

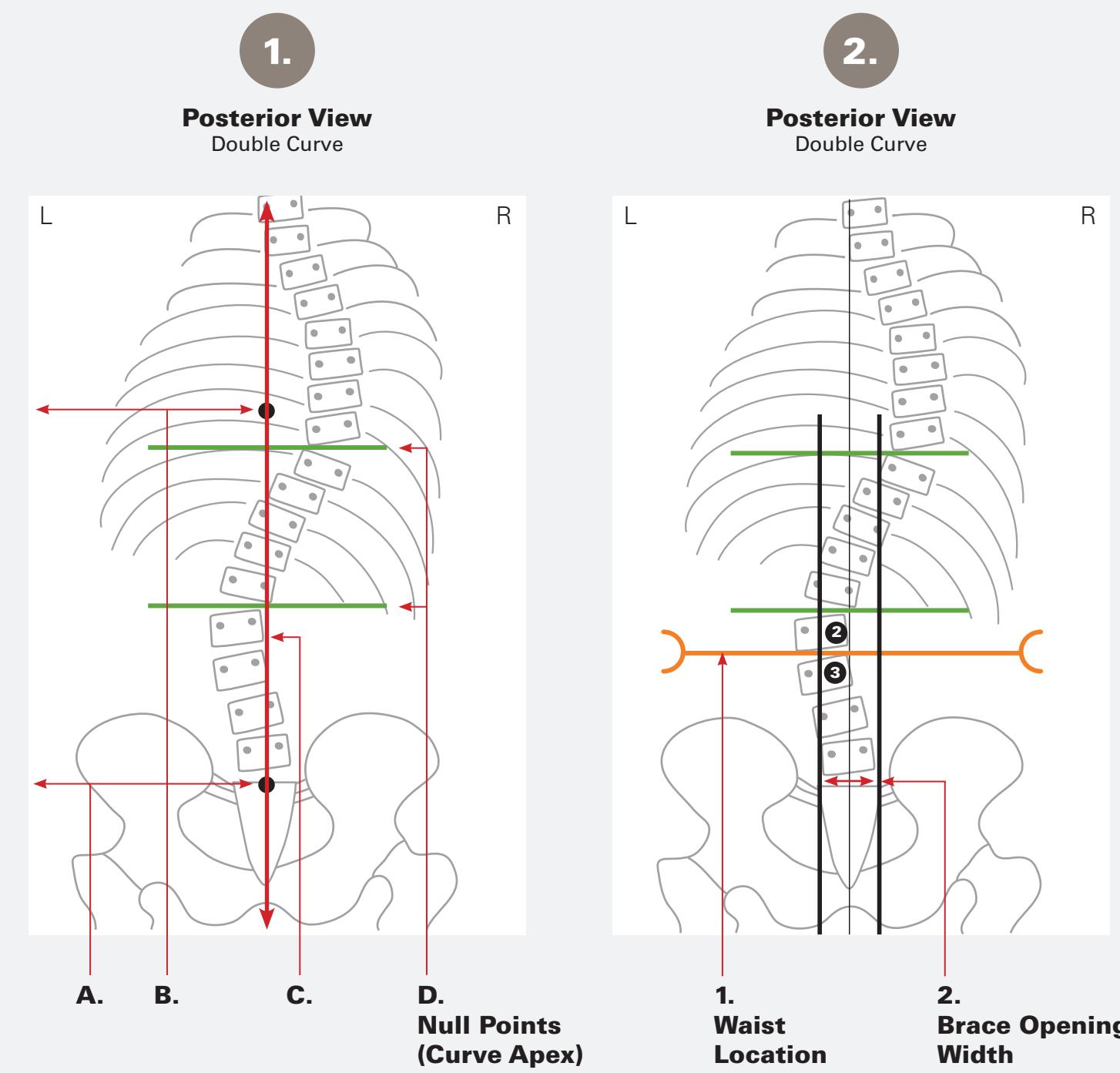
## Boston (Style) Scoliosis Orthosis Blueprint Steps

Follow steps 1 through 4 of the blueprint diagrams

## Lumbar Curve Blueprint

**SRS Definition: Lumbar Scoliosis**  
A scoliosis that has its apex at a point between the L1-L2 disc space through the L4-L5 disc space.

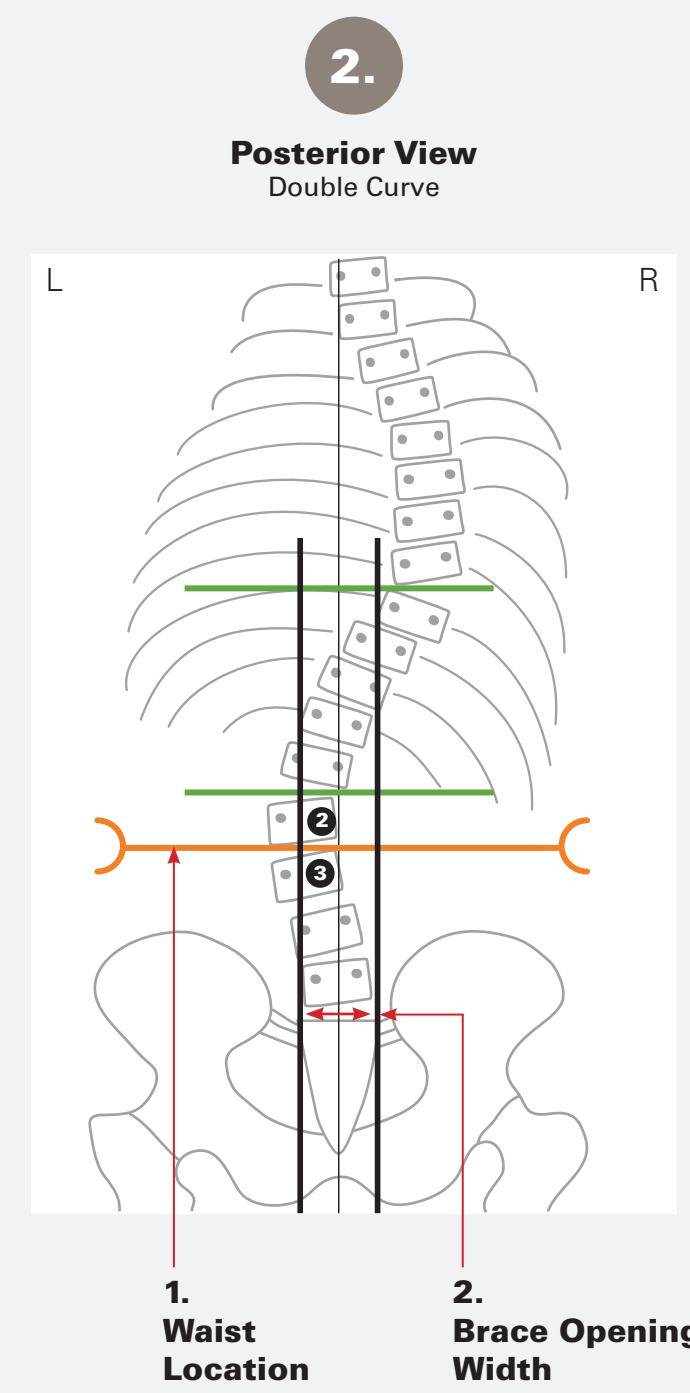
## Lumbar Curve Design



### 1. Determine Center Sacral Line (CSL)

- A. Measure from lateral edge of x-ray to center of S1
- B. Transfer same measurement superiorly from lateral edge of x-ray
- C. Connect the marks
- 2. Identify Null Points (Curve Apex)**
- D. Null point is a 90° angle to the center sacral line where the vertebral bodies change direction

These chart illustrations are not to scale and should only be used as a reference.

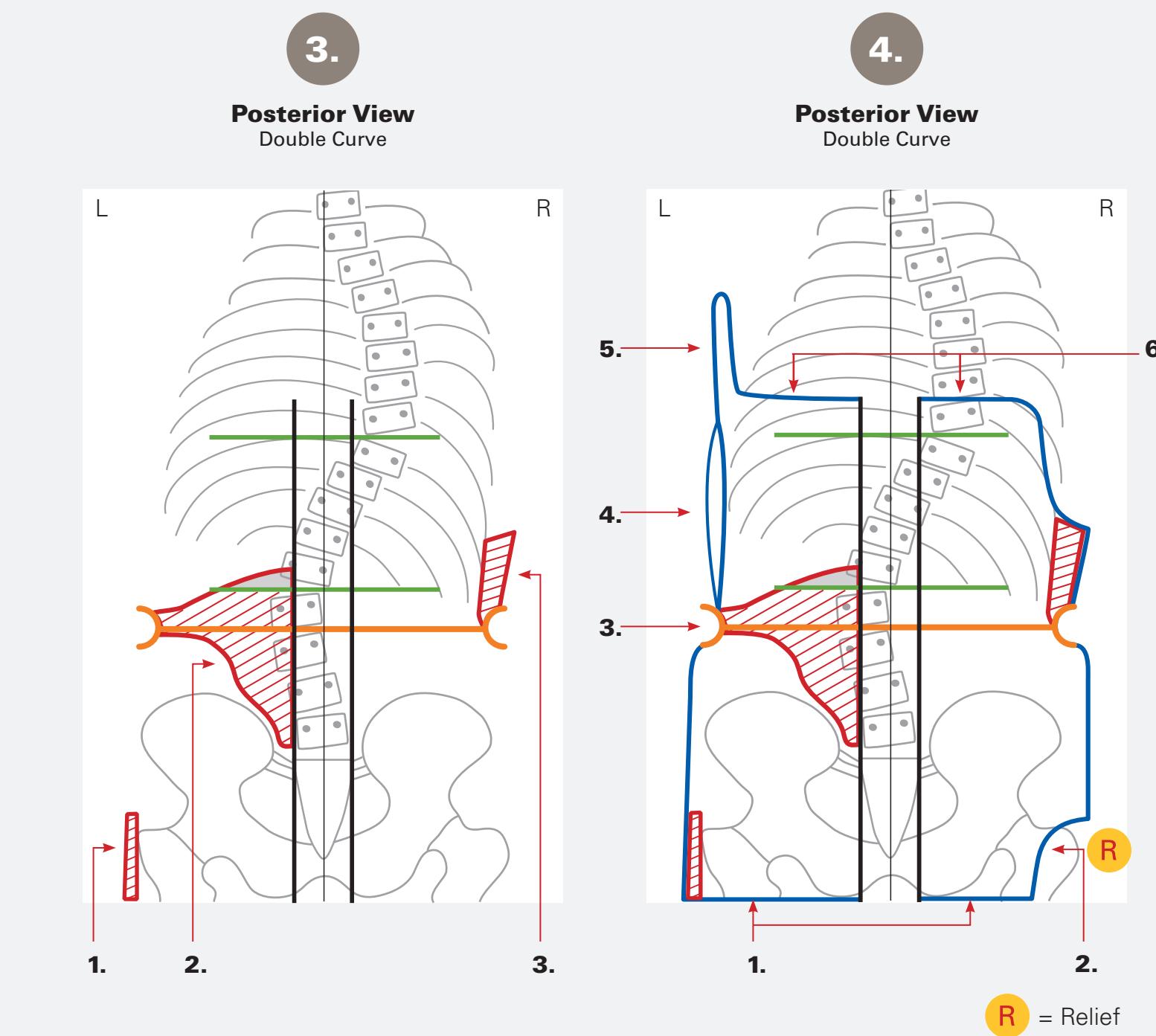


### 1. Identify Waist Location

Between L2 – L3 (usually)

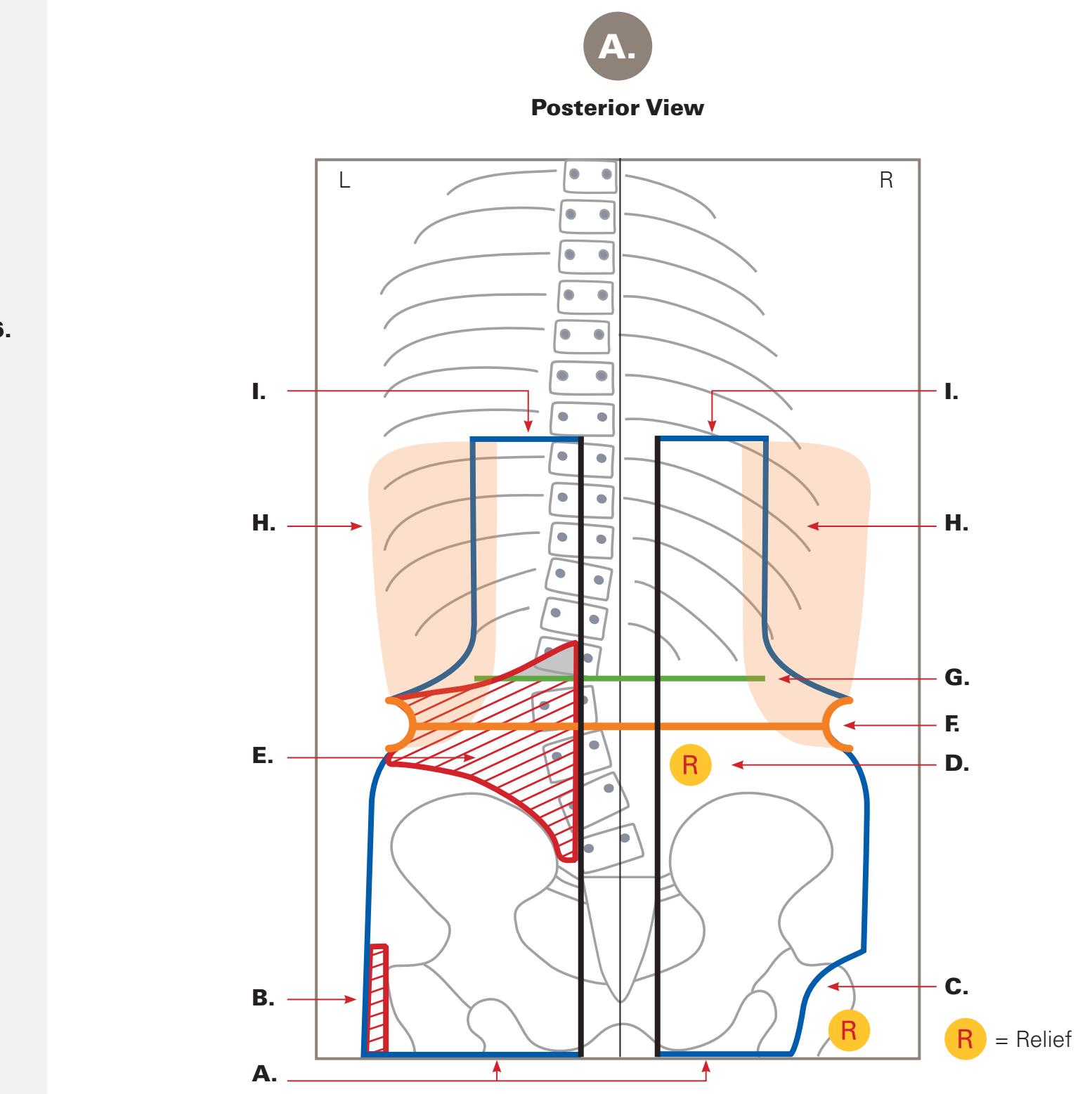
### 2. Establish Brace Opening Width

Width of the widest vertebral body (L5)



### Draw:

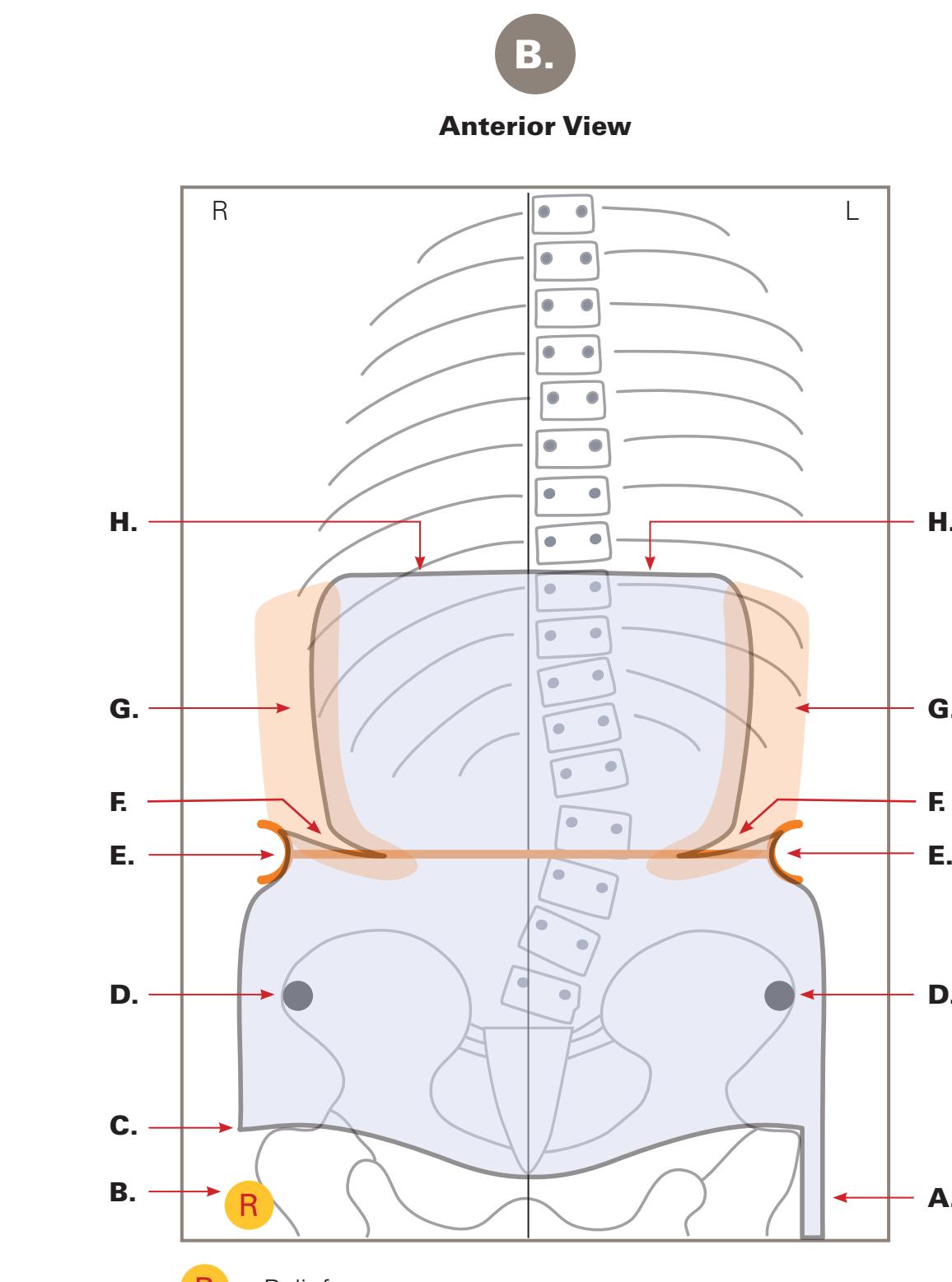
1. Trochanter Pad  
Placed on side L5 is tilted towards (usually)
2. Lumbar Pad  
Full thickness to null point (skived above)  
Define width of pad from waist edge to edge of brace opening. Define height of pad from L5 to vertebral body above apex or null point
3. Thoracic Pad  
Thoracic extension to rib of null point
4. Thoracic Window  
Axilla extension
5. Axilla Extension  
Posterior superior trim 1/2" below inferior angle of Scapula



### Lumbar Curve Blueprint

(Apex, between L1 – L2 disc space)

- A. Posterior inferior trim 1"-2" off chair with patient seated
- B. Trochanter pad placed on side L5 is tilted toward
- C. Relief opposite of Trochanter
- D. Relief opposite Lumbar pad on right side of opening
- E. Lumbar pad – Full thickness to null point (skived above)
- F. Waist indentations
- G. Elastic gusset bilateral
- H. Posterior superior trim – 1/2" below inferior angle of Scapula



### Lumbar Curve Design

(Apex, between L1 – L2 disc space)

- A. Trochanter extension
- B. Relief opposite of Trochanter
- C. Anterior inferior trim to allow for sitting, cover ASIS
- D. ASIS
- E. Waist indentations
- F. Channel relief
- G. Elastic gusset bilateral
- H. Anterior superior trim – At Xyphoid level

## Thoracolumbar Curve Blueprint

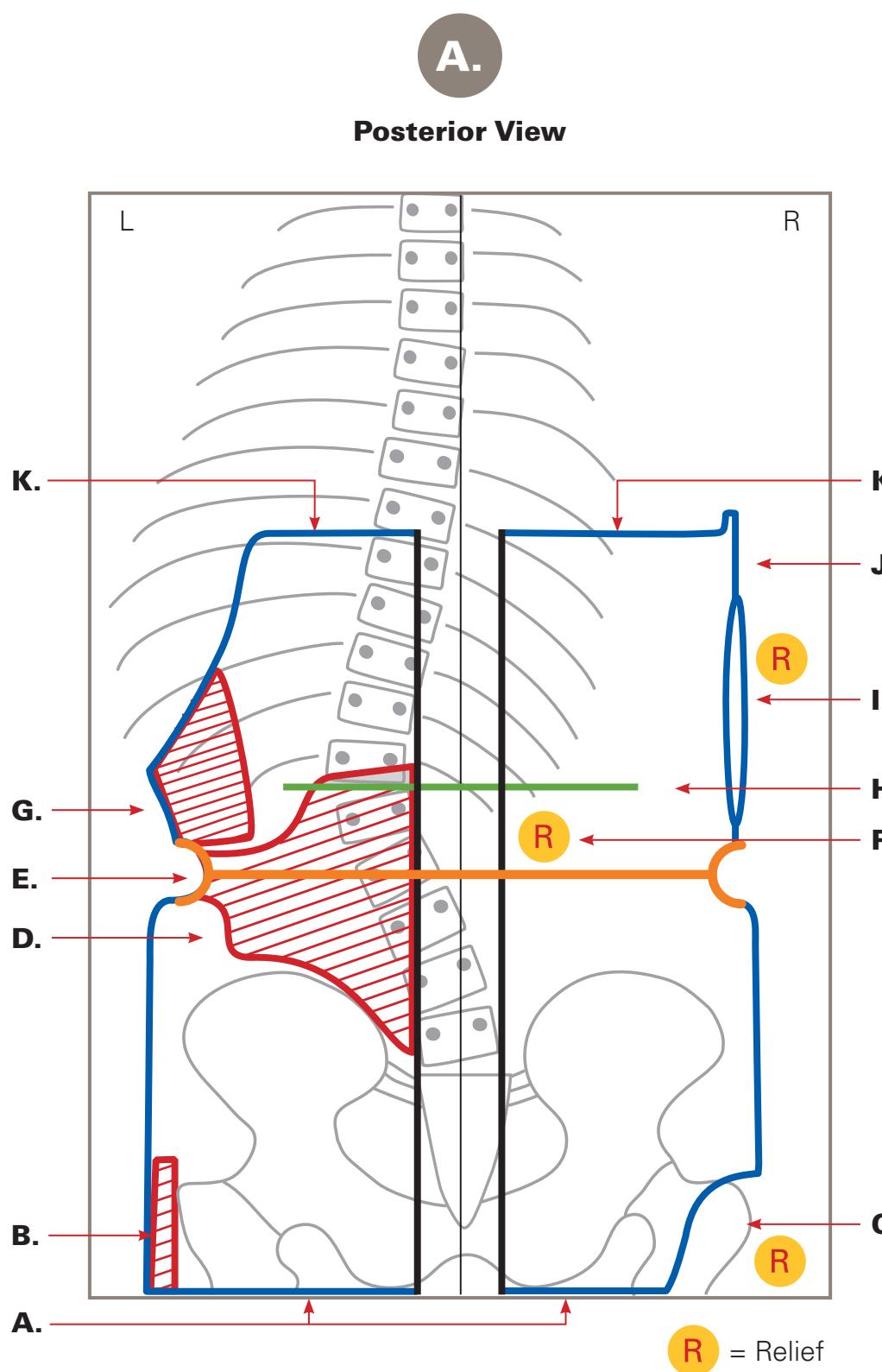
**SRS Definition: Thoracolumbar Scoliosis**  
A scoliosis with its apex at T12, L1, or the intervening T12-L1 disc space.

## Thoracolumbar Curve Design

## Double Curve Blueprint

**SRS Definition: Double Structural Scoliosis**  
A spine with two structural scolioses, in this example Lumbar and Thoracic Scoliosis.

## Double Curve Design

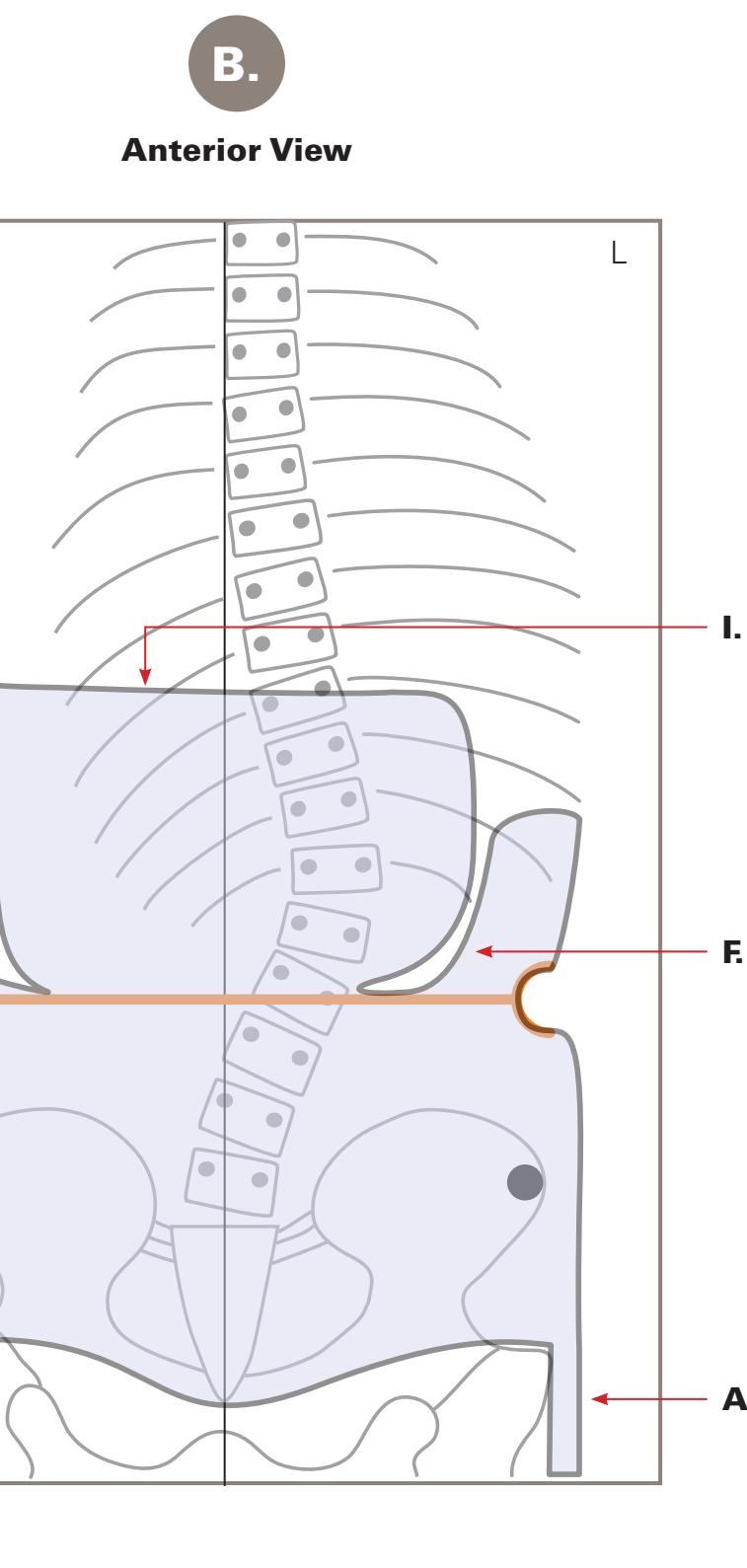


### Thoracolumbar Curve Blueprint

(Apex, between L1 or T12 disc space)

- A. Posterior inferior trim 1"-2" off chair with patient seated
- B. Trochanter pad
- C. Relief opposite of Trochanter
- D. Lumbar pad – Full thickness to null point (skived above)
- E. Waist indentations
- F. Relief opposite Lumbar pad on right side of opening
- G. Thoracic pad or extension without pad
- H. Null Point
- I. Thoracic window
- J. Axilla extension
- K. Posterior superior trim – 1/2" below inferior angle of Scapula

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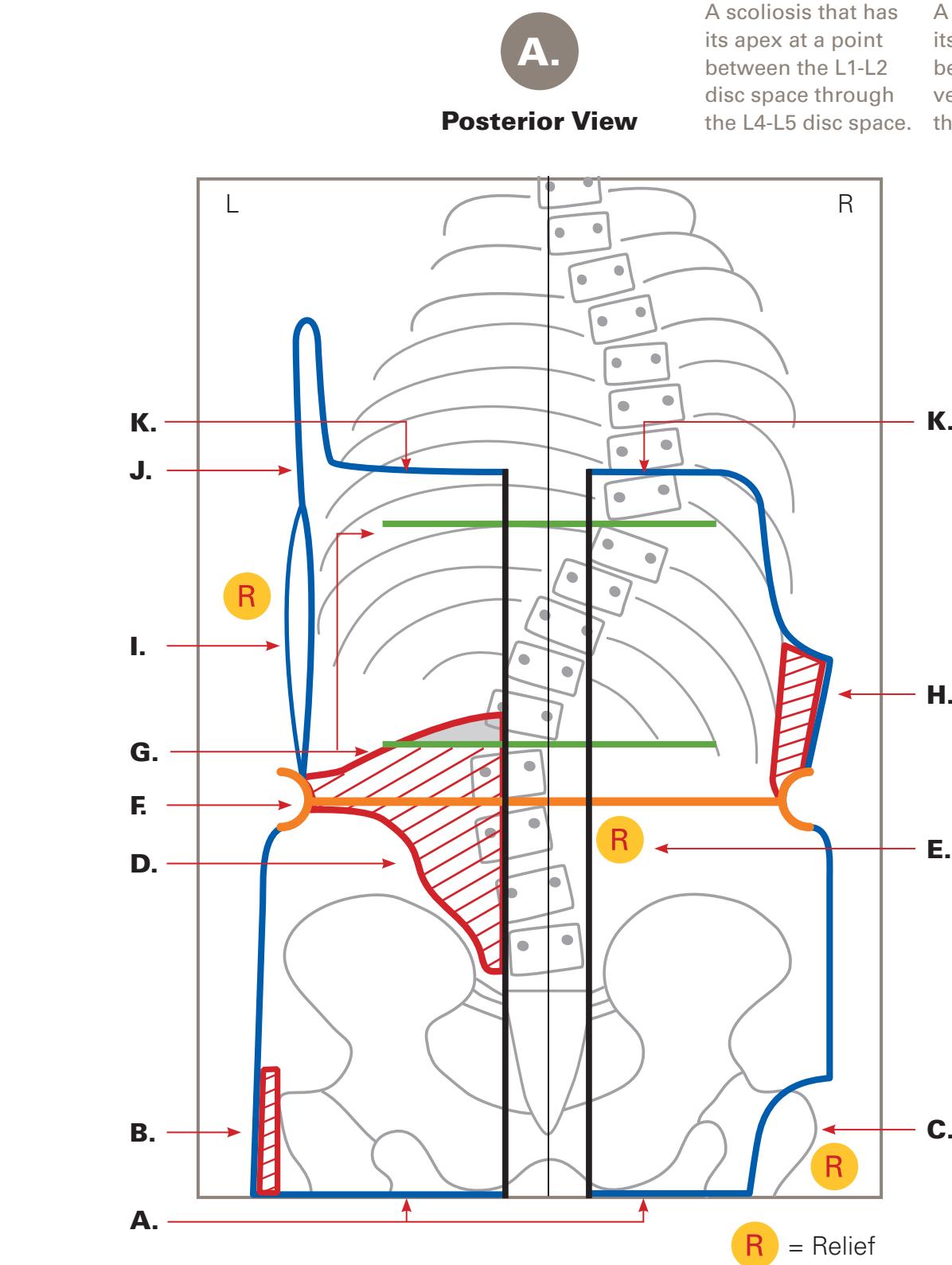


### Thoracolumbar Curve Design

(Apex, between L1 or T12 disc space)

- A. Trochanter extension
- B. Relief opposite of Trochanter
- C. Anterior inferior trim to allow for sitting, cover ASIS
- D. ASIS
- E. Waist indentations
- F. Channel relief
- G. Thoracic window
- H. Axilla extension
- I. Anterior superior trim – At Xyphoid level

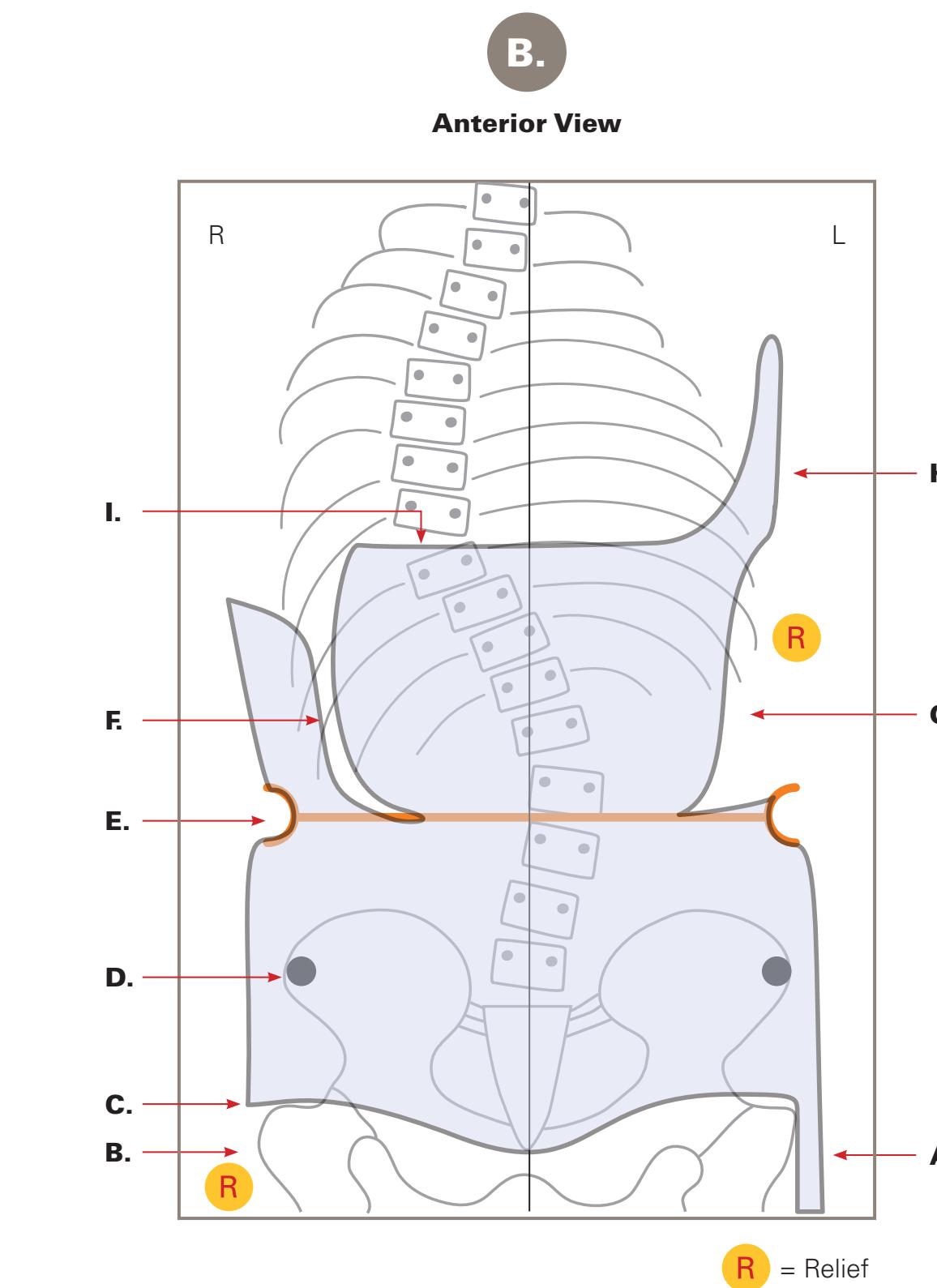
These chart illustrations are not to scale and should only be used as a reference.



### Double Curve Blueprint

(Lumbar Apex, between L1 – L2 disc space, Thoracic Apex, between T8 – T9 disc space)

- A. Posterior inferior trim 1"-2" off chair with patient seated
- B. Trochanter pad
- C. Relief opposite of Trochanter
- D. Lumbar pad – Full thickness to null point (skived above)
- E. Relief opposite Lumbar pad on right side of opening
- F. Waist indentations
- G. Null Points
- H. Thoracic pad
- I. Thoracic window
- J. Axilla extension
- K. Posterior superior trim – 1/2" below inferior angle of Scapula



### Double Curve Design

(Lumbar Apex, between L1 – L2 disc space, Thoracic Apex, between T8 – T9 disc space)

- A. Trochanter extension
- B. Relief opposite of Trochanter
- C. Anterior inferior trim to allow for sitting, cover ASIS
- D. ASIS
- E. Waist indentations
- F. Channel relief
- G. Thoracic window
- H. Axilla extension
- I. Anterior superior trim – At Xyphoid level