Designating Material Location in CircuitPro (non standard sheet)

Requirements
1. Circuit Pro version 1.5 revision 164 or higher
2. Fiducial recognition camera (standard on S63 and S103)

Process Steps
1. Go to machine view.
2. Find corner of material.
   a. Press the move head by mouse icon.
b. Move the milling head so that it is near the bottom left corner of the board.
c. Go to the camera menu, movement, move camera to current head position.

d. Go to the camera menu, movement, move to focus height.

e. With the X and Y manual move functions, locate the corner of the board. Center the corner of the board as best as possible to the center of the camera window.

3. Update material settings.
   a. Go to the edit menu and select “material settings”.
b. Enter the material type, copper thickness, material thickness.

![Material Settings Diagram]

- Property:
  - Material Type
  - Copper Thickness [µm]
  - Material thickness
  - Underride plate thickness

- Location:
  - Click into the machine area to move the milling head to the associated position.
  - Use the buttons to set the front left and right rear corner of the material.

Material width: 265.4 mm
Material length: 226 mm
Surface head [mm]: 0
Material Concave [mm]: (0.50 / 0.50 / 0.50) - (0.10 / 0.10 / 0.10)

![Material Settings Diagram]

- Property:
  - Material Type
  - Copper Thickness [µm]
  - Material thickness
  - Underride plate thickness

- Location:
  - Click into the machine area to move the milling head to the associated position.
  - Use the buttons to set the front left and right rear corner of the material.

Material width: 181.5 mm
Material length: 226 mm
Surface head [mm]: 0
Material Concave [mm]: (8.35 / 3.00) - (218.30 / 218.30)

- Location Field:
  - In the location field, press the lower left corner icon.

- Location Field:
  - Press ok.

4. Reset head position.
   a. Go to the camera menu, movement, move head to camera position.

   ![Camera Menu]

   - Options
   - Actions
   - Movement
     - Set Current Height as Focus Height
     - Move to Focus Height
     - Move Camera to Current Head Position
     - Move Head to Current Camera Position

   ![Camera Menu]

   - Set Current Height as Focus Height
   - Move to Focus Height
   - Move Camera to Current Head Position
   - Move Head to Current Camera Position

5. Repeat step 2 for the top right corner of the board.
6. Update Material Properties
   a. Go to the edit menu and select material settings.
   b. Press the upper right corner icon.
   c. On the material settings screen, press ok.

7. Process Complete