

## DESIGN

1. Draw chuck sketch on layout sheet.
2. Draw sample sketch.
3. Figure turret positions and cut downs if any.
- 3A. Check hundredths for indexing from chart. (Page 33-34-34A)
4. Draw in circle for cross slide cam.
5. Draw in circle for oversize cam.
6. Locate and draw radial lines covering all hundredths controlling cam operations.
7. Locate all cut downs on lobes requiring them.
8. Locate all throws.
9. Construct arcs on cam lobes.
10. Construct indexing positions.
11. Construct rises and drops from idling positions to cutting operations.
12. Numerate all hundredths.
13. Dimensions cut downs (in fractions).
14. Dimension throws (in decimals).
15. Fill in turret adjustment position.
16. Fill in cam markings, gears and production.
17. Mark operation on each lobe.
18. Figure and fill in millings or advance for each lobe.
19. List order of operations and all tools in Order of Operations column.
20. Fill in corrected revolutions for each operation.
21. Correct all feeds and surface feet and fill in proper columns.
22. List tool symbols and name of tools furnished in Furnished column.
23. List tool symbols and name of tools used in Used column.
24. Fill in foot note.