WHAT IS CLAIMED IS:

1. A method for video decoding in a video decoder, the method comprising:

determining motion information of a current block predicted with inter prediction, the motion information indicating one or more reference blocks of the current block associated with respective one or more reference pictures;

when a motion information constraint indicates that the one or more reference blocks are within picture boundaries of the respective one or more reference pictures, reconstructing the current block based on the one or more reference blocks, wherein the one or more reference blocks have a same size as the current block; and

when a first motion vector (MV) indicated by the motion information points from a region in the current block to a first reference region, the first reference region being a region of a first reference block in the one or more reference blocks and being outside a picture boundary of a first reference picture of the one or more reference pictures, the picture boundaries including the picture boundary of the first reference picture,

determining a first clipped MV pointing from the region in the current block to an updated first reference region by clipping the first MV such that the updated first reference region is in an updated first reference block that is within the picture boundary of the first reference picture; and

reconstructing the region in the current block based on the updated first reference region.

2. The method of claim 1, wherein

the current block is bi-predicted with an adaptive motion vector prediction (AMVP) mode;

the motion information indicates the first MV pointing from the current block to the first reference block and a second MV pointing from the current block to a second reference block associated with a second reference picture;

the one or more reference blocks consist of the first reference block and the second reference block; and

the motion information constraint indicates that the first reference block is within the picture boundary of the first reference picture and the second reference block is within a picture