

## 6\_7 ASPHALT BASE vs. ABC PAVEMENT DESIGN

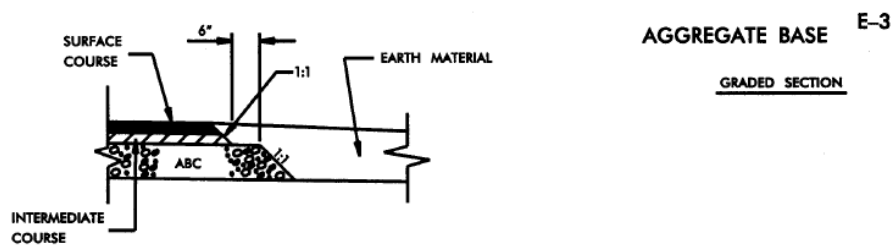
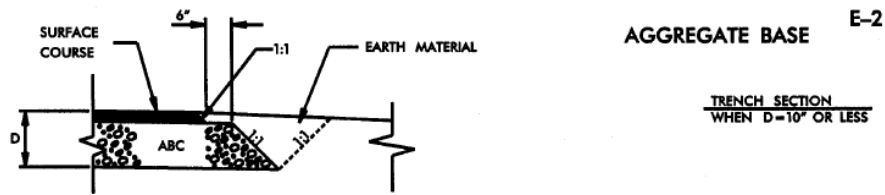
### Question:

How do I change the shelf width if my pavement design calls for an asphalt base?

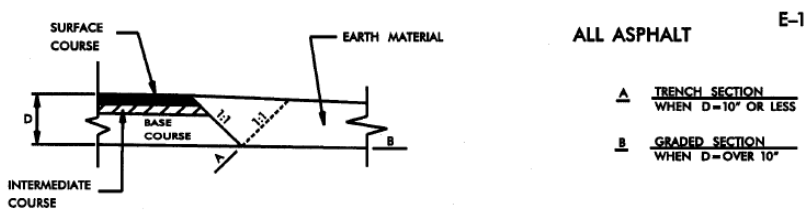
### Answer:

Corridor Modeling templates base its pavement design using the Roadway Design Manual. Part 1, Chpt. 1-3E "[Pavement Edge Construction](#)" and Chpt. 1-4F "Paved Shoulders with Flexible Pavement".

By default, ABC with a 6" shelf is assumed.

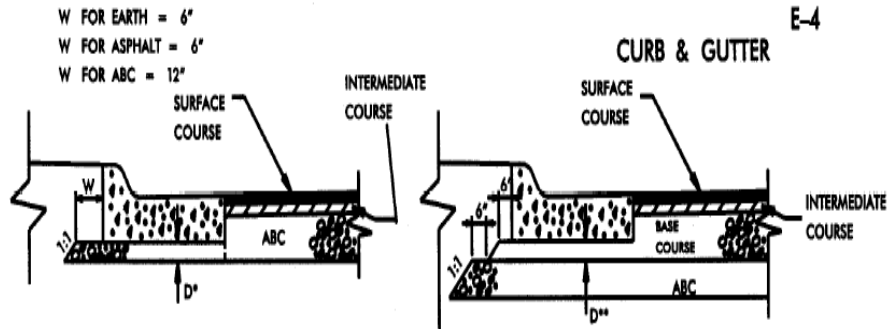


If you have an asphalt base pavement design (B25.0B, B25.0C, etc.) then the pavement edge should have a 1:1 slope without a shelf width.



Use the Parametric Constraint label "SH\_C3 Shelf Width Out" to change the shelf width. The default is 0.5' (6") for ABC. Change this value to **0.01'** for asphalt base. The program needs this minute distance to form an angle between two points.

Note, the templates have built-in controls for 3 and 4-pavement layer designs for C&G sections. Along with the ability to change the shelf width for just ABC or both ABC and asphalt base in the pavement design, the depth underneath the C&G can be zeroed out (C&G sits on subgrade/earth when  $D < 3"$  ABC or  $D < 2.5"$  Asphalt Base).



\* WHEN D IS LESS THAN 3" THE CURB & GUTTER WILL BE PLACED ON SUBGRADE.  
\*\* ASPHALT BASE - HB IS TO BE USED UNDER CURB & GUTTER WHEN D=2 1/2" OR MORE.

These additional parametric constraints are available for these type of templates:

- CG\_C1 Depth
- CG\_C1 Shelf Width
- CG\_C2 Depth
- CG\_C2 Shelf Width

Please note the Plans Review Section is checking for this to make sure our automated pavement quantities are computed accurately