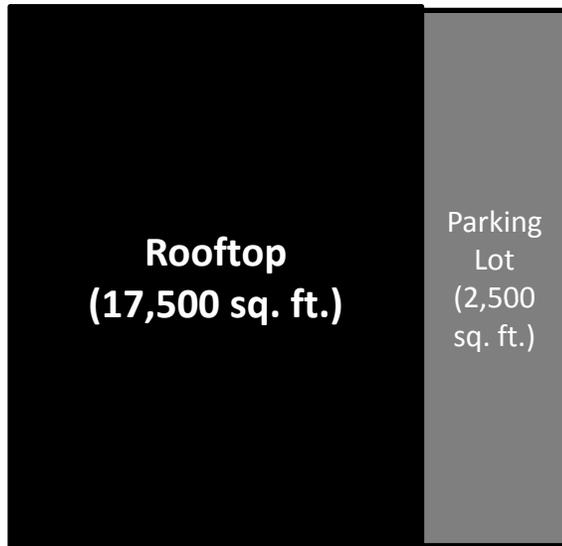




## Example of Discount Calculations

### Standard Calculation

#### BEFORE



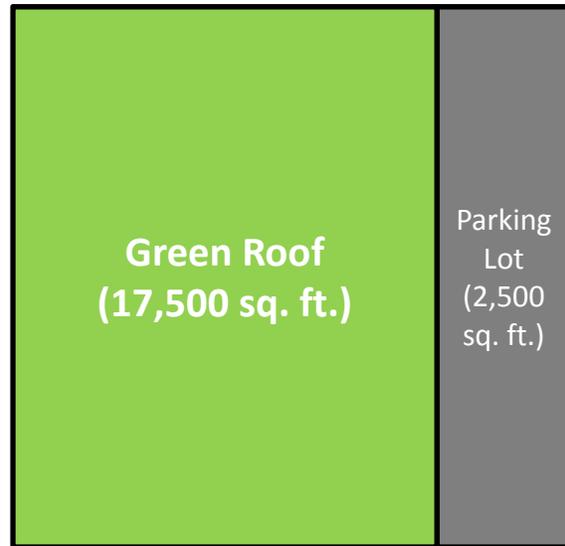
#### Site Details:

20,000 sq. ft. impervious surface = 20 ERUs

20 ERU x \$2.67/ERU/month =

**\$53.40 monthly payment before retrofit**

#### AFTER: GREEN ROOF RETROFIT



**Step 1:** Use engineering calculations to determine BMP's retention capacity (in gallons):

10,362 gal.

**Step 2:** Divide retention capacity by 710.75 gal/ERU:

$10,362 \div 710.75 = 14.6$  ERUs

**Step 3:** Multiply ERUs calculated in Step 2 by maximum discount percentage of 55%:

$14.6 \times 55\% = 8.1$  ERUs

**Step 4:** Multiply ERUs calculated in Step 3 by monthly stormwater fee:

$8.1 \times \$2.67/\text{month} = \$21.63$  (discount)

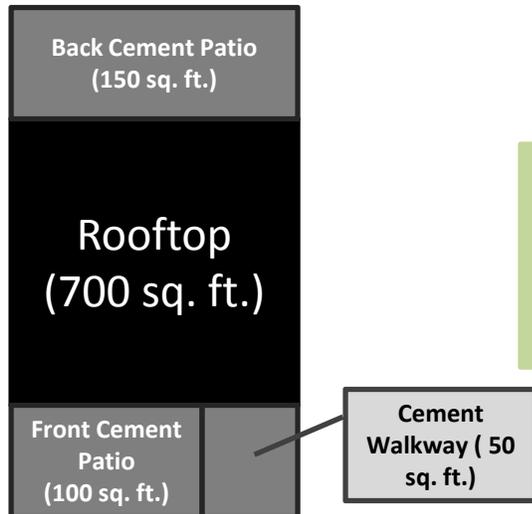
**Step 5:** Subtract monthly discount calculated in Step 4 from original monthly payment:

$\$53.40 - \$21.63 =$

**\$31.77 monthly payment after retrofit**

## Simplified Calculation, Scenario 1

### BEFORE



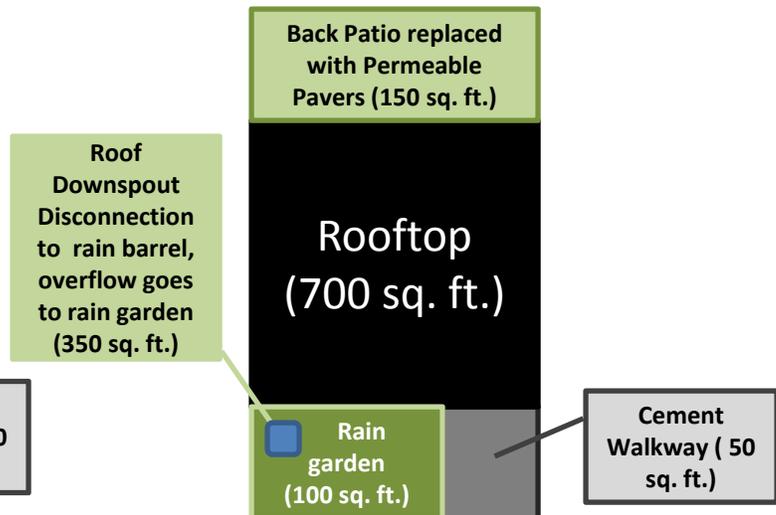
#### Site Details:

1,000 sq. ft. impervious surface = 1 ERUs (Tier 1)

1 ERU x \$2.67/ERU/month = \$2.67

**\$2.67 monthly payment before retrofit**

### AFTER RETROFIT



**Step 1:** Determine total area being treated by eligible BMPs in sq. ft.

- Back Patio: 150 sq. ft.
- Rain barrel overflow to rain garden: 350 sq. ft. (treated impervious rooftop)
- Rain garden: 100 sq. ft.

Total: 600 sq. ft.

**Step 2:** Divide total from Step 1 by total area of impervious surface to get the percentage of area treated.

$$600 \div 1,000 = 60\%$$

**Step 3:** Multiply total from Step 2 by the maximum discount percentage of 55%. This is the percentage discount.

$$60\% \times 55\% = 33\%$$

**Step 4:** Multiply percent calculated in Step 3 by monthly stormwater fee:

$$33\% \times \$2.67/\text{month} = \$0.88 \text{ (discount)}$$

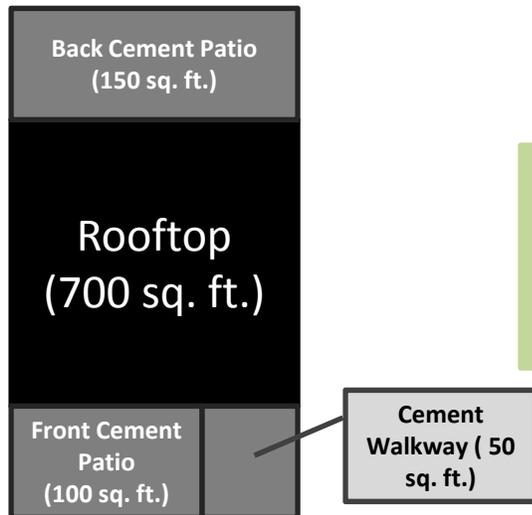
**Step 5:** Subtract monthly discount calculated in Step 4 from original monthly payment. Subtract an additional \$.35 for the rain barrel:

$$\$2.67 - \$0.88 - \$0.35 = \$1.44$$

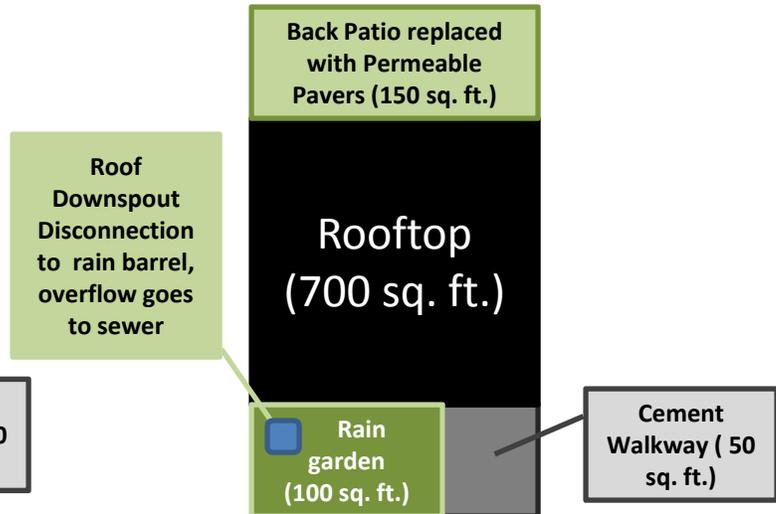
**\$1.44 monthly payment after retrofit**

## Simplified Calculation, Scenario 2

### BEFORE



### AFTER RETROFIT



#### Site Details:

1,000 sq. ft. impervious surface = 1 ERUs (Tier 1)

1 ERU x \$2.67/ERU/month = \$2.67

**\$2.67 monthly payment before retrofit**

**Step 1:** Determine total area being treated by eligible best management practices (in square footage).

Back Patio: 150 sq. ft.

Rain garden: 100 sq. ft.

Total: 250 sq. ft.

**Step 2:** Divide total square footage being treated by total area of impervious surface to get the percentage of area treated.

$250 \div 1,000 = 25\%$

**Step 3:** Multiply percent area calculated in Step 2 by maximum discount percentage of 55%. This is the percentage discount.

$25\% \times 55\% = 14\%$

**Step 4:** Multiply percent calculated in Step 3 by monthly stormwater fee:

$14\% \times \$2.67/\text{month} = \$0.37$  (discount)

**Step 5:** Calculate new monthly discount by subtracting monthly discount calculated in Steps 4. Subtract an additional \$.35 for the rain barrel:

$\$2.67 - \$0.37 - \$0.35 = \$1.95$

**\$1.95 monthly payment after retrofit**

## SIMPLIFIED CALCULATION EXPLAINED

In both Scenario 1 and 2, a disconnected downspout is routed into a rain barrel. However, in Scenario 1, the rain barrel overflow is used to water the rain garden. Under this scenario, the applicant will receive a credit for the square footage of the roof from which the rain barrel receives runoff, which is 350 square feet (1/2 the size of the roof). In addition, the applicant will receive a \$0.35 discount per month for the rain barrel installed.

In Scenario 2, the overflow from the rain barrel is connected to the storm sewer instead of being reused on site. In this case, the applicant will not receive credit from the roof runoff but will receive a \$0.35 discount for the rain barrel.