NAIT

Open House

Campus Development Plan

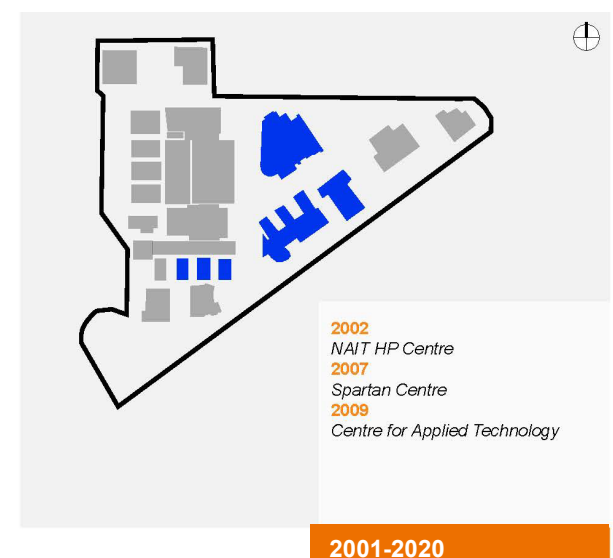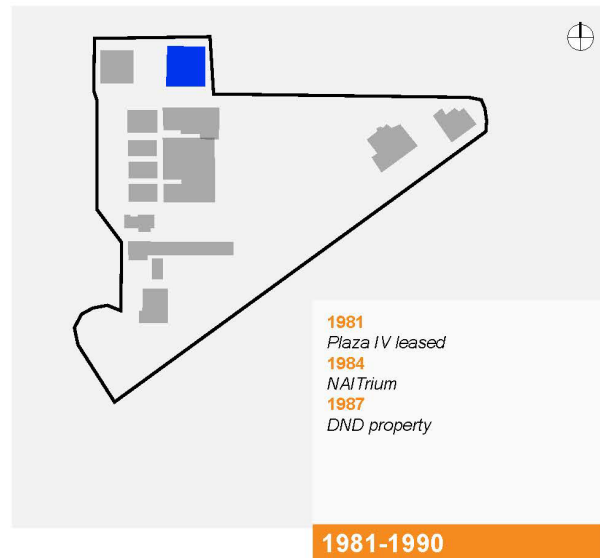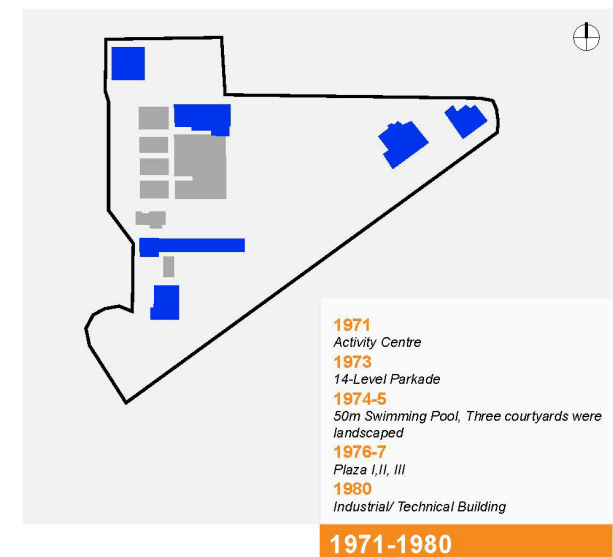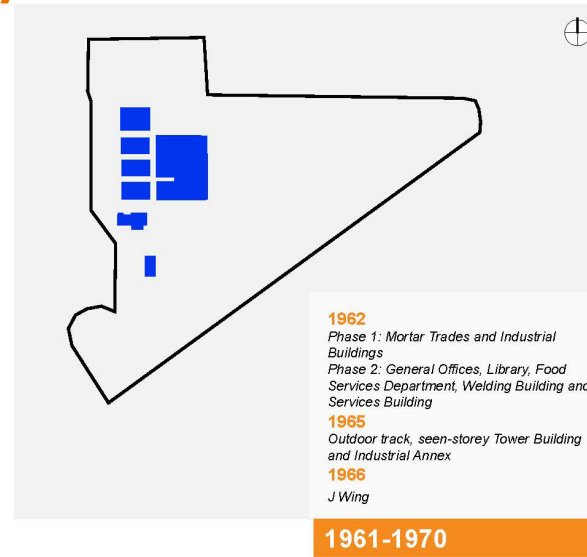February 22nd , 2021

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Agenda

- Background
- Vision
- The Campus Plan
- Questions

Campus – history

1961
21 acre site purchased through Alberta Public Works in October.

1961

1962
Phase 1: Mortar Trades and Industrial Buildings
Phase 2: General Offices, Library, Food Services Department, Welding Building and Services Building
1965
Outdoor track, seen-storey Tower Building and Industrial Annex
1966
J Wing

1961-1970

1971
Activity Centre
1973
14-Level Parkade
1974-5
50m Swimming Pool, Three courtyards were landscaped
1976-7
Plaza I,II, III
1980
Industrial/ Technical Building

1971-1980

1981
Plaza IV leased
1984
NAITrium
1987
DND property

1981-1990

1996
South Learning Centre

1991-2000

2002
NAIT HP Centre
2007
Spartan Centre
2009
Centre for Applied Technology

2001-2020

Why update the Campus Development Plan?

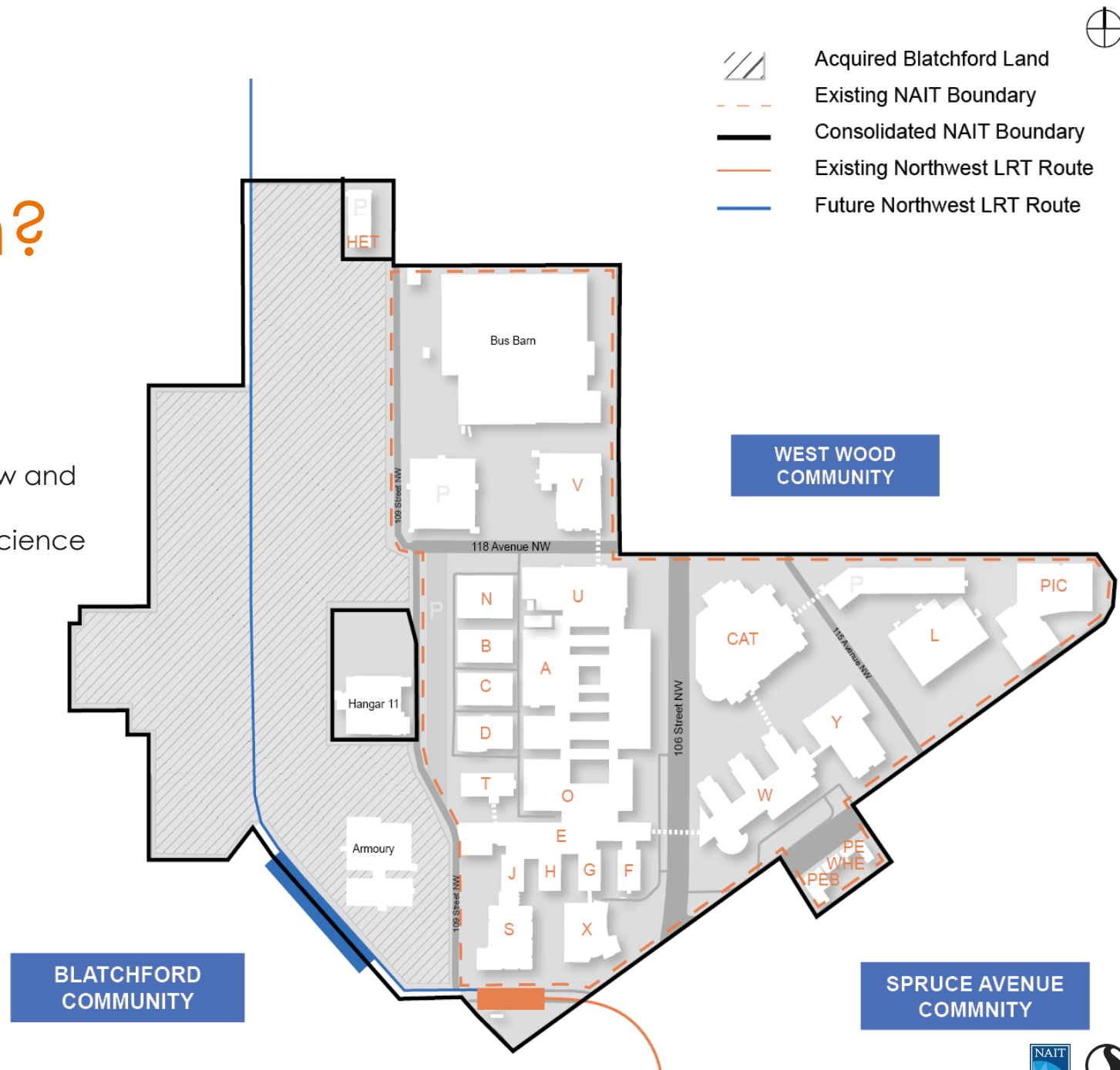**Last update in 2012**

Economic Drivers
- Demand for skilled workforce to support new and existing industries for economic growth
- Recognized increase in Trades, Research, Science and Technology, Business and Healthcare
- Adjusted academic pillars

Development Drivers
- Blatchford Finalization on Land Parcel
- Bus-Barn Land acquisition
- City initiatives for Hangar
- Finalization of LRT alignment
- Completion of CAT + PIC Buildings
- Series of restacks + moves

City Requirement
- City of Edmonton Requirement for Blatchford Deal

Institutional Vision

NAIT is a **polytechnic** that offers:

- technology-based education;
- applied research;
- hands-on teaching;
- industry-woven pedagogy.

Rooted in lifelong learning, NAIT stands on **four programmatic pillars**:

- science, technology, environment;
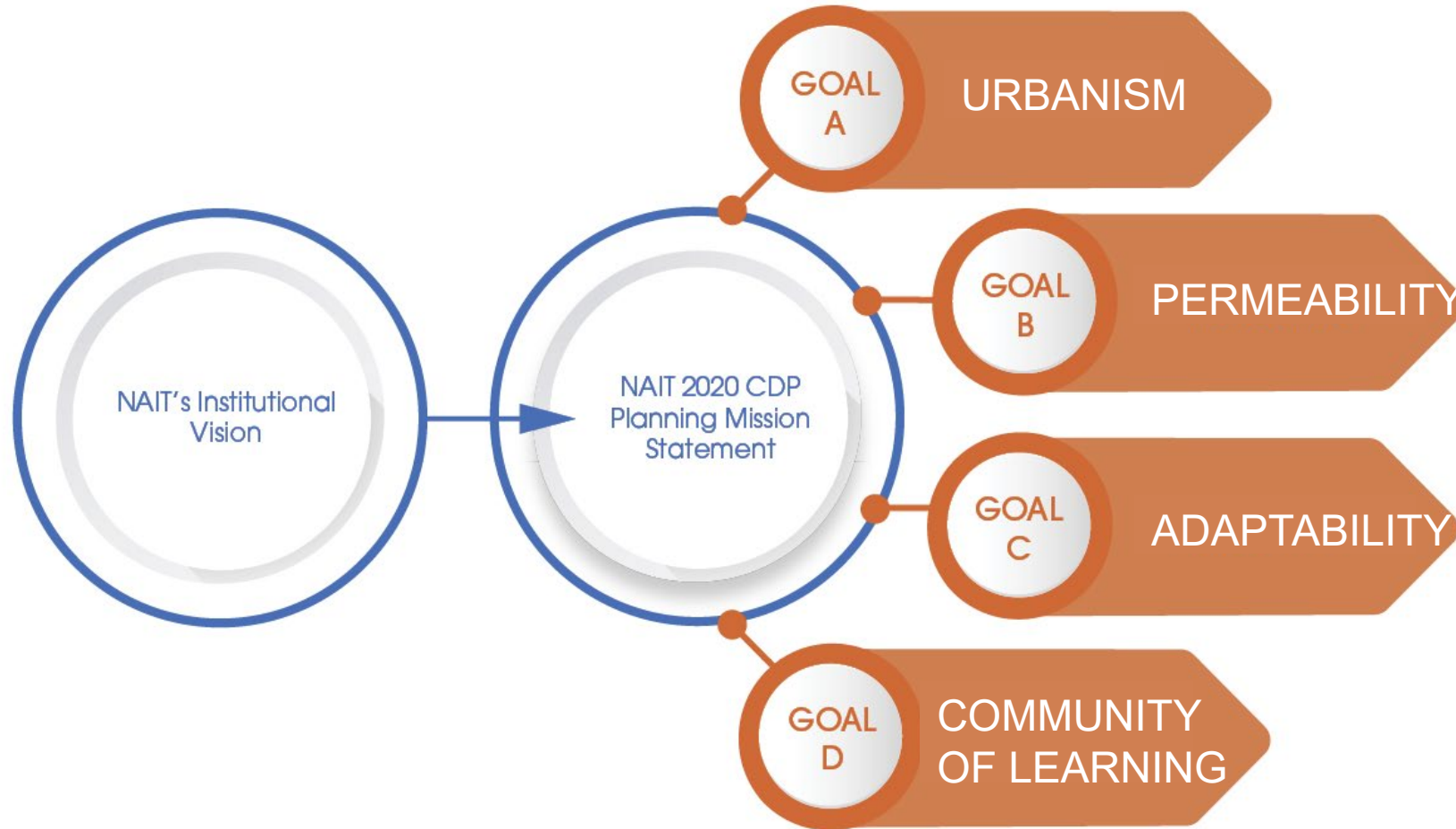- health;
- trades;
- business.

NAIT 2020 CDP Mission

- to provide a **framework** **for campus development**, informed by the physical, demographic, temporal, pedagogical, and industry contexts of NAIT;

- to foster **technology-based education, applied research**, hands-on teaching, and an industry-woven pedagogy, in support of its programmatic pillars;

- to balance the continuously evolving nature of NAIT's circumstances with the need to create an enduring, **memorable place** rooted in this region.

Approach

The Plan is framed by **4 Goals**, each one is further translated into a series of **Guiding Principles**, to provide a greater degree of specificity.

GOAL A : URBANISM

What: NAIT seeks to create a human-scale campus that is diverse, walkable, compact, vibrant and community-rich.

Why: NAIT is prominently locating near downtown and plays an important part in shaping the larger urban fabric of the city, drawing people to itself and encouraging interaction to elevate student and visitor experiences.

How: By utilizing sensible urban planning and urban design that promotes not only the campus', but a city's well-being, through the following summarized principles:

Guiding Principle 01: Mixed-use

- Encourage a mix of different uses adjacent to or combined with one another

Guiding Principle 02: Density

- Focus highest densities within 600 m of the LRT station and close to the Market District
- Sensitive transition to higher density to the West and lower density to the East.

Guiding Principle 03: Walkability

- Design campus to prioritize pedestrian and active transportation over vehicles
- Converge paths to primary pathways for more social interaction
- Create compact development to maximize pedestrian convenience, providing multiple destinations within a five-minute walk

Guiding Principle 04: Connectivity

- Link the campus to the surrounding neighbourhoods and the city overall for all modes of transportation

Guiding Principle 05: Vibrant Public Spaces

- Incorporate diverse public spaces, from quiet to highly social, for all community members

GOAL B : PERMEABILITY

What: Design will consider premeability within buildings and spaces on campus, as well as between NAIT and the surrounding communities and involved industries.

Why: As a public institution, NAIT should be physically and academically open to industry, academia, and the public. Various aspects of permeability enable NAIT's culture of hands-on, technologically driven learning, teaching and research to thrive and be experienced by a wider student body.

How: By promoting opportunities to shape spaces that promote and express interconnectedness.

Guiding Principle 06: Porosity at Ground Level

- Include public space on the ground floor in new or retrofitted buildings

GOAL C : ADAPTABILITY

What: The campus must foster change and be flexible in nature to respond to changing academic, technological, industry and social needs.

Why: NAIT must be able to adapt appropriately, to industry needs, social and cultural trends, urban development, technology change, and more, so that it can remain retain its poisition as a leading polytechnic.

How: By acknowledging the changing nature of the campus' and society's context, and being proactive in creating ways to meet future needs through innovation.

Guiding Principle 07: Flexibility

- Design buildings to be flexible and highly adaptive to changing demands and increases in student population

Guiding Principle 08: Technology

- Use "smart campus" technology in support of sustainability initiatives as well as learning and research

Guiding Principle 9: Sustainability

- Incorporate technology that supports performance tracking of sustainability and climate adaptation strategies
- Encourage environmentally sustainability building and development practices

Guiding Principle 10: Resilience

- Design campus and buildings to withstand economic fluctuations, climate change, social or cultural tendencies, and demographics.

GOAL D : COMMUNITY OF LEARNING

What: NAIT must promote all aspects of the campus as a "community of learning", and nurture and retain its identity as a place of learning rooted in its region.

Why: A sense of community centred around learning will enrich the experiences of students and staff, to continue NAIT's legacy of teaching, research, and life-long learning.

How: By ensuring that campus development takes into account the whole of the student (and staff) experience at NAIT, and by creating places that promote a sense of belonging, common experience, history, and identity.

Guiding Principle 11: Community of Learning

- Provide opportunities for all campus users to interact and learn from one another

Guiding Principle 12: Identity: Sense of Place

- Create a strong sense of campus identity that allows users to know they are at NAIT

Guiding Principle 13: Integrated Complete Community

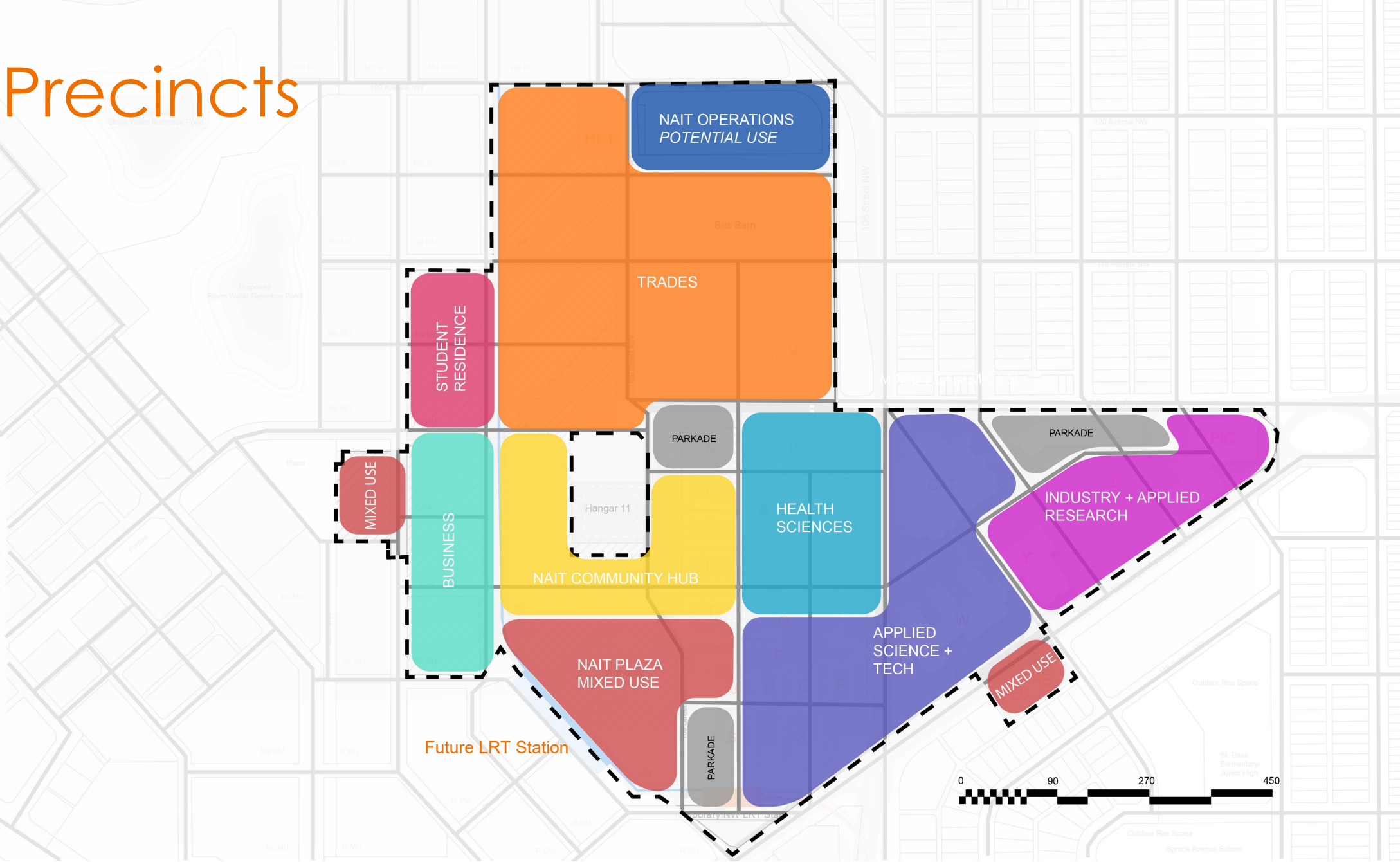- Embrace all aspects of student life, creating a year-round place to learn, live, work, play, and research

Guiding Principle 14: Community from Diversity

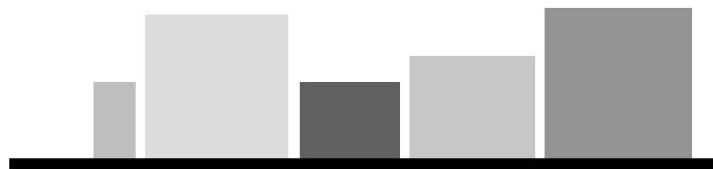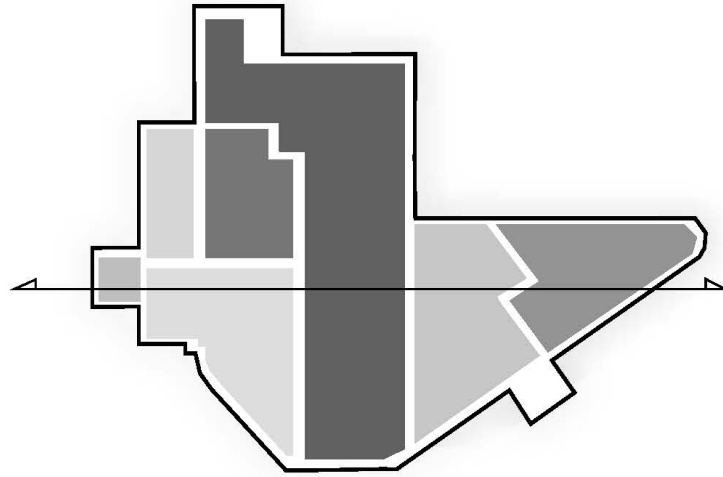- Plan, program, and design the public realm for all users and to promote interaction
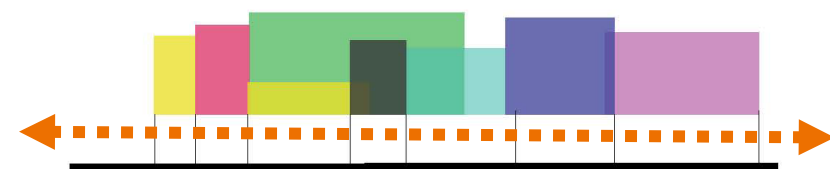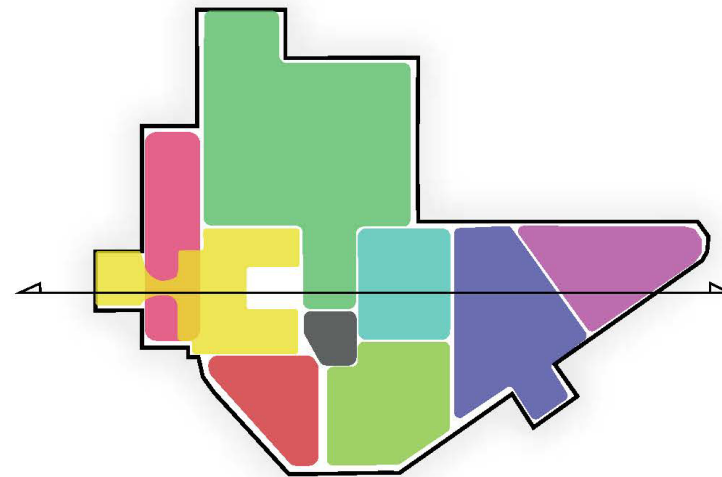
The Campus Plan

NAIT Precincts

NAIT OPERATIONS
POTENTIAL USE

TRADES

STUDENT RESIDENCE

PARKADE

MIXED USE

BUSINESS

HEALTH SCIENCES

PARKADE

INDUSTRY + APPLIED RESEARCH

Hangar 11

NAIT COMMUNITY HUB

NAIT PLAZA MIXED USE

APPLIED SCIENCE + TECH

MIXED USE

PARKADE

Future LRT Station

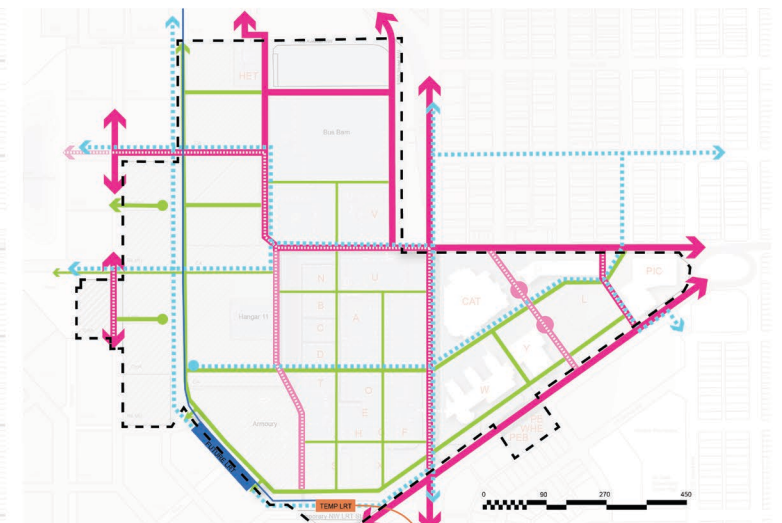0   90   270   450

Precincts

PRECINCTS

ZONES

Porosity + Blended Uses
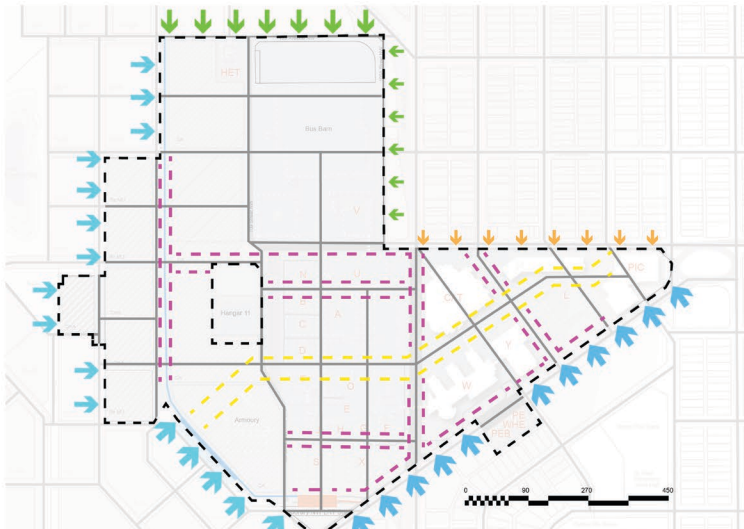
Framework Elements

1. GREENBELT

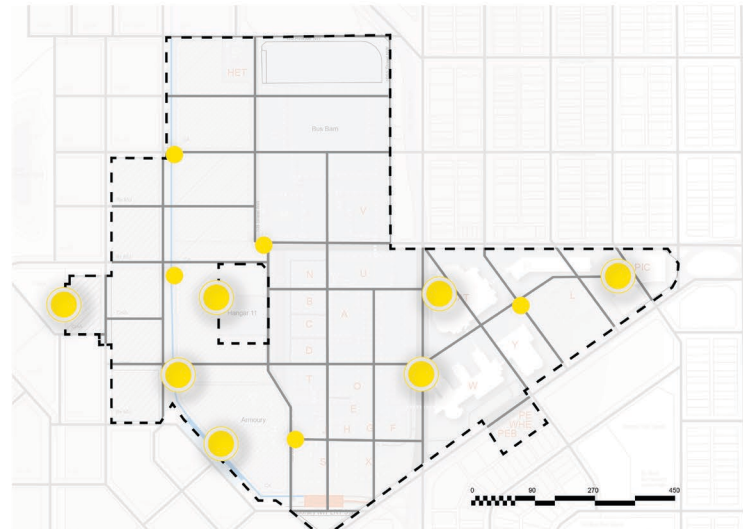━━━ Primary/Major Green Belt
━━━ Secondary/Minor Green Belt

2. CIRCULATION

━━━ Vehicle Traffic
━━━ Service Vehicles Only
▭▭▭ Vehicles + Pedestrian Traffic
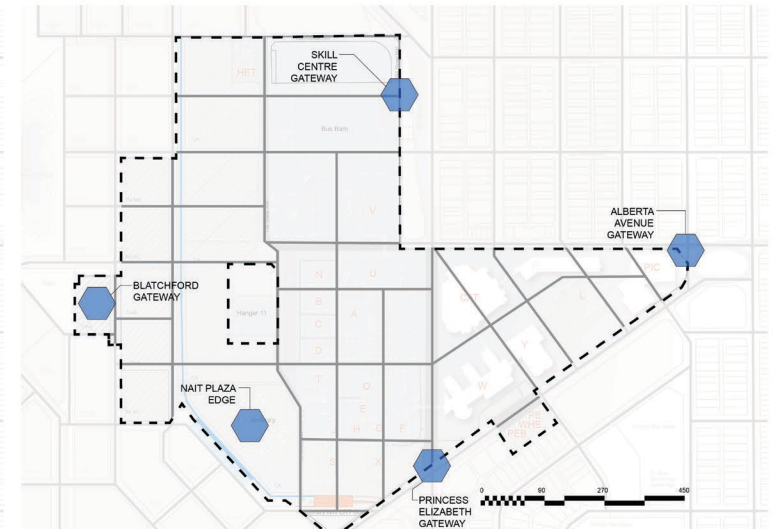━━━ Pedestrian Traffic Only
┈┈┈ Bicycle Traffic

3. EDGES

⇨ Blatchford/NAIT Residence Edge
⇨ Princess Elizabeth Edge
⇨ Skills Edge
⇨ Alberta Avenue Edge
▬▬ Street + Path Edges
▬▬ Green Belt Edge

4. NODES

⬤ Major Node
• Minor Node

5. GATEWAYS

Public Realm

Green Belt

- One formal, large, green space that will become the distinguishable open space that is associated with NAIT throughout the region;

- A linear gesture reaching across the campus and symbolizing the interconnectedness across academic programs and with the community of Blatchford.

Public Realm
106 Street promenade & corridor

Foster circulation routes that mix pedestrian and vehicular uses by treating them as **mixed-use corridors**.

Use elements such as:
- rolled curbs
- textured ground plane
- landscaping features bollards
- other complete street treatments.

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Public Realm

The NAIT Plaza:

- Provide a zone that will become a public transportation hub, as this is where pedestrians or cyclists become transit users;

- Act as the place of arrival from the Blatchford Town Centre;

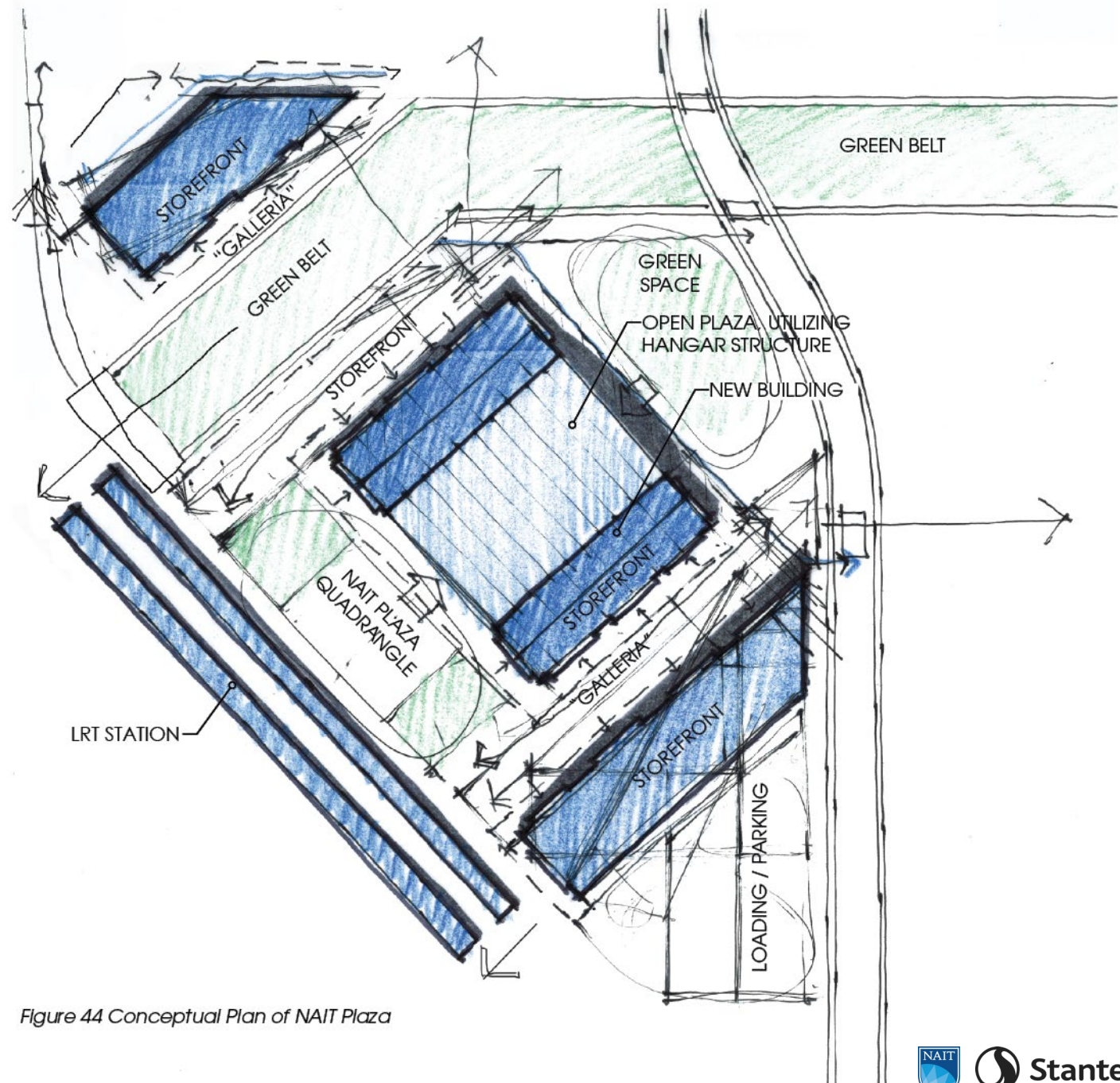- Provide a gateway for transit users, and therefore a public face of the campus.

Figure 44 Conceptual Plan of NAIT Plaza

Public Realm

Winter Design Principles

- Strategies to block wind
- Maximize exposure to sunlight
- Use color and materiality
- Visual interest with light
- Winter Infrastructure

Future Build-out

NAIT 2021

NAIT 2050

NAIT

Open House – Campus Development Plan Update

Discussion and Questions

Thank you!

Future Build-out

NAIT 2021

NAIT 2050

NAIT

Questions:

1. What interests or excites you the most about what we have shared today about the Campus Development Plan?

NAIT

Questions:

2. How do you think NAIT's long term development plans for the campus will impact you?

NAIT

Questions:

3. How do you see yourself interacting with the campus in the future as it evolves?

NAIT

Questions:

4. Which components of the future campus do you think will be most important to your experience as a NAIT user?

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