

Road & Recreation Asset Management Section

Point Score System & Program for Kerb & Gutter Construction

2005/2006

Kerb & Gutter Construction

Objective: to improve on street drainage while improving the amenity & appearance of the street.

Strategy: to upgrade sub-standard urban street drainage

- Deliver visual amenity free of nuisance drainage
- The construction of kerb & gutter is generally the first stage of an urban drainage system in that it is usually required to collect stormwater
- Direct the stormwater into the urban drainage system.
- Projects that require the construction of significant underground drainage will be evaluated under the Urban Drainage Program.

Purpose

To provide a logical method of prioritising the large number of projects in the program.

Benefits

- Delivers a logical, transparent and equitable system of allocating funds.
- Allows forward planning and time to carry out investigation and design.
- Provides stakeholders with knowledge of when projects will be constructed.

Methodology

- **Criteria:** set assessment criteria that are relevant and can be easily scored.
- **Weighting Factor:** assign a weighting factor to each element of criteria to reflect its importance (E.g. properties affected have a higher weighting than maintenance benefit).
- **Points Score:** allocate an easily measurable score for each criteria for each project (E.g. drainage available = 5 points and no drainage available = 1 point).
- **Total Score:** multiply *weighting factor* x *points score* and sum all these products for each project. The total score prioritises/ranks the project in the program.

Implementation Strategy

- Compile a comprehensive list of projects and calculate the total point score for each.
- List all projects in priority order, as per their points score, and prepare a preliminary estimate for each.
- Schedule works according to expected annual budgets.
- Lock in Year 1 as the current construction program.
- Lock in Year 2 as the current design program.
- Conduct an annual rolling review with update. Roll forward Year 3 to become Year 2 and so forth.

Urban Street Construction

The 9 Weighting Factors

1. **Properties Affected:** weighting = 30
(points score 5 or more = 5 points, 1 to 4 = 3 points, none = 1 point)
2. **% Development:** weighting = 25
(points score: 100%/CDB = 5 point, 50% = 3 point, 10% = 1 point)
3. **Degree of Difficulty:** weighting = 20
(points score: Easy = 5 points, Hard = 3 points, Rock/Problem driveways = 1 point)
4. **Environment:** weighting = 15
(points score: Erosion/Siltation = 5 points, Odour = 3 points, Nil = 1 point)
5. **Aesthetics:** weighting = 15
(points score: yes = 5, no = 1)
6. **Drainage Available:** weighting = 10
(points score: yes = 5, no = 1)
7. **Missing Link:** weighting = 10
(points score yes = 5, no = 1)
8. **Safety:** weighting = 10
(points score: improvement = 5, no improvement = 1)
9. **Maintenance Benefit:** weighting = 5
(points score: yes = 5, no = 1)

Summary and maximum possible point score

Criteria	Affected	% Dev	Difficulty	Enviro	Aesthetics	Drainage Avail	Missing Link	Safety	Maint Benefit	Total
Weight	30	25	20	15	15	10	10	10	5	Max
Max Score	5	5	5	5	5	5	5	5	5	Score
Product	150	125	100	75	75	50	50	50	25	700

Kerb & Gutter Construction Program

2005/06