

FEMD

Team 57

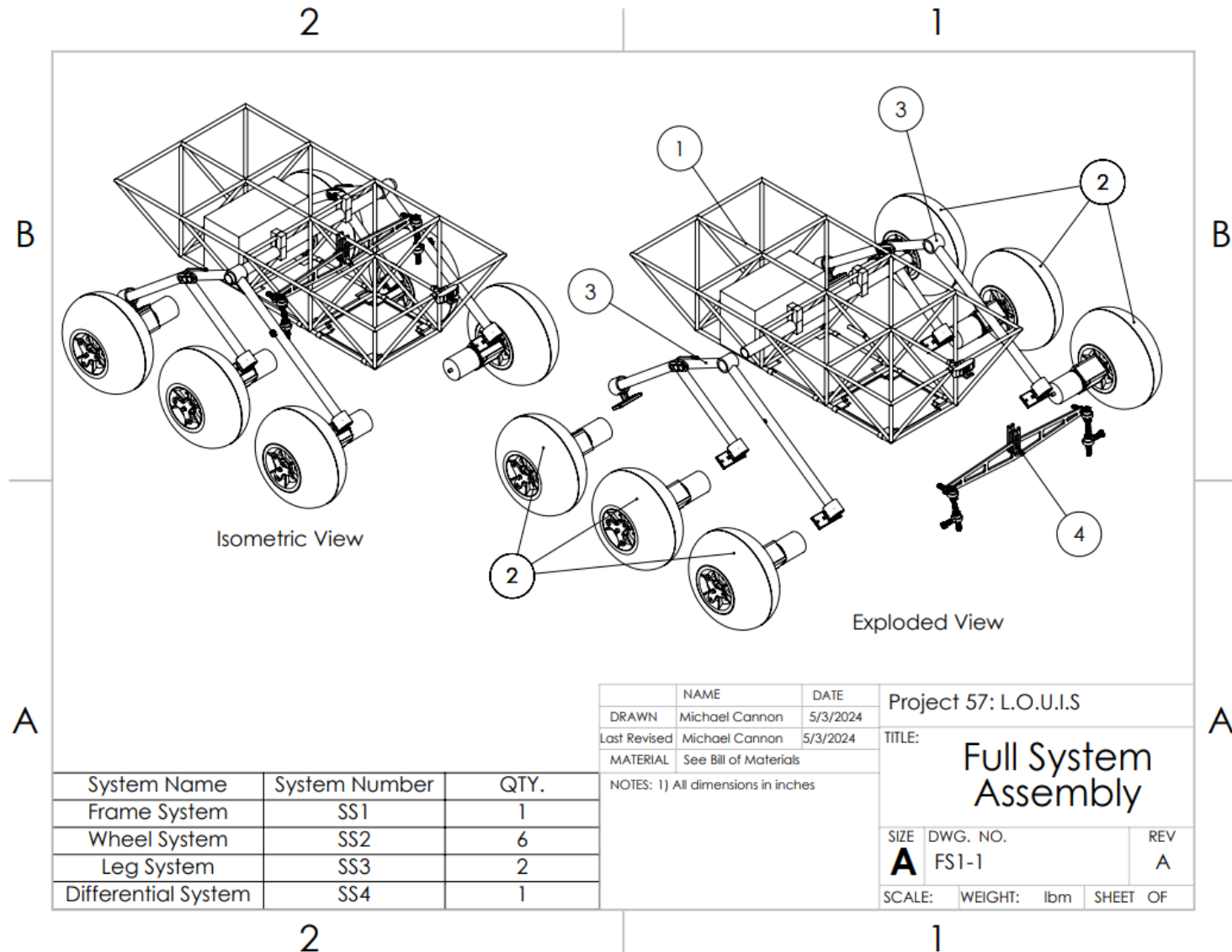


Figure 1: Exploded view of mechanical subsystems

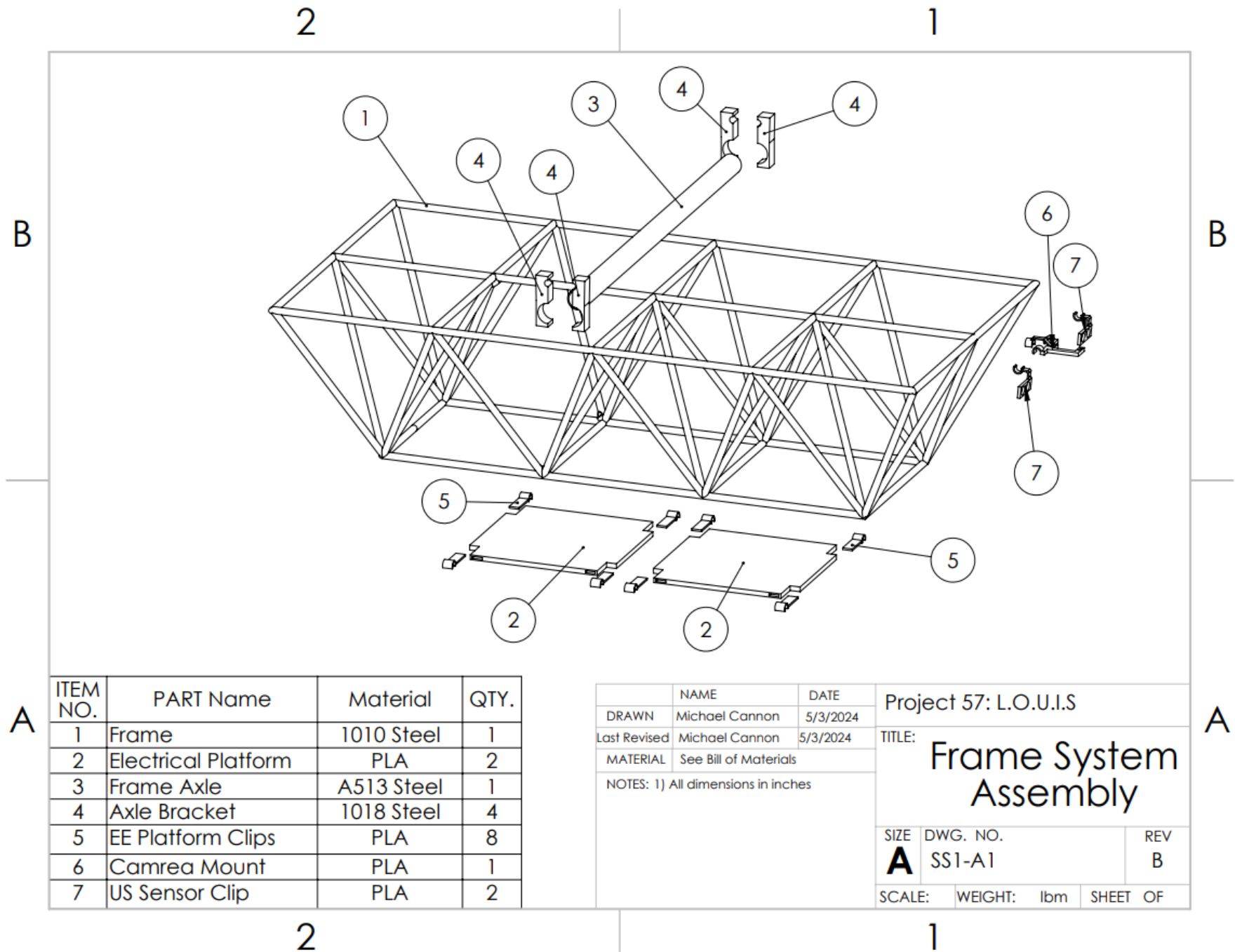


Figure 2: Exploded View Assembly Drawing of Sub-System SS1 - Frame

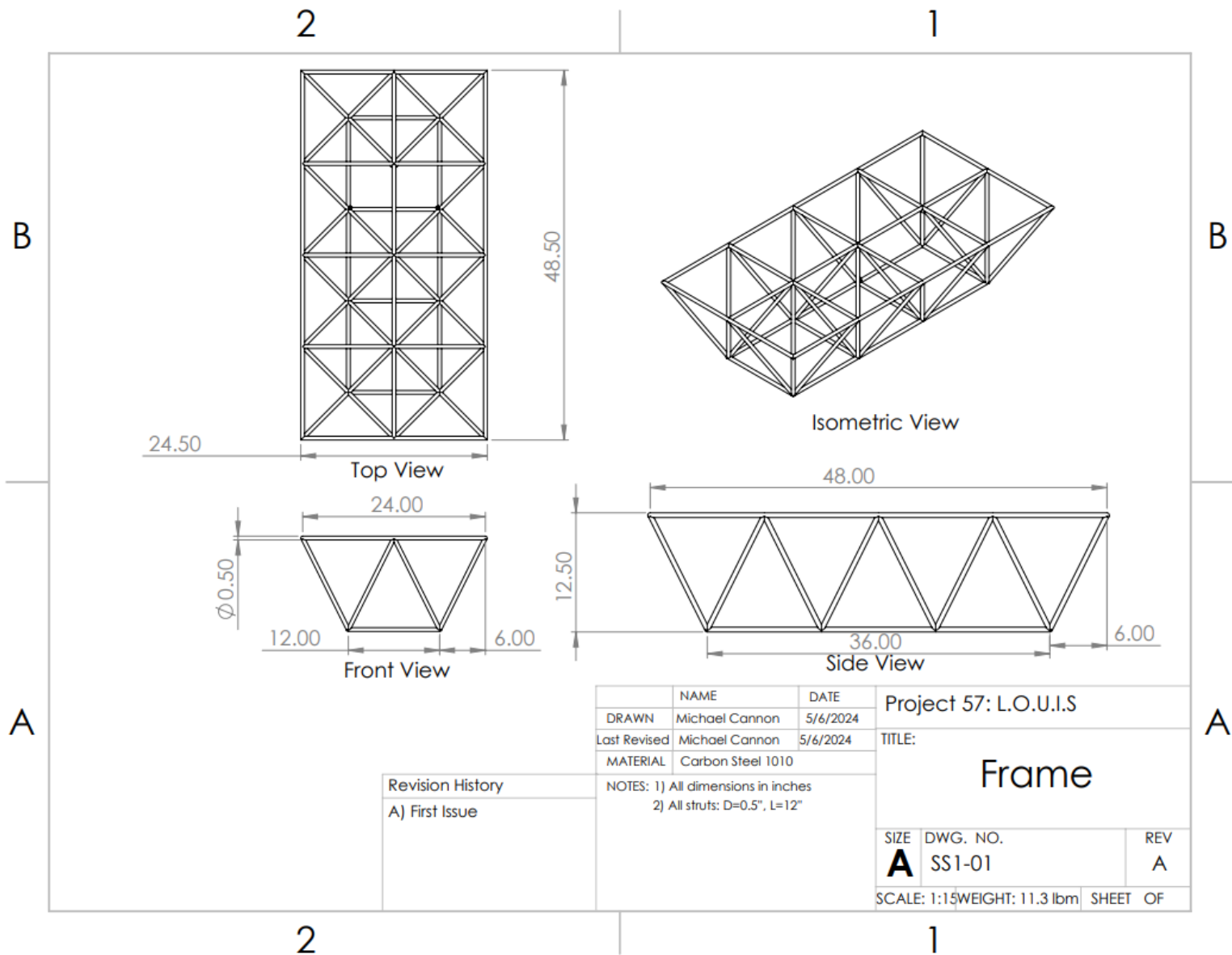


Figure 3: Manufacturing Drawing of part SS1-P1 - Frame

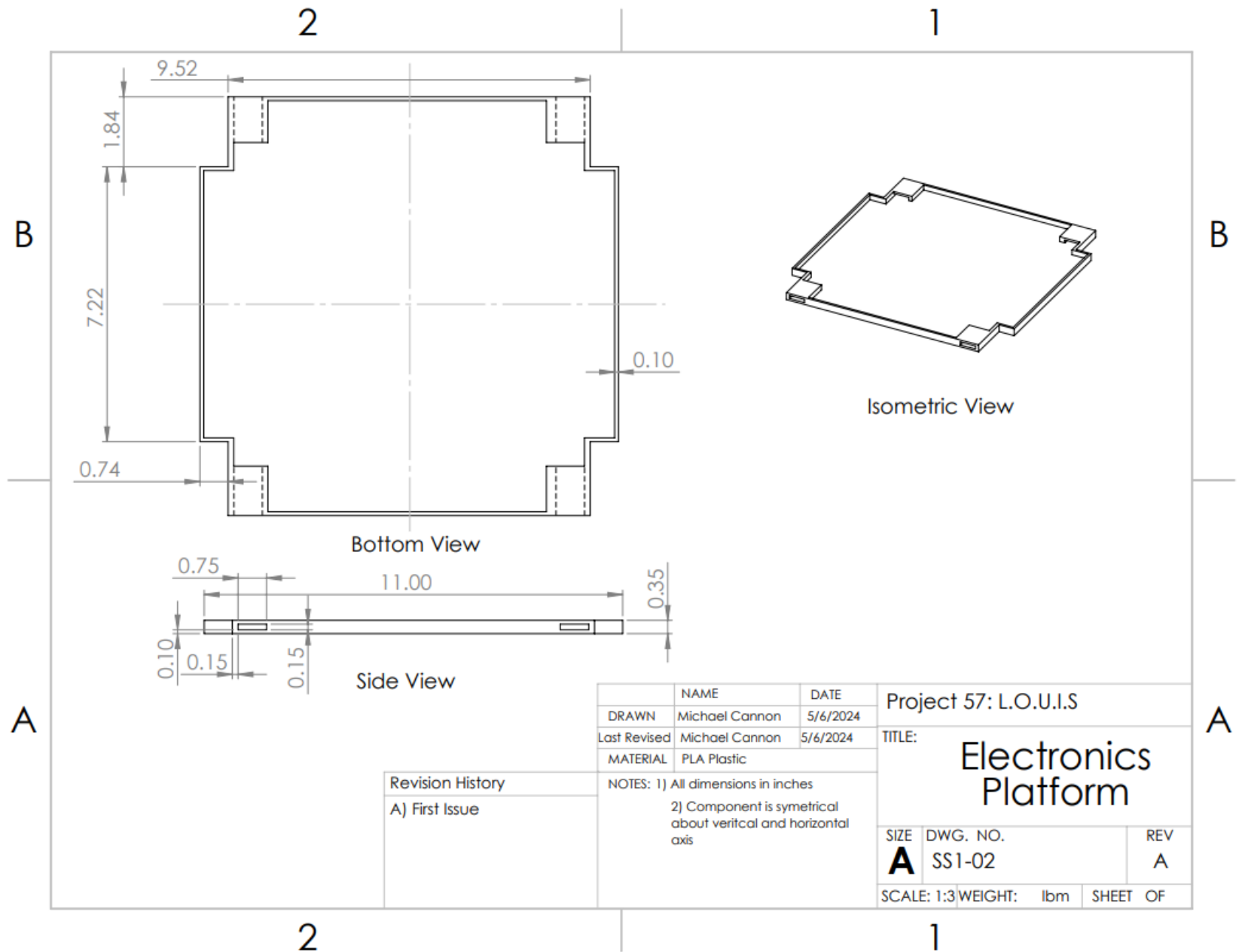


Figure 4: Manufacturing Drawing of part SS1-P2 – Electronics Platform

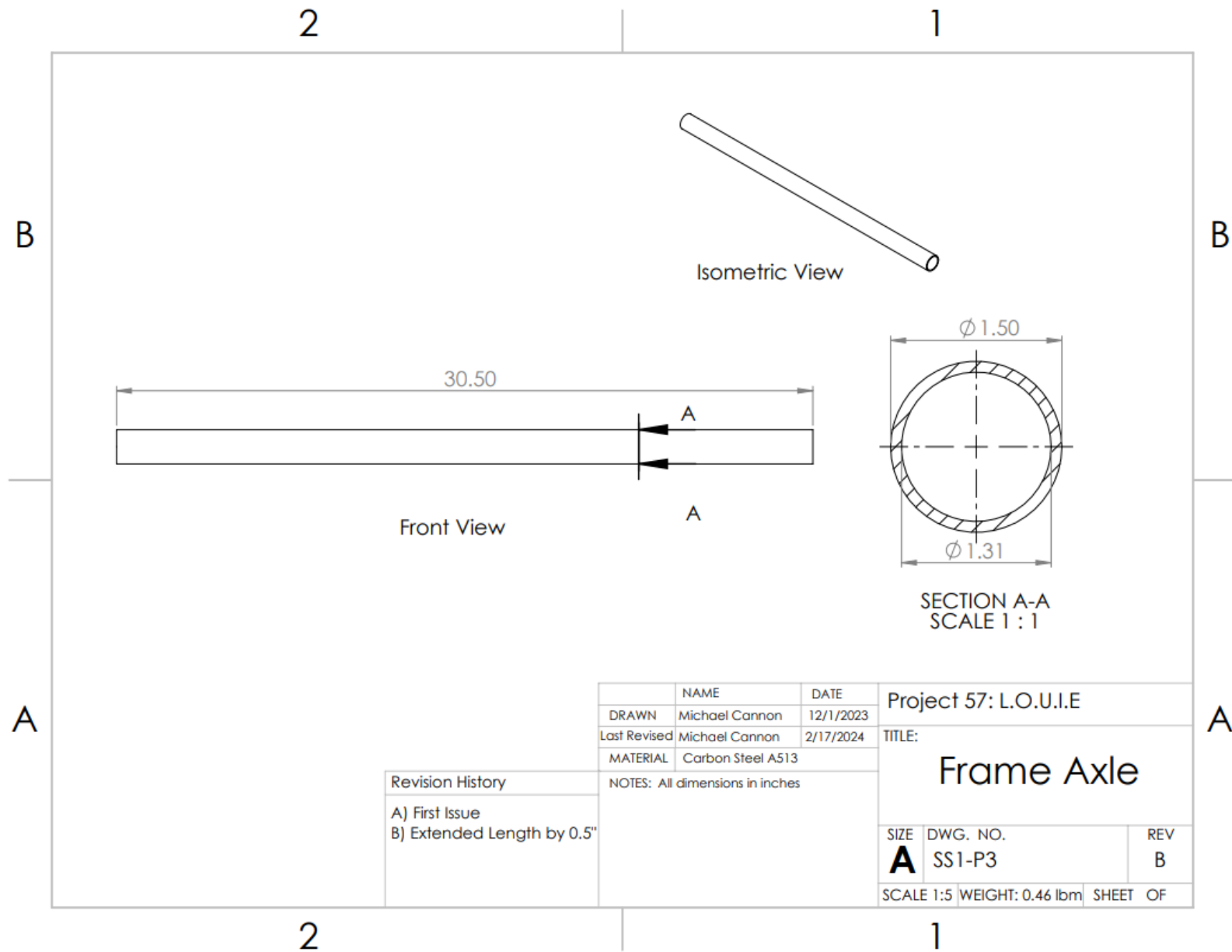


Figure 5: Manufacturing Drawing of part SS1-P3 – Frame Axle

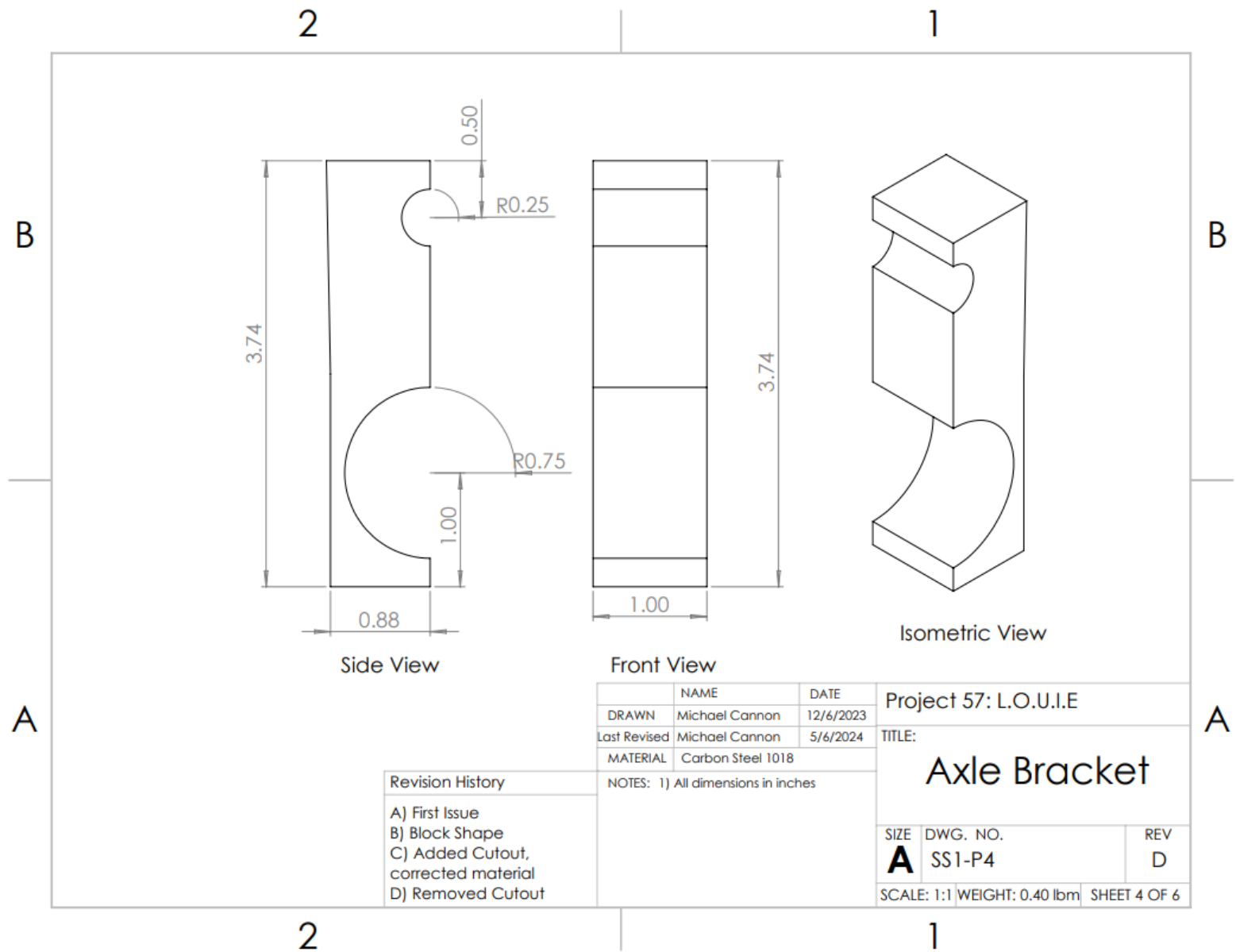


Figure 6: Manufacturing Drawing of part SS1-P4 – Axle Bracket

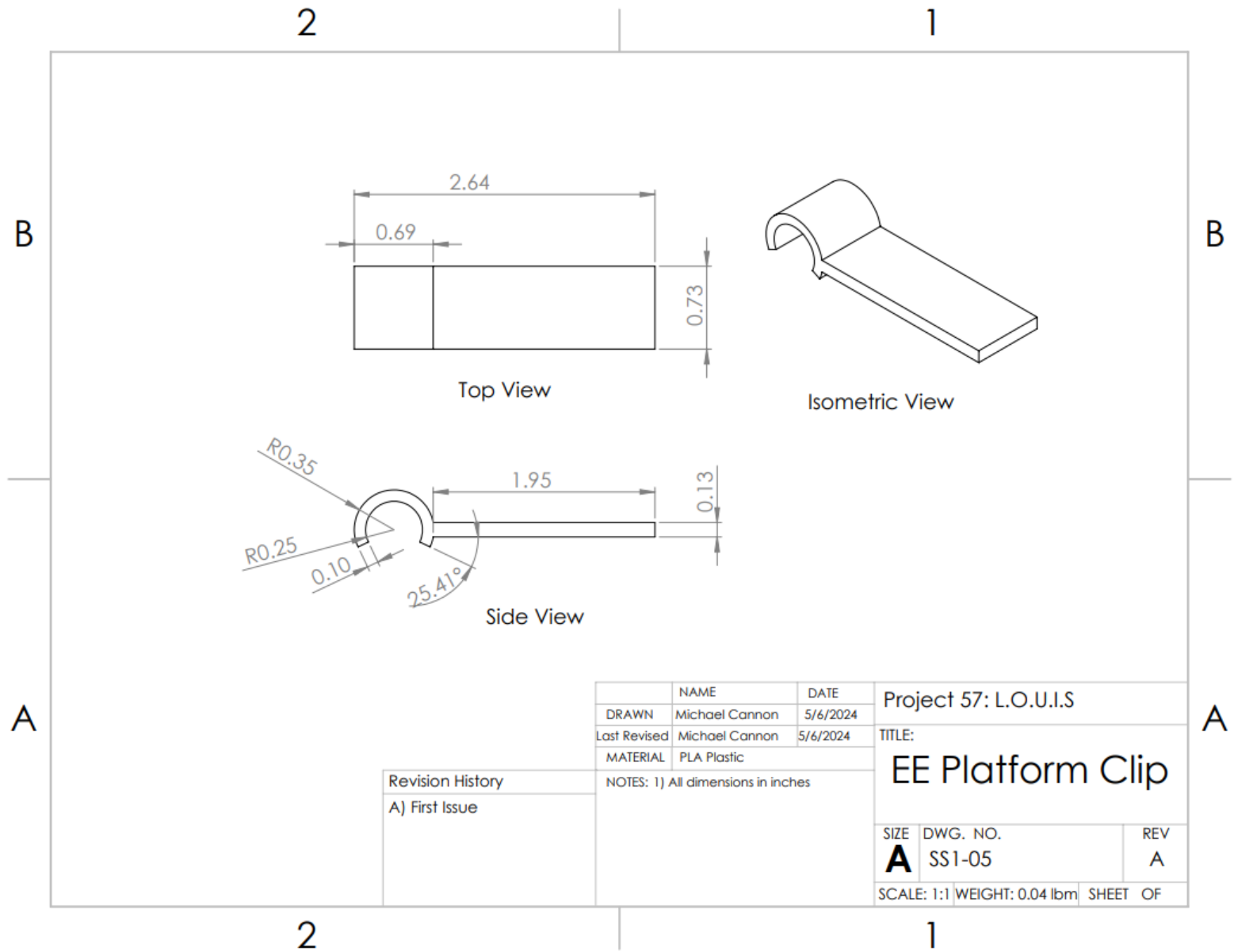


Figure 7: Manufacturing Drawing of part SS1-P5– EE Platform Clip

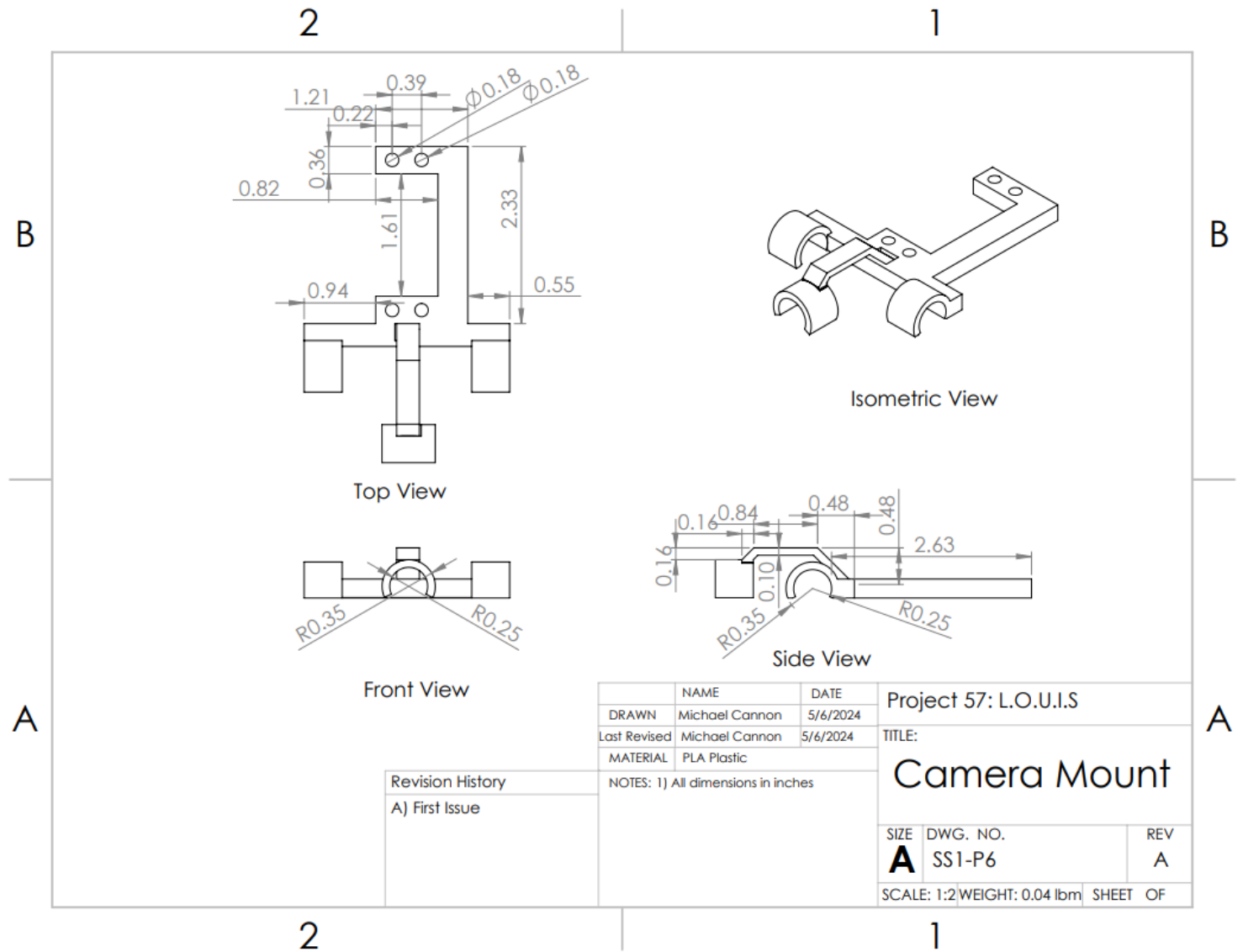


Figure 8: Manufacturing Drawing of part SS1-P6– Camera Mount

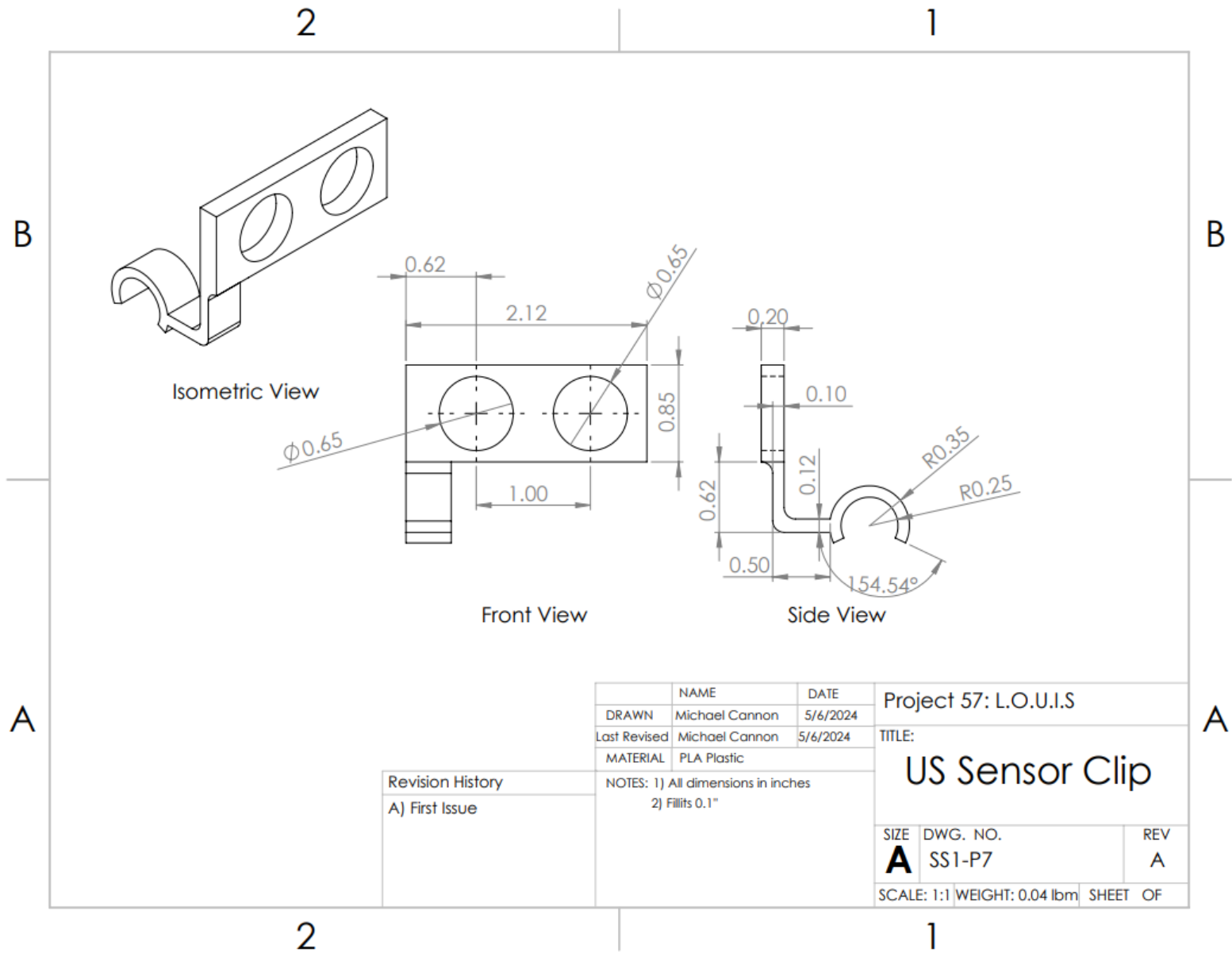


Figure 9: Manufacturing Drawing of part SS1-P7– US Sensor Clip

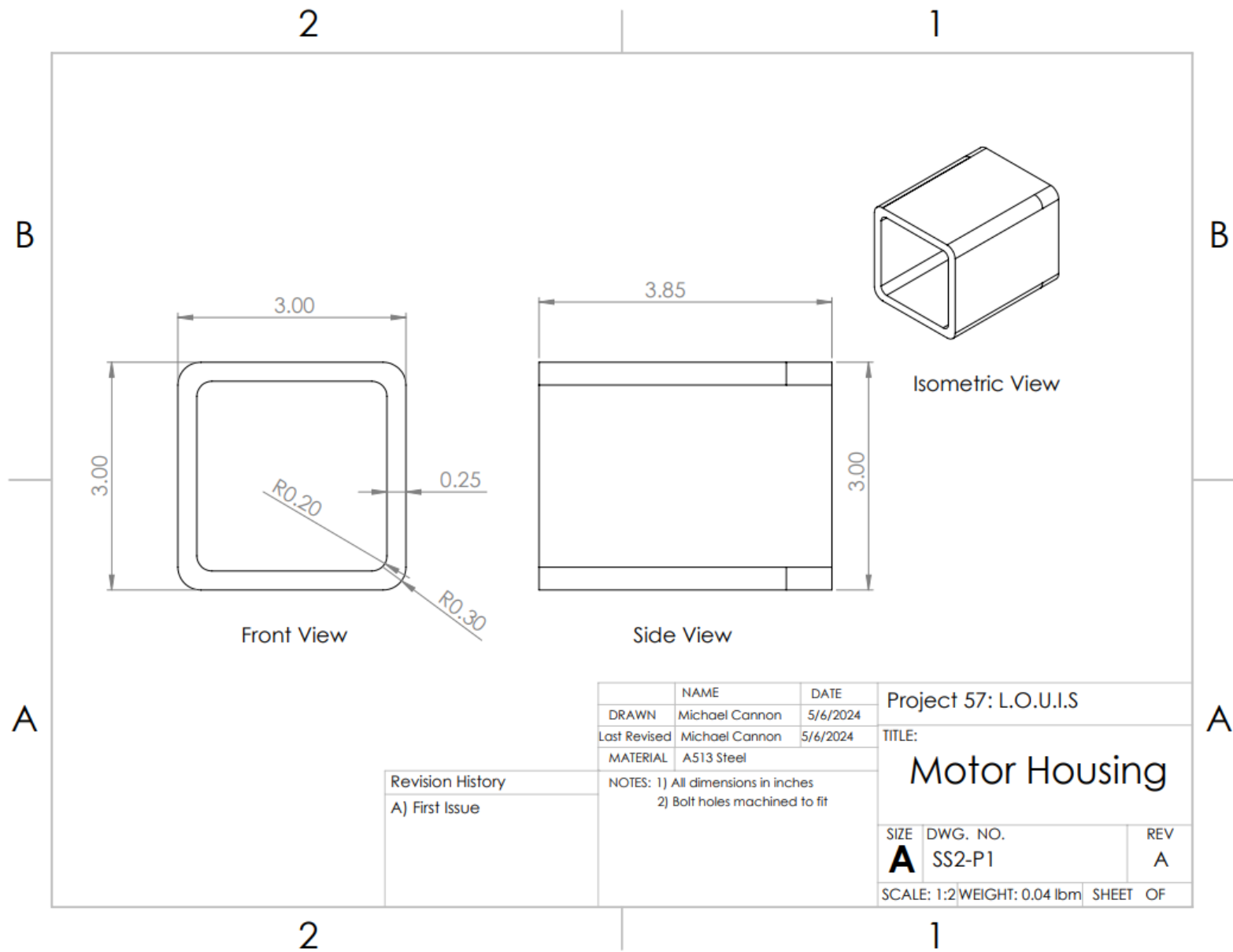


Figure 11: Manufacturing Drawing of part SS2-P1- Motor Housing

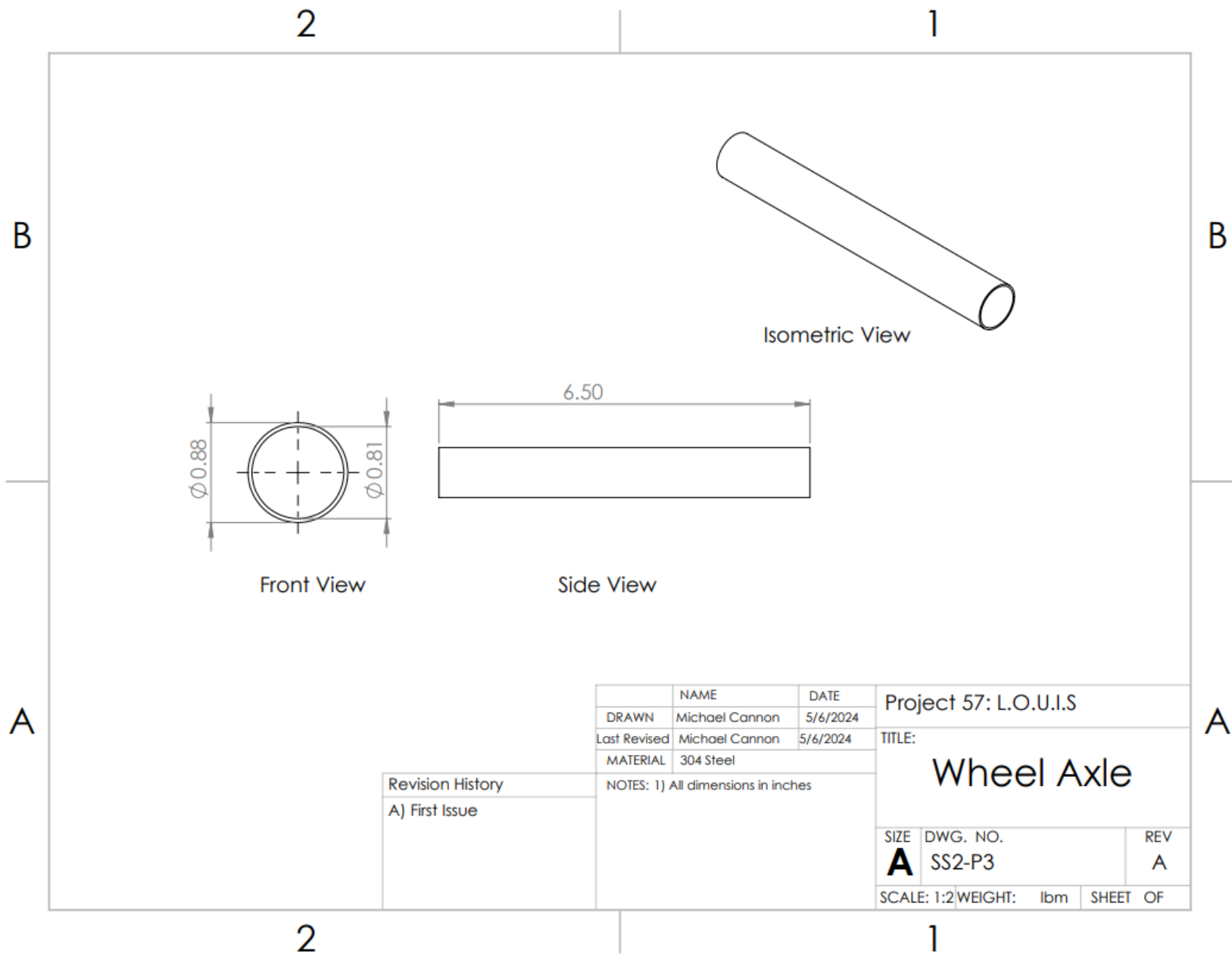


Figure 12: Manufacturing Drawing of part SS2-P3- Wheel Axle

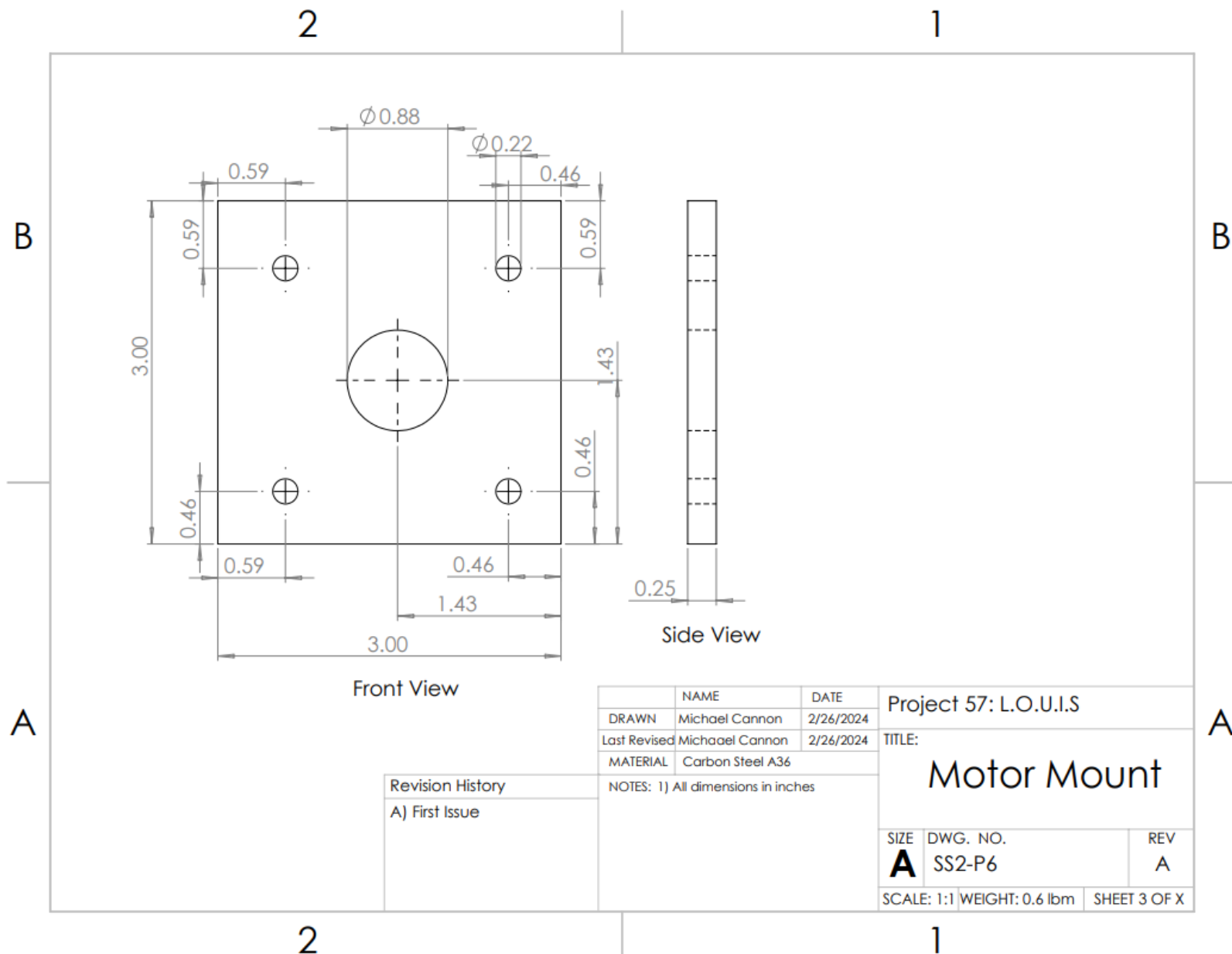


Figure 13: Manufacturing Drawing of part SS2-P6- Motor Mount

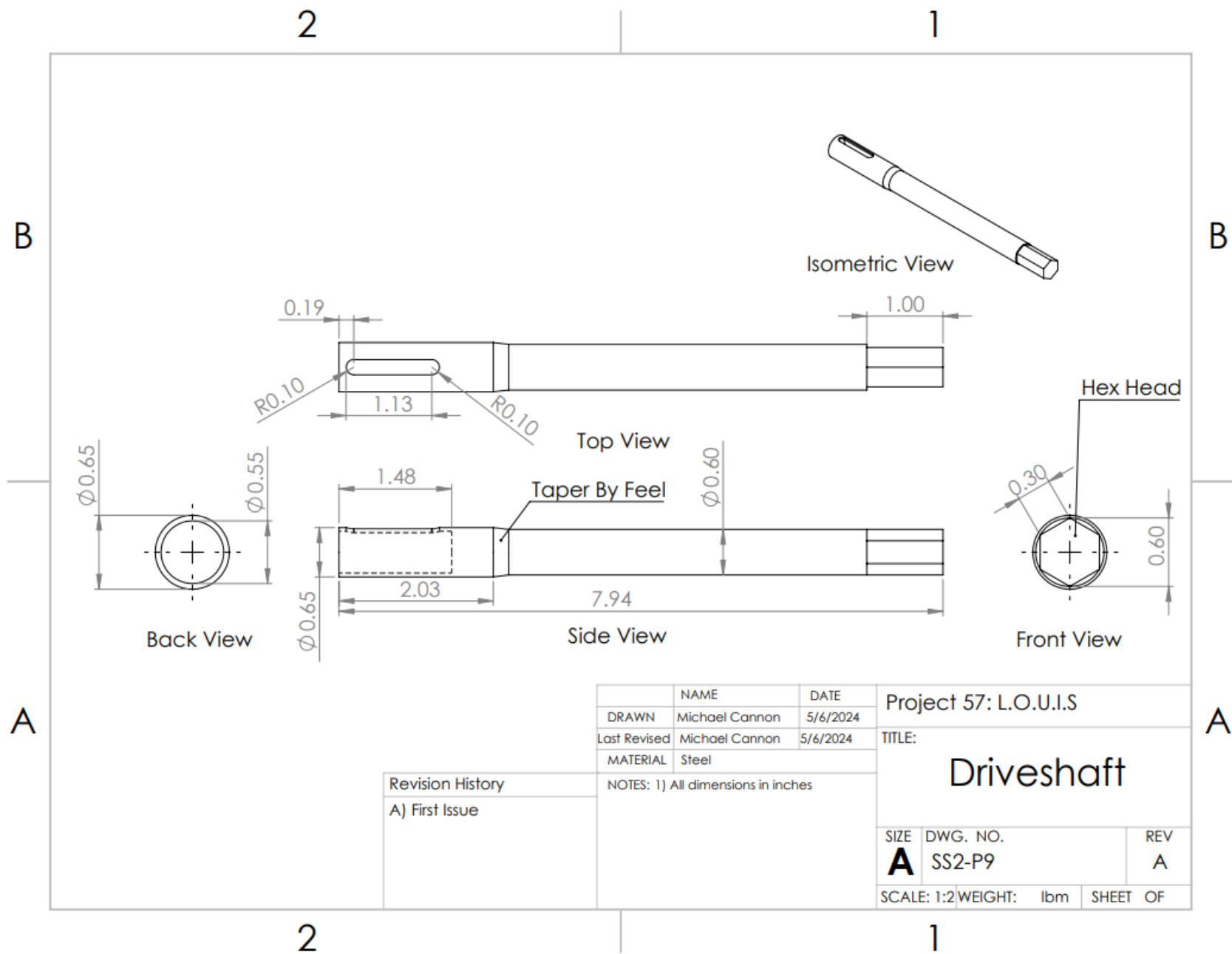


Figure 14: Manufacturing Drawing of part SS2-P9- Driveshaft

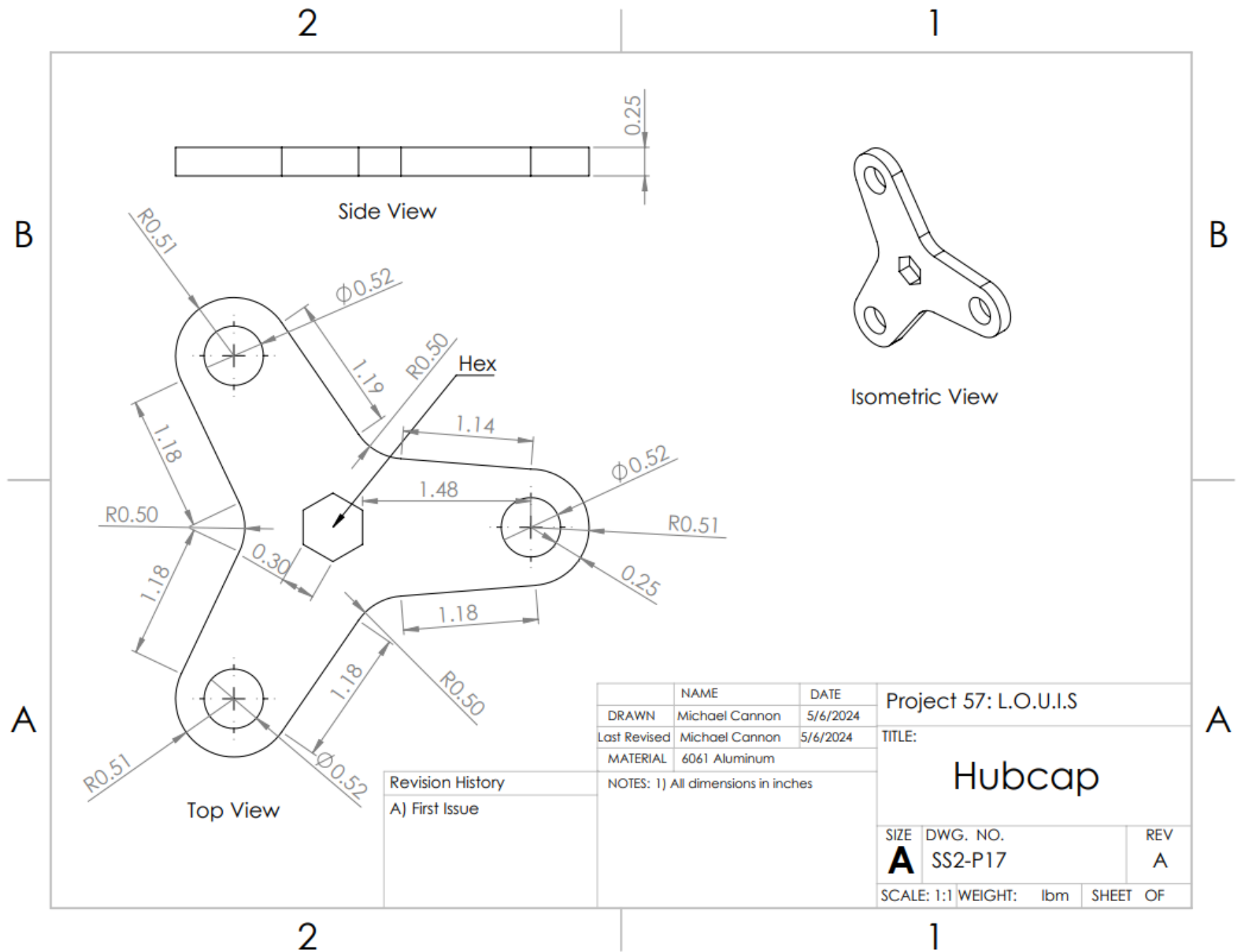


Figure 15: Manufacturing Drawing of part SS2-P17- Hubcap

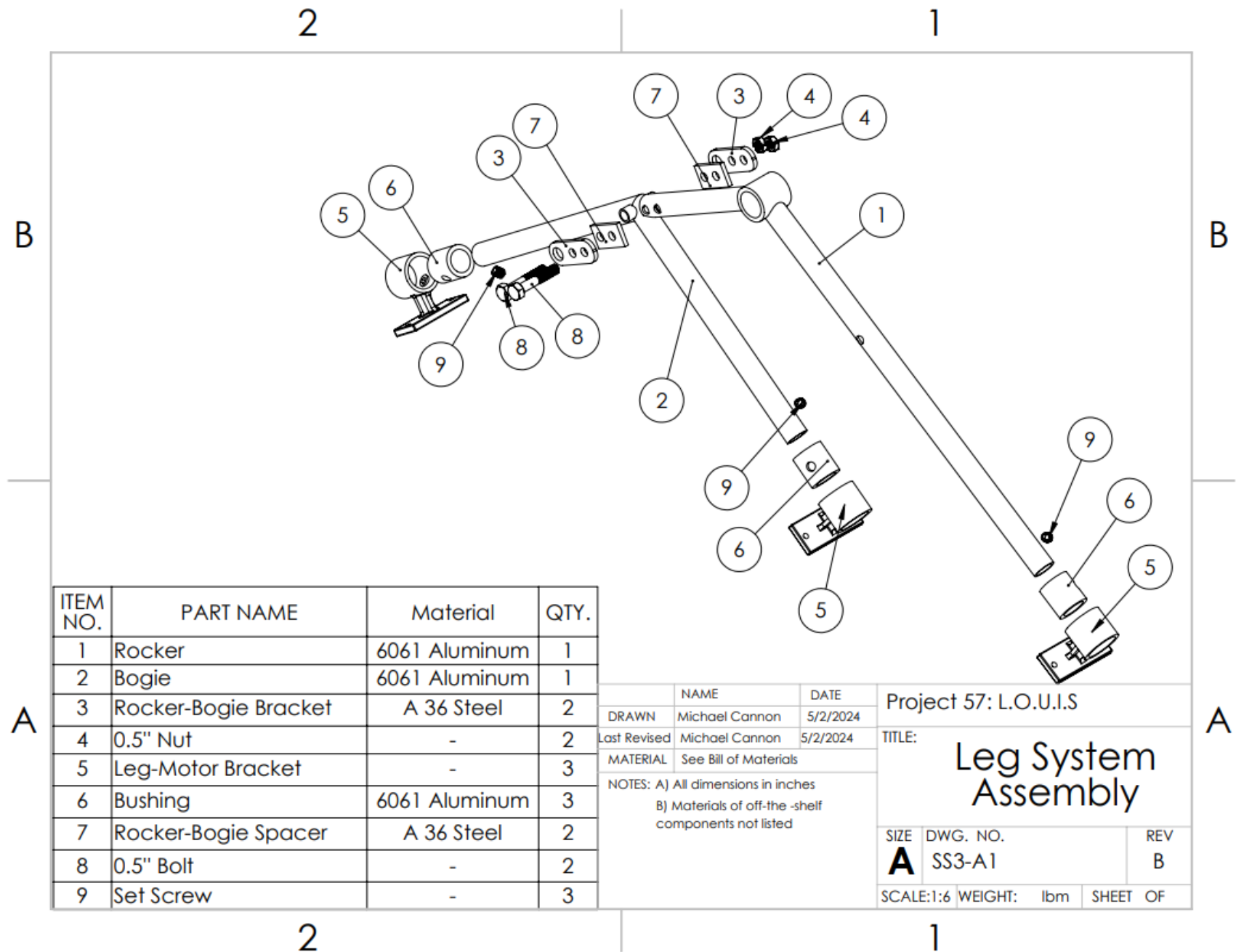


Figure 16: Exploded View Assembly Drawing of Sub-System SS3 - Legs

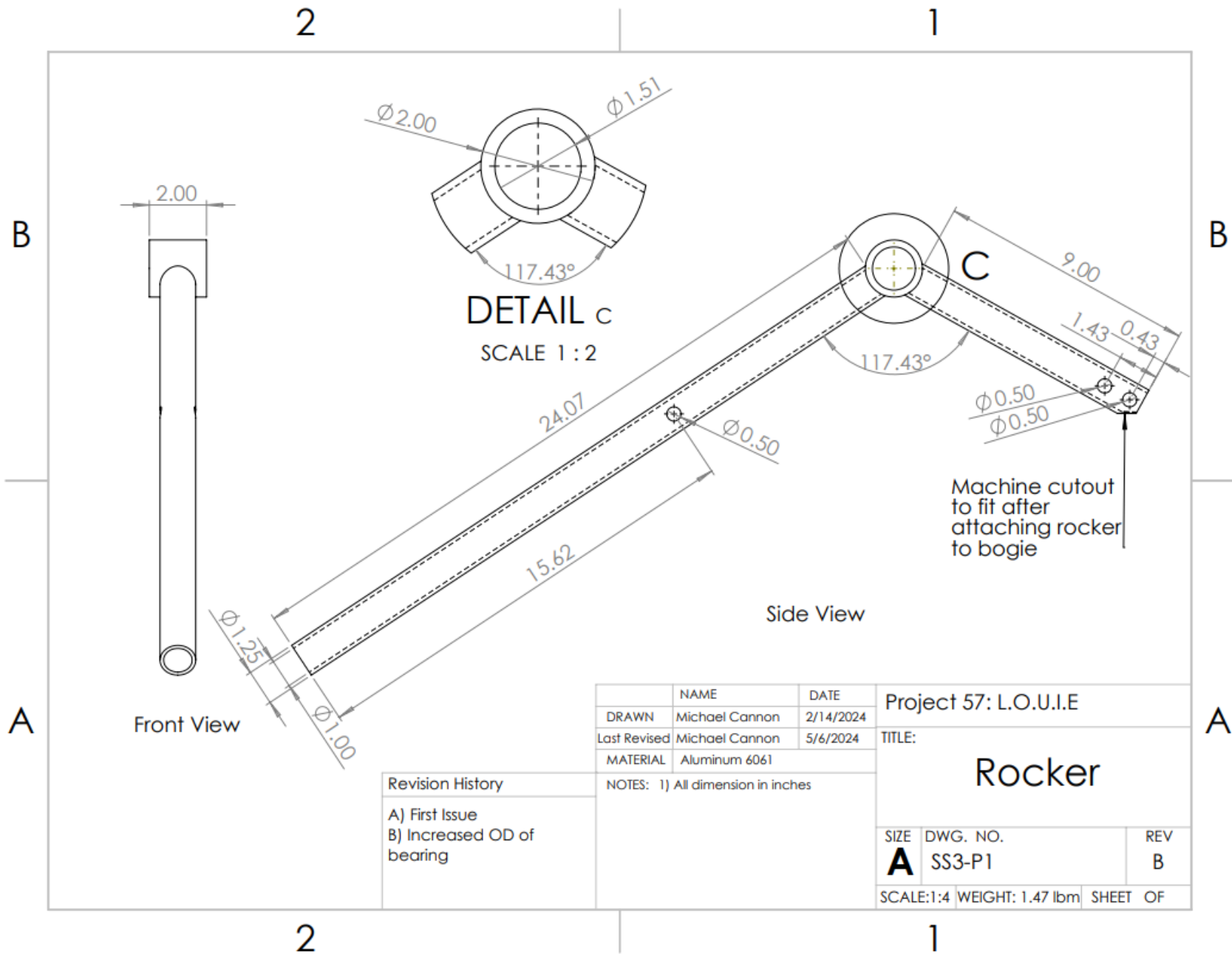


Figure 17: Manufacturing Drawing of part SS3-P1- Rocker

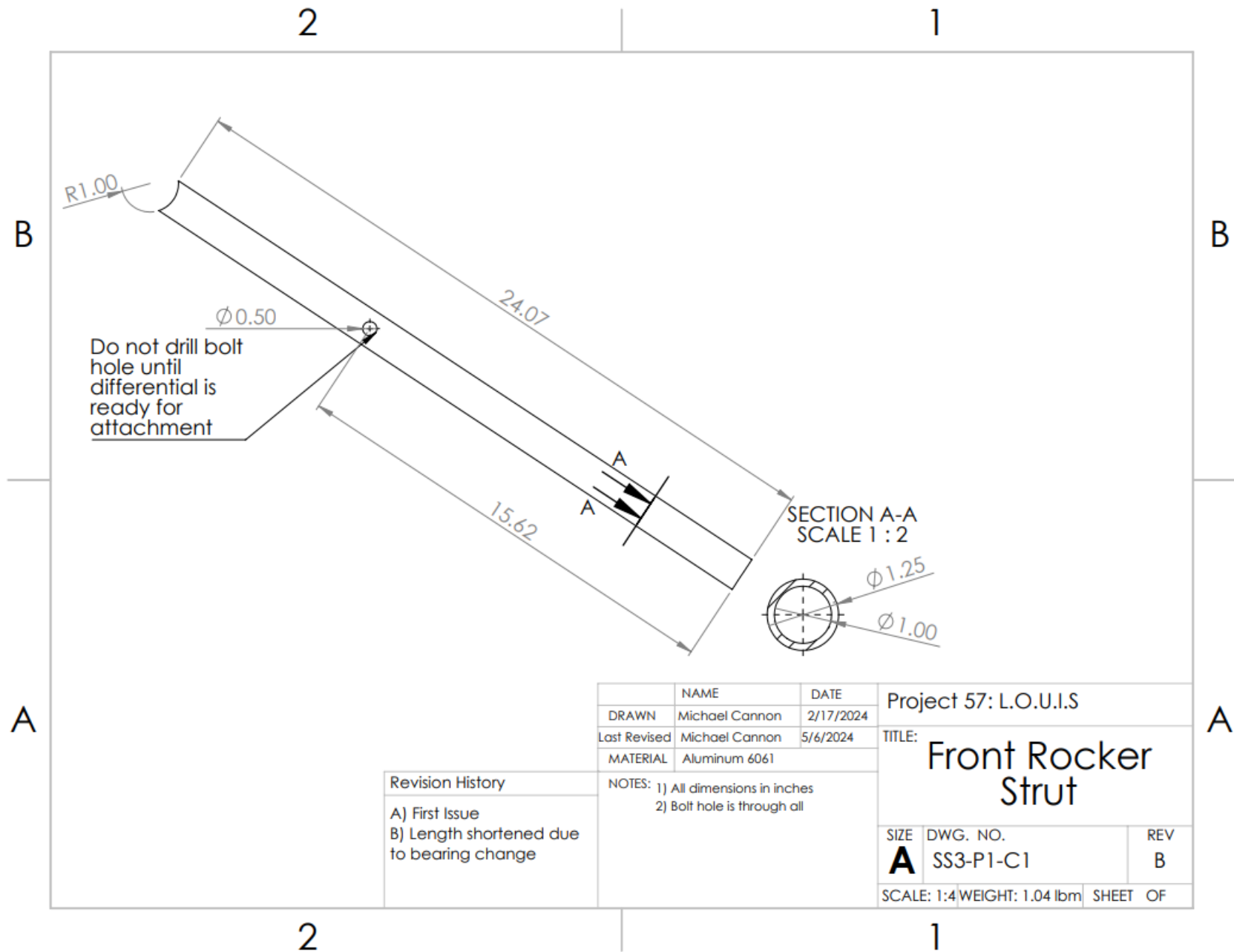


Figure 18: Manufacturing Drawing of part SS3-P1-C1- Rocker Front Strut

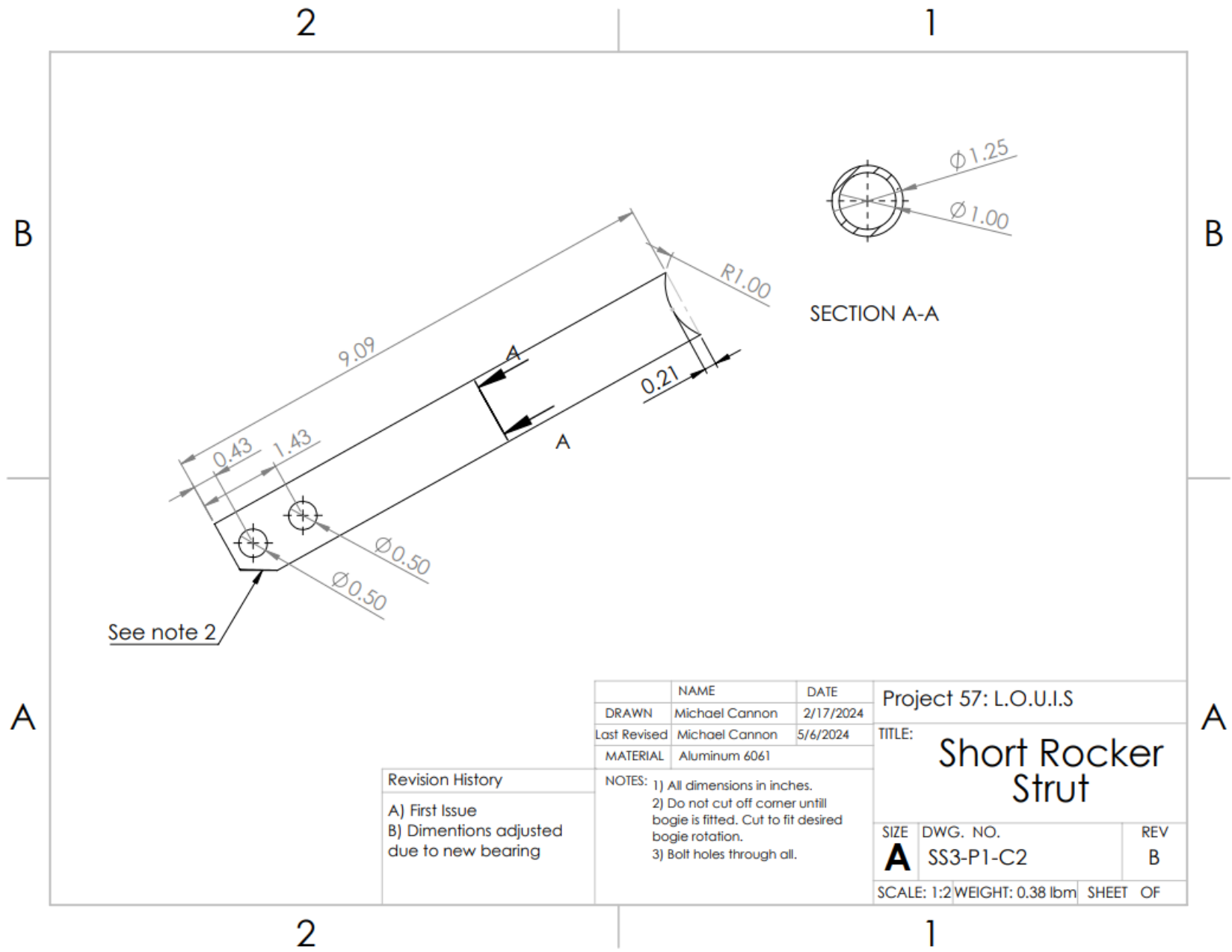


Figure 19: Manufacturing Drawing of part SS3-P1-C2- Rocker Short Strut

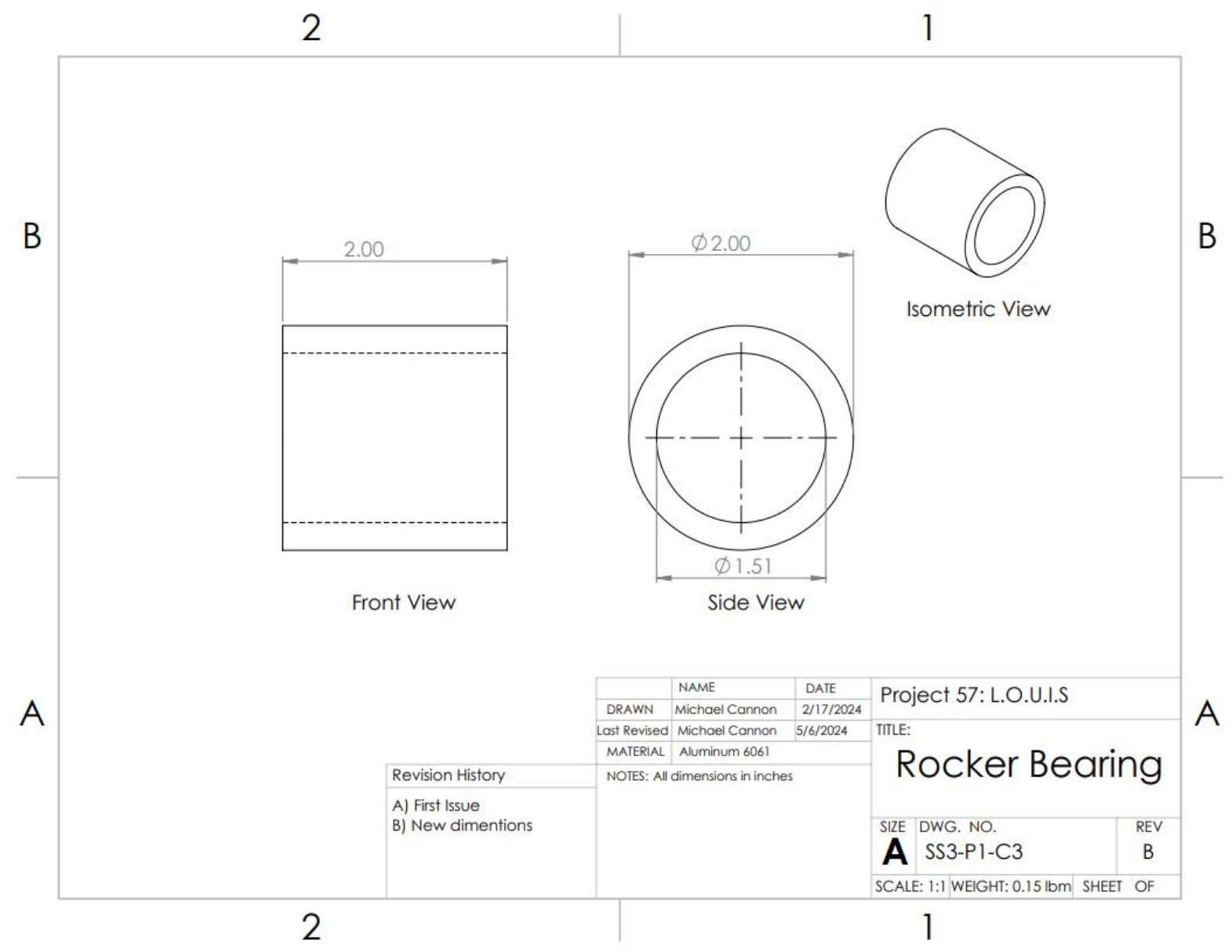


Figure 20: Manufacturing Drawing of part SS3-P1-C3- Rocker Bearing

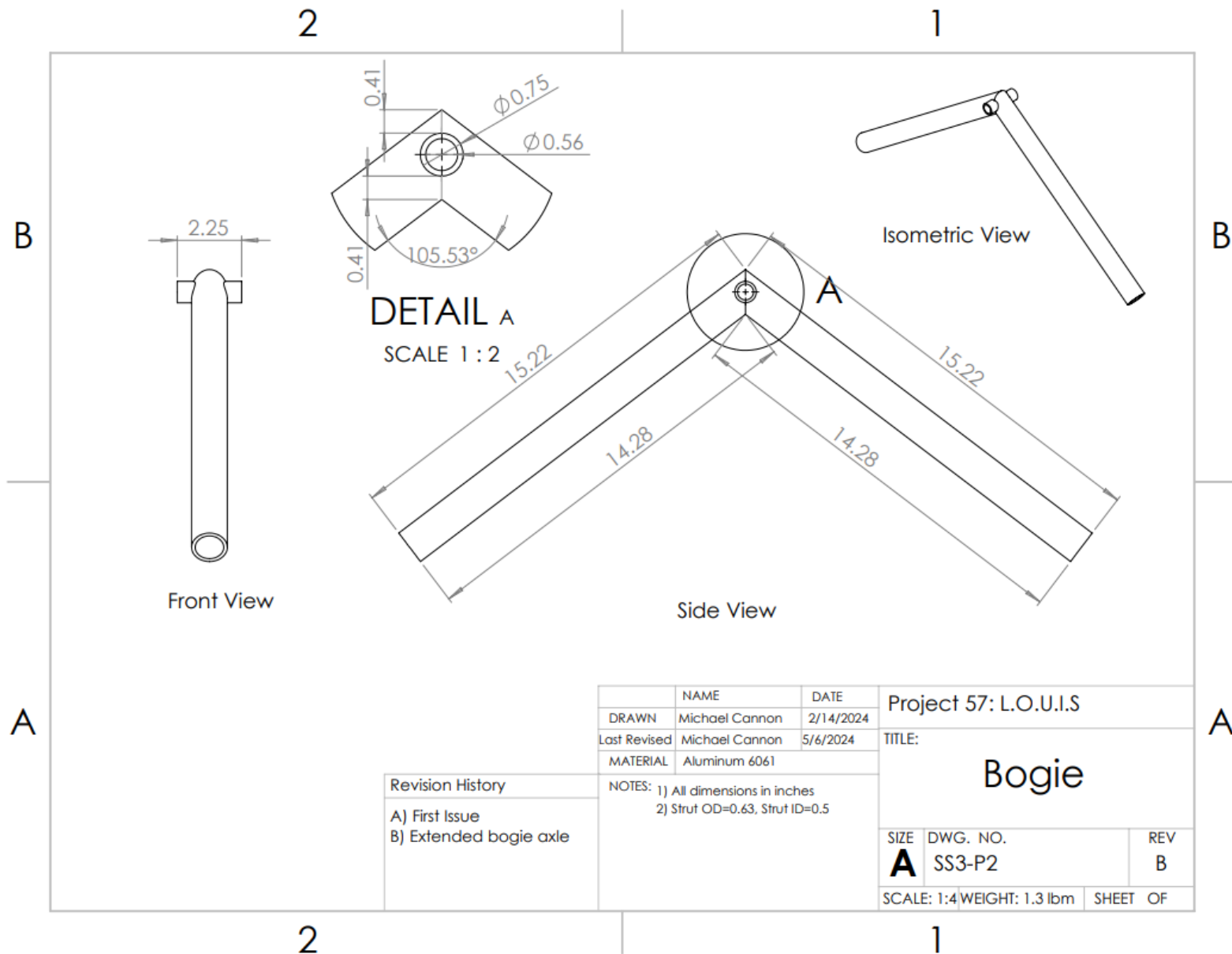


Figure 21: Manufacturing Drawing of part SS3-P2- Bogie

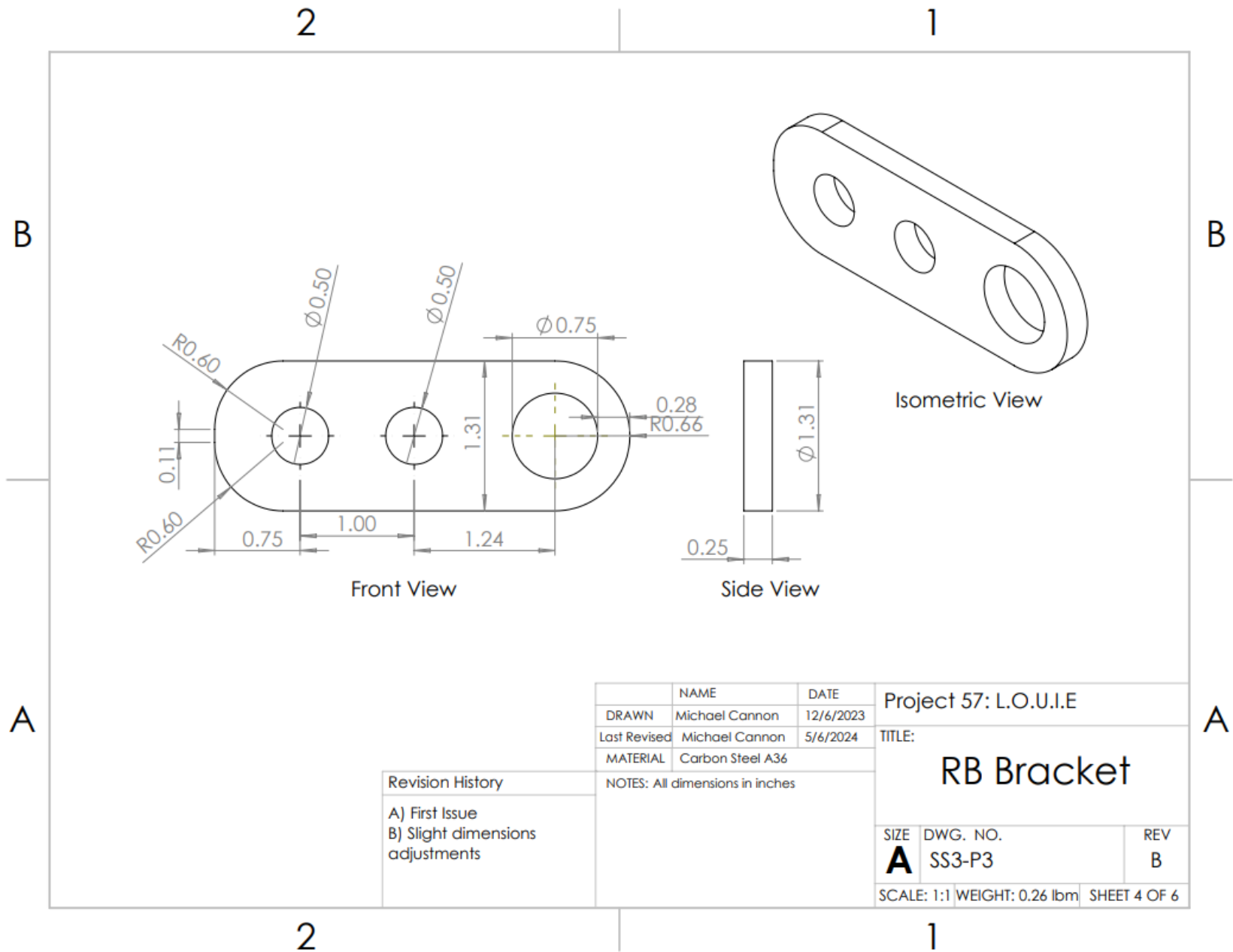


Figure 23: Manufacturing Drawing of part SS3-P3- Rocker-Bogie Bracket

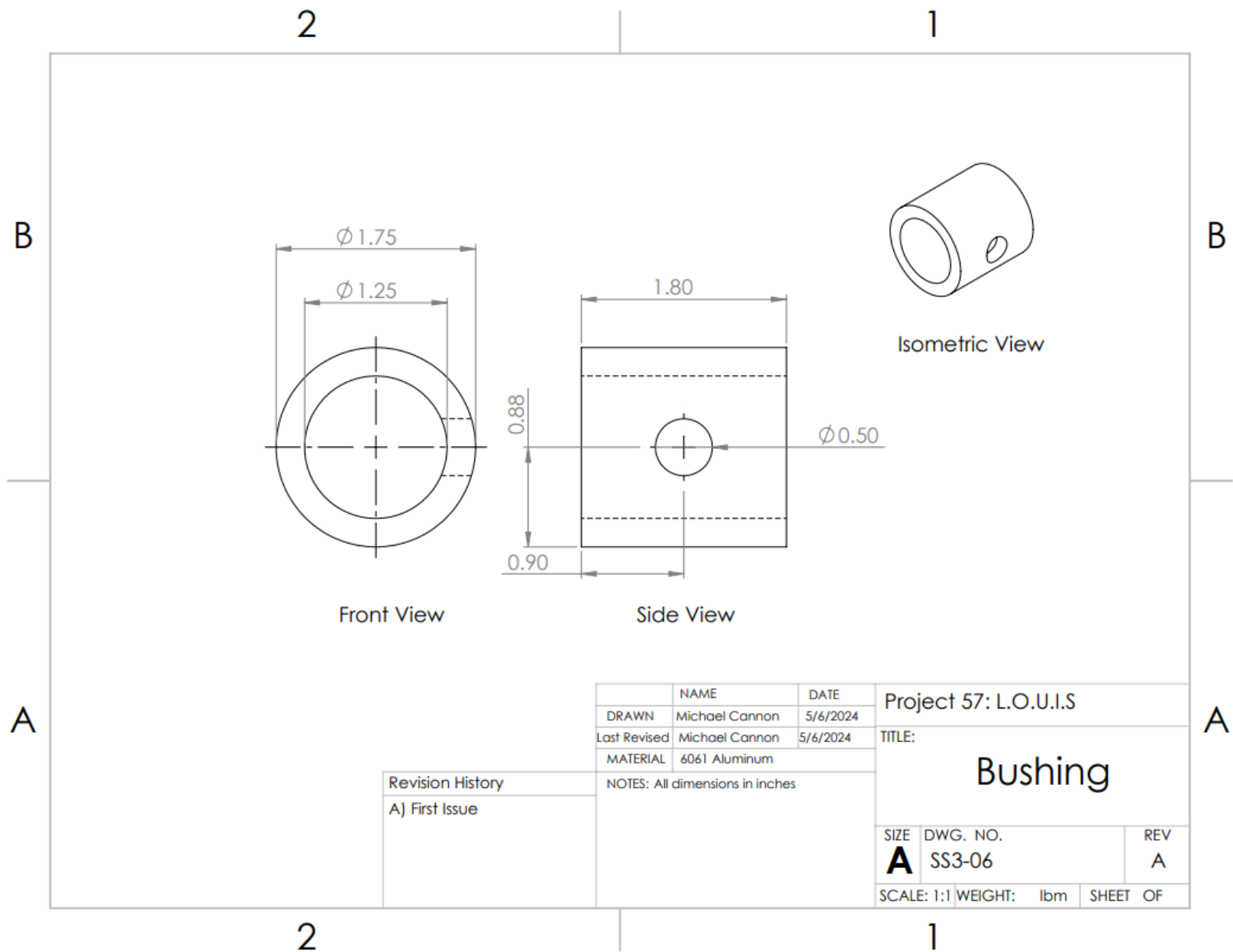


Figure 24: Manufacturing Drawing of part SS3-P6- Bushing

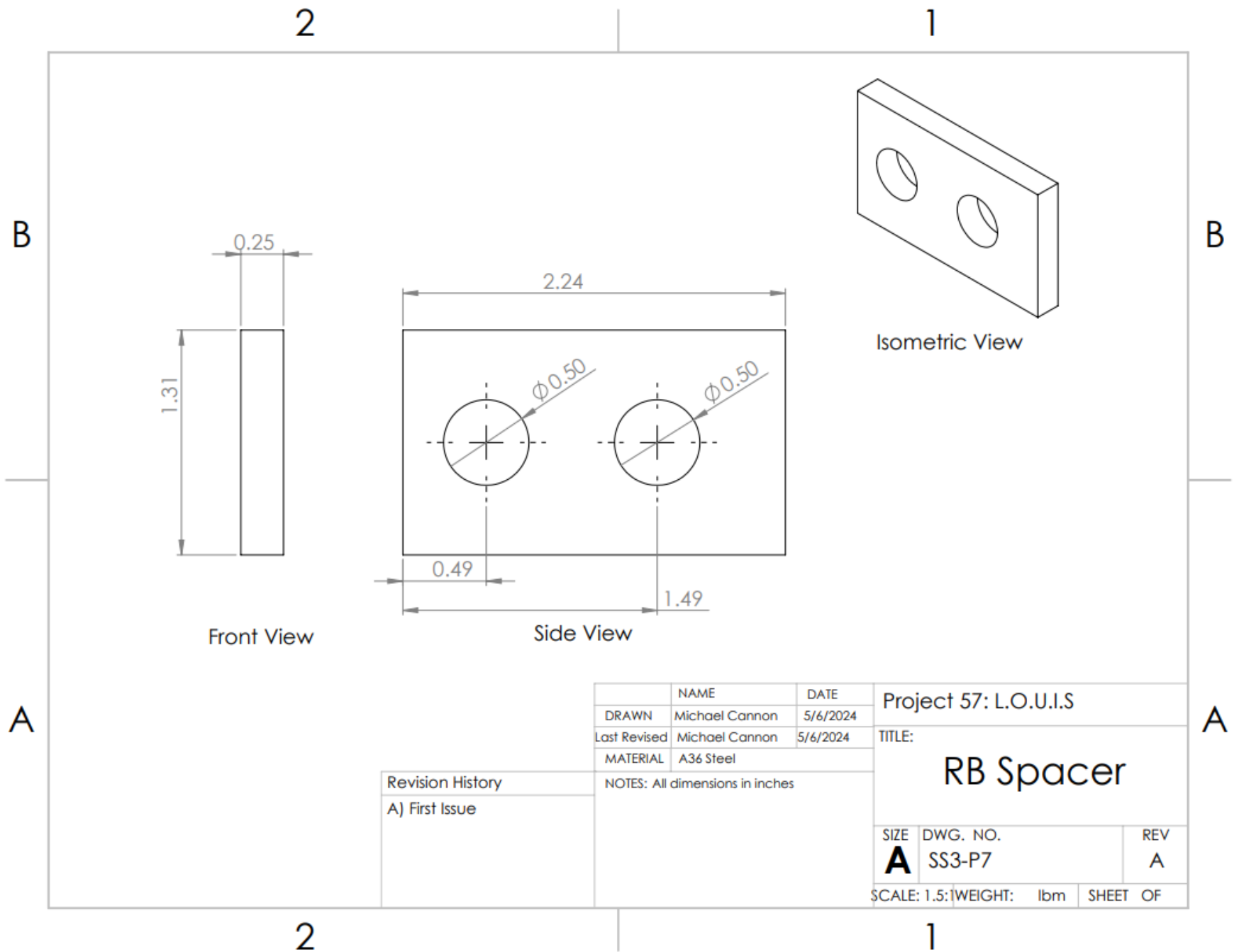


Figure 25: Manufacturing Drawing of part SS3-P7- Rocker-Bogie Spacer

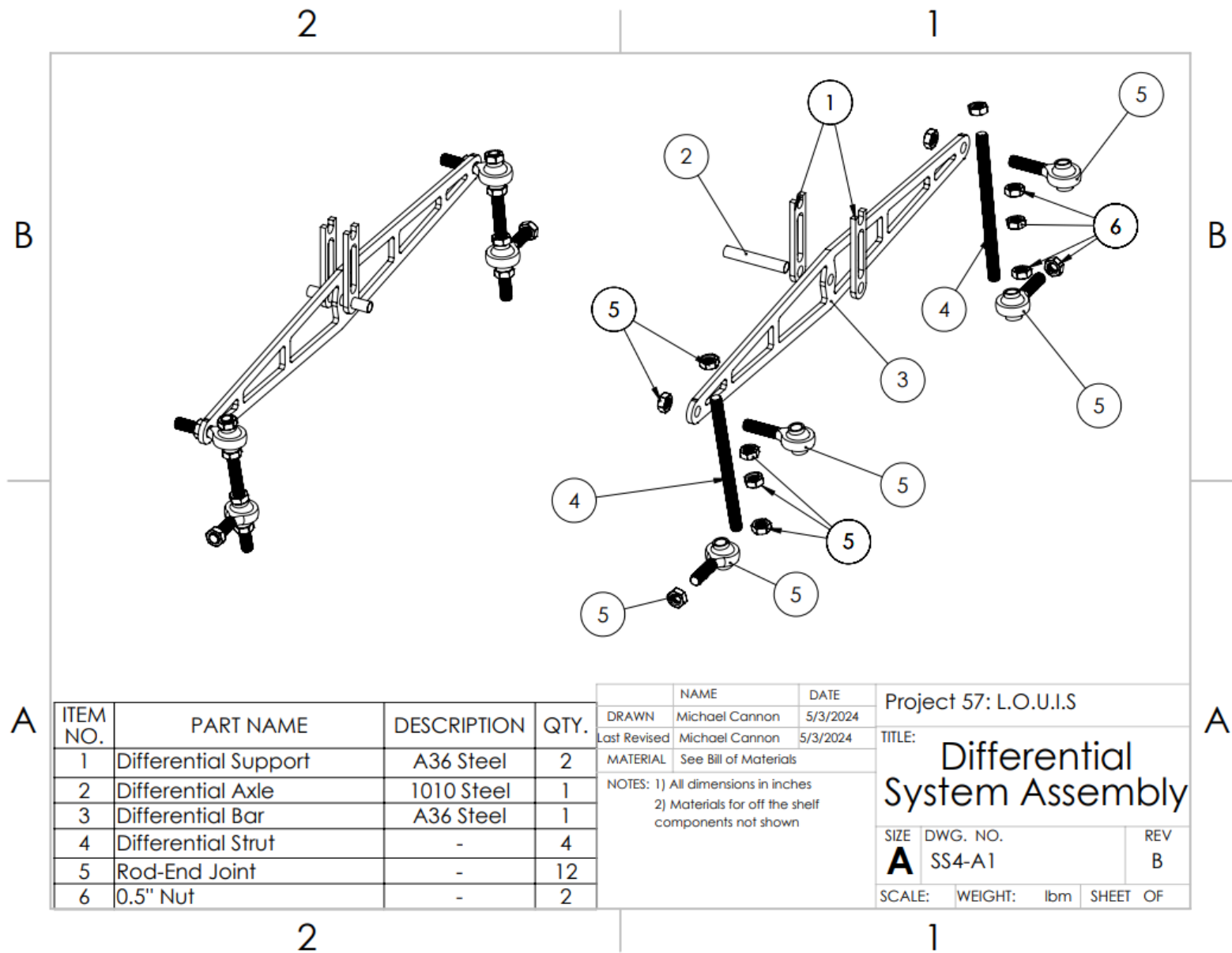


Figure 26: Exploded View Assembly Drawing of Sub-System SS4 – Differential Suspension

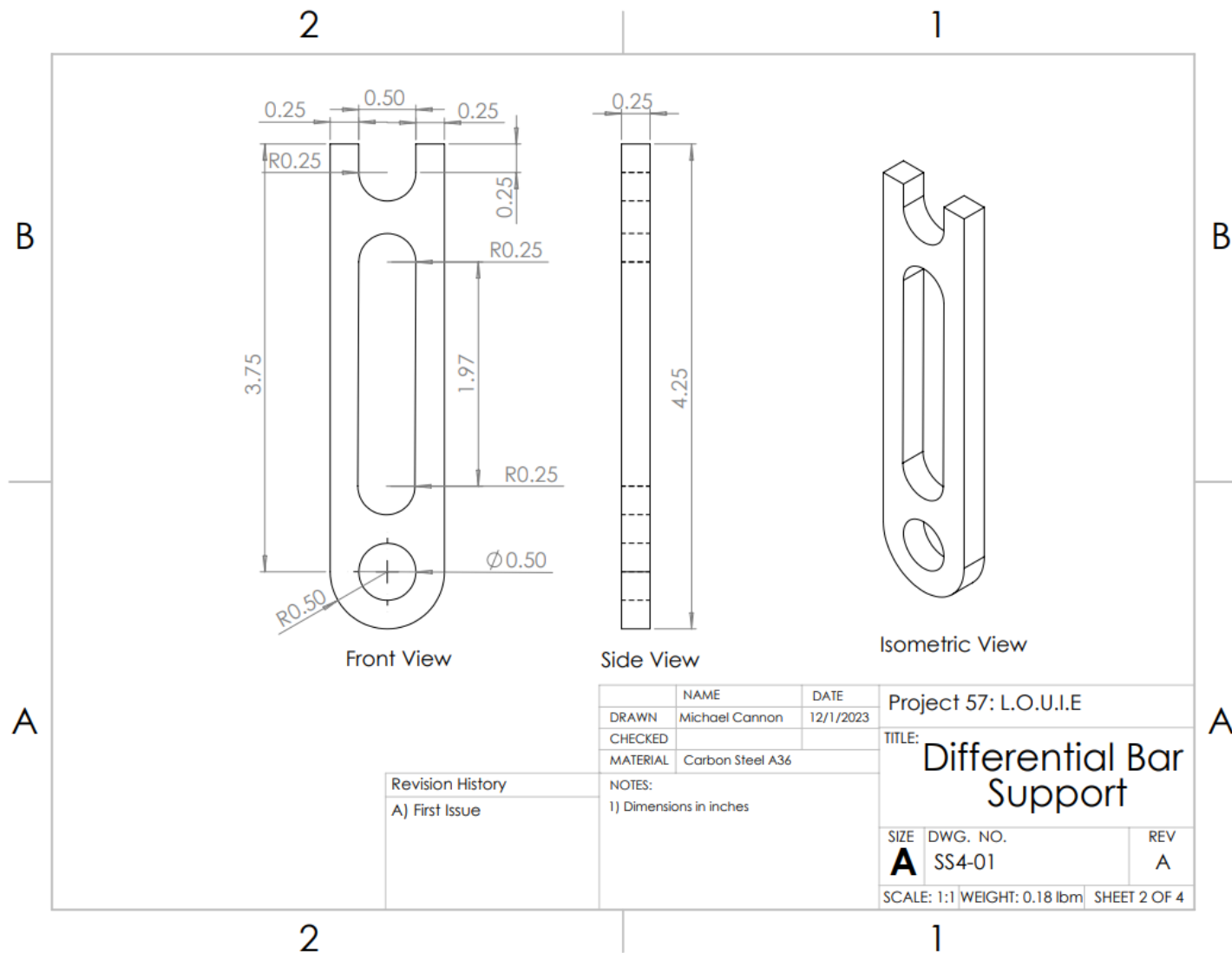


Figure 27: Manufacturing Drawing of part SS4-P1- Differential Support

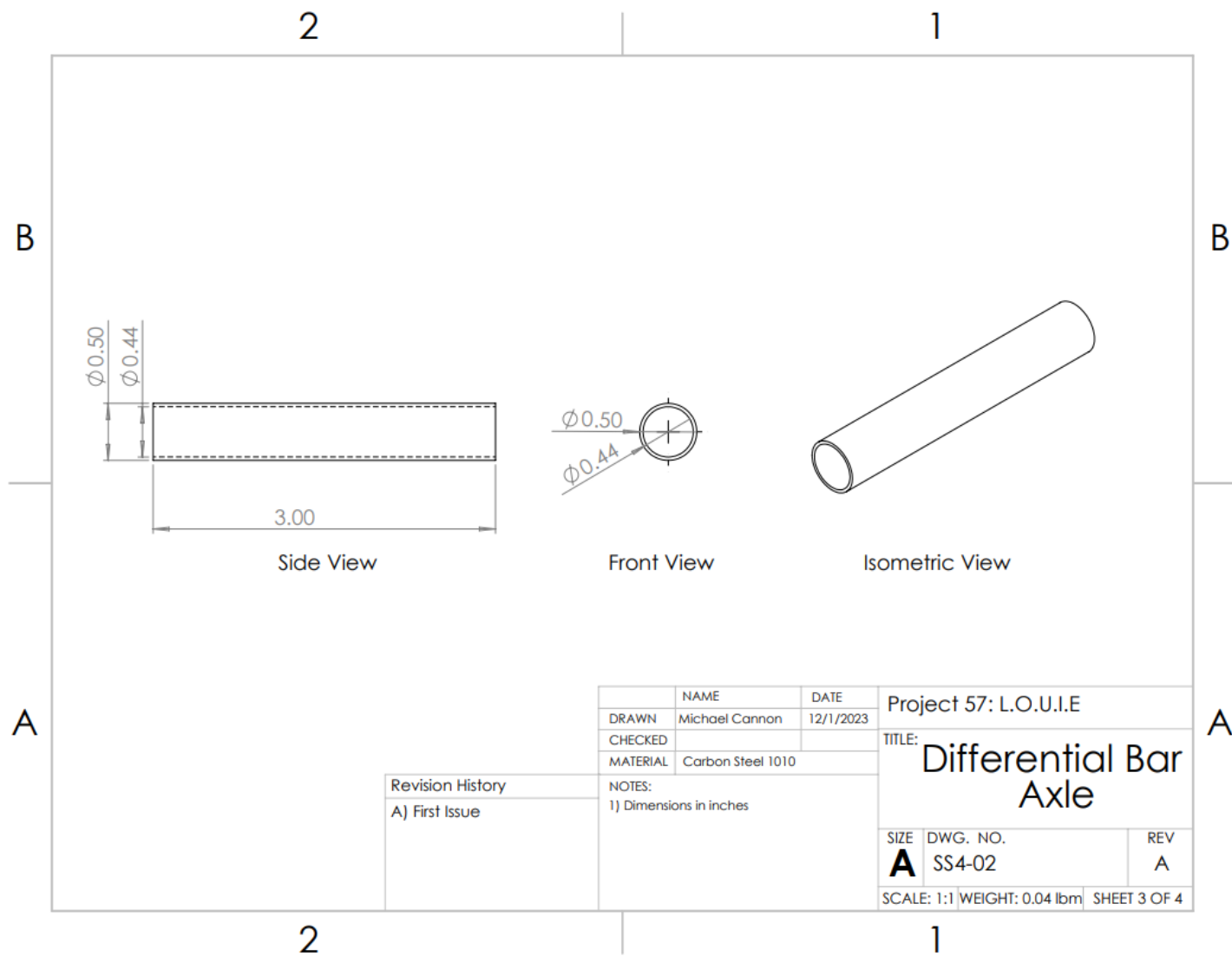


Figure 28: Manufacturing Drawing of part SS4-P2- Differential Axle

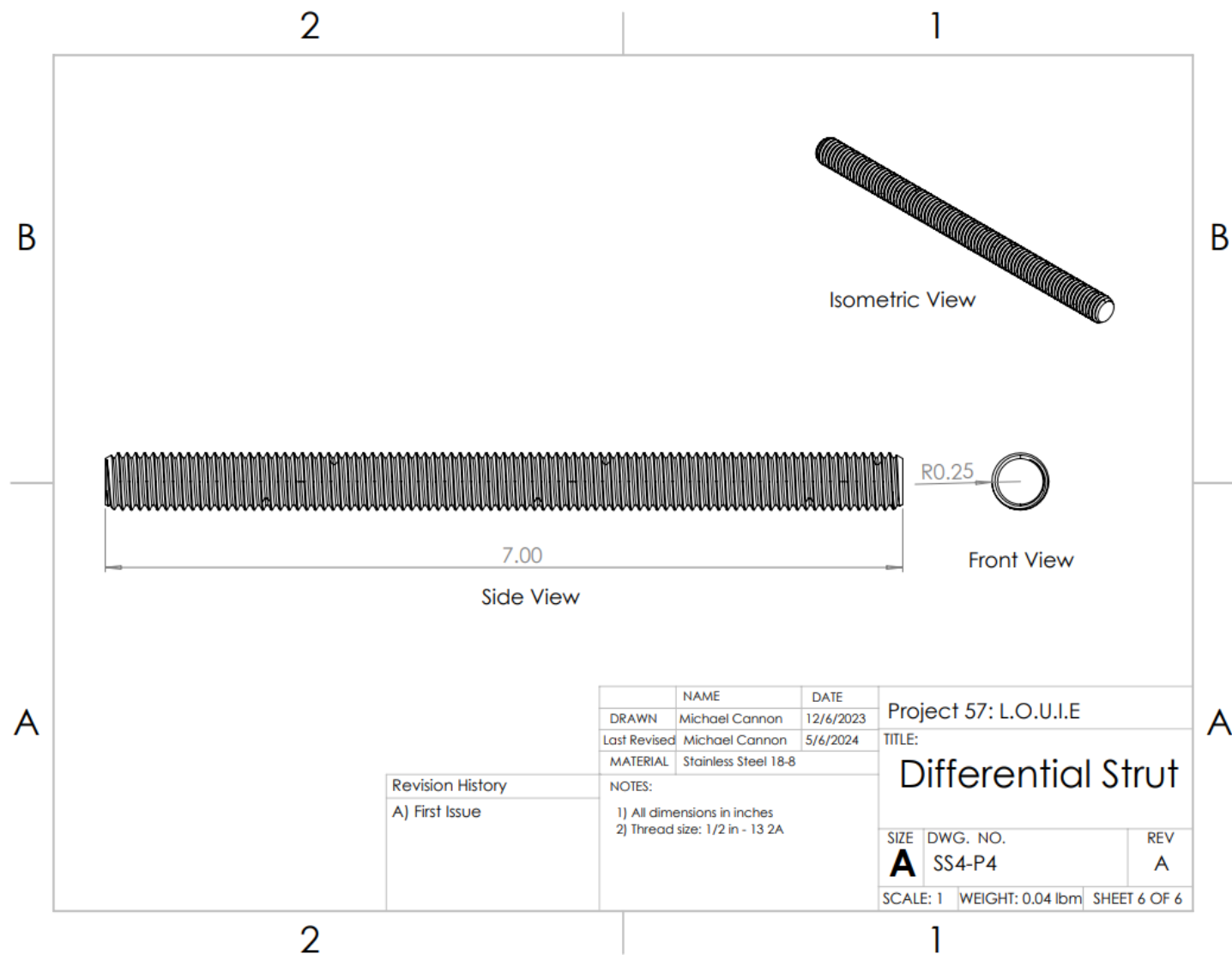
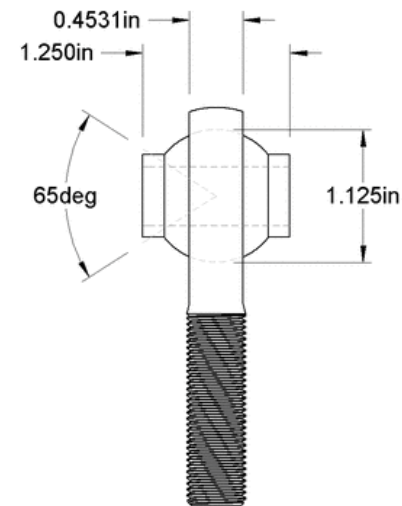
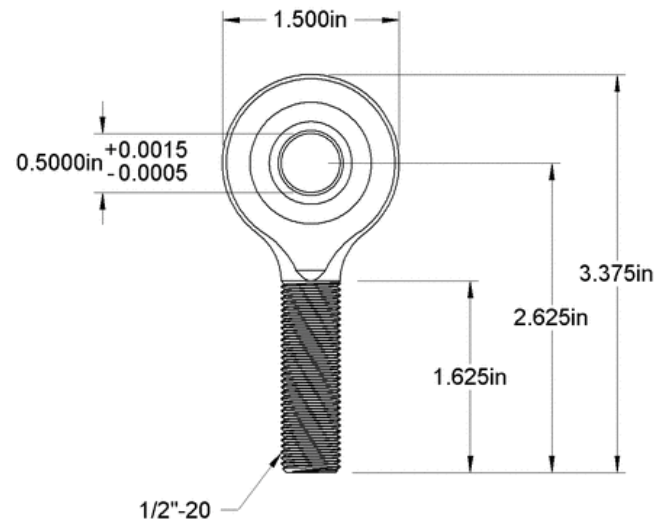


Figure 30: Manufacturing Drawing of part SS4-P4- Differential Strut



Shank Thread Direction: Right Hand


McMASTER-CARR <small>®</small> 	PART NUMBER 6960T251
http://www.mcmaster.com © 2023 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	Super-Swivel Ball Joint Rod End

Figure 31: Manufacturing Drawing of part SS4-P5- Rod-End Joint