

City of Charlottesville City Hall/
Police Station
Charlottesville, Virginia



Date Installed: May 2008
System Type: Carlisle SynTec Gardenroof
Roof Size: 20,000 sq. ft.
(9,250 sq. ft. of vegetated roof)
Plant Material: 3 in. deep plugs
(various sedums and succulents)
Architect: Heyward Boyd Architects, P.C.
Contractor: Melvin T. Morgan Roofing
Client: City of Charlottesville
(Facilities Management Department)
Address: 603 East Market Street,
Charlottesville, VA
Website: www.charlottesville.org

Above: The image above shows the progress of the green roof of the Police Building on 19th May, 2008. The planting is now well underway in this image. This photo was taken from the top of the car deck adjacent to the Downtown Mall.

Below: A cross-section of the roofing assembly that was specified by CGR. An 80 mil. Sure Weld TPO membrane was adhered directly to a ceramic masonry board. The vegetated coverings consisted of a 15 oz. protection mat, a 1" drainage board, a moisture retention mat, 3" of growing media and approximately 18,000 plants.



Above: The plants will take a while to become fully established, but immediately the roof will help reduce storm water runoff and help to reduce cooling costs within the building for the summer months. The system was designed to absorb the first 1" of rainfall and is estimated that it will reduce HVAC costs by around 3-4% per year. An irrigation system was installed and soil moisture sensors put in place to turn the system on during drought periods. For additional, questions concerning the design of this system please contact the project manager (Gregory Long) at 301.452.1144.

