VDOT Proposed SR 29 Western Bypass: 2012 – 2017
2012 Proposed State Route 29 Western Bypass

Overall Route Alignment
• FHWA environmental evaluation – Nov 2012
• Completion of project design – mid-2013
• Approval of required permits – Oct 2013
• Estimated construction start – Nov 2013
• Completion of property acquisition – Feb 2014
• Completion of Project & Widening of 29 North – 2017
View from the North
Critical Issues

- Environmental impacts to the existing forest, stream valley and Rivanna Trail
- Aesthetic impacts due to loss of forest and height of ramps
- Noise impacts to North Grounds facilities
- Increased vehicular traffic through North Grounds to Arlington Boulevard and Emmet Street corridor
• Relocate proposed stormwater pond to better retain current stream valley and protect forest/tree cover

• Modify and/or relocate Leonard Sandridge Road exit and entrance ramps to lessen noise and aesthetic impacts

• Develop traffic management plan that mitigates increased traffic flows through North Grounds
Site Photos:

From Alderman Road and Whitehead Road
Site Conditions:

First Impressions
Site Conditions:

Site Analysis
Site Conditions:

Adjacent Recreation & Outdoor Spaces
Site Conditions:

Site Possibilities for Outdoor Spaces & Path Connections
Site Conditions:

Best Building Locations
Site Conditions:

Connections to previous Master Planning Study Areas

Science and Research Initiative
LANDSCAPE MASTER PLAN

Elements of the Plan:

1. Observatory Hill Pedestrian Link
   Service access to Gilman Hall is reconfigured to allow a gradual descent for pedestrians entering from Alkenman Road and Observatory Hill beyond.

2. Gilman Marsh
   The experiential power of Gilman Marsh is heightened by manipulating the base of the path to encourage greater rates of diversity and provide seasonal interests.

3. Physical and Life Sciences Research Building (CAS)
   The new 5-story, 100,000 square foot research facility will be built during the first phase of the development. It will connect directly to both chemistry buildings.

4. East Gate Greens
   The eastern end of the Greens is bounded by a variety of uses including the East Gate, future addition to the Ashcraft and Science Center and existing and proposed science buildings, making a unique space where a diverse mix of activities can take place.

5. Stadium Plaza
   A dynamic plaza with special paving that can accommodate outdoor string and other event-related activities along the north side of Santa Stadium and extends the program of the stadium into the landscape. Typically open to bus traffic, the plaza can be closed off to vehicles during events. Meanwhile, on a daily basis, the trees that punctuate the plaza soften the space and provide for favorable views from adjacent buildings.

6. Vegetated Swales
   As part of the stormwater management strategy, vegetated swales filled with native plants wrap around the main lanes and carry and drain runoff from the adjacent parking lots, roadways, and new buildings.

7. Engineer’s Hill
   On the site where the A Small Building now sits, a curving mound is proposed to block the service drive and to create a more intimate space off of the main lanes where individuals or small groups can gather in an outdoor classroom setting.

8. Miniature Forests
   On the upland meadows and in pockets throughout the site, robust stands of native trees express the richness of native ecosystems and provide research and demonstration opportunities.

9. Central Lawn
   The large open space of the area, the central lawn accommodates passive activities on a daily basis and large gatherings during special events.

10. Information Technology Engineering Building (ITE)
    This new 5-story, 100,000 square foot teaching and research facility will serve as a backbone to the campus. The building site on Engineering Way supports a strong connection to the existing engineering buildings. A pedestrian gateway from Stadium Row is formed between the ITE building and the future science buildings.

11. Future Science Buildings
    Nearly 600,000 square feet of research and teaching space is accommodated in 3 buildings, 2 of which frame the southeast corner of the space, and the third located on the existing Gilman Hall and A small building site, bridging over Engineer’s way.
Site Connections Diagram