

MNB - Procedure for Adirondack Bar Height Chair

Feb. 2020

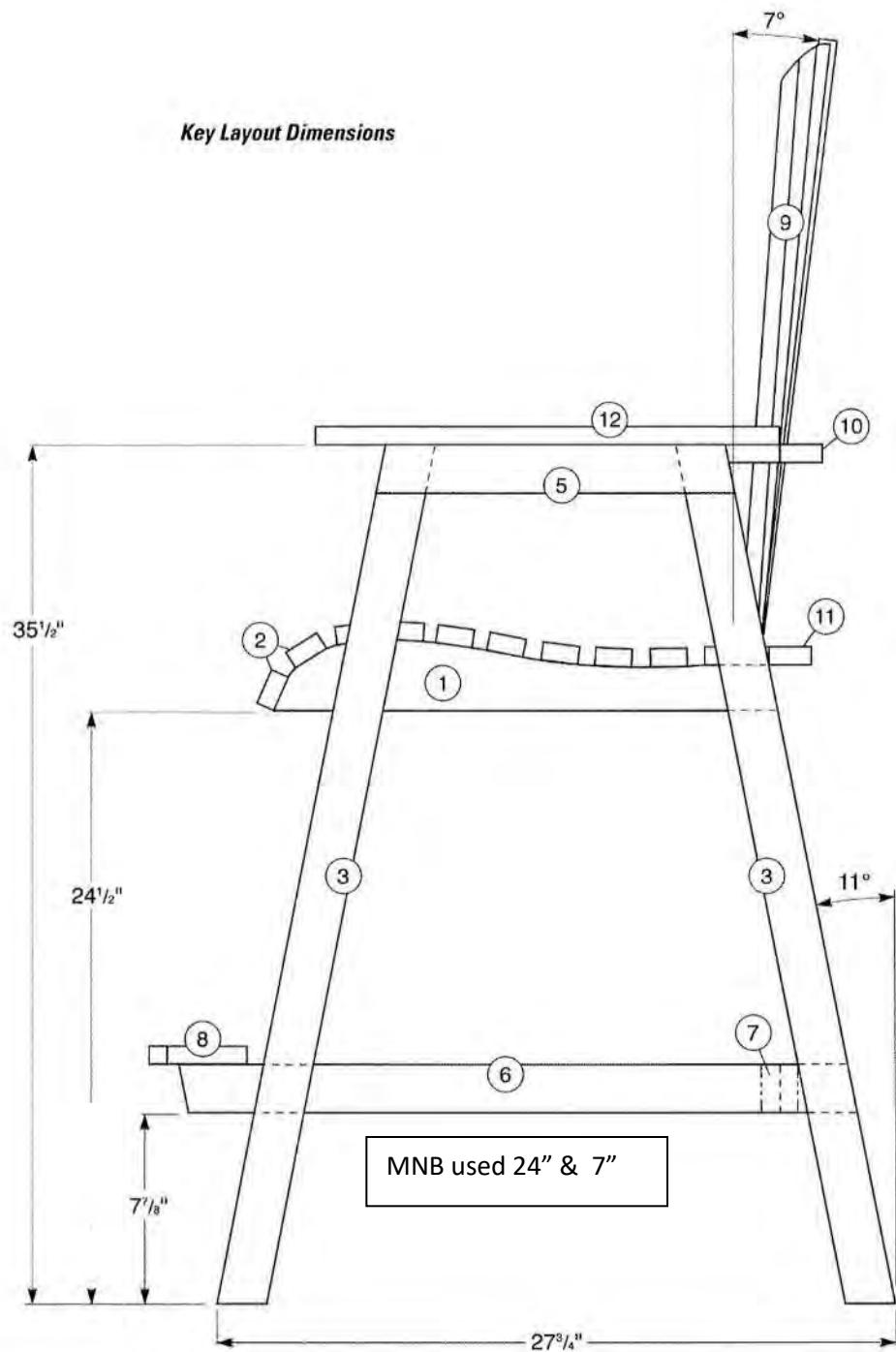


Note: Initial Plans was purchased from Rockler and included paper templets for curve pieces and with the paper templets I made 3/8" plywood templets that I used in these procedures.

Malcolm modified The Rockler plans by using different thickness lumber and adding a cup holder and modification to the erection procedures vs. the Rockler Video (actually, Woodworkers Journal Video) erection procedures.

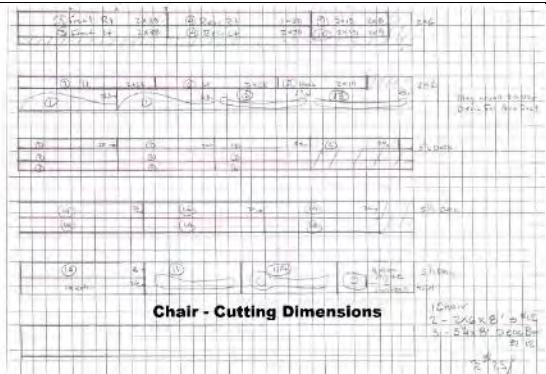
Link to Malcolm's Procedures: https://www.malcolmbeasley.net/uploads/6/0/2/8/60284211/procedure_-_adirondack_bar_height_chair.pdf

Link to Rockler Video (actually *Woodworkers Journal Video*): <https://youtu.be/V2BIBG2mcv4>





4. I wanted to make a chair for Wilma for the ramp so I used some outdoor pine to match the ramp and set it up for a couple of months to dry. If this prototype turn out OK, I may make a set out of some higher quality wood.



5. I made a cutting template for the materials.

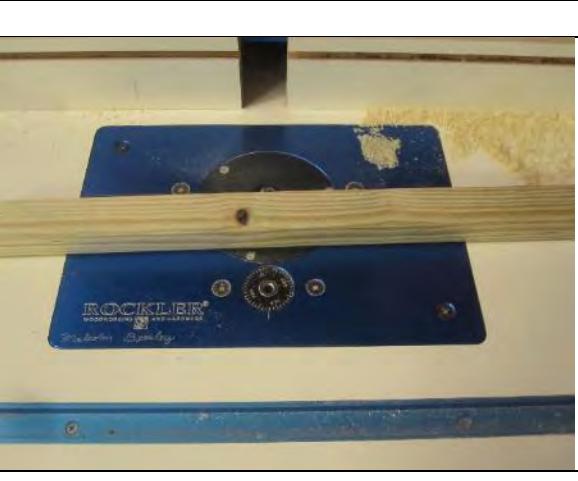


6. Cut Stock to Length.



7. Cut Stock to Width.

	<p>8. Progress work effort after approximately 4 hours of work.</p>
	<p>9. I then trace the templets for the curved pieces onto the stock.</p>
	<p>10. Seat rail sides [Item 1] cut to slightly oversize (approx. 1/16") with my new bandsaw.</p>
	<p>11. Seat rail sides [Item 1] cuts with bandsaw looks good. (This is first cut with bandsaw using the saw blade that came with the saw). Looks Good!</p>

	<p>12. Cut down the remaining templet parts [Item 11, 12 & 13] to slightly oversize with the bandsaw.</p>
	<p>13. With a round over bit on router, round over top of seat 10 slats [Item 2] & ends and bottom edges of seat rail sides.</p>
	<p>14. Apply double stick tape on pattern and press the templet on wood to be trimmed down.</p>
	<p>15. Install $\frac{1}{2}$" flush cutting bearing bit with guide in the router table.</p>

	<p>16 Use the templet and router to cut the curved pieces</p>
	<p>17. Sand chair side rails [Item 2] and top of individual slats with 120 grit sandpaper.</p>
	<p>18. Set stop blocks for 3/4 Inch offset in both directions & drill 5/32" Hole on each end of the 10 seat slats.</p>
	<p>19. Flip and drill 5/32" hole other end of the slats.</p>



20. Change bits and drill countersink in each of the previous drilled holes.



21. Drill pilot hole in seat rail with 5/32" drill bit.



22. Check dimensions for square.



23. Use 1/2 Inch dowel for separator.



24. Drill pilot hole.



25. Add #8 x 2 Inch screw and continue procedure for first 9 Slats. Actually, I installed 10 slats in and had no problem.



26. Chair bottom side view.



27. Chair bottom front view.



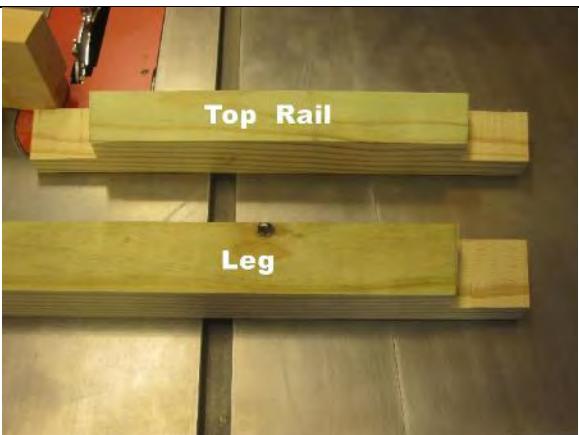
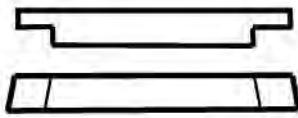
28. Cut legs [Item 3 & 4] and top rail [Item 9] at 11 degrees on miter saw or 79 degrees on table saw. Be carefull when flipping from a +11 degrees to – 11 degrees and make sure legs are cut in the correct directions at 36 -1/8 inches.



29. All 4 legs shown. [Item 3 & 4]



30. Insert dado blade into the table saw and set the blade to half height of legs and at 11 degrees cut both the top rail and Legs.



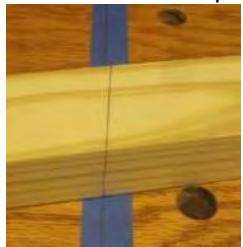
31. Dado set to half height of legs and tot 11 Degrees for both the 4 legs and the 2-top rail. Be careful flipping back & forth from +11 degrees to – 11 degrees.

		32. Apply paper to the tabletop and dry fit parts.
	 Apply EXTERIOR Glue to matching Parts	33. Add EXTERIOR glue to matching parts.
	 Clamp and Let Dry Overnight	34. Clamp and let dry overnight.
		35. Drill and screw (2"x#8 Coated Exterior T-20 Head screws) in bottom cross bracing. These were the screws I had left over from the ramp last year. Note I put the bottom cross bracing up 7" when the plans Rockler used were 7-7/8". Also the plan puts this bottom unit all together as a unit, but I put the parts on individually which I feel was much easier due to the weight of total unit.



36. Mark height of seat rail on table (I used 24" in lieu of 24.5" that Rockler used).

36A. Then transfer to side rails as shown. Keep legs bottom flush with the end of tabletop.



37. Drill and screw (2x8 Coated Exterior T-20 Head) in Top cross bracing.



38. Clamp seat to sides rails.



39. Drill 5/16-inch hole in seat rail as shown and add 5/16" stainless steel bolts. (expensive)

	<p>40. Measure and cut bottom back cross rail (18.5") and drill pilot hole for 3" x #9 coated exterior T-20 head screws which I also had left over from the ramp. Note I also put a cross rail in the front as shown. The Rockler plans did not have this front rail.</p>
	<p>41. Status photo, it's beginning to look like a chair now.</p>
	<p>42. Mark curve for Footrest using clamp and yardstick for proper bend.</p>
	<p>43. Footrest marked with curve.</p>



44. Footrest installed with exterior glue and 3" x #9 coated exterior T-20 head screws.



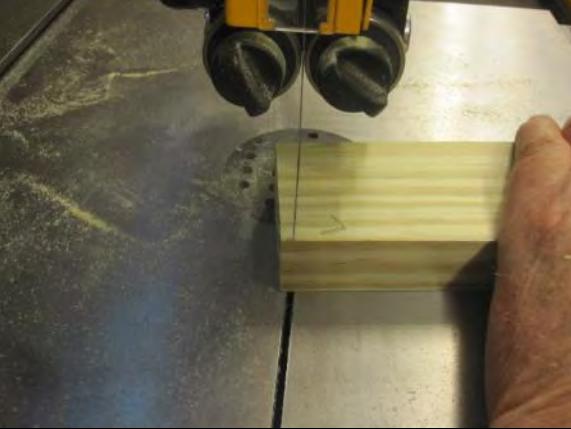
45. Glue cup holder bottom on right arm rail.



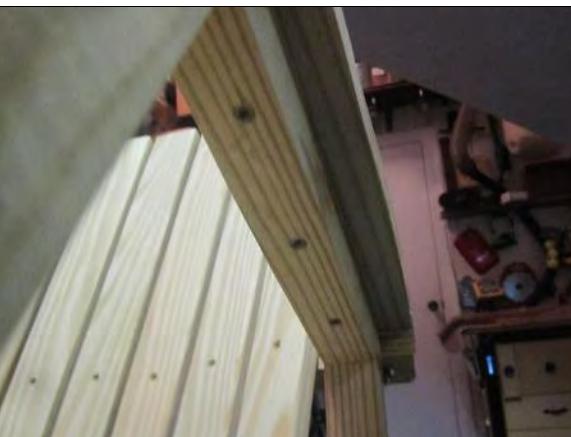
46. I had to build a taper jig to add a taper to each side of the 7 back panels.



47. After cutting the tapers I aligned the back panels [Item 14] and marked a level line along the bottom of the center panel.

		48. With a makeshift trammel set to 21 Inches, I marked the curve for the top of the back panels. [Item 14]
		49. I added panels numbers Rt. To Lt. so I could keep them in correct order.
		50. With the bandsaw I cut off the extra portion on the bottom of the back panels as marked above.
		51. With the bandsaw I cut off the extra at the top of each of the back panels to form the curve as marked above.

		52. Rearrange the back panels again.
		53. On the router table use a round over bit on all edges of the back panels and then sand with 120 grit sandpaper.
		54. Start adding panels in the center, drill pilot hole and add (2"x#8 coated exterior T-20 head screws) then add 5/16" spacer and add next panels to lower back brace until all 7 panels have been added.
		<p>55. Drill hole for 5/16" stainless steel bolt thru [Item 12 &1]</p> <p>55A. Add 3" x# 9 coated exterior T-20 head screws into end of the lower rail.</p> 

	<p>56. Lay arm rest [Item 11] in place over the upper back cross [Item 13] bracing and mark as shown.</p>
	<p>57. Cut off excess upper cross bracing with bandsaw as marked.</p>
	<p>58. Drill pilot hole and add (2"x#8 coated exterior T-20 head screws) using 3/8" dowels for spacing.</p>
	<p>59. Drill pilot holes from underneath arms and add screws as shown. Rockler plans show adding screws from top but I added the 3 - (3"x#9 coated exterior T-20 head screws) from underneath the armrest.</p>

	60. Drill remaining pilot hole and add (2"x#8 coated exterior T-20 head screws) using 3/8" dowels for spacing between panels.
	61. Drill 5/16" hole in the arm rest and upper back rail and add stainless steel bolt.
	62. Back of chair, prior to staining.



63. Front of Chair, prior to staining.



64. Stain with Thompson Clear Water Seal



65. The Queen checking out fit of her new throne.



66 Completed