

# Housing, Crises, and Relationality

NWT Housing Forum/Symposium  
January 22, 2025



David T Fortin, PhD, OAA, SAA, Architect AAA, AIBC

## What makes something “Critical”?

"of the nature of a crisis, in a condition of extreme doubt or danger"

1660s

[etymonline.com](http://etymonline.com)

"involving judgment as to the truth or merit of something" is from 1640s; that of "having the knowledge, ability, or discernment to pass judgment"

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<https://chemtrust.org/climate/>

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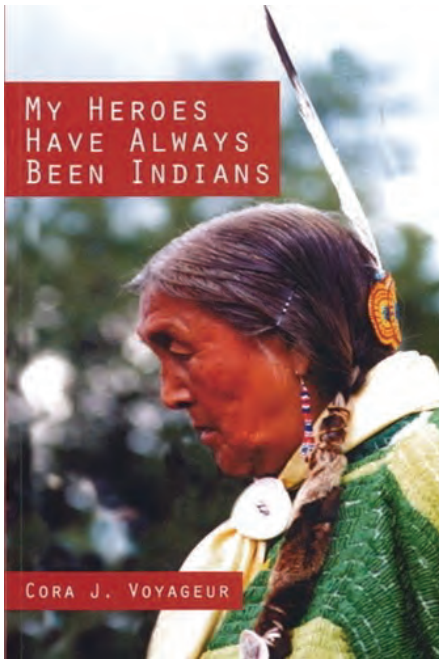
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“Critical Theory” in the narrow sense designates several generations of German philosophers and social theorists in the Western European Marxist tradition known as the Frankfurt School. According to these theorists, a “critical” theory may be distinguished from a “traditional” theory according to a specific practical purpose: a theory is critical to the extent that it seeks human emancipation, “to liberate human beings from the circumstances that enslave them.” Because such theories aim to explain and transform all the circumstances that enslave human beings, many “critical theories” in the broader sense have been developed. They have emerged in connection with the many social movements that identify varied dimensions of the domination that human beings experience in modern societies.

*James Bohman, Stanford Encyclopedia of Philosophy*





Architectural Internship (McKinley Burkhardt Architects)



Early Academic Work

## A Fundamental Crisis in our Relations

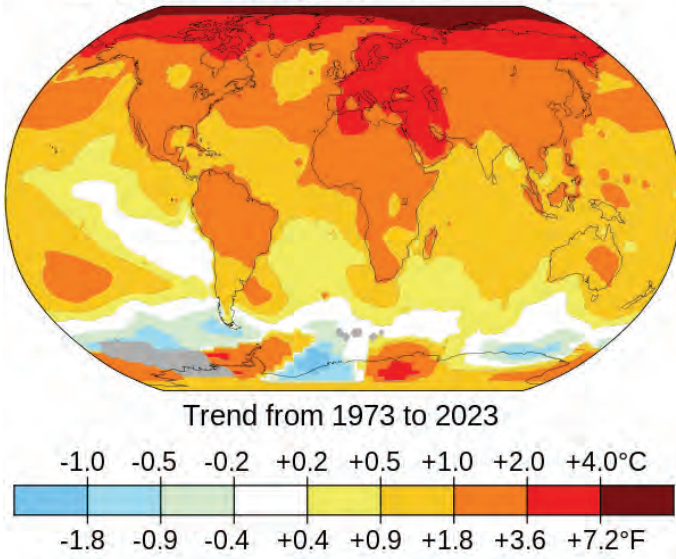


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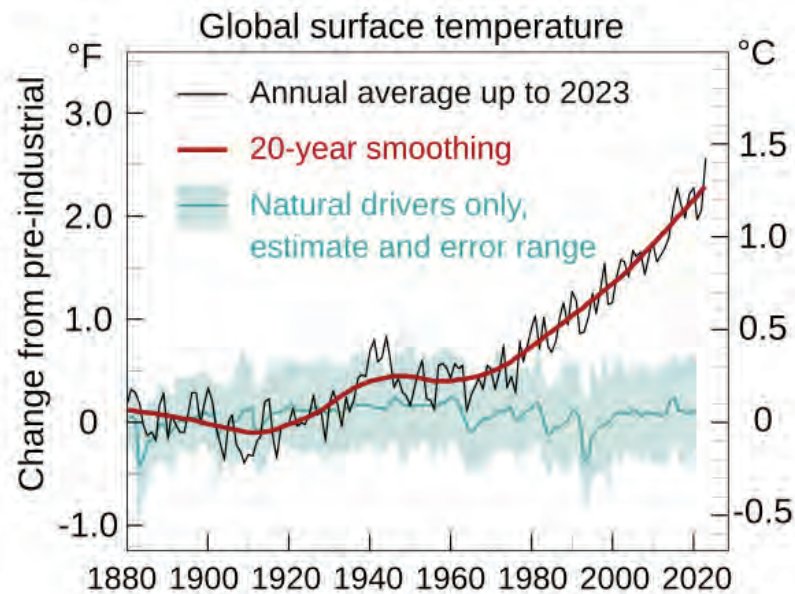


Early Academic Work, Kibera, Nairobi  
Montana State University

Temperature change over the past 50 years



**“Climate”?**



# Uprising: The Power of Mother Earth

Christi Belcourt, Isaac Murdoch



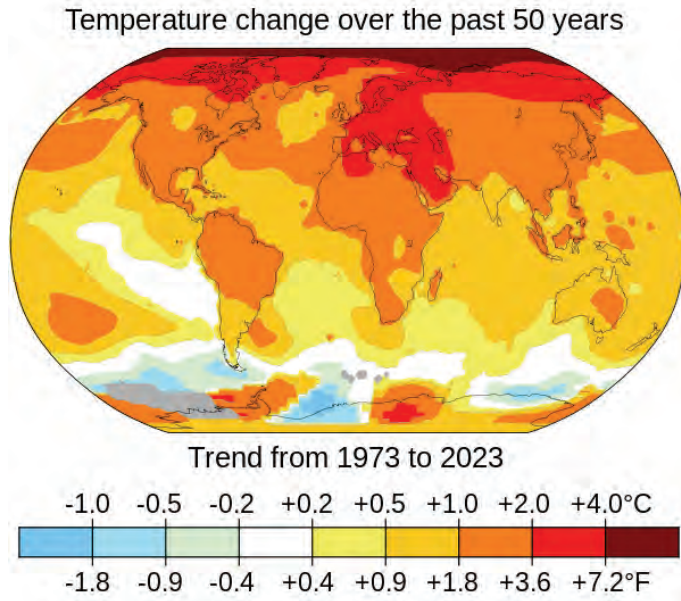
Christi Belcourt, *This Painting Is a Mirror*, 2012. Acrylic on canvas. Collection of Crown-Indigenous Relations and Northern Affairs Canada. Photo: Lawrence Cook.

<https://canadianart.ca/?agenda=uprising-the-power-of-mother-earth-2/>

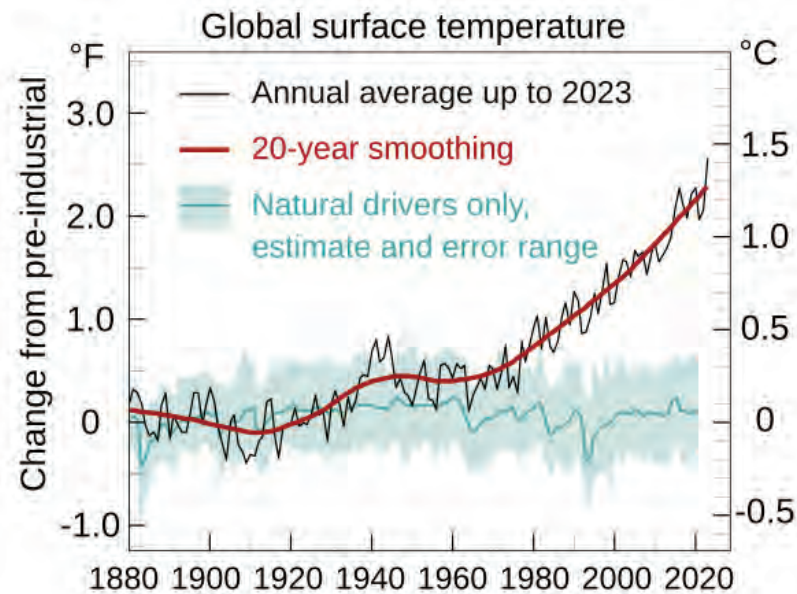
## A Fundamental Crisis in our Relations

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Christi Belcourt, *This Painting Is a Mirror*, 2012. Acrylic on canvas. Collection of Crown-Indigenous Relations and Northern Affairs Canada. Photo: Lawrence Cook.

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## What Relations Matter?

### THEORY NOTE

BENJAMIN KLASCHE 

*Tallinn University, Estonia & Helsinki University, Finland*

AND

BIRGIT POOPUU 

*Tallinn University, Estonia*

What relations matter? This question sits at the heart of this article and addresses in a more thoroughgoing way the methodological and ethico-political problems that some relational thinkers have debated. We are interested in deep relationalism and the methodological problem of delineating which relations matter in a reality defined by an ever-unfolding web of relations. By acknowledging the relationality of critical international relations (IR) theories, this methodological puzzle is explored by recognizing the situatedness of relations that are being analyzed. Moreover, this helps us to start a conversation on the ethical and political dimensions of deeply relational approaches. By placing the ontological work of deep relationalism in dialogue with the epistemological and ethico-political aspects of critical theory, we are putting forth an account of critical relationalism. Furthermore, we are not only arguing for a critical approach to relationalism but also adding to one of the main methodological debates in relationalism that asks us to carefully consider which relations matter (for our analysis) and how we should access them? Finally, this piece advocates for more plural grounds for relationalism in IR to critically reflect on *which relations our theoretical approaches can take us to* and why this matters.

### What Relations Matter?

“Previous relational approaches have not sufficiently problematized their epistemological commitments, i.e., how they know which relations matter in any given instance. Or alternatively, which knowledge do they rely on when thinking about relations?...

...[Without] the specificity of particular relations and knowledge we reproduce relations of inequality with the denial of its ramifications on the urban centres of ‘the West’ as the grounds for racial capitalism.

...[It] matters who conceptualizes the reactions we centre in our analyses, our worlds, and thus which corners and issues of the world we see and problematize.”

Benjamin Klasche and Bruit Poopuu, “What Relations Matter?”

## Critical Relationalism.

### **What Relations Matter?**

“Their starting points, e.g. the relations they call out, should be our starting points.”

Benjamin Klasche and Bruit  
Poopuu, “What Relations Matter?”

# The Production of Houses



Christopher Alexander

WITH

Howard Davis · Julio Martinez · Don Corner

“In short, the production systems which we have at present define a pattern of **control** which makes it almost impossible for things to be done carefully or appropriately, because, almost without exception, decisions are in the wrong hands, decisions are being made at levels far removed from the immediate concrete places where they have impact...and, all in all, there is a colossal mismatch between the organization of the decision and control, and the needs for appropriateness and good adaptation which the **biological reality of the housing system** actually requires.”

Christopher Alexander, Howard Davis, Julio Martinez, and Don Corner, The production of housing (New York: Oxford, 1985), 40.

## Housing as a Living Organism



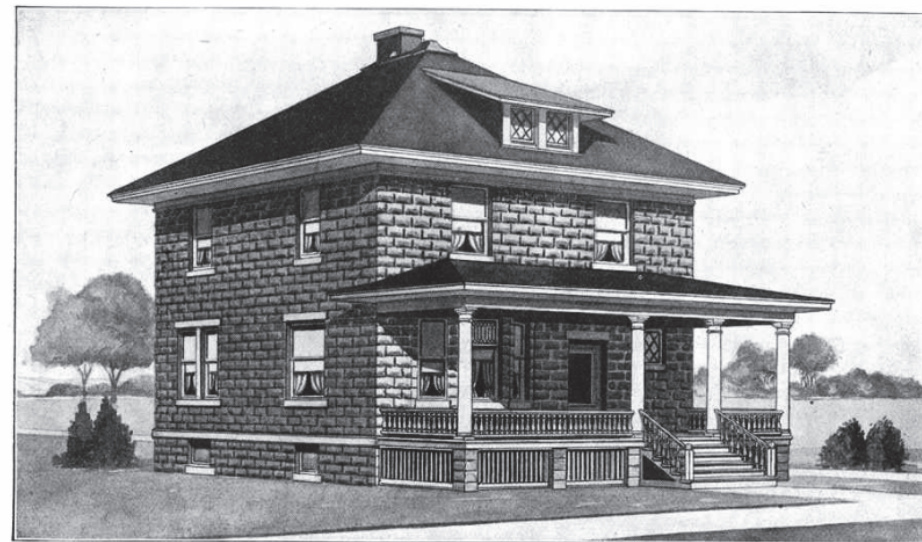


[https://www.spiritualpilgrim.net/04\\_America\\_The-Covenant-Nation/17\\_Cold-War/17g\\_Shifts-in-American-Culture-r.htm](https://www.spiritualpilgrim.net/04_America_The-Covenant-Nation/17_Cold-War/17g_Shifts-in-American-Culture-r.htm)

## **\$1,995<sup>00</sup>** and Our **FREE BUILDING PLANS**

**WILL BUILD, PAINT AND COMPLETE, READY FOR OCCUPANCY, THIS MODERN NINE-ROOM \$3,000.00 HOUSE**

HOW TO GET ANY OF OUR PLANS FREE FULLY EXPLAINED ON PAGE 2.



### **MODERN HOME No. 52**

Concrete Block Construction. On the opposite page we illustrate a few of the materials we specify on this our \$1,995.00 house.

### **OUR \$1,995.00 HOUSE**

illustrated above, consists of nine good sized rooms and bathroom, as shown in these floor plans

#### **FIRST FLOOR.**

Kitchen - - - - - 13 feet by 10 feet  
Pantry.  
Dining Room - - - - - 14 feet by 12 feet  
Living Room - 14 feet by 16 feet 6 inches  
Reception Hall - 11 feet 6 inches by 11 feet  
Bedroom - - - - - 11 feet 6 inches by 14 feet

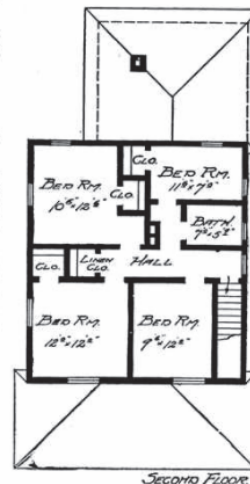
#### **SECOND FLOOR.**

Bedroom - - - - - 12 feet by 12 feet  
Bedroom - - - - - 9 feet 6 inches by 12 feet  
Bedroom 10 feet 6 inches by 12 feet 6 inches  
Bedroom - - - - - 11 feet 6 inches by 7 feet  
Bathroom - - - - - 7 feet by 5 feet 9 inches  
Linen closet and hall. Bedrooms have closets.

#### **The Arrangement of Our Houses**

is such that they can be well heated with very little expense. Our \$1,995.00 house is but one of the many frame or concrete houses for which we are able to furnish our free building plans and specifications. No matter what price house you may want to build, remember we can save you from 25 to 50 per cent.

**Size of Modern Home No. 52:** Length, 47 feet 10 inches; width, 27 feet 4 inches, exclusive of porch.



**DO NOT ATTEMPT BUILDING WITHOUT PLANS,** don't pay an architect \$100.00 or \$150.00 for plans which in no way compare in accuracy or detail with the plans we will furnish you free of charge on condition that you send us a small portion of your mill work order. If you were to attempt to build a house similar to the house illustrated above, it would cost you from \$500.00 to \$1,000.00 more.

See how you can get the plans for this house free on page 2.

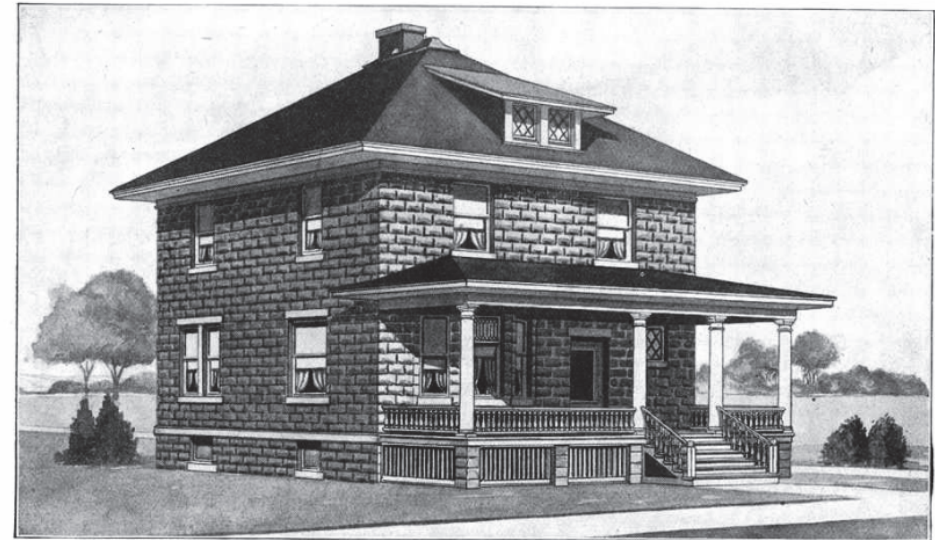
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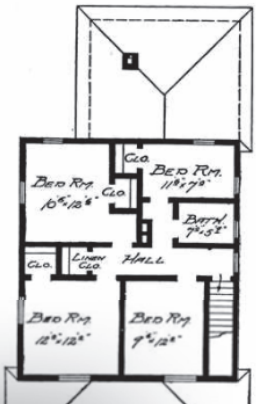
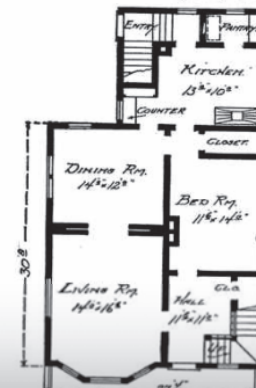
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Bedroom - 12 feet by 12 feet  
Bedroom - 9 feet 6 inches by 12 feet  
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Second Floor.  
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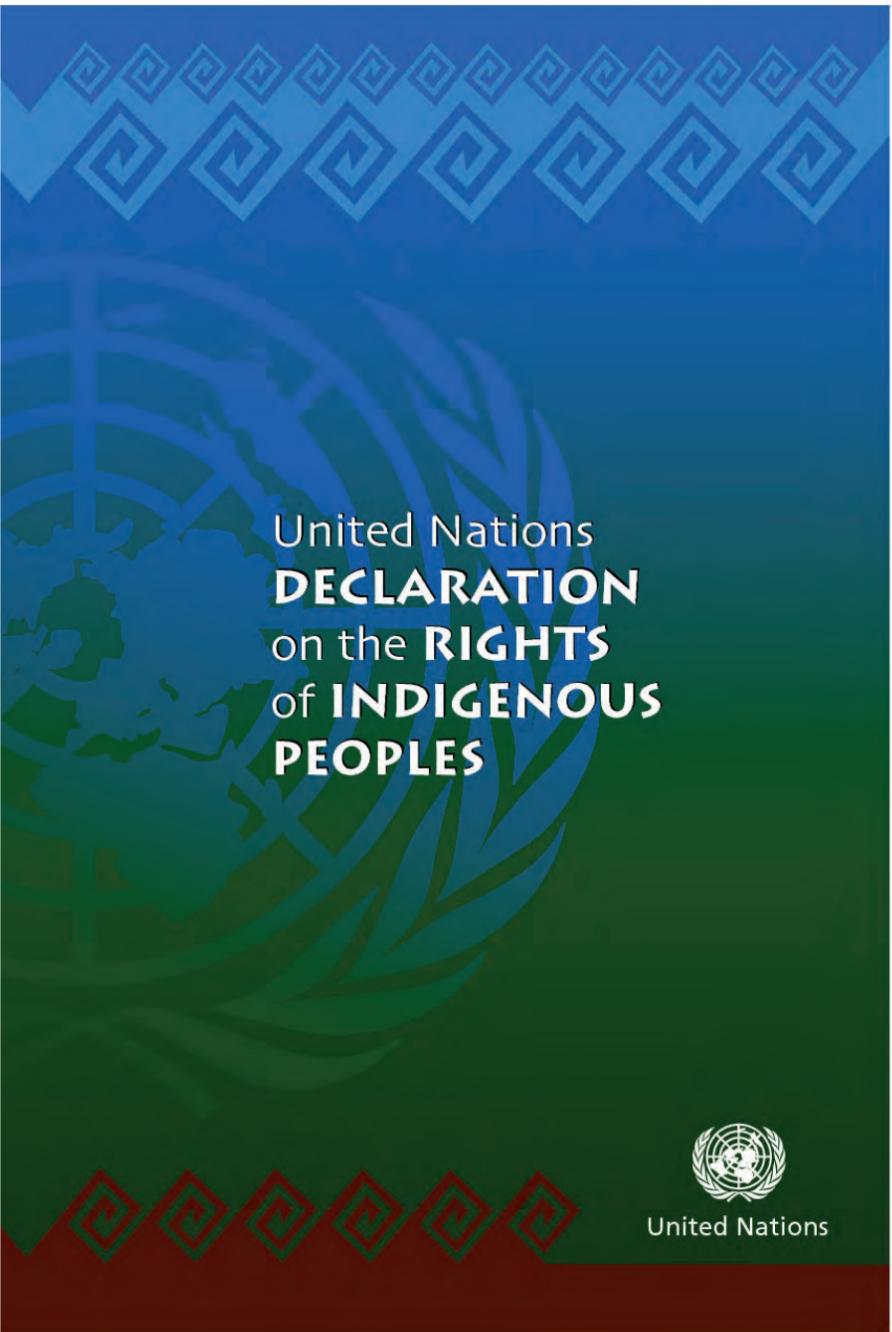


<https://www.ctvnews.ca/canada/canada-faces-a-crisis-on-aboriginal-reserves-un-investigator-1.1497612>



Housing at Six Nations of the Grand River





United Nations  
**DECLARATION**  
on the **RIGHTS**  
of **INDIGENOUS**  
**PEOPLES**

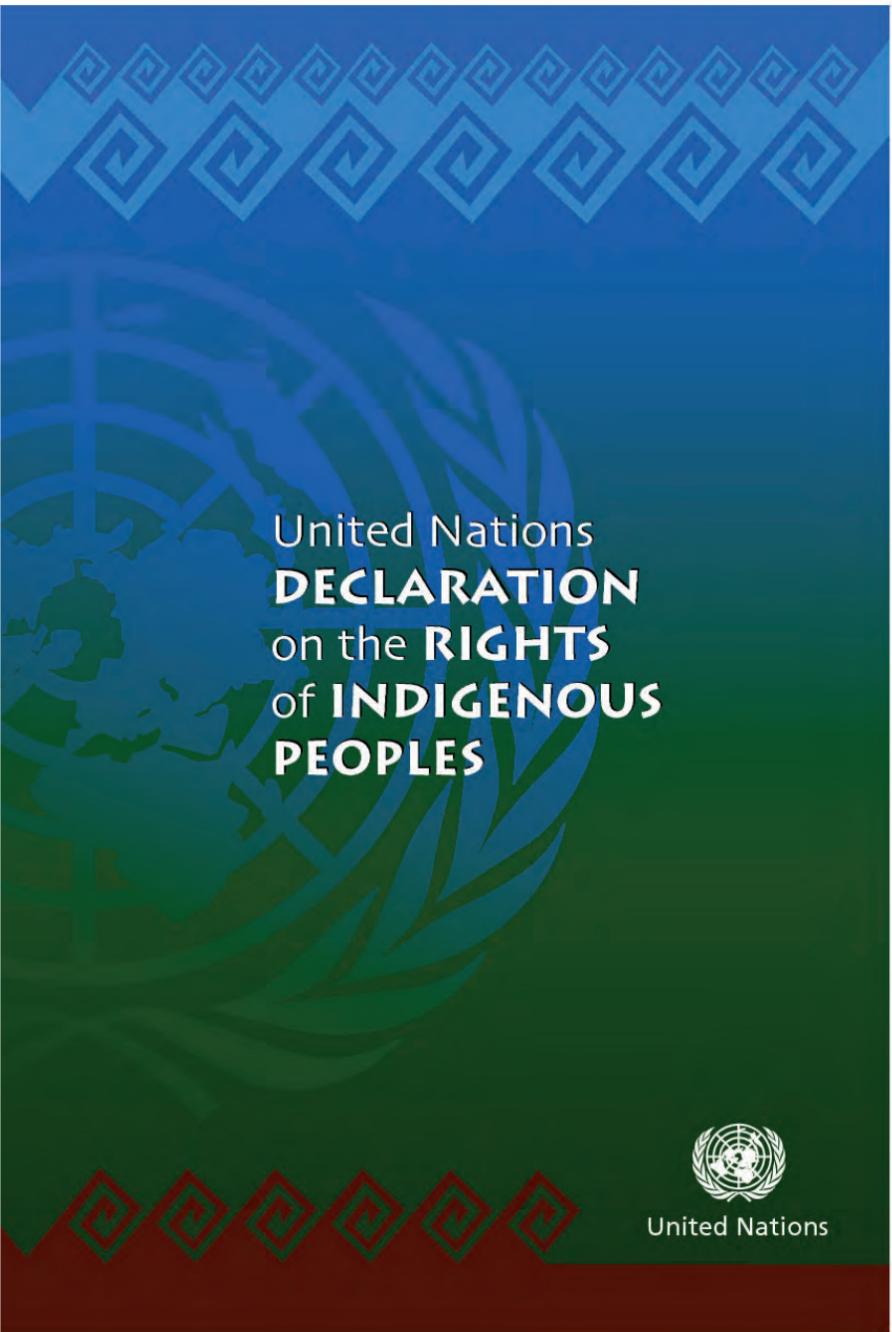


United Nations

## 2007 United Nations Declaration on the Rights of Indigenous Peoples

Article 11, Number 1:

Indigenous peoples have the right to practice and revitalize their cultural traditions and customs. This includes the right to ***maintain, protect and develop*** the past, present and ***future manifestations of their cultures***, such as archeological and historical sites, artefacts, ***designs***, ceremonies, ***technologies and visual and performing arts and literature***.



United Nations  
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on the **RIGHTS**  
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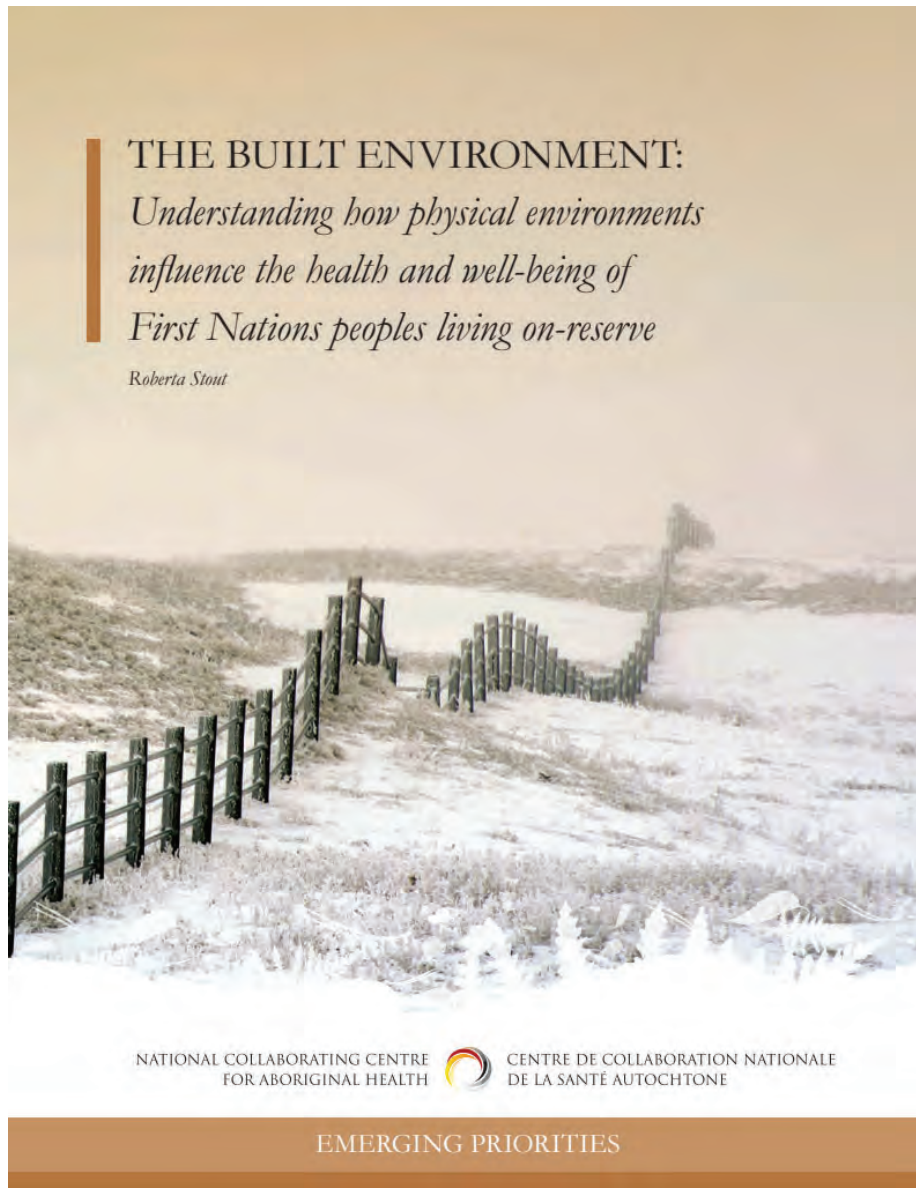
United Nations

## 2007 United Nations Declaration on the Rights of Indigenous People

### Article 23:

Indigenous peoples have the right to determine and develop priorities and strategies for exercising their right to development. In particular, Indigenous peoples have the right to be ***actively involved*** in developing and determining health, housing and other economic and social programmes ***affecting them*** and, as far as possible, to ***administer such programmes through their own institutions.***

"The Built Environment: Understanding how physical environments influence the health and well-being of First Nations peoples living on-reserve." Roberta Stout (2018).



<https://nccdh.ca/resources/entry/the-built-environment-understanding-how-phys-envts-influence-the-health-and>

**Red Feather Development, Straw Bale Home Program (2010-12)**  
Lame Deer, MT



**Red Feather Development, Straw Bale Home Program (2010-12)**  
Lame Deer, MT



**Home as Community**



**Red Feather Development, Straw Bale Home Program (2010-12)**  
Lame Deer, MT

**Home as Process - not object or commodity**



# THE MÉTIS ARCHITECT...(?)

A research project studying Canadian prairie Métis design thinking



about

The Métis Architect...(?)

Search ...

## ABOUT



### CATEGORIES

- Alberta
- Communities
- Conferences and Public Talks
- Conversations
- Introduction to the Project
- Manitoba
- Material Culture
- Saskatchewan

### ARCHIVES

- June 2018
- May 2018



Métis Folk House, Batoche, Saskatchewan (Photo: J Surkan)

This blog is the home base for a research project on prairie Métis architectural design being undertaken by Assistant Professor David T. Fortin of Laurentian University in Sudbury, Ontario. The project is funded by the Social Sciences and Humanities Research Council (SSHRC) and supported by the Laurentian University School of Architecture, Gabriel Dumont Institute in Saskatoon, Louis Riel Institute in Winnipeg, and with assistance from the Métis Settlements in Alberta. The blog will keep an ongoing update on the research and is intended to welcome feedback and input from anyone interested.

Please click here for information about the [Project Team](#).

### MÉTIS EDUCATIONAL INSTITUTIONS

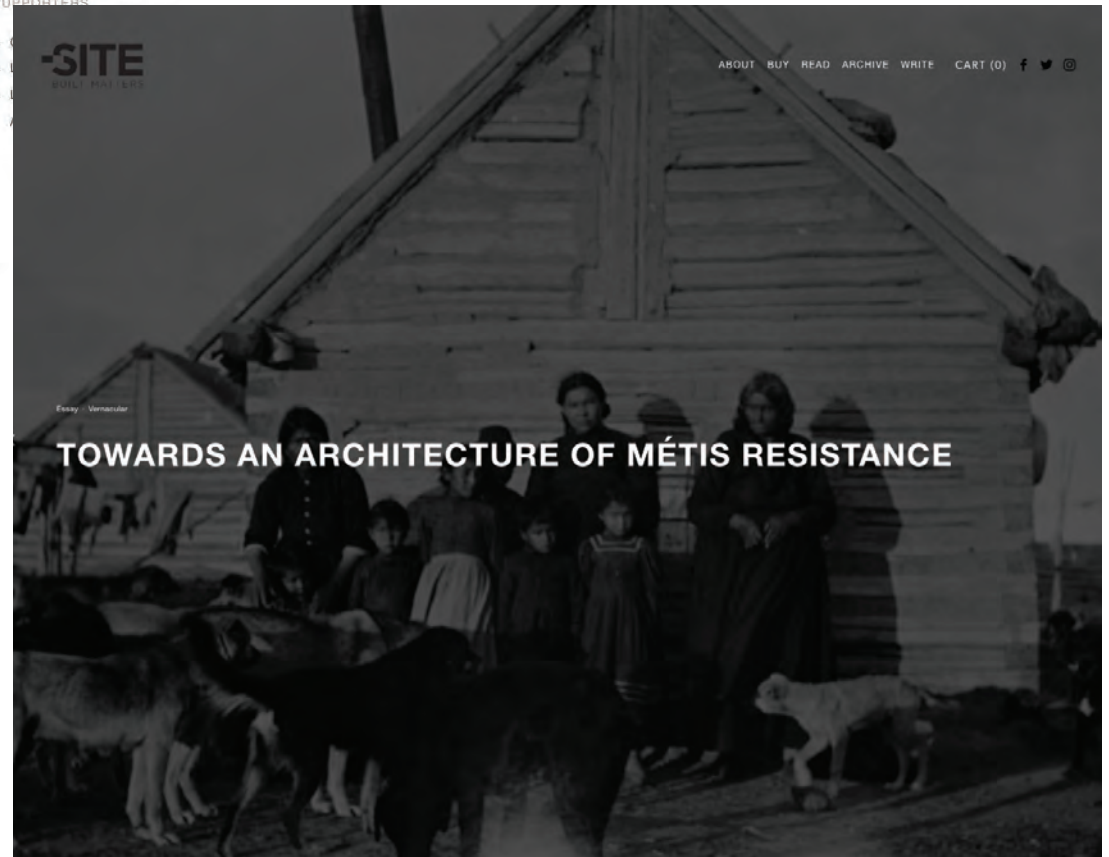
- Gabriel Dumont Institute (GDI)
- The Louis Riel Institute

### MÉTIS NATIONS AND FEDERATIONS

- Alberta Métis Settlements General Council
- Canadian Métis Council
- Manitoba Métis Federation

### RESEARCH FUNDING AND SUPPORTERS

- 
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- 
- 



-SITE  
BUILT HISTORIES

ABOUT BUY READ ARCHIVE WRITE CART (0) f t i

Essay - Vernacular

## TOWARDS AN ARCHITECTURE OF MÉTIS RESISTANCE

David Fortin, Jason Surkan, and Danielle Kastelein, “Métis Domestic Thresholds and the Politics of Imposed Privacy,” in *Our Voices: Indigeneity and Architecture*, ed. Rebecca Kiddle, luugigyoo patrick stewart, and Kevin O’Brien ([Novato, California]: ORO Editions, 2018), 76–84.

## SPATIAL PROGRAM IN THE MÉTIS HOME



19TH CENTURY MÉTIS LOG HOME



INAC DESIGNED HOME



Architectural plans of a folk home (Left) and of a “Three Bedroom Low Cost House” (Right). The folk home was a single room dwelling that allowed for a flexible use of space. The second home was designed by Indigenous and Northern Affairs Canada (INAC) in 1968. This standardized, compartmentalized plan impeded Métis culture and tradition by disallowing flexible space where cultural and traditional activities could occur within the home. (Drawings: Jason Surkan)

First Nations National Building Officers Association, National Research  
Council of Canada, Morrison Hershfield

**Technical Specifications for Remote Northern Indigenous Housing**  
2018-2022

# Technical Specifications for Remote Northern Indigenous Housing

2018-2022



## A Path to Healthy Housing:

A Proposal for Community Engagement with First Nations  
and Métis Communities in Remote Northern Locations

April 6, 2018

# Technical Specifications for Remote Northern Indigenous Housing

2018-present



## A Path to Healthy Housing

Advisory Board: luugigyoo Patrick Stewart, Jerry Otowadjiwan, Helen Bobiwash, Justice Seidel, Eladia Smoke, Sammy Hunter, Chuck Petahtegoose, Jake Chakasim

2019-2020 additions: Larry Jones, Georgina Recollet and Dawn Lavell-Harvard

## A Path to Healthy Housing: Guiding Principle Diagram

(Original, 2018. Revised with Alex Wilson, 2023)



# Technical Specifications for Remote Northern Indigenous Housing

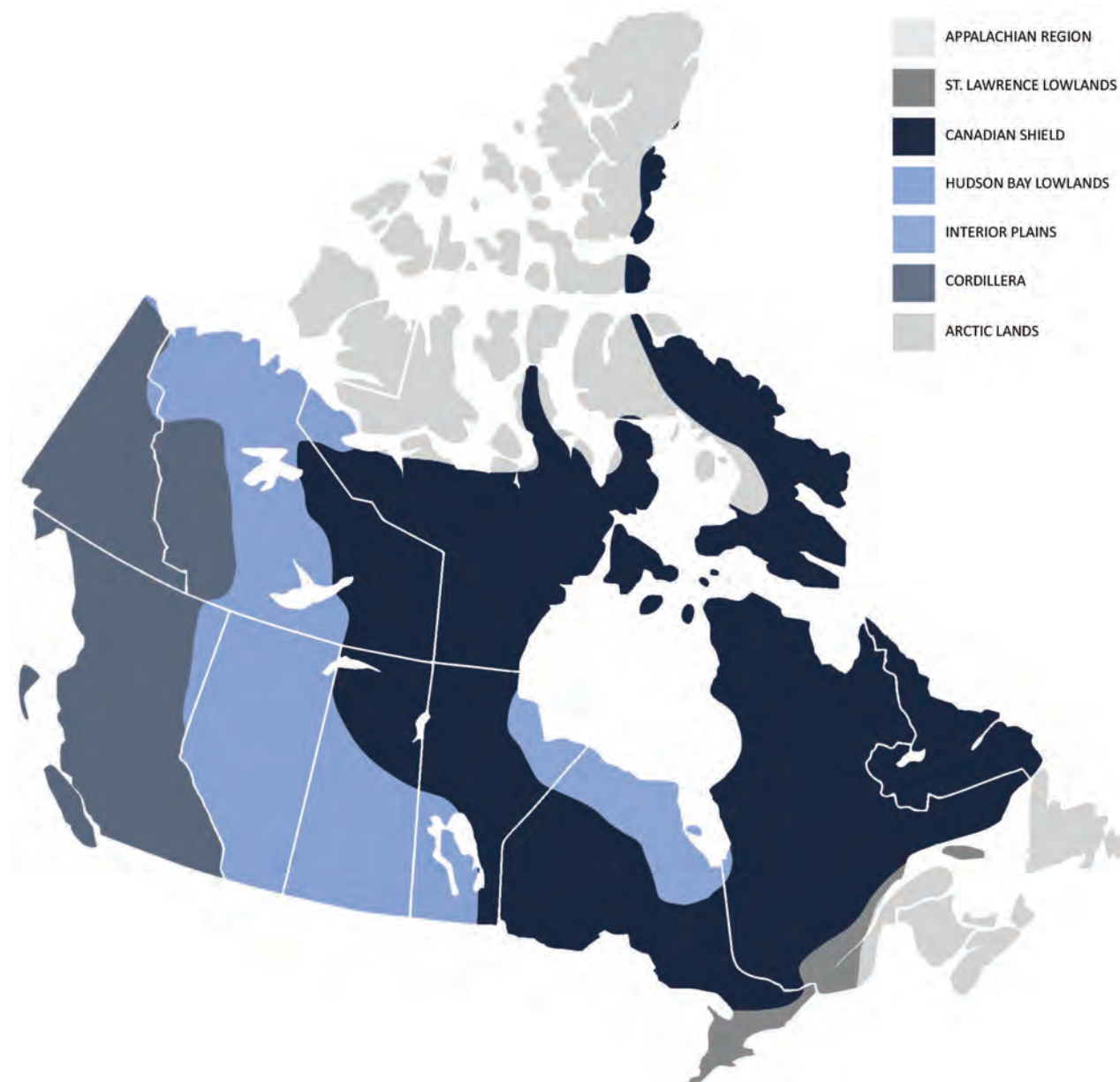
2018-present

What is remote and northern?



# Technical Specifications for Remote Northern Indigenous Housing

2018-present



# Technical Specifications for Remote Northern Indigenous Housing

2018-present



# Technical Specifications for Remote Northern Indigenous Housing

2018-present

## Schedule A -- Statement of Work and Project Deliverables //

### 2.06 A Path to Healthy Housing Workshop Booklet

A digital copy of this document that was created during the above mentioned housing workshop will be provided to the Design Architect to expand on the background information pertaining to this RFP.

### 2.07 Site Visits

A total of three (3) or four (4) site visits at different times throughout the year to understand the climatic conditions of the community as they pertain to design of housing, are required for the Design Architect with the Host Nation. Funding for the visits and expenses incurred on these trips is provided by David T Fortin Architect INC. The Design Architect may be reimbursed for related expenses incurred as long as original receipts are mailed to David T Fortin Architect, however, the preference is for expenses to be paid directly by David T Fortin Architect INC.

The first visit would include an 'Introduction Meeting' whereby the team would meet in the community. Being the longest, and initial meeting, a proposed schedule has been developed below. The team should prioritize listening and observing and documenting the life of the community and how they perceive their existing and desired housing situations. The Design Architect will Perform Indoor Air Quality Tests as guided by David T Fortin Architect. The Design Architect should consider specific mapping/drawing/modeling strategies that will encourage multigenerational participation throughout this visit. Furthermore, community members should be encouraged to consider building traditional homes as an option as this is essential for healthy community growth.

The second visit to the community by the design team would occur approximately 3

months later giving the Design Architect plenty of time to conduct research about traditional and proposed contemporary methods. Part of the responsibility of the visiting team during this visit would be the following: share the positives and negatives of the two researched approaches to housing (traditional and modern) to help community members better understand their options; and explain various options of proposed building systems and how they could support healthy community growth.

The second visit should also consist of a series of workshops over the 2 days, including exercises relating design with the land, daily routines, and other cultural influences, a number of rough housing or schematic "models" will be agreed on, led by the community, for the Design Architect to develop towards resolution.

The last visit would include the design team (architect and intern/student only, with translator as needed) returning to share the final models and drawings/renderings with the community, based on the rough models developed during the previous visit. The intent would not be to present one single fit-all house but a demonstration of multiple variations of the housing design system that respond to the parameters defined by the community. This final visit would essentially be a 1-day meeting to review the houses in a more complete way and record feedback from the community on the final designs, as well as the overall process for similar engagements in the future.

Ideally, there would be a range of options presented that all honour a hybrid systems approaches that are inspired by traditional building tectonics, typologies and materials, whilst translating these systems into a contemporary Indigenous architecture.

# Technical Specifications for Remote Northern Indigenous Housing

## 2018-present

### Schedule A -- Statement of Work and Project Deliverables

Upon receipt of the final documentation for the "model process" houses, the coordinator will arrange a final meeting/workshop with the initial Advisory Board to review the resultant designs and discuss lessons learned for future engagement processes.

#### 2.08 Proposed Schedule for Initial (1 of 3) Community Visit

Arrive in the Evening prior to Day 001 of the schedule to settle in and rest before community visit. The first visit is to be completed in the fall/early winter in the Host Nation. The below schedule is speculative. Final details will be arranged with a liaison in the community. A wide variation in itineraries is expected based on community suggestions, as well as member availability and capacity.

##### Day 001 //

Morning  
Opening Ceremonies and Greetings from Community Elders  
Protocol Offerings from Guest Architect and Team  
Meeting at Band Office with Community Leaders  
Community Lunch  
Afternoon  
Community Tour of Infrastructure, School, Housing, etc. to give a sense of the community's built environment.  
Meetings with community builders, home inspectors, housing maintenance crews, infrastructure managers, etc. to hear their perspectives on what is and isn't working in their communities;  
Evening  
Meeting with specific groups independently, such as women's groups, youth, and young men groups;

##### Day 002 //

Morning  
Going out onto the land to practice cultural activities with community

members. These activities could possibly include hunting, fishing, gathering, crafting, trapping, visiting bush cabins built by community members.

Community Lunch

Afternoon

Land-Based Collaboration continued. The architect can gain a sense of locally available materials that could be used in the construction of the home.

This could also include visits to existing housing in community to record technological success and failure as well as use of the home

Evening

Possibility to share ceremony with the community in the evening.

##### Day 003 //

Morning

Community Design Charrette at School or Band Office.

Presentation of Architectural Firms Work to Community in the Design Workshop  
Collaborative Design Time

-The sharing of stories and teachings by Elders and/or knowledge carriers;- series of workshops whereby community members outline their values related to housing and their barriers to affordable housing;  
-Discussions about communal living spaces and multi-generational and multi-familial living arrangements;

-Workshops where community members could draw and/or use cultural artifacts to express their relationship to housing, including the possibility of modest building exercises related to traditional ways of construction;

-Discussions about renewable energy options (solar panels, wind turbines, passive heating and cooling, water conservation, etc.);

-Discussions about promoting locally-owned construction-related companies

Community Lunch (Tea/Coffee and Bannock, or other relevant local foods, to be available throughout the Design Workshop)

# Technical Specifications for Remote Northern Indigenous Housing

2018-present

## Schedule A -- Statement of Work and Project Deliverables

Afternoon  
Community Design Workshop at School or  
Band Office Continued (Tea/Coffee and  
Bannock to be available throughout the  
Design Workshop)  
Conduct Indoor Air Quality Questionnaires

### Day 004 //

Morning  
Further Development of Design Workshop  
and Review of the Previous Days Events  
with Community.  
Drawing/Brainstorming Session with  
Architect as Lead  
Community Lunch (Tea/Coffee and Bannock  
to be available throughout the Design  
Workshop)  
Afternoon  
Open for Design Architect to tour more  
homes, interview community members,  
gather further information, etc.  
Community Feast  
Closing Ceremonies

Travel at the end of Day 004 or early  
morning on the day after to home. It  
will be important for the Architects to  
spend a significant amount of time in the  
community and be hosted by a family, or  
group of families within the community  
to experience the community's culture.  
The goal of the first community visit is  
to build a meaningful relationship with  
the community. This tentative schedule is  
entirely flexible to meet the communities  
needs and is to serve only as a reference  
for suggested activities.

### 2.09 List of Deliverables to David T Fortin Architect from Design Architect

Note: This list of deliverables is not a  
definitive list, however, it is a suggested  
deliverable list that is meant to create  
a comprehensive design project. The Final  
Report and Architectural Drawings (2.00-  
2.26) are mandatory.

### Cultural and Context Report (Text, Drawings, Photographs and Diagrams)

- 0.00 -- Site Mapping
- 0.01 -- Historical Community Research
- 0.02 -- Documented Interviews with Elders,  
Youth and Community Members
- 0.03 -- Traditional Land Use Mapping
- 0.04 -- Winter Travel Trails/Routes  
Mapping (As Relevant)
- 0.05 -- Summer Water/Land Travel Routes  
Mapping (As Relevant)
- 0.06 -- Animal/Fish Harvesting Sites (As  
Relevant)
- 0.07 -- Berry/Medicine Gathering Sites  
(As Relevant)
- 0.08 -- Locations of Hunting/Fishing  
Camps (As Relevant)
- 0.09 -- Local Material Harvesting Sites
- 0.10 -- Traditional Housing Typologies  
and Technologies
- 0.11 -- Traditional Detailing Techniques
- 0.12 -- Documented Analysis of Current  
Housing including Indoor Air Quality  
Surveys/Analysis, Construction  
Deficiencies, Alterations done by Owners
- 0.13 -- Solar, Wind and Environmental  
Analysis

### Logistics Plan

- 1.00 -- Delivery and Storage of Materials  
to Remote Community Plan
- 1.01 -- Connection to Infrastructure Plan
- 1.02 -- Housing Budget including Delivery  
Costs and Affordability Analysis

### List of Architectural Drawings

- 2.00 -- Cover Sheet
- 2.01 -- Drawing Index
- 2.02 -- Architectural Symbols
- 2.03 -- Site Plan
- 2.04 -- Structural Grid Drawing
- 2.05 -- Ground Floor Plan
- 2.06 -- First Level Floor Plan (Optional)
- 2.07 -- Reflected Ceiling Plan Ground Floor
- 2.08 -- Reflected Ceiling Plan First Level

# Technical Specifications for Remote Northern Indigenous Housing

## 2018-present

### Schedule A -- Statement of Work and Project Deliverables

2.14 -- Window Types and Details  
2.15 -- Window Schedule  
2.16 -- Room Finishes Schedule  
2.17 -- Exterior Elevations South and East  
2.18 -- Exterior Elevations North and West  
2.19 -- Building Section 01  
2.20 -- Building Section 02  
2.21 -- Building Section Details  
2.22 -- Building Section Details  
2.23 -- Stair Plans and Details  
2.24 -- Plan and Wall Details  
2.25 -- Interior Elevations  
2.26 -- Mill Work  
2.27 -- Consideration of Water and Sewage Tank Locations

#### Perspectives

3.00 -- Isometric View SE  
3.01 -- Isometric View SW  
3.02 -- Isometric View NW  
3.03 -- Isometric View NE  
3.04 -- Exterior Rendering  
3.05 -- Exterior Rendering 02  
3.06 -- Interior Rendering  
3.07 -- Interior Rendering 02

#### Physical Models

4.00 -- 1:500 Site Plan demonstrating house relation to community and other houses (Optional)  
4.01 -- 1: 50 or 1:25 Building Model (optional)  
4.02 -- 1:10 Detail Model (optional)

#### Maintenance and Lifespan of Home

5.01-- Proposed Maintenance Strategy and Schedule/Cost/Education  
5.02 -- Incremental Growth/Renovation Plan for Home  
5.03 -- Life Cycle- Assessment  
5.04 -- Environmental Plan Including Post-Life Material Recycling and Upcycling as relevant  
5.05 -- Cultural, Health, Social and Economic Benefits of the Design Project to Community members into the Future

5.06 -- Explanation of how this Project Promotes Ownership of the Home into the Future as per Community Policies  
5.07 -- Explanation of Generation, Gender, or Accessibility Aspects taken into Consideration (As Relevant)

#### Final Report

All community research is to be compiled into a final report that is provided to the community in both digital (PDF) and print copies. Print copies are to be delivered to the host community. A template and assistance for this section will be provided by David T Fortin Architect INC. A sample format of a final report can be provided to the architect for reference by request.

#### Intellectual Property

A digital set of drawings in CAD or Revit format are to be provided to David T Fortin Architect INC. as well as any 3D models created in the process to aid in the creation of consistent graphic representations of each project for presentation purposes only. This project is collaborative by nature and sharing of design material is key to the overall success of the project. All work will be accredited to the respective architectural offices in which it was created at all stages in the project, who own copyright to their design and may use their designs at their discretion. David T Fortin Architect may use any representation of the design as needed, however, must credit the Design Architect team in each case.

#### Engineering

Engineering services are being provided by the NRCC as it pertains to this project. David T Fortin Architect INC. is responsible for coordinating services between contractors.

## Technical Specifications for Remote Northern Indigenous Housing

2018-present



**A Path to Healthy Housing:** Eladia Smoke of Smoke Architecture in Bunibonibee Cree Nation, MB

## Technical Specifications for Remote Northern Indigenous Housing

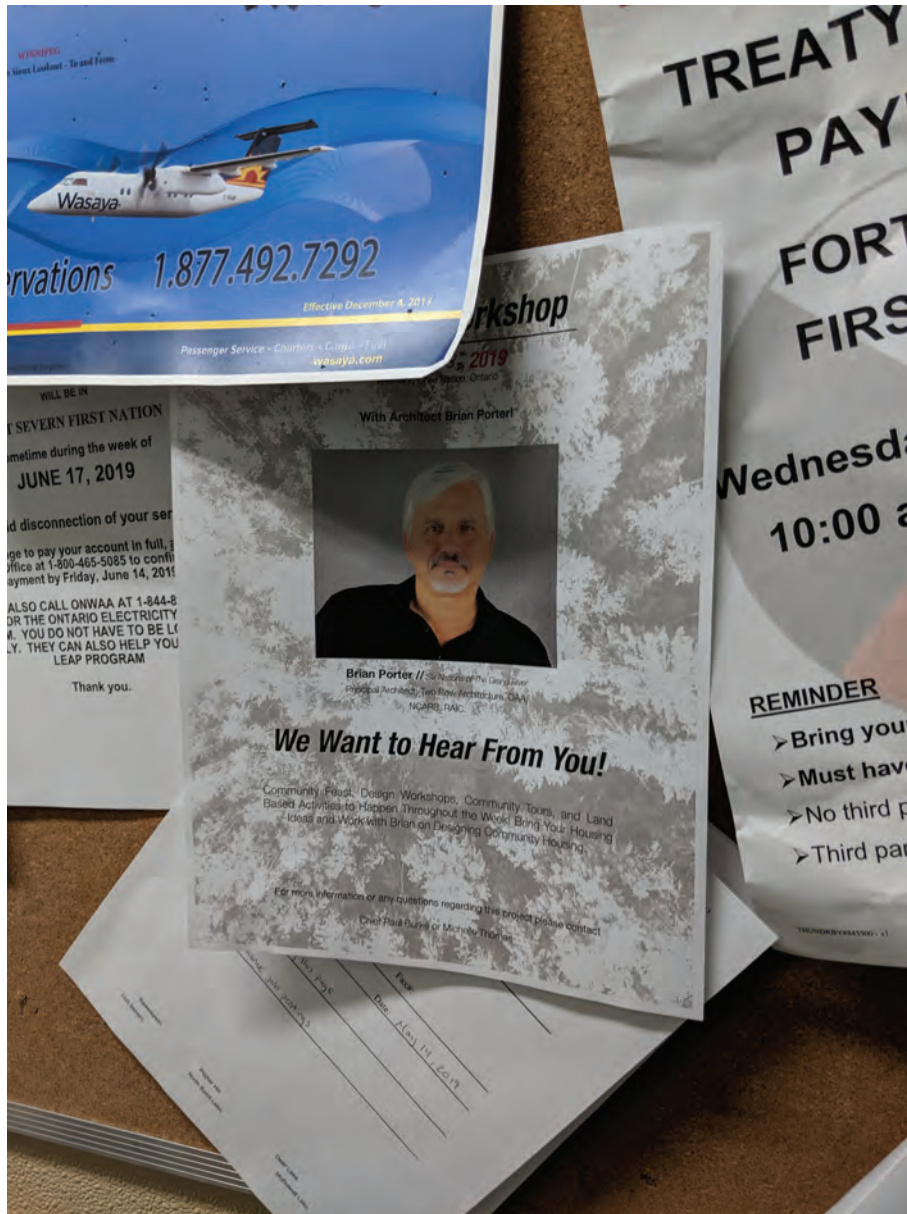
2018-present



**A Path to Healthy Housing:** Brian Porter of Two Row Architects in Fort Severn First Nation, ON  
(with KPMB Architects)

# Technical Specifications for Remote Northern Indigenous Housing

2018-present



Two Row Architect (Brian Porter) with KPMB, Visit 1, Ft Severn First Nation (2019)

## Technical Specifications for Remote Northern Indigenous Housing

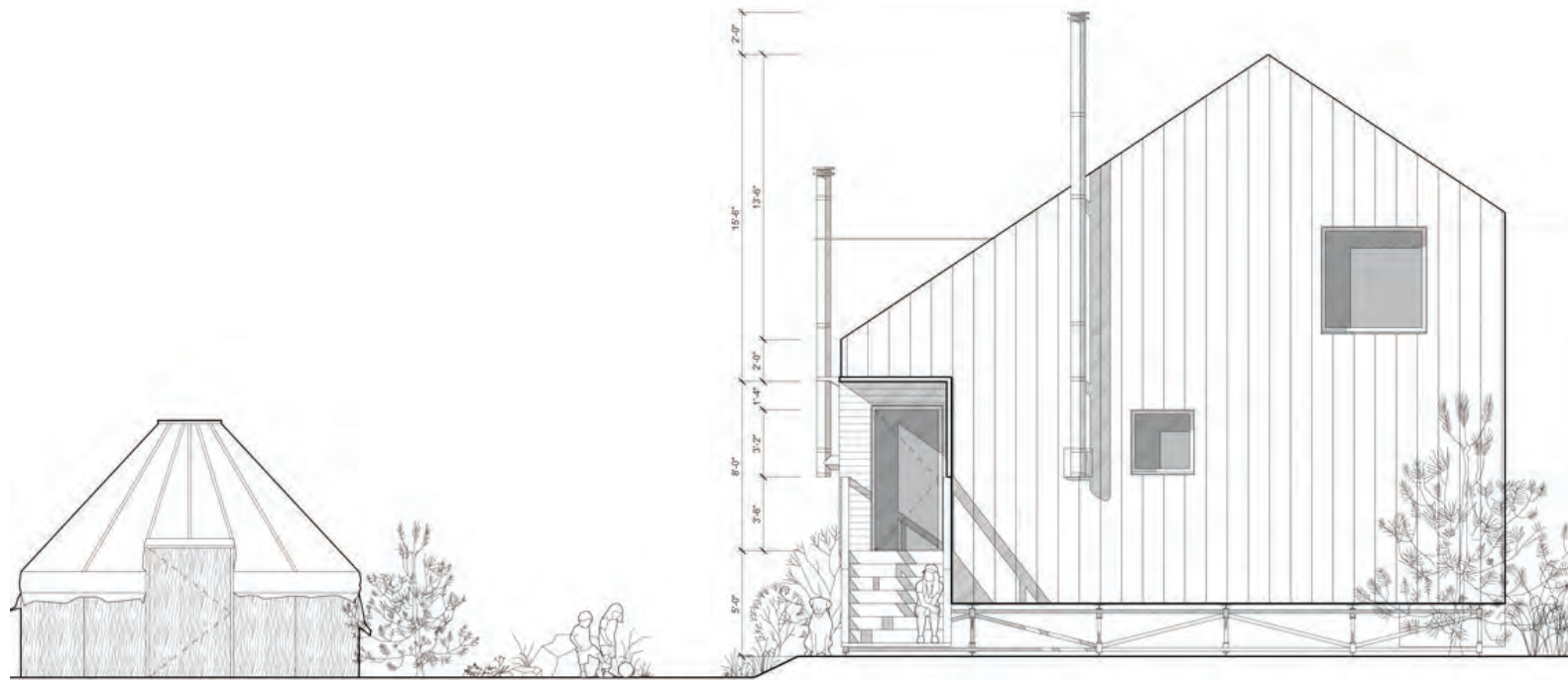
2018-present



Two Row Architect (Brian Porter) with KPMB, Visit 1, Ft Severn First Nation (2019)

# Technical Specifications for Remote Northern Indigenous Housing

2018-present



**A Path to Healthy Housing:** Two Row Architects - Fort Severn First Nation, ON  
(with KPMB Architects, drawing by Rosa Newman)

## Technical Specifications for Remote Northern Indigenous Housing

2018-present



**A Path to Healthy Housing:** Alfred Waugh of Formline Architecture in Deline, NWT

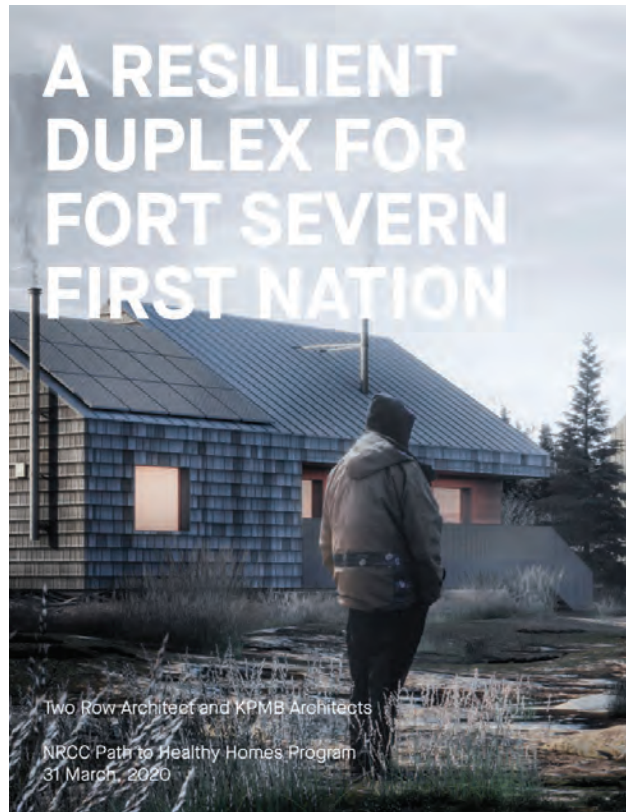
# Technical Specifications for Remote Northern Indigenous Housing

2018-present



**A Path to Healthy Housing:** Alfred Waugh of Formline Architecture - Deline, NWT

Two Row Architects / KPMB (Brian Porter & Matt Hickey with Laurence Holland)

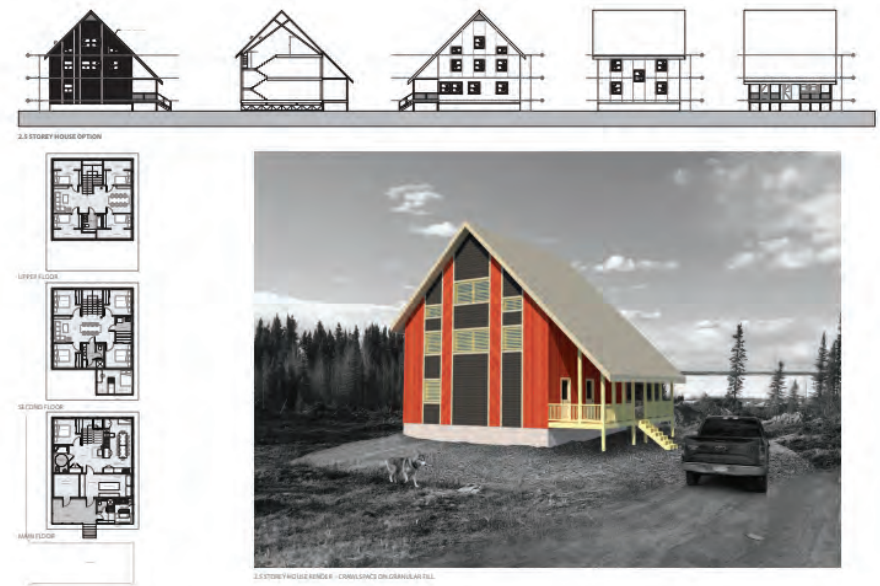


Formline Architecture (Alfred Waugh)



Smoke Architecture (Eladia Smoke & Larissa Roque)

Obsidian Architecture (Kelly Bapty)



Indigenous Services Canada

**Indigenous Homes Innovation Initiative**

2019-2022

# Feds to test limits of Indigenous housing ideas through new contest

APTN National News

Aug 07, 2018

[Share](#)
[Tweet](#)



The Trudeau Liberals are offering Indigenous communities \$30 million in prize money as part of a contest that could end up rewriting the rules about how the federal government funds badly needed housing on-reserve.

Key to the contest is to draw in private sector builders to help finance the construction and repairing of homes in First Nations, Inuit and Metis communities.

The Liberals have made overtures to the private sector to help cover the cost for on-reserve infrastructure to close the estimated \$30 billion needed to repair and upgrade homes

British Columbia

## Concerns mount over federal government's Indigenous housing contest

Contest for communities to win \$30 million toward housing projects called 'Hunger Games of on-reserve housing'

[Courtney Dickson](#) · CBC News · Posted: Aug 13, 2018 1:11 PM PT | Last Updated: August 13, 2018



Statistics Canada found that 20 per cent of First Nations people live in over-crowded homes. (Government of Canada)

The Canadian government will launch a contest this fall for First Nations communities to win \$30 million toward innovative housing projects on reserve.



- Impact Measurement (Vancouver Island University)
- IHII Webinar Series (Project Updates, Sharing, etc.)
- Process
  - Phase 1 - Accelerator Requirements
    - Feasibility Study
    - Formal Community Endorsement
    - Itemized Class D Estimate
    - Proof of securing additional funding
    - Operations and Maintenance Plan
  - Phase 2 - Construction
    - A) Technical
    - B) Implementation

### *IHII Steering Committee*



From left to right: Sean Willy, Will Goodon, Pamela Glode-Desrochers, Marcel Lawson-Swain, Dawn Madahbee Leach. Terry Audla is not pictured.

<https://impact.canada.ca/en/case-studies/indigenous-homes-innovation-initiative#section1>

**Launch of the Indigenous Homes Innovation Initiative (IHII),  
January, 2020 - Nanaimo, BC**



# PURPOSE BUILT

## TOOLKIT 1.0

# Planning for Indigenous Impact

A guide to impact-driven design and development

**MASS.**

Canada



Indigenous Services  
Canada

Services aux  
Autochtones Canada

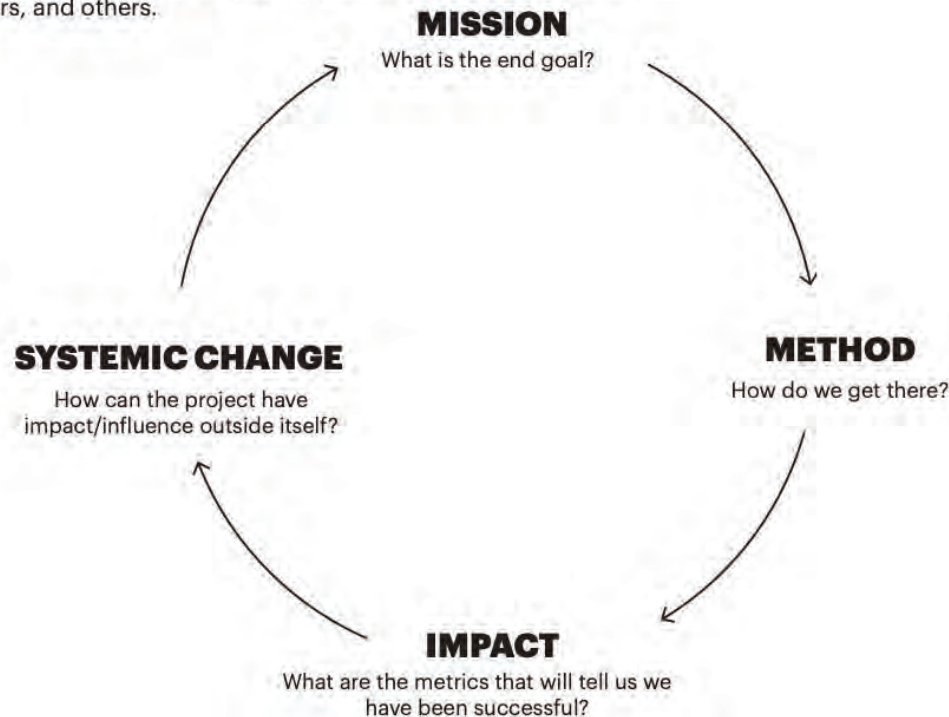
# IMPACT-BASED DESIGN METHODOLOGY (IDM)

p. 1 of 6

## What is the Impact-Based Design Methodology?

The Impact-Based Design Methodology (IDM) is a process that allows a broad array of individuals and groups to develop a common language which can drive the success of a project. By identifying a shared mission we can maintain our vision as the project becomes more complex. The IDM is an exercise broken into four parts: mission, method, impact, systemic change. This is a non-linear process and it's ok to go back. In fact, it's designed to provoke a dialogue that results in clarity.

The IDM is a great tool to distill the intentions for your project to foster conversations with funders, community members, and others.



Whitefish Lake First Nation #128, Alberta

Financing Model by **Whitefish Lake First Nation**, Landscape and Community Design by **MASS Design Group**, Housing by **David T Fortin Architect Ltd.**

**Neighbourhood** | Site Plan



Drawing by MASS Design Gp (Taylor Sinclair, Josphe Kunkel)

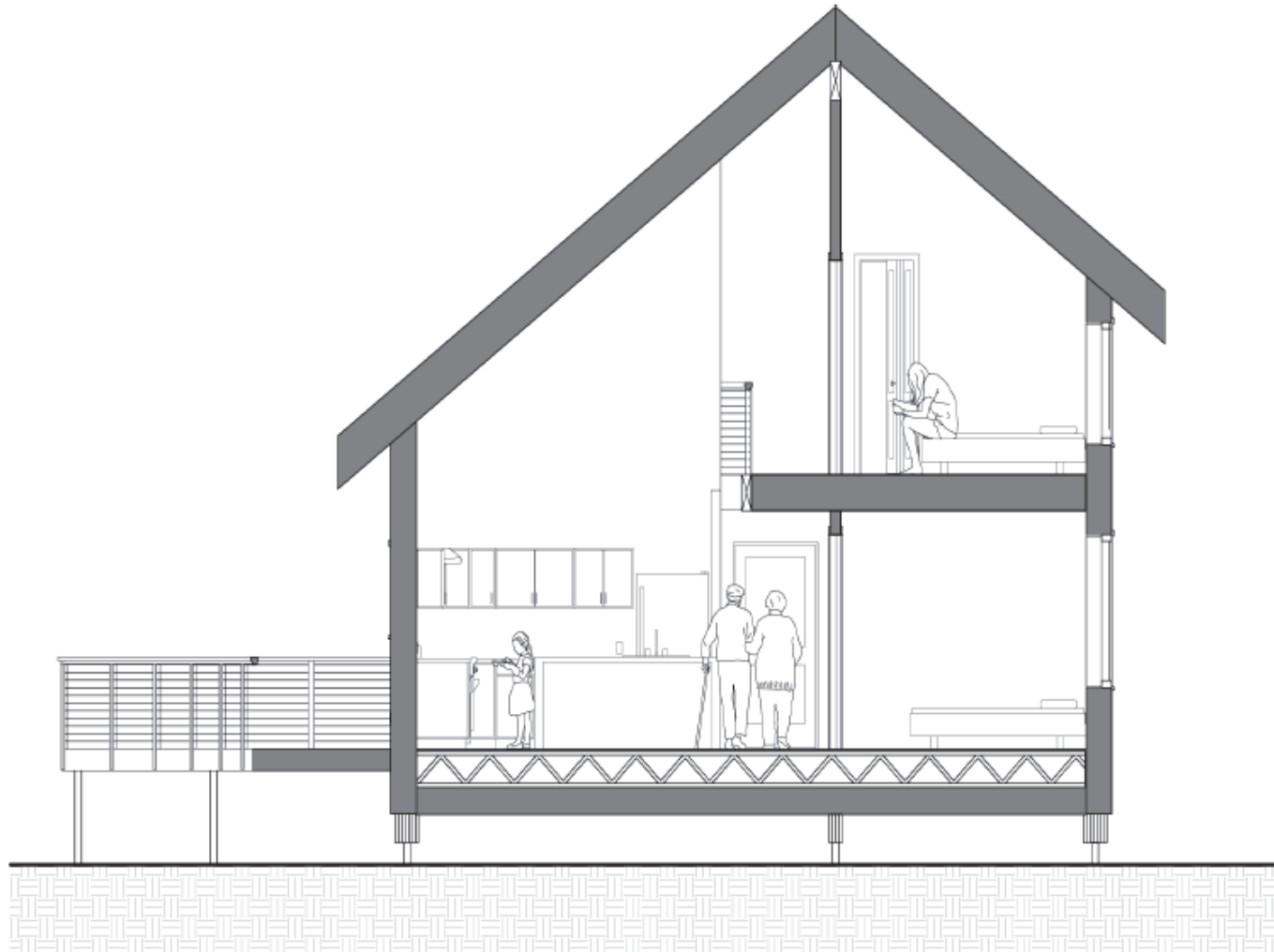
Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



WFL #128 V2 HOME | SECTION

0 1 2 M

Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



Whitefish Lake First Nation #128, Alberta

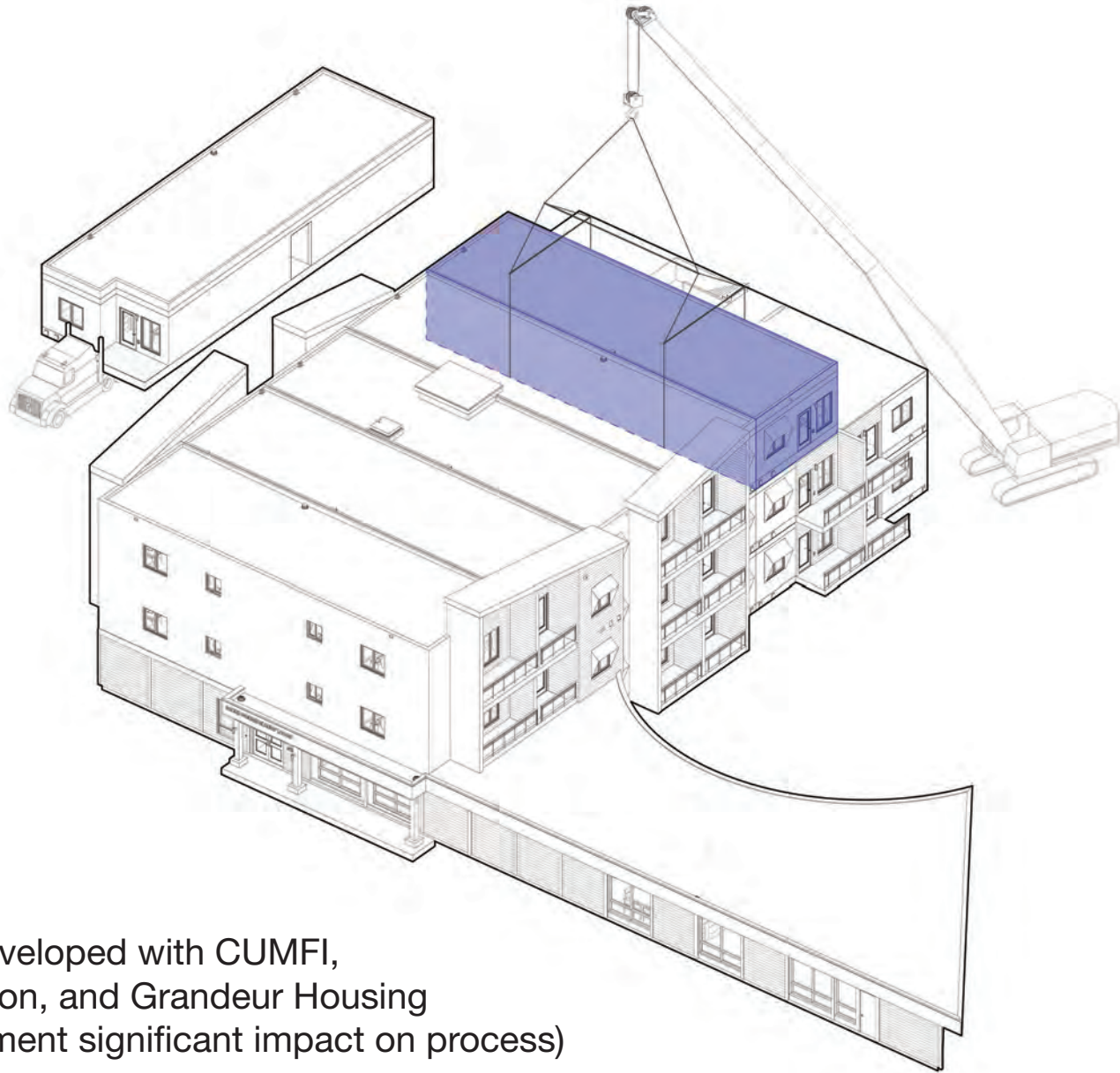
Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Integrated design developed with CUMFI,  
Big Block Construction, and Grandeur Housing  
(Indigenous procurement significant impact on process)

Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Exterior informed by Traditional  
Métis Housing and Stories

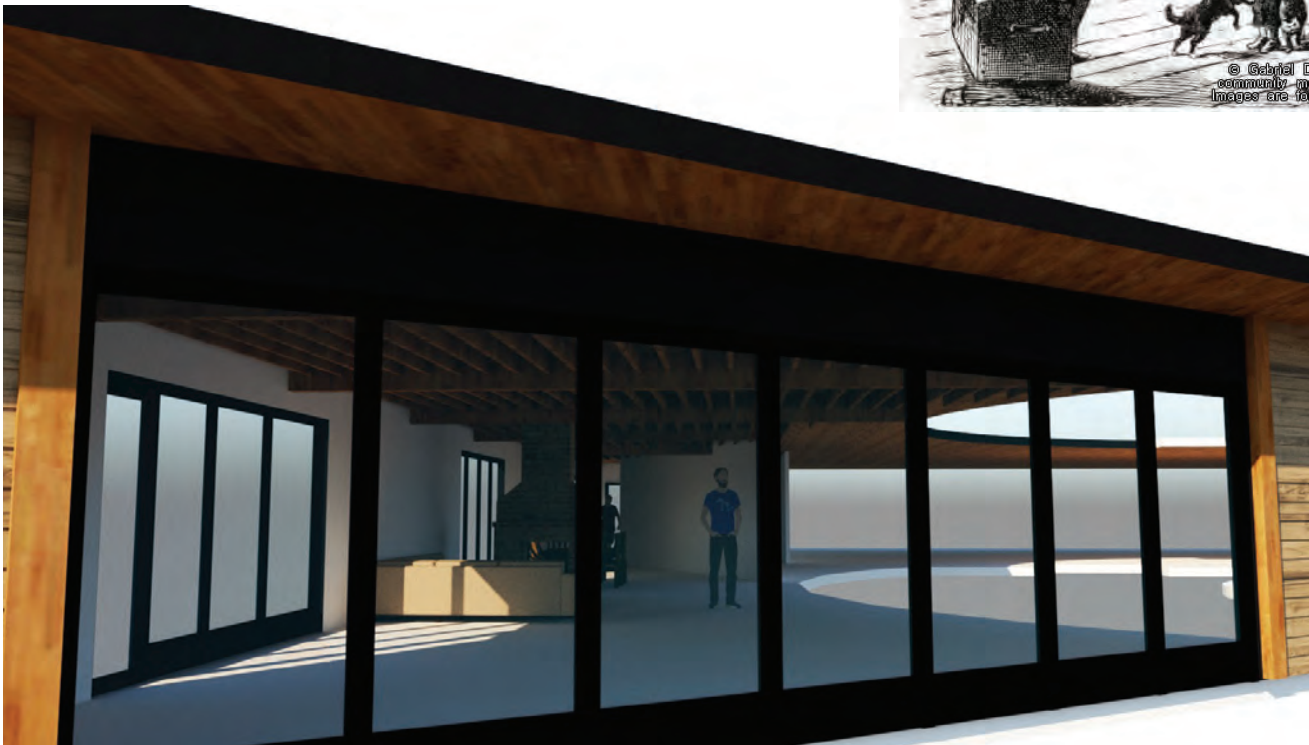


<https://mysteriesofcanada.com/manitoba/indian-tales-of-the-canadian-prairies/>



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK

Amenity Wing inspired by  
Traditional Métis Folk Home



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Métis-inspired interiors



Drawings by Jason Surkan

Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



**Round Prairie Elders' Lodge (2021), Saskatoon, Saskatchewan**



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Central Urban Métis Federation Inc. (CUMFI)  
**Round Prairie Elders' Lodge**, Saskatoon, SK



Opaskwayak Cree Nation  
**Universal Utility Core**

The OCN Universal Utility Core project “...focuses on the most expensive, labour intensive, and operationally critical components of a house and aims to reduce its cost, increase quality, and construct quantities of utility core units that can meaningfully address this challenge in OCN and potentially throughout the Northern and Remote community regions through commercial manufacturing controlled by Indigenous communities.”

# OPASKWAYAK CREE NATION FEASIBILITY STUDY



DAVID T FORTIN ARCHITECT  
March, 2021



## Opaskwayak Cree Nation **Universal Utility Core**

Continuation of work initiated by the One House Many Nations project (OCN, Professor Alex Wilson, Professor Jacob Mans and the Decentralized Design Lab, others).

Ideas

### **One House Many Nations: Building sustainable homes to solve a national crisis**



CBC Radio · Posted: Oct 15, 2018 10:41 AM ET | Last Updated: October 15, 2018



One House Many Nations House Prototype presented at EDIT 2017 (Expo for Design, Innovation & Technology).

# Opaskwayak Cree Nation

## Universal Utility Core

### CORE TAXONOMY

Decision Variables - 32 options

- 1- Whole or Component
- 2- Node or Linear
- 3- Macro or Micro
- 4- New or Retrofit
- 5- On Grid or Off Grid

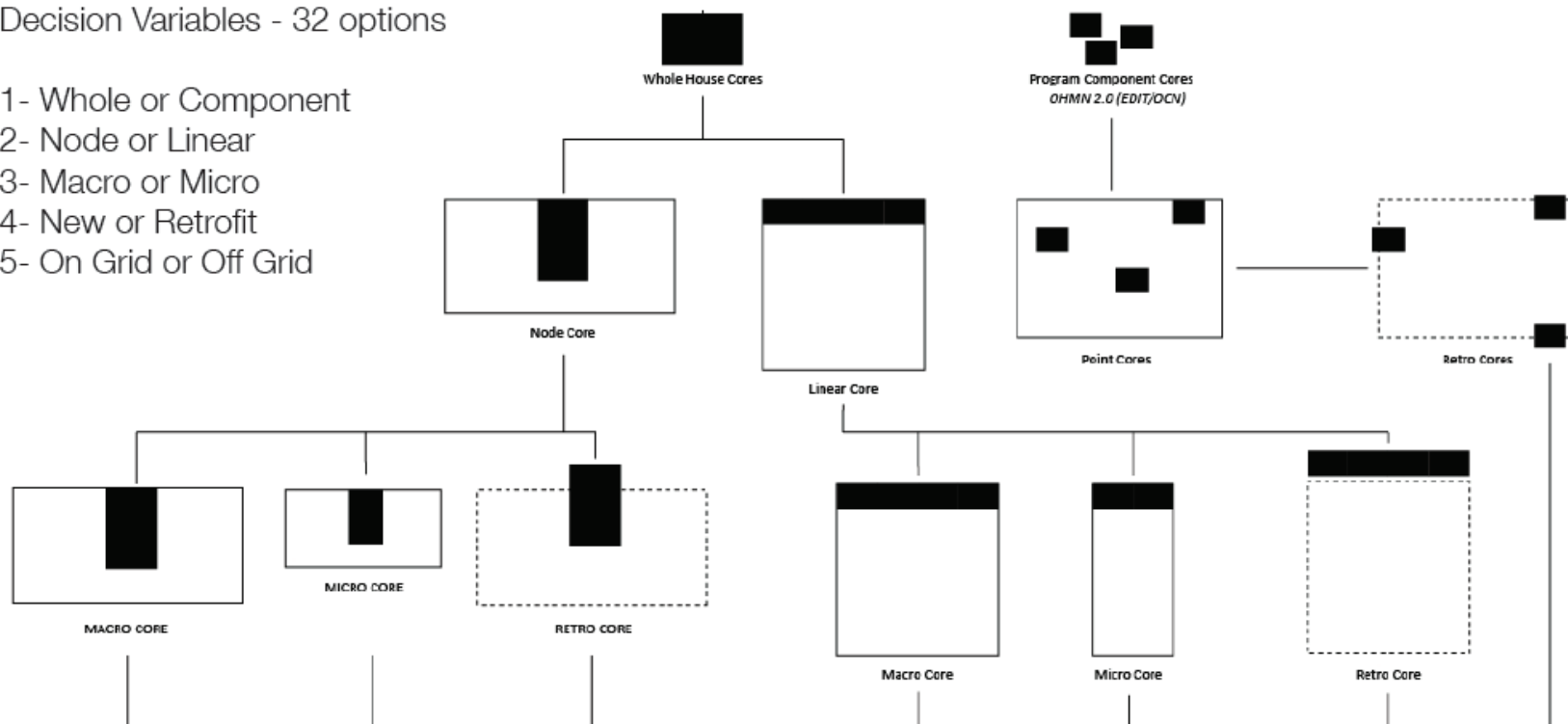


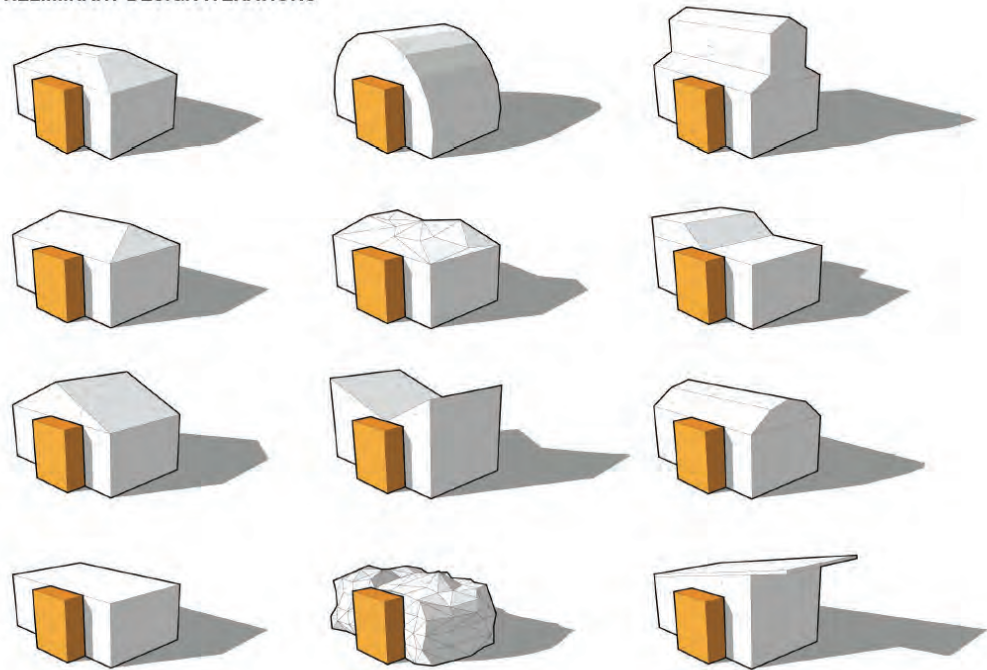
Figure 61. Preliminary UUC designs by Decentralized Design Lab.

Image courtesy of Jacob Mans, Decentralized Design Lab

# Opaskwayak Cree Nation

## Universal Utility Core

### PRELIMINARY DESIGN ITERATIONS



### ROOF DESIGN ITERATIONS

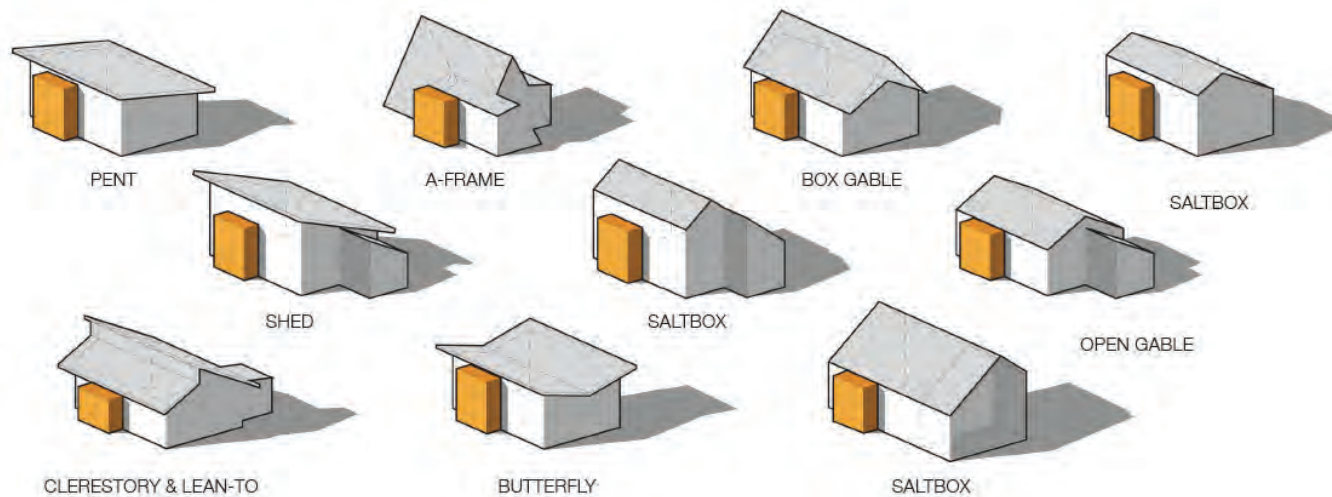
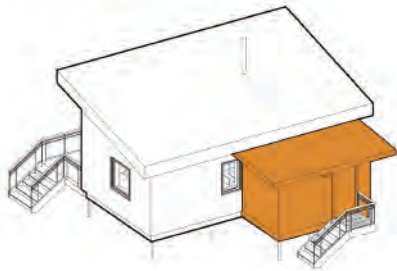


Figure 62. Preliminary roof designs by David T Fortin Architect.

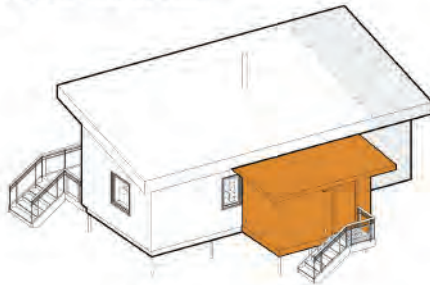
# Opaskwayak Cree Nation

## Universal Utility Core

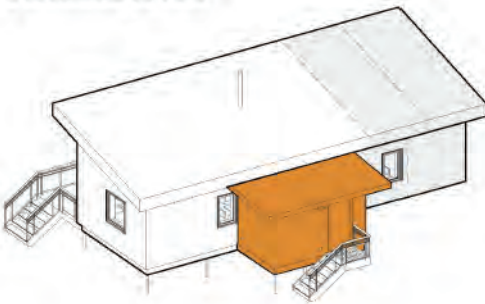
**STANDARD 1 BEDROOM**



**2 BEDROOM OPTION**

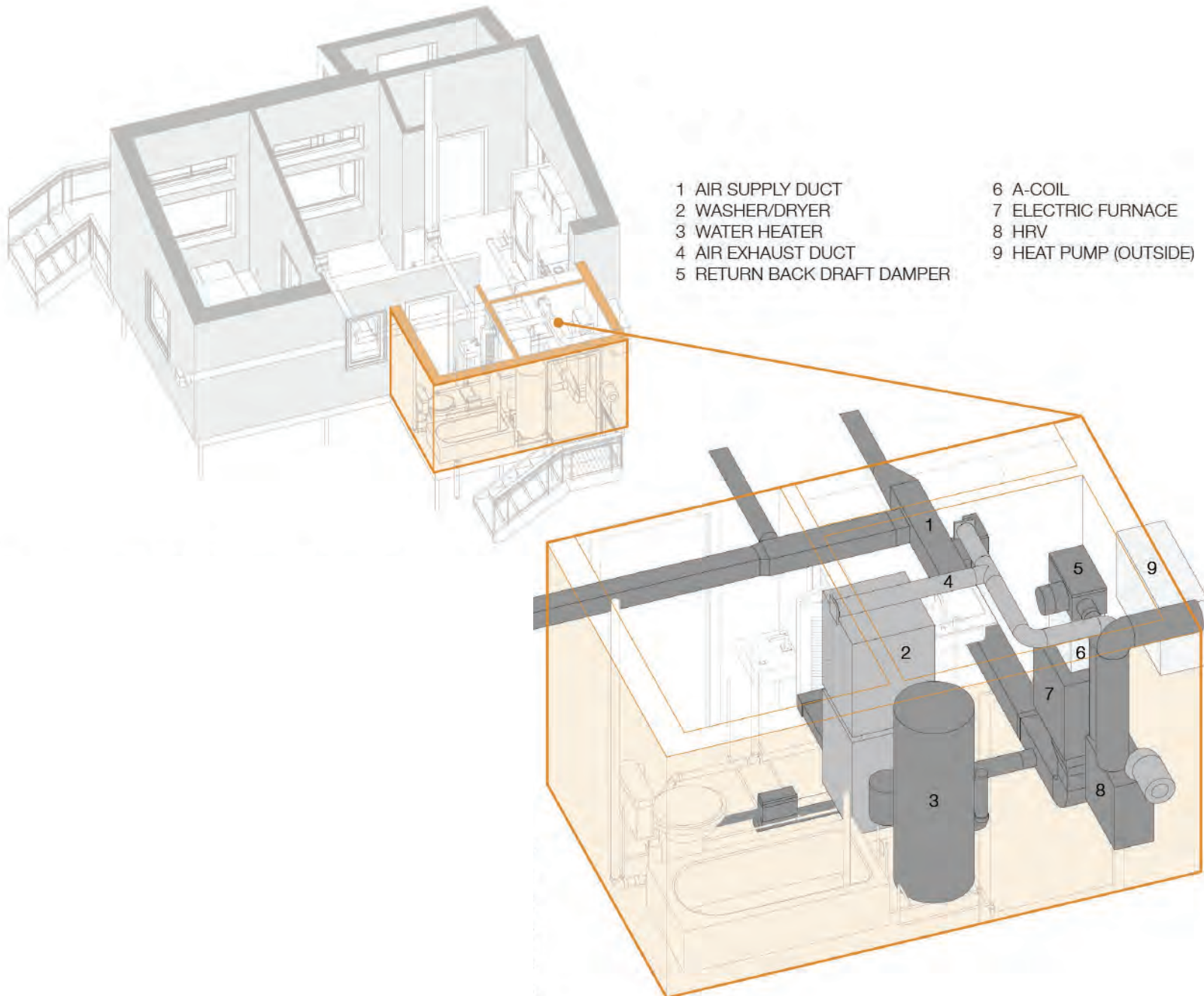


**3 BEDROOM OPTION**



# Opaskwayak Cree Nation

## Universal Utility Core



Opaskwayak Cree Nation  
**Universal Utility Core**



Opaskwayak Cree Nation  
**Universal Utility Core**



Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



Whitefish Lake First Nation #128, Alberta

Landscape and Community Design by **MASS Design Group**, Housing by **DTFA**



# Opaskwayak Cree Nation Universal Utility Core

## Manufacturing Precedents

### Blokable

#### PREFABRICATION

Location: Greater Seattle, USA

Per Square Foot Cost: \$150 to \$350

Blokable aims to meet the demand for affordable housing in the USA. One strategy for accomplishing this is their approach to real estate as a service, to eliminate the struggle for profit and risk avoidance that occurs in many construction projects.

To develop projects Blokable uses what they call the BlokSense Development Platform that they explain "... is the coordination of enterprise resource planning and supply-chain management, Revit and cloud-based 3D part design and engineering, and prefabrication machining software."

The units Blokable builds are metal framed boxes with infill steel studs that have a glass rock exterior sheathing. Units are fully finished on the interior in the factory then shipped to site where they are assembled into largely 1-3 story developments, with the capacity to reach 6 stories. The goal is for 95% of work to be completed in the factory.<sup>105</sup>

Figure 68. Interior of the Blokable manufacturing facility.



Figure 69. Prototype on Blokable's factory floor.

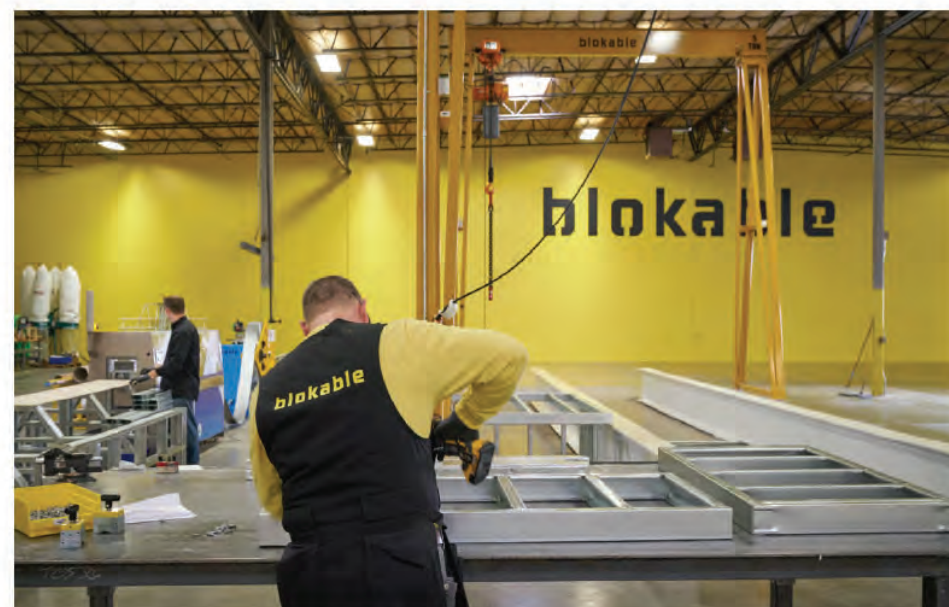


Figure 70. A worker in Blokable's Vancouver, Washington based manufacturing site.

# Opaskwayak Cree Nation Universal Utility Core

## BC Passive House Factory

### PREFABRICATION

Architect: Hemsworth Architecture  
Structural Engineer: Equilibrium Consulting Inc.

Location: Pemberton, British Columbia  
Date Completed: 2014

Size: 16,145 ft<sup>2</sup> (1,500 m<sup>2</sup>)  
Manufacturers: Zehnder, Optiwin, Structurlam

This factory is composed of several different wood products including a glue-laminated timber (Glulam) post-and-beam structure, cross-laminated timber (CLT) walls and prefab roof panels. The exterior cladding is a fir and larch screen which covers the entire exterior of the building.<sup>115</sup>

The factory is organized into two parallel bays, approximately 15 m (50 ft) wide each containing a one-tonne gantry crane which runs the length of the bays. A two story office is located in the southwest corner of the building containing the mechanical room, showroom, meeting room, bathroom, and offices. There is very little large machinery and tools in the space, with most of the space in the facility occupied by material or finished building products that are prepared to be shipped.<sup>116</sup>

Due to increased demand, the facility was expanded with an additional 22,000 ft<sup>2</sup> making the facilities overall footprint 40,000 ft<sup>2</sup>. The new structure uses prefabricated wall and roof panels on a mass timber structure with open web steel joists. The facility also required some new tools seen above to increase precision and production capacity.<sup>116</sup>

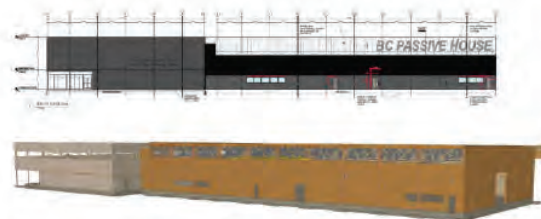


Figure 93. BC Passive House technical drawings.



Figure 94. Interior BC Passive House.

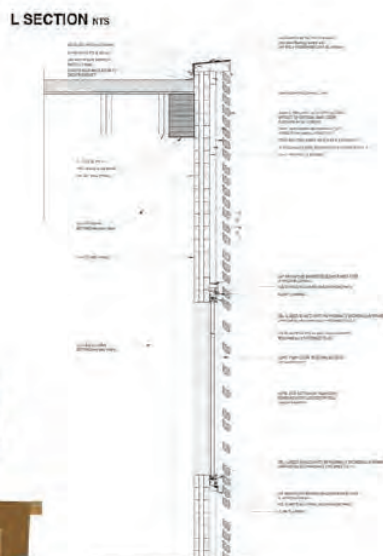


Figure 95. Factory wall detail.



Figure 96. Exterior of BC Passive House Factory.



Figure 97. Assembly line in BC Passive House.

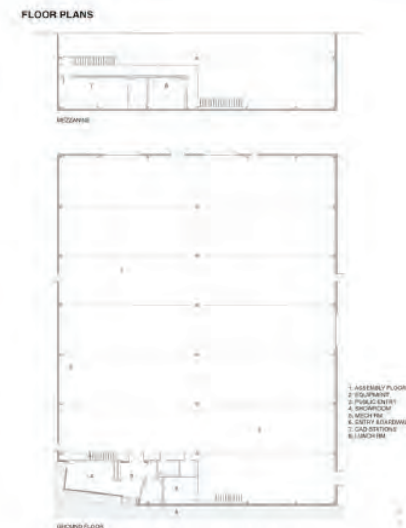


Figure 98. Factory floor plan.

# Opaskwayak Cree Nation Universal Utility Core

## L-Shaped Plan

### FACILITY LAYOUT

The L-shaped plan is a smaller footprint with fewer stations and a lighter more flexible machinery setup. This plan has less permanent tooling and storage, likely requiring more labour but would allow for more flexibility in the build process. A 1-ton ceiling crane would serve the "Cutting Station", "Wall Assembly" station and "Wall Assembly and Finishing" station. The 1-ton crane also replaces the butterfly table in the linear plan serving to flip the walls for insulating and sheathing, then assists workers to mount the walls on to the floor plate. The transfer of the framed Utility Core from the "Wall Assembly and Finishing" station to the "Mechanical and Electrical" station would be a 90 degree rotation and would require swivel castors and either a few workers or a forklift to move it to the "Mechanical and Electrical" station.

The Receiving yard for raw materials is located on the East side of the building and the Shipping yard and Mechanical receiving is located to the South. The Administration is located between these two entrances on the Southeast corner of the building. Storage is largely located on the West side of the building for access to the finishing, mechanical and electrical installation phases. The insulation storage is located along the North wall of the Administration block and would need to be kept at a low height to allow the supervisor to see into the main assembly space.

### TOOLS



Figure 122. Automatic Crosscut Saw.



Figure 124. Heavyweight swivel castors (16).

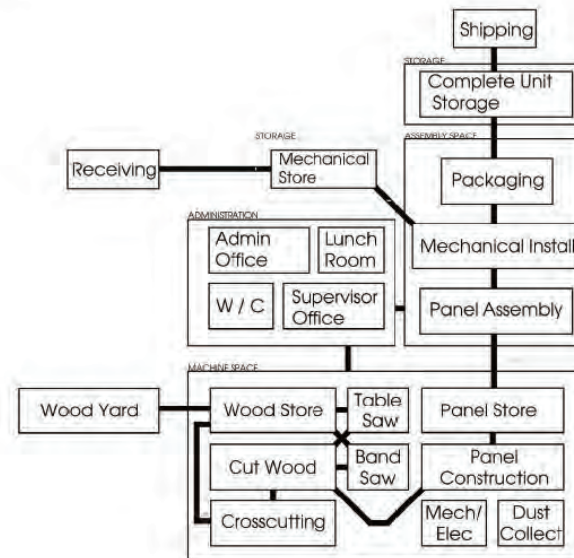


Figure 123. Miter Saw, Band Saw and Table Saw.



Figure 125. 1-Ton Overhead Crane (2).

## L-SHAPED SCHEMATIC PLAN



TURNING THE PANELS 90 DEGREES LEFT WILL REQUIRE EITHER A MONORAIL OR A FORKLIFT TO MAKE THE TURN. ALTERNATIVELY A CARRY SYSTEM OR SOME FORK COULD BE USED BUT COULD POTENTIALLY CREATE AN ERGONOMIC RISK.

### TOOLS



Figure 126. 5-Ton Rolling Gantry Crane.

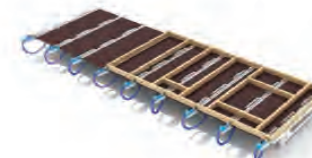


Figure 127. Flexible Framing Table.



Figure 128. Radial Arm Saw.

DAVID T. FORTIN ARCHITECT INC.

57 Albany Street  
Sudbury, Ontario  
P0C 2T4

General Notes

1. DRAWINGS ARE NOT TO BE SCALED
2. IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND OMISSIONS TO THE PRIME CONSULTANT
3. GENERAL CONTRACTOR SHALL BECOME RESPONSIBLE AND HOLD LIABLE FOR THESE PLANS AND ALL CONSTRUCTION PRACTICES ONCE CONSTRUCTION COMMENCES
4. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL COUNTERSIGNED

CONSTRUCTION ISSUE / REVISIONS

No.	Revision / Version:	Date:
01	GEN DRAWING SET	2020/09/02

UNIVERSAL UTILITY CORE  
MANUFACTURING FACILITY

HIGHWAY 10, CON MB



GFP

PROJECT NO.: 0091

DRAWN BY: Author

CHECKED BY: Checker

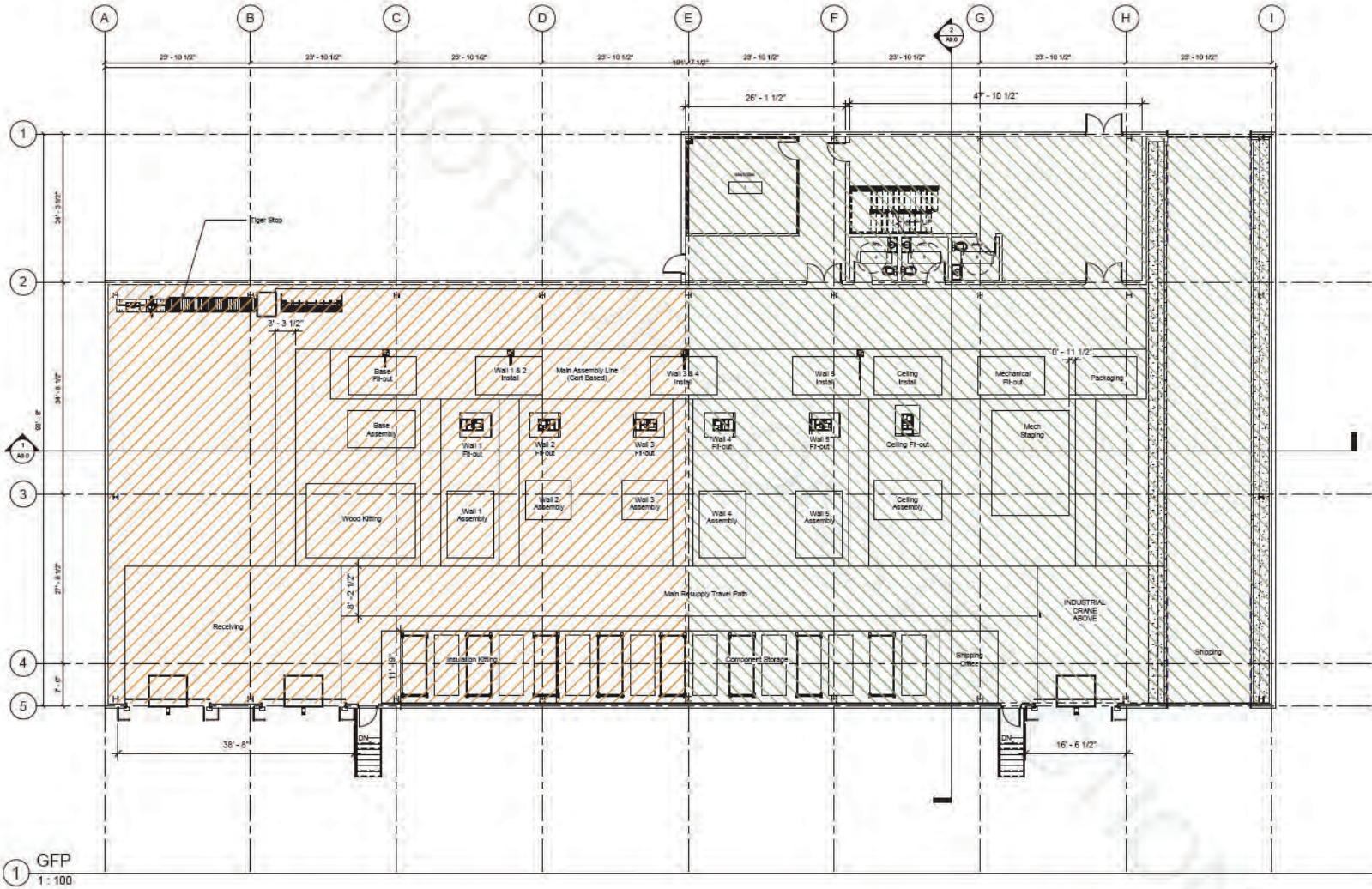
DATE: 2020/09/02

SCALE: As indicated

REVISION NO.:

SHEET:

A2.0



LEGEND

	DENOTES ROOM NAME AND NUMBER REFERENCE		ELECTRICAL PANEL REFERS TO SPEC		DENOTES DOWNSPOUT
	DENOTES PARTITION ASSEMBLY TAG REFERENCE		DENOTES WATER CLOSET		DENOTES BATHWATER COLLECTION
	DENOTES WALL ASSEMBLY TAG REFERENCE		DENOTES WATER HEATER		DENOTES ROOF OVERHANG
	DENOTES DOOR AND DOOR NUMBER		FLOOR DRAIN LOCATION TAG BY MECHANICAL		
	DENOTES EXTERIOR WALL ASSEMBLY		DENOTES PHASE 01		
	DENOTES WOOD STUD PARTITION		DENOTES PHASE 02		
	100mm O/A, WEBSPIR TILE ON FILTER FABRIC ROOF				

NOTES

1. ALL PARTITIONS ARE TO EXTEND TO U/S OF TOP PLATE ABOVE, UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS ON FLOOR PLAN ARE FROM STUD FACE TO STUD FACE OR FACE OF EXTERIOR FINISH MATERIAL

SMOKE & CO2 ALARMS  
ALL SMOKE AND CO2 ALARMS WITHIN A SMOKE DWELLING UNIT SHALL BE INTERCONNECTED

STRUCTURAL NOTES

- DENOTES 2" SCREW PILE FOUNDATION
- DENOTES 6" X 6" SPF WOOD POST
- DENOTES BUILT UP WOOD BEAM, REFER TO FOUNDATION PLAN FOR SIZES
- DENOTES LINTEL SIZE

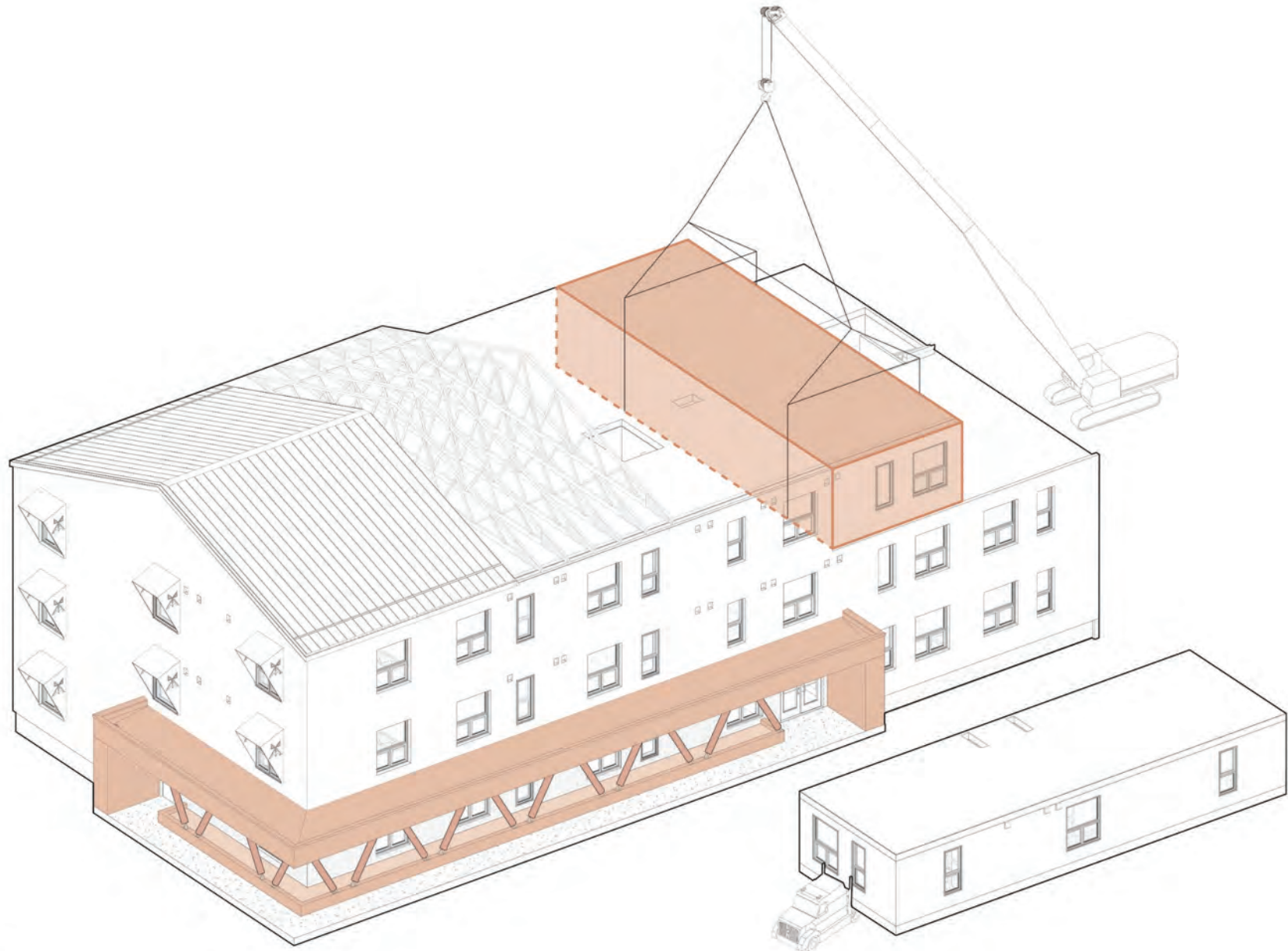
CONSTRUCTION NOTES

- WOOD STAIR, HANDRAIL AND GUARD TO BE DESIGNED AND BUILT IN ACCORDANCE WITH NATIONAL BUILDING CODE REQUIREMENTS. CONTRACTOR TO FIELD VERIFY AND COORDINATE NUMBER OF STAIR RISERS REQUIRED.

misatimosimôwin mîhkowâp (Horse Dance Lodge)

**Silver Sage Developments/ Regina Treaty/Status Indian Services (RT/SIS)**

Regina, SK



misatimosimôwin mîhkowâp (Horse Dance Lodge)

**Silver Sage Developments/ Regina Treaty/Status Indian Services (RT/SIS)**

Regina, SK



misatimosimôwin mîhkowâp (Horse Dance Lodge)  
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misatimosimôwin mîhkwâp (Horse Dance Lodge)  
**Silver Sage Developments/ Regina Treaty/Status Indian Services (RT/SIS)**  
Regina, SK



misatimosimôwin mîhkowâp (Horse Dance Lodge)

**Silver Sage Developments/ Regina Treaty/Status Indian Services (RT/SIS)**

Regina, SK



Tipi design by Linda Obey Lavallee

misatimosimôwin mîhkowâp  
(Horse Dance Lodge)  
**Silver Sage Developments/  
Regina Treaty/Status Indian  
Services (RT/SIS)**  
Regina, SK





# Venice Biennale of Architecture

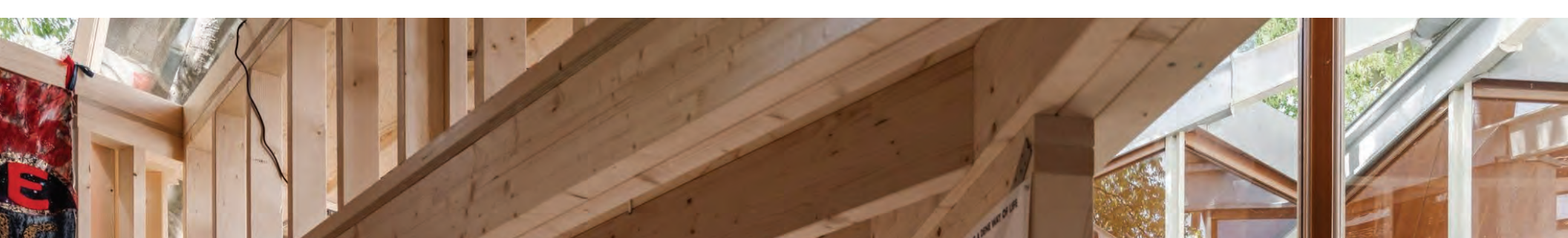
Photo: John Hill

## Architects Against Housing Alienation (AAHA) to represent Canada at the 2023 Venice Biennale of Architecture

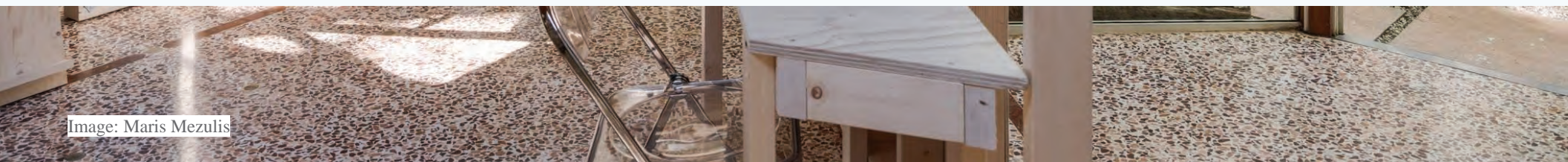
The Canada Council for the Arts is proud to announce that **Architects Against Housing Alienation (AAHA)** will represent Canada in the 18th International Architecture Exhibition – La Biennale di Venezia, from May 20 to November 26, 2023.







TO END HOUSING ALIENATION IN c\an\acla  
WE DEMAND...<sup>1</sup> LAND BACK! <sup>2</sup> ON THE LAND  
HOUSING! <sup>3</sup> FIRST NATIONS HOME BUILDING  
LODGES! <sup>4</sup> REPARATIVE ARCHITECTURE. <sup>5</sup> A  
GENTRIFICATION TAX! <sup>6</sup> SURPLUS PROPERTIES  
FOR HOUSING! <sup>7</sup> INTENTIONAL COMMUNITIES  
FOR UNHOUSED PEOPLE! <sup>8</sup> COLLECTIVE  
OWNERSHIP! <sup>9</sup> MUTUAL AID HOUSING! <sup>10</sup> AMBIENT  
ECOSYSTEMS COMMONS!





# A Path to Healthy Housing V2: Venice Biennale 2023



demand

AND  
G!

Not Airtal  
Pap

To end housing alienation in clatskanie we demand...

# FIRST NATIONS HOME BUILDING LODGES!



One House Many Nations, Idle No More, John M. Adams Windsor University, Ben Wilson University of Washington, David T. Fortin Architect Inc., Grounded Architecture, SLO Architecture, Uroki Ono and David Wilson University of Victoria

# HOME BUILDING LODGES

DEFENSE  
OF  
HOUSING

Grounded Architecture

Uroki Ono and David Wilson

## Housing as Cosmology







TO END HOUSING ALIENATION IN c\a\n\a\d\a  
WE DEMAND...

**<sup>3</sup>FIRST NATIONS HOME BUILDING  
LODGES!**

We demand home building design lodges tied to housing manufacturing facilities on reserves, to build capacity within communities by grounding the production of houses and their components, in community values, language, and education.



g alienation in plainclothes

# T NAT BUIL ODGES

Sylvia McAdams, Windsor University  
Architecture Inc. SOLO Architecture Lancelotti

## Housing as Cosmology

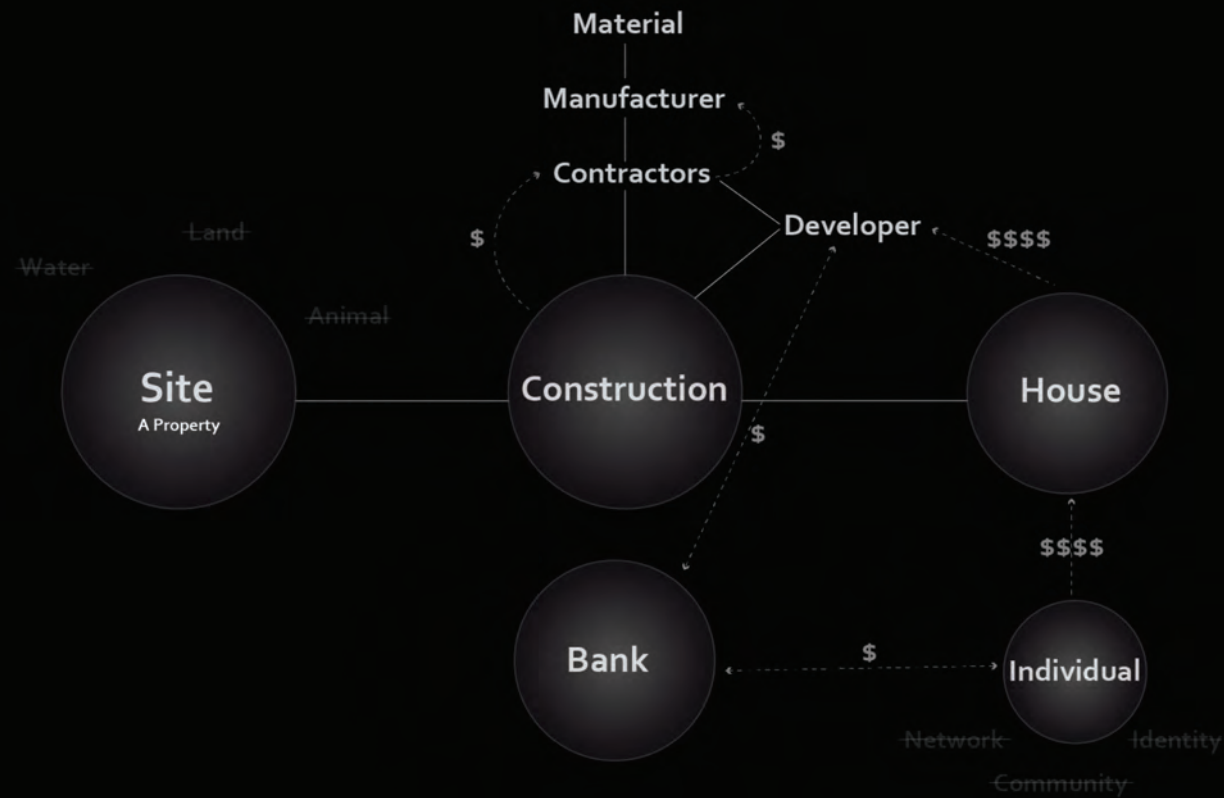
The housing crisis and its impact on the built environment is a complex issue that has been discussed in many ways. This project explores the relationship between housing and cosmology, and how the built environment can be designed to reflect a new cosmology.

The project is a response to the housing crisis and its impact on the built environment. It explores the relationship between housing and cosmology, and how the built environment can be designed to reflect a new cosmology.



Jamaica to Toronto  
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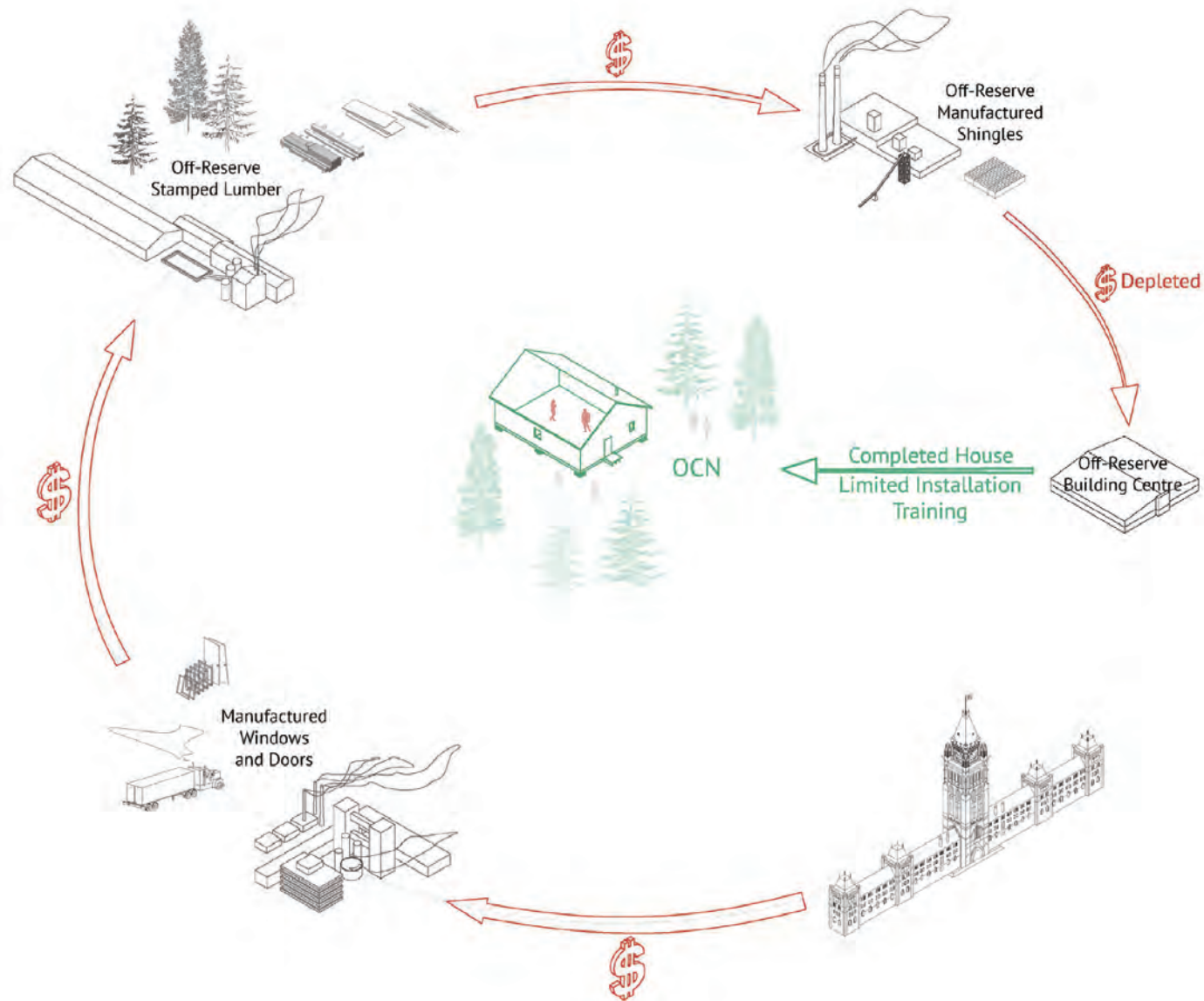
CIRCLES



# Housing As Commodity



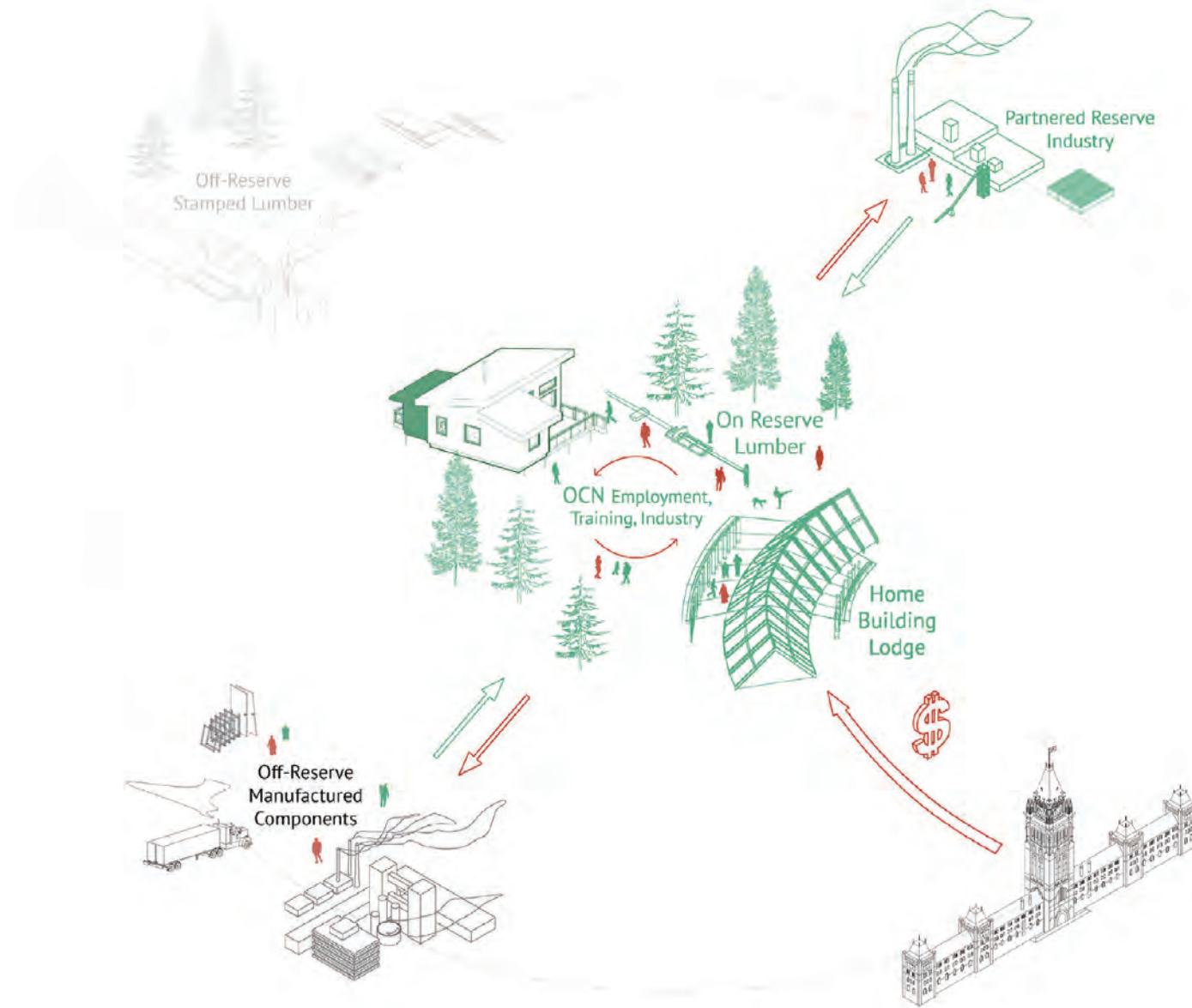
# Housing As Commodity



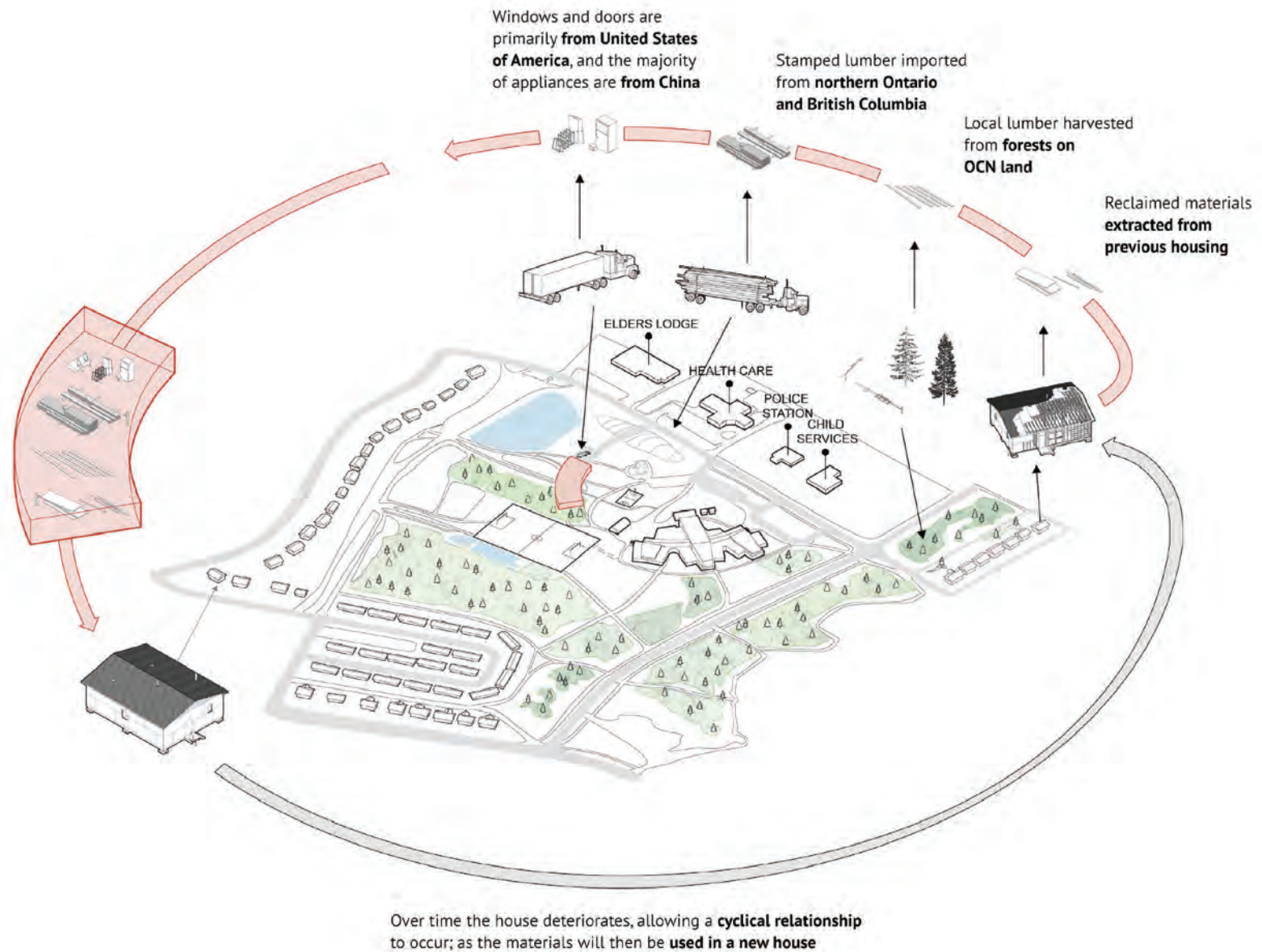
# Housing As Commodity



# Housing As ~~Commodity~~ Cosmology



Housing As ~~Commodity~~ Cosmology



# Housing As ~~Commodity~~ Cosmology

Emily Kok, Charles Barber, Grisha G



# How an Inuit factory producing modular homes aims to ease Nunavut's housing shortage

In Arviat, a facility set to open in 2025 would put Inuit tradespeople to work building modular units tailored to the North's needs

KELLY GRANTHEALTH REPORTER

ARVIAT, NUNAVUT

PUBLISHED DECEMBER 2, 2022UPDATED DECEMBER 4, 2022



A mother and child sleep side-by-side in this bedroom in Arviat, Nunavut, while four other family members share the second bedroom and another eight sleep on mattresses in the living room. The family is hoping to move into a four-bedroom home. PHOTOGRAPHY BY FRED LUM/THE GLOBE AND MAIL

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On the outskirts of the Nunavut hamlet of Arviat, past the polar bear alert signs and the packed-to-the-rafters schools and the community freezer full of caribou meat, lies a gravel pad on which an Inuit company is building something unprecedented.

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A photograph of a modern, multi-story modular building. The building has a white facade with a large, colorful geometric pattern in blue, red, and yellow. The building is surrounded by trees and a clear blue sky.

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**The Otipemisiwak Centre (2025), Kamloops, British Columbia (with Stantec)**



**wâpikwaniy (2011)**, Gregory Scofield and Amy Briley  
Image from Gabriel Dumont Institute Collection



**The Otipemisiwak Centre (2025),** Kamloops, British Columbia (with Stantec)



Dave Pranteau Aboriginal Children's Village, Patrick Stewart Architect





"What relations matter?"