



Bio-aquifer under grass paving used to intercept and infiltrate mall roof runoff—area functions as multi-use gathering area used by library and other community organizations or seasonal overflow parking

Pervious paving with bio-aquifer storm system used to infiltrate runoff from the theatre roof – allows for natural storm water drainage and groundwater recharge

PARKING and VEHICLE ACCESS

- 1 Parking divided into smaller more focused lots
- 2 90 degree parking as more efficient use of impervious space
- 3 Longer medians on either side of drive aisle to create visual corridor to main mall entrances
- 4 Raised speed tables at pedestrian and bike crossings
- 5 Second collector drive to divide traffic into narrower roadways
- 6 Utilize existing asphalt paving throughout
- 7 Fewer vehicle lanes to encourage pedestrian circulation through shortened lane crossing distances

VEGETATION / INFILTRATION

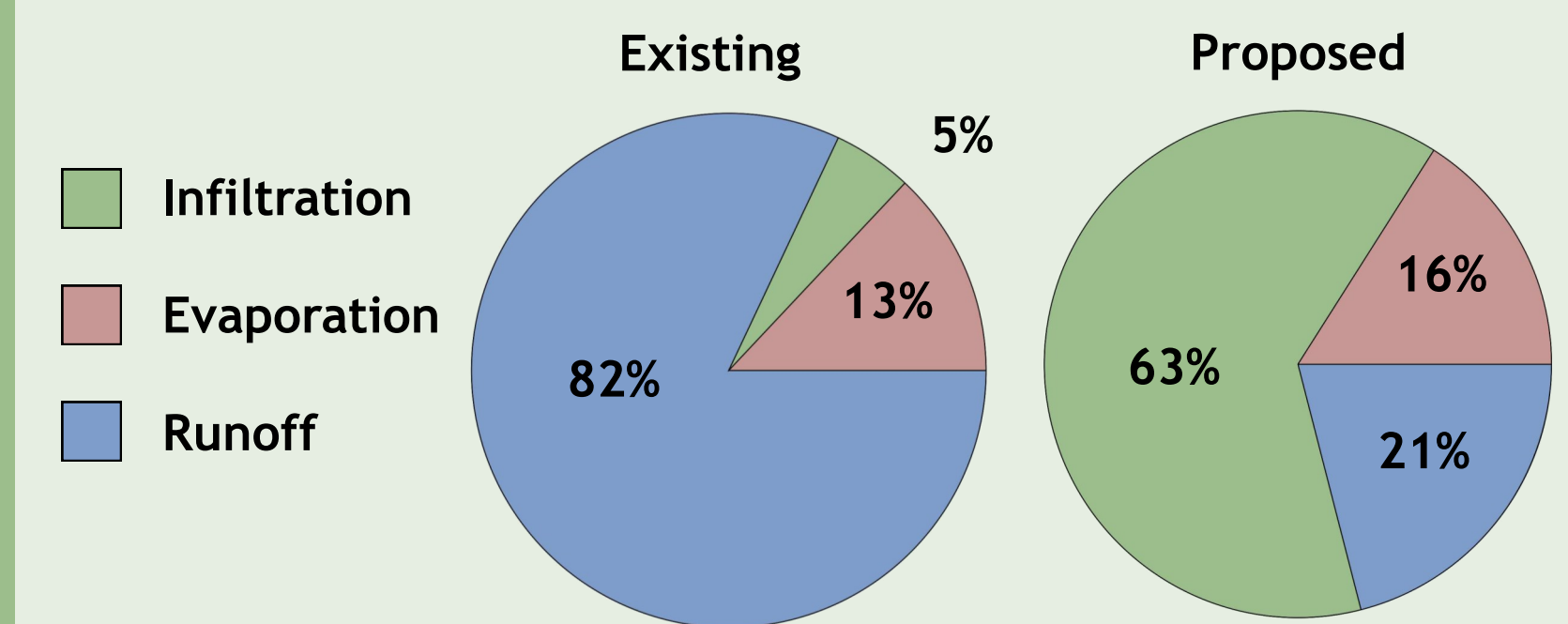
- 1 Forested micro-habitat areas for restorative SOV credits
- 2 Additional landscaping serves as an enhanced visual screen and pretreatment for runoff toward right-of-way and restorative volume credits
- 3 Pervious paving to intercept runoff and provide pedestrian route through parking lot
- 4 Retrofit existing parking median as bio-retention medians
- 5 Save existing established trees at entry and enhance with undergrowth species to create micro-habitat along new retention pond
- 6 Meadow micro-habitat areas for restorative Stay on Volume credits
- 7 Grass paving for seasonal overflow parking or community events
- 8 Planter boxes and living wall at main mall entrances
- 9 Stream restoration using living walls adjusting stream slopes to save existing trees – See Section 1
- 10 Maintain existing established tree vegetation throughout

PEDESTRIAN / BIKE ACCESS

- 1 8' Mixed use bike path connecting various areas around the mall campus
- 2 Bike racks
- 3 Bus stops
- 4 Protected pedestrian path between perimeter retail and mall
- 5 Crosswalks for access to overflow parking
- 6 Maintain and improve pedestrian access to neighboring property
- 7 Connection of mixed use bike path to proposed extension of Chickamauga Creek Greenway

STORM WATER FACTS

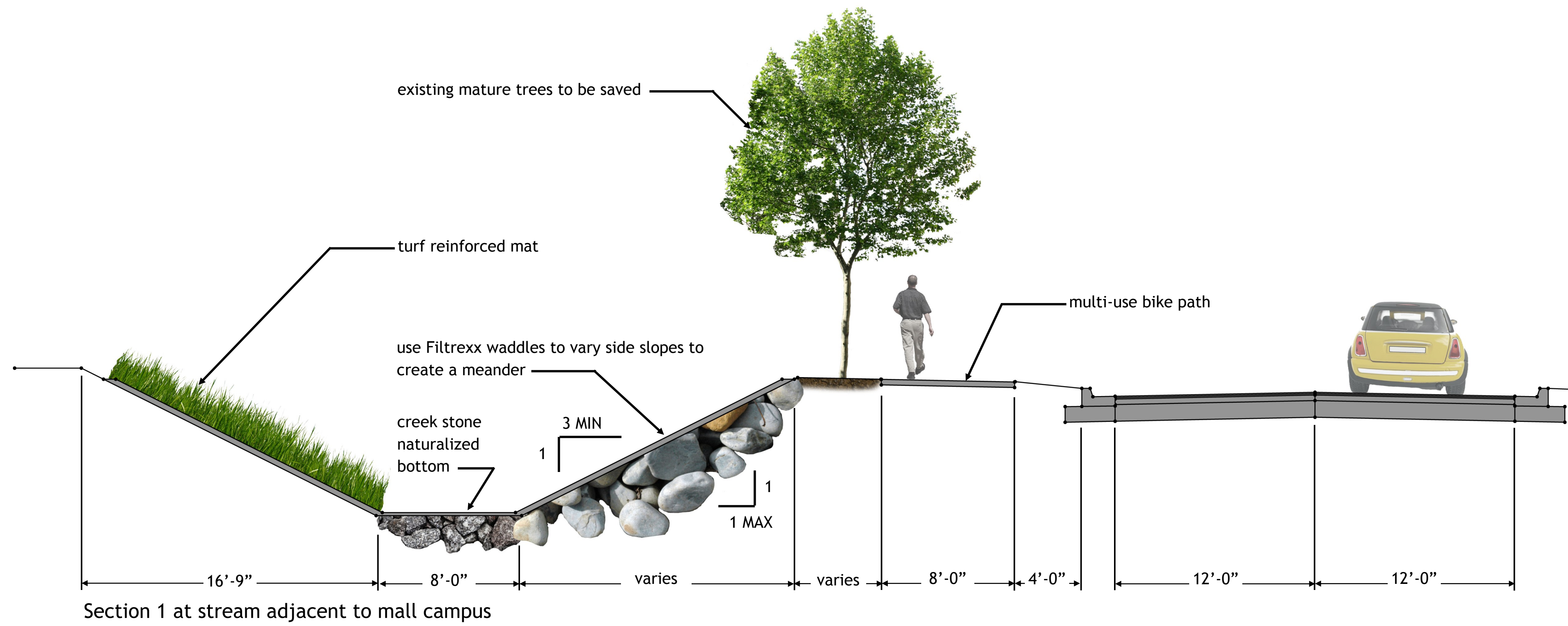
• With an average annual rainfall of 46.67", the current annual runoff from the site is 38.44". With the proposed changes, the **AVERAGE ANNUAL RUNOFF** will be **CUT BY 61%** reducing the amount to 9".



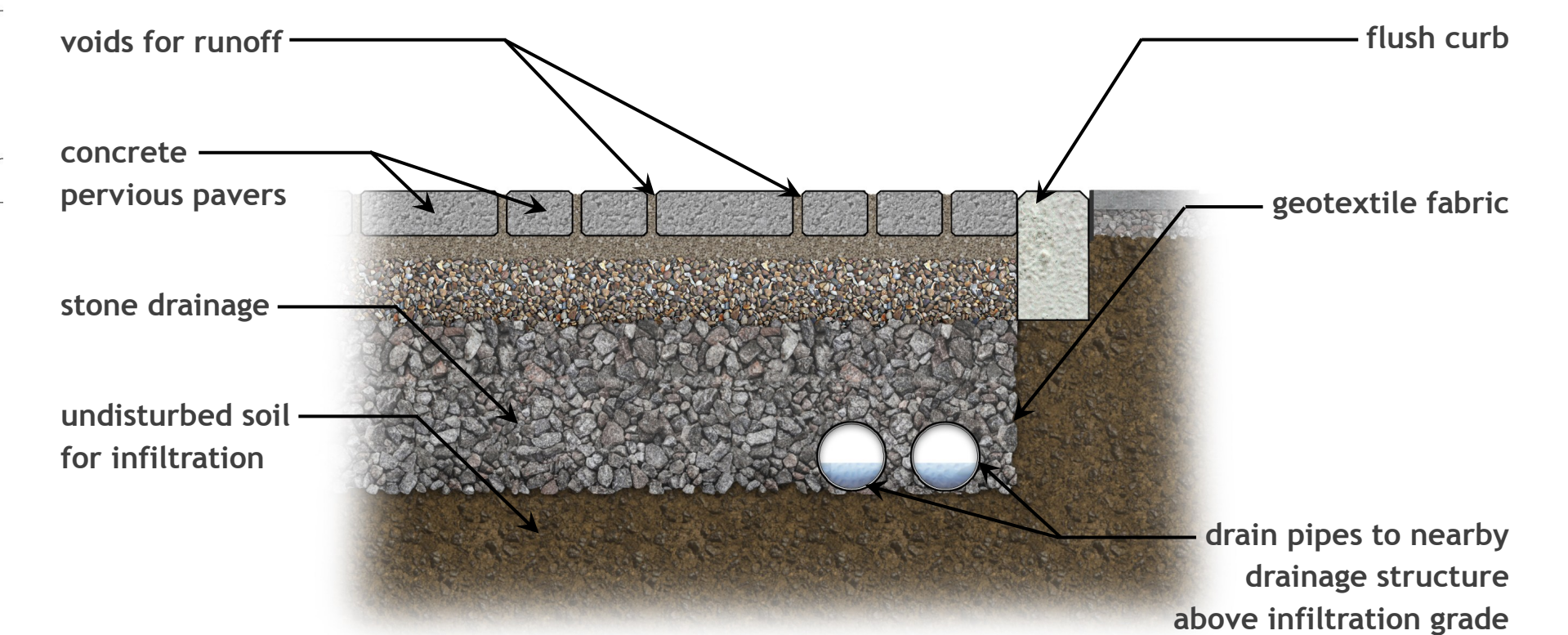
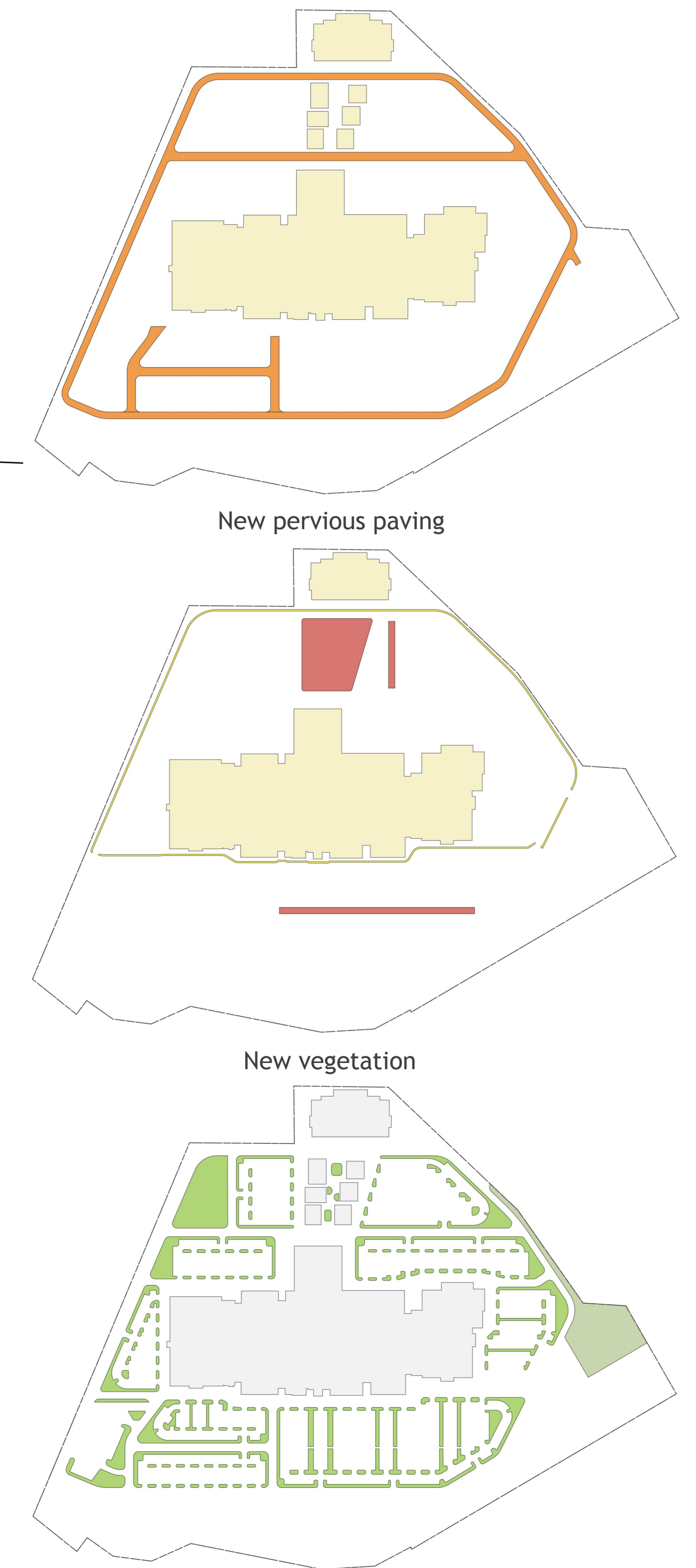
• **61.5 MILLION GALLONS** of storm water per year **INFILTRATED** instead of runoff to gray infrastructure.

• Yearly **STORM WATER FEE CREDITS** of **\$97,300.00**.

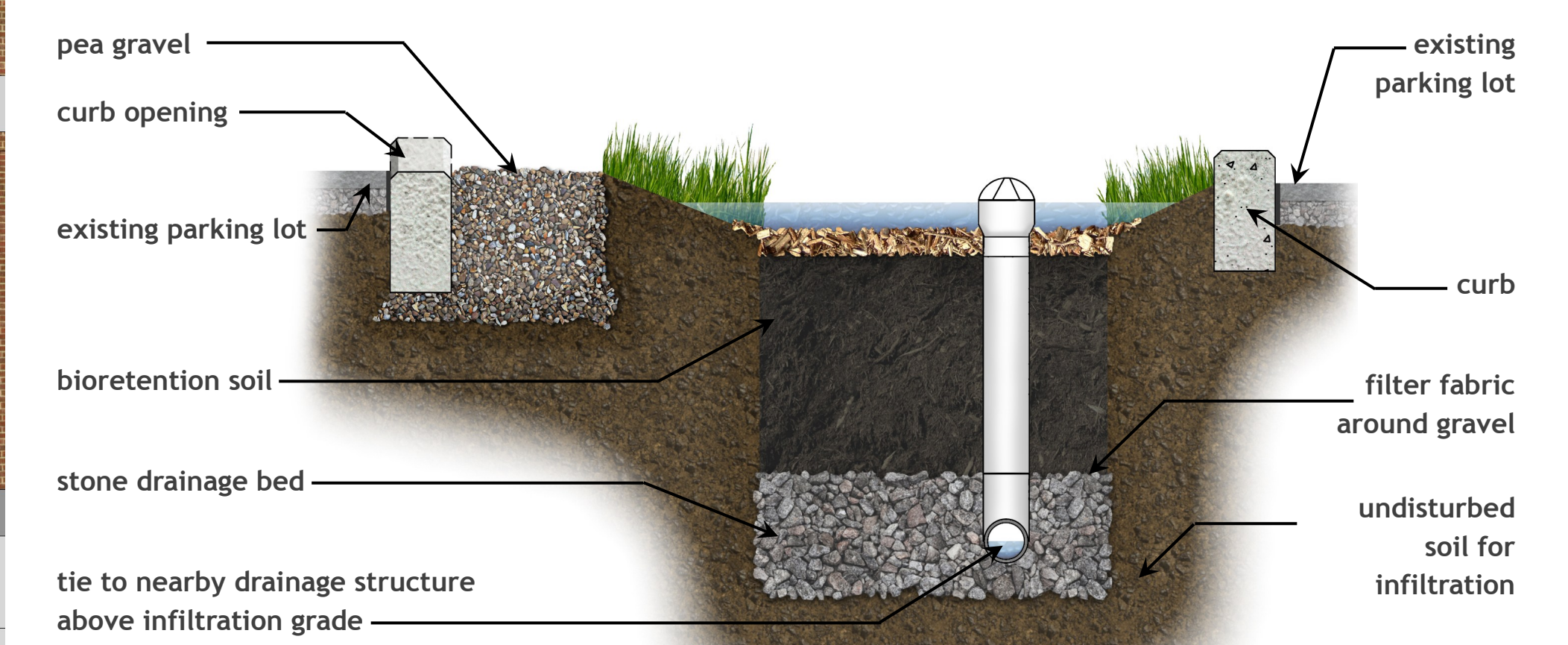
• Design **EXCEEDS THE 1" STAY ON VOLUME** required of 185,800 CF to 251,000 CF. The **65,200 CF EXTRA VOLUME** can be sold as coupons worth \$20/CF totaling **\$1,304,000**.



New / Revised circulation throughout site



Detail 1 - Typical at pervious paver pedestrian paths



Detail 2 - Typical at medians