

The background features a watercolor-style illustration of green leaves and branches, with a faint, light-colored grid pattern overlaid. The leaves are rendered in various shades of green, from light to dark, with soft, painterly edges. The grid consists of thin, light gray lines forming a rectangular pattern across the entire page.

Force of Nature

- *Interconnecting Architecture & Nature* -



ABSTRACT





“HOW CAN INTERCONNECTING ARCHITECTURE AND NATURE WITHIN RESIDENTIAL BUILDINGS AFFECT RESIDENTS IN A POSITIVE WAY?”

NARRATIVE





“Our surroundings built and natural alike, have an immediate and a continuing effect on the way we feel and act, and on our health and intelligence.”

- Tony Hiss -
The Experience of Place



ASKING WHY

- Cognitive Benefits
- Physical benefits
- Mental Benefits
- Emotional Well-Being
- Improved Attention
- Lower Stress
- Better Mood
- Reduced risk of Psychiatric Disorders
- Upticks in Empathy and Cooperation

- NATURE WITHIN
ARCHITECTURE -

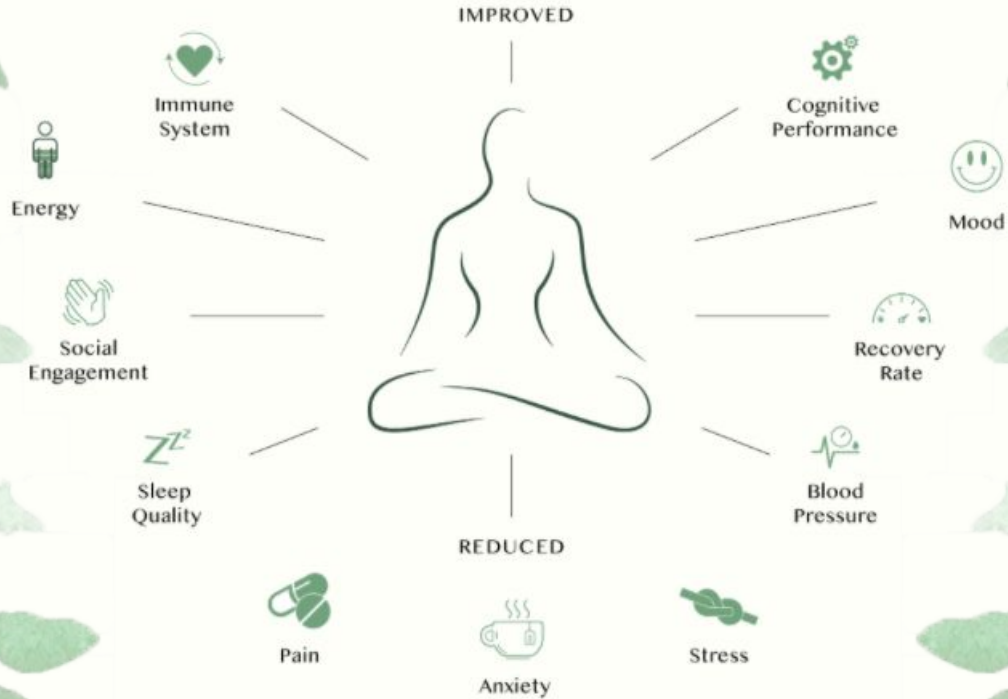


- ARCHITECTURE
WITHIN NATURE -



“GOOD ARCHITECTURE
LETS NATURE IN.”
- MARIO PEI -

BENEFITS OF BIOPHILIA



PHYSICAL
HEALTH



MENTAL
HEALTH

EASING THE EMOTIONAL WELL-BEING THROUGH GREENERY & NATURE

- Visiting Parks
- Nature Walks
- Walking with Others
- Watching Birds
- Gardening
- Access to and Views of Nature
- Improved Air Quality and Ventilation
- Natural Lighting
- Improved Acoustics
- Natural Materials and Calming Colors

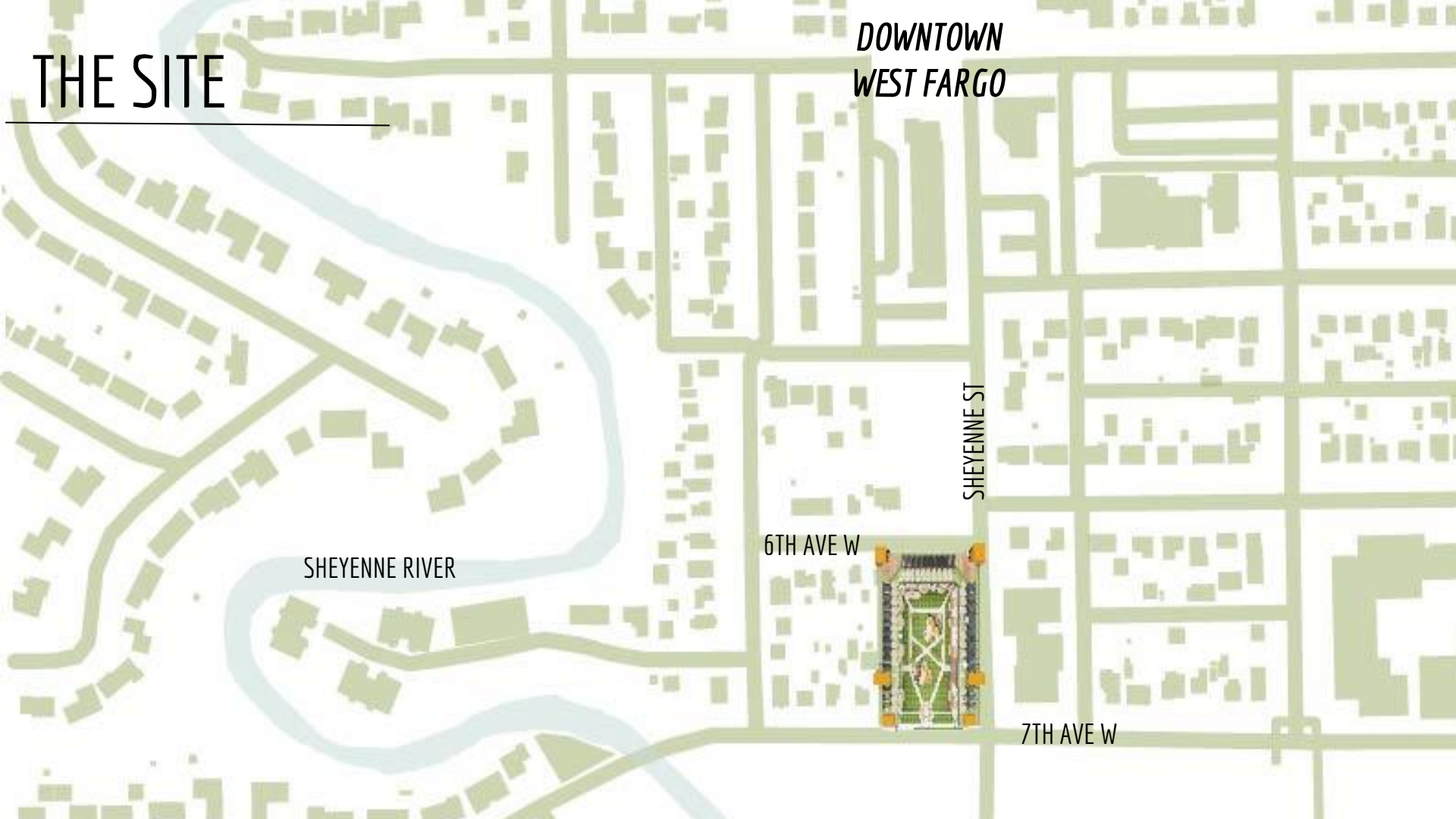


The image features a background of watercolor-style green leaves in various shades, ranging from light to dark green. A faint, light gray grid pattern is overlaid on the background. The text 'THE DESIGN' is centered in a bold, black, sans-serif font, with a thin horizontal line extending from its base.

THE DESIGN

THE SITE

*DOWNTOWN
WEST FARGO*



SHEYENNE RIVER

6TH AVE W

SHEYENNE ST

7TH AVE W

CITIES NEED GREEN

NEARBY NATURE

Outside Our Doors Report - the Nature Conservancy.

DOESN'T NEED TO BE EXPANSIVE TO HAVE A POSITIVE IMPACT ON PEOPLE IN URBAN AREAS.



PROMOTES WELL-BEING

People are happier, experience significantly higher well-being, and show significantly lower mental distress when they live in areas with greater amounts of green space.

BOOSTS ECONOMY

Shoppers claim they are willing to spend 9-12% more for goods and services in central business districts having high-quality tree canopies.

MITIGATES POLLUTION

Green walls and roofs are an eye-catching way to combat pollution, improve air quality, and provide a thermal buffer from extreme temperatures.

REDUCES FLOODING BY MANAGING STORMWATER AND DECREASES POLLUTION

Using engineered solutions like bioswales and raingardens solves problems while contributing to more green space.

HELPS CHILDREN LEARN

Children with ADHD concentrate better following a 20-minute walk in an urban park than they do after equivalent walks in other urban settings.

INSPIRES PHYSICAL ACTIVITY

Residents living in areas with more green space are more than three times as likely to be physically active.

IMPROVES NEIGHBORHOOD SAFETY

Residents with higher amounts of nearby nature report fewer violent and minor crimes, and fewer incivilities.

MAIN DESIGN ELEMENTS

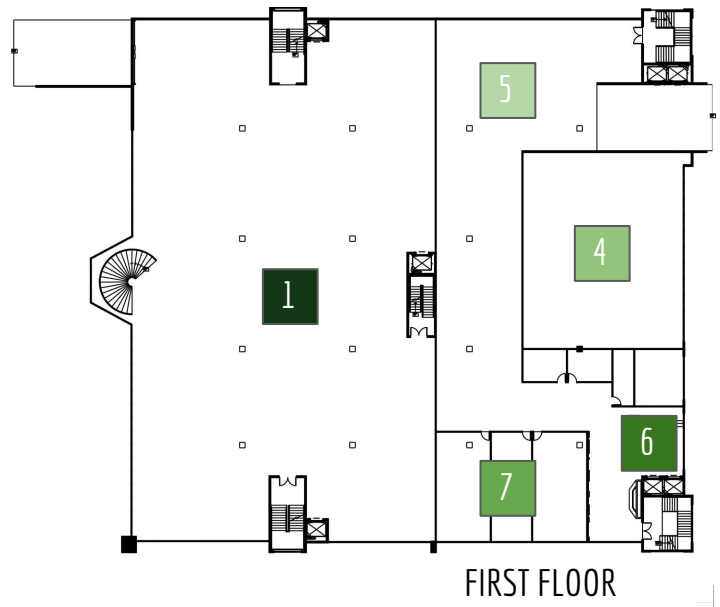
- Intimate Spaces
- Natural Materials
- Natural Elements
- Natural Light
- Natural Views
- Greenery
- Living Walls
- Water Features



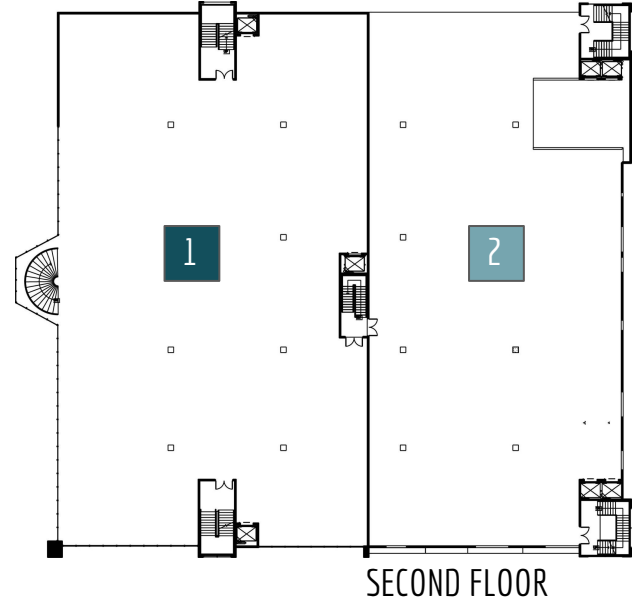
A collage of various natural materials including wood, stone, and plants, arranged in a mosaic pattern. The materials are cut into irregular shapes and separated by white borders. The colors range from light wood to dark stone and vibrant green plants.

NATURAL MATERIALS & ELEMENTS

FLOOR PLAN/SECTERED BUILDING



FIRST FLOOR



SECOND FLOOR

1 LIBRARY

2 LOBBY

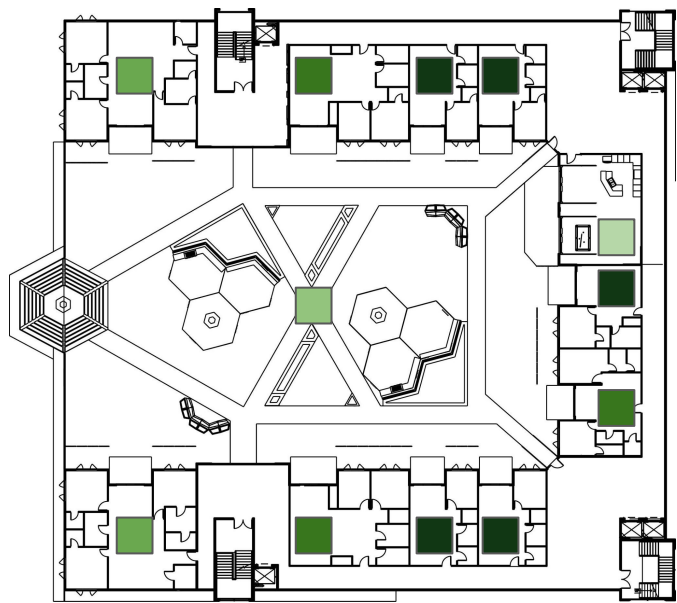
3 RETAIL

4 RESTAURANT

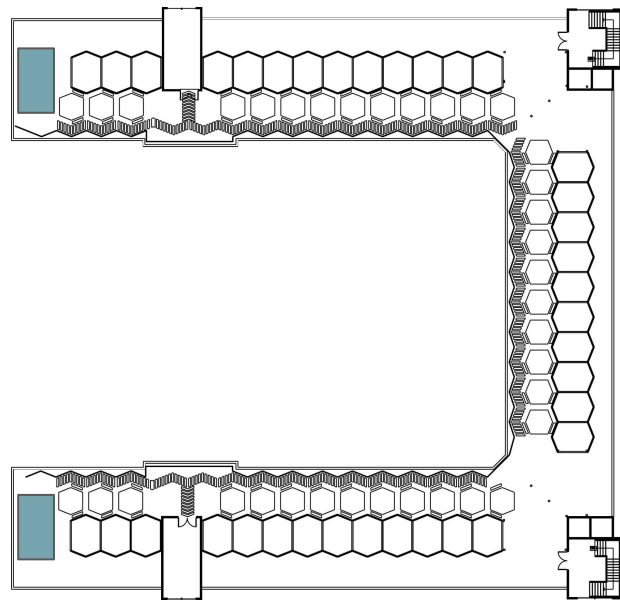
5 MECHANICAL

1 LIBRARY

2 PUBLIC PARKING



THIRD FLOOR



ROOFTOP

1 1 BED

2 2 BED

3 3 BED

4 COURTYARD

5 COMMUNITY ROOM

GREENHOUSES

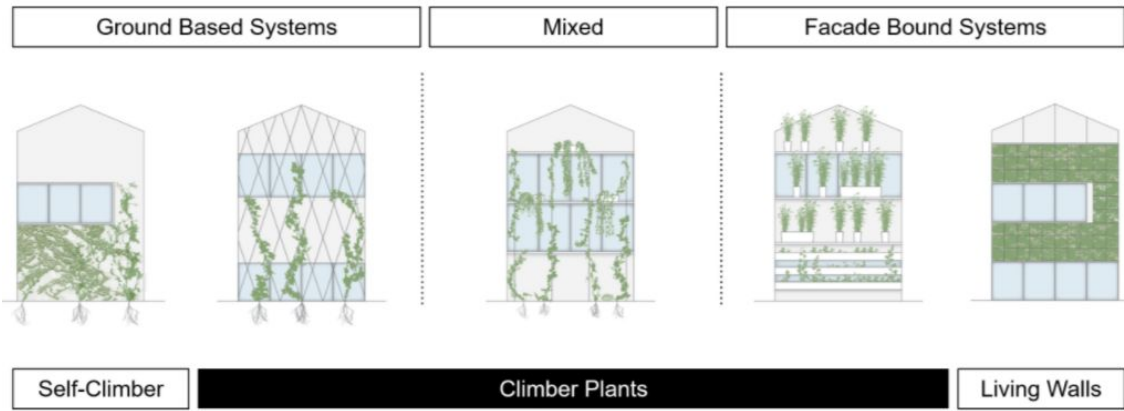
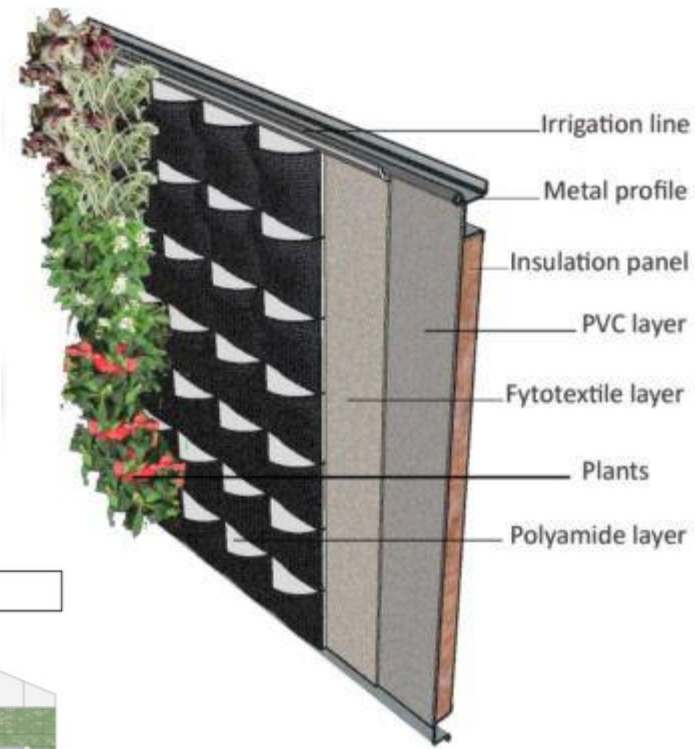
MECHANICAL ROOM



NORTHEAST ELEVATION



SOUTHEAST ELEVATION



LIVING WALL SYSTEM

LOBBY





BALCONY VIEW



GRILL & LOUNGE



FIREPLACE



GARDENS



SEATING



ROOFTOP GREENHOUSES



LARGE GARDENS & WATER FEATURES



RECREATIONAL GREEN SPACE

COMMUNITY ROOM





THANK YOU

MARIAH LEASE
INTERCONNECTING ARCHITECTURE & NATURE
2023 NDSU THESIS PRESENTATION

FORCE OF NATURE

INTERCONNECTING ARCHITECTURE AND NATURE

Resilient and adaptive, this design takes cues from nature. Through green, an eco-friendly building that is a testament to the power of nature and the resilience of the community. Through an integrated green design, the building is designed to be a model of sustainability, while also being a place where people can connect with nature and each other.

As the building's design evolves, the design team has focused on creating a building that is not only a place of work and living, but also a place of connection. The building is designed to be a place where people can connect with nature and each other. The building is designed to be a place where people can connect with nature and each other.



GRILL & LOUNGE

The Grill & Lounge is a central outdoor space that provides a place for residents to gather and enjoy the outdoors. The Grill & Lounge is a central outdoor space that provides a place for residents to gather and enjoy the outdoors.

FOOTPATH

The Footpath is a central outdoor space that provides a place for residents to walk and enjoy the outdoors. The Footpath is a central outdoor space that provides a place for residents to walk and enjoy the outdoors.



BENCHES

The Benches are a central outdoor space that provides a place for residents to sit and enjoy the outdoors. The Benches are a central outdoor space that provides a place for residents to sit and enjoy the outdoors.



ROOFTOP GREENHOUSES

The Rooftop Greenhouses are a central outdoor space that provides a place for residents to grow their own food and enjoy the outdoors. The Rooftop Greenhouses are a central outdoor space that provides a place for residents to grow their own food and enjoy the outdoors.

LARGE GARDEN AND WATER FEATURE

The Large Garden and Water Feature is a central outdoor space that provides a place for residents to enjoy the outdoors. The Large Garden and Water Feature is a central outdoor space that provides a place for residents to enjoy the outdoors.



RECREATIONAL GREEN SPACE

The Recreational Green Space is a central outdoor space that provides a place for residents to play and enjoy the outdoors. The Recreational Green Space is a central outdoor space that provides a place for residents to play and enjoy the outdoors.

COMMUNITY ROOM

The Community Room is a central indoor space that provides a place for residents to gather and enjoy the indoors. The Community Room is a central indoor space that provides a place for residents to gather and enjoy the indoors.



VEGETATION

The Vegetation is a central outdoor space that provides a place for residents to enjoy the outdoors. The Vegetation is a central outdoor space that provides a place for residents to enjoy the outdoors.



NATURAL MATERIALS

The Natural Materials are a central outdoor space that provides a place for residents to enjoy the outdoors. The Natural Materials are a central outdoor space that provides a place for residents to enjoy the outdoors.

