



University of Massachusetts  
Southwest Concourse

Designing Stormwater  
Stephen Stimson Associates

March 17, 2014

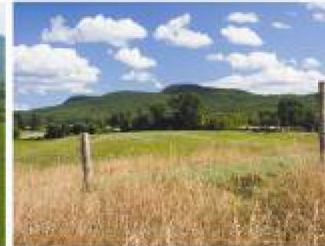


**GEOLOGIC HISTORY:**

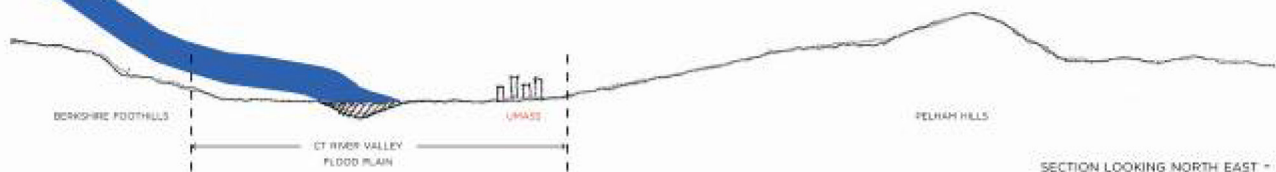
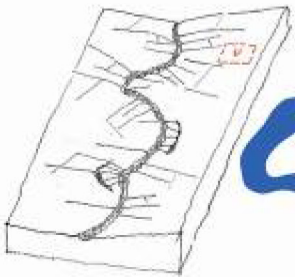
- CONNECTICUT RIVER VALLEY WAS ORIGINALLY FORMED AS A RIFT VALLEY DURING TECTONIC BREAKUP.
- GLACIERS PUSHED SOUTH DURING THE ICE AGE FURTHER CARVING OUT THE SOFT DEPOSITS IN THE RIVER VALLEY.
- AS MELTING OCCURRED, LARGE RIVERS AND LAKE FORMED TERRACES, DRUMMIES AND OTHERS SHAPING THE VALLEY.

**CULTURAL HISTORY:**

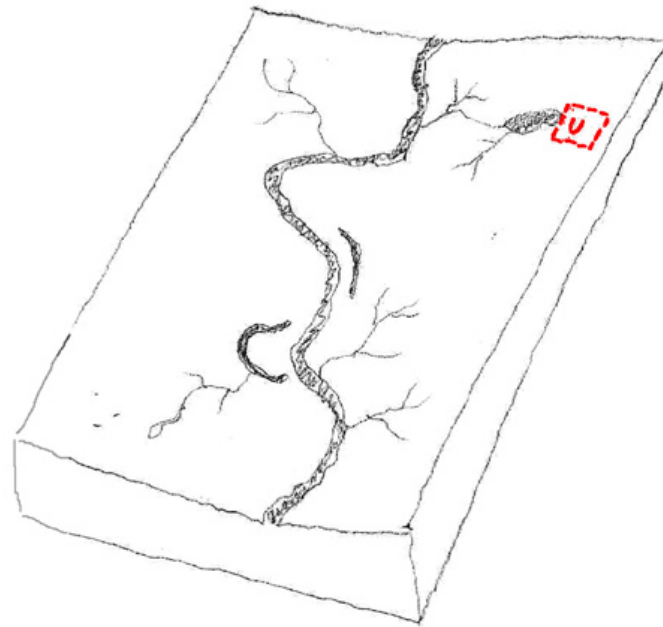
- THE LIME BOTTOM AND ALLUVIAL DEPOSITS WHICH ACCUMULATED THROUGHOUT THE VALLEY ARE HERE SOILS FOR AGRICULTURE.
- SETTLEMENT PATTERNS DEVELOPED ALONG THE CONNECTICUT RIVER CHANGING OUT GARDENED FIELD PATTERNS CALLED RENEWALS MEADOWS.
- THE EXTENSIVE OF FIELD AND FARM CREATES SENSE OF SCALE AND PLACE FOR VALLEY.
- UMASS WAS FOUNDED WITHIN THE AGRICULTURAL FABRIC OF THE CONNECTICUT RIVER FLOODPLAIN AND CONTAINS TO BE A PART OF THE LARGER AGRARIAN AND RURAL SYSTEM.



THE FORM OF THE RIVER AND VALLEY DEFINED CULTURAL PATTERNS THAT HAVE, AND WILL CONTINUE TO, GUIDE AND INSPIRE THE DESIGN EXPRESSION OF THE UMASS CAMPUS AND THE SOUTHWEST AREA.

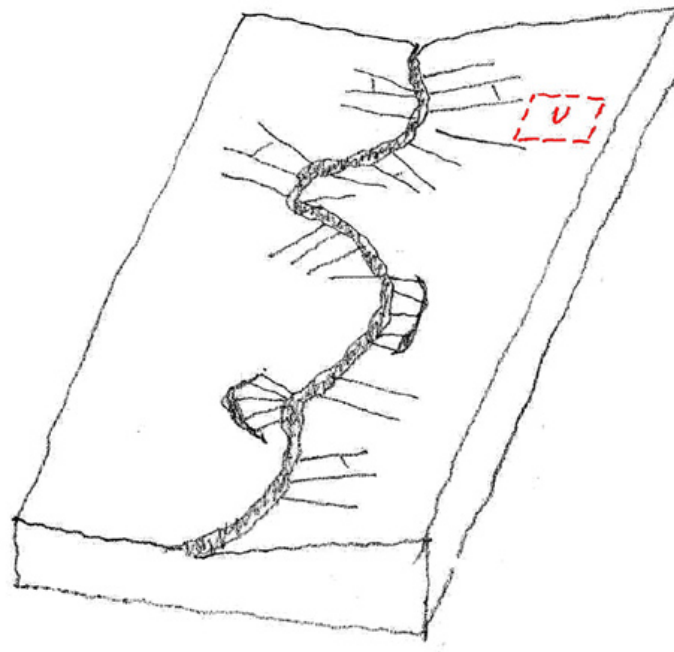


SECTION LOOKING NORTH EAST ~ 1175



## ECOLOGICAL HISTORY

BECAUSE OF THE SEASONAL FLUCTUATIONS AND THE MEANDERING SHAPE OF THE CONNECTICUT RIVER, THE FLOODPLAIN IS RICH IN ALLUVIAL DEPOSITS, IDEAL SOILS FOR AGRICULTURE.



## CULTURAL HISTORY

AGRICULTURAL PATTERNS OF INTERVALE MEADOWS ARE SEEN THROUGHOUT THE CONNECTICUT RIVER VALLEY. THE RICH FLOODPLAIN WAS A PRIME LOCATION FOR UMASS TO FOUND THE AGRICULTURAL SCHOOL.

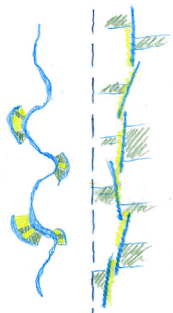


Aerial View Southwest Campus

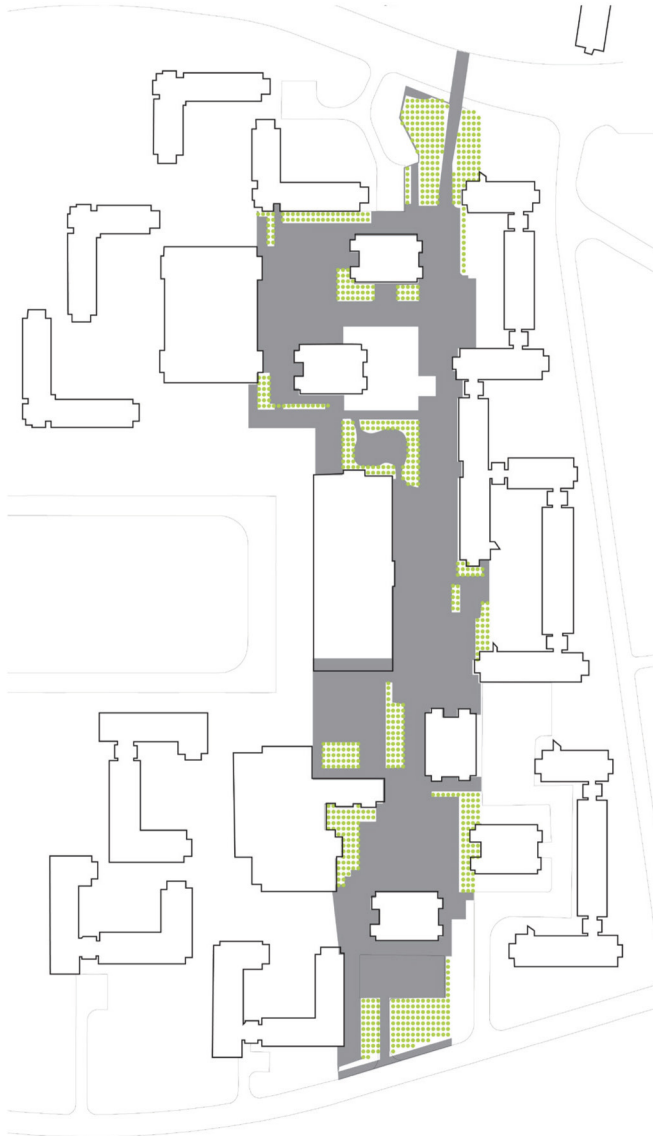


Existing Conditions

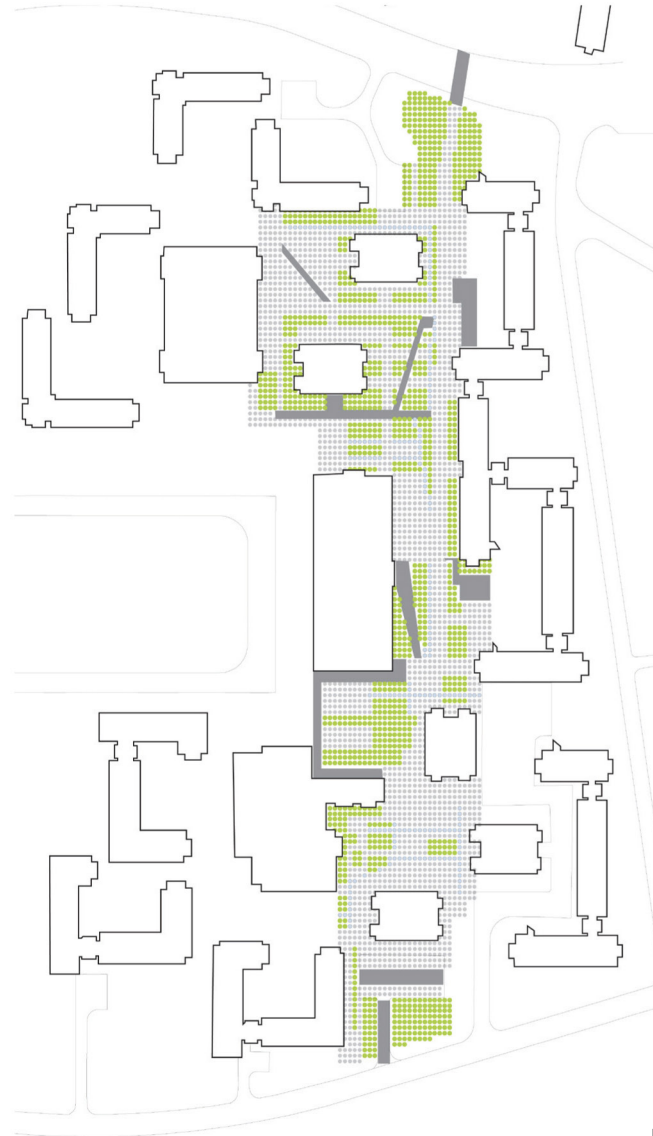
- 1 Pedestrian Promenade
- 2 Stormwater Collection
- 3 Infiltration Garden
- 4 Permeable Courtyard
- 5 New Lawn
- 6 Flexible Plaza



Existing: Impervious 70% | Pervious 30%

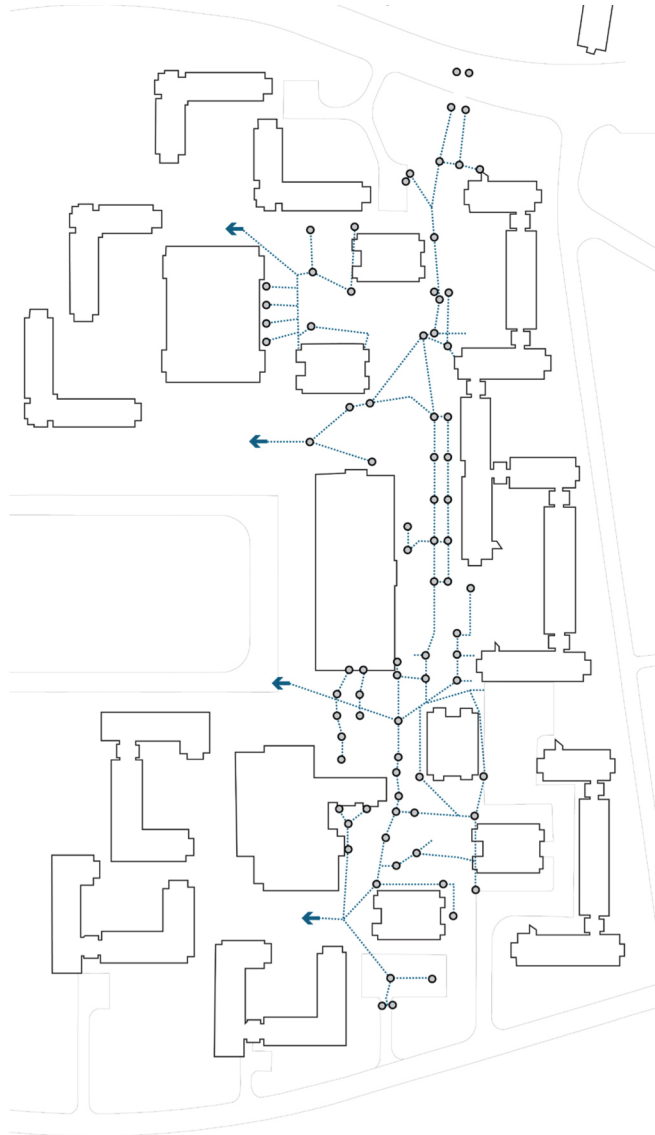


Proposed: Impervious 40% | Pervious 60%

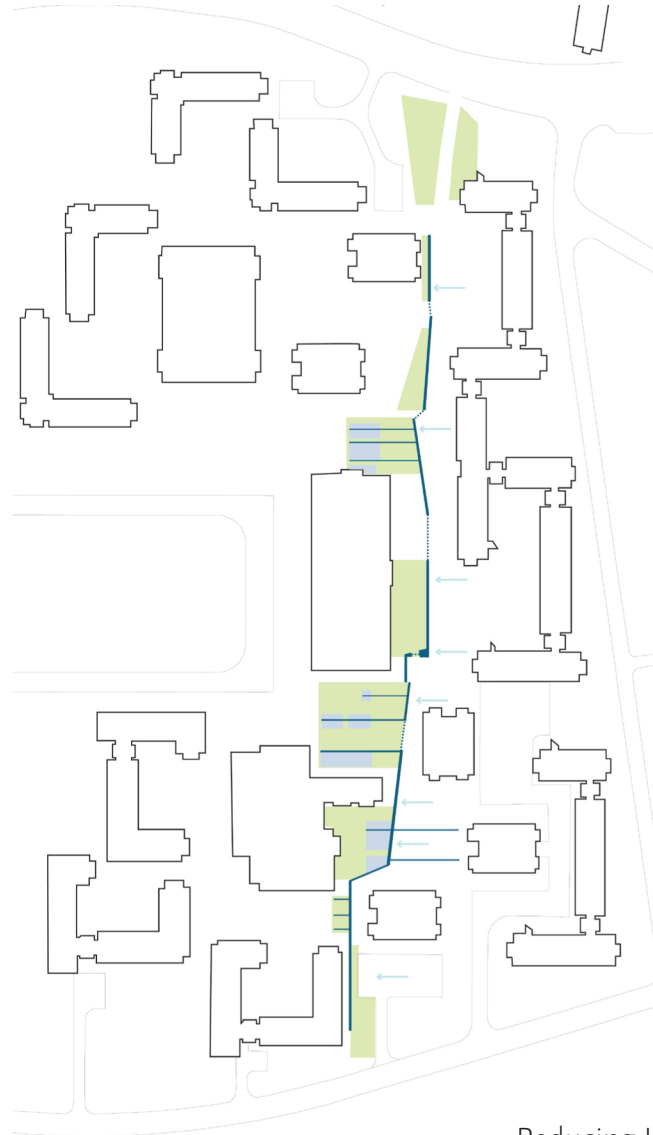


Increasing Porosity

Existing: Subsurface Drainage



Proposed: Visible Stormwater System

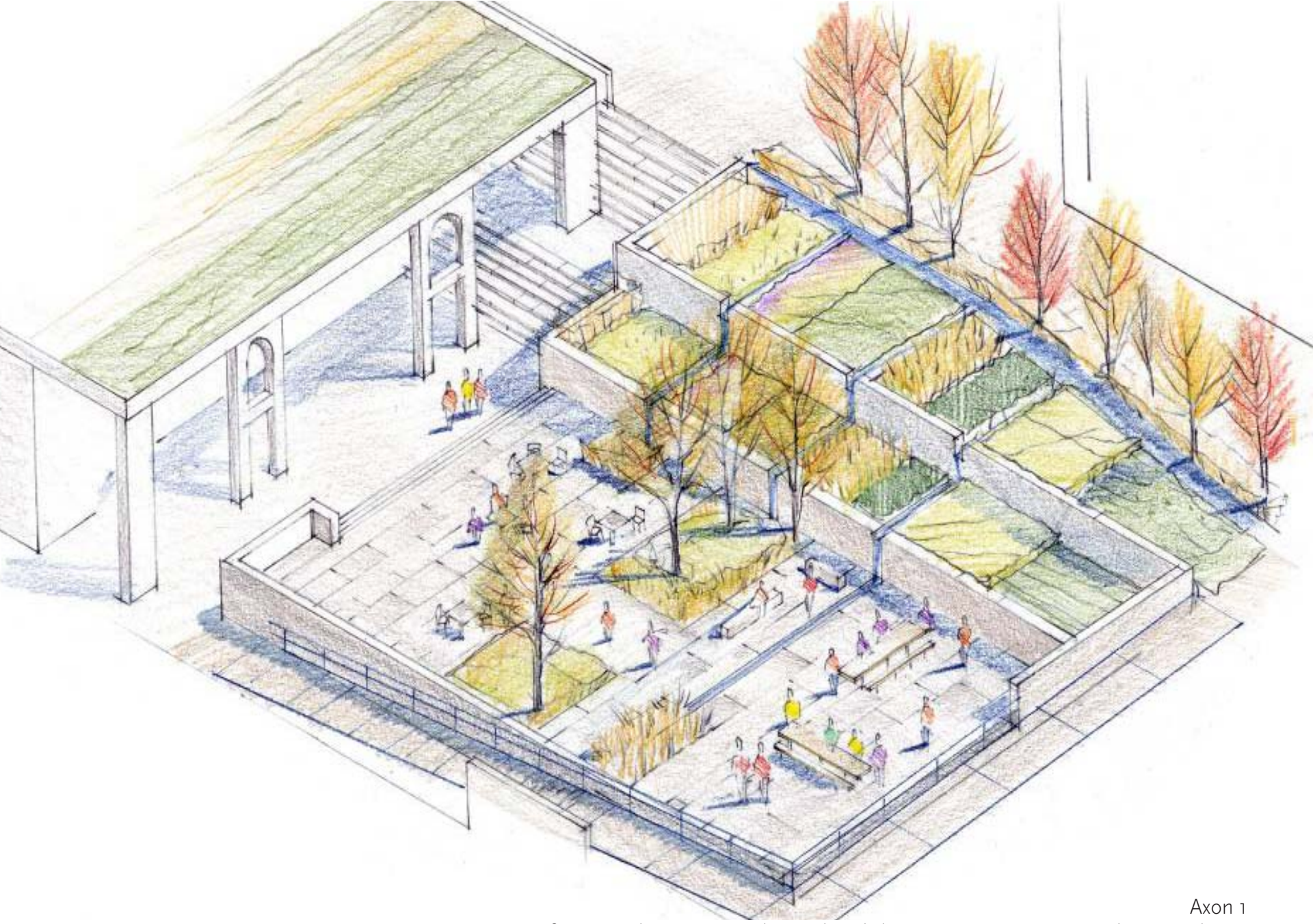


Reducing Hard Infrastructure

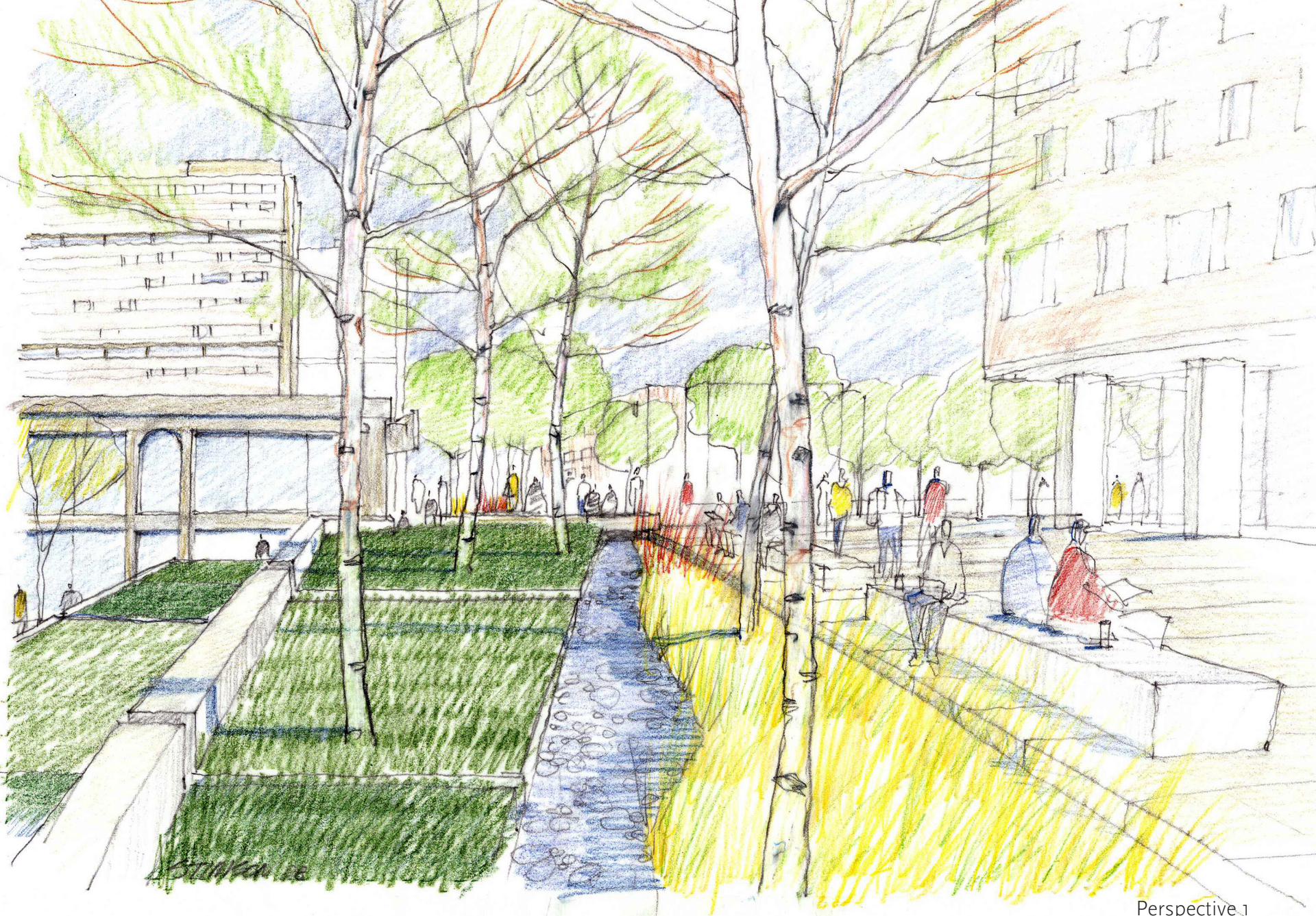




Site Section 1  
Through Cafe Terrace Between Hapden and Berkshire Dining Commons Looking South



Axon 1  
Cafe Terrace between Hapden and Berkshire Dining Commons Looking Northeast

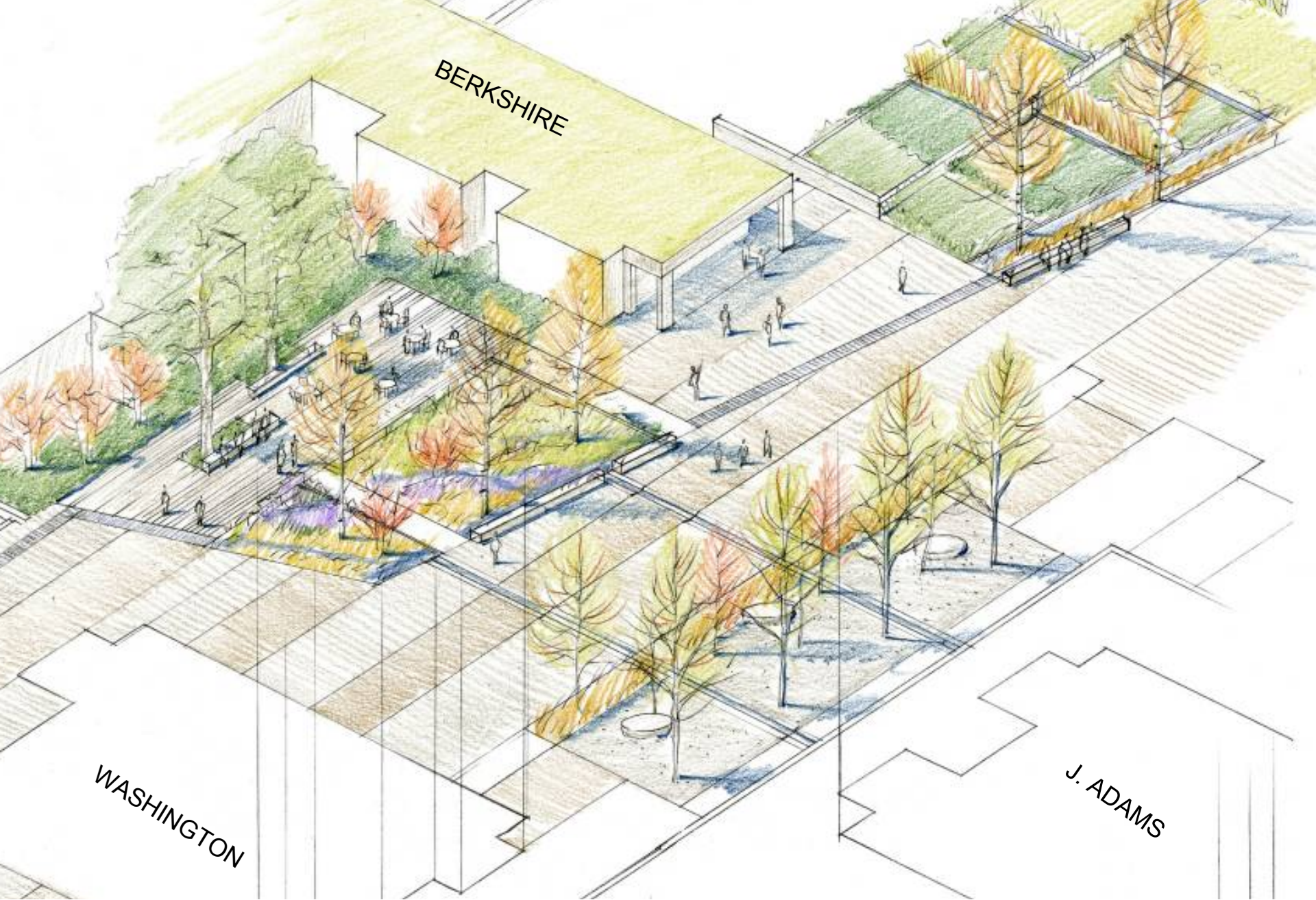


Perspective 1

Runnel East of Cafe Terrace Between Hapden and Berkshire Dining Commons Looking North



Section 2  
Through Berkshire Dining Common Looking South

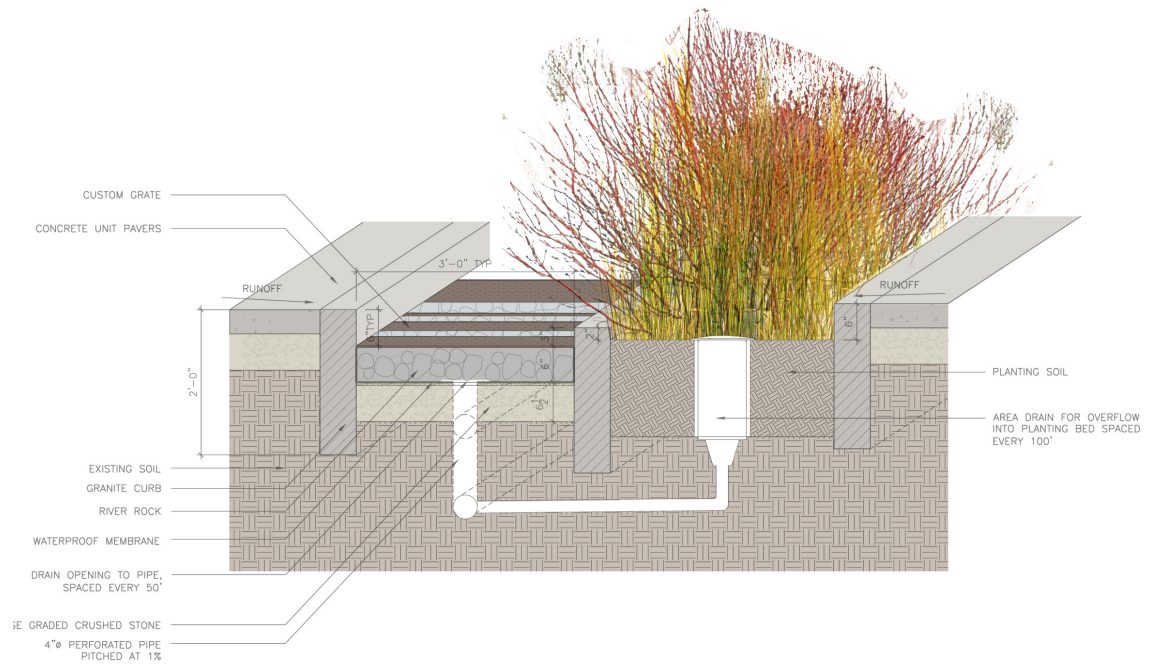


WASHINGTON

BERKSHIRE

J. ADAMS

Axon 2  
Outdoor Dining and Planting South of Berkshire Dining Common Looking Northeast



A2 RUNNEL W/GRANITE CURBING AND GRATE  
1" = 1'-0"



Drainage sections















































After