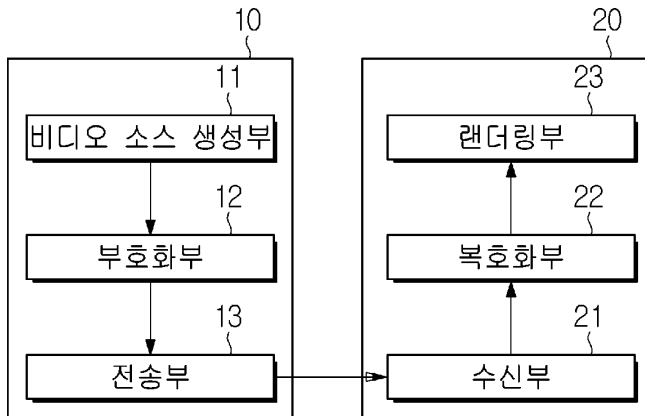
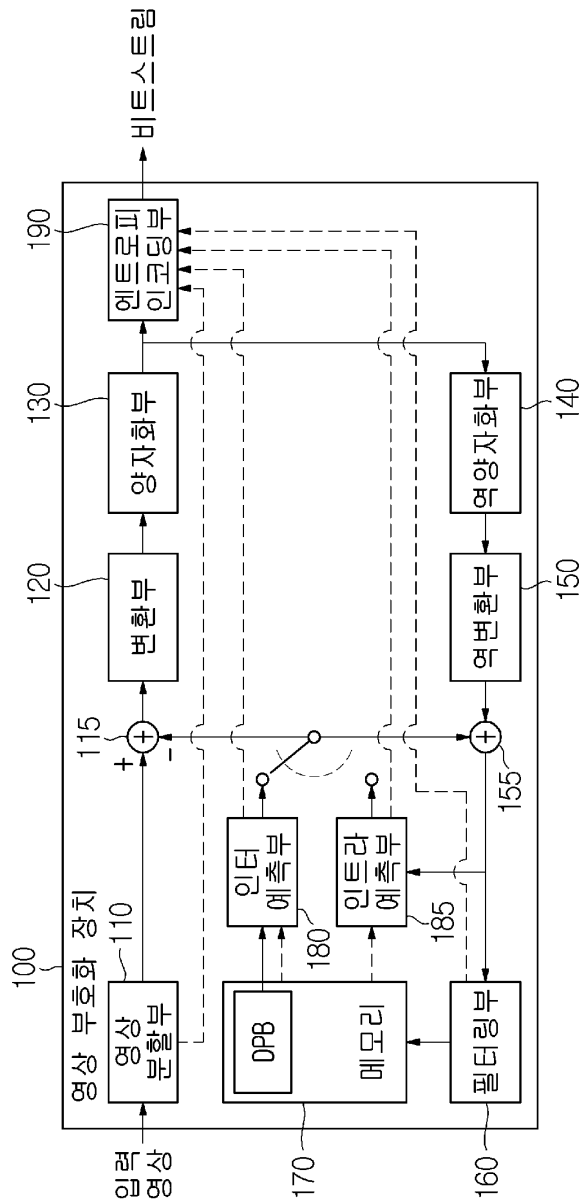


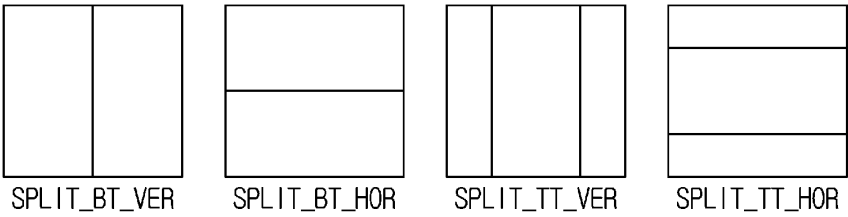
[도1]



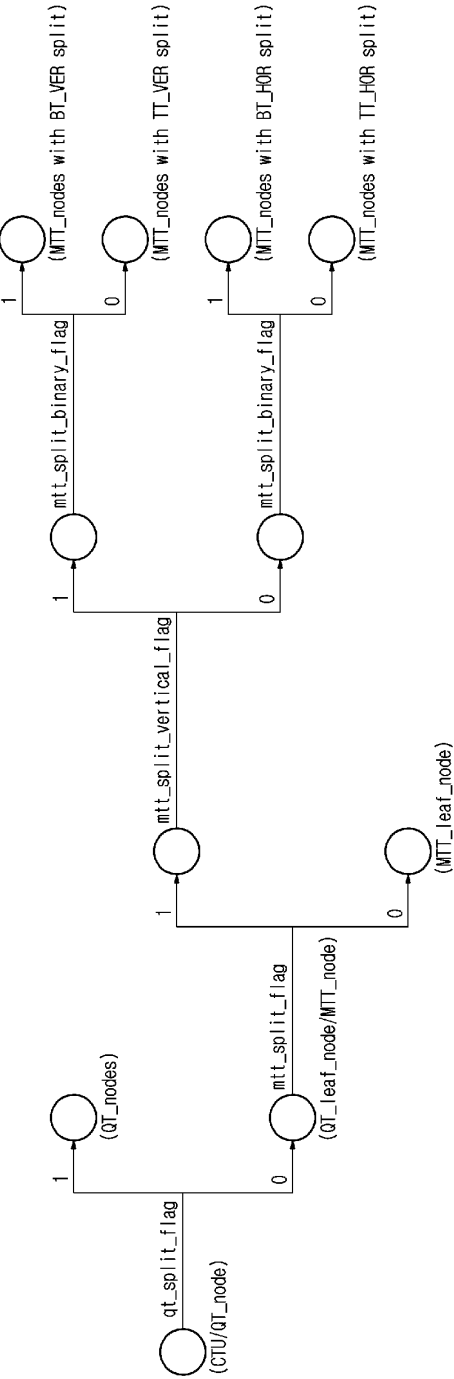
[도2]



[도5]



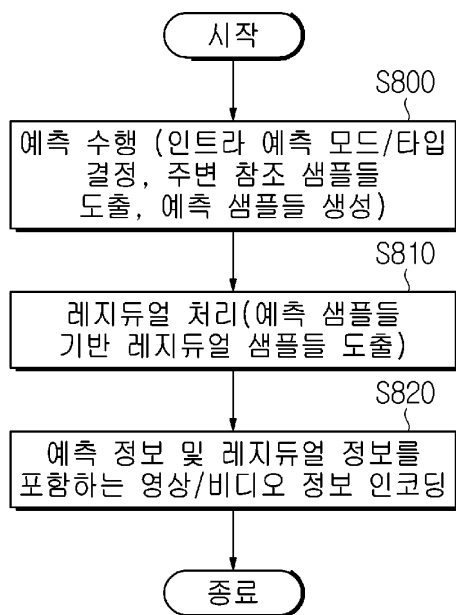
[도6]



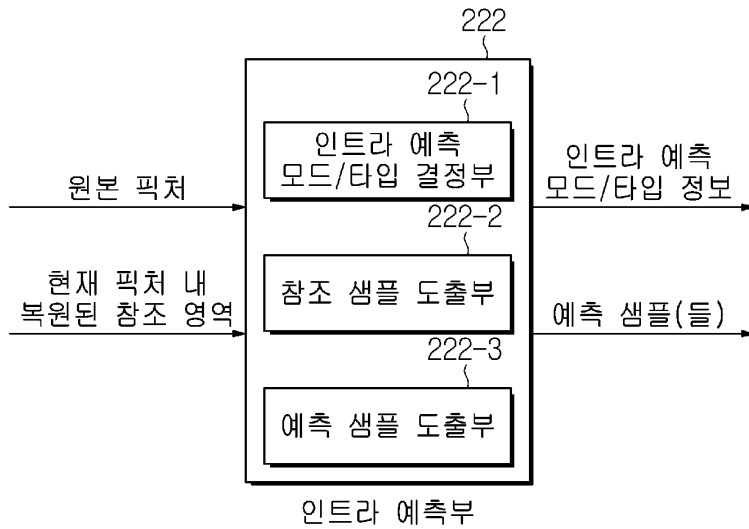
[도7]



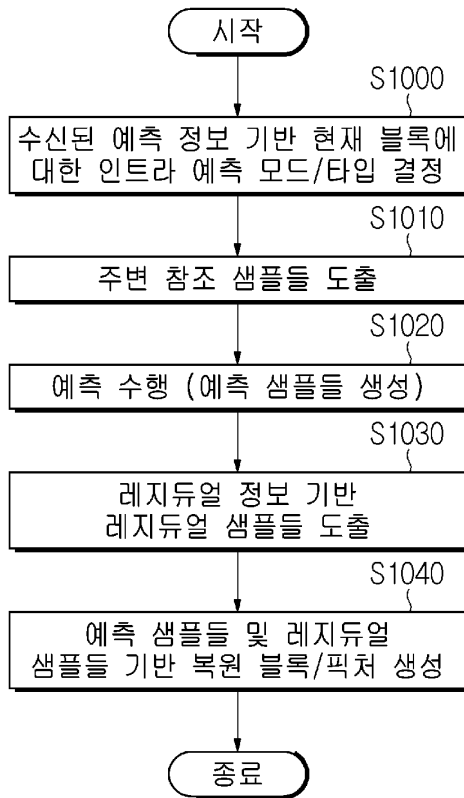
[도8]



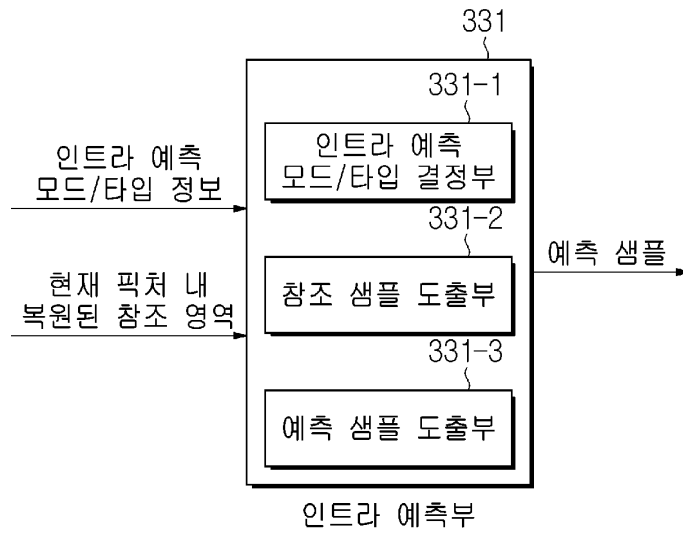
[도9]



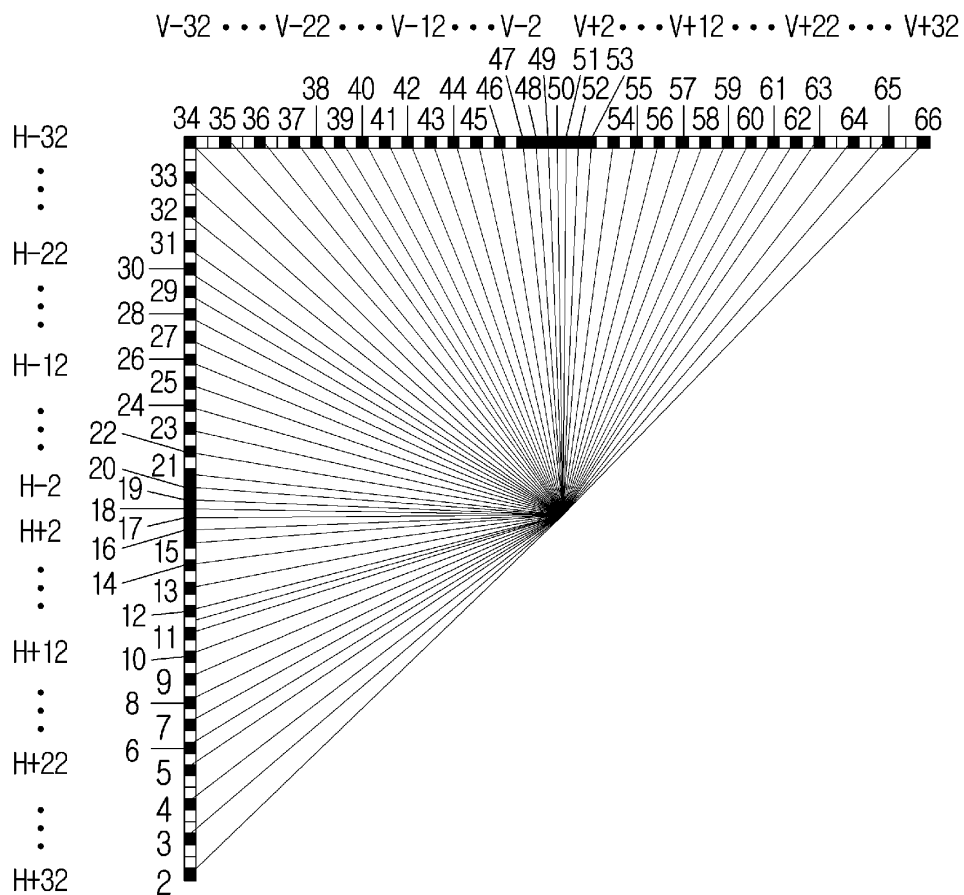
[도10]



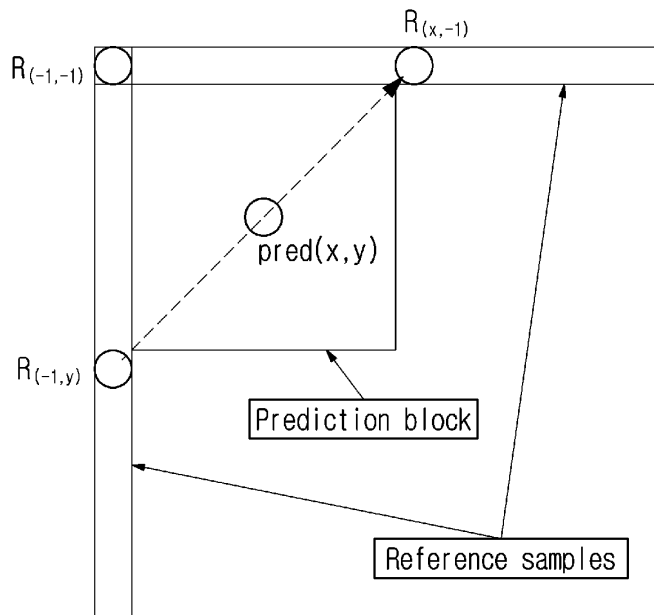
[도11]



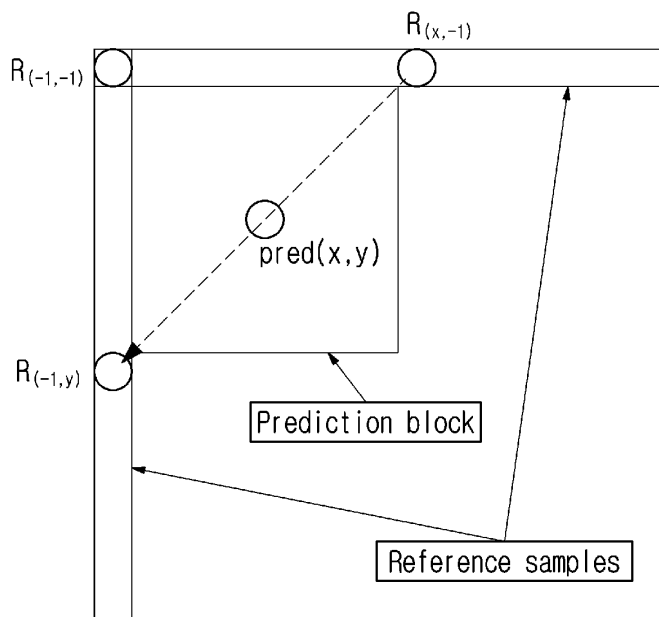
[도12]



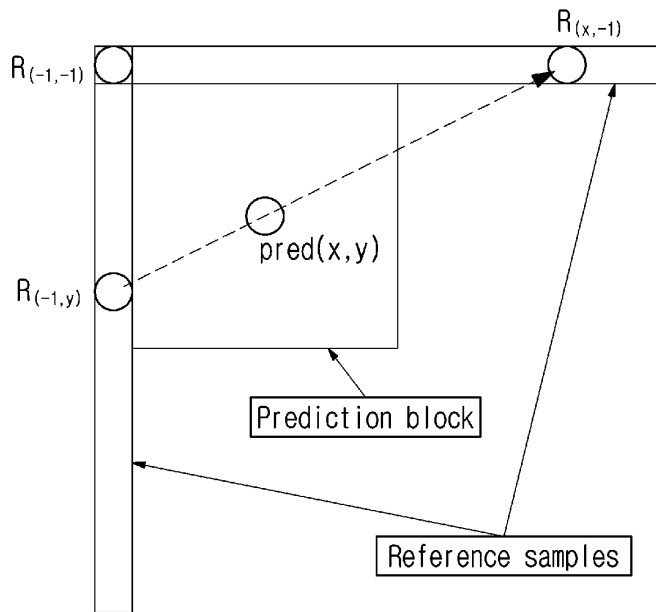
[도 13a]



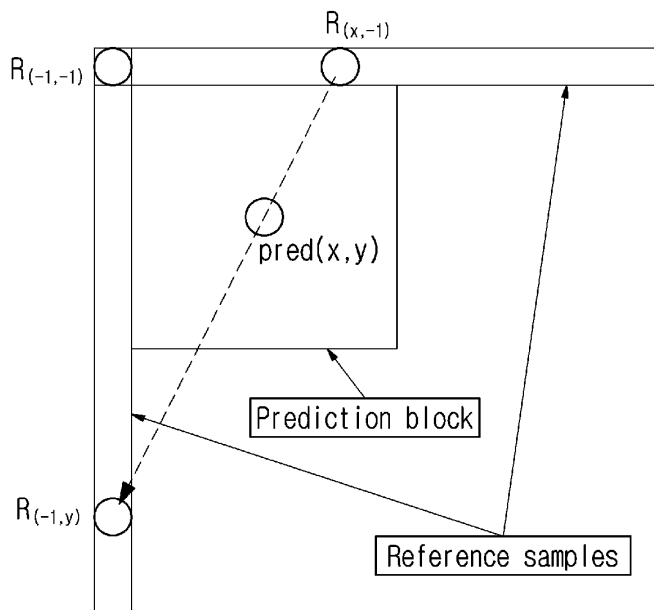
[도 13b]



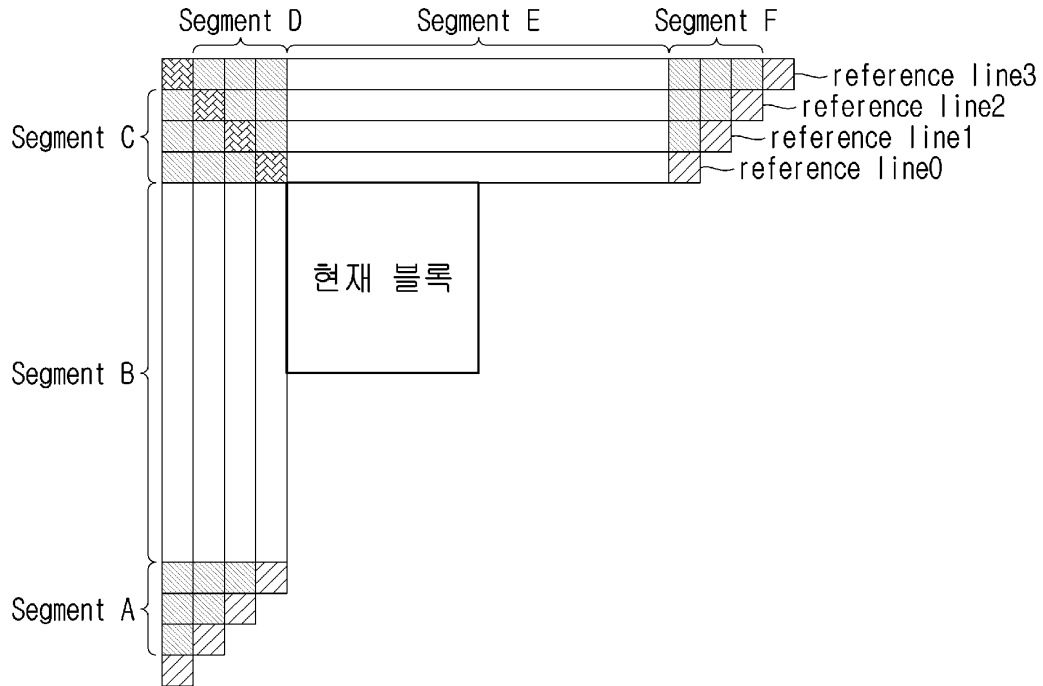
[도 13c]



[도 13d]



[도14]



[도15]

```

coding_unit( x0, y0, cbWidth, cbHeight, treeType ) {
...
    if( sps_mrl_enabled_flag && (( y0 % CtbSizeY ) > 0 ) )
        intra_luma_ref_idx[ x0 ][ y0 ]
    if( sps_ism_enabled_flag && intra_luma_ref_idx[ x0 ][ y0 ] == 0 &&
        ( cbWidth <= MaxTbSizeY && cbHeight <= MaxTbSizeY ) &&
        ( cbWidth * cbHeight > MinTbSizeY * MinTbSizeY ) && !cu_act_enabled_flag )
        intra_subpartitions_mode_flag[ x0 ][ y0 ]
    if( intra_subpartitions_mode_flag[ x0 ][ y0 ] == 1 )
        intra_subpartitions_split_flag[ x0 ][ y0 ]
    if( intra_luma_ref_idx[ x0 ][ y0 ] == 0 )
        intra_luma_mpm_flag[ x0 ][ y0 ]
    if( intra_luma_mpm_flag[ x0 ][ y0 ] ) {
        if( intra_luma_ref_idx[ x0 ][ y0 ] == 0 )
            intra_luma_not_planar_flag[ x0 ][ y0 ]
        if( intra_luma_not_planar_flag[ x0 ][ y0 ] )
            intra_luma_mpm_idx[ x0 ][ y0 ]
    } else
        intra_luma_mpm_remainder[ x0 ][ y0 ]
    }
...
}

```

[16]

When all of the following conditions are true, the position-dependent prediction sample filtering process (PDPC) is invoked with the intra prediction mode `predModelIntra`, the transform block width `nTbW`, the transform block height `nTbH`, the predicted samples `predSamples[x][y]`, with $x = 0..nTbW - 1$, $y = 0..nTbH - 1$, the reference sample width `refW`, the reference sample height `refH`, and the reference samples `p[x][y]`, with $x = -1$, $y = -1..refH - 1$ and $x = 0..refW - 1$, $y = -1$ as inputs, and the output is the modified predicted sample array `predSamples`:

- `nTbW` is greater than or equal to 4 and `nTbH` is greater than or equal to 4 or `cldx` is not equal to 0
- `refldx` is equal to 0 or `cldx` is not equal to 0
- `BdpcmFlag[xTbCmp][yTbCmp][cldx]` is equal to 0
- One of the following conditions is true:
 - `predModelIntra` is equal to `INTRA_PLANAR`
 - `predModelIntra` is equal to `INTRA_DC`
 - `predModelIntra` is less than or equal to `INTRA_ANGULAR18`
 - `predModelIntra` is greater than or equal to `INTRA_ANGULAR50` and less than `INTRA_LT_CCLM`

[17]

When all of the following conditions are true, the position-dependent prediction sample filtering process (PDPC) is invoked with the intra prediction mode `predModelIntra`, the transform block width `nTbW`, the transform block height `nTbH`, the predicted samples `predSamples[x][y]`, with $x = 0..nTbW - 1$, $y = 0..nTbH - 1$, the reference sample width `refW`, the reference sample height `refH`, and the reference samples `p[x][y]`, with $x = -1$, $y = -1..refH - 1$ and $x = 0..refW - 1$, $y = -1$ as inputs, and the output is the modified predicted sample array `predSamples`:

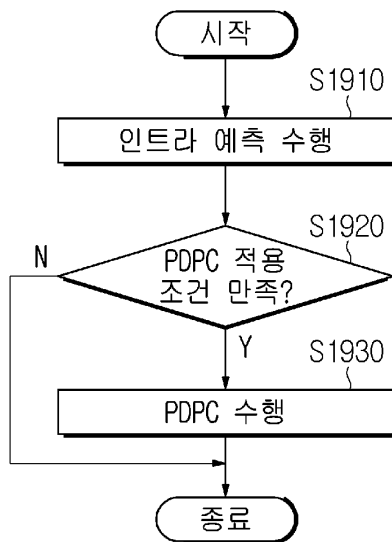
- `nTbW` is greater than or equal to 4 and `nTbH` is greater than or equal to 4
- `refldx` is equal to 0 or `cldx` is not equal to 0
- `BdpcmFlag[xTbCmp][yTbCmp][cldx]` is equal to 0
- One of the following conditions is true:
 - `predModelIntra` is equal to `INTRA_PLANAR`
 - `predModelIntra` is equal to `INTRA_DC`
 - `predModelIntra` is less than or equal to `INTRA_ANGULAR18`
 - `predModelIntra` is greater than or equal to `INTRA_ANGULAR50` and less than `INTRA_LT_CCLM`

[도18]

When all of the following conditions are true, the position-dependent prediction sample filtering process (PDPC) is invoked with the intra prediction mode `predModelIntra`, the transform block width `nTbW`, the transform block height `nTbH`, the predicted samples `predSamples[x][y]`, with $x = 0..nTbW - 1$, $y = 0..nTbH - 1$, the reference sample width `refW`, the reference sample height `refH`, and the reference samples `p[x][y]`, with $x = -1$, $y = -1..refH - 1$ and $x = 0..refW - 1$, $y = -1$ as inputs, and the output is the modified predicted sample array `predSamples`:

- `nTbW` is greater than or equal to 4 and `nTbH` is greater than or equal to 4
- `refIdx` is equal to 0
- `BdpcmFlag[xTbCmp][yTbCmp][cIdx]` is equal to 0
- One of the following conditions is true:
 - `predModelIntra` is equal to `INTRA_PLANAR`
 - `predModelIntra` is equal to `INTRA_DC`
 - `predModelIntra` is less than or equal to `INTRA_ANGULAR18`
 - `predModelIntra` is greater than or equal to `INTRA_ANGULAR50` and less than `INTRA_LT_CCLM`

[도19]



[도20]

