







SUMMARY MATRIX

The 20 Imperatives of the Living Building Challenge: Follow down the column associated with each Typology to see which Imperatives apply.





	LIVING BUILDING CHALLENGE 3.1			
	BUILDINGS	RENOVATIONS	LANDSCAPE + INFRASTRUCTURE	
PLACE				01. LIMITS TO GROWTH
	SCALE JUMPING		SCALE JUMPING	02. URBAN AGRICULTURE
			SCALE JUMPING	03. HABITAT EXCHANGE
				04. HUMAN-POWERED LIVING
WATER			SCALE JUMPING	05. NET POSITIVE WATER
ENERGY			SCALE JUMPING	06. NET POSITIVE ENERGY
HEALTH + HAPPINESS				07. CIVILIZED ENVIRONMENT
				08. HEALTHY INTERIOR ENVIRONMENT
				09. BIOPHILIC ENVIRONMENT
MATERIALS				10. RED LIST
			SCALE JUMPING	11. EMBODIED CARBON FOOTPRINT
				12. RESPONSIBLE INDUSTRY
				13. LIVING ECONOMY SOURCING
				14. NET POSITIVE WASTE
EQUITY				15. HUMAN SCALE + HUMANE PLACES
				16. UNIVERSAL ACCESS TO NATURE + PLACE
			SCALE JUMPING	17. EQUITABLE INVESTMENT
				18. JUST ORGANIZATIONS
BEAUTY				19. BEAUTY + SPIRIT
				20. INSPIRATION + EDUCATION



- Don't build on virgin land
- Incorporate agriculture
- Offset developed land with permanent habitat elsewhere
- Encourage human powered movement



- Net-Zero Water
- Rainwater
- Waste Water Treatment



- Net Positive
- No On-Site
 Combustion
- Resilience



- Operable windows
- Indoor air quality
- Biophilia



- Most challenging
- Red list of materials/ chemicals
- Understand and offset embodied carbon
- Regional materials
- Reduce or eliminate waste

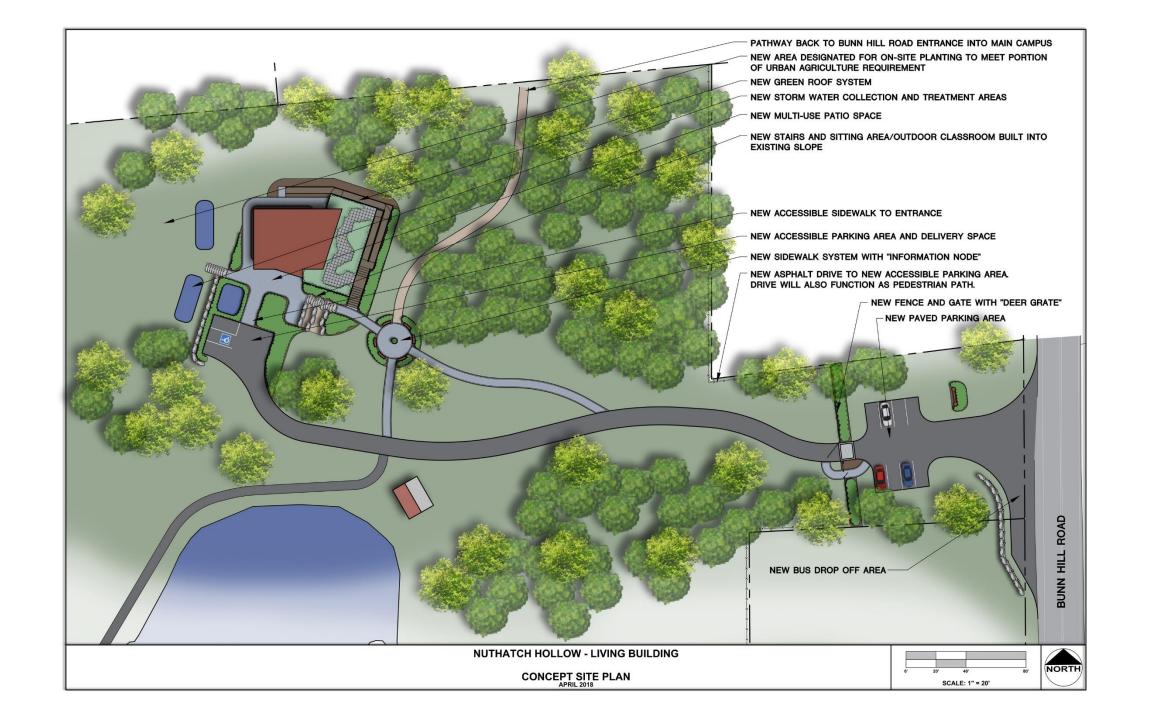


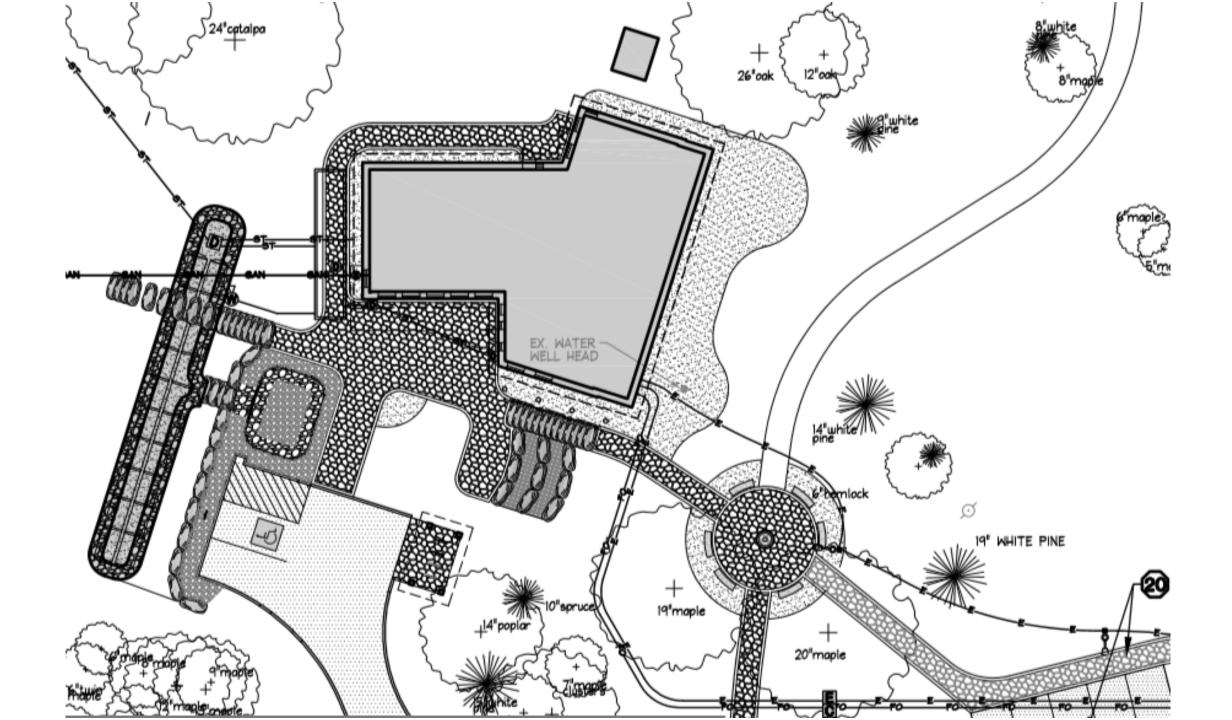
- Human Scale
- Universal Design



 Occupant Well-Being

















Net Zero Water

- Reuse existing well predicted water use is 70 gallons per day (GPD) total
- Ultra low flow faucets- 44 GPD hot water
- Clivus Multrum Waterless Composting Toilet
- Leach Field for greywater





Energy Modeling – eQUEST

Annual Energy Consumption by Enduse

	Electricity kWh
Space Cool	708
Heat Reject.	-
Refrigeration	-
Space Heat	2,358
HP Supp.	-
Hot Water	1,810
Vent. Fans	2,437
Pumps & Aux.	793
Ext. Usage	316
Misc. Equip.	2,884
Task Lights	-
Area Lights	3,068
Total	14,375

