Improving Public Spaces in Chennai

Pedestrian Facilities and Pedestrianisation

3 September 2013

Mr Nandakumar Executive Engineer Corporation of Chennai





- The Hon'ble Tamil Nadu Chief Minister's vision is to develop Chennai City as a world class city with infrastructure of international standards.
- The Worshipful Mayor and our Principal Secretary / Commissioner of Corporation of Chennai are guiding us to path breaking schemes for infrastructure developments in Chennai City.
- Chennai City is the biggest and important urban agglomeration in Tamil Nadu. This City portrays both historical and modern contemporary Indian culture.
- Now the limits of Corporation of Chennai has increased from 174 Sq.km area sq km to 426 Sq.km. and has around 36,000 number of roads. (Interior roads, slum roads and Bus Route Roads)



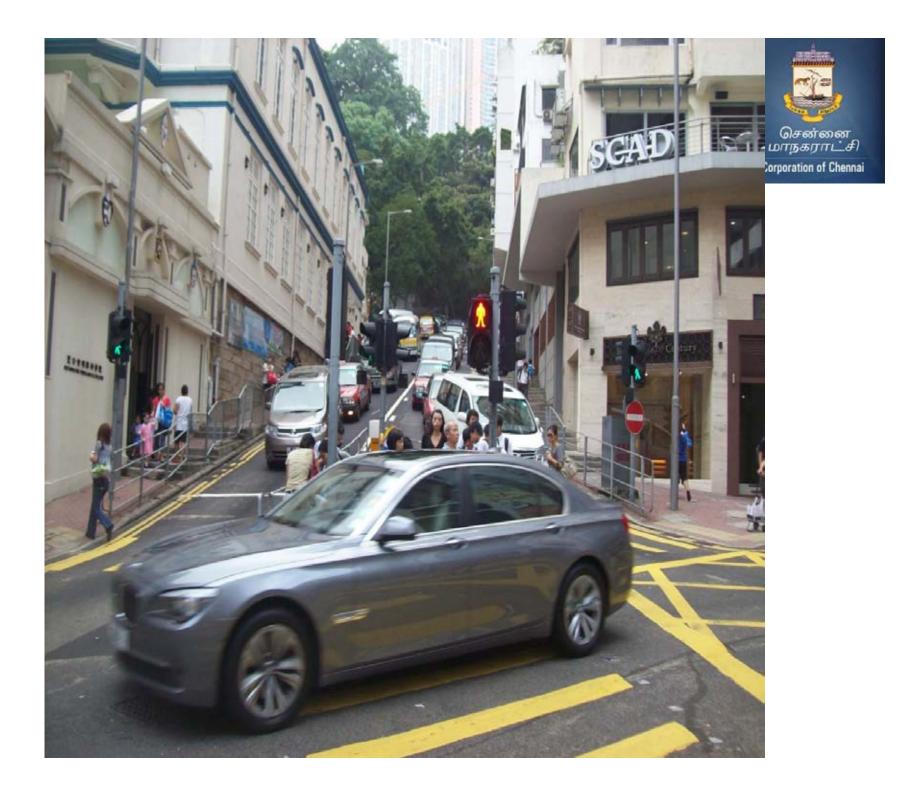
- All the arterial roads / major roads wherein the public transportation operates are being maintained by Bus Route Road (BRR) department of Chennai Corporation.
- Under BRR control we have 448 roads measuring to a length of 358 kms.
- Until now it was a normal practice followed to ensure that the width of the footpaths never exceeds 5m (5 feet) even in 100 feet wide roads.
- Footpaths are not only paramount for pedestrian safety but also ensures smooth traffic.
- Now with increased traffic flow these 5 feet footpath in many roads due to obstruction like BSNL, Electricity boxes and other encroachments forces people are forced to walk on roads leading to accidents.



- Corporation of Chennai has taken up a major step forward to widen footpaths from 1.5m to 3m by reclaiming space from road to make footpaths pedestrian friendly and to regulate traffic.
- Under the grants obtained from Tamil Nadu Road Infrastructure fund (TURIF), Corporation of Chennai has taken up 71 major roads to a length 48.60km at an estimated cost of Rs. 42.5 crores for converting the existing 5 feet footpath to 10 feet footpath with all facilities like street furniture, toilets, etc.
- Initially, Granite kerb with 3 line dressed granite top slab was proposed. Due to shortage of supply and higher cost now it is decided to do the footpath with Granite kerb with Cement concrete top.

The following presented to Govt of Tamil Nadu

To request funding, start project and coordination. Required Components Needed on Chennai Roads









சென்னை மாநகராட்சி Corporation of Chennai







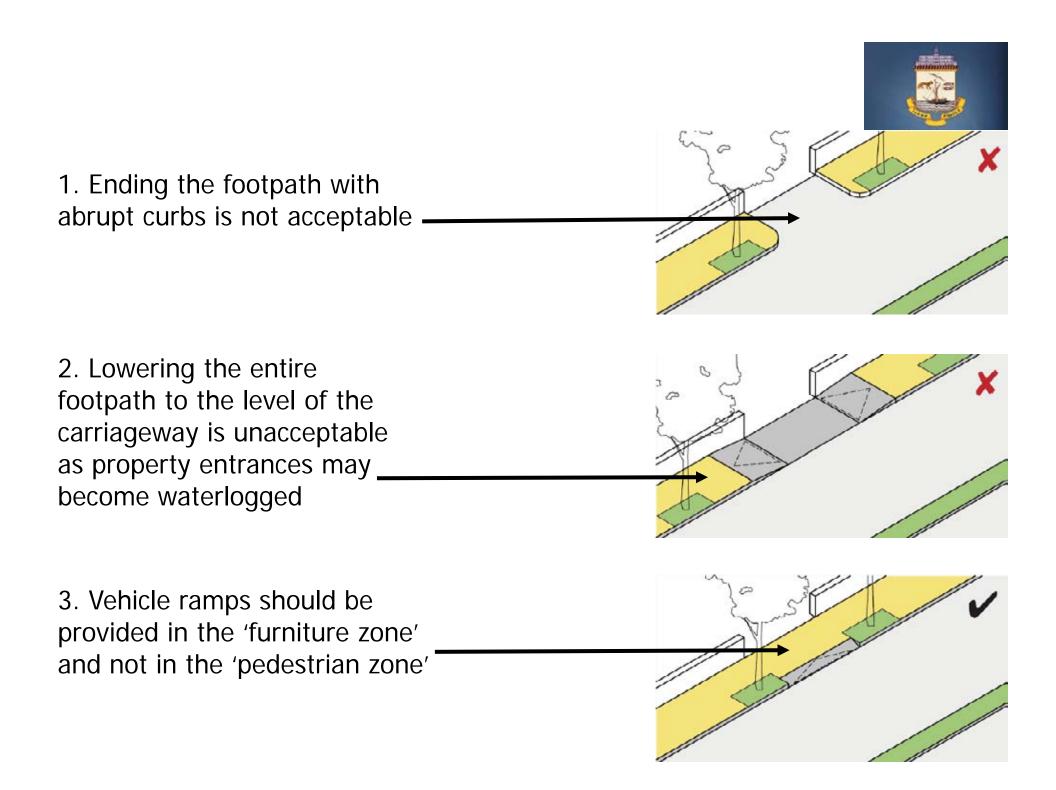


Frontage zone with street-side activities

Pedestrian zone

Furniture Zone







Continuous and unobstructe



Elevation over carriageway (e.g. +150 mm) and adequate cross slope for storm water runoff.

ISENSERT TRANS.

150mm rise

Elevation low enough for pedestrians to step onto and off easily



No breaks /obstructions at property entrances and side streets



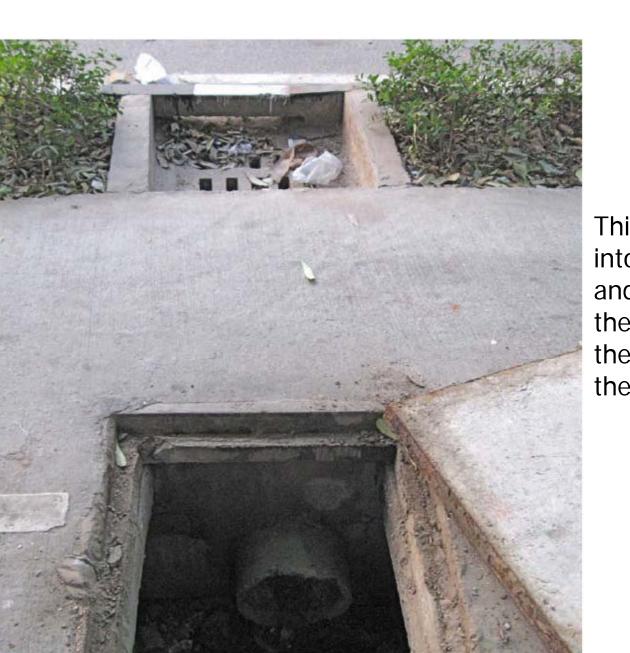


Tritted.

Continuous shade through tree cover

6951 (116) (A) 大阪宇西モー

Surmountable gratings over tree Z pits to increase effective width of footpath





This design lets water fall into a catch pit in the buffer and then into pipes under the footpath. The level of the drain is below that of the footpath.



This design lets water fall into a catch pit through grating in the kerb gutter.

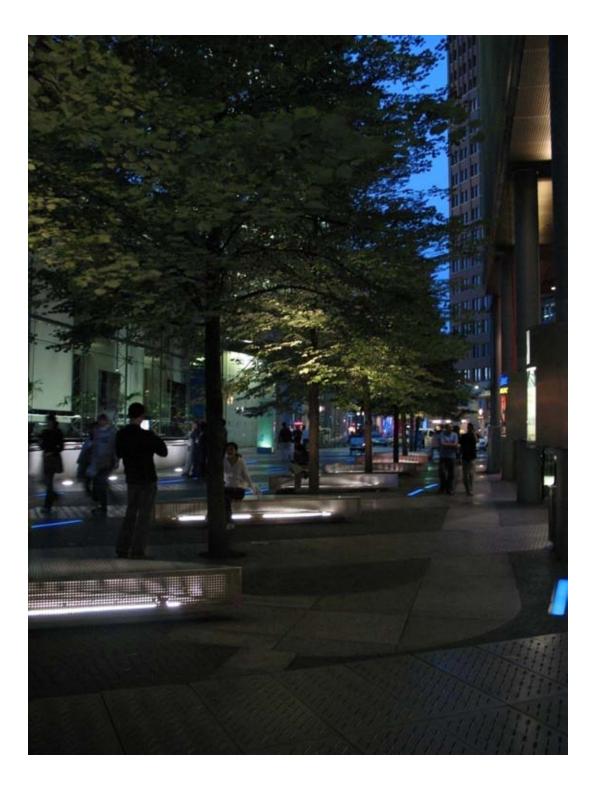
Proper sloping in carriageway design is essential for this to work.







5) Street lighting

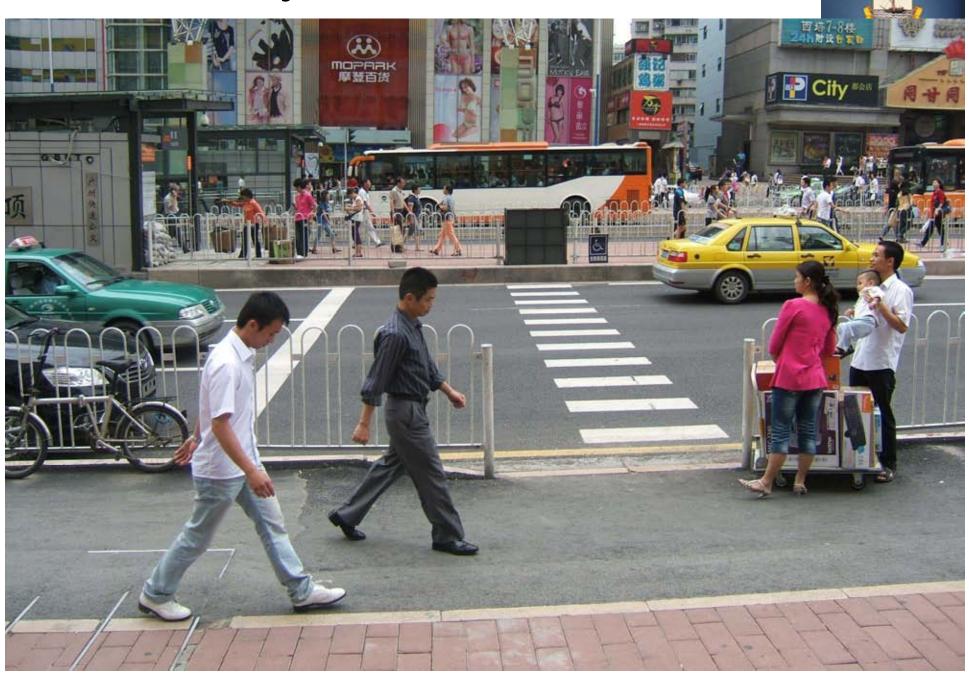


Bollards





Pedestrian Safety barriers



Garbage receptacles





Kiosks







Kiosks

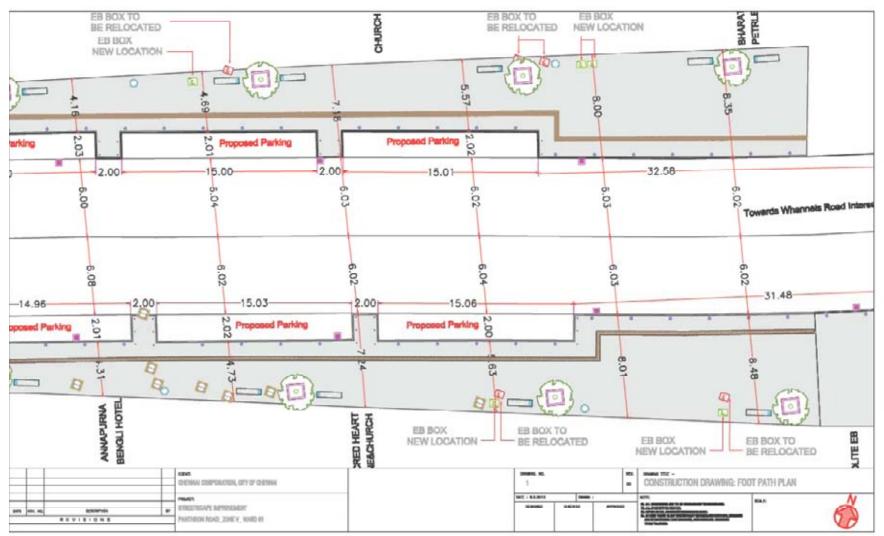


Public toilets













Old Electricity Junction Box





New Junction Box





New Junction Box





Pedestrians now on the Sidewalk - Safer walking experience





ாநகராட்சி ioration of Chennai



Corporation of Chennai is enlisting CREDAI and others to maintain the new roads

MoU already in place and pilots have started

71 Bus Route Roads (BRR) is showing good progress Mayor announced 383 BRR to be upgraded along similar lines



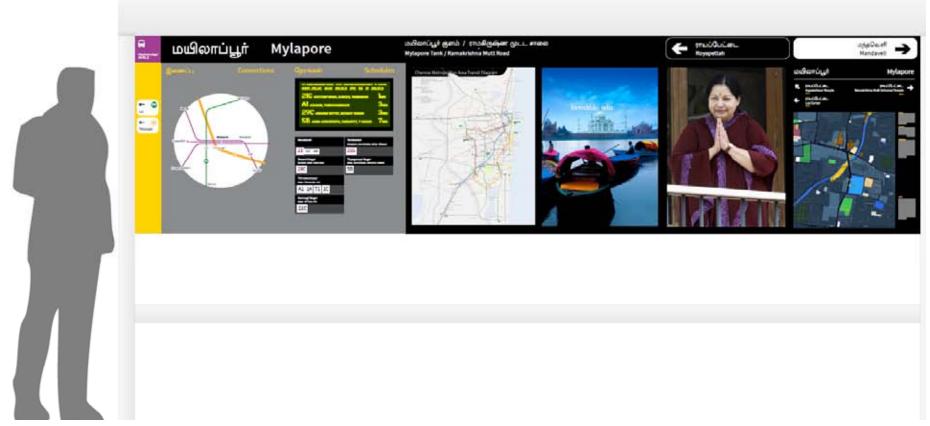
Corporation of Chennai is tendering 750 modern, modular public toilets for start

Construction of 108 bus stops with information systems started

CoC has floated EOI for cycle sharing

Metro Rail very keen on cycle sharing and feeder





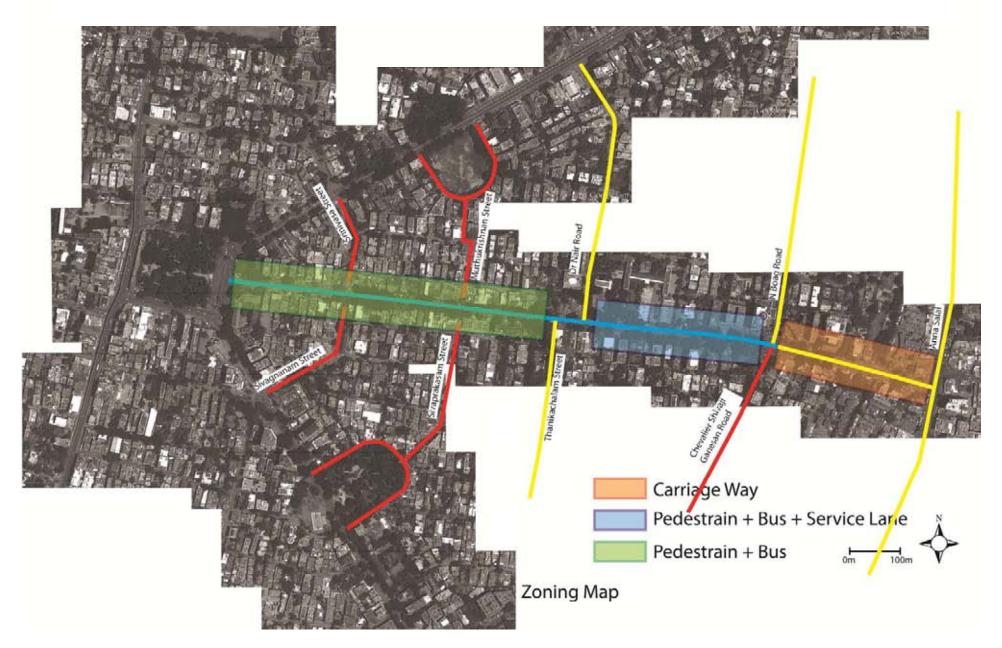
Pedestrianisation Projects

T Nagar and Mylapore





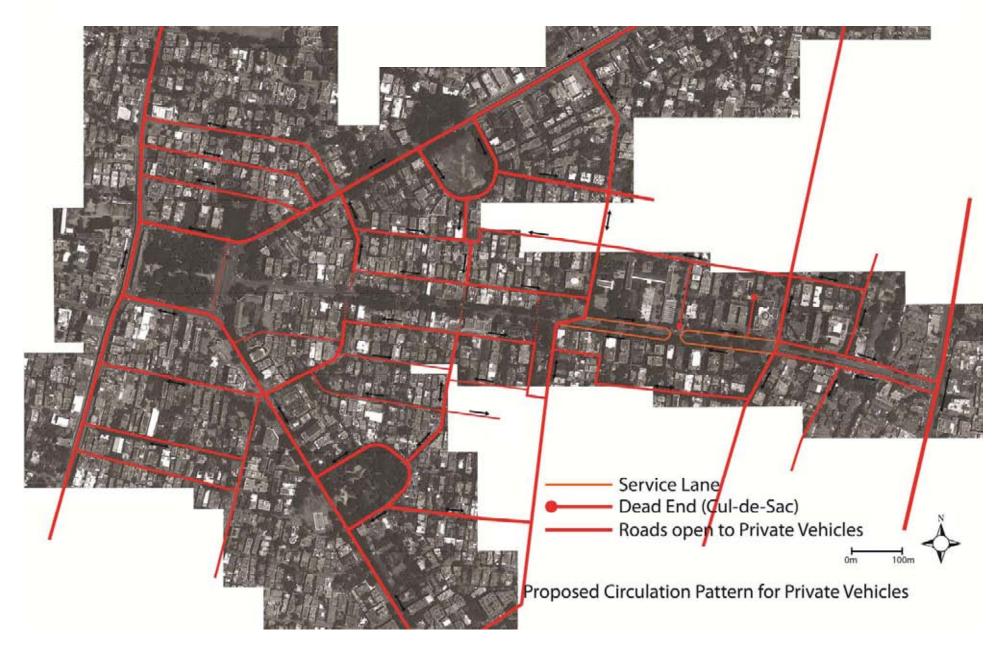
Proposed Changes - Streets for people not machines

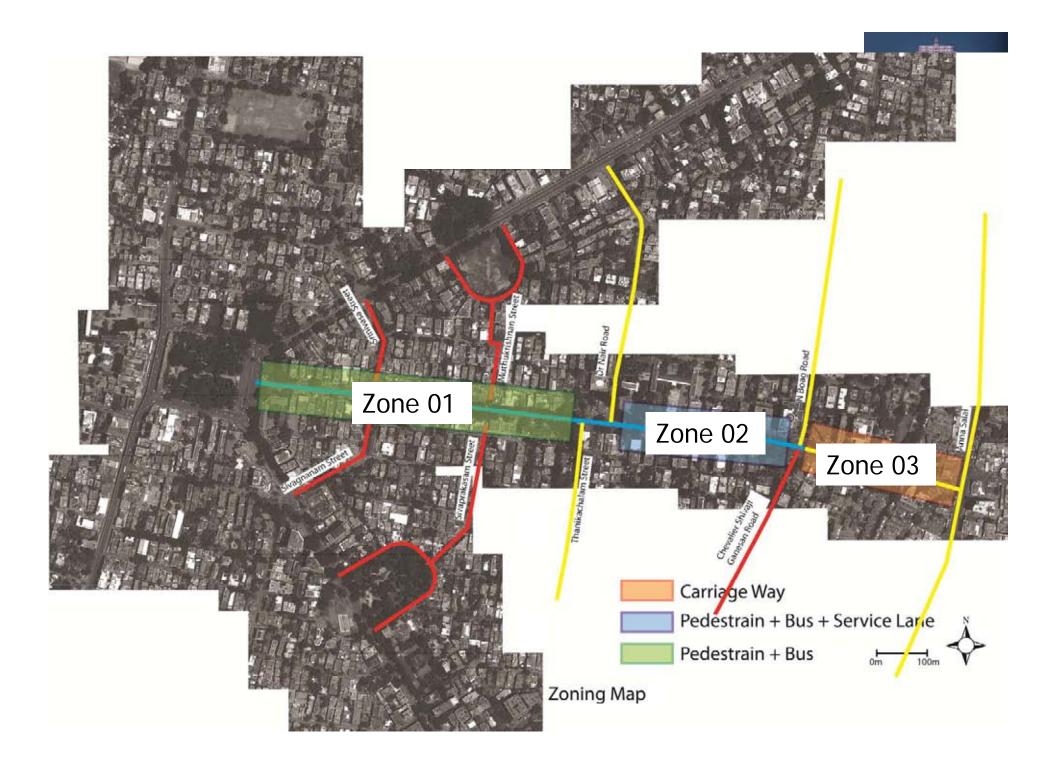






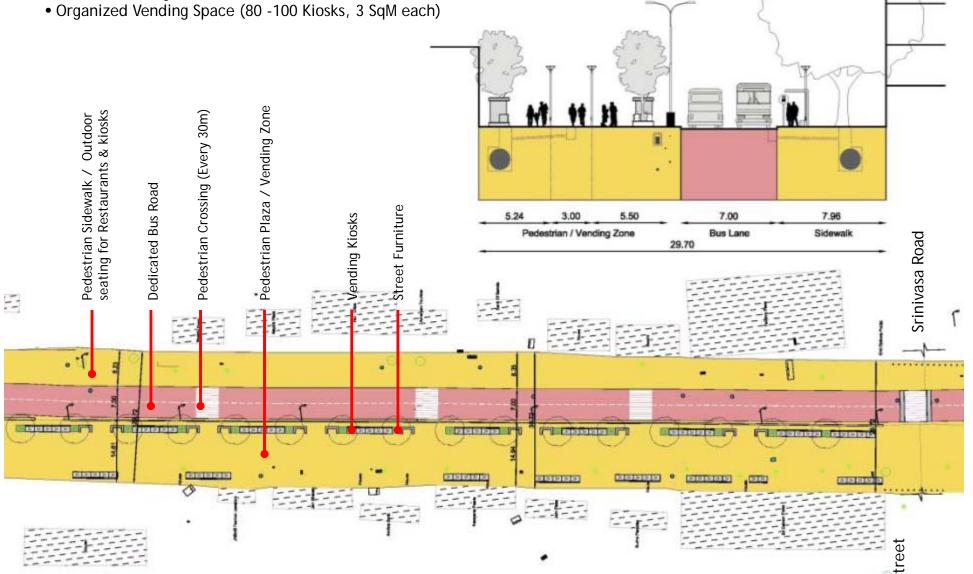
New Traffic Circulation





Zone 01 - Panagal Park to Srinivasa Road (Pedestrian Plaza)

- 3300 SqM of Pedestrian Plaza (230m)
- Dedicated Bus Road
- Outdoor seating facilities

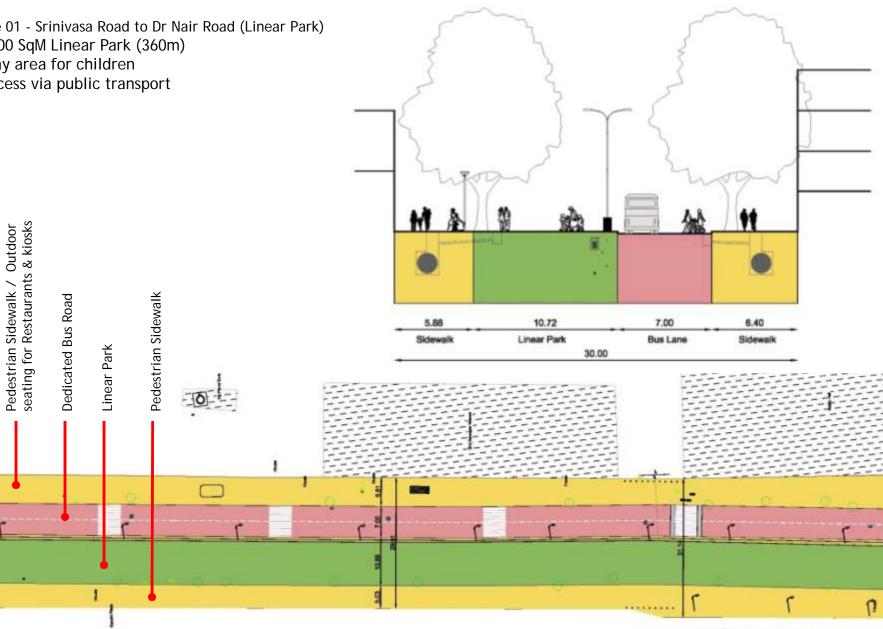


Zone 01 - Srinivasa Road to Dr Nair Road (Linear Park)

- 3600 SqM Linear Park (360m)
- Play area for children

1

• Access via public transport



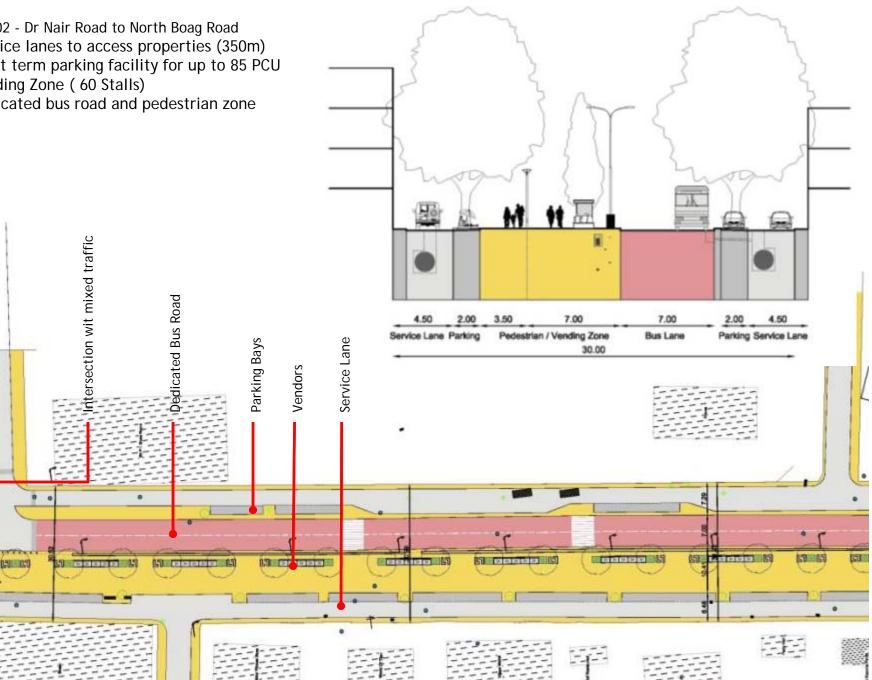
Zone 02 - Dr Nair Road to North Boag Road

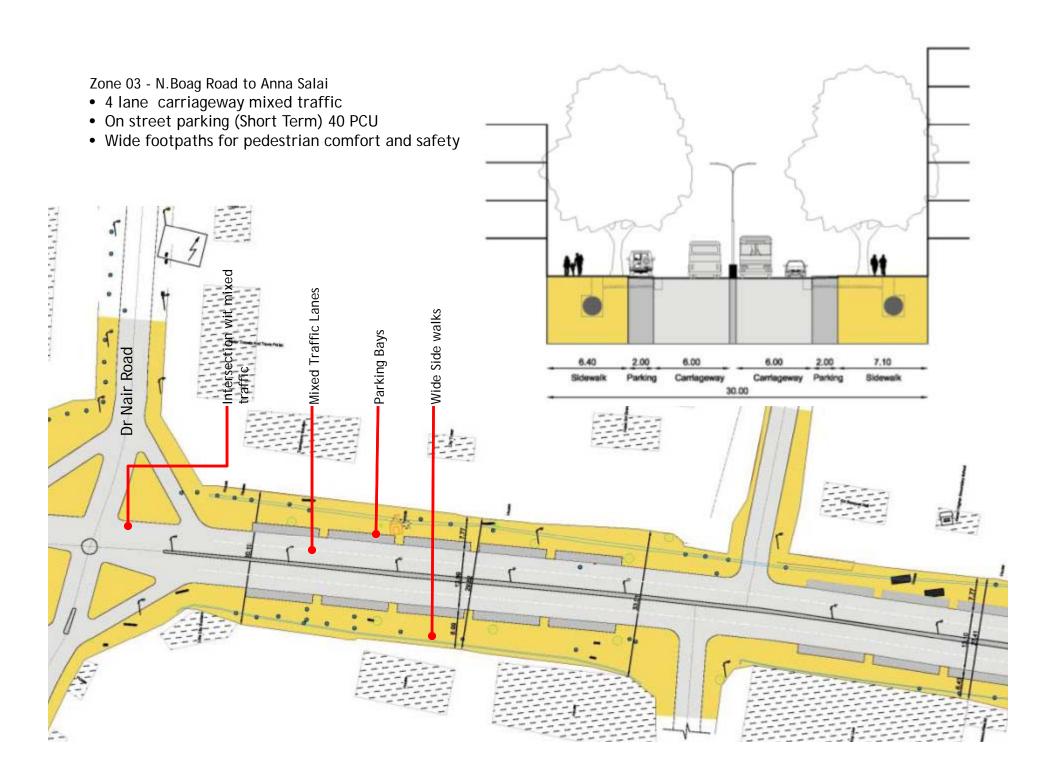
- Service lanes to access properties (350m)
- Short term parking facility for up to 85 PCU
- Vending Zone (60 Stalls)

Dr Nair Road

51 151

• Dedicated bus road and pedestrian zone

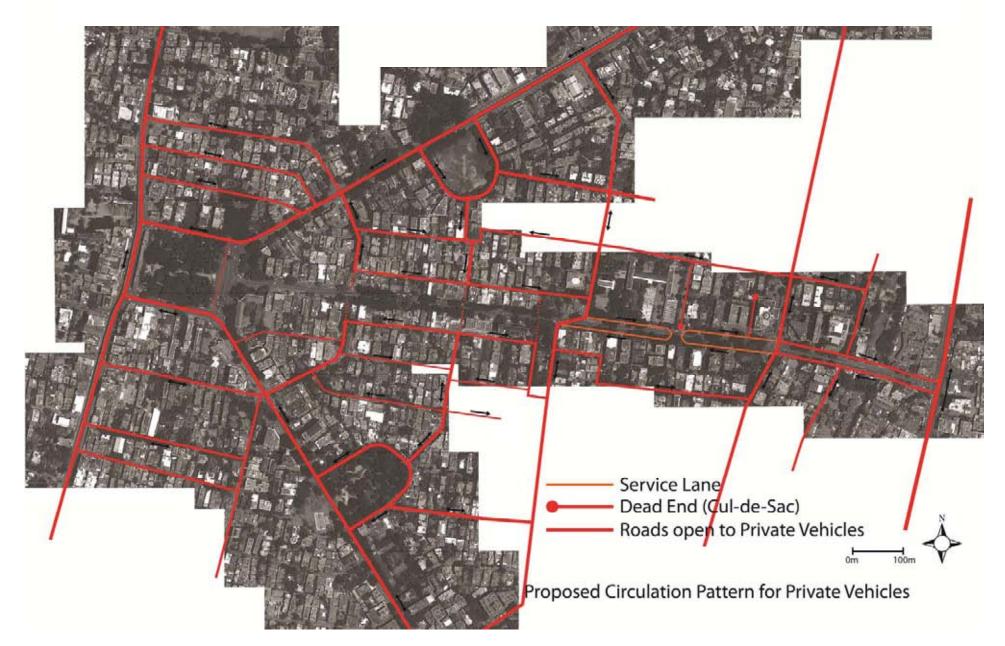


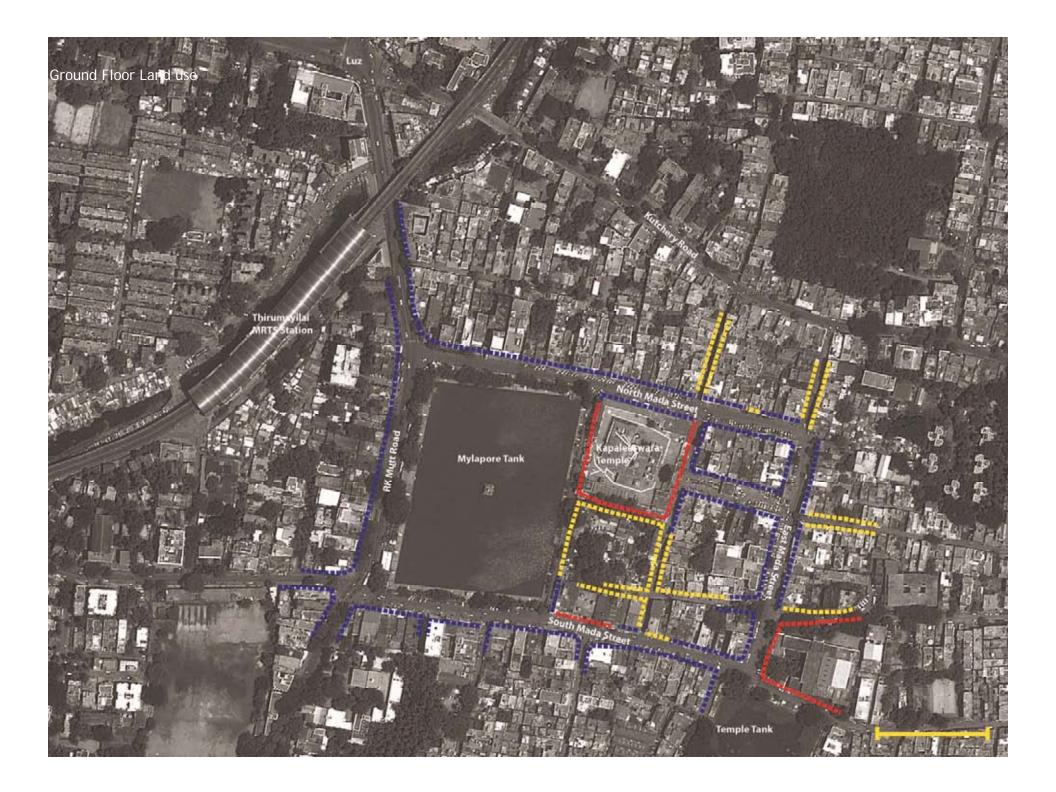






Side Streets





















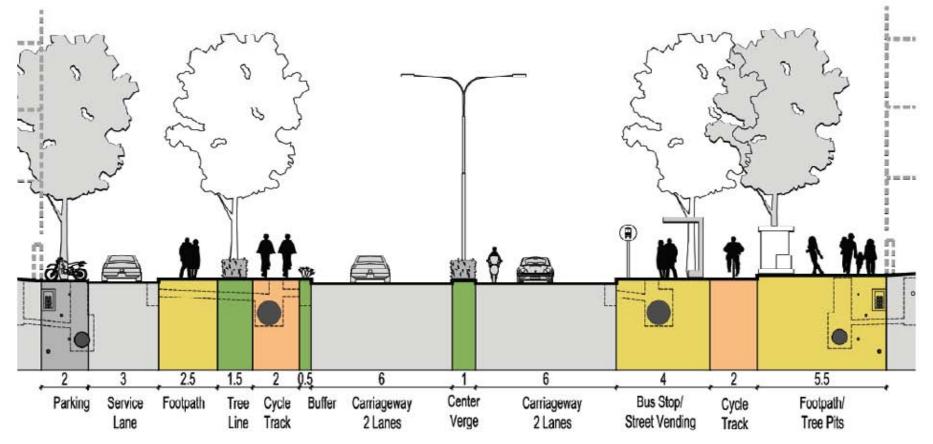


Thank You

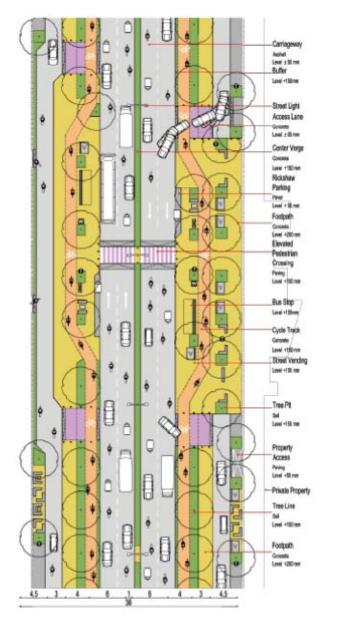


Visualization using Street Design Manual



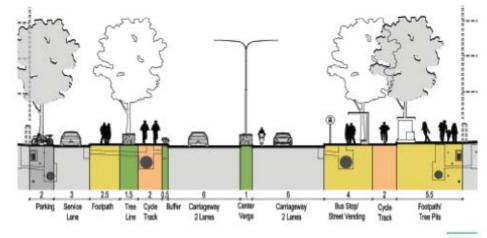




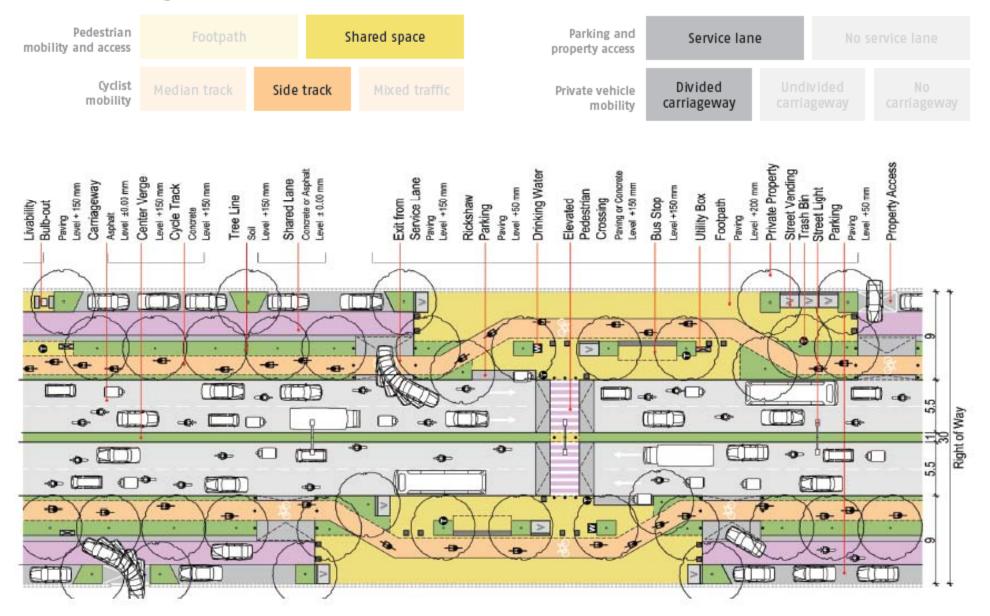


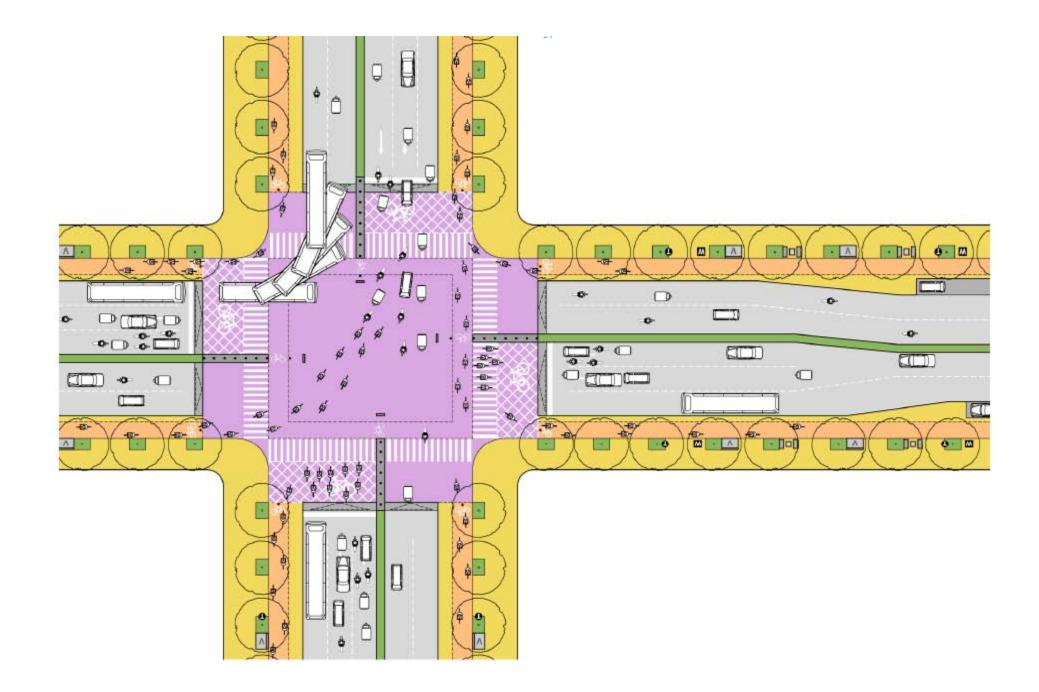


Note Depending on adjacent land uses, the footpath can be placed at the edge of the righof-way. Such an arrangement may be desirable if there active retail storefronts abutting the street (see Section 2.12).











Case example 1

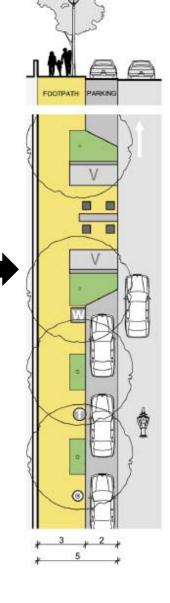
சென்னை மாநகராட்சி Corporation of Chennai

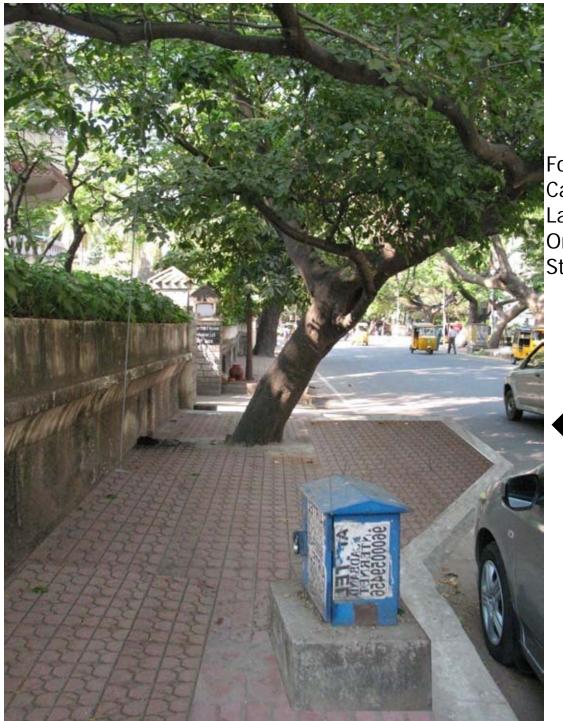
Footpath Carriageway Landscaping On-street parking Street furniture/ amenities



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Design template from the manual

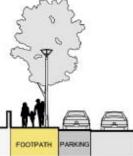


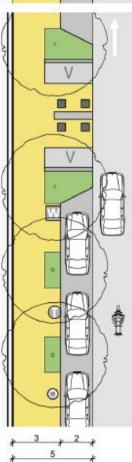


Footpath Carriageway Landscaping On-street parking Street furniture/ amenities

Proposal as per template









Annanagar- Shanthi Colony Road





Annanagar- Shanthi Colony Road





Annanagar 2nd Avenue





Annanagar 2nd Avenue





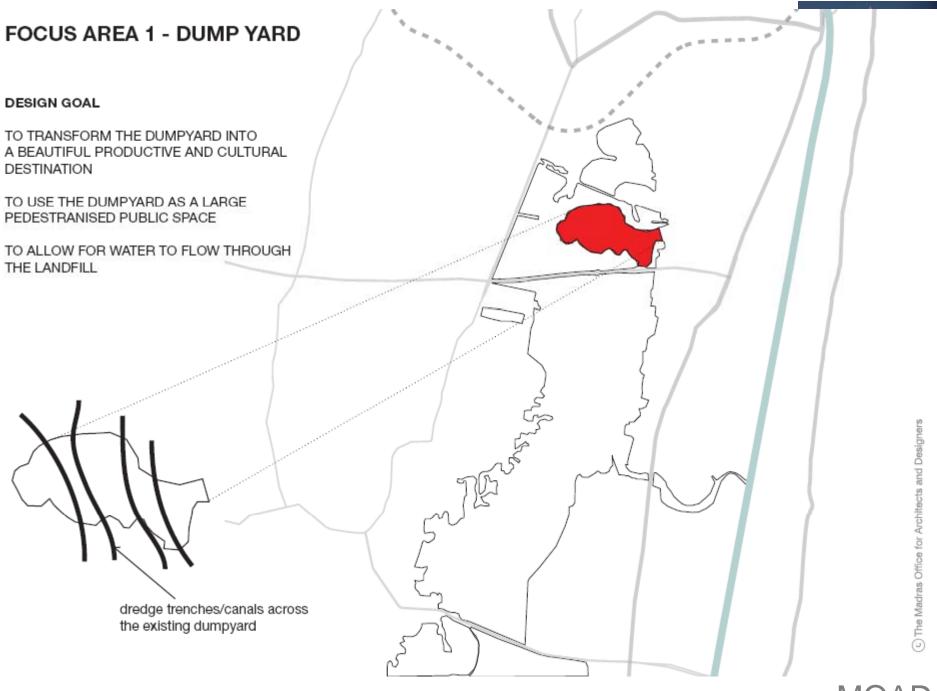


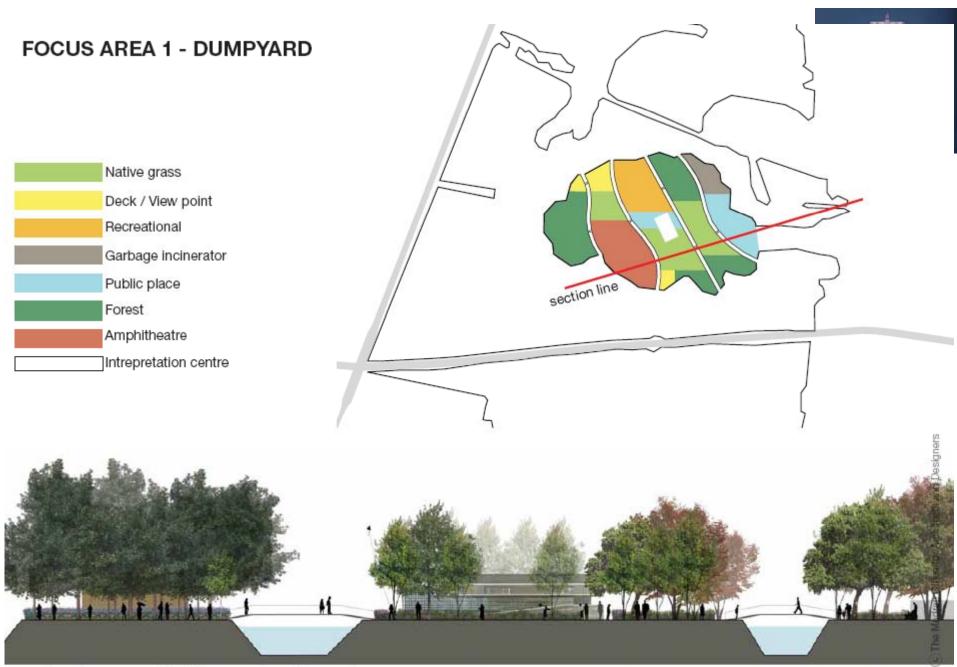
Taylors Road



Taylors Road

Pallikaranai Marsh and Wetland Projects





section along proposed public space above dumpyard

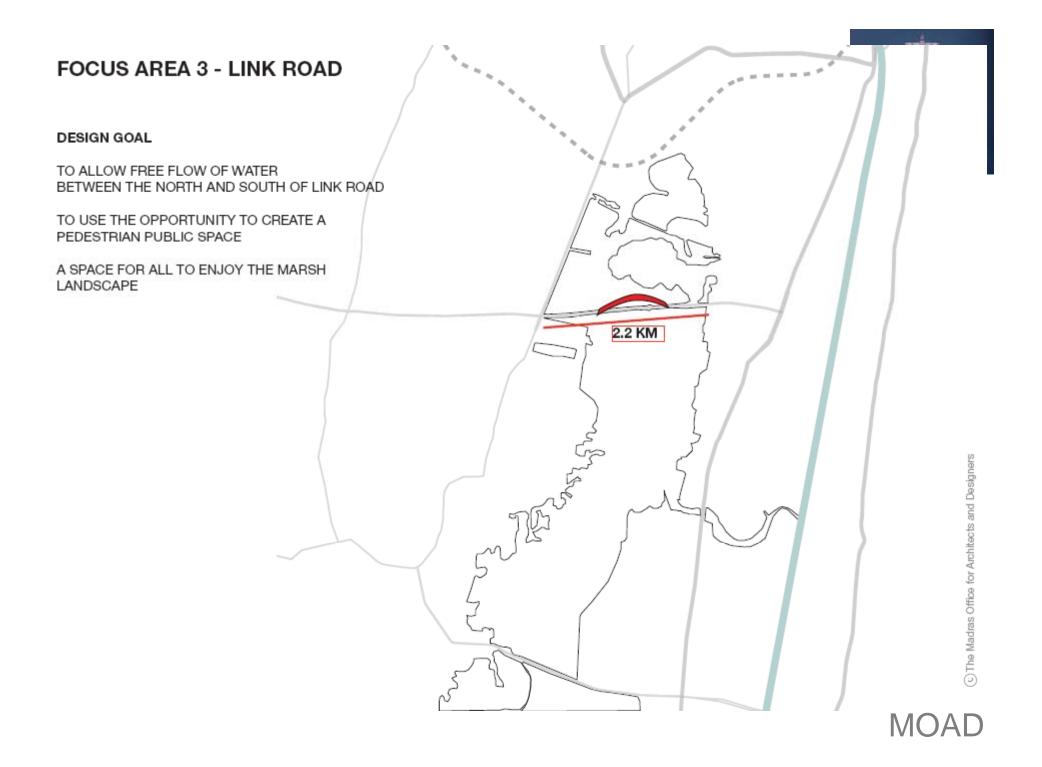
FOCUS AREA 1 - DUMPYARD

Dumpyard transformed to a landscape of bridges and canal intersperced with public spaces

A unique landscape in chennai







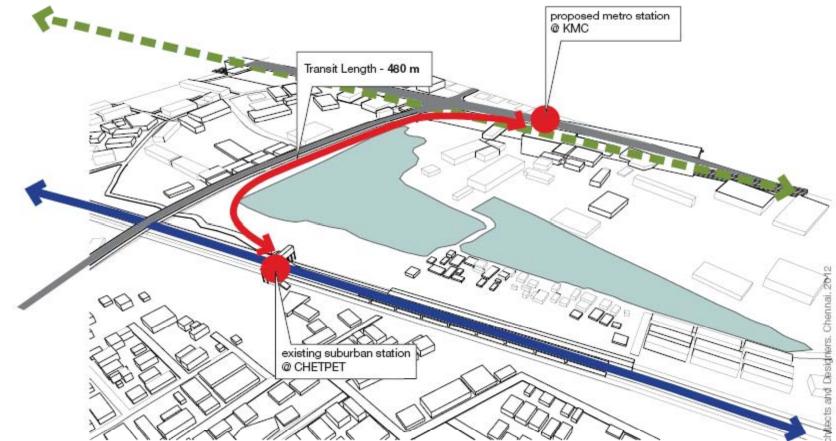
FOCUS AREA 3

Pedestrian Bridge - Public space - Bird watch

BEFORE



TRANSIT AS PUBLIC SPACE



AFTER





What Corporation and other agencies are doing

Metro Rail, Highways, etc.



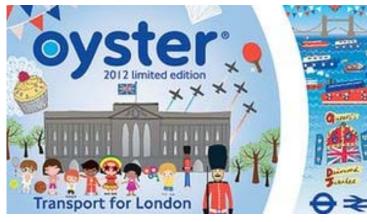
VISION 2023: Public Transport in Chenna

GOAL

- » 70% by Public Transport (of all motorized trips)
- » A healthier city with low pollution
- » A safer city with no traffic related deaths
- » A happier city



Integration: Smart Card Common Ticketin



LONDON

HONG KONG

SAO PAULO

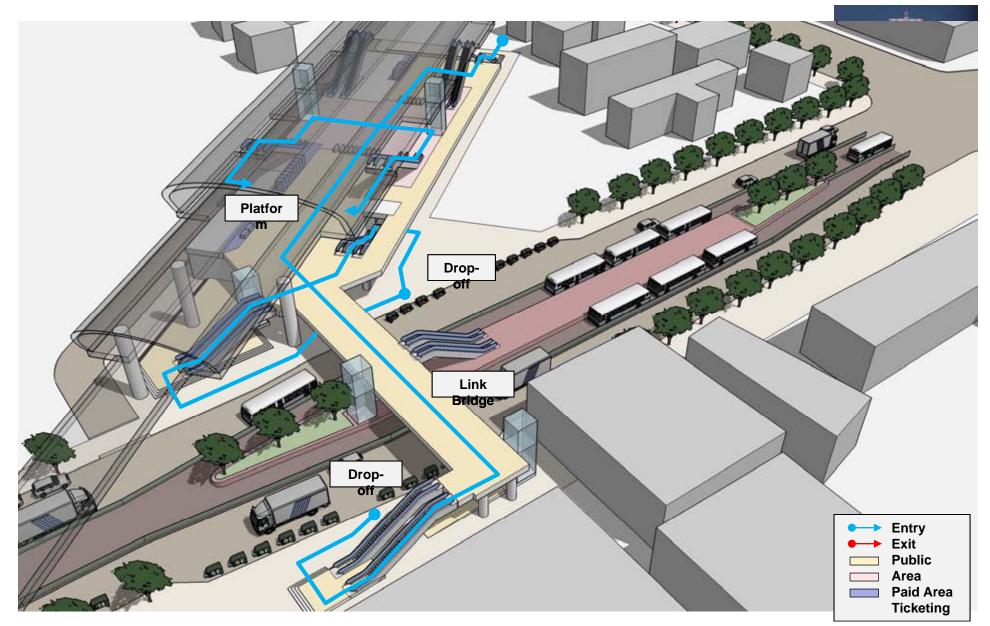


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Example – Mono/Metro & BRTS connectivity



Well design auto/share auto connectivity. Safe pedestrian facilities





Street furniture - toilets, seating area, trees