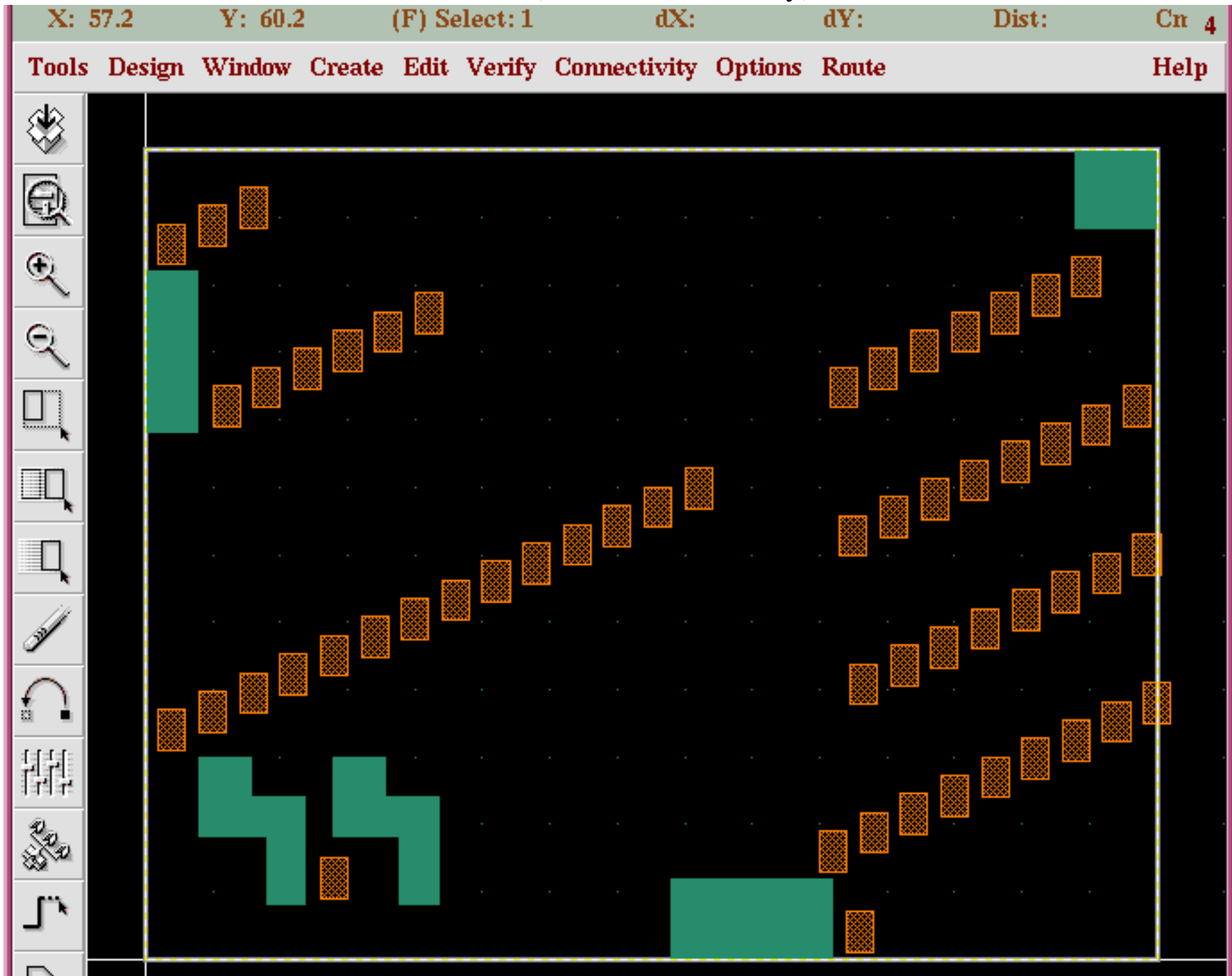
Case1, with offset = 0 (hierarchical representation)



# Case1 with offset = 0 (flattened view)



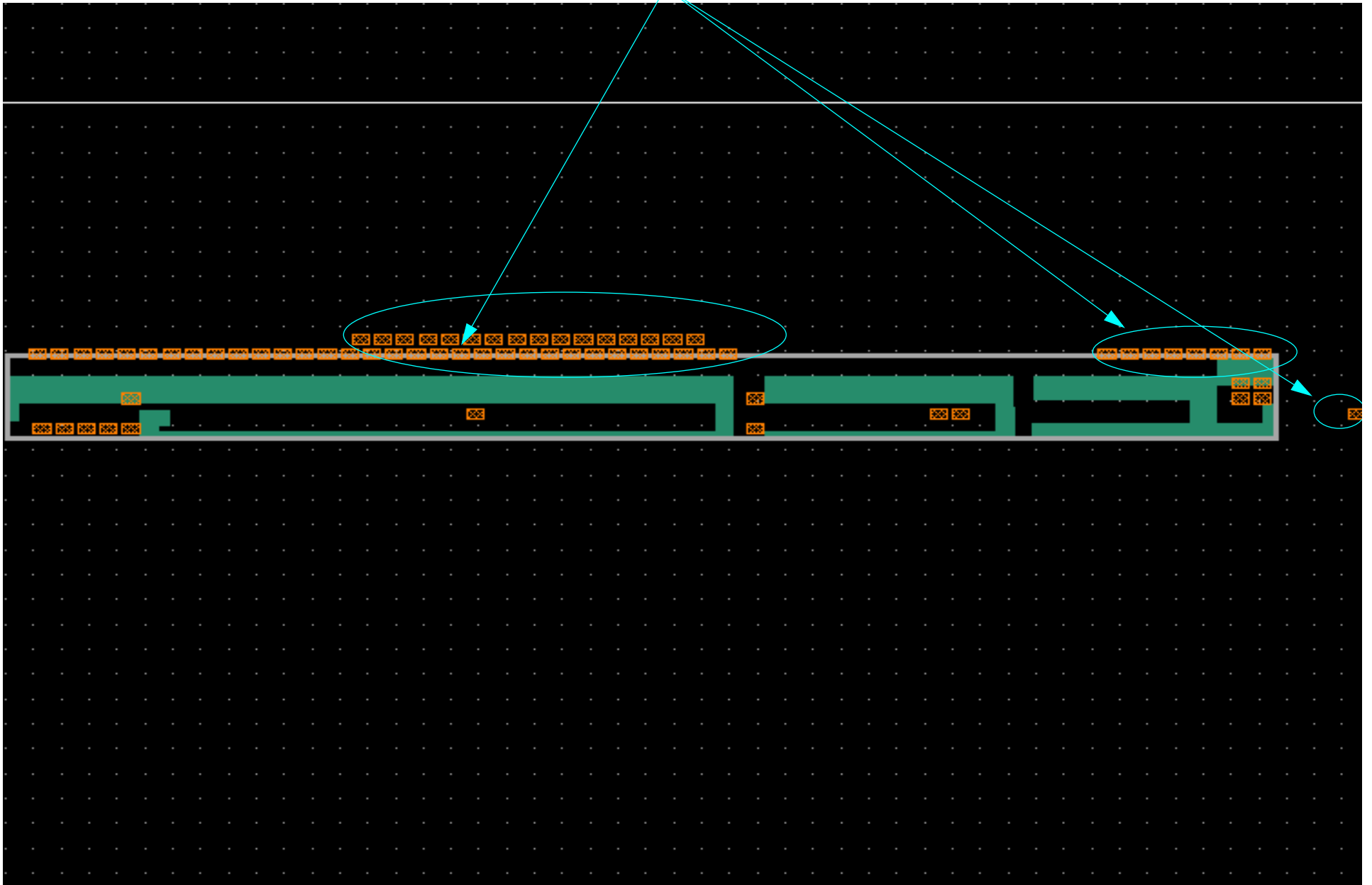
Case 1 with offset !=0 (two-level hierarchy), flattened view



# Case2 with offset = 0

violation in exclusion area

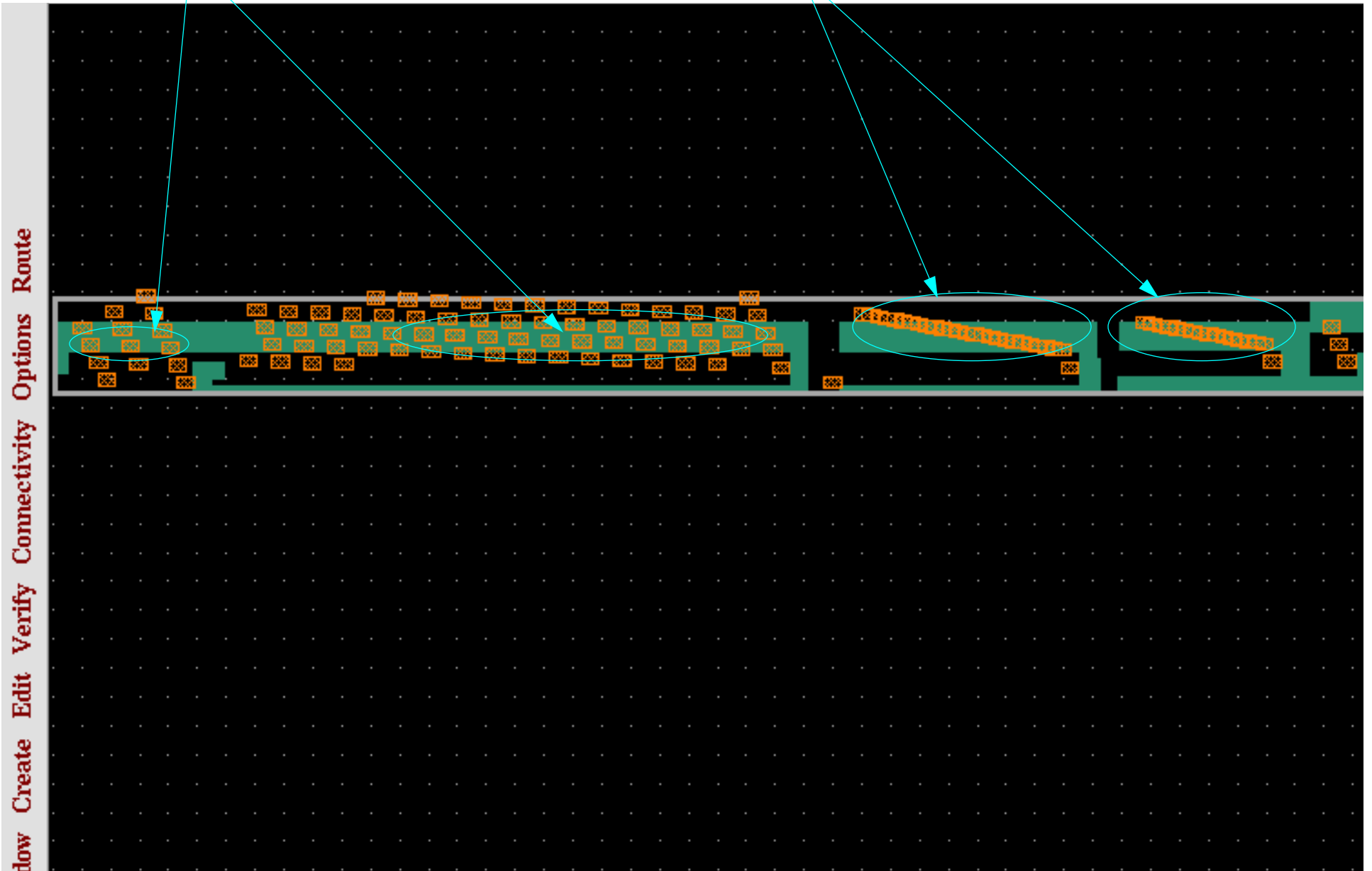
out of predefined cell boundary



Case2 with offset != 0 (flattened view)

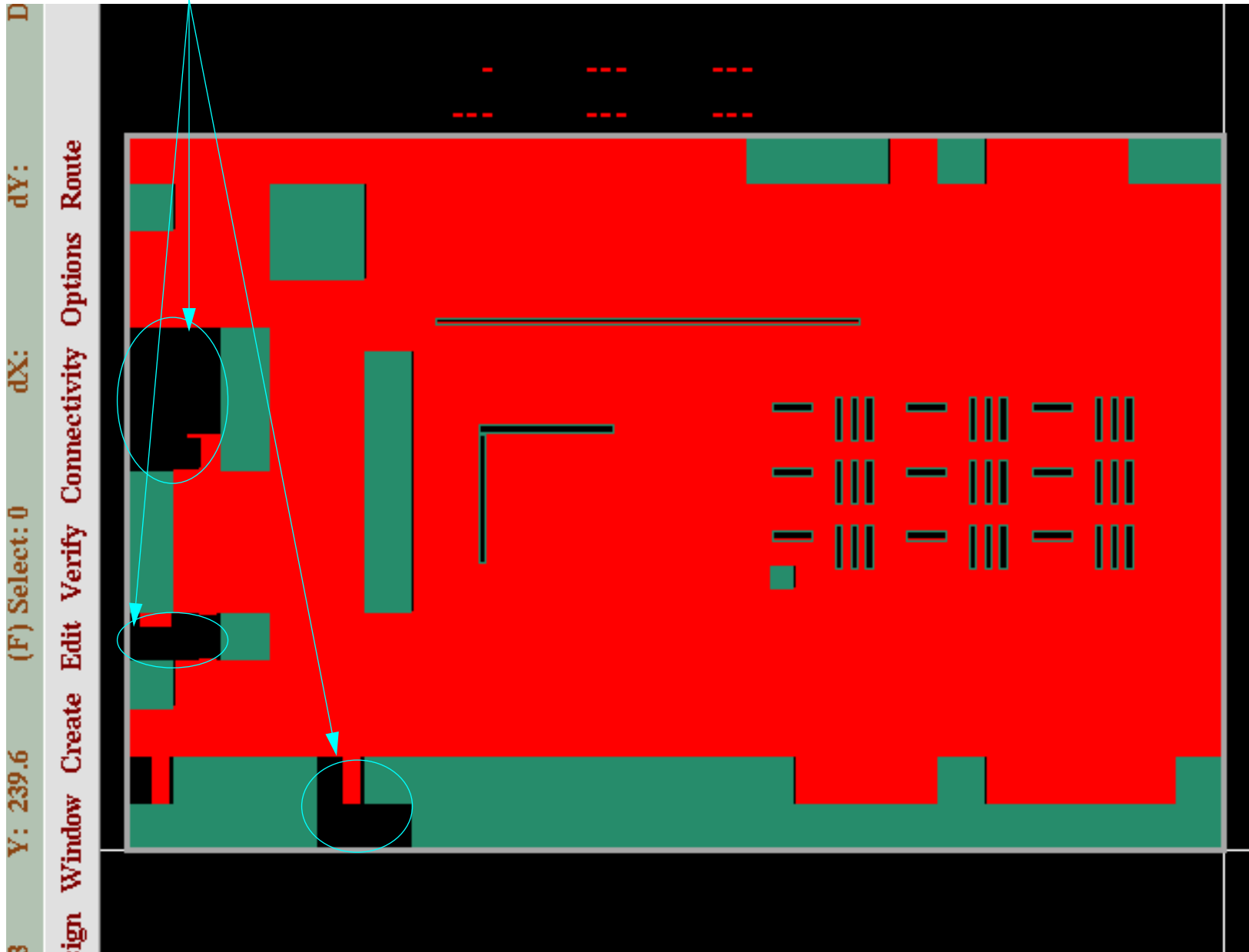
patterns in exclusion area

patterns overlapped

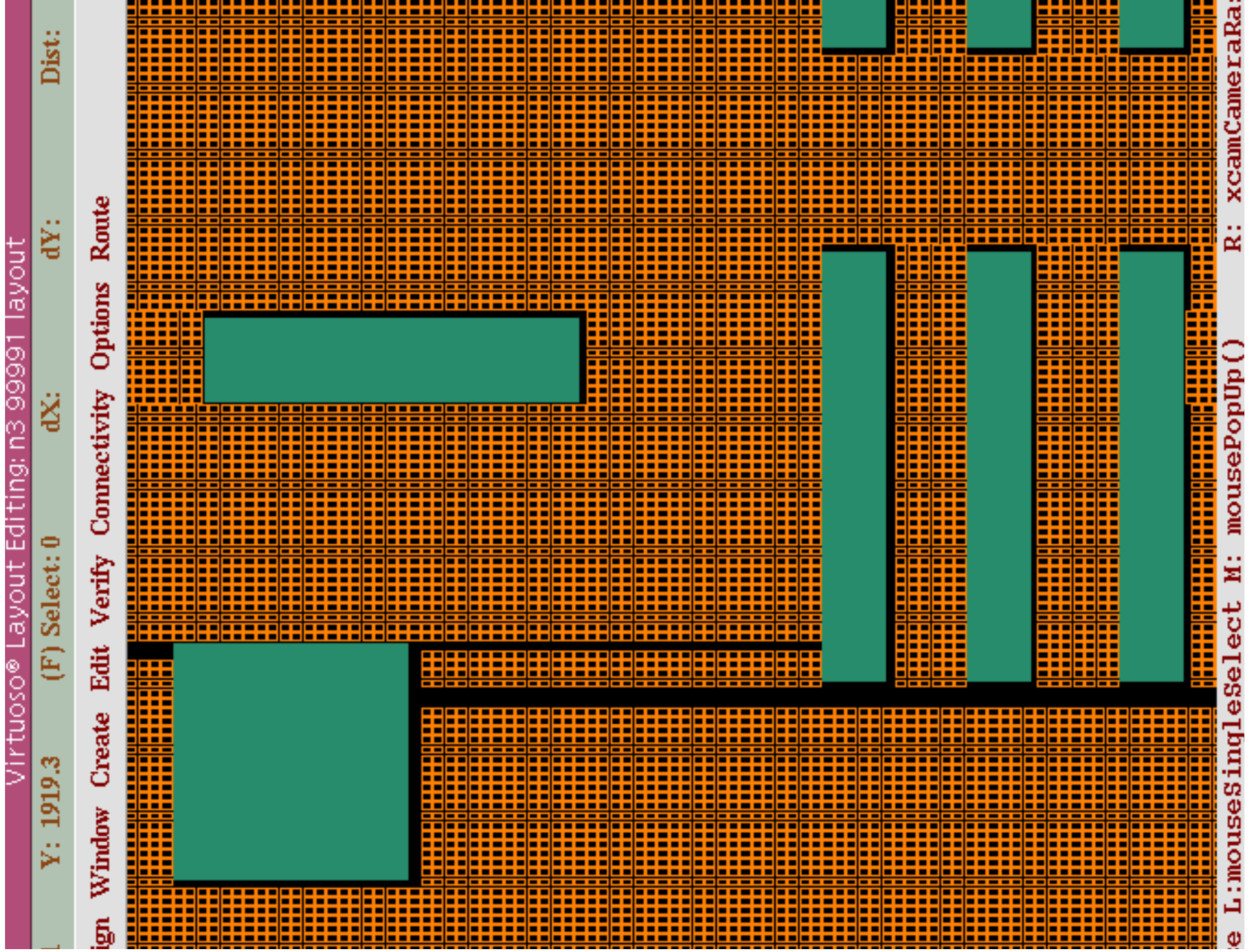


Case 3 with offset = 0

missing fill patterns



Case 3 with offset = 0 (flattened view; partial)



Case 3 with offset !=0 (flatten view, partial)

