

First Nation Remote Housing Design Charrette.

Sioux Lookout – Sept 15th – 16th.



INDEPENDENT FIRST NATIONS ALLIANCE

What is a Charrette?

- **Creative environment** bringing together people with diverse skills, expertise and personal interest.
- Must have a **goal** or an **objective**.
- It is a **process** that defines the problem and identifies a solution

Planning a Charrette

- Kick off meeting to determine interest
- Community support
- Community leader
- Steering Committee
 - Raise funds, find partners
 - Define the objective statement
 - Develop the agenda
 - Identify community support
 - Lead the workshop

Steering Committee

- CMHC
- Windigo First Nations Council
- Shibogama Technical Services
- Independent First Nations Alliance IFNA

Major Sponsor – Health Canada.



Charrette Objective

- **"We want to produce one or two practical house design floor plans including specifications that will meet the environmental conditions and lifestyle needs for the north".**

The Process – The Steps

- Identify the issues, the gaps and the barriers.
 - The problem
- Identify and prioritize the needs
 - Performance
 - Function & durability
 - Cultural values
- Develop solutions

Remote Housing Design Charrette

- Two Day Agenda
- Speakers
- Work in smaller selective groups & as one group.
- Develop recommendations and solutions
- Post Charrette
 - Develop plans and specifications

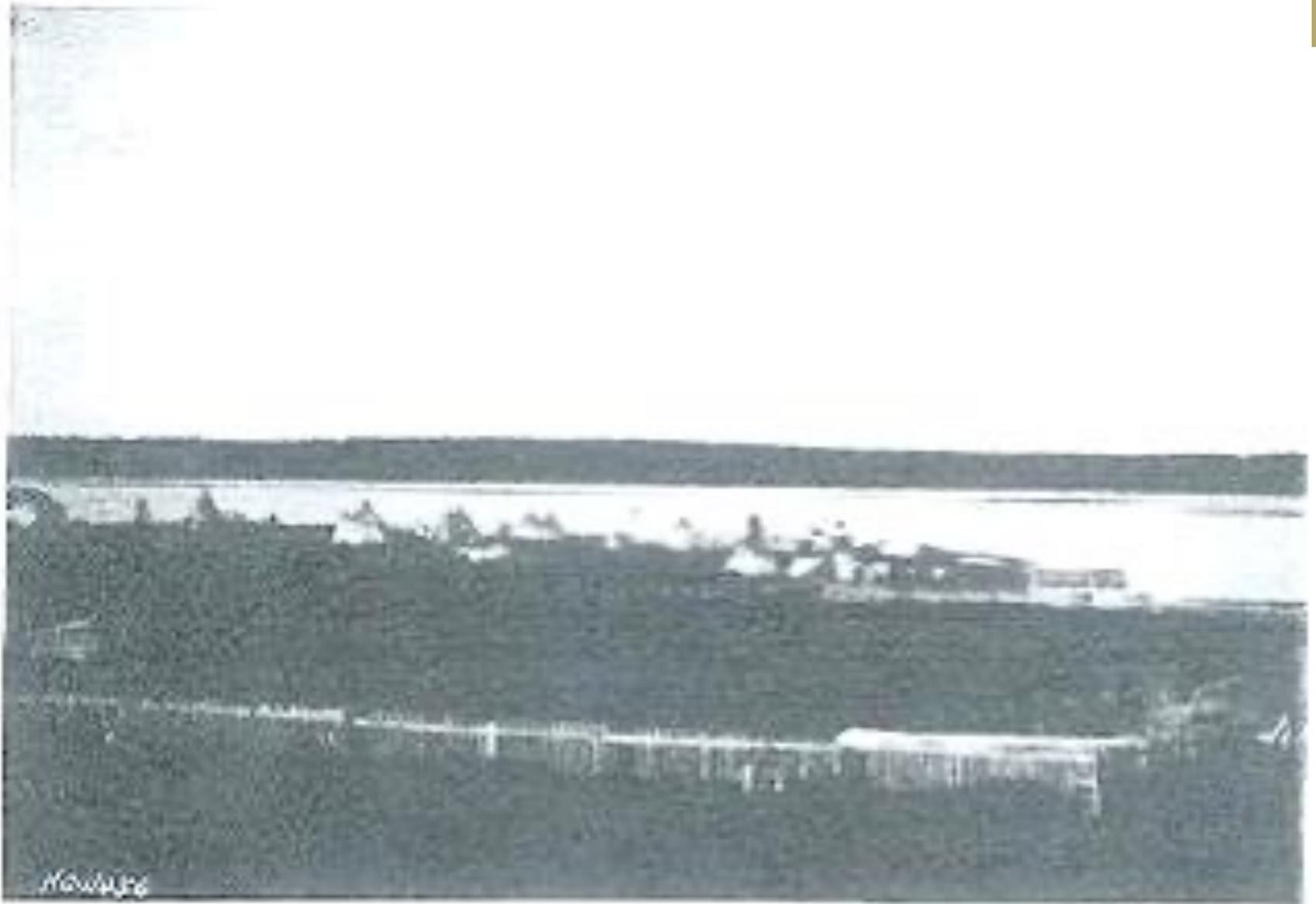


CANADA MORTGAGE AND HOUSING CORPORATION

History of First Nation Housing

Remote North – Mel Barber

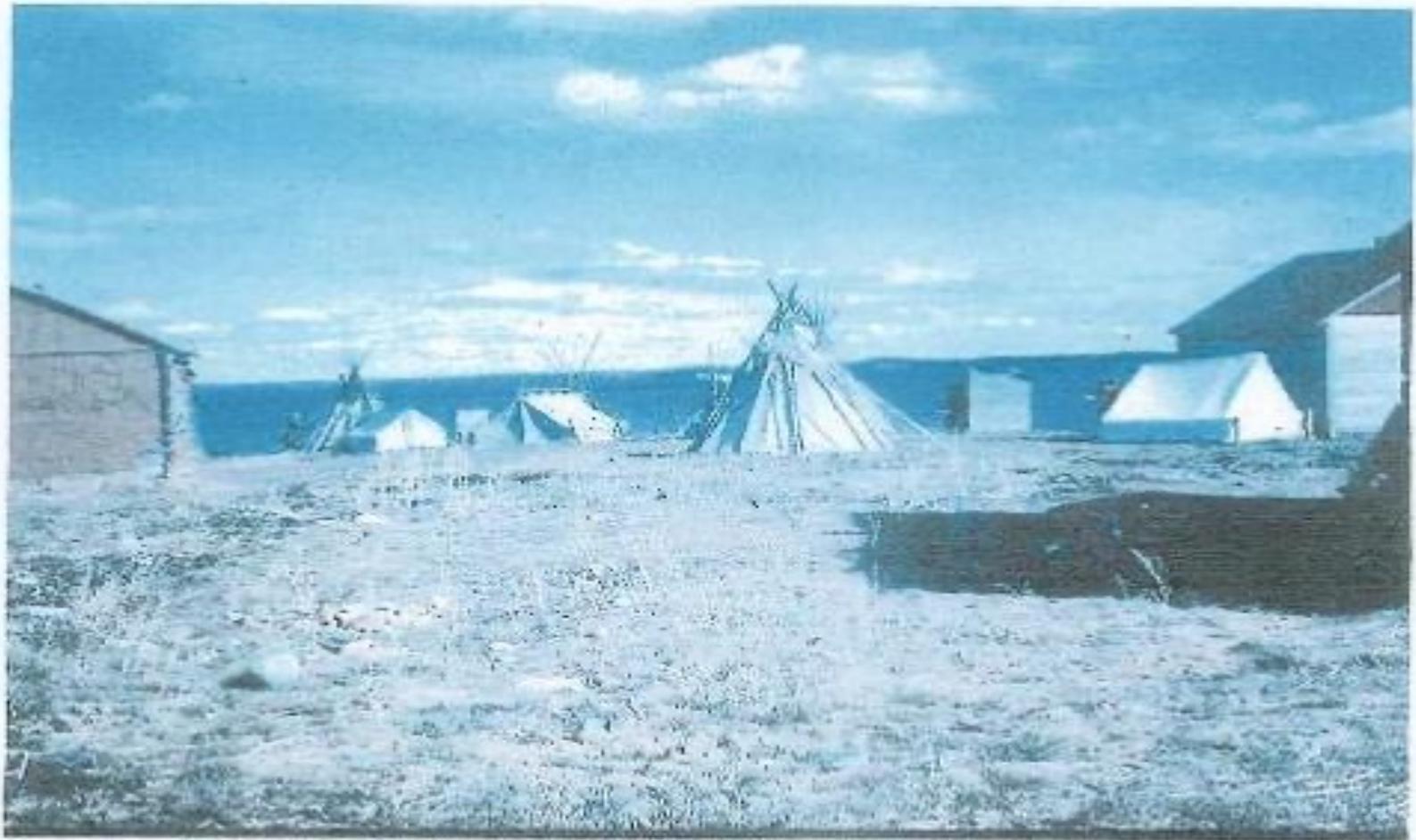






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TENT WITH TEEPEE IN FRONT.



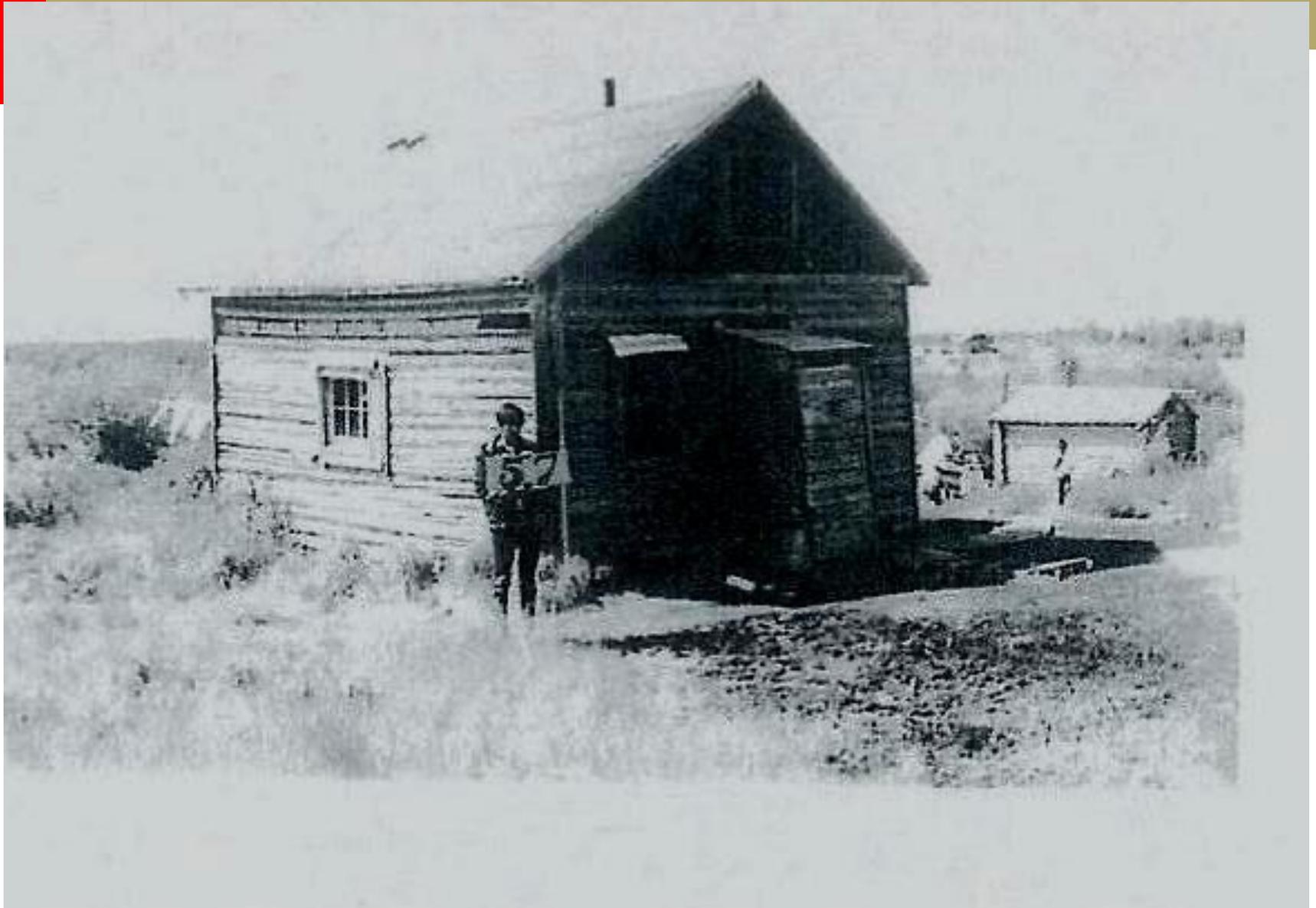
TWO TEEPEES WITH TENT.
IN THE MIDDLE



TEEPEE WITH CHIMNEY



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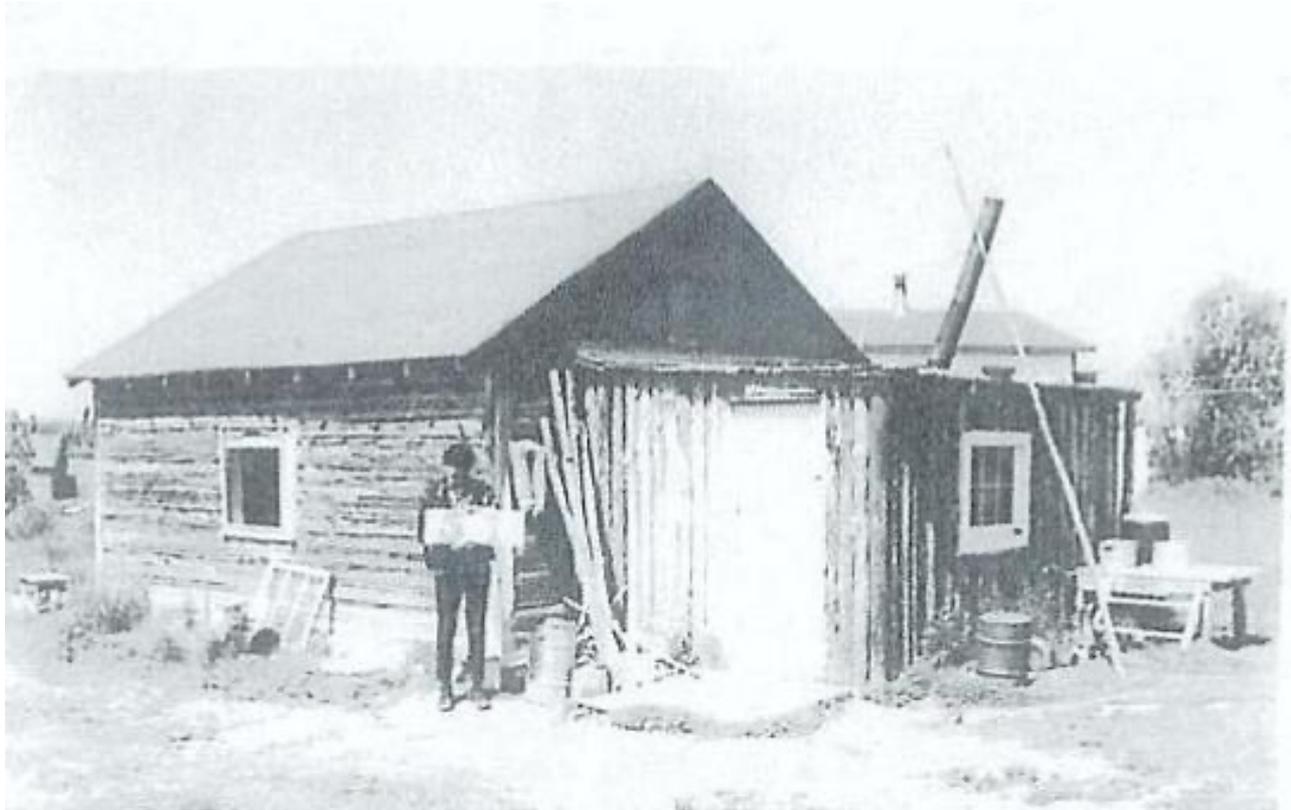
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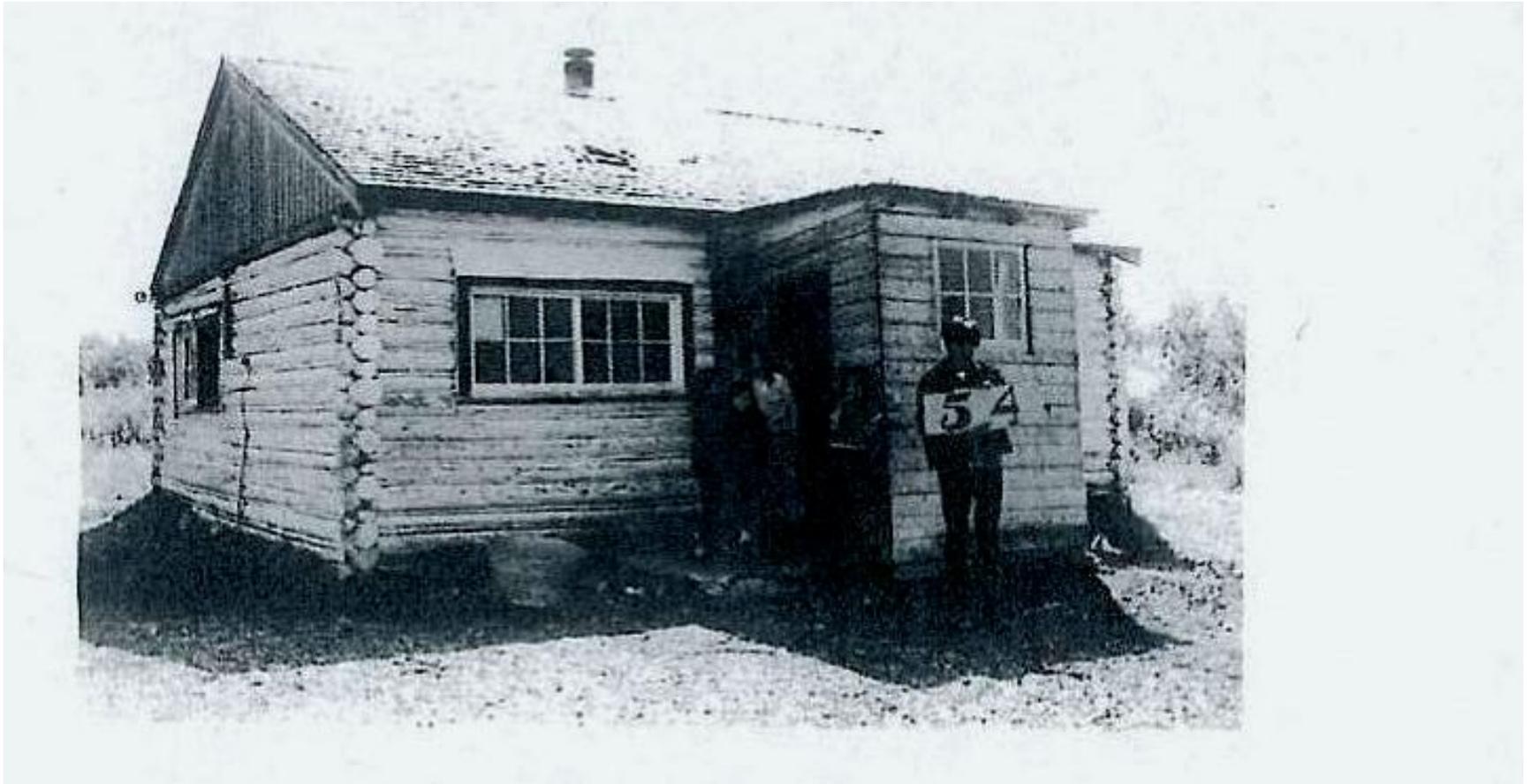
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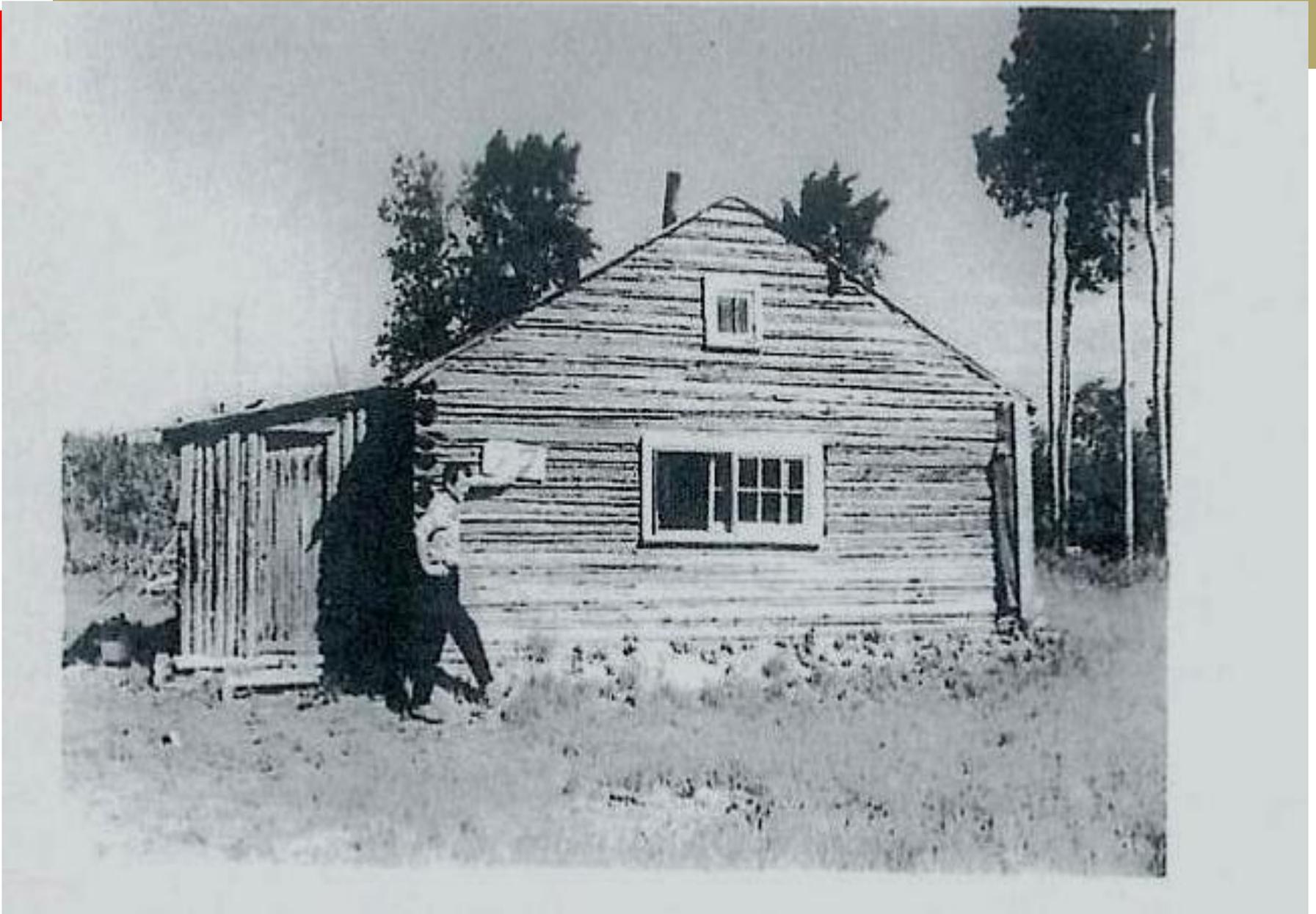
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Issues – Working Groups

Mike McKay and Patrick Larocque



9 Topics for Group Discussion

1. Suitability of Design- Functional, Cultural Needs
2. Heating – Designing for Wood Stoves
3. Moisture – Ventilation, Greater than Building Code
4. Fire Safety
5. The Site – Community
6. Building Systems – The Envelope
7. Windows and Doors
8. Pride in Home Ownership
9. Foundation Systems



Group I: Homecare and Youth (Builders)

Suitability of Design – Functional, Cultural Needs

- Service Area
- Living Area
- Sleeping Area
- Design



Group 2 – Elders

- Site Work Considerations
- Windows and Doors
- Home Designs



Technical Group

- Ventilation
- Heating
- Fire Safety
- Building Envelope – Roof and Walls
- Foundations







Design Charrette



OBJECTIVE

- To design a house that reflects:
 - local climate,
 - community and cultural aspirations,
 - long-term thinking, and
 - Current and future needs.



SPACE PLANNING

- the art of analyzing how your space will **function**. It is the relationship between how a particular room will be used and who will be using it.
 - **Functionality**
 - dividing into zones and functional uses.
 - **Circulation**- the movement between zones
 - **Storage**- storage frees up floor space



KEEPING IN MIND SOME DESIGN GUIDELINES

- utilize the sun actively and passively to reduce lighting, heating and cooling costs
- Combining spaces and open floor plans
- Separate the sleeping areas
- Visual screening of bathrooms
- Consider how individual rooms will be used
- Try to accommodate for future change
- Provide as much storage as possible
- Avoid excess circulation space (hallways)



Enclosed Porch

Kitchen

- Bulk storage- large pantry
- Homework space

Space

- Freezer
- Area to prepare meat.
- Shelving and storage
- Laundry room with storage

Functional Storage

Washroom

- Separate sink area for large families or two sinks
- Storage

Closets in bedrooms

- Adjustable shelving, use of all space

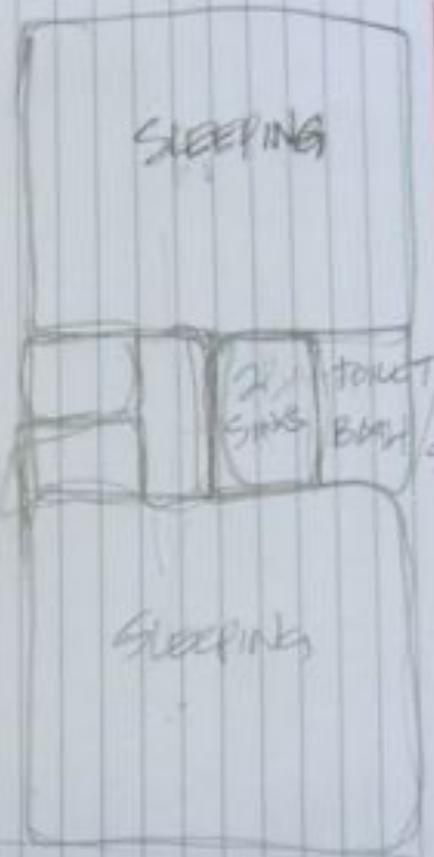
Solar Hot water

More compact HWT



1ST FLR

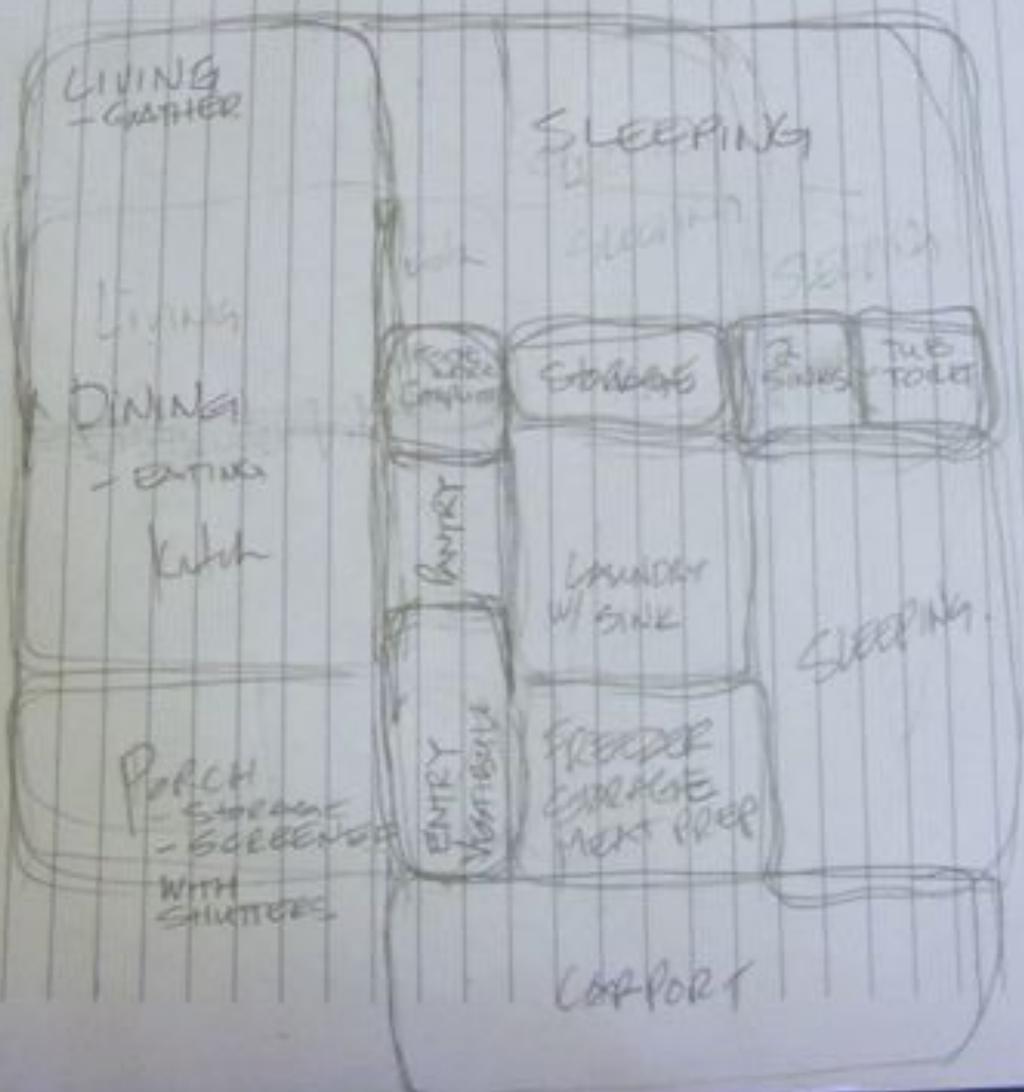
2ND FLR



1 1/2 STOREY.
YOUNG FAMILY

CARPORT

ONE STOREY HOME





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