

4

SITE DEVELOPMENT
RECOMMENDATIONS

4.1 GOALS FOR DEVELOPMENT

Goals for Site Development

Short-term and long-term site development plans prioritize strategies to support the following goals:

- Improved wayfinding and accessibility
- Improved functionality of outdoor spaces
- Increased areas of land designated as a carbon sink
- Expanded renewable energy systems
- Enhanced climate resiliency through improved stormwater management and biodiversity
- Further integration of sustainability into academics and research through agrivoltaics and arboretum sites

Increase Land Designated as Carbon Sink

As identified in the Climate Action Plan, Kirkwood Community College seeks to increase the percentage of land on the Cedar Rapids campus designated as a carbon sink by two percentage points, to comprise at least 10% of the campus. Areas qualifying as carbon sinks include native prairie, wetland, and forest/riparian areas. The current assessment shows that 118.2 acres, or 12.2% of campus, is designated as a carbon sink, exceeding the goals in the Climate Action Plan. The area of land acting as a carbon sink could increase up to 155.4 acres, or 16.2% of the campus, by converting targeted sites identified on the opposite page into an arboretum and native prairie areas, such as oak savanna.

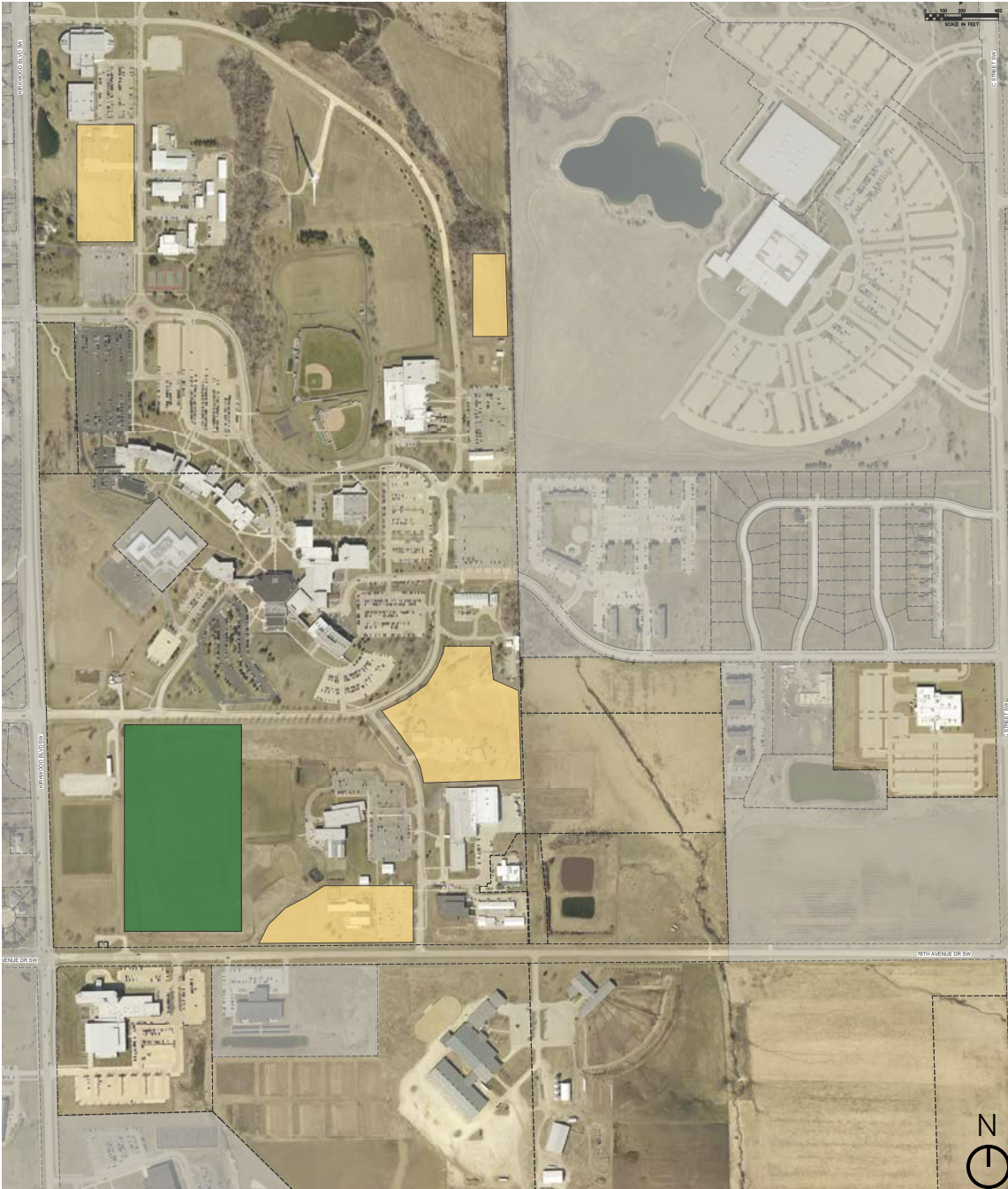
Current Scenario: Land Designated as Carbon Sink

	Acres	Percent of Total Campus
Forest / Riparian	19.3	2.0%
Wetland	48.1	5%
Prairie	50.8	5.3%
Total land designated as a carbon sink	118.2	12.2%

Future Scenario: Land Designated as Carbon Sink

	Acres	Percent of Total Campus
Forest / Riparian	35.8	3.7%
Wetland	48.1	5%
Prairie	71.5	7.4%
Total land designated as a carbon sink	155.4	16.2%

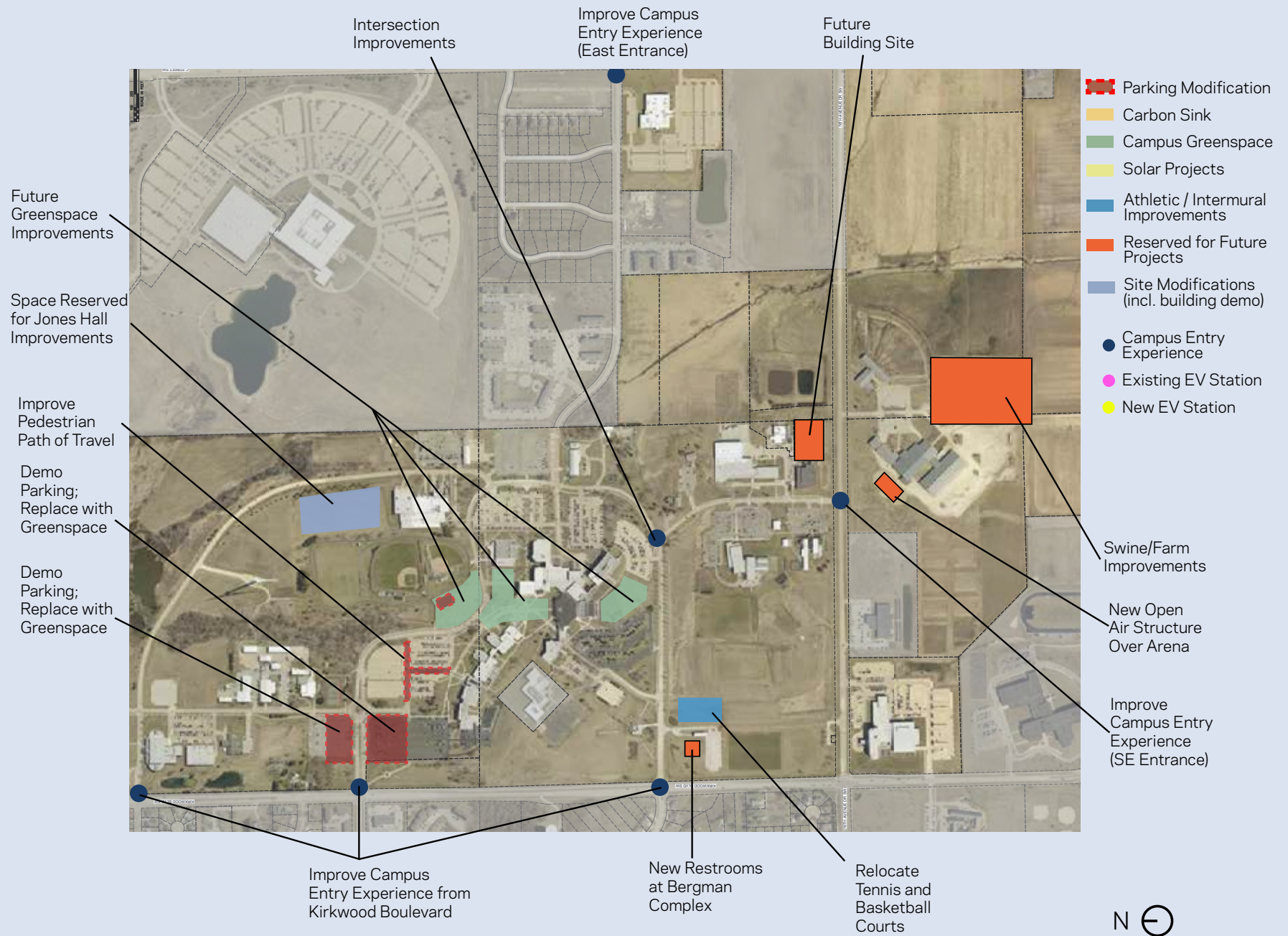
- Proposed Prairie Areas
- Proposed Arboretum

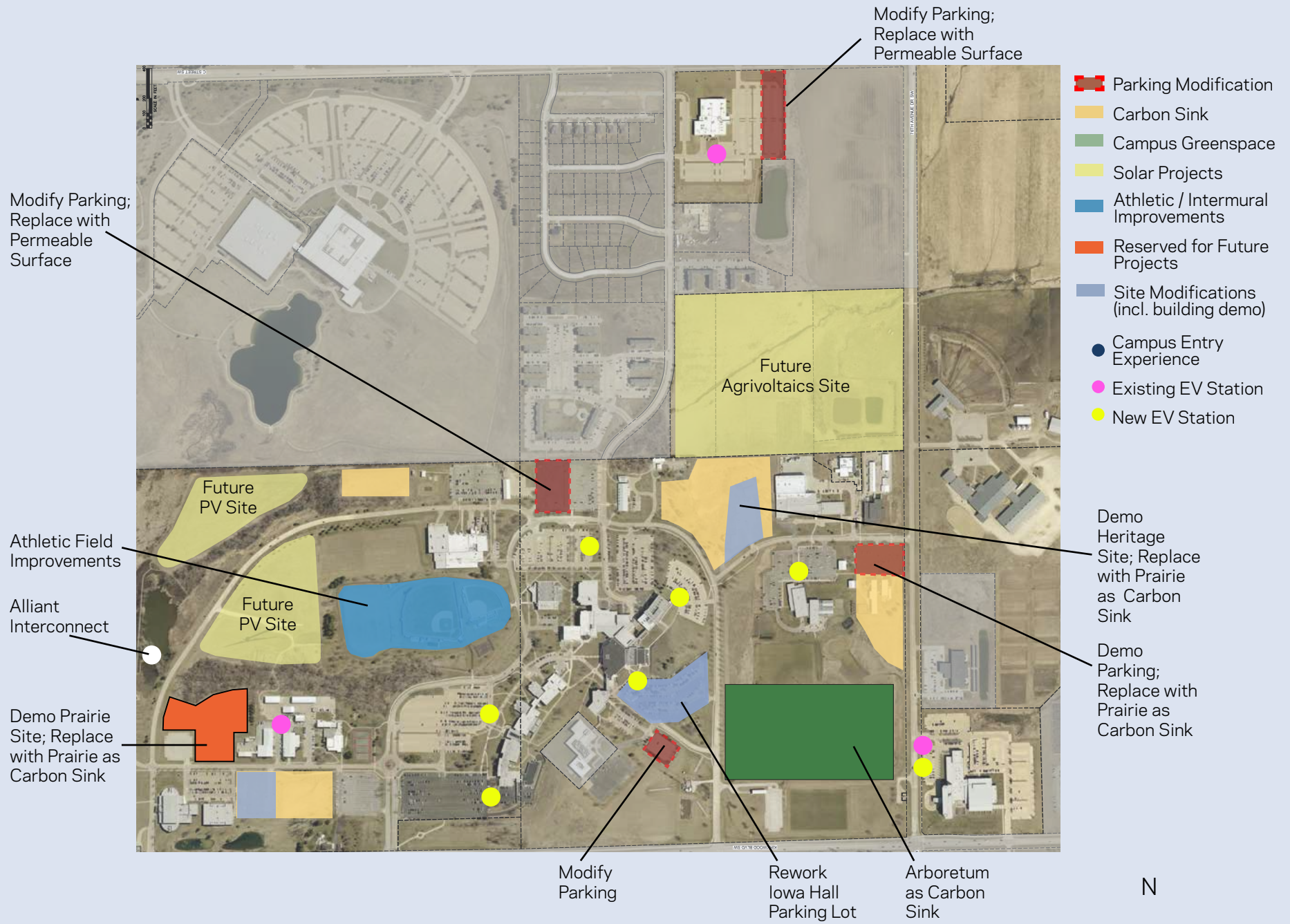


4.2 SITE PLANS

Short Term Site Plans

- Create student centered exterior support spaces
- Improve campus entry experiences
- Improve accessibility around campus
- Address wayfinding
 - Consistent wayfinding styles and branding
 - Leverage technologies for mapping and navigation
 - Improve wayfinding for visitors
 - Ensure signage is multilingual
 - Consider modes of transportation (ex. bike, pedestrian, bus, vehicular)
- Repair parking lots
- Open air structure over Equestrian arena
- Swine/Farm/Ag improvements
- Improve Sustainability
 - Climate Action Plan guides campus planning and design decisions
 - Incorporate new green spaces to provide shade, manage stormwater, support biodiversity, and enhance climate resiliency





Long Term Site Plans

- Turn excess parking/pavement into permeable surfaces
- Install agrivoltaics test sites
- Photovoltaic (PV) array expansion at PV sites
- New parking lots for better placement to buildings they serve
- Improve accessibility around campus in a phased approach
- Athletic Field improvements
- Increase carbon sinks