In the following, you will find 3 diagrams (attached) taken from various intersections of Runway 16R/34L at the Reno-Tahoe International Airport scaled to 1 inch to 60 feet. The pavement consists of 17 inches of portland cement concrete (PCC) on an 8 inch asphalt treated permeable base (ATB). Assume the subgrade as a k values of 150 psi/in. Your task is to:

a. Establish the pattern of joints – length and width
b. Establish the types of joints
c. Establish where dowels and tied bars are to be used
d. Establish the pattern of paving

To illustrate the joint pattern or the paving scheme, use the attached diagrams to draw a scaled plan of the layout. Clearly label and legend the joint type and whether dowels are used. Note that each of the diagrams represents or is a blowup of a portion of the overall layout shown below.

Overall Layout of Intersections – Segment of R/W 16/34 – NTS.