Vi
$$(W^{2}x^{i}+b)+q_{i}=1$$
 Consider $Y_{i}=1$.

Since q_{i} is unreshotted in sign, $q_{i}>0$ will correspond to samples an one side of $W^{2}x+b=1$ and $q_{i}<0$ to samples on the other side.

The other side.

 $W^{2}x+b=1$
 $W^{2}x+b=1$

Similarly, you can examine the hyperplane $W^{T}x+b=-1$.