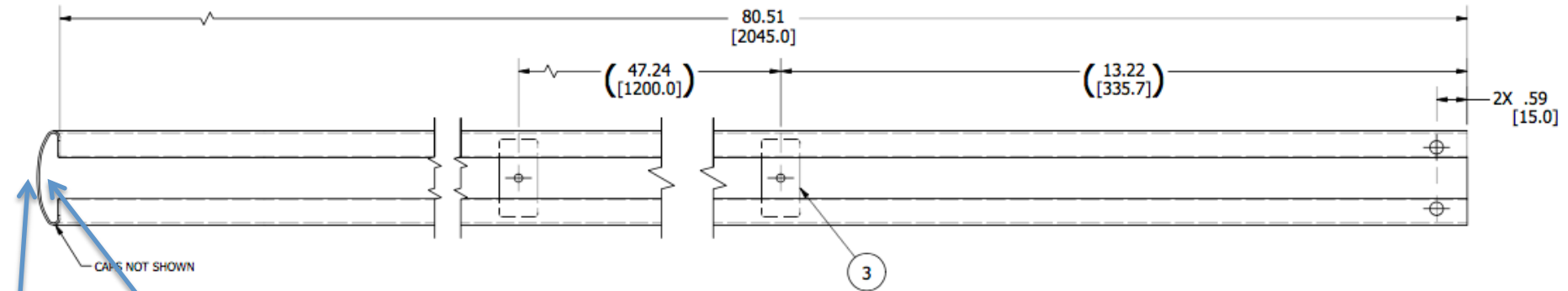
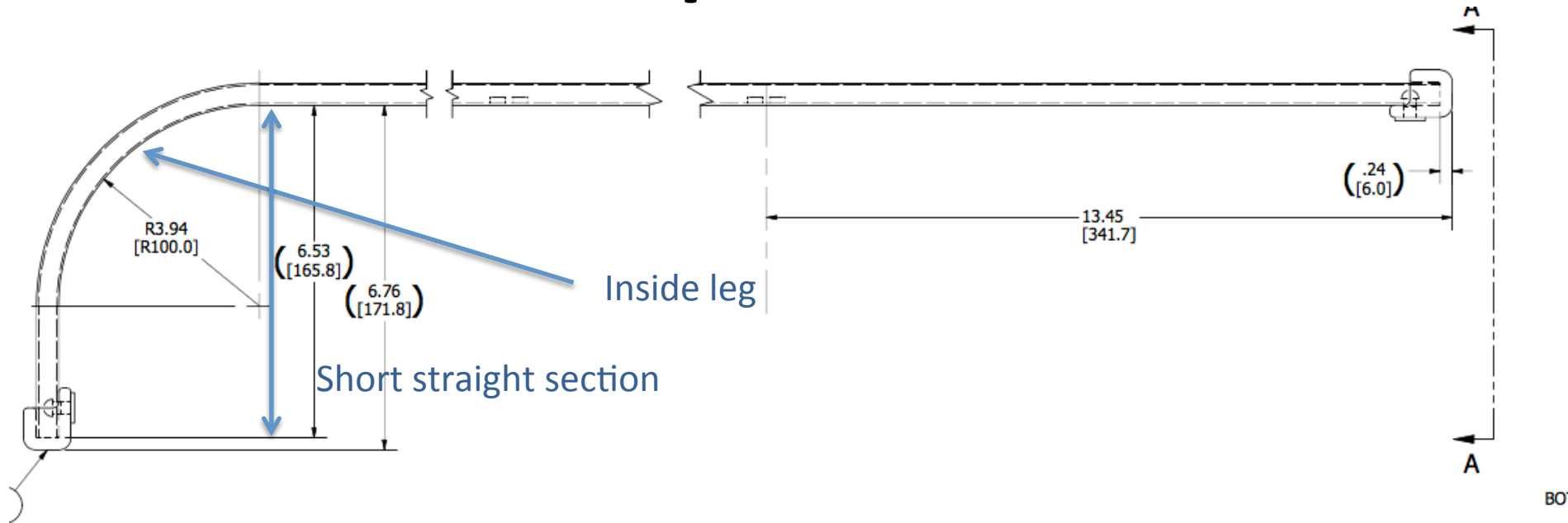


AI profile length measurements

Caleb Derrickson, Thomas Kutter, Tyler Stokes

LSU

Al profiles

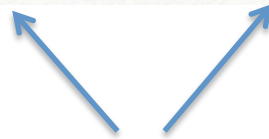


NOTE: overall length different

Measurements of Bent Profiles

1. Bent Length

| Profile Label # | Inside Leg | Inside Center | Outside Center | 3. Short Straight Section: |
|-----------------|------------|---------------|----------------|----------------------------|
| 21 | 83.953" | 84.479" | 84.6719" | 6.536" |
| 24 | 83.96875" | 84.46875" | 84.65625" | 6.548" |
| 25 | 83.96875" | 84.46875" | 84.65625" | 6.536" |
| 26 | 83.953125" | 84.5" | 84.64975" | 6.529" |
| 27 | 83.921875" | 84.4875" | 84.6625" | 6.536" |
| 28 | 83.96875" | 84.5" | 84.625" | 6.533" |



About ~4mm difference !?

Naively expect : $\pi/2 * r \approx 1.6$ mm with $r \approx 1$ mm

Measurements of Profile before and after bending

NOTE: overall length of profile different from profiles shown on previous page

| | inch | mm | difference [mm] | | |
|------------------|--------|--------|-----------------|------|----------------|
| | | | | | to straight |
| straight profile | 90.03 | 2286.8 | | | |
| inside leg | 89.813 | 2281.2 | | | -5.5 |
| inside center | 90.281 | 2293.1 | 11.9 | | 6.4 |
| outside center | 90.422 | 2296.7 | 3.6 | 15.5 | 10.0 |

Al profiles

