

**Exercise 12-1** Complete the plan for each room by adding doors, windows, and fixtures. As you work, remember the guidelines for designing bathrooms:

- Water closet clearances – 15" minimum for sides and 18" for front
- Tub clearance – 30" for sides
- Lavatory clearances – 18" for sides
- Standard tub lengths – 5'-0", 5'-6", 6'-0"
- Minimum bathroom door width – 2'-2"

SCALE: 1/4" = 1'-0"

