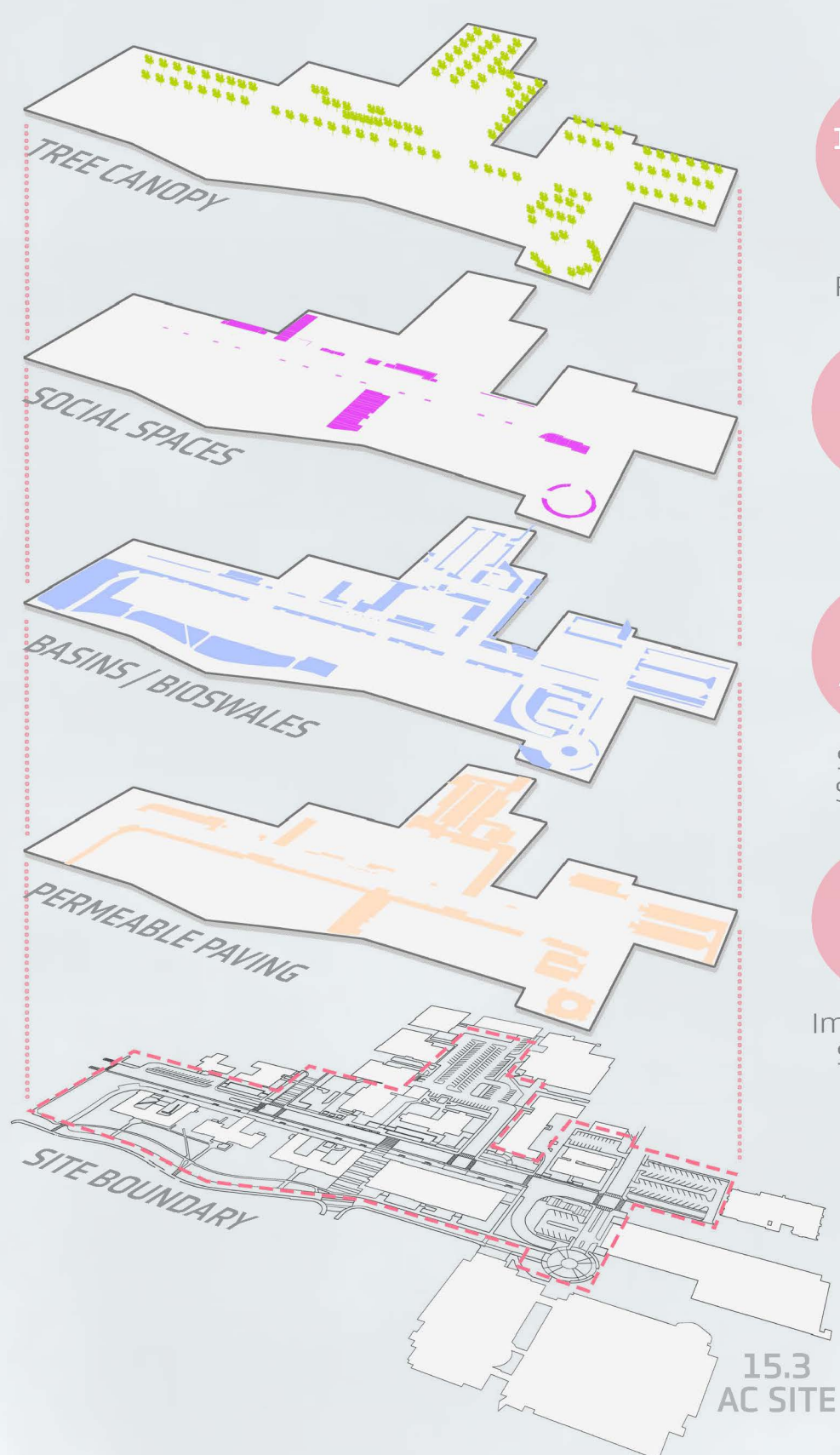




SOCIO-HYDROLOGY

A frame for an integrated green infrastructure campus master plan

DESIGN PERFORMANCE AND IMPACT



2ND STREET GI SYSTEMS

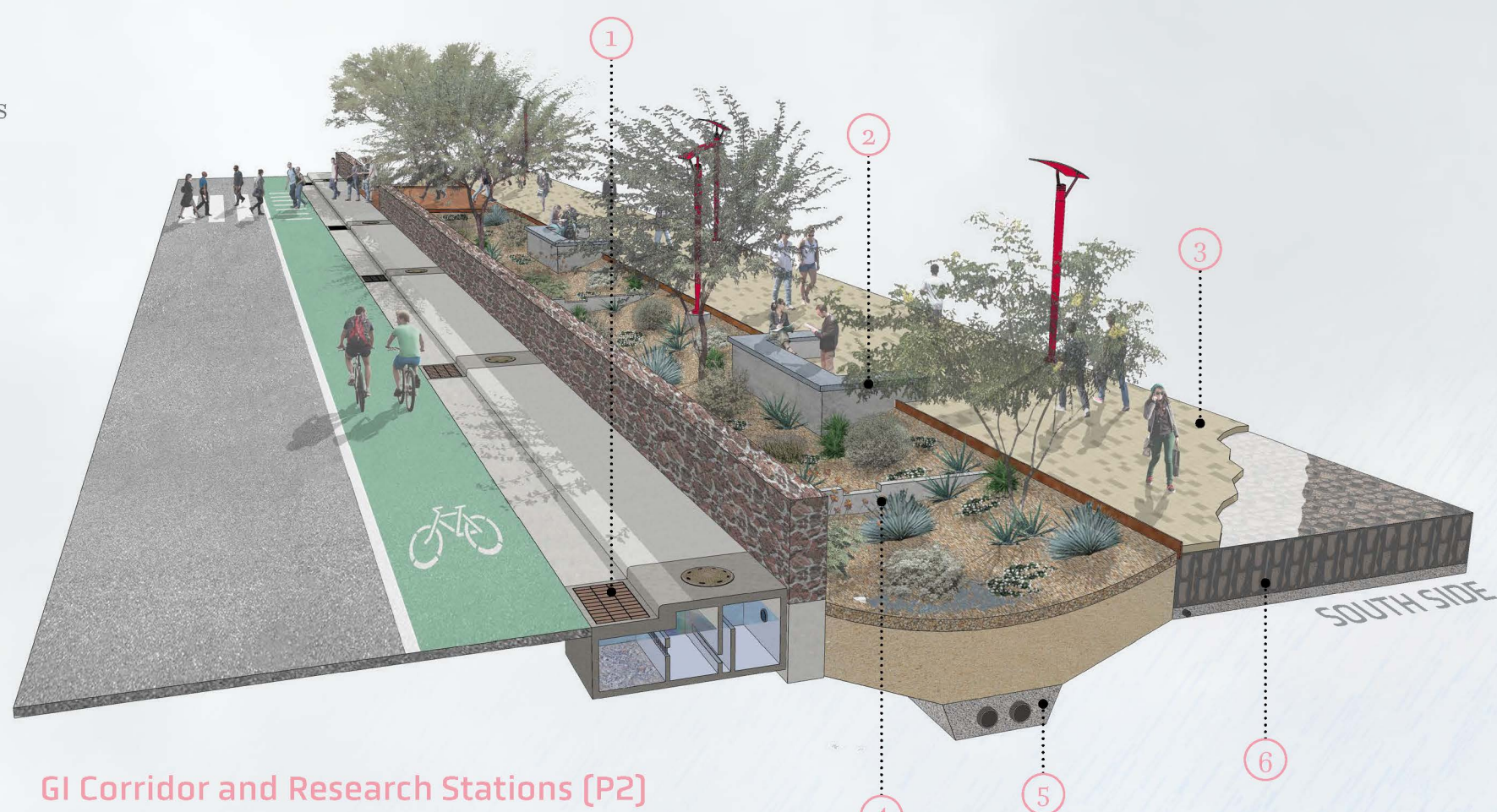
Sod to GI Social Space (P1)

Spaces outside buildings that are currently underutilized will be retrofitted with GI strategies that increase shade while creating social spaces for students, faculty and visitors.



- Bioswale network** connects beyond site and accounts for overflow
- Curb cuts** alleviate flooding on street and provide supplemental irrigation
- Native plantings** reduce urban heat island effect while intercepting rain
- Perforated bridge** allows water to pass through and under into basins
- Decomposed granite** detention basin floods during large rain events
- Perforated pipes** mandated by campus guidelines aid in water conveyance and infiltration
- Rock-weirs** slow water and allow temporary storage and percolation of rainfall

- Sediment catchments** slow and filter water before it enters bioswales
- Research station and seating** allow observation of bioswales for purposes of collaborative study
- Permeable pavers** promote percolation and minimize runoff
- Concrete weirs** slow water and allow temporary storage and percolation of rainfall
- Perforated pipes** mandated by campus guidelines aid in water conveyance and infiltration
- Structural soil cells** hold stormwater and provide room for tree roots



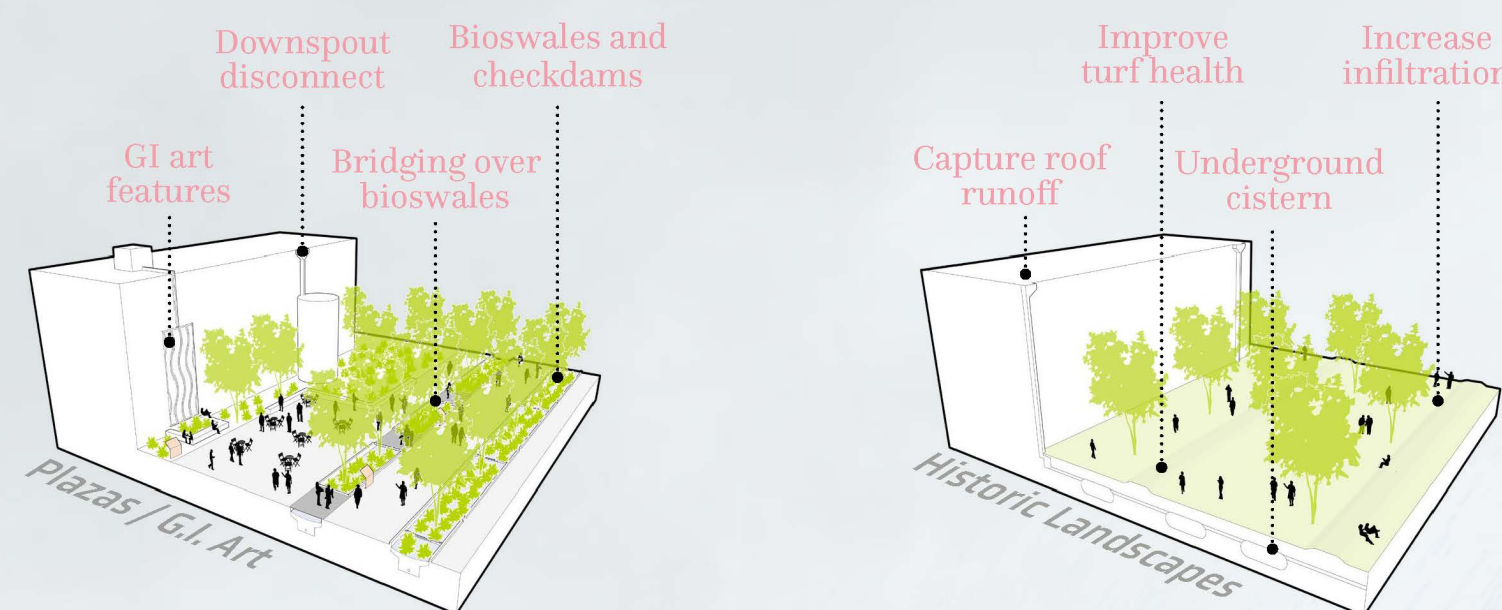
GI Corridor and Research Stations (P2)
A new, shady pedestrian thoroughfare mitigates congested circulation on 2nd Street while offering chances to experience and study GI

2ND STREET MASTER PLAN

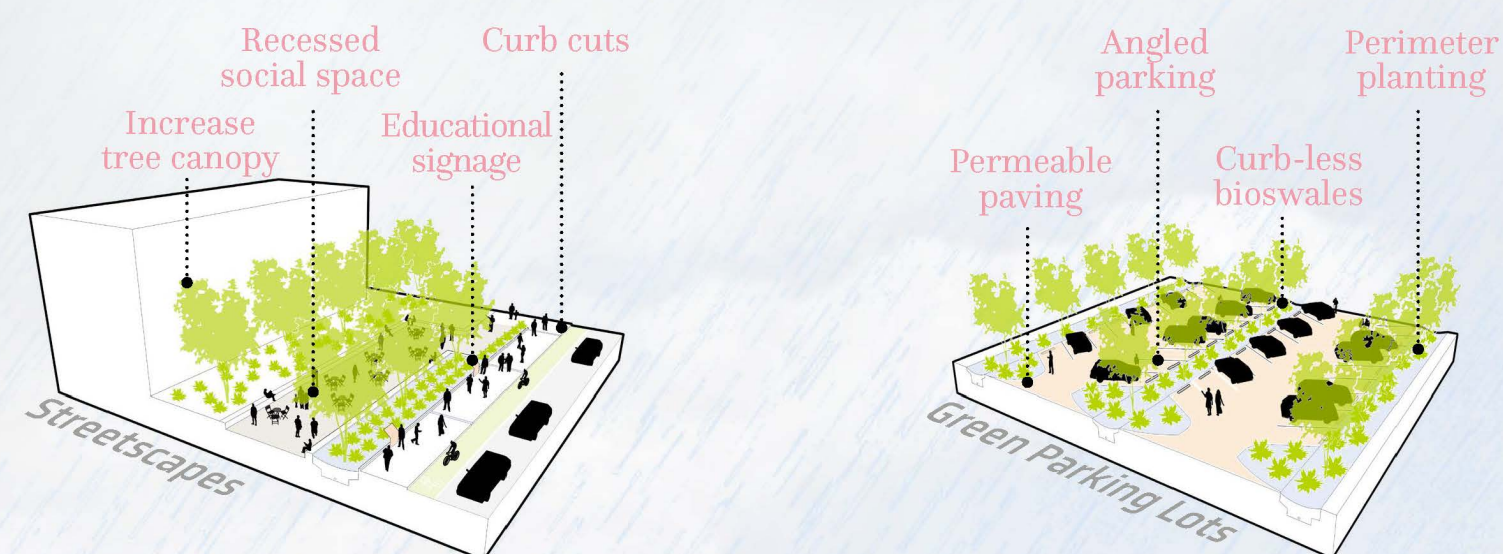


SCALABLE CAMPUS STRATEGIES

Typologies of smaller scalable strategies specific to the 2nd St. corridor proposal seek to demonstrate GI solutions that can be implemented on a broader scale within the neighboring and upstream campus landscape.



- Highlight GI through art
- Public education
- Connected storm water system
- Urban tree canopy mitigates heat



- Minimize underutilized turf
- New social space/retention basins
- Bioswales mitigate street conveyance
- Public education and engagement
- Eliminate impervious surfaces
- Angled parking to minimize aisle
- Enhance urban tree canopy
- Rain gardens and bioswales



GI Gateway (P3)