Preliminary design

Bubble diagrams, Conceptual diagrams, 3-D drawings

Sharing in class

- Urban chic
- Versatility on architectural and non-architectural elements
- How to make a room into a multipurpose use space?
- How non-architectural elements can be used in multipurpose way?
- Analysis a precedent study about a tiny house
- What are these spaces? What are their functions?
  - Main room
  - Kitchenette
  - Eating area
  - Seating area
  - Bathroom
  - Closet area
  - Bedroom

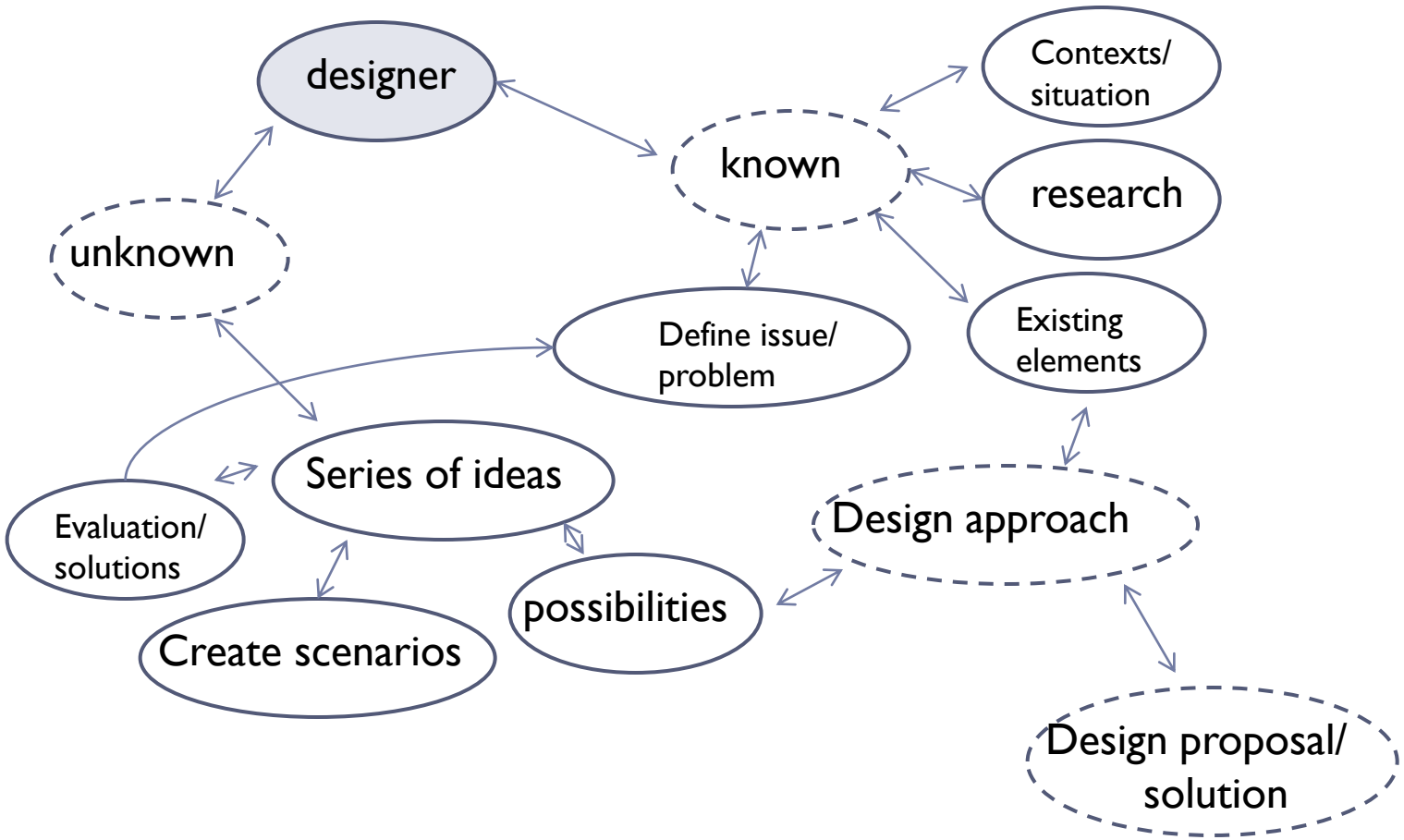
Exercise – Analysis the design issues

1. Design problems – identify the issues
   - Provide all written information in your sketch book
2. Design situations – identify the issues
   - Provide all written information in your sketch book
3. Draw some conceptual diagrams in your sketch book
   - Responding to the design problems and solutions
   - Draw the diagram as shown in your sketch book

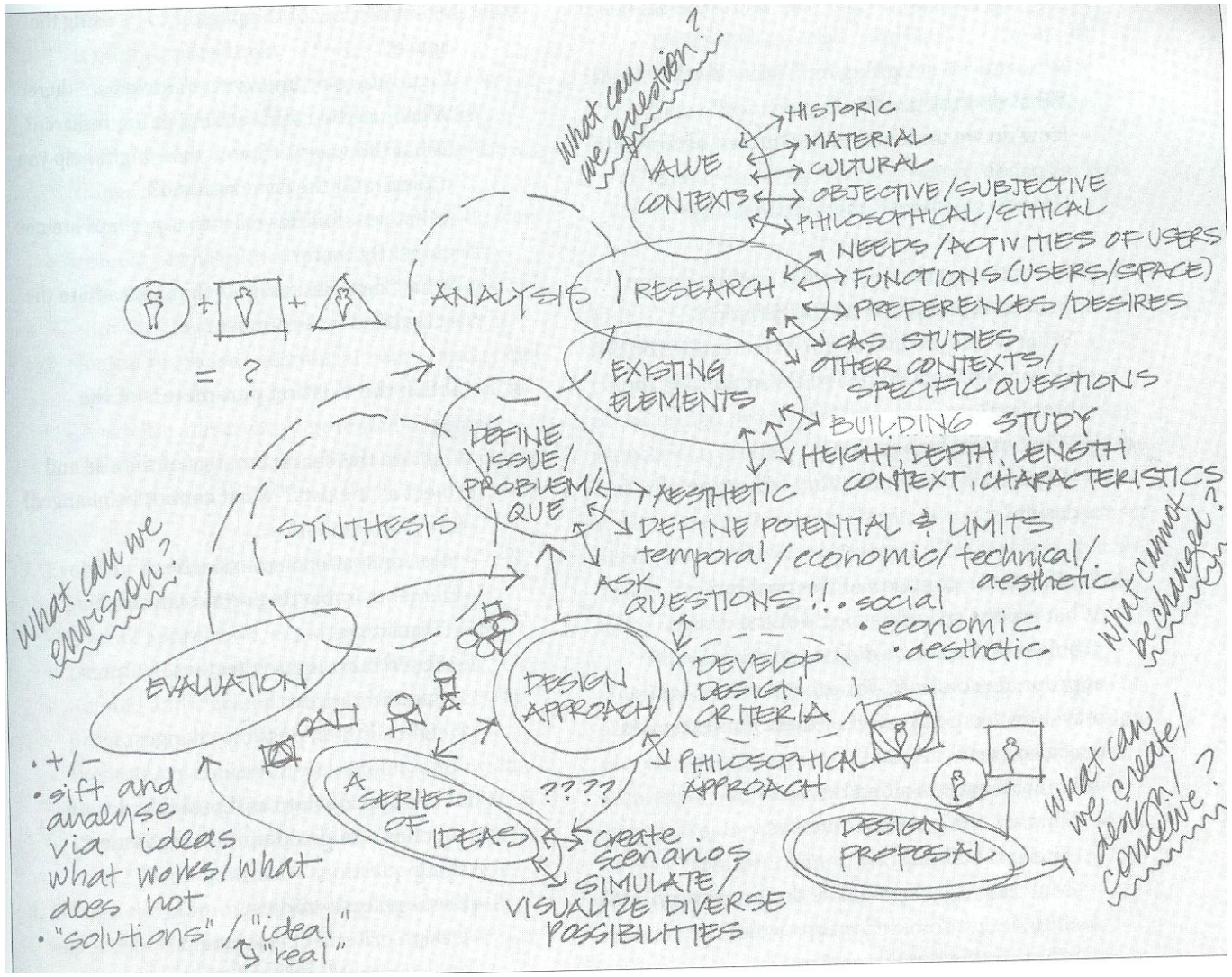
- Design problems – identify the issues
  - To fit the propose
  - To accommodate activities
  - To solve a problem in a new way
  - To create something new or innovative
  - To use spaces and put spaces together differently
  - To understand and see in different way

- Design situations – knowing and understanding
- Need to understand
  - Knowing the constraints, problems
  - Client and activities of the space
  - Goals of user
  - Desires and needs of the user
  - Nature of space
  - Intention for the space and its user

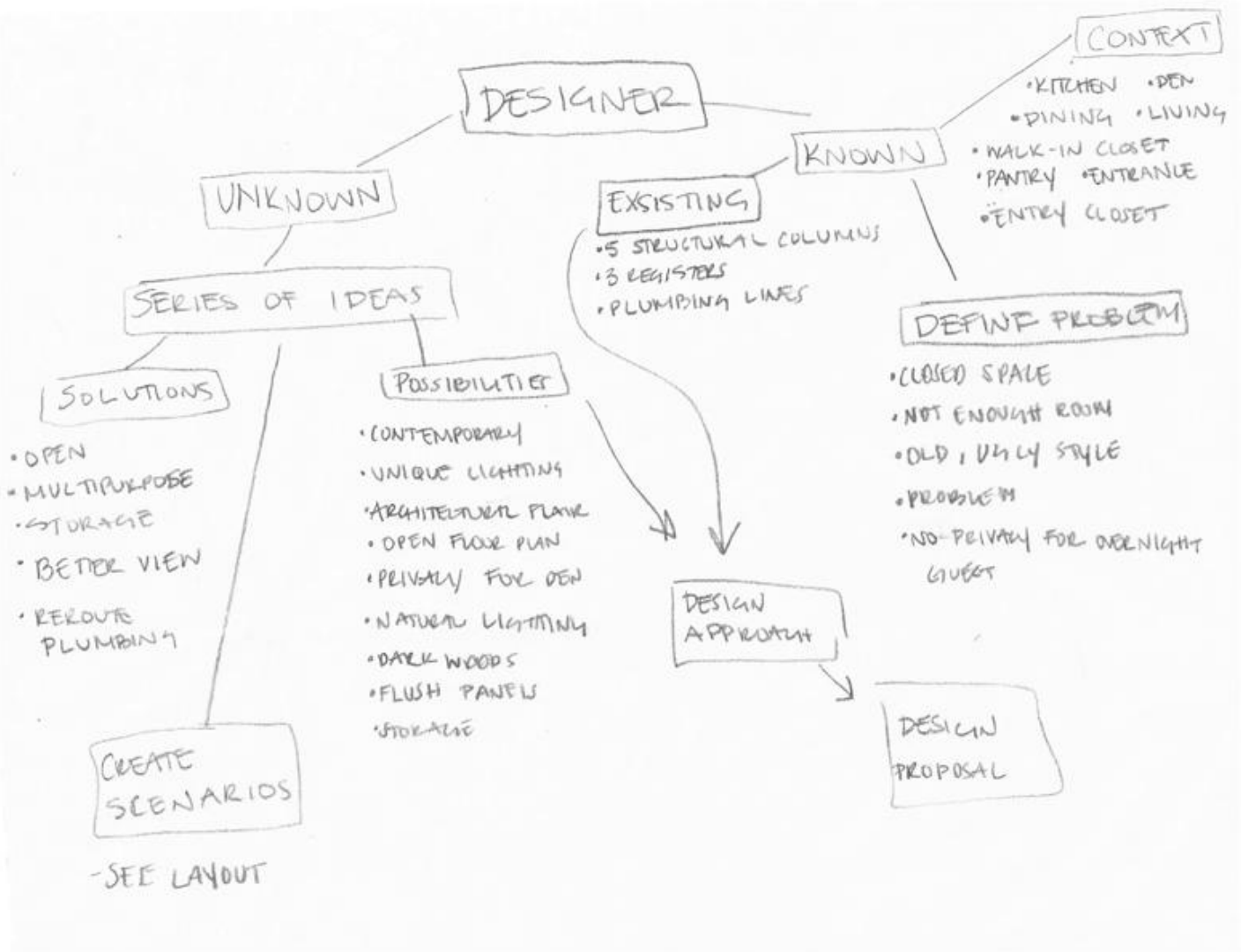
Exercise – to draw and analysis the design issues



Analysis #1


what can we question?
VALUE CONTEXTS
HISTORIC
MATERIAL
CULTURAL
OBJECTIVE/SUBJECTIVE
PHILOSOPHICAL/ETHICAL
ANALYSIS
RESEARCH
NEEDS/ACTIVITIES OF USERS
FUNCTIONS (USERS/SPACE)
PREFERENCES/DESIRES
CAS STUDIES
OTHER CONTEXTS/
SPECIFIC QUESTIONS
EXISTING ELEMENTS
BUILDING STUDY
HEIGHT, DEPTH, LENGTH
CONTEXT, CHARACTERISTICS
= ?
DEFINE ISSUE/ PROBLEM/ QUE
AESTHETIC
DEFINE POTENTIAL & LIMITS
temporal/economic/technical/
aesthetic
what cannot be changed?
SYNTHESIS
what can we envision?
ASK QUESTIONS!!
• social
• economic
• aesthetic
EVALUATION
DESIGN APPROACH
DEVELOP DESIGN CRITERIA
PHILOSOPHICAL APPROACH
• +/−
• sift and analyse via ideas what works/what does not
• "solutions"/"ideal" "real"
A SERIES OF IDEAS
????
create scenarios
SIMULATE/ VISUALIZE DIVERSE POSSIBILITIES
DESIGN PROPOSAL
what can we create/design/conceive?

Analysis #2

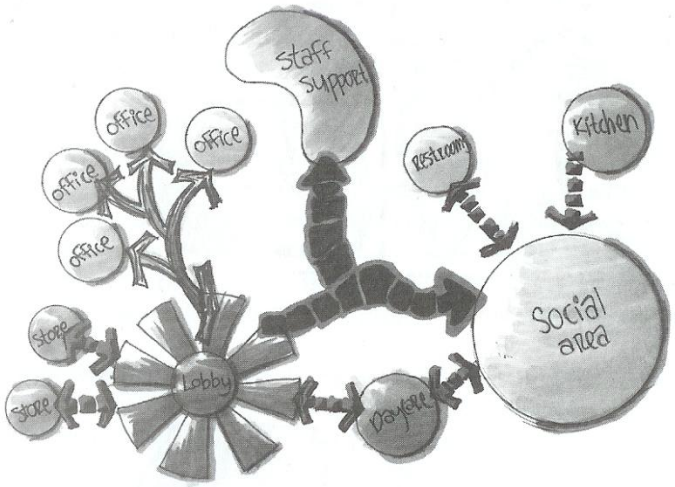

DESIGNER
UNKNOWN
KNOWN
CONTEXT
•KITCHEN •DEN
•DINING •LIVING
•WALK-IN CLOSET
•PANTRY •ENTRANCE
•ENTRY CLOSET
EXSISTING
•5 STRUCTURAL COLUMNS
•3 REGISTERS
•PLUMBING LINES
DEFINE PROBLEM
•CLOSED SPACE
•NOT ENOUGH ROOM
•OLD, UGLY STYLE
•PROBLEM
•NO PRIVACY FOR OVERNIGHT GUEST
SERIES OF IDEAS
SOLUTIONS
•OPEN
•MULTIPURPOSE
•STORAGE
•BETTER VIEW
•REROUTE PLUMBING
POSSIBILITIES
•CONTEMPORARY
•UNIQUE LIGHTING
•ARCHITECTURAL PLANK
•OPEN FLOOR PLAN
•PRIVACY FOR DEN
•NATURAL LIGHTING
•DARK WOODS
•FLUSH PANELS
•STORAGE
DESIGN APPROACH
DESIGN PROPOSAL
CREATE SCENARIOS
-SEE LAYOUT

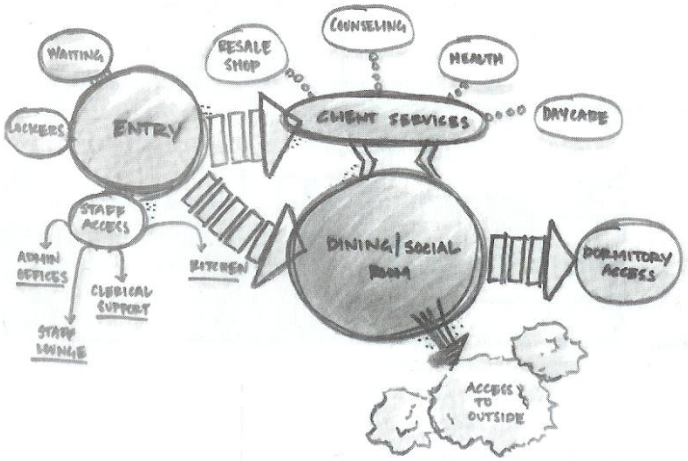
Step 1 - Generating alternatives bubble diagrams

- Come out with 5 bubble diagrams based on your tiny house plan
  - Show circulation routes and views

Show good bubble diagram graphics

- Take pride in your diagram graphics
- Pay attention to the quality of the shapes you draw
- You can use shading and texture
  - To show a sense of hierarchy





Step 2 - Generating alternatives block diagrams

- Block out all 5 bubble diagrams with blocks
  - Show circulation routes and views
  - Show solid line for partition and dashed line for open space (window, door, low partition, opening)
  - Pay attention to details and line weights

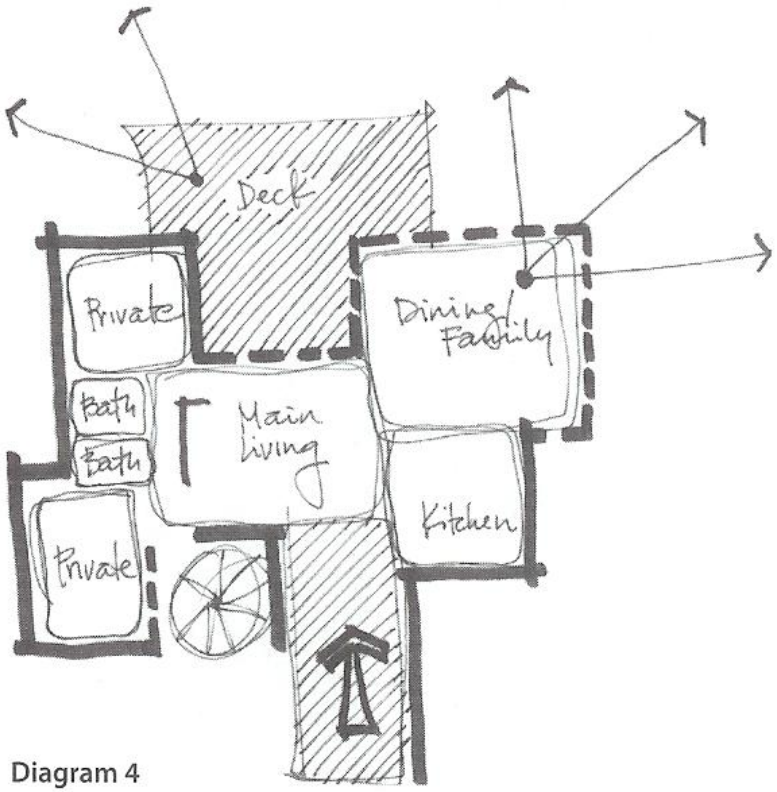
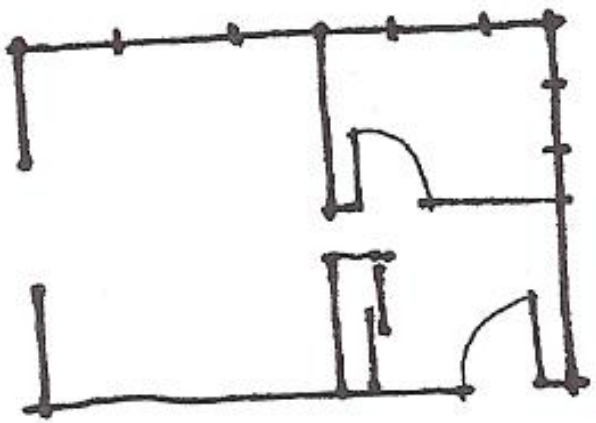
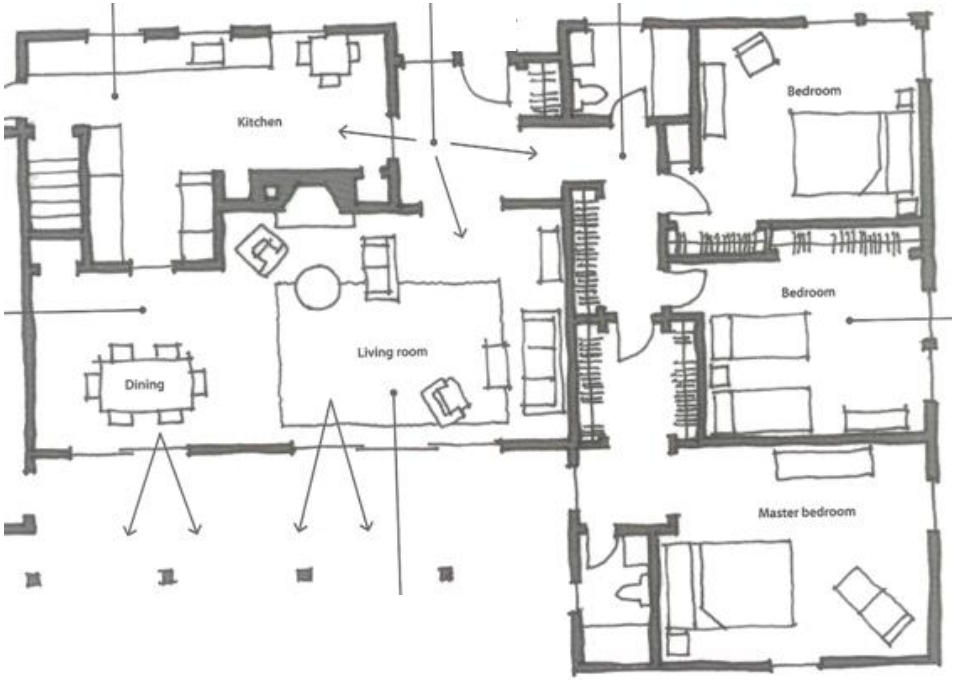


Diagram 4

Step 3 - Generating alternatives loose plans

- Turn in all 5 block diagrams into loose plans
  - Show windows, doors, and partitions
  - Show any built-ins, if possible
  - Pay attention to details and line weights



Final step - Generating alternatives preliminary plans

- Turn in all 5 loose plans into preliminary plans
  - to scale/eyeball to scale
- Hand-sketched only
  - Show wall thickness, architectural/non-architectural elements
  - Floor materials and generic furniture
  - Need to accommodate with verbal description
  - Show all built-ins
  - Pay attention to details and line weights