Finding a Future for the Past

the process of regenerating spaces
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Problem Statement.

- How can architects address the changing use of space within a building over time?
Statement of Intent.

- **Typology.**
  - Adaptive Reuse and Restoration

- **Theoretical Premise/Unifying Idea.**
  - Architects address the changes in the use of space over time by exploring the needs of individuals
  - A designer’s duty is to address change and adapt to the necessary needs of individuals & spaces
  - Investigation of the original loss in use of a building can lend to an understanding of a more successful use in the future
  - Community becomes an inherent component to the success of this project

- **Project Justification.**
  - Reuse of buildings is a more personal motive of creating sustainable designs to rural communities
  - Historic attachments sparks interest to the designer as they redraw and redesign century old ideas
Proposal.

- **Revive while regenerating**
  - Bring a sense of community back to a rural town which has been exposed to significant population decline due to economic hardships and changes in technology
  - Marmarth was once driven by the railroad is experiencing a shift in technologies as natural resources are being embarked upon
Site.

*Marmarth, North Dakota*

- Badlands
- Train Depot
Program.

• **1st National Bank Building** [regenerate].
  • Marmarth Historical Society Offices (Main Level & Basement)
  • Paleontologist Offices & Research Space (Main & 2nd Level)

• **Barber Auditorium** [regenerate].
  • Microbrewery (Basement & Main Level)
  • Bistro (Main Level) – Kitchen
  • Meeting Room (Main Level)
  • Auditorium (2nd Level)

• **Inn** [new construction].
  • Conference Space (1 Main & 2nd Level)
  • Kitchen & Storage for Continental Breakfast (Main Level)
  • Inn Rooms (Main & 2nd Level)
  • Mechanical & Storage (Basement)
• Barber Auditorium & 1st National Bank Building
• 1st National Bank Facade
Site for new construction (Inn)
Parti.

- Regenerating spaces...the process of taking an existing material and creating the possibility to continually be transformed and regenerated into something new.
Process.

Models & Drawings
Process.

Models & Drawings
Process.
Process.

*Site Development*
Process.

Midterm Plans

Basement Level

1\textsuperscript{st} Level

2\textsuperscript{nd} Level
Elevation Studies.
Atrium Development.
Brewing Process.

(a) Steinecker-Merlin System – (b) Typical Boiling Program
Materials.

Inspiration from surroundings

Rammed Earth
- Badlands Stratifications

3 Materials: brick, sandstone, & copper

Colored CMUs - Allison Block

Colored Corrugated Steel - Existing Steel Sheds
Axonometric.
Section & Details

- **Window Section**
  - Wood Blocking
  - Copper Flashing
  - Low-E Glazing
  - Frame
  - Gypsum Board
  - Metal Stud
  - Vapor Barrier
  - Insulation
  - Weather Barrier
  - Colored CMU

- **Rammed Earth Process**

- **Rammed Earth**

- **Building Section**
Atrium

Colored CMUs

Green Roof

Old Arch into New Space

Green Wall

Colored Concrete Floor
Brewery & Bistro
Inn Room Balconies