



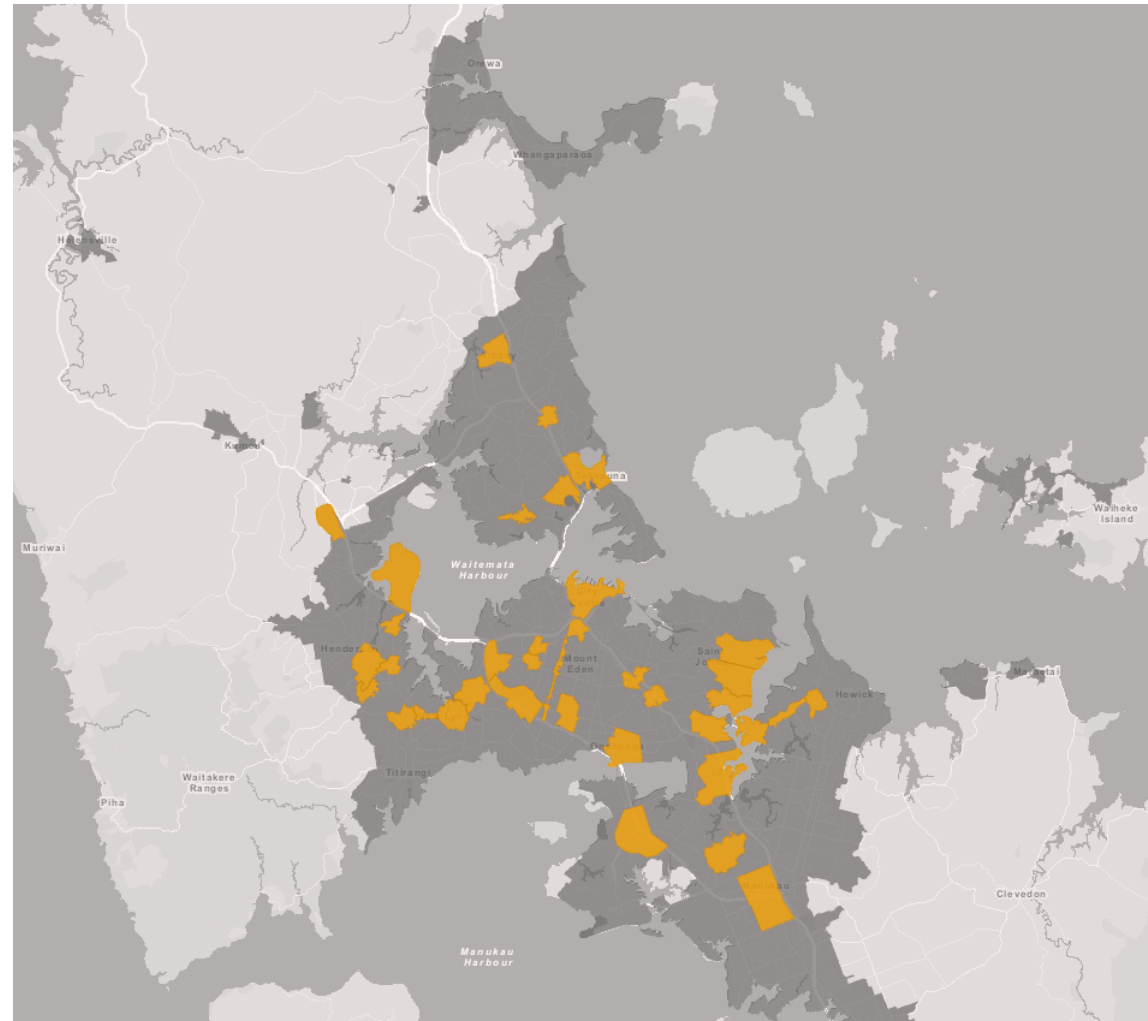
# AUCKLAND UNITARY PLAN SMAF RULES: A STORMWATER ENGINEER'S EXPERIENCE

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May 2018

**HARRISON  
GRIERSON**

# DEVELOPING AUCKLAND



-  Future Development Areas
-  Existing Urban Areas

Auckland Council The Auckland Plan: Development Strategy – Existing Urban



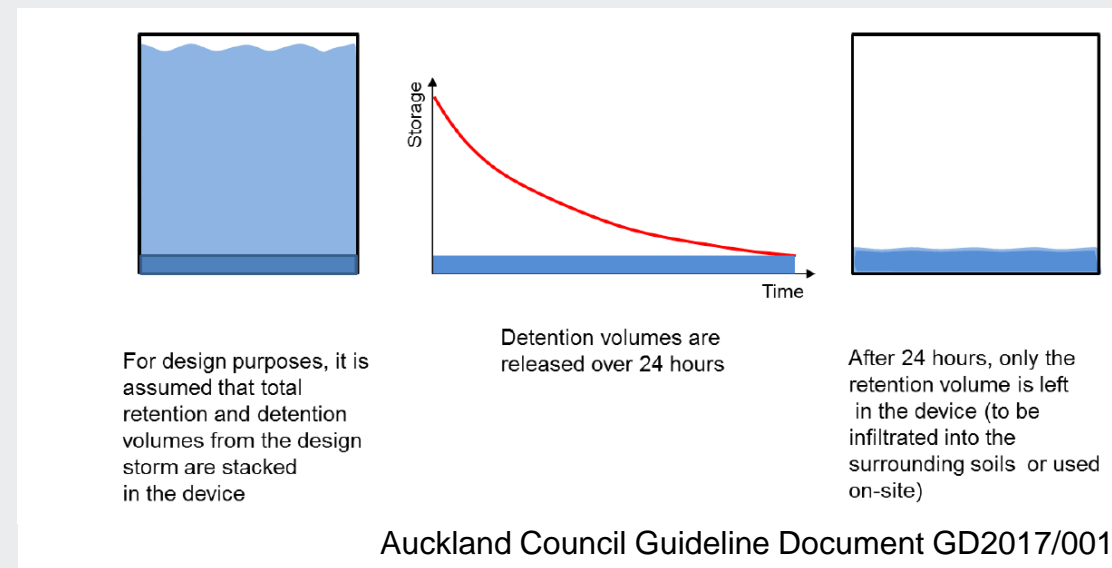
- ❑ **Promote inter-disciplinary planning and design**
- ❑ **Protect and enhance the values and functions of natural ecosystems**
- ❑ **Address stormwater effects as close to source as possible**
- ❑ **Mimic natural systems and processes for stormwater management**



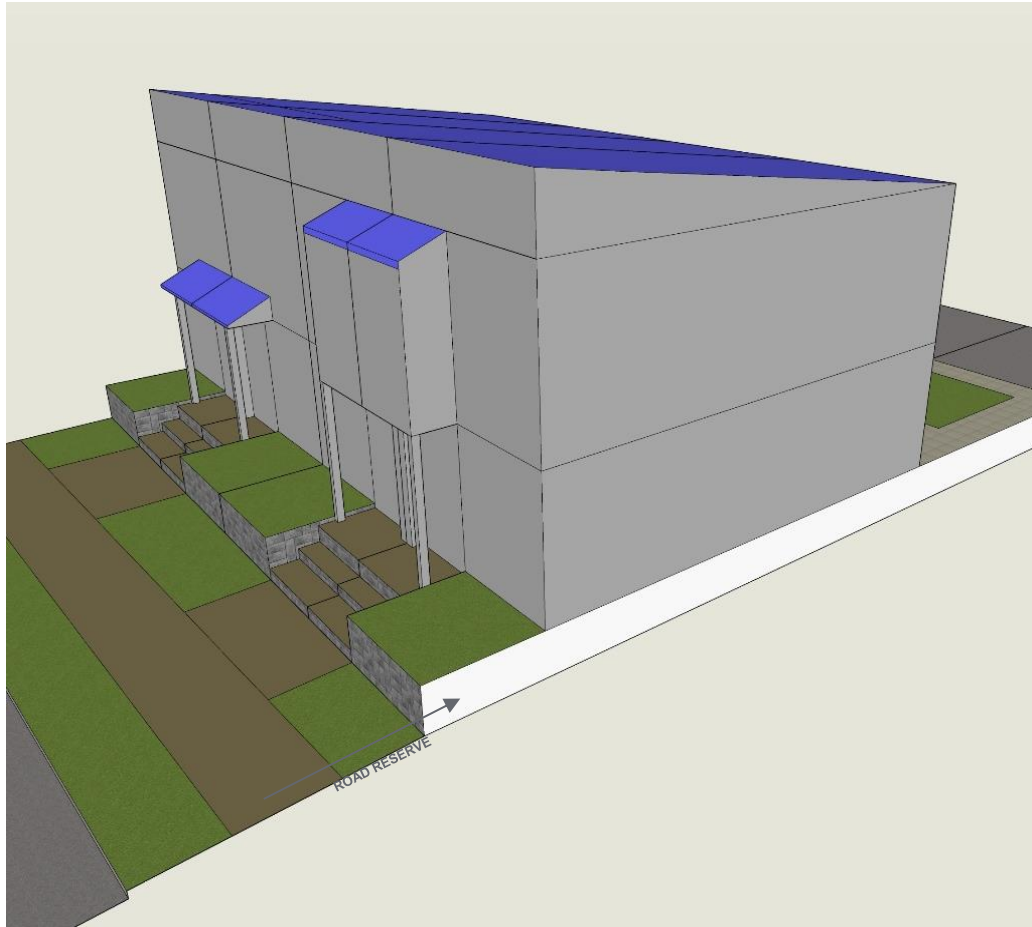
## Retention: Volume Reduction

- Groundwater recharge or non-potable reuse

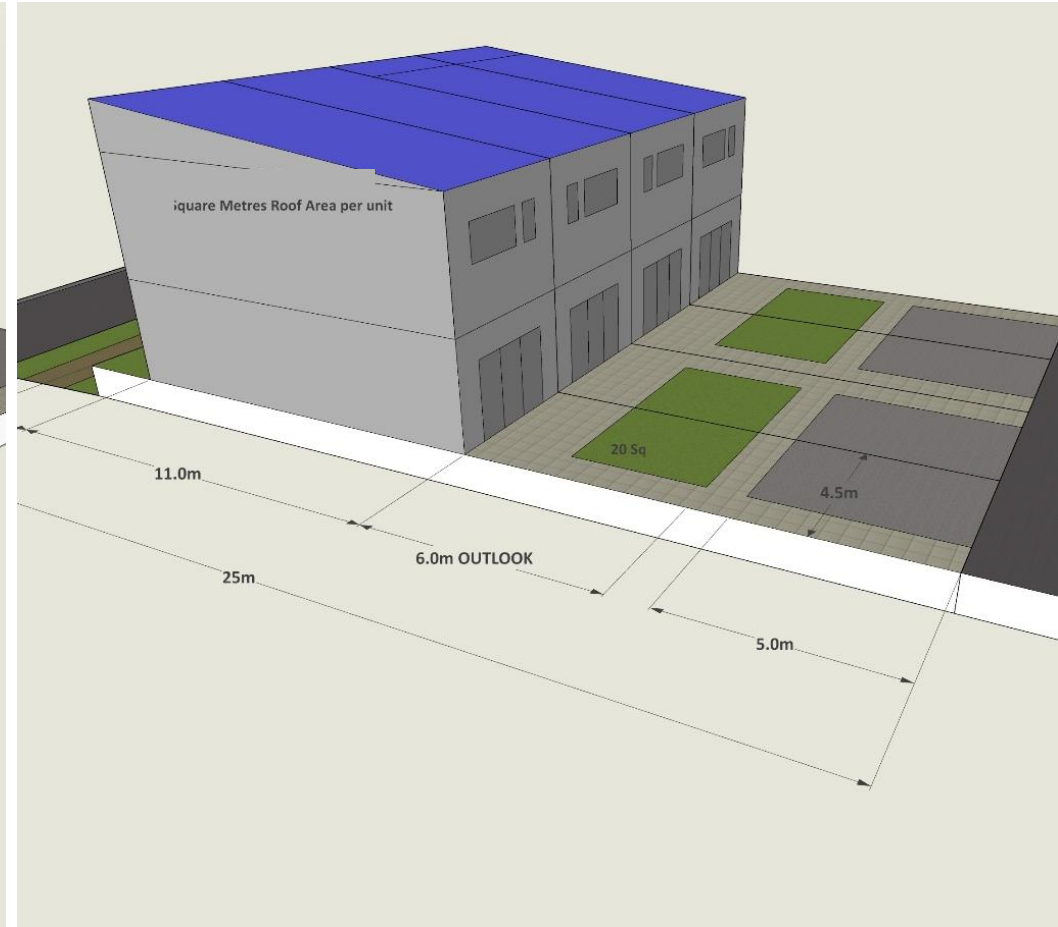
## Retention: Discharge Moderation



# CASE STUDY: TERRACED HOUSE IN AUCKLAND



Front of Lot

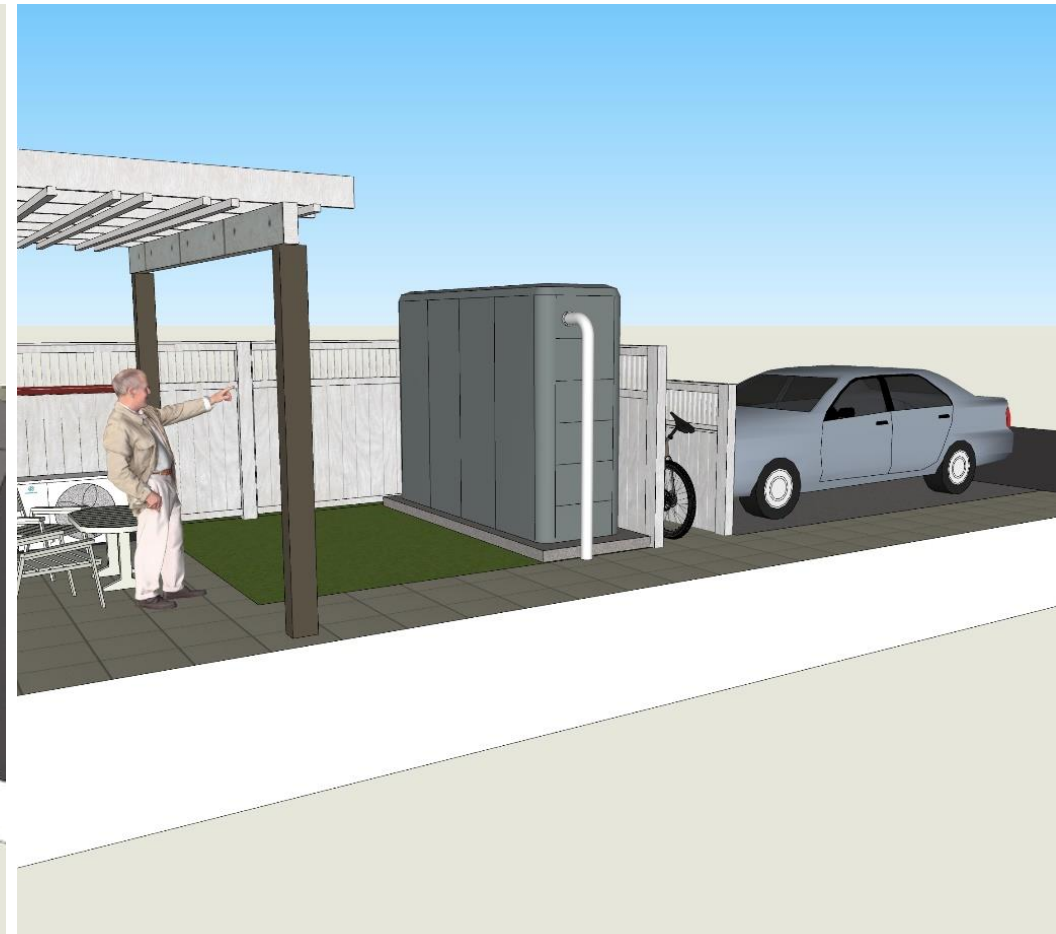


Standard Dimensions for a 25 m Terraced Lot

# ON LOT SMAF DEVICE LIMITATIONS



Services and amenities, living space, parking



Typical Above Ground Rainwater Tank



- **Amenity and liveability**
- **Community engagement**
- **Device sizing & design**
- **Retention quota**
  - **Prioritise groundwater recharge**
  - **Partial fulfilment of criteria**

**DETERMINEDLY  
BETTER  
TOGETHER**





HC 