

LARC 504-1 Sustainable Urban Design Studio

Getting to Minus 80. The Vancouver Streetcar City. 2050 and Beyond

Assignment Two: Chapter 2 City Form and Energy Use
Chapter 3 City Form and Demographic Shift
Chapter 4 City Form and City Place

Project Issued: Monday September 27

Project Review: Monday October 18

Overview

This is the second of our efforts to build a base for the urban design for Vancouver 2050, and to provide additional chapters for the final publication. This is the last analysis project before we get down to the business of designing the city. But before we do that we have to try to understand some complexities, and to simplify them into a form that we can use. As with previous work, our ambitions are made easier to achieve with the structure of the seven rules provided in the “Seven Rules for Sustainable Communities”. The context for our work is an “experiment” to see how well they apply to the City of Vancouver. This makes the challenge easier. Indeed it makes it even possible.

This time you will be loosely grouped in teams but will have entire responsibility for two pages in the book. Now that we know how to do it, this should be much easier. The three teams correspond to the next three chapters in the book.

SECTION TITLES FOR YOUR SECTION ARE INDICATED IN THE **BOLD** TYPE!

Chapter 2 City Form and Energy Use

- 2.1 **City Form and Energy Use at the District and Regional Scale.** How is energy use influenced by city form at the district and regional scale.
- 2.2. **City Form and Building Energy Use at the Neighborhood, Block and Parcel Scale.** The relationship between building form energy use and block, parcel, and district configuration.
- 2.3. **City Form and Energy use for Transportation.** How can city form play a role in the radical shift away from energy intensive modes to low energy modes of travel?
- 2.4 **The Possibilities for District Scale Infrastructure** (heat, sewer, storm, integrated systems)

Chapter 3 City Form and Demographic Shift

- 3.1 **City Form and Population Form.** Basic demographic trends and how they influence city form in the past
- 3.2 **Vancouver 2050, a City With Only Elderly?** What does the frightening increase in aged population mean for the future of the city?
- 3.3 **Vancouver 2050, a City Without Children?** What should we do to insure that there will be enough young people in the city after 2050 to carry on? How will parents afford housing? What housing types should be used? What will happen to all of those single family homes if they are not affordable for families?

- 3.4 **Goods Movement in the Minus 80 City.** How will distribution systems adapt to new demographic, housing, and energy circumstances.
- 3.5 **Case Studies: Housing Forms for the Families' of the Future** (this means you guys!).
- 3.6 **Case Studies: Housing Forms for Elderly of the Future** (this means you guys!!)

Chapter 4 City Form and City Place.

- 4.1 **The Basic Phenomenology and Morphology of Vancouver as Experienced Place.**
- 4.2 Case Study Locations. Corridors. **The Phenomenology and Morphology of Place on Corridors**
- 4.3 Case Study Locations. Nodes. **The Phenomenology and Morphology of Place in Nodes.**
- 4.4 **Vancouver - A Mobility City or an Exchange City?** Which city should Vancouver strive to be, exchange or mobility. Case study examples of comparative cities form the basis for this work. How then can we program for this.
- 4.5. **Vancouver - Can Place make Attachment?** What long term strategies are required to achieve a sense of ownership ("Pride of Place")? Can local identity influence civic participation, advocacy and the investment of generational social capital? Can being a "good" city to "attach" to partially overcome the downsides of Vancouver?
- 4.6 **The Iconography and Volumetrics of Identity.** What makes an urban place a "place".
- 4.7 **Lifestyle, Personal Time, and Urban Space.** How will changing trends in how we use space, and the time we have available for using space, affect our need for and sense of "place". How is place already changing as a result of these trends?

Format

Each student will do one two-page section. Students will choose their top three topics, choosing from at least two chapter groups. It is hoped that all students will get one of their top three choices, although it can't be guaranteed.

Chapter teams will collaborate to share information and prevent excessive overlap. All students are required to adhere to a uniform format used in the first assignment. The Adobe Illustrator page template is available for download on the class website, accessible at: <http://www.urbanstudio.sala.ubc.ca/>

Each student will be responsible for producing two pages with:

1. A minimum of 500 words, a maximum of 800 words, descriptive text.
2. A minimum of two, a maximum of five, illustrations (photos, graphs, drawings, or charts) each with their own captions. Captions should be a minimum of 40 words a maximum of 100 words.