



**Ajuntament
de Barcelona**

BIMSA, Barcelona
d'Infraestructures Municipals

MINERAL CHALLENGE

CONSTRUCTION WASTE IN CATALONIA AREA

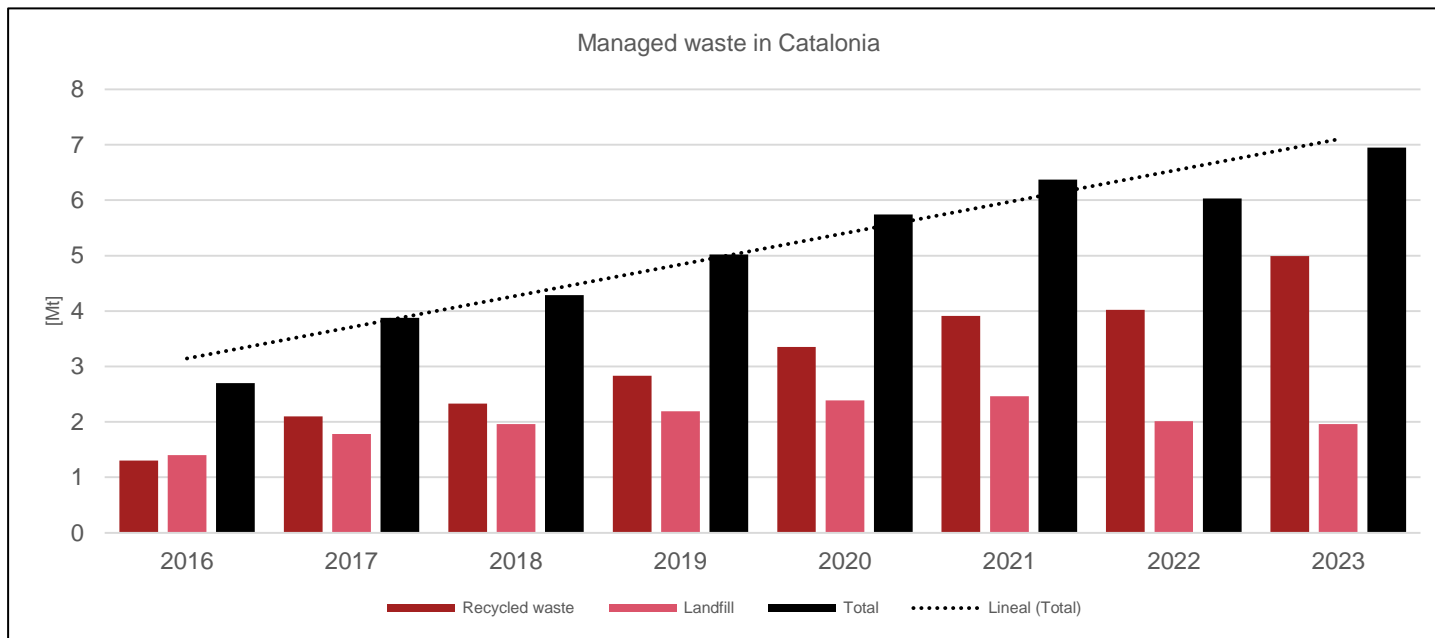
- In 2023, Catalonia generated **7,26 M tons**⁽¹⁾ of construction waste, including concrete, bricks, wood, plastic, and soil (excluding fiber cement).
- Proper management of this waste is essential for the country's sustainability, as it holds significant recycling potential.



(1) Source: Els residus de la construcció gestionats a Catalunya l'any 2023, *Agència de Residus de Catalunya*

CONSTRUCTION WASTE IN CATALONIA AREA

- The amount recycled increases by 3 to 6% each year since 2016.
- The relative percentage between recycling plants and landfills increases each year.





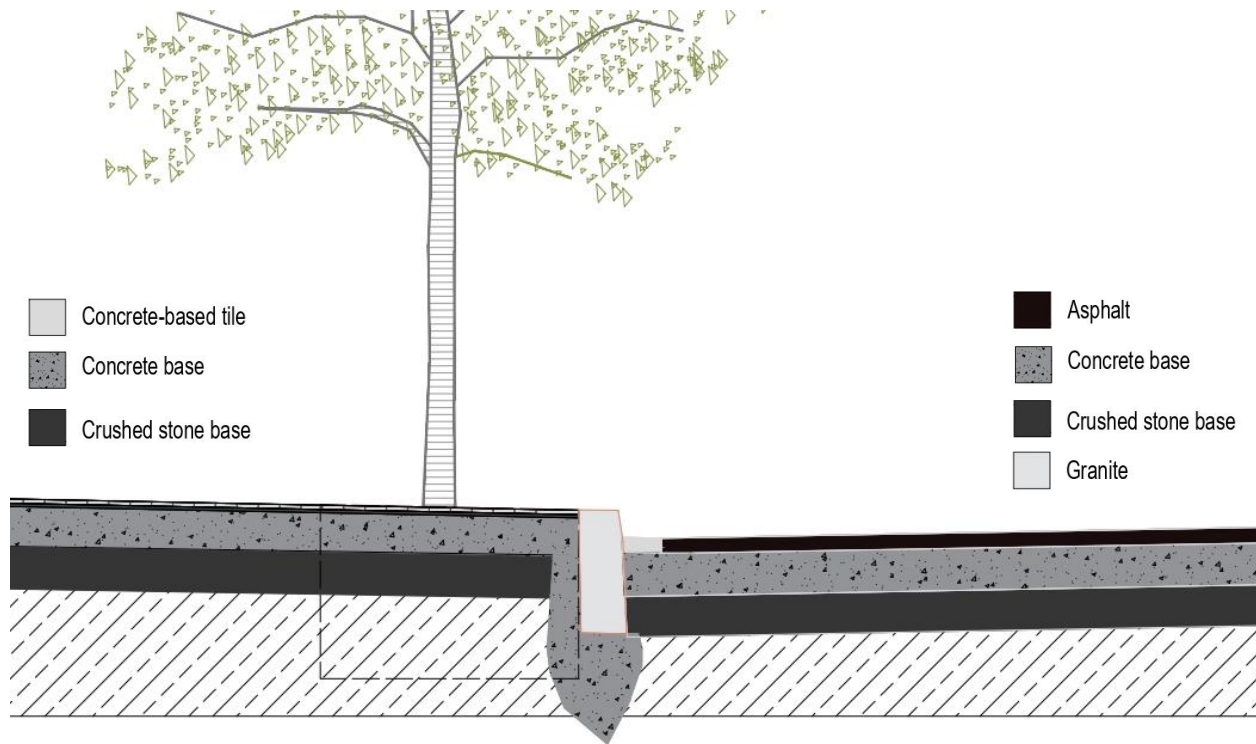
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New streets type sections

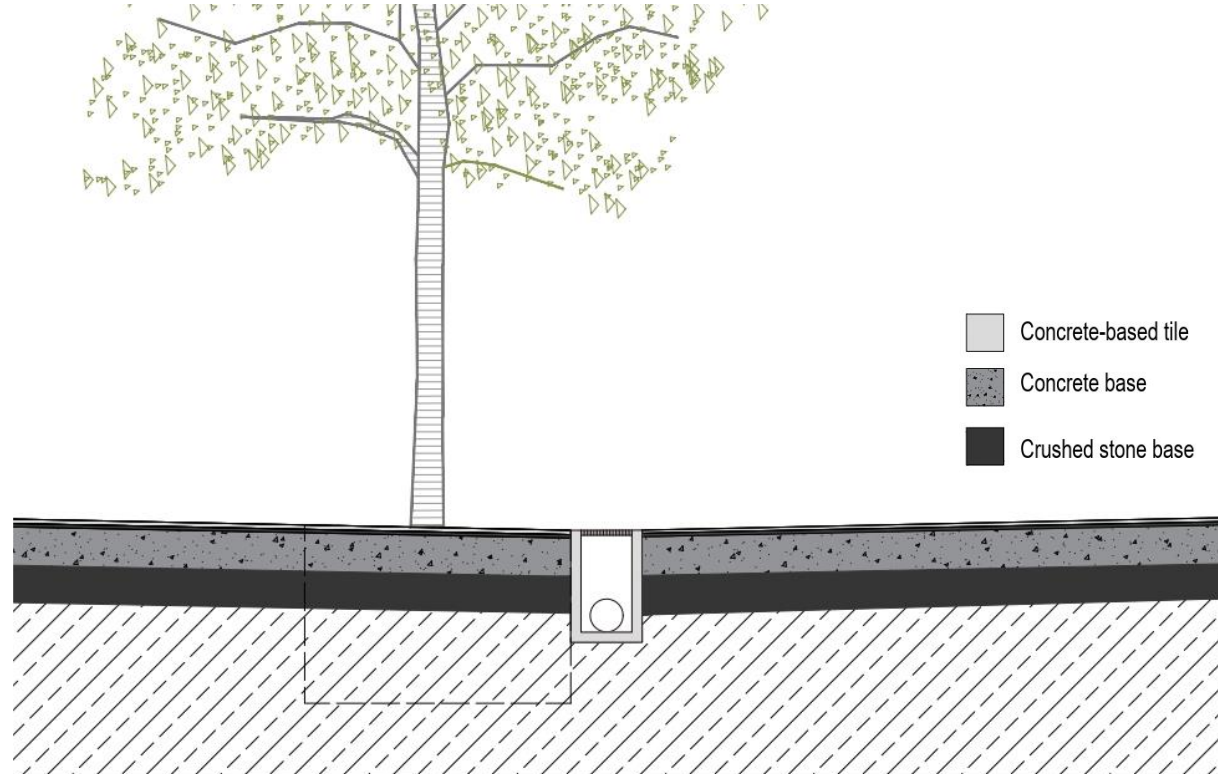
1. INTRODUCTION – BARCELONA'S NEW STREET TYPE SECTION (2 LEVELS STREET)

- Generic cross-section of the new street in Barcelona.
- It consists of a segregated platform with 5m of sidewalks on each side and 10 m in the center for vehicle mobility.



1. INTRODUCTION – BARCELONA'S NEW STREET TYPE SECTION (SINGLE PLATFORM STREET)

- Single platform with no segregation between pedestrians and vehicles.
- Sidewalks are integrated into the roadway, shared by both pedestrians and vehicles.
- The platform width is evenly distributed for balanced circulation.
- Vehicle speeds are reduced to improve pedestrian safety.
- Pedestrians always have priority





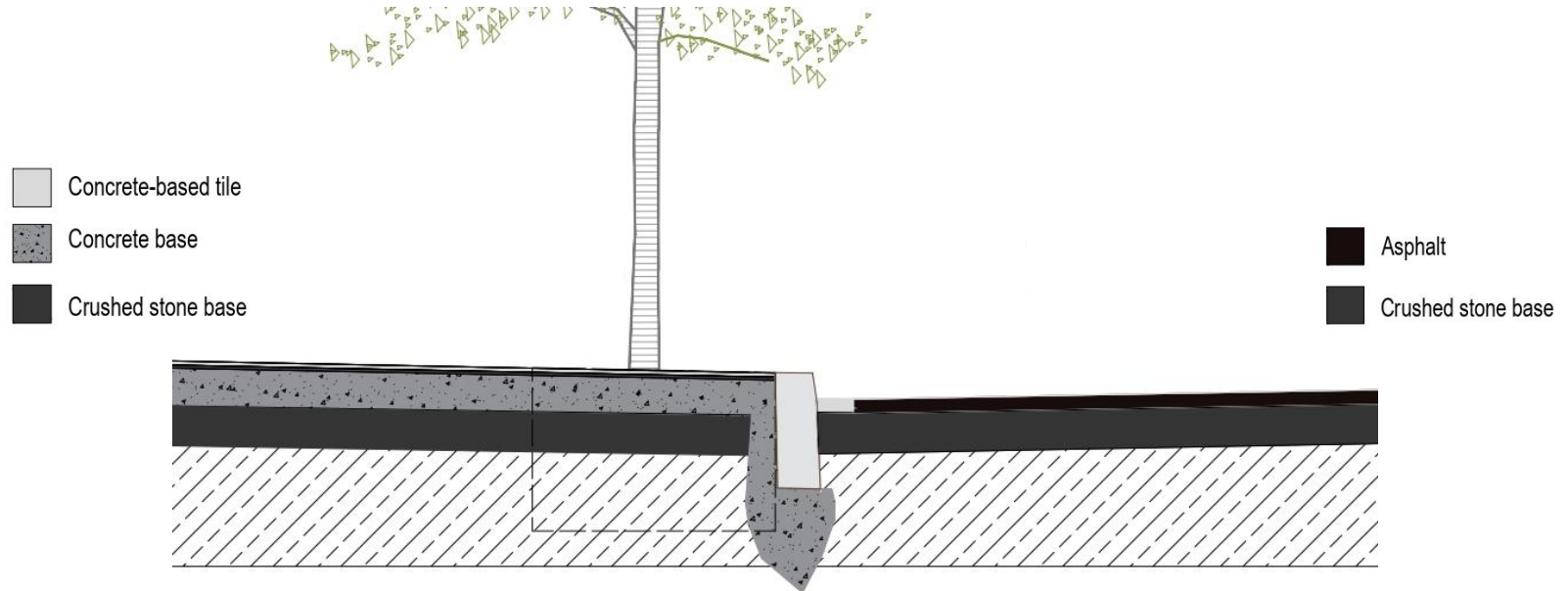
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Existing streets type sections

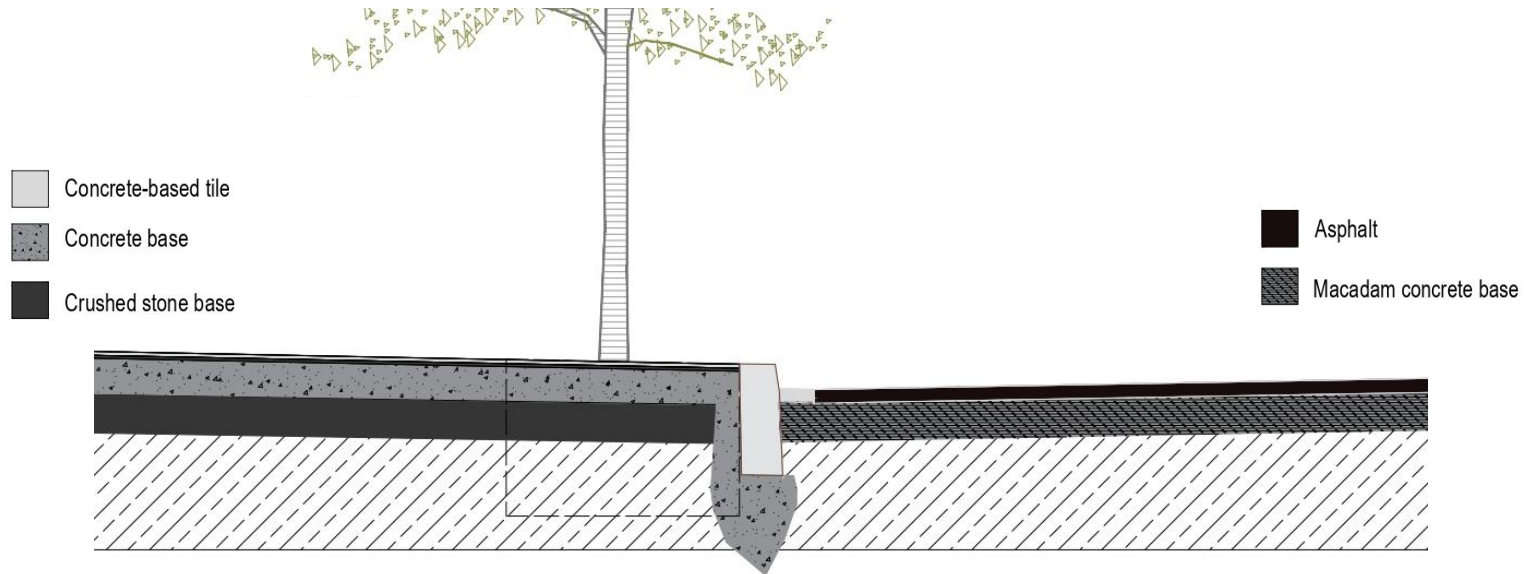
2. EXISTING STREETS TYPOLOGIES

2.1 Asphalt pavement – Crushed stone base



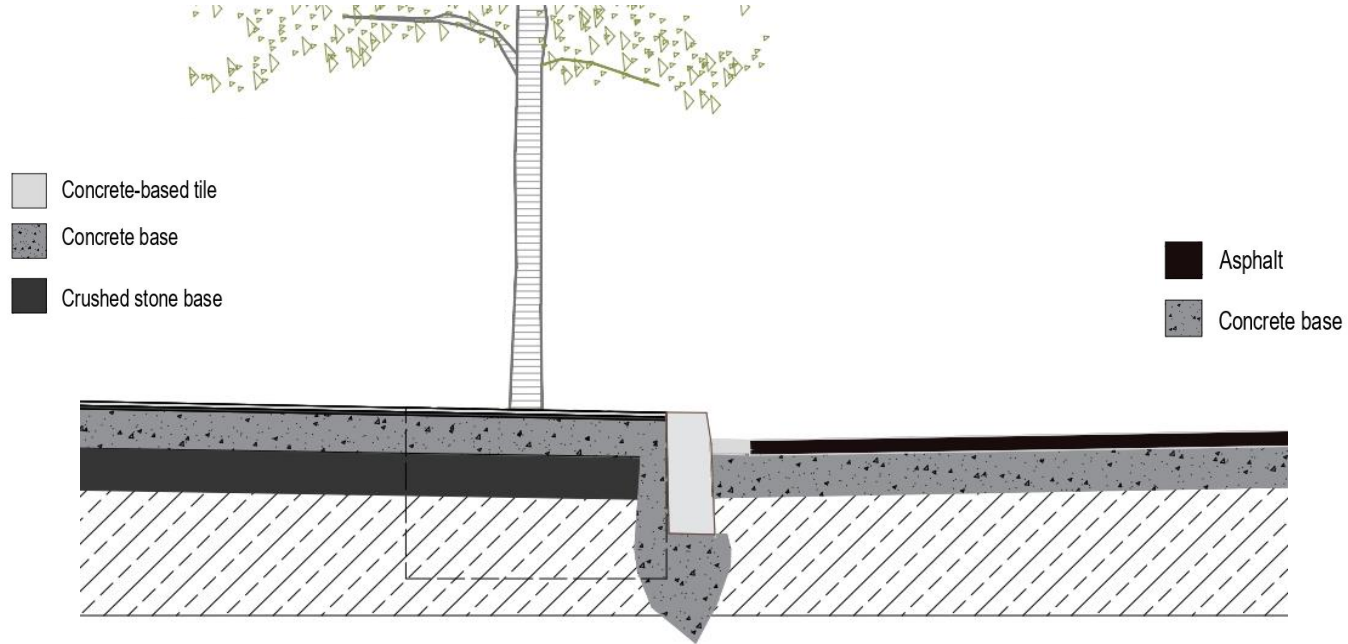
2. EXISTING STREETS TYPOLOGIES

2.2 Asphalt pavement – Macadam concrete base upon terrain



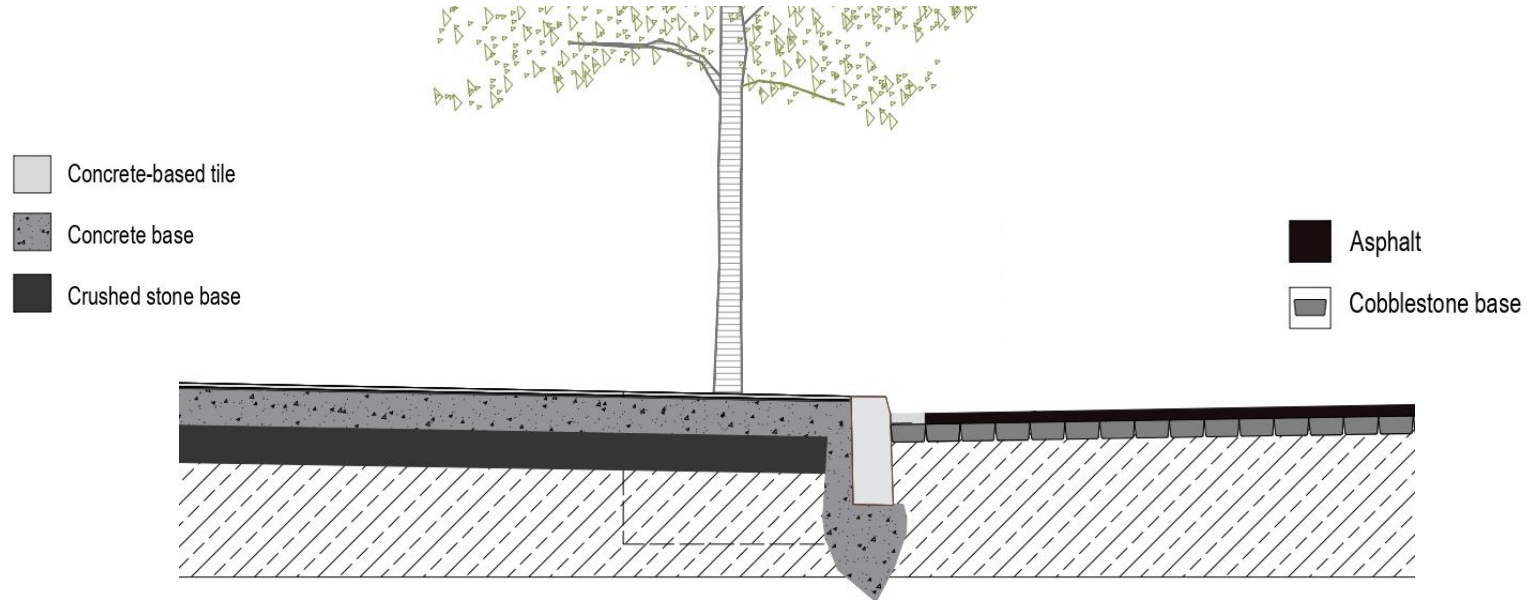
2. EXISTING STREETS TYPOLOGIES

2.3 Asphalt pavement – Concrete base upon terrain



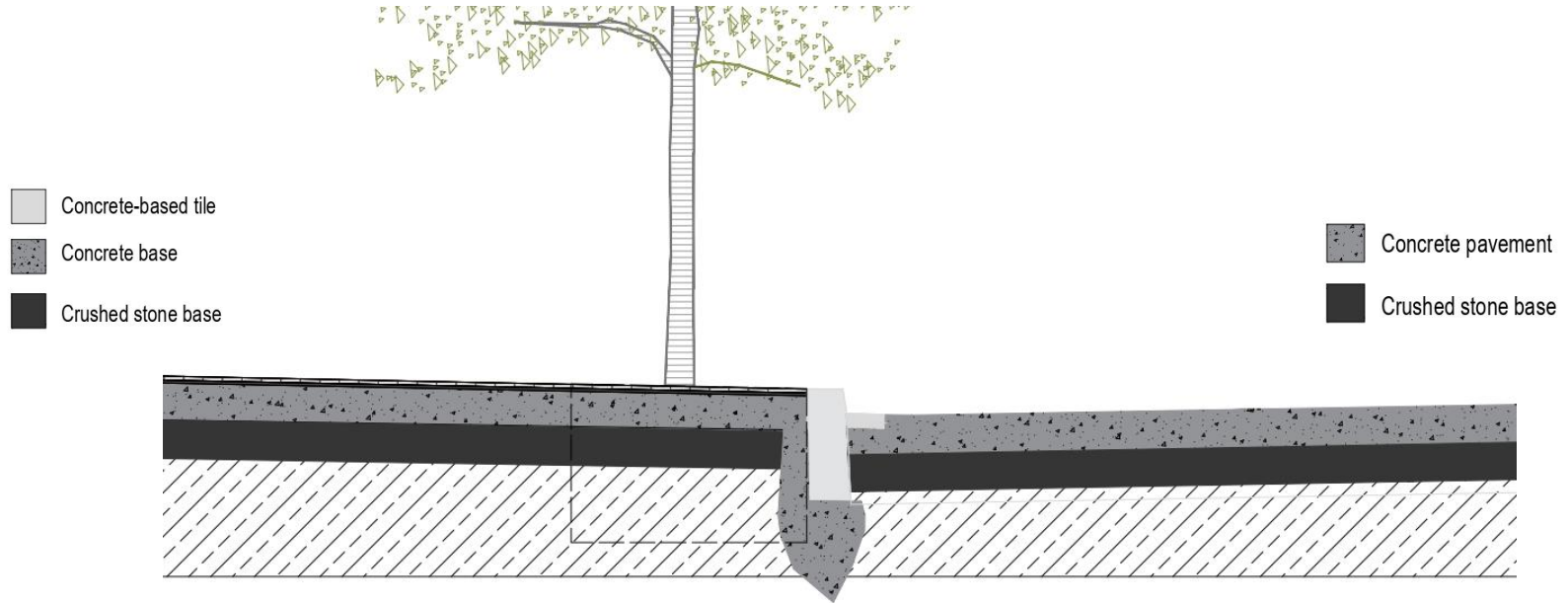
2. EXISTING STREETS TYPOLOGIES

2.4 Asphalt pavement – Cobblestones base upon terrain



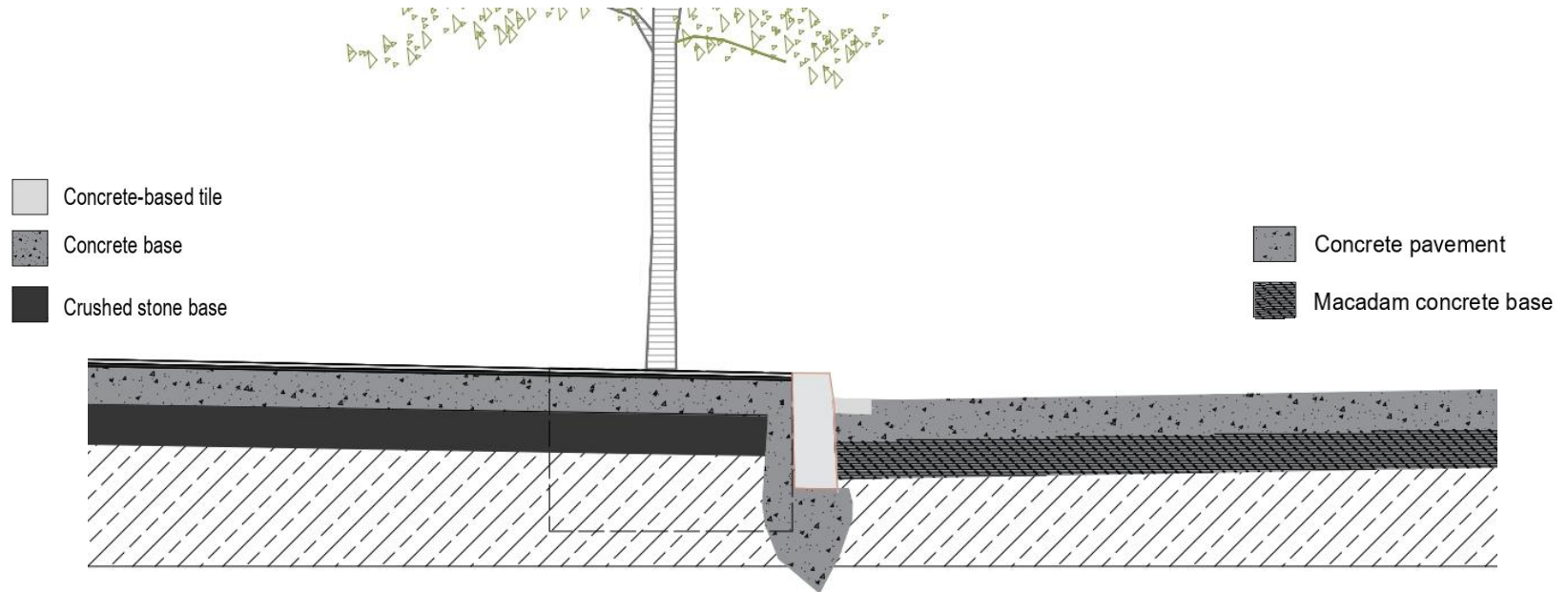
2. EXISTING STREETS TYPOLOGIES

2.5 Concrete pavement – Crushed stone



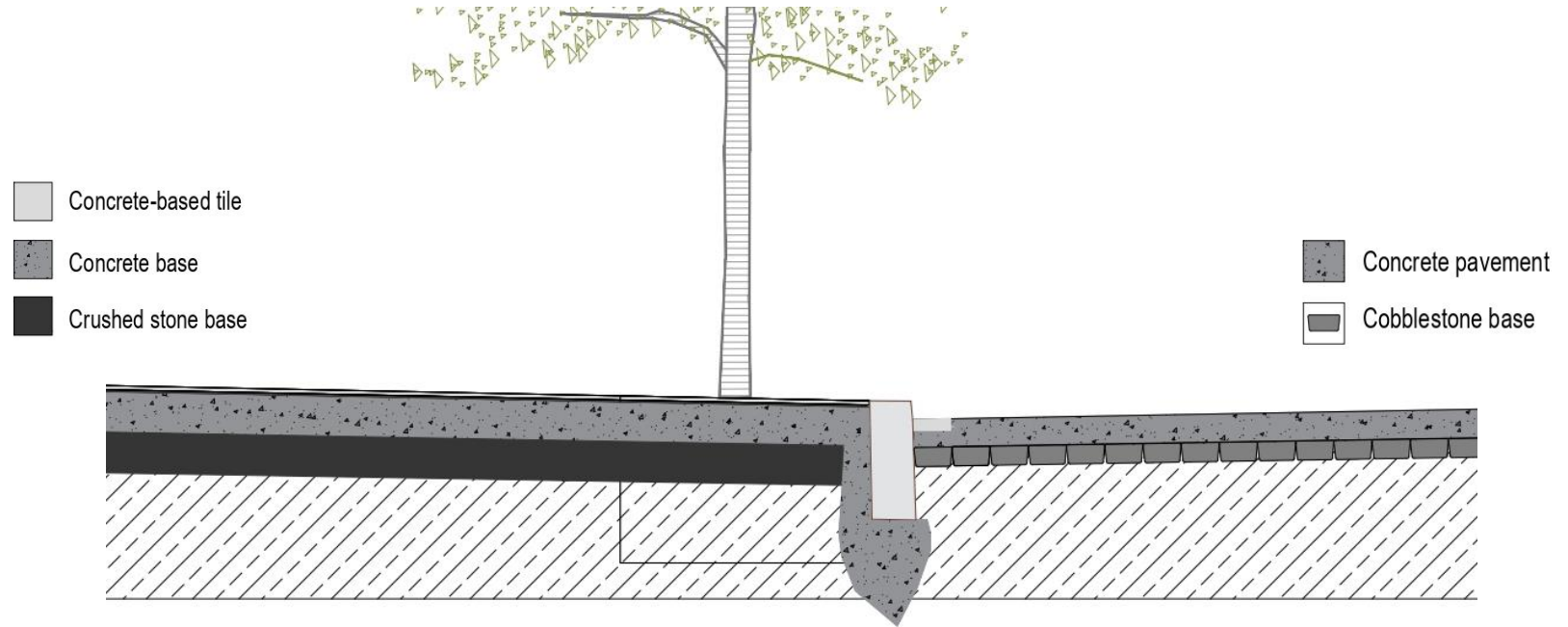
2. EXISTING STREETS TYPOLOGIES

2.6 Concrete pavement – Macadam concrete base



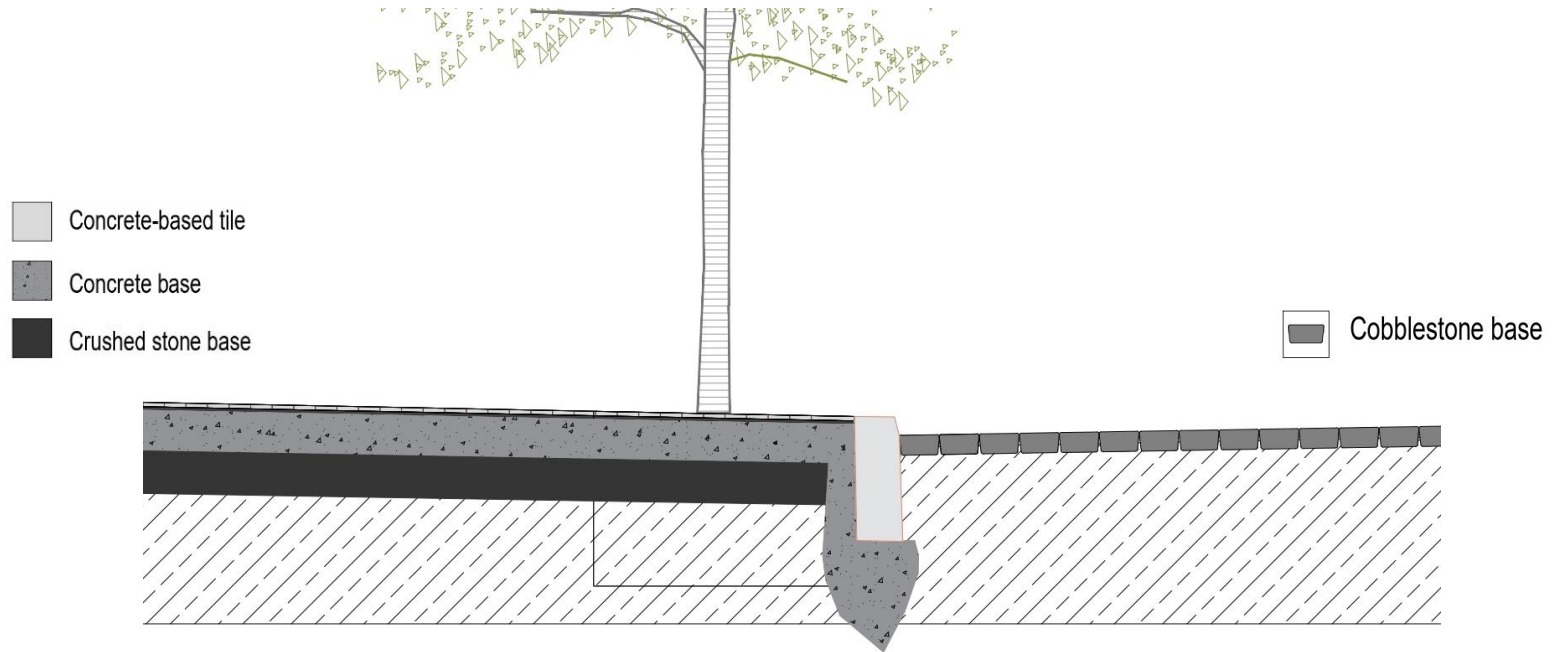
2. EXISTING STREETS TYPOLOGIES

2.7 Concrete pavement – Cobblestone base



2. EXISTING STREETS TYPOLOGIES

2.8 Slab pavement – Granite cobblestones base upon terrain



2. EXISTING STREETS TYPOLOGIES

2.9 Slab pavement – Sandstone, Granite or Precast slab over base

