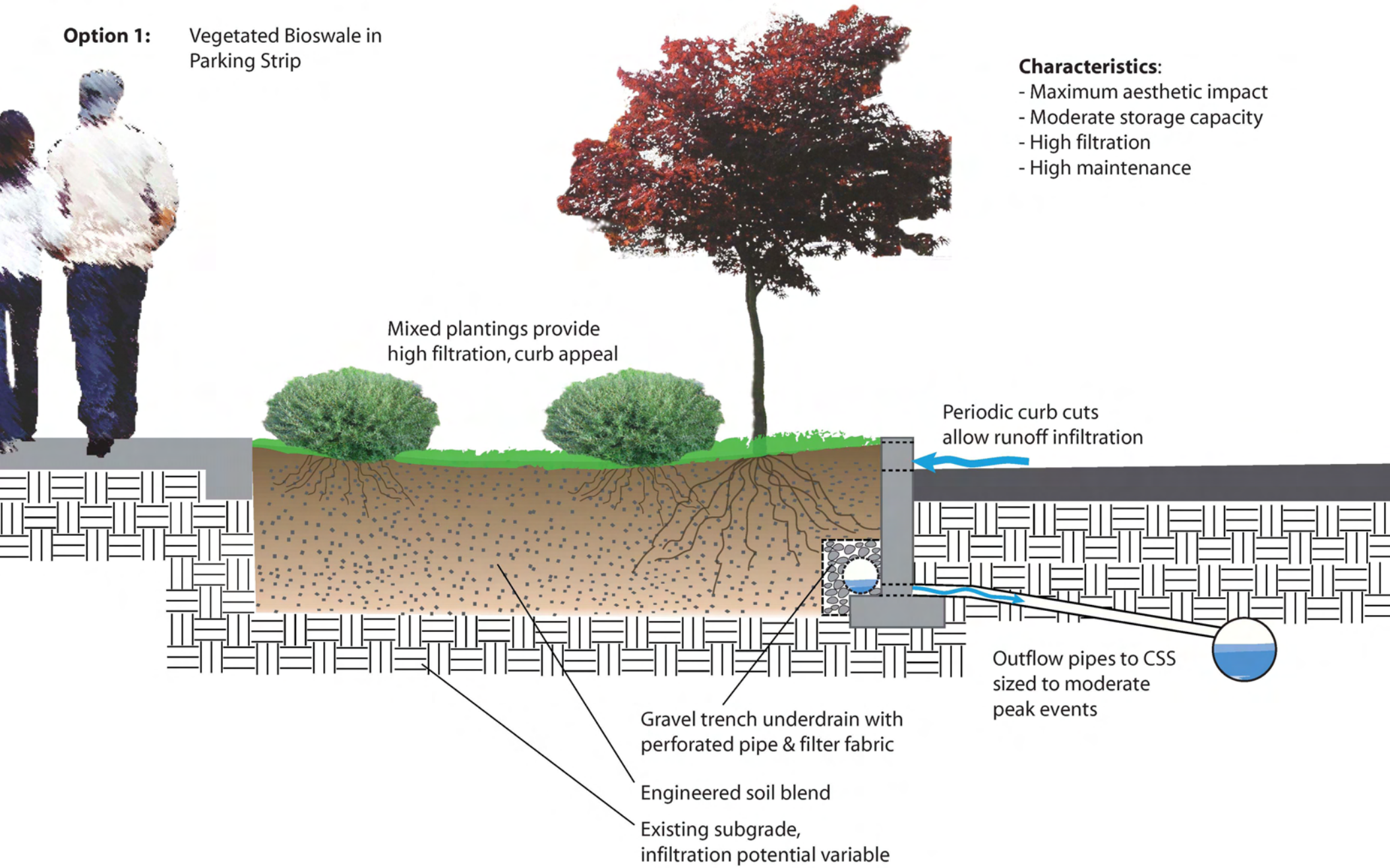
Barton Subbasin 416

GSI Alternatives Section

1/2″ = 1′-0″

Option 1: Vegetated Bioswale in Parking Strip



Characteristics:

- Maximum aesthetic impact
- Moderate storage capacity
- High filtration
- High maintenance

Barton Subbasin 416

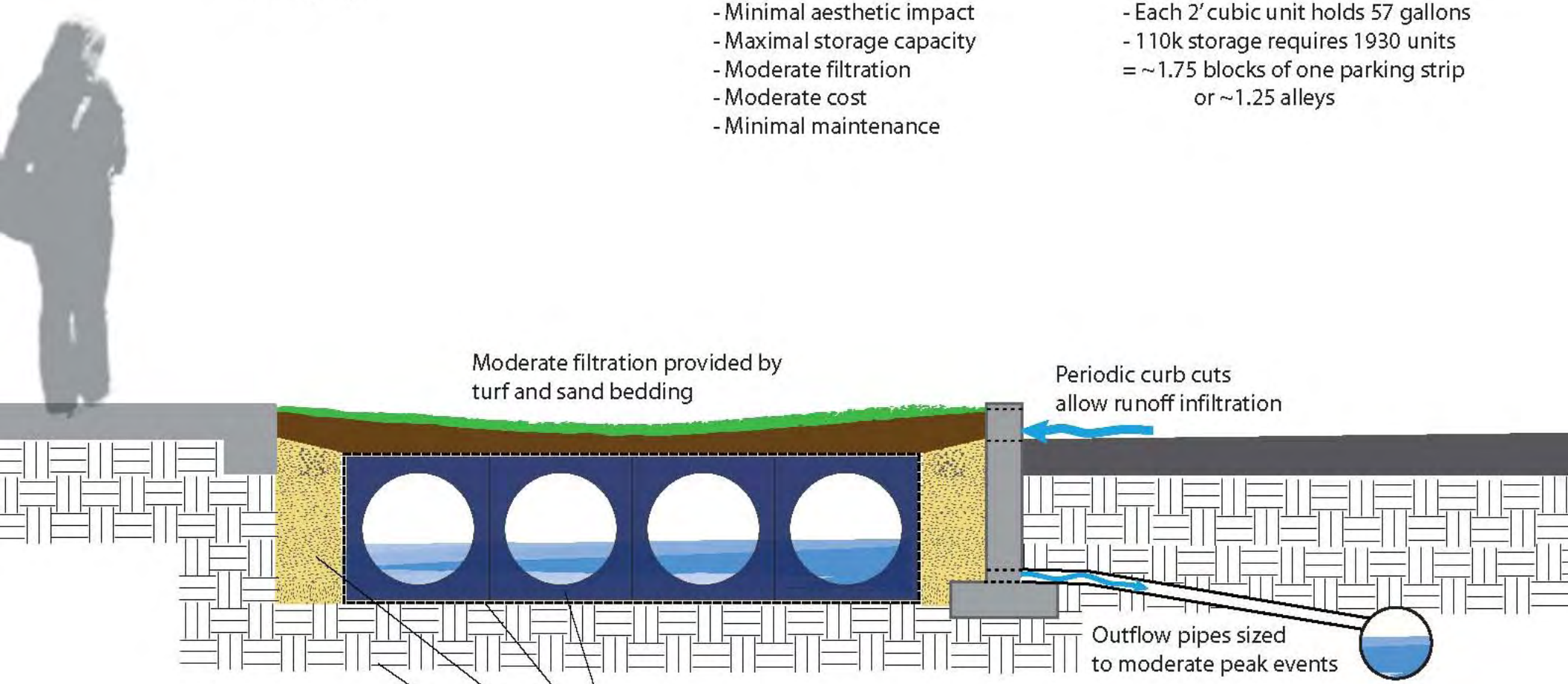
GSI Alternatives Section

1/2″ = 1′-0″

Option 2: Distributed Storage in Parking Strips

Characteristics:
- Minimal aesthetic impact
- Maximal storage capacity
- Moderate filtration
- Moderate cost
- Minimal maintenance

Capacities:
- Each 2′ cubic unit holds 57 gallons
- 110k storage requires 1930 units
= ~1.75 blocks of one parking strip
or ~1.25 alleys



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GSI Alternatives Section

1/2″= 1′-0″

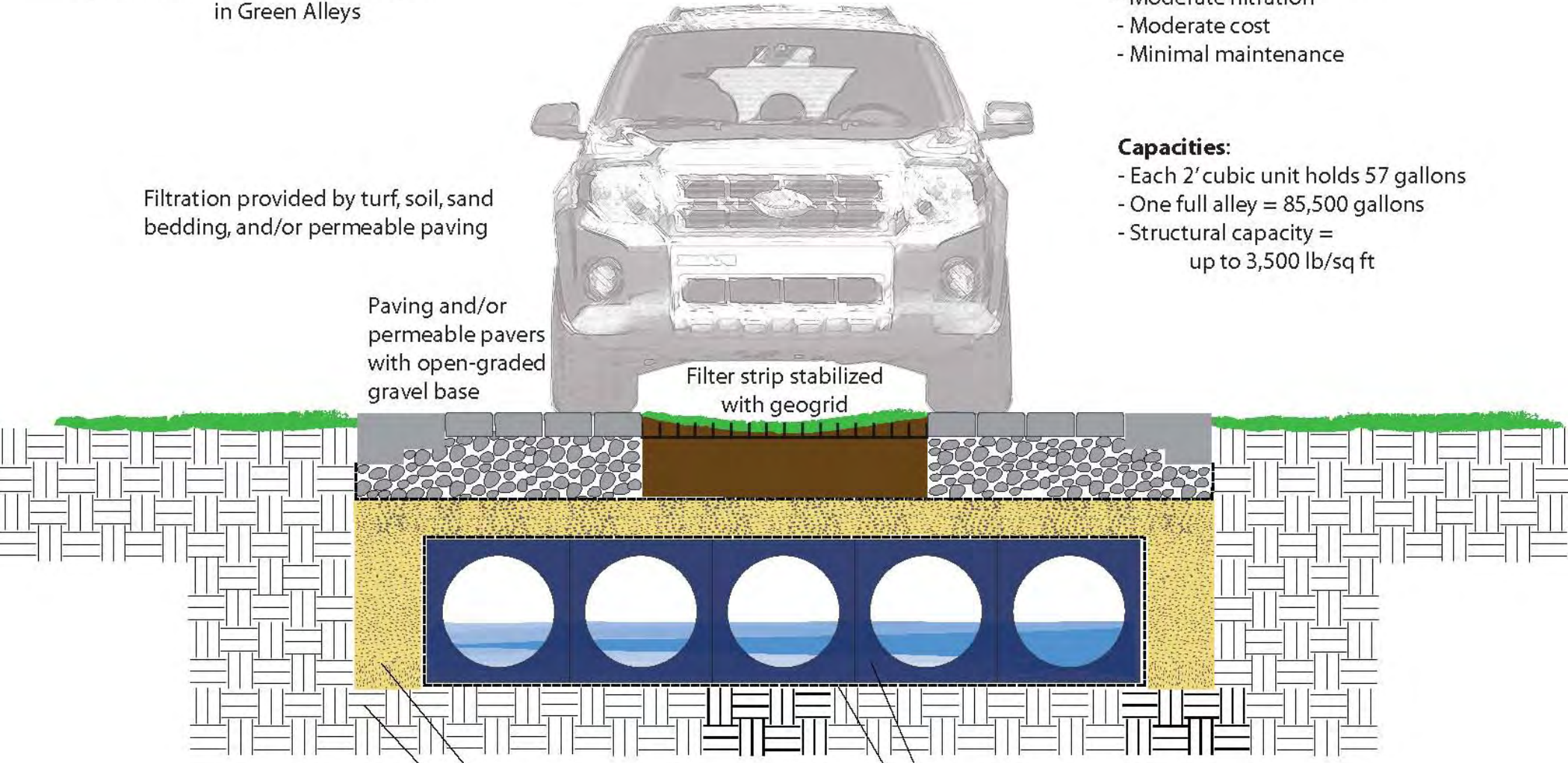
Option 3: Distributed Storage in Green Alleys

Characteristics:

- Moderate aesthetic impact
- Maximal storage capacity
- Moderate filtration
- Moderate cost
- Minimal maintenance

Capacities:

- Each 2′ cubic unit holds 57 gallons
- One full alley = 85,500 gallons
- Structural capacity = up to 3,500 lb/sq ft



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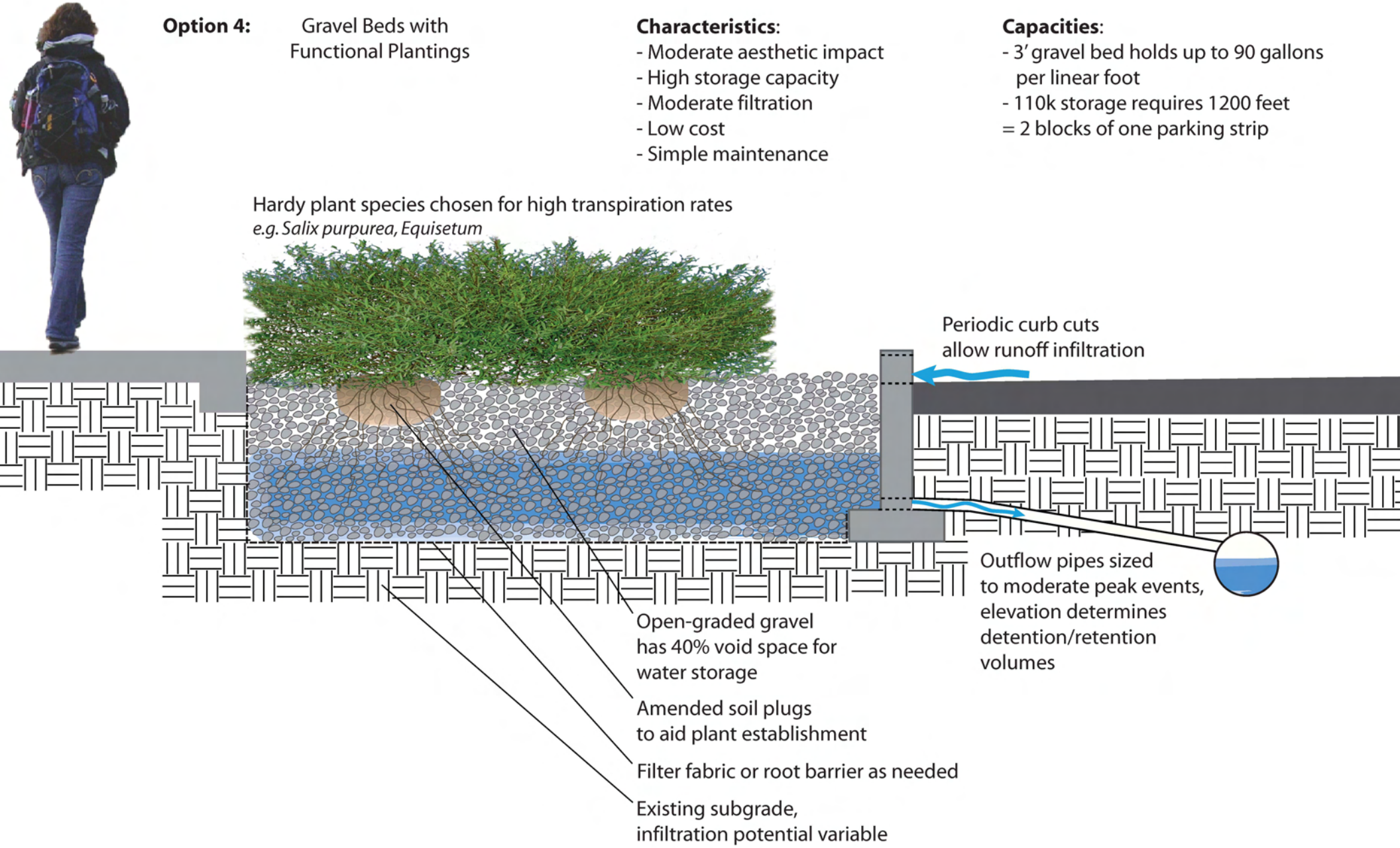
GSI Alternatives Section

1/2″ = 1′-0″

Option 4: Gravel Beds with Functional Plantings

Characteristics:
- Moderate aesthetic impact
- High storage capacity
- Moderate filtration
- Low cost
- Simple maintenance

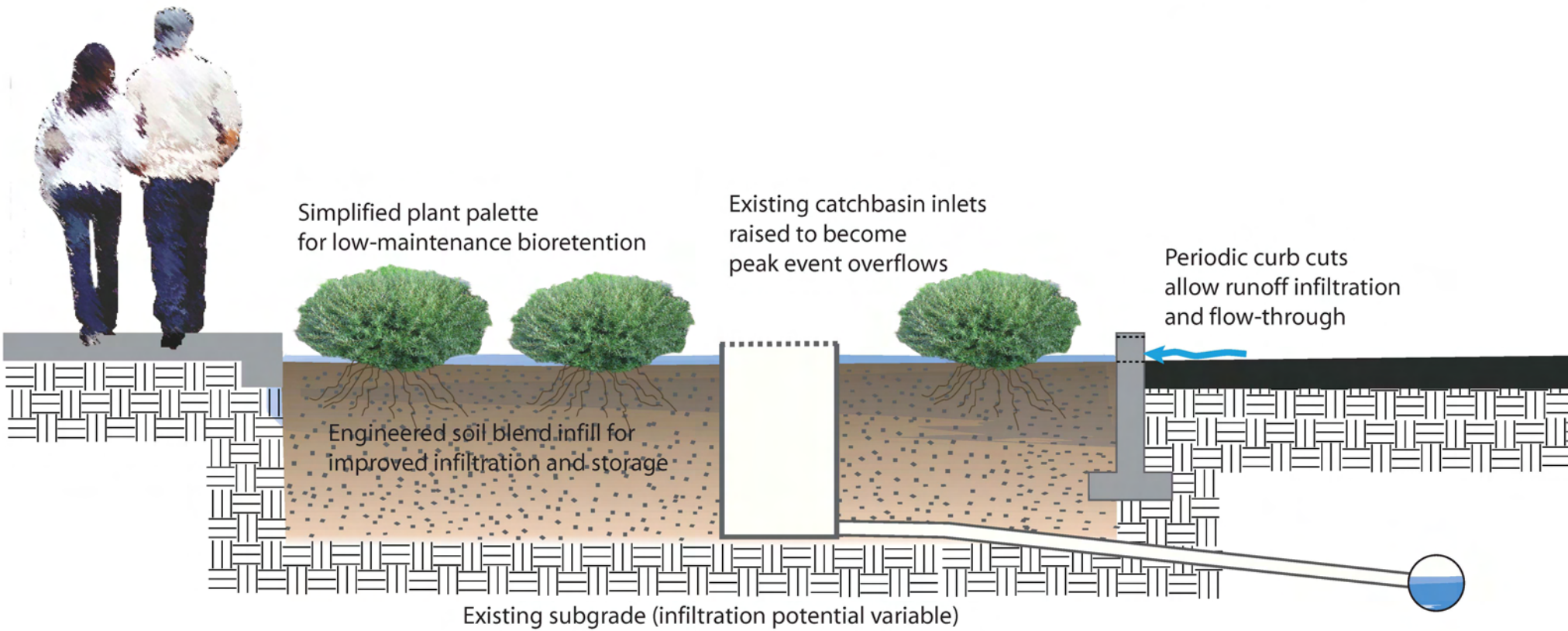
Capacities:
- 3′ gravel bed holds up to 90 gallons per linear foot
- 110k storage requires 1200 feet = 2 blocks of one parking strip



Barton Subbasin 416

GSI Alternatives Section

3/8″ = 1′-0″

Option 5: Flow-through Curb Extension
Bioswales in Parking Strip

Characteristics:
- Moderate aesthetic impact
- Moderate storage capacity
- High filtration
- Low maintenance