

## **APPENDIX C**

### **DESIGN EXPERIMENT QUESTIONNAIRE**

## Consent and Release Form

### Study of Design Drawing

I understand the purpose of this experiment is to study design drawing. The experiment will take about half an hour.

I understand I will be given a design brief to make conceptual designs. I understand I will be asked to “think out loud” as I design.

I understand that the study involves research and that I may make inquiries concerning this procedure.

I understand that my participation in the research is completely voluntary and I am free to withdraw my consent at any time and to discontinue participation in the project.

I have read and understood the procedures involved in the research and hereby consent to volunteer to participate in this study.

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Date

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Participant's Signature

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Participant's Name

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Investigator's Signature

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Investigator's Name

**Please tell us about yourself.**

Participant ID: \_\_\_\_\_

Participant Name: \_\_\_\_\_ Age: \_\_\_\_\_ Gender: \_\_\_\_\_

Occupation (Job Title): \_\_\_\_\_

1. Briefly describe your architecture design experience:

2. How many years of education have you completed?

College (# of years) \_\_\_\_\_ Graduate School (# of years) \_\_\_\_\_

3. How often do you use freehand drawing for architectural design?

Never |——|——|——|——| All the time

4. How often do you use freehand drawing to communicate with another designer?

Never |——|——|——|——| All the time

## **Design Brief**

An architecture firm just rented a one story warehouse to be its new office space. The space is 70' ft x 25', running East-West the long way. The west side entrance faces a main street. All sides of the space may have openings except the south side, which connects to another building. This firm currently has 1 chief architect, 3 designers, 3 CAD operators, 2 contract draftsmen, a secretary and about 1-2 student interns.

The office will be designed to have, besides the area for work groups of designers, CAD specialists and draftsman, a meeting room, a small kitchenette, a bathroom, and a chief architect's private office, a secretary - receptionist - general affairs section, storage space, printing and plotting area, and space for student interns.

Flexible functional combinations may suit the occupants' various needs. For example, a meeting area can also serve to display past design works, a storage space may include a small reference library, or product catalogue and material samples, and the print room could include Xerox, blueprint and computer plotting machines, etc.

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### **Task 1**

Please take no more than 10 minutes to make a conceptual, schematic design for the above program. Please pay particular attention on zoning arrangements. For example, consider where to put the lobby, chief architect's office, meeting room, and the different work group spaces, etc.

Please continue to the following pages. Thank you!

**Task 2**

Please start with a new sheet of tracing paper. This time, please pay particular attention to lighting issues. For example, where should the window be on the wall? And, perhaps introduce skylight into the office if plausible?

Please take no more than 5 minutes to complete this task. Thank you!

**Task 3**

Please start with a new sheet of tracing paper. This time, please focus on the visibility and privacy concerns between different spaces.

For example, consider making each work group space commands a fine view to the exterior, and an easy access to the meeting area.

Please take no more than 5 minutes to complete this task. Thank you!

**Task 4**

Please start with a new sheet of tracing paper. This time, please make sure your meeting room is large enough to accommodate the chief architect's favorite meeting table (4 ft x 10 ft). Also, please make sure the designers' work space would have at least 800 sq. ft.

Please take no more than 5 minutes to complete this task.

This is the last task. Thank you! Please turn to next page and give us your comments.

**Please tell us how you feel about this experiment.**

Participant ID: \_\_\_\_\_

## 1. How clearly were the tasks defined?

Task 1      Unclearly |-----|-----|-----|-----| Clearly

Task 2      Unclearly |-----|-----|-----|-----| Clearly

Task 3      Unclearly |-----|-----|-----|-----| Clearly

Task 4      Unclearly |-----|-----|-----|-----| Clearly

## 2. How difficult to perform the tasks?

Task 1      Difficult |-----|-----|-----|-----| Easy

Task 2      Difficult |-----|-----|-----|-----| Easy

Task 3      Difficult |-----|-----|-----|-----| Easy

Task 4      Difficult |-----|-----|-----|-----| Easy

## 3. How often do you use a computer for architecturally related work? What do you use?

Never |-----|-----|-----|-----| All the time

4. Do you think you have your personalized symbols and short hands for designing? What are they?

5. Would you like a computer program to have freehand sketching abilities? What should it do?

6. Suggestions and comments for the experiment? Thank you!