

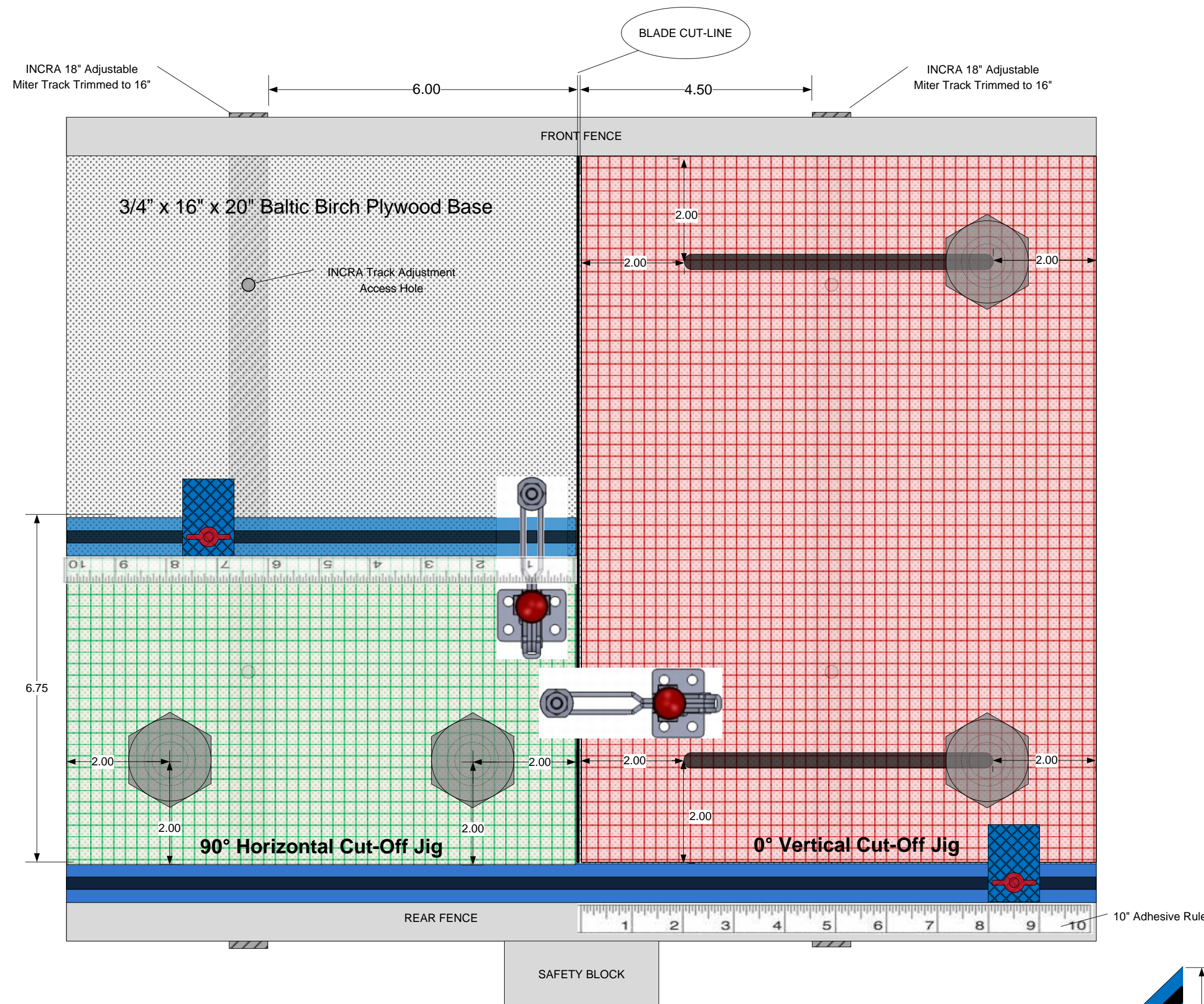
SALISBURY SLED (The Ultimate Pen Segmenting Sled)

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- Preliminary Design – Feedback welcome - email: gdis46@gmail.com

Scale: 1/2 : 1
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This is a preliminary design for what I call the Salisbury Sled, the ultimate pen segmenting sled. It will allow for vertical cuts for trimming blanks, for 90° horizontal cuts for cutting blanks to the correct size for turning, and for 30°, 45°, and 60° angle cuts for segmenting. Jigs can be made for any angle desired.

The basic sled is a 16" x 20" x 1/2" Baltic birch plywood base. The front fence is made from a piece of 3" x 20" x 3/4" Baltic birch. The rear fence is made from two pieces the same size laminated together. Use the William Ng Five- Cut method for squaring the rear fence to the sled.

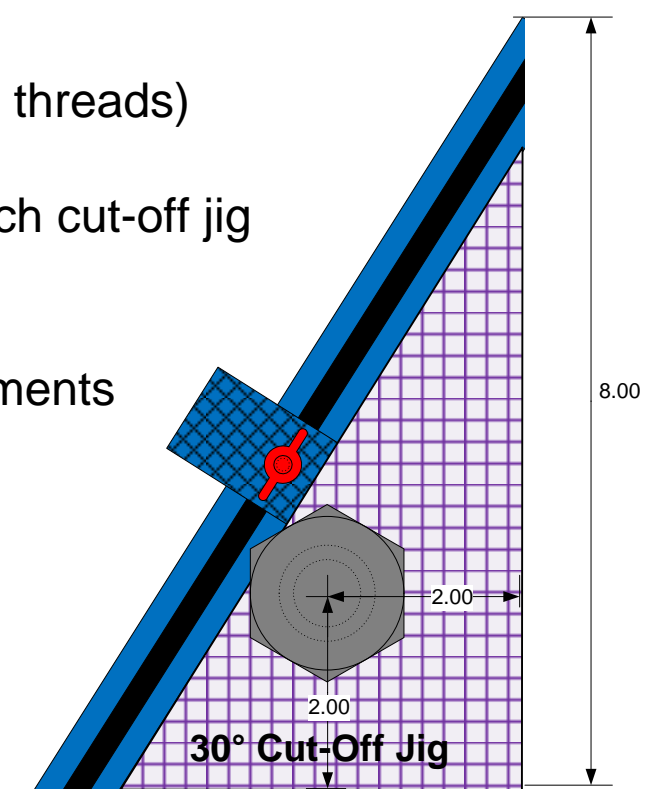
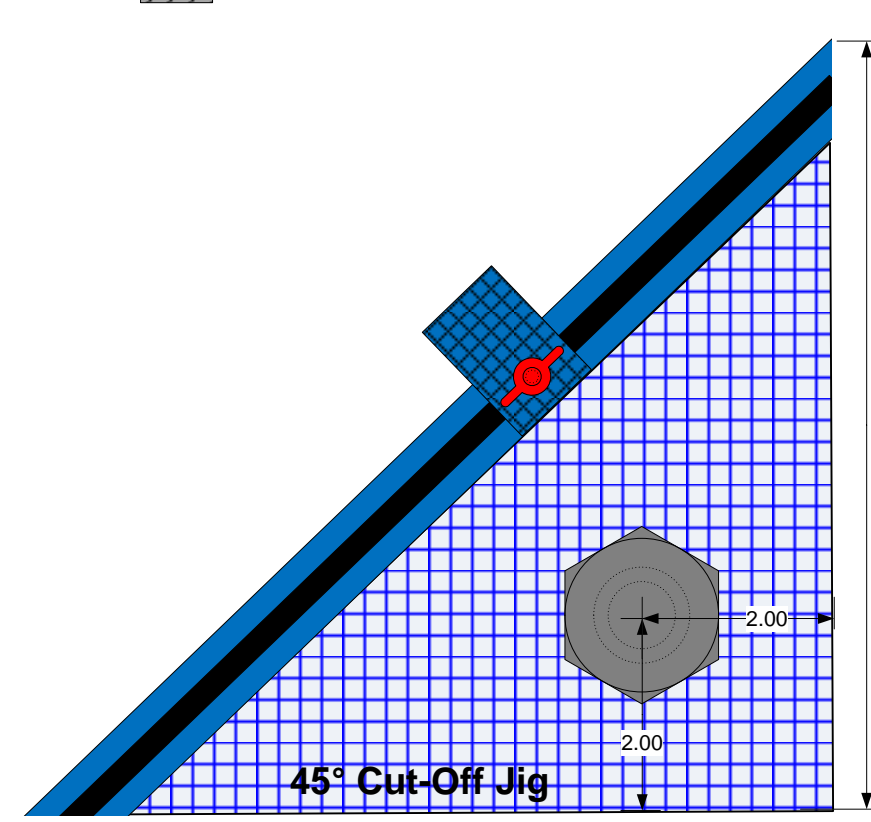
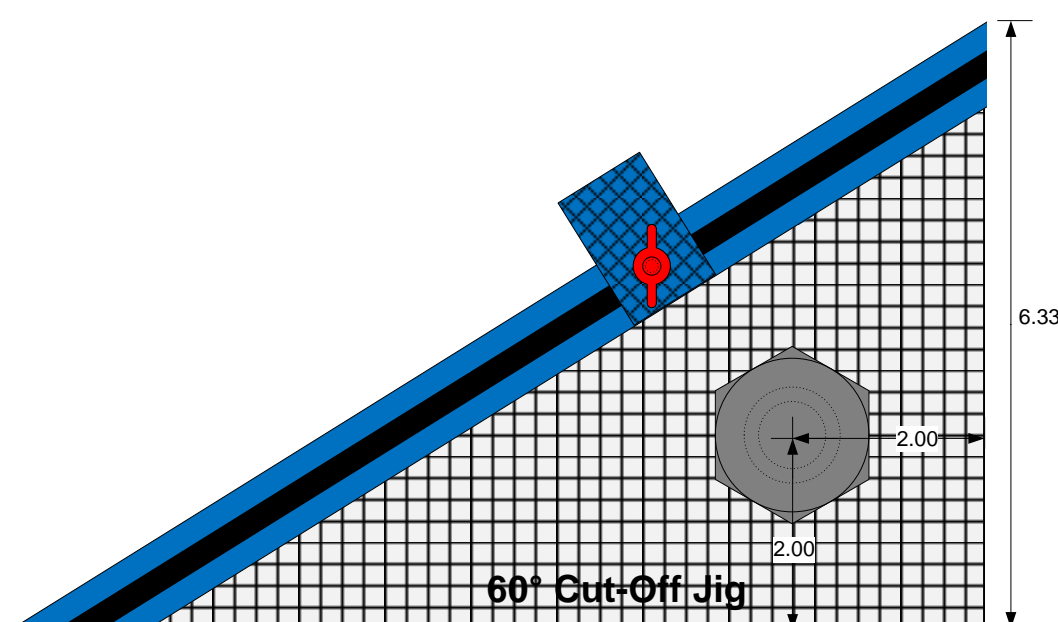
Each specialized jig is held in place by two indexing pins into the base sled. They are locked in place with hold-down knobs that screw into the T-nuts in the base. Each jig uses horizontal toggle clamps hold the material to be cut with for safety and stop blocks for insured accuracy and repeatability.

Specifications:

- Base: 16" x 20" x 3/4" Baltic birch plywood
- Front Fence: 3" x 20" x 3/4" Baltic birch plywood
- Back Fence: 2 - 3" x 20" x 3/4" Baltic birch plywood laminated
- 0° Vertical Cut-Off Jig: 10" x 13-3/4" x 3/4" Baltic birch plywood
- 90° Horizontal Cut-Off Jig: 3/4" Baltic birch plywood
- 60° Segmenting Cut-Off Jig: 3/4" Baltic birch plywood
- 45° Segmenting Cut-Off Jig: 3/4" Baltic birch plywood
- 30° Segmenting Cut-Off Jig: 3/4" Baltic birch plywood

Hardware:

- 48" Rockler T-Track
- 4 - Hold down knobs (1/4" x 20 screw threads)
- 4 - T-Nuts (1/4" x 20 screw threads)
- 5 - Horizontal Toggle Clamps for each cut-off jig
- 2 - Incra 3/8" x 3/4" x 18" rails
- 4 - Stop blocks with locking nuts
- 5 - Starrett flat measuring tape segments
- 8 - 1/4" x 1-1/4" brass indexing pins



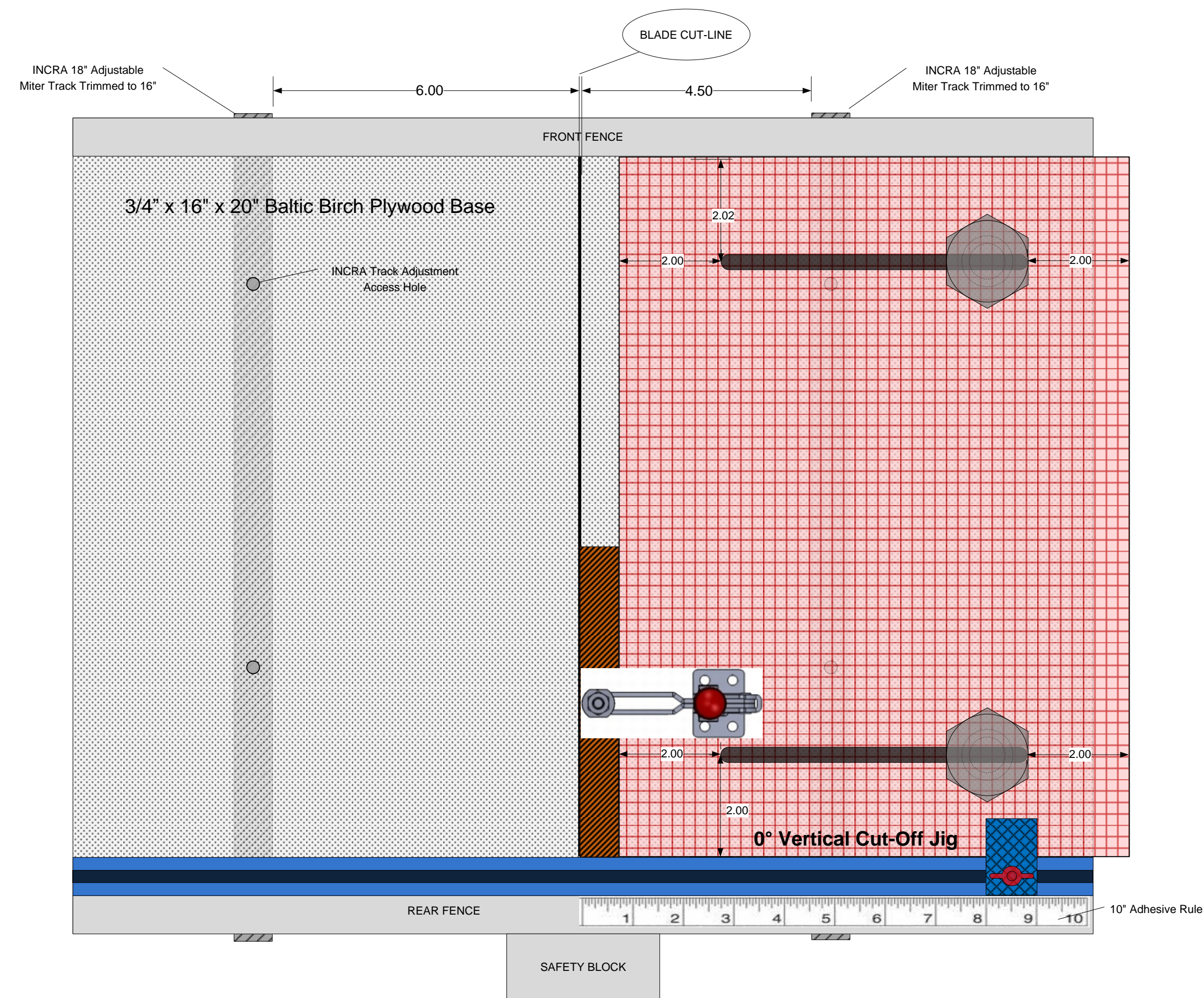
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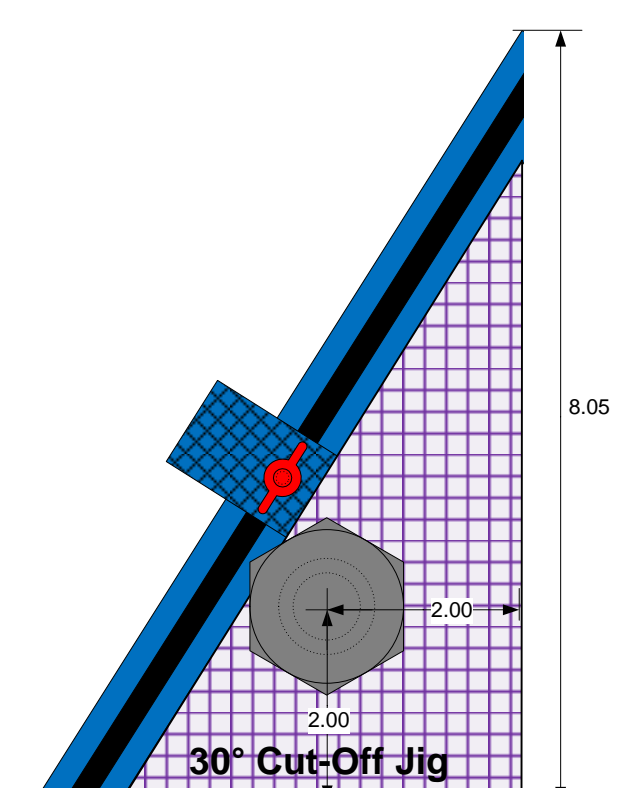
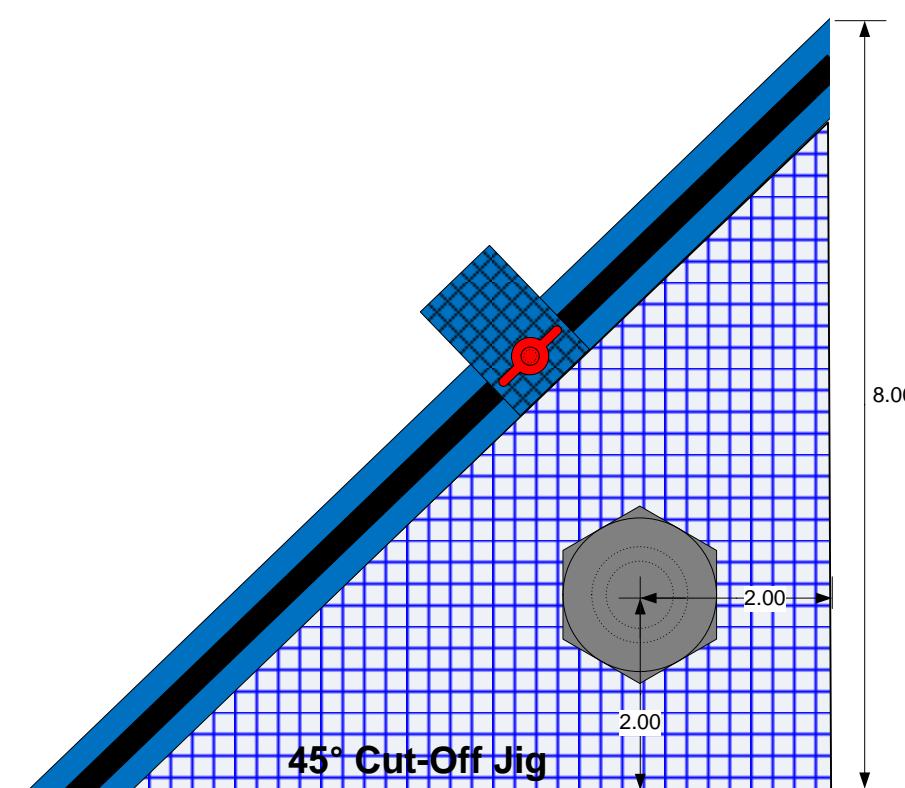
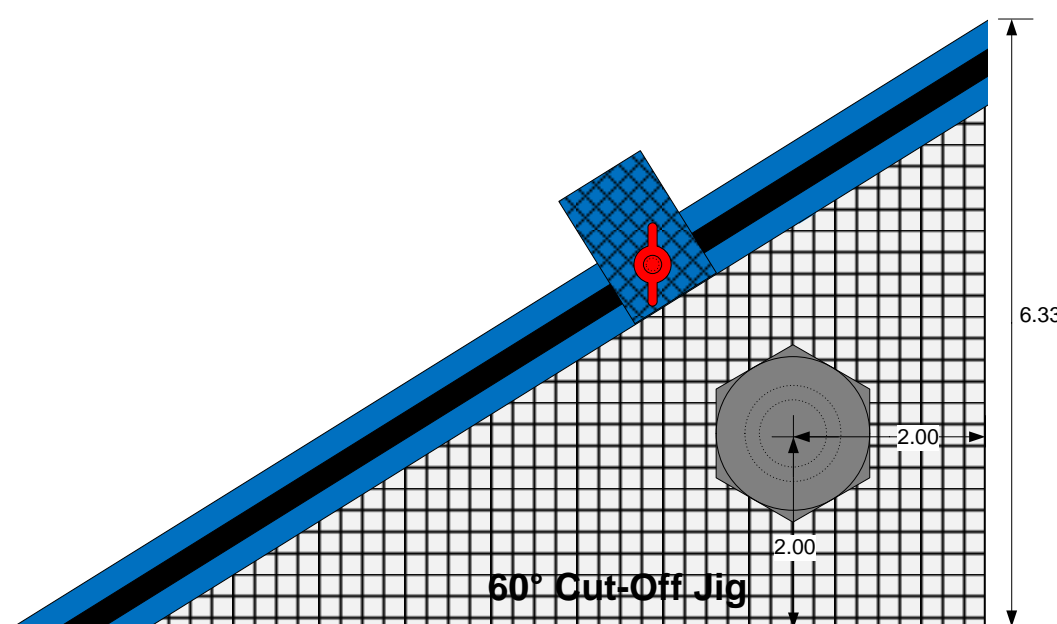
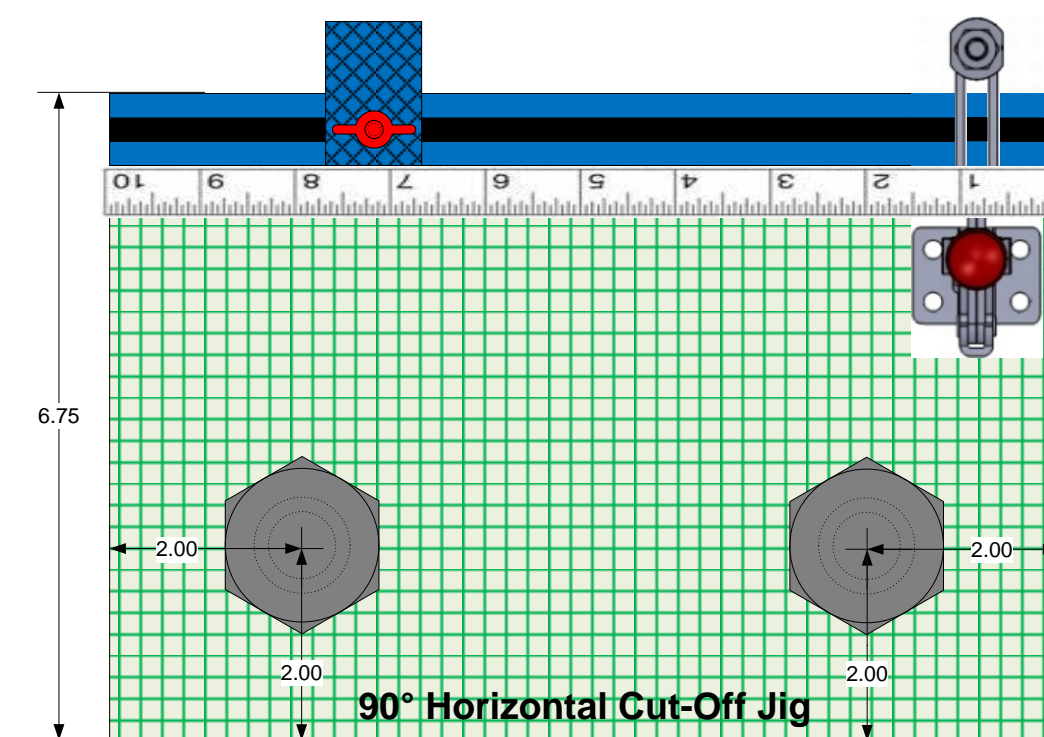
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This view shows how a blank is trimmed to width using the 0° Vertical Cut-off Jig.



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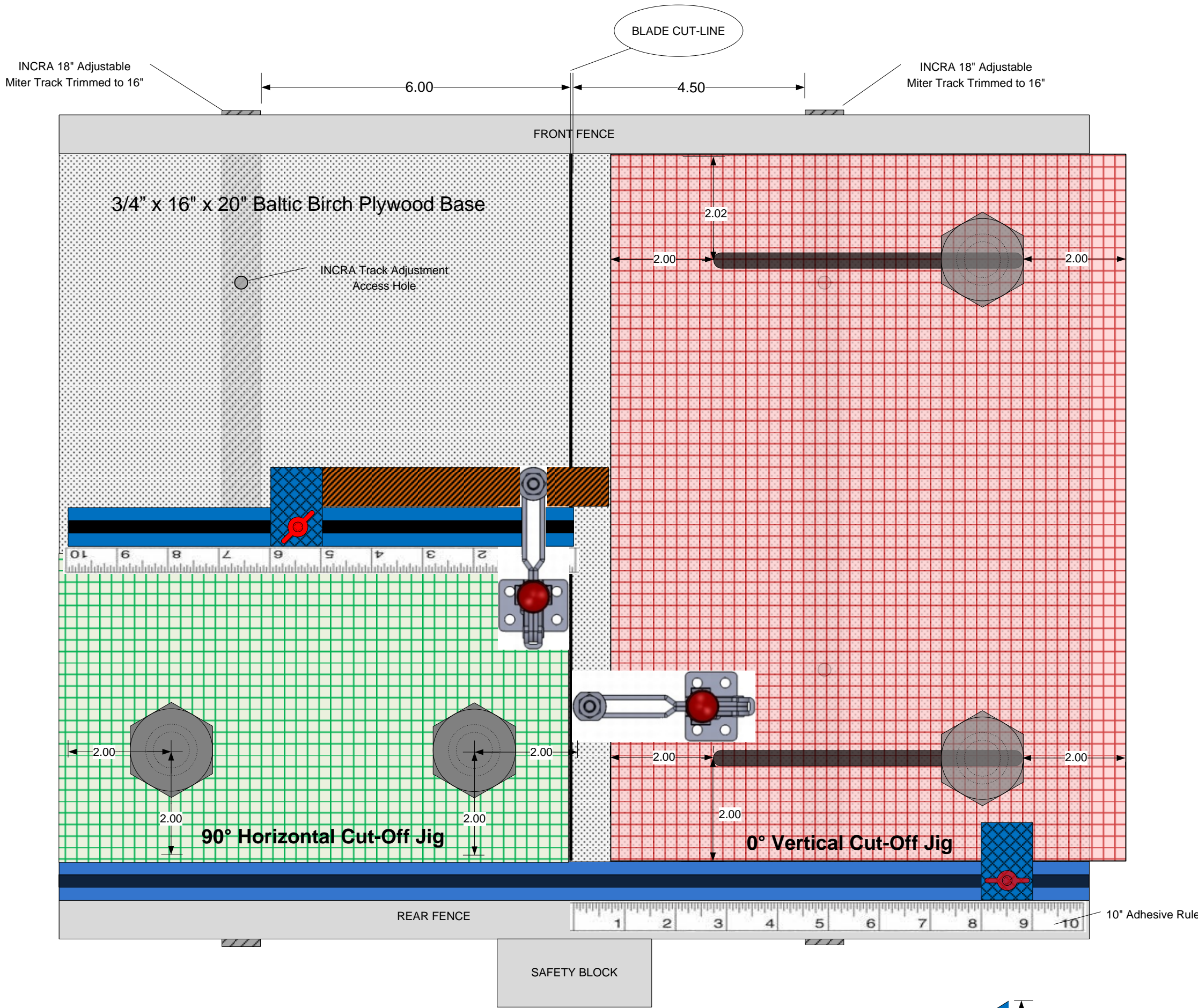
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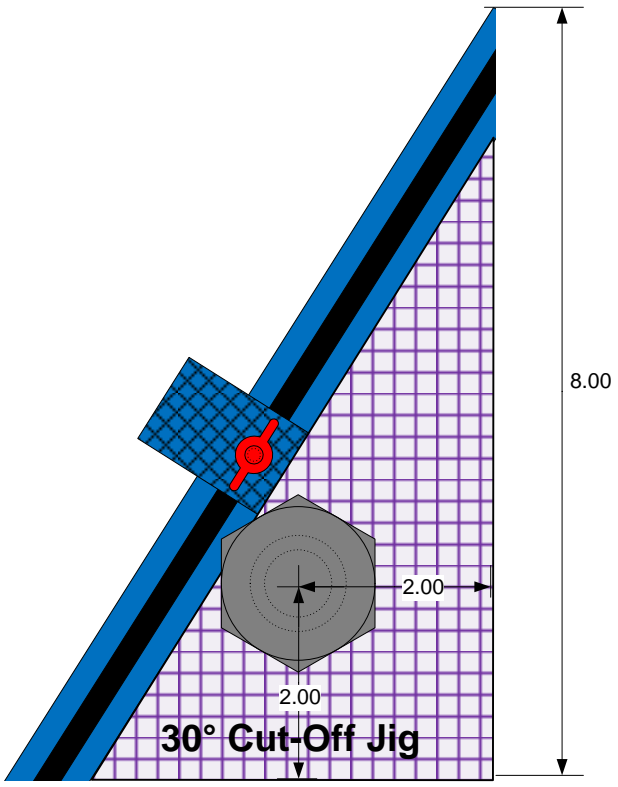
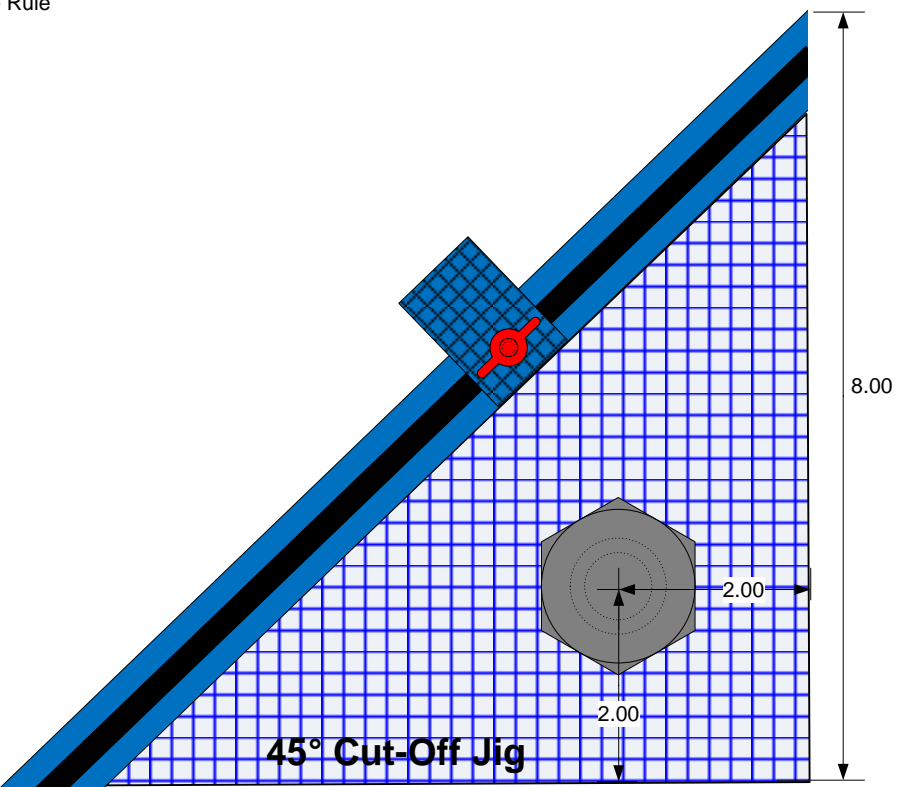
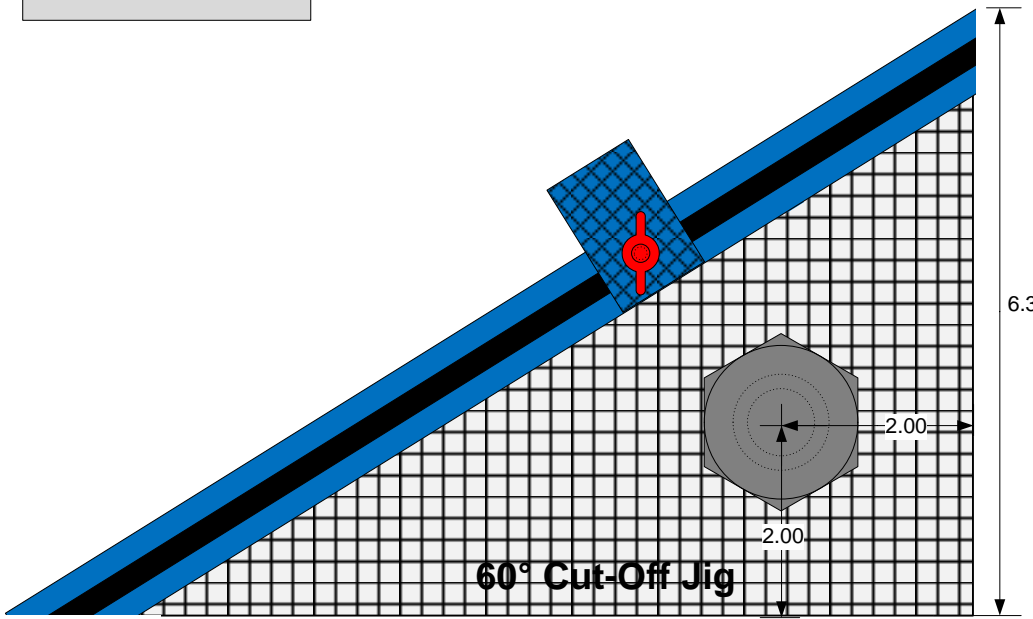
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This view shows how a blank is trimmed to 5" length using the 90° Horizontal Cut-off Jig.



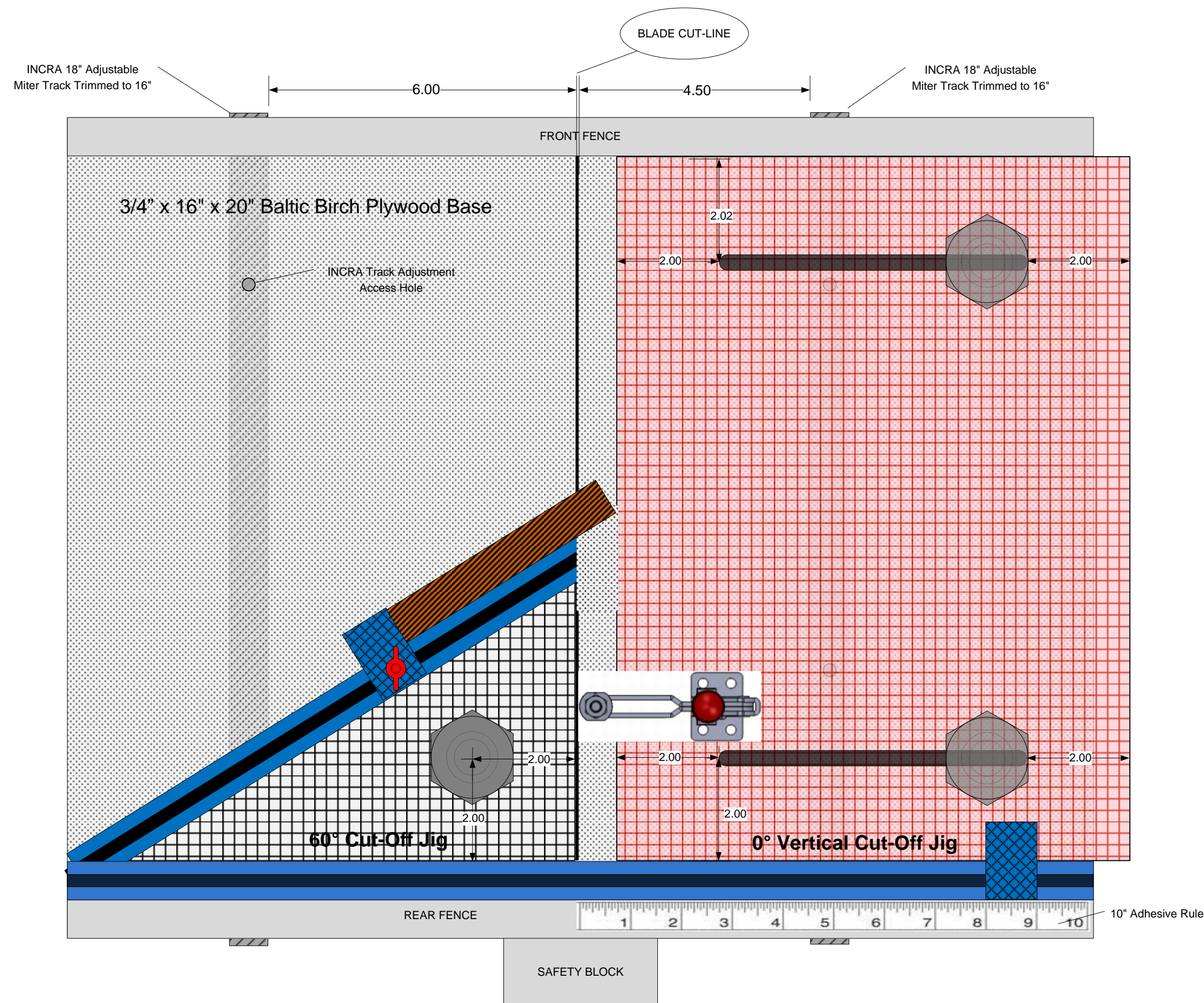
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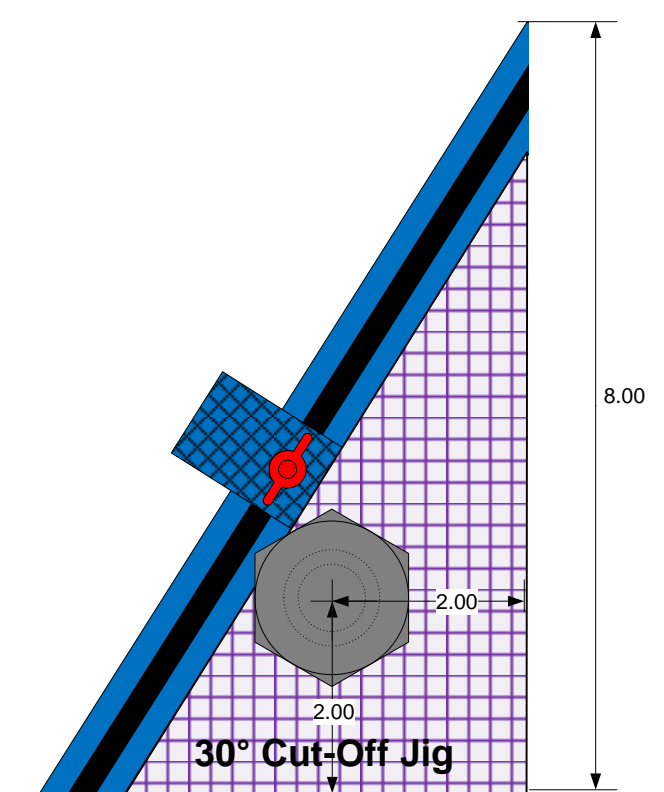
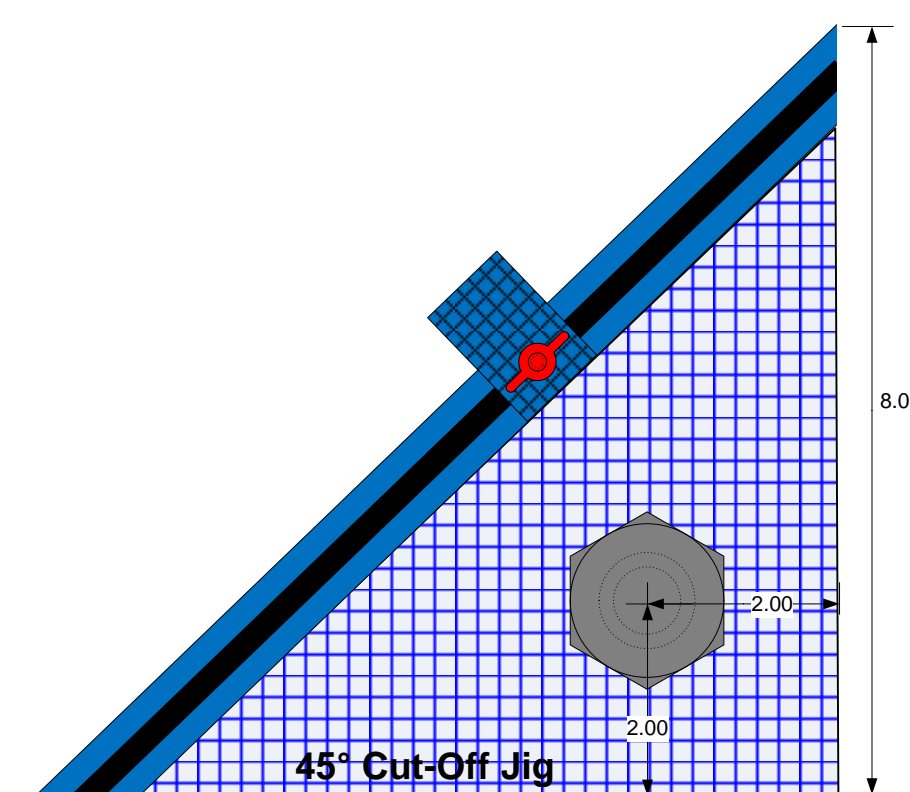
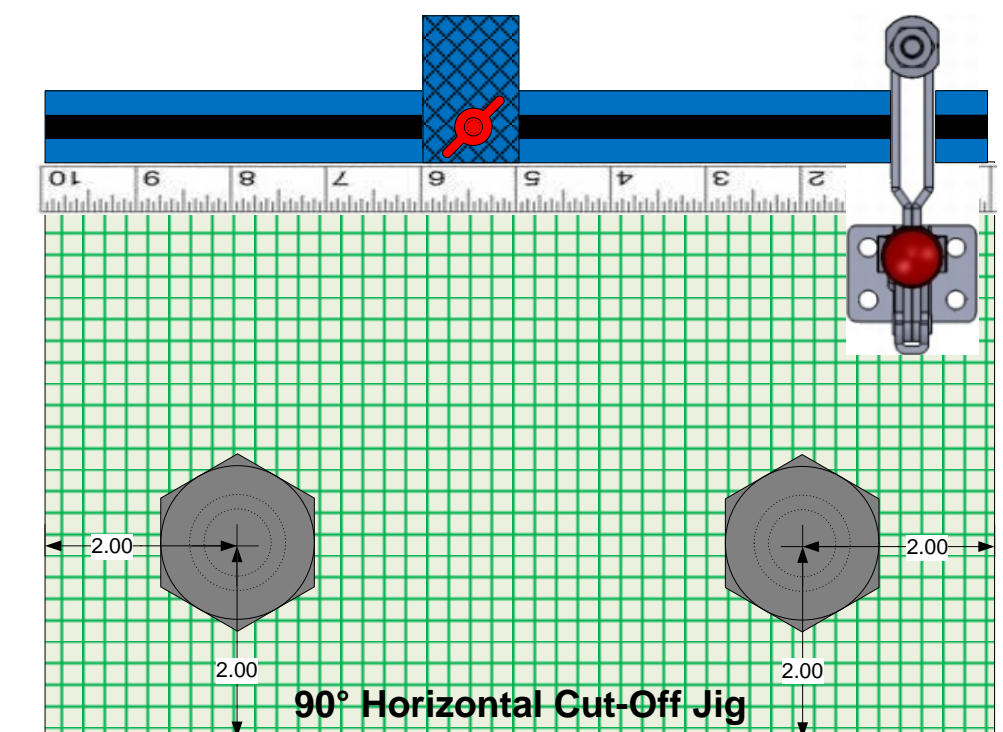
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This view shows how a blank is trimmed to a 60° angle using the 60° Cut-off Jig.



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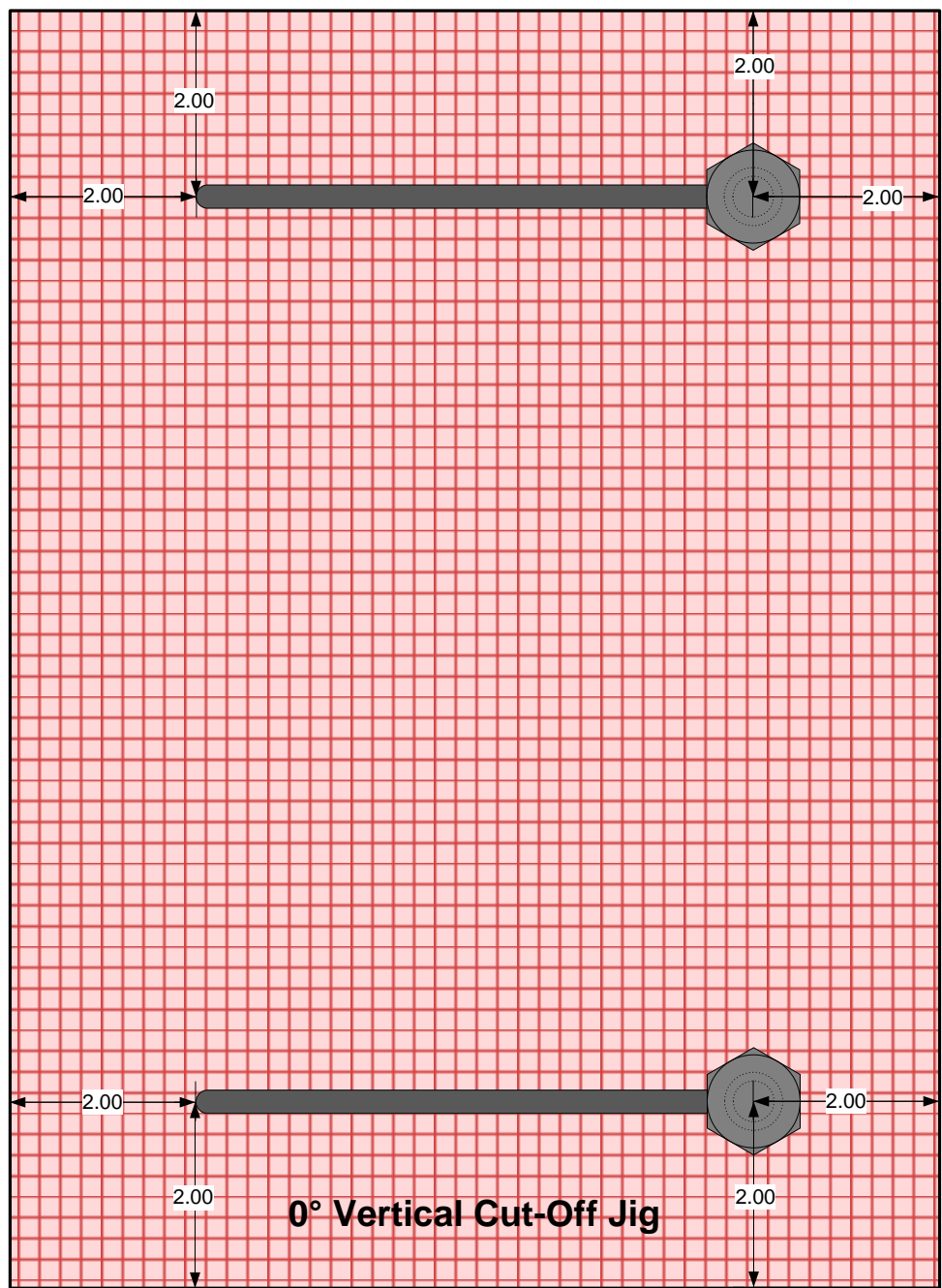
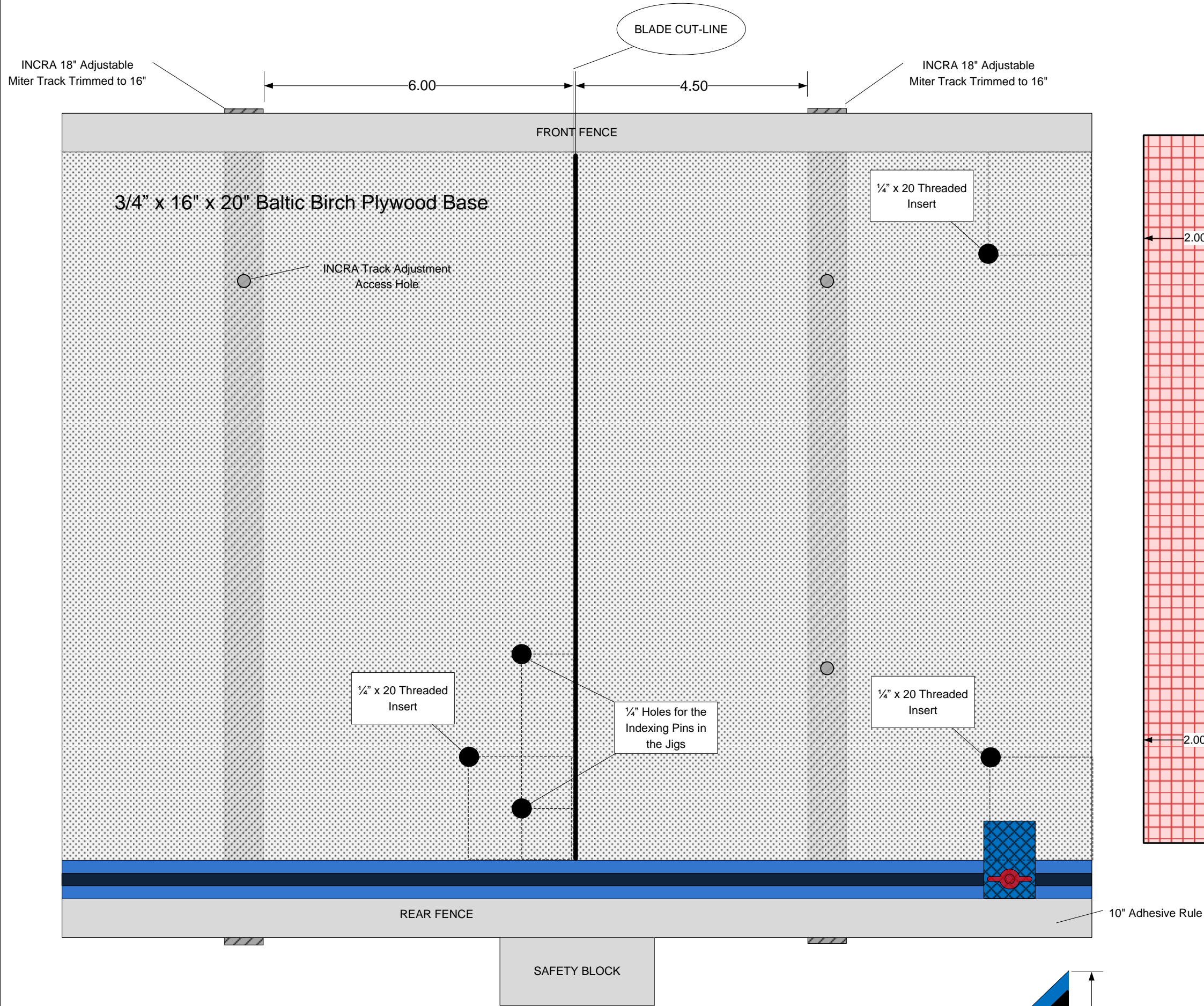
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DIMENSIONS

Sled Base:

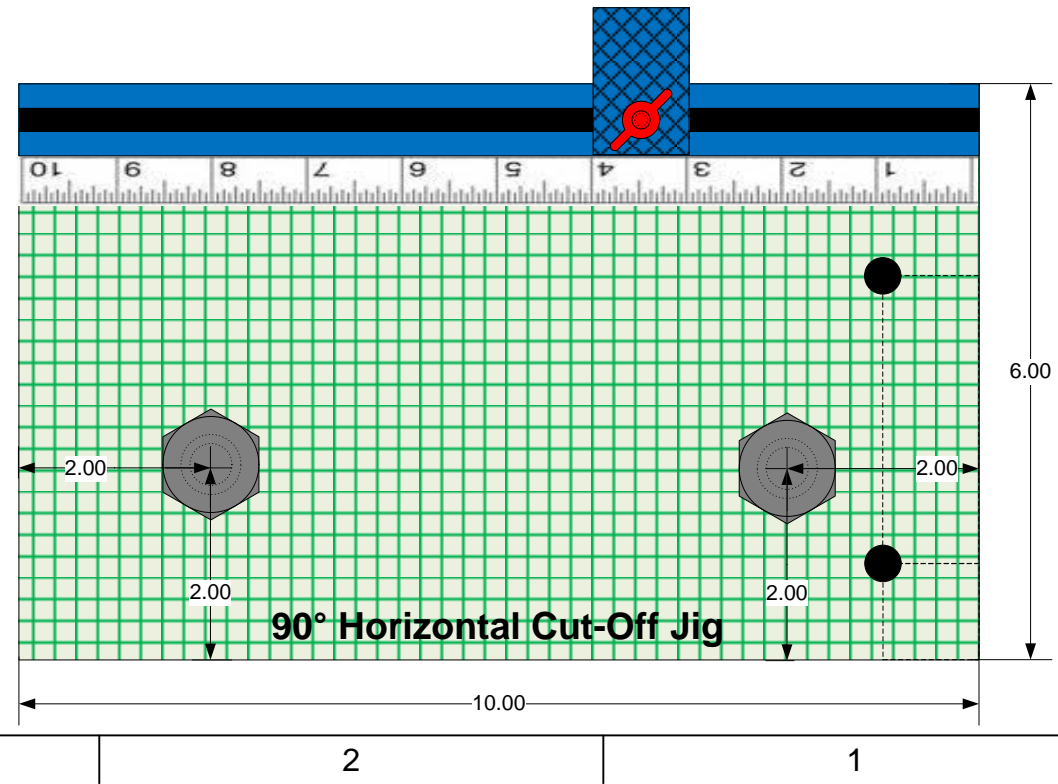
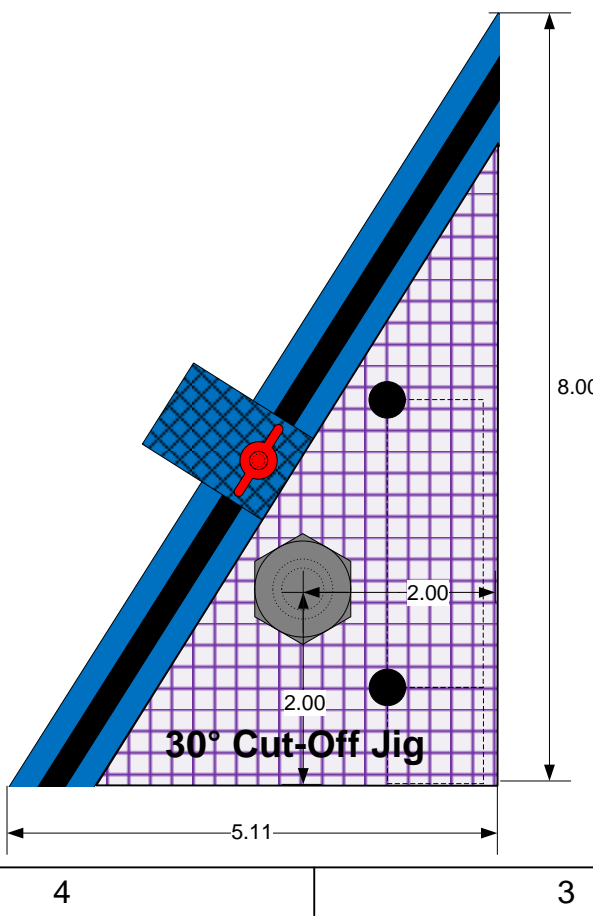
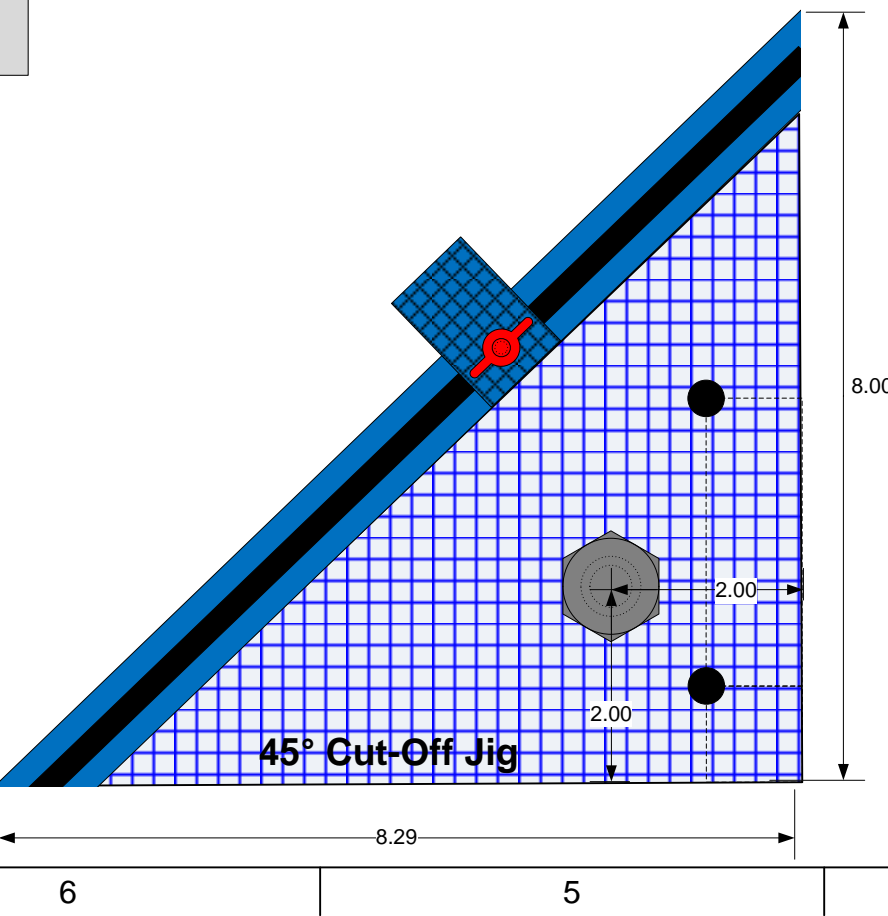
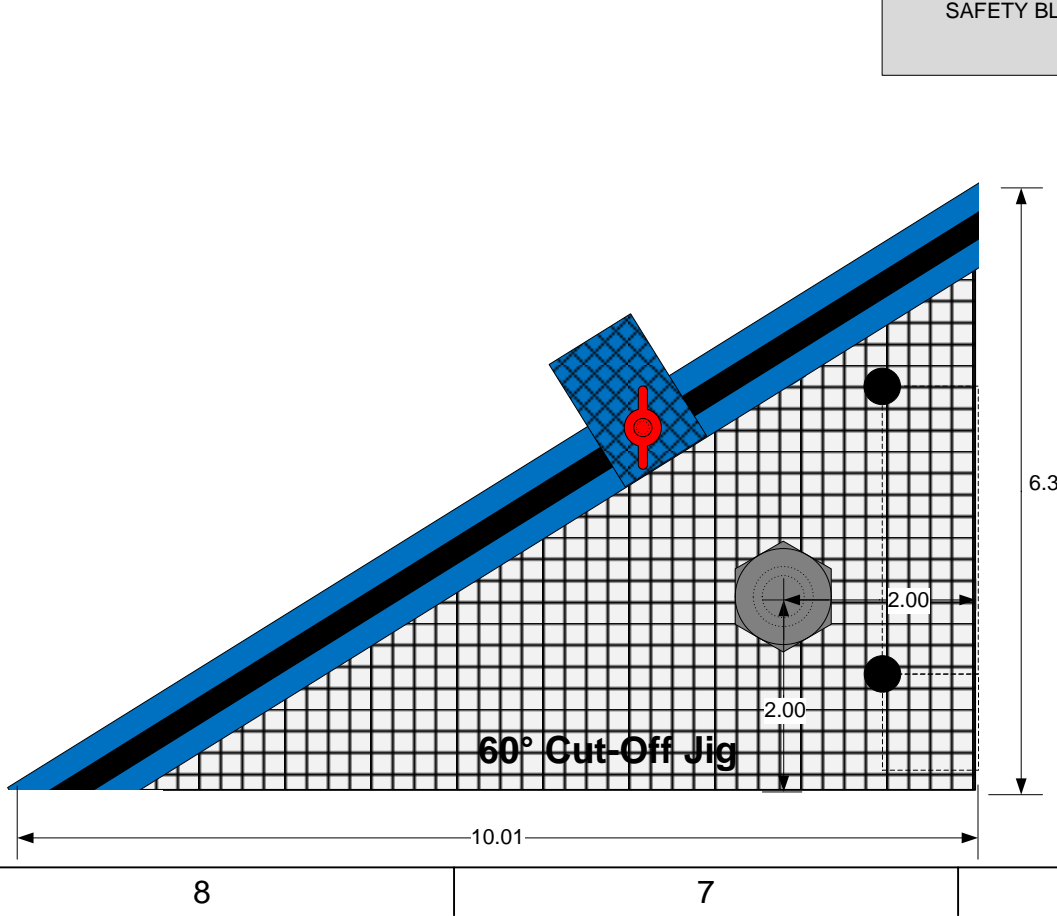
- Base 3/4" x 16" x 20"
- Front Fence 3/4" x 4" x 20"
- Rear Fence 2(3/4" x 4" x 20")
- Incra Adjustable Rails 2(3/4" x 18")

0° Vertical Cut-Off Jig:

- Base 3/4" x 10" x 13 3/4"
- 2 - 1/4" x 6" slots

90° Horizontal Cut-Off Jig

- Base 3/4" x 6" x 10"
- Indexing Pins at 1" & 4", 1" from right edge
- T-Track 3/4" x 10"



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