



CP04

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Section 94 Plan

No. 4 – Tweed Road Contribution Plan

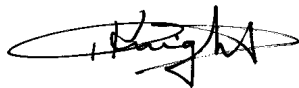
Version **5.26**
~~December 2009~~ November 2011

CERTIFICATION:

This ***Tweed Road Contribution Plan (CP No 4 - Version 5.26)*** was adopted by Tweed Shire Council on ~~15-December-2009xxxx~~ and became effective on ~~23-December-2009xxxx~~.

Pursuant to Clauses 31 and 32 of the Environmental Planning and Assessment Regulation 2000, the following contribution plans are repealed by the approval of this Tweed Road Contribution Plan (being a subsequent plan):

- Tweed Road Contribution Plan (CP No 4 Version 4.1)
- Tweed Road Contribution Plan (CP No 4 Version 4.2)
- Tweed Road Contribution Plan (CP No 4 Version 4.3)
- Tweed Road Contribution Plan (CP No 4 Version 4.4)
- Tweed Road Contribution Plan (CP No 4 Version 4.5)
- Tweed Road Contribution Plan (CP No 4 Version 4.6)
- Tweed Road Contribution Plan (CP No 4 Version 4.8)
- Tweed Road Contribution Plan (CP No 4 Version 4.9)
- Tweed Road Contribution Plan (CP No 4 Version 5)
- Tweed Road Contribution Plan (CP No 4 Version 5.1)
- Tweed Road Contribution Plan (CP No 4 Version 5.2)



Director Engineering & Operations



General Manager

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1.0 PART A – SUMMARY SCHEDULES

1.1 Summary schedule – contribution rates

As in previous versions of this s.94 Plan, the proposed levies will comprise a Standard Contribution, plus a Local Area Contribution (if applicable). Local Area Contributions will be levied in 4–2 ‘local areas’ of the Shire, so as to recover the full cost of selected road infrastructure projects required to specifically serve these areas. The Standard Contributions, which vary with locality across the Shire, will partially fund the balance of the road infrastructure works program.

This Plan proposes developer contributions based on land use, calculated in accordance with the traffic generating principles in Section 7.3.6. The contributions payable by a typical new household would be as follows:

Table ES.2–Table 1.1 TRCP Household Contributions

Sector	Locality	Total Trip End Contribution inc Admin			Household Contribution (6.5 trip ends) inc Admin		
		Version 5.2		V 6	Version 5 (5.2)		V 6
		Base Rate	Adjusted for IPD ⁽²⁾	Base Rate	Base Rate	Adjusted for IPD ⁽²⁾	Base Rate
1	Tweed Heads	\$596	\$656	\$782	\$3,877	\$4,264	\$5,085
2	Tweed Heads South	\$851	\$936	\$1,205	\$5,535	\$6,084	\$7,835
3	Cobaki	\$908	\$999	\$1,104	\$5,904	\$6,494	\$7,173
4	Bilambil Heights ⁽⁺⁾	\$1,662	\$1,829	\$2,227	\$10,803	\$11,889	\$14,476
5	Terranora	\$1,388	\$1,527	\$1,867	\$9,023	\$9,926	\$12,135
	LAC1: 'Area E'	\$1,891	\$2,081	2,339	\$12,292	\$13,527	15,206
6	Kingscliff	\$782	\$861	\$1,068	\$5,085	\$5,597	\$6,941
7	Duranbah/Cabarita	\$868	\$955	\$1,131	\$5,644	\$6,208	\$7,351
	LAC2: Kings Forest Development	\$1,228	\$1,351	\$1,491	\$7,985	\$8,782	\$9,692
	LAC4: Casuarina	\$1,012	\$1,114	\$1,274	\$6,579	\$7,241	\$8,279
8	Pottsville ⁽⁺⁾	\$1,022	\$1,125	\$1,279	\$6,647	\$7,313	\$8,313
	LAC3: Keala-Beach/Seabreeze ⁽⁺⁾	\$1,105	\$1,216	\$1,362	\$7,182	\$7,904	\$8,852
9	Murwillumbah	\$1,060	\$1,166	\$1,311	\$6,893	\$7,579	\$8,524
10	Rural Inner East	\$1,455	\$1,601	\$1,798	\$9,459	\$10,407	\$11,684
11	Burringbar	\$1,021	\$1,124	\$1,245	\$6,634	\$7,306	\$8,094
12a	Rural Inner North	\$2,143	\$2,358	\$2,662	\$13,930	\$15,327	\$17,301
12b	Rural Inner West	\$1,874	\$2,062	\$2,230	\$12,183	\$13,403	\$14,496
13	Rural Outer	\$2,150	\$2,366	\$2,525	\$13,978	\$15,379	\$16,414

Sector	Locality	Total Trip End Contribution inc Admin		Household Contribution (6.5 trip ends) inc Admin	
		Version 6		Version 6	
		Base Rate		Base Rate	
1	Tweed Heads	\$815		\$5,299	

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Sector	Locality	<u>Total Trip End Contribution inc Admin</u>	<u>Household Contribution (6.5 trip ends) inc Admin</u>
		Version 6	Version 6
		Base Rate	Base Rate
2	Tweed Heads South	<u>\$1,318</u>	<u>\$8,567</u>
3	Cobaki	<u>\$1,377</u>	<u>\$8,952</u>
4	Bilambil Heights	<u>\$2,836</u>	<u>\$18,432</u>
5	Terranora	<u>\$1,988</u>	<u>\$12,924</u>
6	Kingscliff	<u>\$1,137</u>	<u>\$7,387</u>
7	Duranbah/Cabarita	<u>\$1,145</u>	<u>\$7,440</u>
	LAC4: Casuarina	<u>\$1,313</u>	<u>\$8,531</u>
8	Pottsville	<u>\$1,284</u>	<u>\$8,345</u>
	LAC3: Koala Beach/Seabreeze	<u>\$1,352</u>	<u>\$8,791</u>
9	Murwillumbah	<u>\$1,317</u>	<u>\$8,562</u>
10	Rural - Inner East	<u>\$1,807</u>	<u>\$11,745</u>
11	Burringbar	<u>\$1,252</u>	<u>\$8,139</u>
12a	Rural - Inner North	<u>\$2,928</u>	<u>\$19,035</u>
12b	Rural - Inner West	<u>\$2,239</u>	<u>\$14,556</u>
13	Rural - Outer	<u>\$2,534</u>	<u>\$16,470</u>

Notes

(1) — Subject to an **adjustment factor** as specified in Schedule 6.

(2) — Rates have been adjusted in line with the IPD on 1 July 2009 as specified in Section 9.2 of this contribution plan.

A contribution may also be required in relation to activities that generate heavy haulage (extractive materials) traffic (see Section 3.5.57.2). Heavy haulage has a source and destination, to avoid double dipping, the charge will be made on destination development.

1.2 Summary schedule - works program

<u>Sector</u>	<u>Locality</u>	<u>Net Sector Works Program - Total Cost to Council*</u>
<u>1</u>	<u>Tweed Heads</u>	<u>\$29,052,126</u>
<u>2</u>	<u>Tweed Heads South</u>	<u>\$175,803,319</u>
<u>3</u>	<u>Cobaki</u>	<u>\$82,425,728</u>
<u>4</u>	<u>Bilambil Heights</u>	<u>\$68,544,251</u>
<u>5</u>	<u>Terranora</u>	<u>\$6,273,278</u>
<u>6</u>	<u>Kingscliff</u>	<u>\$113,441,245</u>
<u>7</u>	<u>Duranbah / Cabarita</u>	<u>\$28,271,800</u>
<u>LAC4</u>	<u>Casuarina</u>	<u>\$1,548,800</u>
<u>8</u>	<u>Pottsville</u>	<u>\$12,468,341</u>
<u>LAC3</u>	<u>Koala Beach / Seabreeze</u>	<u>\$678,000</u>

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<u>Sector</u>	<u>Locality</u>	<u>Net Sector Works Program - Total Cost to Council*</u>
<u>9</u>	<u>Murwillumbah</u>	<u>\$23,949,946</u>
<u>10</u>	<u>Rural - Inner East / Kielvale</u>	<u>\$18,719,436</u>
<u>12a & 12b</u>	<u>Rural - Inner North and West</u>	<u>\$26,880,003</u>
<u>TOTAL</u>		<u>\$588,066,273</u>

*Excludes expected payments from other contributors, including developers and the RTA.

[Refer to Schedule 5 for detailed works program, including specific projects and their costs.](#)

1.3 Published indices at time of adoption

<u>Index</u>	<u>Rate</u>	<u>Index Date</u>	<u>Published</u>
<u>IPD (Engineering Construction)</u>	<u>100.49</u>	<u>30/06/2011</u>	<u>19/10/2011</u>
<u>TSC Land Index</u>	<u>195.12</u>	<u>June 2009</u>	<u>2009/2010 Tweed Shire Council Revenue Policy</u>

2.0 PART B - ADMINISTRATION

2.1 Name of plan

This development contributions plan is called S94 Plan No 4 – Tweed Road Contribution Plan Version 6 (CP-4).

2.2 Land to which this plan applies

This Plan applies to land within Tweed Shire as shown on the map(s) in Schedule 3.

2.3 The purpose of the s94 plan

This Contributions Plan enables Tweed Shire Council to levy s.94 developer contributions for the provision of additional road capacity to service increased traffic loading as a result of urban growth and/or development demands. It also permits Council to recoup past expenditures in the road network made in anticipation of development throughout the entire Tweed Shire.

The purpose of the Development Contributions Plan is to:

- (a) to ensure that an adequate level of public road infrastructure is provided throughout the Tweed Local Government Area;
- (b) provide an administrative framework under which the Tweed Road Development Strategy, the Lower Tweed and Pacific Highway Traffic Masterplan and other specific strategies specific public facilities strategies may be implemented and coordinated;
- (c) ensure that adequate public distributor road facilities are provided for as part of any new development;
- (d) to authorise the council to impose conditions under section 94 (s94) of the Environmental Planning and Assessment Act 1979 when granting consent to development on land to which this plan applies;
- (e) provide a comprehensive strategy for the assessment, collection, expenditure accounting and review of development contributions on an equitable basis;
- (f) ensure that the existing community is not burdened by the provision of public distributor road infrastructure amenities and public services required as a result of future development;
- (g) enable the council to be both publicly and financially accountable in its assessment and administration of the development contributions plan;-
- (b)(h) to update Contribution Plan No 4 (Version 5.2) as a result of a review of road infrastructure requirements and their associated costs, and also to amend the Plan in respect of the boundaries used to define the sectors by which the Standard Contributions are determined. (NB. The underlying principles and methods of allocating the cost of the road infrastructure program to future development have not changed from those used in versions 4.0 to 5.24.9 of the Plan).

2.4 Commencement of the plan

This development contributions plan has been prepared pursuant to the provisions of s94 of the EP&A Act and Part 4 of the EP&A Regulation and takes effect from the date on which public notice was published, pursuant to clause 31(4) of the EP&A Regulation.

2.5 Relationship to other council plans

This plan is part of the package of Contributions Plans prepared for a variety of key community infrastructure which are/is required to be provided and/or augmented by, or on behalf of, Tweed Shire Council to meet the needs of new development within the Tweed Shire Local Government Area.

The development contributions plan supplements the provisions of the Tweed Local Environmental Plan 2000 and any amendment or local environmental plan which it may supersede.

The traffic studies, which have shaped this Plan include the:-

- *Tweed Road Development Strategy (1997)*
- *Banora Point and Tweed Road Development Strategy Review (2004)*
- *Murwillumbah Distributor Road Network Study (2005), and*
- *Lower Tweed and Pacific Highway Traffic Masterplan (2006)*

2.5.1 Tweed Road Development Strategy (1997)

The *Tweed Road Development Strategy (TRDS)* predicts traffic growth based on current and planned land use within the Shire, in order to define Council's long-term road improvement strategy. The TRDS was last updated in 2007. The TRDS provides the basis for the works program within CP4.

2.5.2 Lower Tweed and Pacific Highway Traffic Masterplan (2006)

The *Lower Tweed and Pacific Highway Traffic Masterplan* was produced on behalf of Tweed Shire Council and the NSW Roads and Traffic Authority (RTA)xxx to provide an integrated masterplan for the Pacific Highway between Chinderah and the Tugun Bypass (QLD) in order to effectively address the future traffic demands on the Tweed road network.

The *Lower Tweed and Pacific Highway Traffic Master-plan* considers the long term needs of the region in terms of both highway and local network functionality. In particular, the study focuses upon the form, functionality and timing of the Banora Point upgrade and Kirkwood Road interchange, and the influence of the Tugun Bypass.

2.5.3 The Tweed Community Strategic Plan (2011/2021)the Tweed 4/24 Strategic Plan 2004-2024 (2004)

The *Tweed Community Strategic Plan (TCSP)* provides a 10 year vision for Council, in accordance with the NSW Government's integrated planning and reporting framework, to ensure local government operations and strategic planning are meeting the needs of the community.

This plan creates a framework to implement Council's four-year Delivery Program and annual Operational Plan, which will align the community's aspirations with the necessary strategy

development, planning and resourcing required to achieve the long term vision and deliver the outcomes.

The TCSP has been informed by:

- Extensive community engagement
- The former 20-year vision Tweed Futures 04/24 (which was informed by the Tweed 2000+ Strategic Plan).
- All of Council's current major strategies (including the Tweed Road Contribution Plan).
- The NSW Department of Planning's 'Far North Coast Regional Strategy' (2006).

Within the TCSP theme of "Supporting Community Life", a key objective is the provision of an integrated transport system that services local and regional needs. The strategy aims to provide a safe and efficient network of arterial roads connecting neighbourhoods to town centres, employment, shopping, health, commercial and education facilities, as well as promoting accessible and cost effective public transport.

2.5.4 Local Growth Management Strategy

The Far North Coast Regional Strategy (2006) requires Councils to prepare a Local Growth Management Strategy prior to rezoning further land for urban, commercial and industrial uses. The Local Growth Management Strategy comprises three adopted documents, which have been considered in the preparation of CP4:

- Tweed Shire Employment Lands Strategy (2009)
- Tweed Shire Urban Lands Strategy (2009)
- Tweed Retail Strategy (2005)

The Tweed 4/24 Strategic Plan updates the previous Tweed 2000+ Strategic Plan, which had been in effect since December 1996. This strategic plan is the over-arching document of all of the Shire's planning instruments. It sets out broad directions and objectives, and proposes a package of more detailed plans, policies and actions that will be progressively implemented and updated in response to changing needs over the next 2 decades.

Some key elements of the strategy, relevant to the Shire's road infrastructure needs and hence this Plan, are:

- a Rural Settlement Strategy to guide rural subdivision and expansion of villages
- a new Land Use Structure Plan, providing detailed proposals for urban and rural land use.
- a new and broader Tweed Infrastructure Program, which will cover all major items of physical, social and environmental infrastructure, including State and Federal Government projects, and which minimises the cost to government of servicing new development.

2.5.5 the Tweed Local Environment Plan 2000

The Tweed Local Environment Plan (LEP) 2000 is a statutory plan, consisting of a set of 45 Zone Maps, which divide the Shire into various land-use zones, and a written document, which sets out what the development that can be carried out within them.

The Tweed LEP is a 'living document'. It was first gazetted in April 2000 and has since been the subject of 47 amendments, reflecting the outcomes of the Shire's own planning studies or of planning approvals, with the last revision being in October 2006.

2.5.6 Draft Tweed Local Environment Plan 2010

The Draft Tweed LEP 2010 is being prepared in two stages with the current Stage 1 generally consisting of a rollover of the existing provisions of Tweed LEP 2000 into the State Government’s standard LEP template ‘Standard Instrument Order 2006’.

The future Stage 2 review will comprise a comprehensive review of the existing LEP provisions and land zoning maps, with regard to the Local Growth Management Strategy and other strategic management plans. The Stage 2 LEP may necessitate future updates to the Tweed Road Development Strategy and CP4.

2.5.7 Draft Tweed Heads Masterplan 2009

Tweed Shire Council in collaboration with the Department of Planning’s City Centre Taskforce has prepared a new draft LEP for Tweed City Centre, which is also supported by a new Development Control Plan and Vision Document.

The masterplan aims to consolidate future urban growth forecast by the Far North Coast Regional Strategy into existing urban areas of Tweed Heads, in order to revitalise the city centre and reduce demand for new urban release areas. This plan has implications for existing road infrastructure in the Tweed Heads area, including the Pacific Highway, and as such has been considered in traffic masterplanning for the Lower Tweed and Pacific Highway corridor.

2.5.8 10.2 — Contribution Plan No 14 - Mebbin Springs

Version 4.0 of this Plan superseded the *Rural Road Upgrading, Mebbin Springs Subdivision, Kyogle Road, Kunghur Contributions Plan (No 14)*. CP No 14 was repealed with the adoption of this subsequent Plan in only so far as all future development applications are concerned, That is, Consent S94/70, the only consent issued to date, will continue to be administered under CP No 14 for as long as the consent remains valid.

2.6 Definitions and standards

Definitions

<u>Accredited Certifier</u>	<u>For the purposes of the certification of Construction Certificates and Complying Development Certificates as referenced in this plan, the Accredited Certifier is the principal certifying authority</u>
<u>EP&A Act</u>	<u>Environmental Planning and Assessment Act, as amended</u>
<u>EP&A Regulation</u>	<u>Environmental Planning and Assessment Act Regulation, as amended.</u>
<u>IPD (Implicit Price Deflator)</u>	<u>Index used for adjustment of construction component – refers to the value of work done (implicit price deflator); Chain Volume Measures; Engineering Construction; ABS Reference A405071T, ABS Product Number 8782.0.65.001</u>

Definitions

TSC Land Index Index used for adjustment of land acquisition costs – Tweed Shire Council Land Index, as published in Council’s Management Plan and Quarterly Report.

Nexus The relationship between the expected types of development in the area and the demand created by those developments for additional public facilities. The link between the proposed development and the increased demand for public facilities may be demonstrated through causal nexus (what), spatial nexus (where) and temporal nexus (when). **Causal nexus** requires that the need for the service or facility being levied must be a result of the development being levied. **Physical nexus** requires that the service or facility be near enough in physical terms to provide benefit to that development. **Temporal nexus** requires that the service or facility must be provided within a reasonable time.

Standards used in this contributions plan

Dwelling house/lot Equivalent to 2.4 persons (one Equivalent Tenement)
Source: Tweed Shire Urban Land Release Strategy 2009

Trip End or ‘trips’ Contributions in this Plan have been calculated using ‘trip-ends’, which is a basic measure of traffic generation. Every trip has two ends. For more information about how the ‘trip end’ is calculated and utilised in this plan, see Section 3.5.13-5.4 (Background (Transport Modelling)Background (Transport Modelling) on page 23.

2.7 Timing of payment

A contribution must be paid to the council at the time specified in the condition that imposes the contribution. If no such time is specified, the contribution must be paid prior to the issue of a construction certificate or complying development certificate.;

Council’s policy regarding the timing of payment of S94 contributions is prescribed in Table 3.8.1 below:

Table 2.7.1- Timing of Payments

<u>Type of consent</u>	<u>Timing</u>
<u>Subdivision where no further approvals are required</u>	<u>prior to release of the subdivision certificate</u>
<u>Development not involving subdivision but where a subsequent development application is required</u>	<u>prior to release of the construction certificate</u>
<u>Heavy haulage developments</u>	<u>annual fees submitted in quarterly increments</u>
<u>Any other developments</u>	<u>prior to the endorsement of the final plan or commencement</u>

2.8 Obligation of accredited certifiers

Construction Certificates:

In accordance with Clause 146 of the EP&A Regulation, a certifying authority must not issue a construction certificate for building work or subdivision work under a development consent unless it has verified that each condition requiring the payment of monetary contributions has been satisfied.

In particular, the certifier must ensure that the applicant provides a receipt(s) confirming that contributions have been fully paid and copies of such receipts must be included with copies of the certified plans provided to the council in accordance with clause 142(2) of the EP&A Regulation. Failure to follow this procedure may render such a certificate invalid.

The only exceptions to the requirement are where a works in kind, material public benefit, dedication of land or deferred payment arrangement has been agreed by the council. In such cases, council will issue a letter confirming that an alternative payment method has been agreed with the applicant.

Complying Development Certificates:

In accordance with section 94EC of the EP&A Act a certifying authority must impose a condition on a complying development certificate requiring the payment of a monetary contribution in accordance with this plan. The condition must require payment prior to commencement of works or prior to commencement of use whichever occurs first. The condition must be set out and be calculated in accordance with Schedule 7 of this plan.

Payment for contributions cannot be accepted by Council before Council has registered the complying development certificate in its system which will not occur until Council has received notification of the complying development certificate from the accredited certifier of the issuing of the certificate.

Failure to follow this procedure may render such a certificate invalid.

Recalculation of contributions:

Council's search fee will apply in cases where the recalculation of contribution rates is required.

2.9 9.4—Deferred or periodic Ppayment

The Council will generally not accept deferred or periodic payment of contributions. However, Council may consider an application where:

- (i) compliance with the provisions relating to when contributions are payable is unreasonable or unnecessary in the circumstances of the case; and

(ii) non-compliance with the terms of this clause will not prejudice the timing or the manner of the provision of road facilities for which the contribution was required as outlined in the Works Schedule; and-

~~The decision to accept a deferred or periodic payment is at the sole discretion of the Council.~~

~~(iii) where the applicant intends to make a contribution by way of a planning agreement, works-in-kind or land dedication in lieu of a cash contribution and council and the applicant have a legally binding agreement for the provision of the works or land dedication,~~

~~(iv) there are circumstances justifying the deferred or periodic payment of the contribution.~~

~~If council does decide to accept deferred or periodic payment, council may require the applicant to provide a bank guarantee by a bank for the full amount of the contribution or the outstanding balance on condition that:~~

- ~~• the bank guarantee be by a bank for the amount of the total contribution, or the amount of the outstanding contribution, plus an amount equal to thirteen (13) months interest plus any charges associated with establishing or operating the bank security~~
- ~~• the bank unconditionally pays the guaranteed sum to the council if the council so demands in writing not earlier than 12 months from the provision of the guarantee or completion of the work~~
- ~~• the bank must pay the guaranteed sum without reference to the applicant or landowner or other person who provided the guarantee, and without regard to any dispute, controversy, issue or other matter relating to the development consent or the carrying out of development~~
- ~~• the bank's obligations are discharged when payment to the council is made in accordance with this guarantee or when council notifies the bank in writing that the guarantee is no longer required~~
- ~~• where a bank guarantee has been deposited with council, the guarantee shall not be cancelled until such time as the original contribution and accrued interest are paid~~
- the bank guarantee is provided by an Australian bank or recognised financial institution.

2.10 "In-kind" settlement or material public benefit

~~The council may accept an offer by the applicant to provide an "in-kind" contribution (ie the applicant completes part or all of work/s identified in the plan) or through provision of another material public benefit as referred to in the [Environmental Planning and Assessment Regulation 2000](#) in lieu of the applicant satisfying its obligations under this plan.~~

~~Council may accept such alternatives in the following circumstances:~~

- ~~(a) the value of the "in kind" or material public benefit works or benefit to be undertaken is at least equal to the value of the contribution that would otherwise be required under this plan; and~~
- ~~(b) the standard of the works is to council's full satisfaction; and~~

(c) the provision of the "in kind" or material public benefit will not prejudice the timing or the manner of the provision of public facilities included in the works program; and

The value of the works to be substituted must be provided by the applicant at the time of the request and must be independently certified by a Quantity Surveyor who is registered with the Australian Institute of Quantity Surveyors or a person who can demonstrate equivalent qualifications.

Council will require the applicant to enter into a written agreement for the provision of the works.

Acceptance of any such alternative is at the sole discretion of the council. Council may review the valuation of works or land to be dedicated, and may seek the services of an independent person to verify their value. In these cases, all costs and expenses borne by the council in determining the value of the works or land will be paid for by the applicant.

~~2.11~~ 9.3.2 Credits

Some developments will require the construction of works identified in the Works Schedule. Clause 7.3.6 of Council's *Tweed Development Program - Management Plan* outlines Council's policy in these instances and it is reproduced here in Schedule 2 for completeness.

Works will be valued in accordance with the Works Schedule of this Plan provided the applicant is paying the levies nominated in this Plan

2.12 Adjustment of contribution rates

To ensure that the value of contributions are not eroded over time by movements in the land value increases, the capital costs of administration of the plan or through changes in the costs of studies used to support the Plan, the council will adjust the contribution rates.

Contributions are fixed for a twelve month period from the date of development consent and thereafter levied at the contribution rate current at the time of payment.

Sector contributions in this Plan

- (i) will be indexed on the 1st July of each year based on the Implicit Price Deflator (IPD) for Private Gross Fixed Capital Expenditure for Engineering Construction as published by the Australian Bureau of Statistics (A405071T) or
- (ii) will be adjusted based on revised works estimates prepared and the VLC transport/contribution models re-run with the "re-valued" works included as and when required.

Where applicable, the contribution rates will be adjusted in accordance with the consent condition by reference to the following specific indices:

- construction costs by the **IPD Chain Volume Measures:Engineering Construction** as published by **the Australian Bureau of Statistics (ABS)**;
- land acquisition costs by reference to average land valuation figures (**Tweed Land Index**) published by council in Council's Management Plan;

- specific valuations for particular parcels of land that are identified in the s94 plan as published by the council in Council’s Management Plan;
- changes in the capital costs associated with provision of administration and salary costs for staff involved in implementing council’s s94 plan by reference to increases in salary rates under the Local Government State Award Plan as published by the council in Council’s Management Plan;
- changes in the capital costs of various studies and activities required to support the strategies in the plan by reference to the actual costs incurred by council in obtaining these studies plan as published by the council in Council’s Management Plan.

In accordance with clause 32(3)(b) of the EP&A Regulation, the following sets out the means that the council will make changes to the rates set out in this plan.

For changes to the IPD index, the contribution rates within the plan will be adjusted on a quarterly basis in accordance with the following formula:

$$\frac{\$C_A + \$C_A \times ([\text{Current Index} - \text{Base Index}])}{[\text{Base Index}]}$$

Where

- | | |
|----------------------------|--|
| <u>$\\$C_A$</u> | is the contribution at the time of adoption of the plan expressed in dollars; |
| <u>Current Index IPD</u> | is the IPD as published by the ABS available at the time of adjustment of the contribution rate; |
| <u>Base Index IPD</u> | is the IPD as published by the ABS for the date of adoption of this Plan. |

Note: In the event that the Current IPD is less than the previous IPD, the Current IPD shall be taken as not less than the previous IPD. Also note that the ABS adjusts the base year annually and therefore the actual IPD figures to be used are those applicable on the date on which indexation occurs. Please refer to paragraph 1.3 for the applicable figures at the time of adoption, however these may vary over time for the reasons stated.

For changes to land values, the council will publish at least on an annual basis the revised land index values that are to be used to change the base land values contained in the plan which will be determined in accordance with the following formula:

$$\frac{\$C_{LV} + \$C_{LV} \times ([\text{Current LV} - \text{Base LV Index}])}{[\text{Base Index}]}$$

Where

- | | |
|--|---|
| <u>$\\$C_{LV}$</u> | is the land values within the plan at the time of adoption of the plan expressed in dollars; |
| <u>Current LV Index TSC Land Index</u> | is the land value index as published by the council available at the time of adjustment of the contribution rate; |
| <u>Base LV Index TSC Land Index</u> | is the land value index as published by the council for the date of adoption of this Plan. |

Note: In the event that the Current LV Index is less than the previous LV Index, the Current LV Index shall be taken as not less than the previous LV Index. Also note that the council may adjust the base year for this index and therefore the actual LV Index figures to be used are those applicable on the date on which indexation occurs. Please refer to paragraph 1.3 for the indexation figures available at the time of adoption, however these may vary over time for the reasons stated.

For changes in salary costs and changes in the costs for studies and other activities associated with the plan, council will publish at least on an annual basis the revised indices that are to be used to change the base costs of salaries and the costs of studies and associated activities in administering the plan.

2.13 Adjustments at the time of payment

The contributions stated in a consent are calculated on the basis of the s94 contribution rates determined in accordance with this plan. The contributions payable will be adjusted and the amount payable will be calculated on the basis of the contribution rates that are applicable at time of payment in accordance with the consent condition.

The current contribution rates are published by council and are available from council offices. Should the council not validly publish the applicable contribution rates, the rate applicable will be calculated in accordance with the rate prevailing in the previous quarter.

2.14 Allowances for existing development

Contributions will be levied according to the estimated increase in demand. An amount equivalent to the contribution attributable to any approved development on the site of a proposed new development will be allowed for in the calculation of contributions. Council will determine the credit on the basis of the likely demand that the existing development would create.

2.15 Pooling of contributions

This plan expressly authorises monetary s94 contributions paid for different purposes [within this plan](#) to be pooled and applied (progressively or otherwise) for those purposes. The priorities for the expenditure of the levies are [shown in the works scheduled determined by separate resolution of Council](#).

2.16 Savings and transitional arrangements

A development application which has been submitted prior to the adoption of this plan but not determined shall be determined in accordance with the provisions of the plan which applied at the date of determination of the application.

2.17 Register

Council will maintain a register of all contributions in accordance with EP&A Regulation 34.

The register will be made available for public inspection at any time during normal office hours. An annual statement of contributions will be produced documenting amounts received and relevant details. Such statements will also be made available for public inspection upon request.

3.0 PART C – STRATEGY PLAN AND NEXUS

3.1 Introduction

Part 116D of the Environmental Planning and Assessment Act requires that Council take account of 5 key considerations for development contributions, being:

- (a) Can the public infrastructure that is proposed to be funded by a development contribution be provided within a reasonable time?
- (b) What will be the impact of the proposed development contribution on the affordability of the proposed development?
- (c) Is the proposed development contribution based on a reasonable apportionment between existing demand and new demand for public infrastructure to be created by the proposed development to which the contribution relates?
- (d) Is the proposed development contribution based on a reasonable estimate of the cost of proposed public infrastructure?
- (e) Are the estimates of demand for each item of public infrastructure to which the proposed development contribution relates reasonable?

These considerations are addressed in this section by demonstrating a clear nexus between the requirement for the demand placed on the road network to meet the needs of the increased population as a result of new development and the works program designed to provide it.

According to the *Tweed 4/24 Strategic Plan 2004-2024* (Sept. 2004), the population on the Tweed could potentially reach 120,000 persons by 2024. Further, it has previously been estimated that the zoning provisions in the current *Local Environmental Plan 2000* could, ultimately, provide for a population of up to 150,000 persons. This latter figure represents almost a doubling in the Shire’s current (2006) population of about 84,000 persons.

Summary of Road Infrastructure Program

As a consequence of the past and projected development, and having regard to the level of road facilities currently available, it has and will be necessary to provide substantial additional road capacity.

The Plan identified 137 individual road improvement projects that either have been, or need to be, constructed to accommodate anticipated traffic volumes. (These projects exclude most of the roads and streets that developers will need to construct in order to specifically serve their own developments). The cost of the projects, that Council has or will need to fund, is \$588303M as summarised below.

Table 3.1AES.4 – Road Infrastructure Program Costs

Works Status

<u>Location</u>	<u>Capital Cost</u>	<u>Completed</u>	<u>Proposed</u>
TOTAL	\$305.1588M	\$37.480M*	\$267.7508M

*Based on actual costs and 2011 estimates for works as shown in Schedule 5

~~To date, some \$19M has been collected in developer contributions, compared with the \$37M already spent on works completed under the Plan. The fact that Council must carry the deficit, by completing works in advance of the anticipated development, has been anticipated and is part of the Plan's overall philosophy. By the same philosophy, Council can and will continue to levy contributions toward these and future completed works. The plan anticipates that there are instances where road infrastructure works will need to be completed by Council prior to development taking place. The plan provides a mechanism for carrying this deficit until such time as it can be refunded by development contributions.~~

Based on the contribution rates specified in this Plan and the extent and distribution of the anticipated future development, the Plan will recover ~~7948~~% of the total (\$~~305588~~M) cost of the road infrastructure program, as shown in Table ~~3.1BES-3~~, below. The balance of the cost of the road infrastructure program (\$~~64303.5~~M) will be carried by Council and represents an investment in the 'spare capacity' of the road network that would exist, once the currently anticipated levels of development are achieved.

Table ~~3.1B ES.3~~ – Road Infrastructure Cost Recovery

<u>Works Type</u>	<u>Value</u>	<u>Revenue</u>	<u>Recovery</u>
LAC Works	\$ 19.62.2 M	\$ 19.62.2 M	100%
Other Works	\$ 285.5585.8 M	\$ 222.0282.3 M	7848 %
All Works	\$ 305.1588 M	\$ 241.6284.5 M	7948 %

The contribution rates in the Plan will be amended on the 1st of July each year based on the IPD (Engineering Construction) as determined by the Australian Bureau of Statistics or a re run of the VLC model.

Council Policies

A) Concessions:

~~A) aA~~ concession is offered to all commercial job creating **developments (not including detached housing and unit developments)**, across the Shire except in the following areas:

- i) coastal development between Kingscliff and Bogangar (Sector 7): Casuarina, Kings Forest, Salt, and the 'Tourist Property' (Lot 490 DP 47021); and
- ii) developments in Bilambil Heights and Cobaki.

The concession is not available for developments exploiting 'existing use rights' as defined in Clause ~~3.6.17.4~~, and nor can Local Area Contributions be discounted by the concession.

The offer by Council stands at forty percent (40%) and Council may review the concession on an annual basis at 1st July each year.

B) Deferred Payments:

Council accepts staged payment of commercial contributions: four equal payments over three years consisting of an initial payment and three subsequent payments together with a bank guarantee in accordance with Clause 2.9 as security, although other options that protect Council's interest may be acceptable.

C) Heavy Haulage (Extractive Material)

This contribution is applied to developments that receive extractive materials from heavy haulage vehicles using Council's road network. [If all or part of the material is obtained from a designated source, Council will waive the contribution requirement for that amount of material obtained from the designated source. A copy of the current list of designated sources may be obtained from Council.]

D) Eligible Business Enterprises

Eligible Business Enterprises may be excluded from the need to make TRCP payments. The application of this concession is defined Eligible Business Enterprises are defined by resolution of Council. Details can be obtained from Council's Development Assessment Unit. as retail, commercial and light industrial, change of use, activities to be established in rented premises with a gross floor area of less than 1,000m². Professional chambers are included in the definition. Final determination of the application of this concession eligibility of a business into this category will be is at the discretion of the Director Development Services Planning and Regulation.

3.2 Levy Areas 3- LEVY AREAS

This Contribution Plan levies all traffic generating developments within the Tweed Shire local government area. A two-tier system is used to determine the overall TRCP contribution: Standard Contribution and a Local Area Contribution.

A contribution will be required from activities that generate heavy haulage traffic anywhere in the Shire.

3.2.1 3-1 Standard Contribution

In assessing the standard contribution, the Plan uses a differential pricing system based on 14 sectors (or localities) and the intended land use:

- Sectors - the unit rate of contribution varies across the Shire depending on the value and amount of road space likely to be consumed by a unit of traffic (a trip-end) generated by a development located in that area. The 14 sectors defined for this purpose are shown in Figure 3.1 (in Schedule 3).
- Land Use – differing land uses and development types generate differing traffic volumes or demands. The potential traffic generation of an intended development can be determined using the trip rate table in Table 7-13.6.1A (following on Page 16XX).

The Standard Contribution payable is determined from the product of the sector-based unit rate and the estimated traffic generation of the development.

3.2.2 Local Area Contributions

Council administers, on behalf of land-owners/developers, the assignment or apportionment of responsibility for works in localised areas. These areas are listed in Table 3.42.2 and defined in Figures 3.2a – 3.2d. Council may add to this list where the need arises or when approached by a consortium of land owners.

Table 3.1 3.2.23.2.23.3.2 - Local Area Contributions

No.	Locality	Developments	Application
1	Deleted in Version 6 Terranora, Area E	Terranora	
2	Deleted in Version 6 Kings Forest	Cabarita	
3	Pottsville	Leisure Gardens Seabreeze, Koala Beach	Land defined in Figure 3.2c ⁽¹⁾
4	Duranbah /Cabarita	Kings Beach Casuarina	Land defined in Figure 3.2d ⁽¹⁾

Notes: 1. Refer to Schedule 3

3.3 ~~Nexus4~~ NEXUS

3.3.1 ~~4.1~~ Need

Population growth is known through experience to generate additional traffic, creating the need for improved roads or sometimes more roads. The actual volume and characteristics of traffic demand is directly related to land-use. Field surveys and manuals on the subject, including the NSW Roads and Traffic Authority's Guide to Traffic Generating Developments (~~Issue 2.2 – October 2002~~) demonstrate that the increase in traffic is dependent on the types of development. The actual increases vary considerably with the extreme being the increase in traffic generation due to shopping centres, fast food stores and the like.

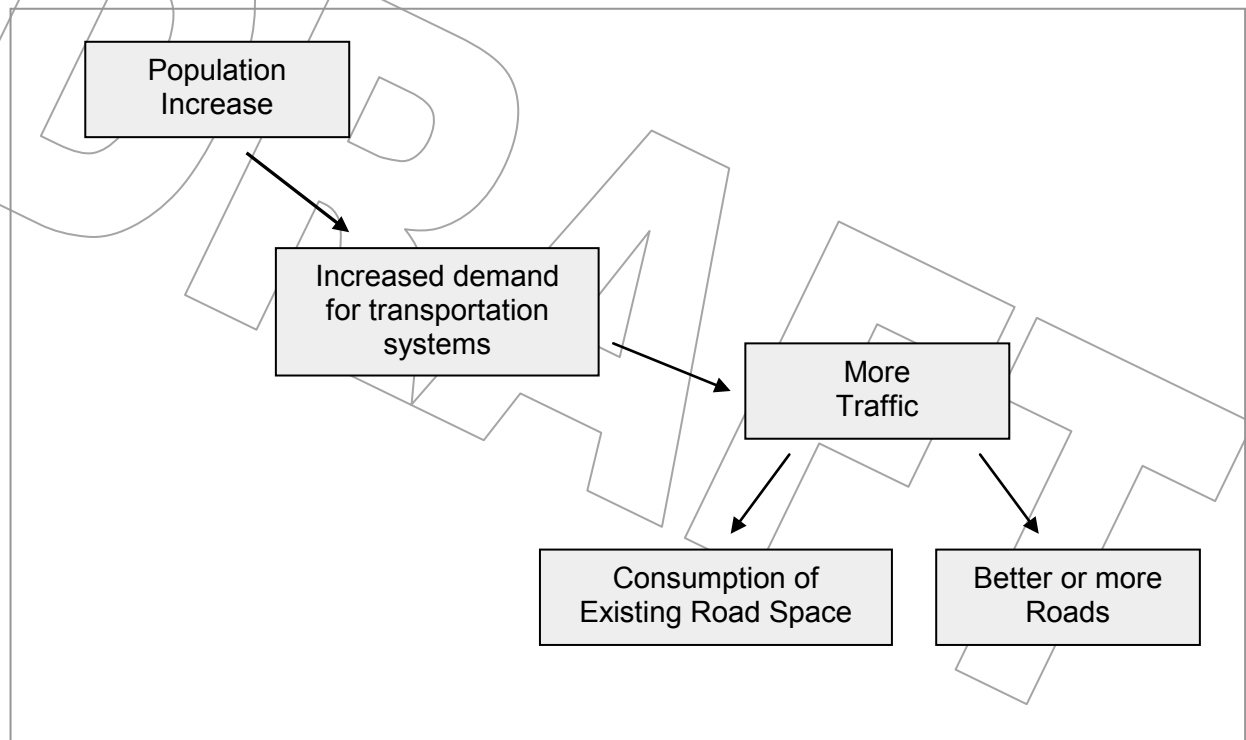


Figure ~~3.33~~ 3.3.3.4 Nexus

3.3.2 ~~4.2~~ Impacts

Extra traffic can impact upon:

- * operational efficiency
- * amenity
- * safety
- * pavement life; and
- * public finances

Operational efficiency traditionally relates to the performance of major roads. However, in high growth areas like the Tweed Shire, the effects may extend to local roads, which were never designed nor envisaged to be significant traffic corridors. Amenity is primarily a concern for

3.3 Nexus continued

residents fronting local roads and in particular local urban streets. Safety, arguably the most important consideration of all, applies everywhere. Remedies are provided through augmentation, replication, and diversion.

Development traffic may significantly reduce the expected life of a road pavement. Such impacts are well advanced in literature. For example, it has been known since the 1950's (Yoder, 1959) that the life of a pavement is proportional to the load being applied and varies directly with the logarithm of the number of load applications. That is, the heavier the load and the more frequent a load is applied, the quicker a road fails. It is this principle that forms the basis of the Heavy Haulage Contribution in Sections [6-43.5.5](#) and [7-2-3.6.2](#).

Traffic impacts accumulate over time. A contributions policy overcomes financing issues created by incremental development / decision making processes. It can nearly always be shown that an impact of a small single development is negligible and therefore seemingly admissible. However, in time the cumulative impact of several developments may cause significant funding dilemmas for a service provider, especially where threshold capacities are exceeded.

3.3.3 4.3 Assessment

Council engaged, Veitch Lister Consulting to examine the impact of development on Council's road network and to equitably assign the cost of developing the future road network between the users. This was undertaken as part of the Tweed Road Development Strategy (1997), [and refined in subsequent updates](#).

3.3.3.1 4.3.1 Model

Veitch Lister Consulting used advanced computer simulation techniques to predict the likely impact of traffic on the Tweed road network. The outcome of this mathematical model is the best prediction Council can obtain of the volume and distribution of traffic growth in the years to come.

3.3.3.2 4.3.2 Growth

As a prerequisite to developing the new traffic model of Tweed Shire for the Banora Point / South Tweed Traffic Study (2004), VLC undertook a comprehensive review of the Shire's potential future population and its distribution. This re-appraisal was documented in Working Paper No.2 (Demographic Assumptions) of that study and summarised in Table 4.1, below.

Table [3.3.3.24.4](#) - Forecast Population Growth

Area	2001	2011	Ultimate (2030?)
Tweed Heads	7,642	8,241 (+8%)	9,028 (+18%)
West Tweed Heads	9,138	13,027 (+43%)	27,461 (+201%)
South Tweed Heads	22,161	27,791 (+25%)	36,141 (+63%)
North Tweed Coast	8,807	16,075 (+83%)	29,574 (+236%)
South Tweed Coast	7,298	12,521 (+72%)	15,274 (+109%)
Murwillumbah	7,553	8,714 (+15%)	11,900 (+58%)

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3.3 **Nexus** continued

Rural ⁽¹⁾	11,781	12,828 (+9%)	17,888 (+52%)
TOTAL	74,380	99,197 (+33%)	147,266 (+98%)

Notes: 1. Including rural villages

3.3.3.3 ~~4.3.3~~ Traffic

VLC's traffic modelling found that the Tweed Shire road network will experience considerable traffic growth, especially on the Tweed Coast and in the urban areas, as a result of the anticipated urban development. Most major urban road corridors will be required to carry considerably more traffic, with many needing to be upgraded or augmented through the addition of new road corridors or links.

Schedule 5 to this Plan describes in detail the scale of works needed to provide adequate levels of traffic service in these growth areas. No new rural road links are required, however many rural roads require widening and re-alignment to improve capacity and road safety generally. No rural road has been identified to be greater than two lanes.

3.4 5. Works ScheduleWORKS SCHEDULE

3.4.1 5.1 Works

The road infrastructure projects covered by this Plan (both completed and proposed) are listed, along with detailed costings, in Schedule 5. The road infrastructure works program comprises 137 items, estimated to cost around ~~\$305XXXX~~588M.

~~— This road infrastructure works program is the result of functional analyses of the future road network during the various traffic studies that preceded this Plan and is listed Section 2.5 in the Executive Summary.~~

~~— Version 5.1 of this plan amends the Works Schedule at Schedule 5 by adding an additional item 29a:~~

~~—~~

~~— 29a. Kennedy Drive Four-laning, Total Cost \$3,222,000.~~

~~—~~

3.4.2 Existing Roads

5.2 Existing Roads

Contributions specified in this Plan are calculated on the unit capacity consumed in the road network, including existing roads assessed at replacement value including a land value component, in accordance with Council's policy. Although the contributions are based on road space consumption, the monies raised will all be directed toward completing the projects in the road infrastructure works program.

3.4.3 Contingencies

The majority of road infrastructure projects covered by this plan are based on conceptual designs only, that is, strategic level assessments of likely alignments, cross sections, and constraints. Due to this fact contingencies have been applied to the cost estimates to reflect the risk to Council that when these road projects are actually constructed, the actual costs will be higher than originally estimated.

Percentage contingencies for road works estimates have been calculated in general accordance with the Project Estimating matrix for strategic road projects (Roads and Traffic Authority NSW) as detailed in Schedule 8, and as summarised below:

3.3 Works Schedule continued

Low Level of Concept Certainty:

<u>Task</u>	<u>Comment</u>	<u>Contingency</u>
<u>Project scope</u>	<u>Not confident and not reliable</u>	<u>15%</u>
<u>Risks</u>	<u>Not confident and not reliable</u>	<u>15%</u>
<u>Constructability</u>	<u>Not confident and not reliable</u>	<u>10%</u>
<u>Key dates</u>	<u>Not confident and not reliable</u>	<u>5%</u>
<u>Information</u>	<u>Not confident and not reliable</u>	<u>15%</u>
<u>Length of project</u>	<u>Not confident and not reliable</u>	<u>10%</u>
	<u>TOTAL</u>	<u>70%</u>
	<u>ADOPTED CONTINGENCY</u>	<u>70%</u>

Medium Level of Concept Certainty:

<u>Task</u>	<u>Comment</u>	<u>Contingency</u>
<u>Project scope</u>	<u>Reasonably confident and reliable</u>	<u>12%</u>
<u>Risks</u>	<u>Reasonably confident and reliable</u>	<u>12%</u>
<u>Constructability</u>	<u>Reasonably confident and reliable</u>	<u>8%</u>
<u>Key dates</u>	<u>Reasonably confident and reliable</u>	<u>4%</u>
<u>Information</u>	<u>Reasonably confident and reliable</u>	<u>12%</u>
<u>Length of project</u>	<u>Reasonably confident and reliable</u>	<u>7%</u>
	<u>TOTAL</u>	<u>55%</u>
	<u>ADOPTED CONTINGENCY</u>	<u>50%</u>

High Level of Concept Certainty:

<u>Task</u>	<u>Comment</u>	<u>Contingency</u>
<u>Project scope</u>	<u>Highly confident and reliable</u>	<u>9%</u>
<u>Risks</u>	<u>Highly confident and reliable</u>	<u>9%</u>
<u>Constructability</u>	<u>Highly confident and reliable</u>	<u>6%</u>
<u>Key dates</u>	<u>Highly confident and reliable</u>	<u>3%</u>
<u>Information</u>	<u>Highly confident and reliable</u>	<u>9%</u>
<u>Length of project</u>	<u>Highly confident and reliable</u>	<u>4%</u>
	<u>TOTAL</u>	<u>40%</u>
	<u>ADOPTED CONTINGENCY</u>	<u>30%</u>

Detailed Design Available: Adopt standard 15% contingency, except where known areas of uncertainty justify application of a higher contingency.

3.5 6. Formula FORMULA

6.13.5.1 Background (Transport Modelling)

The prediction of traffic volumes on individual roads in Tweed Shire has been undertaken using VLC’s proprietary travel demand forecasting software (‘Zenith’). In essence, the Zenith models forecast the number of ‘trips’ likely to be made between differing areas (or zones) - a ‘trip matrix’. A trip has two end points - a beginning point or ‘origin’ and a ‘destination’, which is sometimes referred to as the ‘attraction’.

For example, if someone leaves home to go shopping, the ‘origin’ end of their trip is their house and the ‘destination’ end of their trip is the chosen shopping centre. On the journey home though, the shopping centre becomes the start point or origin and the person’s house is the destination. Some journeys may involve a number of ‘stops’ and this too is accounted for via a concept called ‘diverted’ trips.

Given the future land use assumptions and the transport network connecting these land uses, the Zenith model uses parameters derived from existing travel patterns and choices to forecast where people will most likely travel from and to. It does this for a multiplicity of trip purposes, such as shopping trips, commuting, going to school, etc. The Zenith model also forecasts which trips are likely to be undertaken by walking or cycling and by public transport, in order to determine the ‘vehicle trip matrices’.

6.23.5.2 Standard Formula

Contributions in this Plan have been calculated using ‘trip-ends’, which is a basic measure of traffic generation. Every trip has two ends.

In making a journey or trip, a vehicle will occupy space (or consume capacity) on each road link travelled. By assigning unit values (\$) of capacity to each link in the model road network, the VLC model is able to determine the value of road space consumed by vehicular trips between pairs of areas (or sectors).

Given that each trip has two ends, the value of the road space consumed by each trip can be allocated half to each sector.

The value of road space consumed by each sector is half of the sum of the road space consumed by all trips to or from that sector. The average value of road space consumed by the sector any trip to or from the sector is, then, that sectors total share of road space consumption divided by the total number of trip-ends generated or attracted by that sector. The formula below conceptually outlines the computation process.

$$\$Standard\ Trip\ End_{cost} = \frac{\$Total\ Road\ Capacity\ Consumed_{sector}}{Total\ Trip\ Ends_{sector}}$$

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3.5 Formula continued

For Sectors 4 and 8 the above “\$Standard Trip End” is also to be multiplied by an “adjustment factor” calculated in accordance with Schedule 6.

where:

$\$Standard\ Trip\ End_{cost}$ = Standard Contribution per daily trip-end

and

$Total\ Trip\ Ends_{sector}$ = the sum of all trip-ends either originating from or attracted to land use activities within the sector.

and

$\$Total\ Road\ Capacity\ Consumed_{sector}$ = the sum of road capacity consumed on all roads by traffic either originating or attracted to activities in the sector.

The above calculations are repeated for each individual area (or sector). In the case of this Plan, fourteen sectors have been assessed (as defined in Figure 3.1 in Schedule 3) and the calculation summarised in Table 6-13.5.2 below.

Table 6-13.5.2 - Standard Trip End Costs

Sector	Value of Capacity Consumed by Each Sector	Trip Ends Generated by Each Sector	\$Standard Trip End _{cost}	Adjusted \$-Standard Trip End Cost ⁽⁺⁾
1. Tweed Heads	\$52,987,985 \$72,996,996	94,010	\$ 564 776	\$ 564
2. Tweed Heads South	\$119,986,990 \$187,081,449	149,032	\$ 805 1,255	\$ 805
3. Cobaki	\$31,224,414 \$47,678,786	36,352	\$ 859 1,312	\$ 859
4. Bilambil Heights ⁽⁺⁾	\$66,940,274 \$115,393,688	42,727	\$ 1,566 *2,701	\$ 1,572
5. Terranora	\$36,248,834 \$52,288,330	27,612	\$ 1,343 1,894	\$ 1,343
6. Kingscliff	\$46,865,754 \$68,571,284	63,352	\$ 740 1,082	\$ 740
7. Duranbah	\$62,695,377 \$83,239,190	76,362	\$ 824 1,090	\$ 824
8. Pottsville ⁽⁺⁾	\$26,222,698 \$34,090,397	27,880	\$ 941 *1,223	\$ 967
9. Murwillumbah	\$55,568,538 \$69,470,951	55,379	\$ 1,003 1,254	\$ 1,003
10. Rural – Inner East	\$38,625,238 \$48,301,208	28,067	\$ 1,376 1,721	\$ 1,376
11. Burringbar	\$6,584,089 \$8,138,700	6,825	\$ 965 1,192	\$ 965
12a. Rural – Inner North	\$8,075,040 \$11,111,532	3,984	\$ 2,027 2,789	\$ 2,027
12b. Rural – Inner West	\$18,565,213 \$22,329,422	10,470	\$ 1,773 2,133	\$ 1,773
13. Rural - Outer	\$21,402,214 \$25,031,688	10,373	\$ 2,034 2,413	\$ 2,034
Overall	\$591,662,616 \$845,723,621	632,425	\$ 936 1337	\$ 936

Notes:

3.5 Formula continued

- ~~(1) Items 4 and 8 have been adjusted by an **adjustment factor** see Schedule 6.~~
- ~~(2) The figures in tables ES.2 and 7.3 derived from this table further increase the rates per trip above by 0.7% in order to take account of an increase in the works program of \$2,156,684 or 0.7% (adoption report to Council July 2007).~~

3.5.3 6.3 Local Area Formula

This Plan also administers the equitable distribution of construction costs of local works between local developers. Urban release areas may involve a number of landowners, and the aim is to assist the parties to jointly fund shared and necessary infrastructure facilities.

The cost of the designated local works in each local area have been similarly apportioned on the basis of the trip-ends expected to be generated / attracted by all anticipated developments in that local area, as follows:

$$\$Local\ Trip\ End_{cost} = \frac{\$Works_{local}}{New\ Trip\ Ends_{local}}$$

where:

$\$Local\ Trip\ End_{cost}$ - Local Area Contribution per daily trip end

and

$\$Works_{local}$ - value of the local works projects.

and

$New\ Trip\ Ends_{local}$ - the total 'new' trip-ends expected to be generated / attracted by all anticipated (new) developments in the area.

Table ~~3.5.36.2~~ is the result of applying the local area formula at four localities. The number of localities may increase where local developers wish Council to administer the distribution or liability for local works.

Table ~~3.5.36.2~~ - Local Area Trip End Unit Costs

Location	Value of Works _{local}	New Trip Ends	$\$Local\ Trip\ End_{cost}$	Comments
1. Terranora	\$ 6,150,199	13,669	\$479450	<ul style="list-style-type: none"> • Applies to all of 'Area E' Deleted Version 6 • Work Items 126 – 132
2. Cabarita	\$ 10,301,920	30,000	-\$343*	<ul style="list-style-type: none"> • Applies to the Kings Forest Development only Deleted Version 6 • Work Items 133 – 134
3. Pottsville	\$ 824,770678,000	10,435	\$7965**	<ul style="list-style-type: none"> • Applies to Leisure Garden Seabreeze and Koala Beach Estates only • Work Items 135 - 136
4. Kings Beach	\$ 1,548,8001,318,900	9,680	\$137160	<ul style="list-style-type: none"> • Applies to Kings Beach (Casuarina) Development only • Works Item 137
Total	\$19,634,289 18,595,789	--	--	

* For estimation purposes only – the Kings Forest Development will be required to construct the road
 ** For estimation purposes only – Work Items 135 – 136 are to be equally shared between the parties, Leisure Gardens and Koala Beach Estates, with costs and timing of the contribution subject to negotiation and surety.

3.5 Formula continued

Local Area Works Items 126 — 136, inclusive, are to be totally funded by the ‘new’ development, as the works are not required by the broader community. The determination of the Local Area Contribution is purely administrative, to allow Council to share local costs between local developers. That is, Council would not manage localised situations, if it meant funding or acting as banker to the release area.

3.5.4 6.4 Interest

It is not planned to borrow to fund the construction of projects listed in the Works Schedule of the Plan. The timeframe for construction will be based on cash flow paid into the Plan and projects generally won't be constructed until sufficient funds are available within the plan

3.5.5 6.5 Heavy Haulage (Extractive Material)

Developments in this category will be charged a contribution commensurate with the additional wear and tear on Council's road network caused by heavy transport vehicles and/or frequent traffic use. This contribution is in addition to the contributions in Section 6-13.5.2, which are based on consumption of road network space / capacity.

For the purpose of this plan “heavy haulage” applies to the haulage by road of extractive material. It includes quarry products and raw materials, soil, clay, silt, sand, gravel, rock, stone, aggregate, fill and similar substances.

Heavy haulage has a source and destination. To avoid double dipping, the charge will be made on destination development.

The contribution is a levy based on quantities, calculated as follows:

$$\$Unit = \frac{\$Value\ of\ pavement\ consumed_{reconstruction\ cost}}{life\ of\ pavement_{ESAs}}$$

where:

$\$Unit$ = heavy haulage contribution per tonne per kilometre

and

$\$Value\ of\ pavement\ consumed_{reconstruction\ cost}$ = cost per kilometre to rehabilitate pavement for the expected usage life of the pavement

$life\ of\ pavement_{ESAs}$ = life of pavement measured as a function of usage, ie. Equivalent Standard Axles (ESA's).

Based on the assumptions and computations included in Schedule 1, the $\$Unit$ charge to be levied under this current Plan will be:

$$\$ 0.21 \text{ per ESA per kilometre of road traversed with load onboard.}$$

3.5 Formula continued

3.5.6 ~~6.6~~ Administration

A surcharge of 5% to cover the costs associated with administering and updating the Plan- is applied to ~~heavy haulage~~ contributions collected under this Plan.

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3.6 Contribution Rates7. CONTRIBUTION RATES

Traffic generating developments are required to contribute to the development of Tweed Council's road network, calculated in accordance with Sections 7.13.6.1 and 3.6.2 and 7.2 below. Development applications will be conditioned at consent to contribute the TRCP contribution, ($\$Con_{TRCP}$), or the "Heavy Haulage Levy" ($\$Con_{TRCP_HEAVY}$), or both.

3.6.1 7.1 Standard and Local Area Contributions

TRCP contributions, $\$Con_{TRCP}$, are calculated:

$$\$Con_{TRCP} = (Admin \times Trip\ End_{(development)} \times \$Total\ Trip\ End_{cost}) - \$Existing$$

where:

$\$Con_{TRCP}$ - contributions to be paid to Council by way of condition of consent

and

$Trip\ Ends_{development}$ - the total trip ends created or attracted to the development being assessed, using trip generation rates in Table 7.1.

and

$\$Total\ Trip\ End_{charge}$ - total trip-end charge, as defined later in this Section.

and

$\$Existing$ - value of 'existing use rights', where applicable.

and

$Admin$ - Administration Charge of 5%

The total trip-ends of a development shall be calculated using the trip generation rates listed in Table 7.13.6.1A, following. These trip generation rates are NOT to be used for the design of traffic facilities, as Council adopts specific design codes referred to in Tweed Development Control Plan Section A5 for these works.

Redevelopment will not be automatically entitled to the 'existing right'. Applicants may need to show how the 'existing right' reflects contributions to the funding of major works in this Plan.

The total trip cost is given by:

$$\$Total\ Trip\ End_{cost} = Modification \times (\$Standard\ Trip\ End_{cost} + \$Local\ Trip\ End_{cost})$$

where:

$Modification$ - allowance for diverted trips - see Table 7.23.6.1B

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Tweed Road Contribution Plan

3.6 Contribution Rates continued

\$Standard Trip End_{charge} - Standard Contribution - see [Section 6.1 Table 3.5.2](#)

\$Local Trip End_{cost} - Local Area Contribution - see [Section 6.2 Table 3.5.3](#)

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3.6 Contribution Rates continued

Table 3.6.1A7-4 - Trip Generation Rates by Land Use

No	Land Use	Daily Trip Rate	Unit Per
RESIDENTIAL AND TOURIST			
1	Dwelling house	6.5	Household
2	Multi Dwelling housing	3.9	Unit
2.1	Housing for older people or people with disabilities (SEPP 5)		
a.	Residential care facility	2	Occupant
b.	Hostel	2	Occupant
c.	Self contained dwelling with onsite community facilities (community meeting rooms, recreation/sports facilities, library/reading rooms etc)	2.5	Dwelling
d.	Self contained dwelling. No onsite community facilities (apart from communal laundry, washing)	3	Dwelling
21	Motels	5	100 m2 GLA
35	Tourist Resort	2.48 plus 12	Room or Unit 100m ² GLA of restaurant
COMMERCIAL-RETAIL*			
6	Service station	200	Pump
8	Shop/General Store <, 100m2	2.8 (A)	A = m2 GLA
9	Shopping Centre 100m2 < SC < 6,000m2	200 + 0.8 (A)	A = m2 GLA
10	Shopping Centre 6,000m2 < SC < 10,000m2	500 + 0.75 (A)	A = m2 GLA
11	Shopping Centre >= 10,000m2	3200 + 0.48 (A)	A = m2 GLA
12	Retail Garden centre not included in Shopping Centre	40	100 m2 retail area
13	Hardware not included in shopping centre	80	100 m2 GLA
20	Retail Tyre Outlets	10	100 m2 GLA
22	Pub / Tavern / Hotel	110	100 m2 GLA
23	Refreshment Room (eg Restaurant)	60	100 m2 GLA
23.1	Fast food outlet with associated drive through capability	200	100m2GLA
24	Retail Market	20	100 m2 GLA
31	Licensed Clubs	100	100 m2 GLA
32	Motor Showrooms	5	100 m2 GLA
BULKY GOODS*			
14	Mixed Retail Showroom Bulky and Non Bulky goods)	40	100 m2 GLA
15	Bulky Goods Retailing (eg Furniture Showroom)	10	100 m2 GLA
COMMERCIAL – OFFICE*			
16	Commercial Premises (Offices / Professional Centre)	16	100 m2 GLA
17	Commercial Premises (Major Offices including government)	12	100 m2 GLA
COMMERCIAL-BUSINESS PREMISES*			
18	Medical Centres & Dentists(greater than 3 consulting rooms)	50	100 m2 GLA
19	Professional Consulting Rooms	50 - 150	100 m2 GLA
LIGHT INDUSTRY*			
28	Light Industry	5	100 m2 GLA
34	Mixed Industrial Park	7.0	100 m2 GLA
WAREHOUSE OR DISTRIBUTION CENTRE*			
29	Warehouses	4	100 m2 GLA
MISCELLANEOUS			

3.6 Contribution Rates continued

Table 3.6.1A7-1 - Trip Generation Rates by Land Use

3	Child Care Centre	3.7	Enrolment
4	Education Establishment (Primary School)	1.4	Enrolment
5	Education Establishment (High School)	1.4	Enrolment
7	Education Facility (TAFE College/University)	1.8	Enrolment
25	Recreation Facility - Squash	40	Court
26	Recreation Facility - Tennis	40	Court
27	Recreation Facility - Gymnasium	50	100 m2 GLA
30	Hospitality Facilities	50	100 m2 GLA
33	General Heavy Industry	1.5	100 m2 GLA

* Definition of commercial and industrial uses in accordance with SEPP (Exempt and Complying Development Codes) 2009 and the standard LEP template.

Notes:

- a) 'A' denotes area of floor space in m2 Gross Lease Area (GLA).
- b) Detached housing in Sector 13 - adopt 6.5 daily trips per household.
- c) Multiple Occupancies (MO's) in Sectors 12 and 13 - adopt half (0.5) the detached household generation rates per MO household.
- d) GLA for Motor Showrooms includes any external display areas.
- e) A TOURIST RESORT is defined as a tourist accommodation facility with integrated reception area, common servicing and management of up to 400 rooms or units; featuring mainly accommodation with restaurants, pools, tennis courts, gym, conference facilities and moderate rates of arrival by car of 40 to 70%; and being in an Urban or Fringe Urban location within the Tweed Region.
If the Tourist Resort has a golf course/bowling greens/retail shopping/marina or is within a National park and is open to day visitors then category use No 35 does not apply and a Traffic Management Report will be required.
- f) Where a proposed traffic generation rate departs from the prescriptive rates in this table (excluding the dwelling house and multi dwelling house component) or is not stated, a detailed *Traffic Study* is required substantiating that the proposal conforms with the principles and objectives of this plan. The *Traffic Study* may be based on observed daily traffic generation rates of similar land uses in the area on at least 4 representative occasions. Further reference should also be made to Section 7-33.6.3 of this plan.

Allowance is made for diverted trip making, being shared purpose journeys, using factors given in Table 3.6.1B7-2.

Table 3.6.1B7-2 - Modification Factors for Specific Land Uses

Category of Land Use	Contribution Modification
Child Minding Facilities	0.60
Primary School	0.75
High School	0.80
Suburban Service Station	0.10
Local Shops to 100 m ²	0.15
100 m ² < Shop < 6,000 m ²	0.15 to 0.55 at 6,000 m ²⁽¹⁾
6,000 m ² < Shop < 10,000 m ²	0.55 to 0.60 at 10,000 m ²⁽²⁾
Shops >= 10,000 m ²	0.6
Fast food outlet with drive through facility	0.65

3.6 **Contribution Rates** continued

Equations required for modification factor (Shop)

(1)
$$= 0.15 + 0.4 \left[\frac{A - 100}{5,900} \right]$$

(2)
$$= 0.55 + 0.05 \left[\frac{A - 6,000}{4,000} \right]$$

$$A = m^2 GLA$$

The modification factor applies to both the Standard and Local Area Contributions save that suburban service stations shall be a minimum of 0.5 when calculating the Local Area Contribution.

LTTS payments previously paid for a property are recognised by the TRCP at current dollar value, that is, indexed from the day of payment using the All Groups Consumer Price Index (ABS 6401.0) for Brisbane. Alternatively, where LTTS contributions have been made, recognition may be given at the rates in this Plan for equivalent land use categories. For example, a previous payment for 10 households in the old LTTS Scheme is equivalent 10 households in this scheme.

In summary, TRCP contributions per household for each sector, including local area contributions are outlined in Table [7-33.6.1C](#). This table also gives the \$Total Trip End charge for each Sector, assuming no discounts for diverted trip making and no previous LTTS payments.

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Tweed Road Contribution Plan

Table **3.6.1C7.3** - TRCP \$Total Trip End contribution and Household Contributions by Sector

Sector	Locality	Base Rate Per Trip Calculation				Adjusted – Total Trip End Contribution (to be used for TRCP calculations)	Current Contribution Adjusted for IPD 1 July 2009 ⁽²⁾	Household calculation		Adjusted Household Contribution (to be used for TRCP calculations)	Current Contribution Adjusted for IPD 1 July 2009 ⁽²⁾
		\$Standard Trip End Contribution ⁽¹⁾	\$Local Trip Contribution	Admin Fee 5% Factor	Total Trip End Contribution (prior to application of adjustment factor)			Trip ends per Household	Prior to application of adjustment factor Total Household Contribution		
1	Tweed Heads	\$568 <u>\$745</u>	\$-	1.05	\$506 <u>\$782</u>	\$596	\$656	6.5	\$3,877 <u>\$5,085</u>	\$3,877	\$4,264
2	Tweed Heads South	\$811 <u>\$1,148</u>	\$-	1.05	\$851 <u>\$1,205</u>	\$851	\$936	6.5	\$5,535 <u>\$7,835</u>	\$5,535	\$6,084
3	Cobaki	\$865 <u>\$1,051</u>	\$-	1.05	\$908 <u>\$1,104</u>	\$908	\$999	6.5	\$5,904 <u>\$7,173</u>	\$5,904	\$6,494
4	Bilambil Heights	\$1,577 <u>\$2,121</u>	\$-	1.05	\$1,656 <u>\$2,227</u>	\$1,662⁽²⁾	\$1,829	6.5	\$10,764 <u>\$14,476</u>	\$10,803	\$11,889
5	Terranora	\$1,322 <u>\$1,778</u>	\$-	1.05	\$1,388 <u>\$1,867</u>	\$1,388	\$1,527	6.5	\$9023 <u>\$12,135</u>	\$9,023	\$9,926
	LAC1: 'Area E'	\$1,322 <u>\$1,778</u>	\$479 <u>\$450</u>	1.05	\$1,891 <u>\$2,339</u>	\$1,891	\$2,081	6.5	\$12,292 <u>\$15,206</u>	\$12,292	\$13,527
6	Kingscliff	\$745 <u>\$1,017</u>	\$-	1.05	\$782 <u>\$1,068</u>	\$782	\$861	6.5	\$5,085 <u>\$6,941</u>	\$5,085	\$5,597
7	Duranbah/Cabarita	\$827 <u>\$1,077</u>	\$-	1.05	\$868 <u>\$1,131</u>	\$868	\$955	6.5	\$5,644 <u>\$7,351</u>	\$5,644	\$6,208
	LAC2: Kings Forest Development	\$827 <u>\$1,077</u>	\$343	1.05	\$1,228 <u>\$1,491</u>	\$1,228	\$1,351	6.5	\$7,985 <u>\$9,692</u>	\$7,985	\$8,782
	LAC4: Casuarina	\$827 <u>\$1,077</u>	\$137 <u>\$136</u>	1.05	\$1,012 <u>\$1,274</u>	\$1,012	\$1,114	6.5	\$6,579 <u>\$8,279</u>	\$6,579	\$7,241
8	Pottsville	\$974 <u>\$1,218</u>	\$-	1.05	\$995 <u>\$1,279</u>	\$1,022⁽²⁾	\$1,125	6.5	\$6,470 <u>\$8,313</u>	\$6,647	\$7,313
	LAC3: Koala Beach/Seabreeze	\$974 <u>\$1,218</u>	\$79	1.05	\$1,078 <u>\$1,362</u>	\$1,105⁽²⁾	\$1,216	6.5	\$7,007 <u>\$8,852</u>	\$7,182	\$7,904
9	Murwillumbah	\$1,010 <u>\$1,249</u>	\$-	1.05	\$1,060 <u>\$1,362</u>	\$1,060	\$1,166	6.5	\$6,893 <u>\$8,852</u>	\$6,893	\$7,579

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Tweed Road Contribution Plan

Sector	Locality	Base Rate Per Trip Calculation				Adjusted Total Trip-End Contribution (to be used for TRCP calculations)	Current Contribution Adjusted for IPD 1 July 2009 ⁽²⁾	Household calculation		Adjusted Household Contribution (to be used for TRCP calculations)	Current Contribution Adjusted for IPD 1 July 2009 ⁽²⁾
		\$Standard-Trip-End-Contribution ⁽¹⁾	\$Local Trip-Contribution	Admin Fee-5%-Factor	Total Trip-End-Contribution (prior to application of adjustment-factor)			Trip-ends-per-Household	Prior-to-application-of-adjustment-factor Total-Household-Contribution		
10	Rural—Inner East	\$1,386 <u>\$1,712</u>	\$-	1.05	\$1,455 <u>\$1,798</u>	\$1,455	\$1,601	6.5	\$9,459 <u>\$11,684</u>	\$9,459	\$10,407
11	Burringbar	\$972 <u>\$1,186</u>	\$-	1.05	\$1,021 <u>\$1,245</u>	\$1,021	\$1,124	6.5	\$6,634 <u>\$8,094</u>	\$6,634	\$7,306
12a	Rural—Inner North	\$2,041 <u>\$2,535</u>	\$-	1.05	\$2,143 <u>\$2,662</u>	\$2,143	\$2,358	6.5	\$13,930 <u>\$17,301</u>	\$13,930	\$15,327
12b	Rural—Inner West	\$1,785 <u>\$2,124</u>	\$-	1.05	\$1,874 <u>\$2,230</u>	\$1,874	\$2,062	6.5	\$12,183 <u>\$14,496</u>	\$12,183	\$13,403
13	Rural—Other	\$2,048 <u>\$2,405</u>	\$-	1.05	\$2,150 <u>\$2,525</u>	\$2,150	\$2,366	6.5	\$13,978 <u>\$16,414</u>	\$13,978	\$15,379

Current Contribution Notes:-

- (1) The standard trip end cost from Table 6.1 was increased by 0.7% in accordance with the Council adoption report for Version 5.0 of this plan dated July 2007 to take account of an increase in the adopted Works Program of \$2,156,684 or 0.7%.
- (2) Items 4 and 8 have been further increased by the **adjustment factor** as specified in Schedule 6.
- (3) Adjusted base rate incorporating Indexation of Contribution Rates in line with the ABS Implicit Price Deflator for Non-Residential Construction, resulting in an increase of 10.04% (1 July 2009).

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Tweed Road Contribution Plan

Sector	Locality	Base Rate Per Trip Calculation				Household calculation	
		\$Standard Trip End Contribution ⁽¹⁾	\$Local Trip Contribution	Admin Fee 5% Factor	Total Trip End Contribution (prior to application of adjustment factor)	Trip ends per Household	Total Household Contribution
<u>1</u>	<u>Tweed Heads</u>	<u>\$776</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$815</u>	<u>6.5</u>	<u>\$5,299</u>
<u>2</u>	<u>Tweed Heads South</u>	<u>\$1,255</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,318</u>	<u>6.5</u>	<u>\$8,567</u>
<u>3</u>	<u>Cobaki</u>	<u>\$1,312</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,377</u>	<u>6.5</u>	<u>\$8,952</u>
<u>4</u>	<u>Bilambil Heights</u>	<u>\$2,701</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$2,836</u>	<u>6.5</u>	<u>\$18,432</u>
<u>5</u>	<u>Terranora</u>	<u>\$1,894</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,988</u>	<u>6.5</u>	<u>\$12,924</u>
<u>6</u>	<u>Kingscliff</u>	<u>\$1,082</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,137</u>	<u>6.5</u>	<u>\$7,387</u>
<u>7</u>	<u>Duranbah/Cabarita</u>	<u>\$1,090</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,145</u>	<u>6.5</u>	<u>\$7,440</u>
	<u>LAC4: Casuarina</u>	<u>\$1,090</u>	<u>\$160</u>	<u>1.05</u>	<u>\$1,313</u>	<u>6.5</u>	<u>\$8,531</u>
<u>8</u>	<u>Pottsville</u>	<u>\$1,223</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,284</u>	<u>6.5</u>	<u>\$8,345</u>
	<u>LAC3: Koala Beach/Seabreeze</u>	<u>\$1,223</u>	<u>\$65</u>	<u>1.05</u>	<u>\$1,352</u>	<u>6.5</u>	<u>\$8,791</u>
<u>9</u>	<u>Murwillumbah</u>	<u>\$1,254</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,317</u>	<u>6.5</u>	<u>\$8,562</u>
<u>10</u>	<u>Rural - Inner East</u>	<u>\$1,721</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,807</u>	<u>6.5</u>	<u>\$11,745</u>
<u>11</u>	<u>Burringbar</u>	<u>\$1,192</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$1,252</u>	<u>6.5</u>	<u>\$8,139</u>
<u>12a</u>	<u>Rural - Inner North</u>	<u>\$2,789</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$2,928</u>	<u>6.5</u>	<u>\$19,035</u>
<u>12b</u>	<u>Rural - Inner West</u>	<u>\$2,133</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$2,239</u>	<u>6.5</u>	<u>\$14,556</u>
<u>13</u>	<u>Rural - Other</u>	<u>\$2,413</u>	<u>\$ -</u>	<u>1.05</u>	<u>\$2,534</u>	<u>6.5</u>	<u>\$16,470</u>

3.6 Contribution Rates continued

3.6.2 ~~7.2~~ Heavy Haulage Contributions

The heavy haulage contribution applies to destination developments which attract heavy haulage (extractive material) traffic, for example (and without limiting the application of this section) - subdivisions, landfill, roadworks, parking areas, extractive material processing and the construction phase of development projects. In order to prevent double dipping it does not apply to source activities such as extractive industries and quarries.

$$\$Con_{TRCP - HEAVY} = Prod. \times Dist \times \$Unit$$

where:

$$\$Con_{TRCP - HEAVY} \text{ - heavy haulage contribution}$$

and

Prod. - projected demand for extractive material to be hauled to/from the site over life of project, in tonnes

Dist. - the length of the haul route on Shire roads (one way, in kms)

\$Unit - the unit cost of rehabilitating a road, as in Schedule 1

For example:

$$\begin{aligned} \$Con_{TRCP - HEAVY} &= 5,000 \text{ tonnes} \\ &\quad \times 20 \text{ kilometres} \times 5.4c \text{ per tonne per kilometre} \\ &= \$ 5,400 \end{aligned}$$

3.6.3 ~~7.3~~ Self Containment and Disputes

This Plan assumes particular land uses and traditional containment factors consistent with a wide range of urban forms, but not all situations can be pre-empted. From time to time, Council may receive development applications that do not fit with these assumptions. Council will assess these instances on the merit of the individual case.

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Tweed Road Contribution Plan

3.6 Contribution Rates continued

Council's strong preference is towards a negotiated outcome; however, in the event that an agreement can not be reached Council will commission a competent consultant, funded by the applicant to resolve the matter.

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3.7 Cash Flows~~8-CASH FLOWS~~

3.7.1 ~~8.1~~ Income

Development contributions are expected to yield \$~~241.6~~284.5 Million (Table ES 3) excluding concessions. The estimated cost of the projects in the Works Schedule is \$~~588~~305.4 Million resulting in a shortfall of \$~~64~~303.5 million which is to be funded from grants and other funding sources.

3.7.2 ~~8.2~~ Expenditure

Council will adopt a rolling 5 year Road Infrastructure Works Program based on the projects listed in the works schedule (Schedule 5) and taking into account traffic demand and the funds balance within the Plan. The 5 Year Works Program will be reviewed annually to ensure its currency

An underlying consideration in determining the Road Infrastructure Works Program is that contributions from some developments will be “in kind” for several years before ‘credit’ works are exhausted. Council must be in agreement with ‘in kind’ contributions prior to approval since ‘works contributions’ may jeopardise the financing of other Plan projects.

3.8 ~~11~~ BIBLIOGRAPHY

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SCHEDULE 1 – HEAVY HAULAGE (OF EXTRACTIVE MATERIAL)

Many of Council's urban and rural sealed roads have between 150 mm to 200 mm of gravel cover over virgin insitu material. While this is adequate for current needs, that is a projected life of 15 to 20 years, increased traffic usage or the increased percentage of heavy haulage traffic using a road significantly reduces the life of the existing pavement.

Council roads will normally require a further 200 mm of "top class" gravel to provide the additional strength for sustained heavy haulage developments. In most instances road base gravel may be added in the form of an "overlay". The existing bitumen is ripped, the additional gravel added, compacted and then sealed using 20/10 mm aggregates. Isolated weak points may be excavated or bridged with the use of "geo-textiles", but these additional costs are not generally incurred.

The Council's works cost-estimation database currently (at March 2007) uses a unit rate of \$41 per square metre for such rehabilitation to a Type D pavement. Assuming a pavement width of 10 metres (averaged over the whole shire), a typical 2-lane road would cost \$205,000 per lane-kilometre to rehabilitate.

In terms of traffic load, the life of a pavement is normally between 4×10^5 to 1×10^6 Equivalent Standard Axles (ESA's). For the purposes of this computation an average life of 7×10^5 ESA's will be assumed. The unit cost of the damage caused by heavy haulage vehicles can then be calculated as:

<i>\$Damage</i>	\$205,000 per lane-kilometre

	7×10^5 ESA's
	\$0.29 per ESA per kilometre of road traversed

Based on a standard T44 articulated vehicle (semi-trailer) with a laden weight of 30 tonne and a tare weight of 6 tonne (ie. a 24 tonne load), the pavement damage incurred by it making a return trip would be:

<i>\$Unit</i>	(3.75 ESA's + 0.75 ESA's) x \$0.29 per ESA
	\$1.30 per kilometre of the haulage route
	5.4c per tonne per kilometre of the haul route

SCHEDULE 2 – CREDIT POLICY

Extract from Council’s Tweed Development Program (at Page 30f):

“7.3.6 Credits

STRATEGY No 9

- i) Credits are not cash redeemable*
- ii) Credits are not transferable to other CP’s unless purchased by the CP so neither fund is disadvantaged*
- iii) Credits are not a commodity that may be bought and sold on the open market, they reside with the land (the person or company who is the proprietor of the development may assign credits to particular land parcels within their properties)*
- iv) Credits may only be claimed at a new site if CP works required at the new site are not compromised by Council accepting works-in-kind rather than cash*
- v) Credits are indexed in proportion to any indexations of levies or contributions*
- vi) Not all external works are eligible for s94 assistance even though others gain benefit*

Some developments require the construction of works identified in s94 Contribution Plans. In these instances Council will condition the development to build these works (s91 EPA). In addition, the consent may:

- delete any requirement to make a monetary contribution to the Contribution Plan concerned (except the administration levy). That is, Council is satisfied the development has made a sufficient contribution, works-in-kind, to the s94 works program;
- in addition to requiring the construction of the said works include a provision to pay a monetary contribution in order to fund works away from the site, needed by the development; or
- include a requirement to build works, pay contributions and a relief mechanism where the built works may be used to offset monetary contributions.

Developments may provide ‘works-in-kind’ in excess of their fair share of contribution liability. A development is said to be in ‘credit’ at this point. Council will not cash redeem any credits as outlined below because this has the potential to undermine the orderly extension of Council’s infrastructure. It will be a commercial decision upon the part of the developer whether they can fund their proposals.

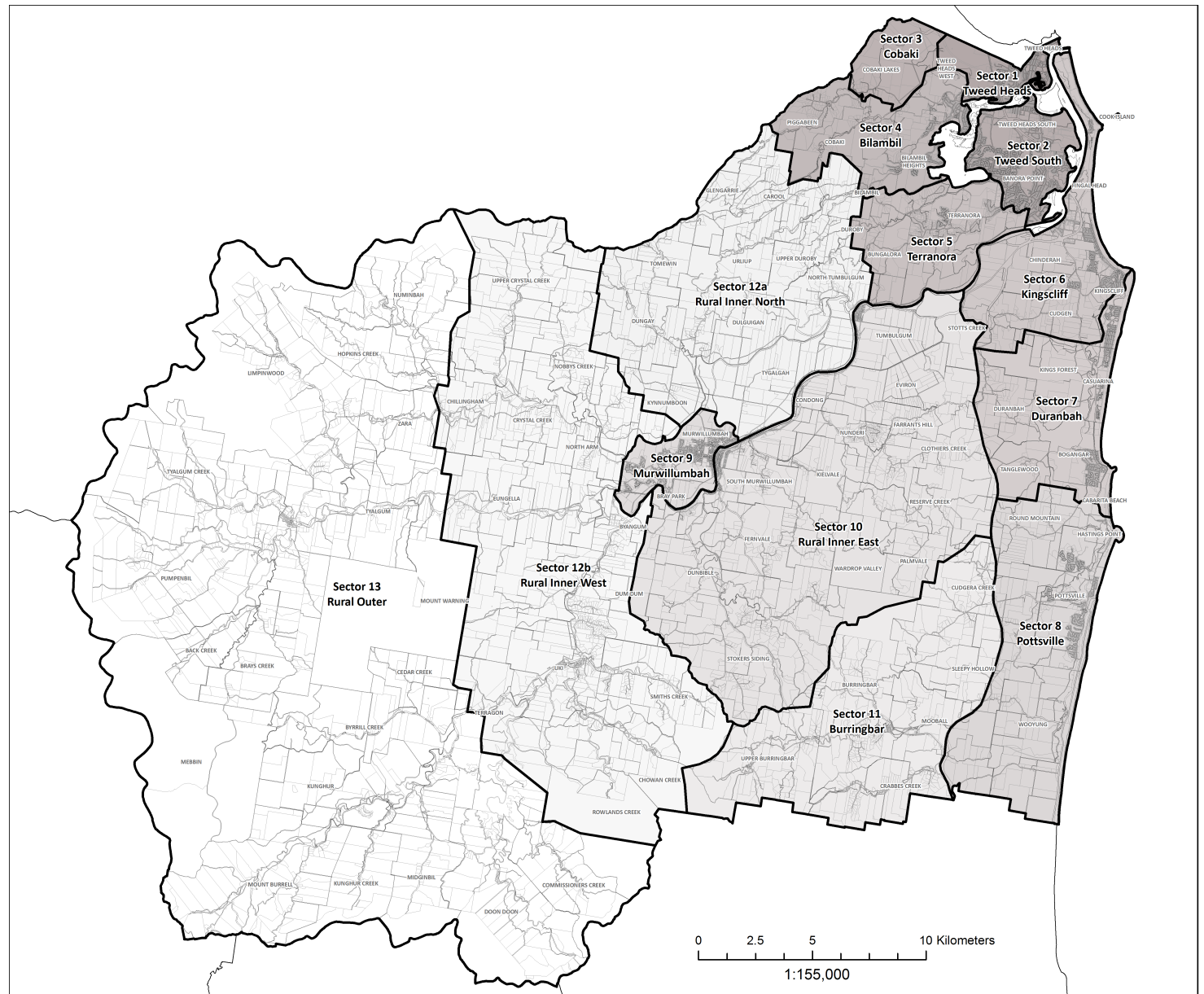
External works, those works beyond a development property, are often required to enable a development to proceed. For example, connection to Council’s infrastructure networks and local drainage catchments. The need and scale for these works are assessed as part of development application/ determination process using merit considerations outlined in s90 of EPA. Conditions of consent are then applied to a development requiring the works to be completed with the development.

The cost of these external works may be substantial and often not included in contribution plans. In recent years, the development industry has pursued and obtained more flexible zonings which allow greater variety of land uses. However, this actually restricts the opportunities for cost sharing arrangements at the local level since the nature of development is imprecise, works undefinable, and beneficiaries unknown. Consequently, the standard nexus and financial arrangements can not be satisfactorily formulated in some contribution plans

SCHEDULE 3 – BOUNDARY DEFINITIONS

Figure 3.1: Sectors

Figure 3.1 defines the boundaries of the 14 sectors to be used in determining the applicable rate of Standard Contribution.



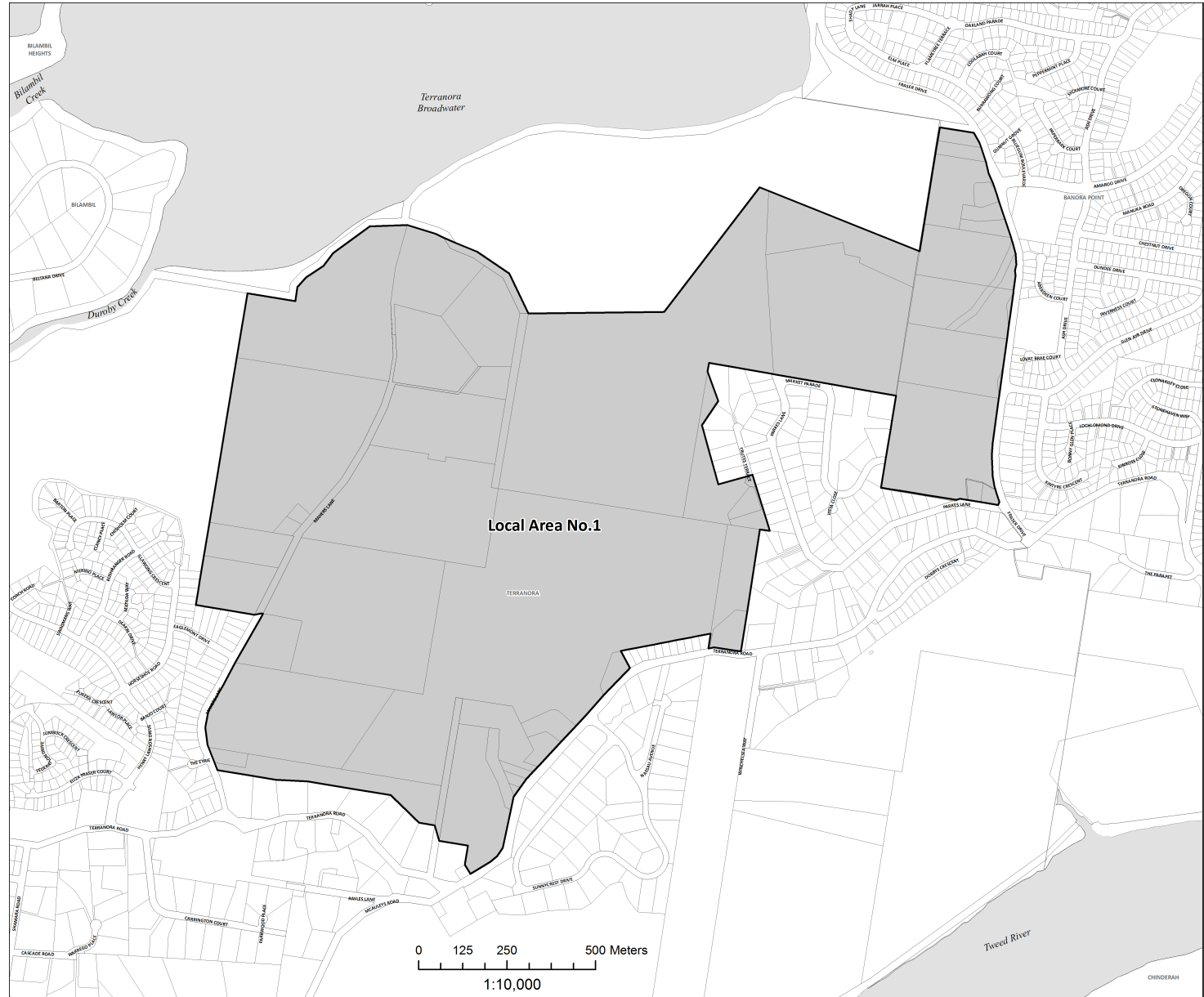
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**Figure 3.2a :
Local Area No.1**

Figure 3.2a defines the lands to which Local Area Contribution No 1 applies.

Note: LAC1 deleted in Version 6



Filename: z:\esri\planning\projects\section 94 plans\594-4_Figure 3-2a Local Area No-1.mxd

Author: J.Batchelor - Planning Reforms Unit

Date Printed: 7 October, 2009

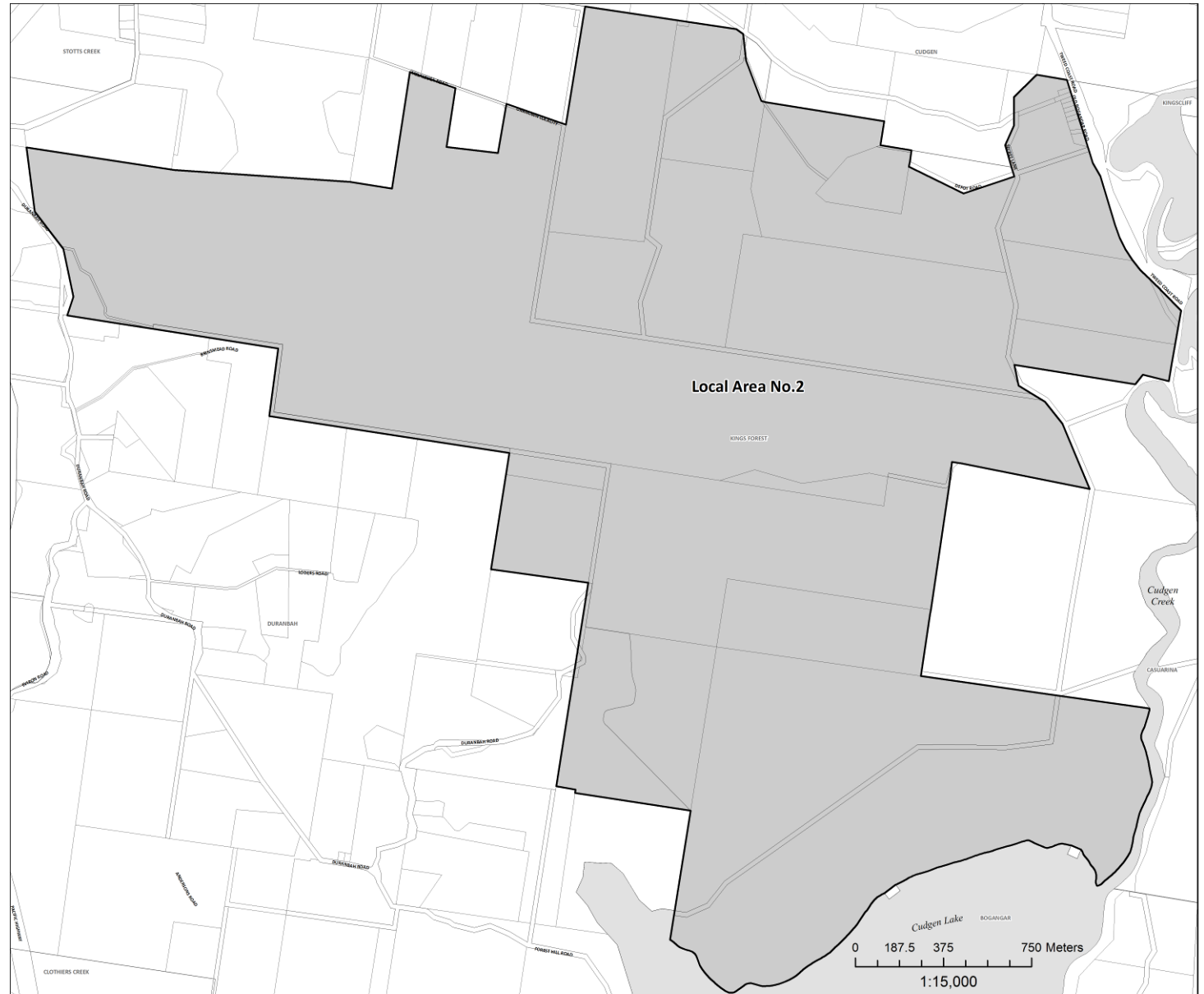
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Figure 3.2b : Local Area No.2

Figure 3.2b defines the lands to which Local Area Contribution No 2 applies.

Note: LAC2 deleted in Version 6



Filename: z:\esri\planning\projects\section 94 plans\594-4_Figure 3-2b Local Area No-2.mxd

Author: J.Batchelor - Planning Reforms Unit

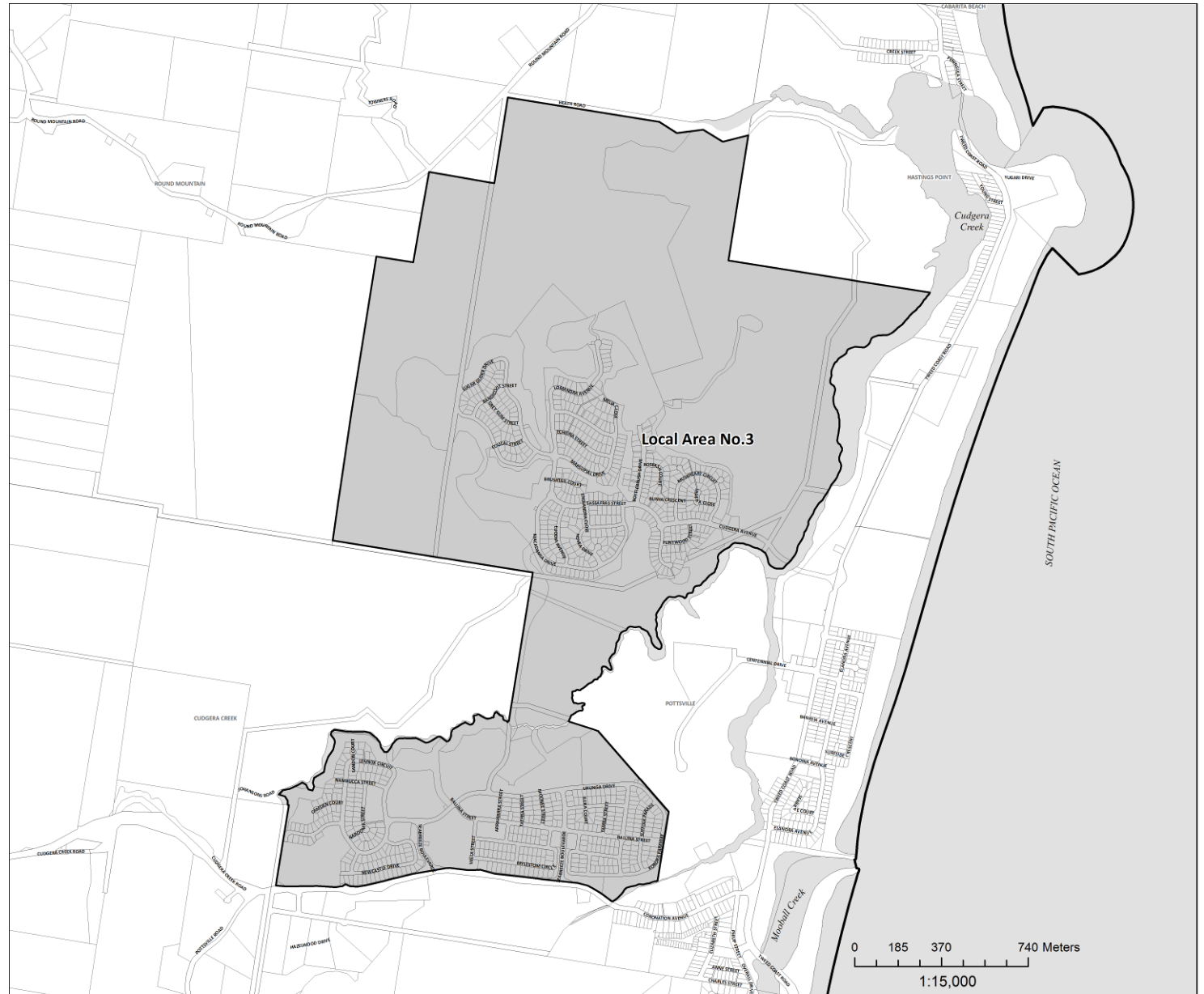
Date Printed: 7 October, 2009

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**Figure 3.2c :
Local Area No.3**

Figure 3.2c defines the lands to which Local Area Contribution No 3 applies.



Filename: z:\esri\planning\projects\section 94 plans\594-4_Figure 3-2b Local Area No-2.mxd

Author: J.Batchelor - Planning Reforms Unit

Date Printed: 7 October, 2009

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SCHEDULE 4 – VERSIONS OF THIS PLAN

VERSIONS/EDITIONS

Version	Description	Commenced
1	Council's Works Committee adopted an interim procedure for the charging of s94 LTTS (Lower Tweed Contribution Plan) roads contributions	5/12/1990
2	Council adopted an LTTS works program and schedule of levies to be charged against development	22/5/1991
3	Council adopted a formal s94 Contribution Plan for the levying of LTTS developer contributions	8/7/1993
3.1	Amendment by Council to include additional costs/works in Cobaki Lakes Development	8/9/1995
3.2	Amendment by Council to include 10% admin levy	9/12/1995
4.0	Tweed Road Contribution Plan, operational 20-6-97 all consents issued on or after that date; or 30-7-97 for all current consents (more than twelve months old) with conditions requiring Lower Tweed Transportation conditions.	20/6/1997
4.1	Repeals and replaces Version 4.0. Changes operation of heavy haulage contribution.	1/1/1999
4.2	Repeals and replaces Version 4.1. This Version of the plan amends Table 5.1(d) "Works Schedule" and Schedule 6 "TRDS Project Costings" by adding an additional item 137 for the new Local Area No. 4. <i>137 Cudgen Ck to Bogangar - 3 i/s- Kings Beach, Total Cost \$1,210,000</i>	8/8/2000
4.3	This Version of the plan amends Table 5.1(b) "Works Schedule" and Schedule 6 "TRDS Project Costings" by adding an additional item 138:- <i>138 Minjungbal Dr / Shallow Bay Dr Intersection, Total Cost \$300,000</i>	3/10/2000
4.4	provides trip generation rates for housing of older people or people with a disability (SEPP 5) and for fast food outlets.	
4.5	inserts the category of tourist resort in the trip generation table 7.1	
4.6	Version 4.6. of this plan amends Table 5.1(b) "Works Schedule" and Schedule 6 "TRDS Project Costings" by adding additional items 139 and 140:- 139 Minjungbal Dr/Machinery Dr Intersection, Total Cost \$323,000 140 Leisure Drive Upgrades (a) Upgrade Darlington Drive from Tweed Heads Bypass to Leisure Drive Total Cost: \$495,000 (b) Upgrade Leisure Drive from Darlington Drive to about 200m past Winders Place Total Cost \$510,000 (c) Upgrade Leisure Drive from Fraser Drive to Eucalyptus Drive Total Cost \$600,000	

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4.7 (draft)	amends the works programme by the addition of a new bridge over Cudgen Creek, Kingscliff (<i>this draft was abandoned</i>)	
4.8	amends Table 5.1(a) "Works Schedule" and Schedule 6 "TRDS Project Costings" by deleting item 22 and substituting existing item 23 with: "23. Const McAllisters Rd on existing alignment Total Cost \$856,300 Version 4.9, effective 19 July 2005, amends Table 5.1(b) "Works Schedule" and Schedule 6 "TRDS Project Costings" by adding items 141 and 142: "141. Shallow Bay Drive to Eastlakes Drive connection Total Cost \$341,554 142. i/s - Amber Road and Machinery Drive Total Cost \$190,147"	13/7/2004
5.0	Updates the works program and cost estimates, and adjusts sector boundaries.	20/7/2007

Version 5.0 amendments under Environmental Planning & Assessment Regulation Clause 32(3)(a)

- **5/11/2007** - Correction to typographical error corrected: Number of Trips for Sector 13 in comment should be 6.5.
- **28/4/2008** - EP&A Regulation Clause 32(3)(a) correction to typographical error corrected 28/4/2008 local area trip cost Pottsville (Leisure Gardens and Koala Beach).

Sector	Locality	Standard Contribution	Adjusted Standard Contribution	Local Contribution	Total Contribution	Adjusted Total Contribution
8	Pottsville	\$ 6,470*	\$ 6,647	\$ -	\$ 6,470*	\$ 6,647
	LAC3: Koala Beach /Leisure Gardens	\$ 6,470*	\$ 6,647	\$ -1,293 \$513	\$ -7,767* \$7,007	\$ -7,940 \$7,182

- **28/10/2008** - Indexation of Contribution Rates in line with the ABS Implicit Price Deflator for Non-Residential Construction, resulting in an increase of 7.15%:

Index	Index Date	Rate	Released ABS	Rate date	% increase
IPD (Non-Residential Construction)	Mar-07	109.85	July 2007	20-Jul-07	
	Jun-08	117.70	October 2008	20-Oct-08	7.15%

Sector	Locality	Base Rate Calculation			Total Trip End Contribution		Trip ends per Household	Household Contribution	
		Standard Trip End Contribution	Local Trip Contribution	Admin Fee 5%	Base Rate	Adjusted for IPD		Base Rate	Adjusted for IPD
1	Tweed Heads	\$568	\$ -	1.05	\$596	\$639	6.5	\$3,877	\$4,154
2	Tweed Heads South	\$811	\$ -	1.05	\$851	\$912	6.5	\$5,535	\$5,931
3	Cobaki	\$865*	\$ -	1.05	\$908	\$973	6.5	\$5,904	\$6,326
4	Bilambil Heights	\$1,603*	\$ -	1.05	\$1,677	\$1,797	6.5	\$11,679	\$12,514
5	Terranora	\$1,322	\$ -	1.05	\$1,388	\$1,487	6.5	\$9,023	\$9,668

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Sector	Locality	Base Rate Calculation			Total Trip End Contribution		Trip ends per Household	Household Contribution	
		Standard Trip End Contribution	Local Trip Contribution	Admin Fee 5%	Base Rate	Adjusted for IPD		Base Rate	Adjusted for IPD
	LAC1: 'Area E'	\$1,322	\$479	1.05	\$1,891	\$2,026	6.5	\$12,292	\$13,170
6	Kingscliff	\$745	\$ -	1.05	\$782	\$838	6.5	\$5,085	\$5,448
7	Duranbah/Cabarita	\$827	\$ -	1.05	\$868	\$930	6.5	\$5,644	\$6,047
	LAC2: Kings Forest Development	\$827	\$343	1.05	\$1,228	\$1,316	6.5	\$7,985	\$8,556
	LAC4: Casuarina	\$827	\$137	1.05	\$1,012	\$1,084	6.5	\$6,579	\$7,049
8	Pottsville	\$974*	\$ -	1.05	\$995	\$1,066	6.5	\$6,470	\$6,932
	LAC3: Koala Beach/Seabreeze	\$974*	\$79	1.05	\$1,078	\$1,155	6.5	\$7,007	\$7,508
9	Murwillumbah	\$1,010	\$ -	1.05	\$1,060	\$1,136	6.5	\$6,893	\$7,386
10	Rural - Inner East	\$1,386	\$ -	1.05	\$1,455	\$1,559	6.5	\$9,459	\$10,135
11	Burringbar	\$972	\$ -	1.05	\$1,021	\$1,094	6.5	\$6,634	\$7,108
12a	Rural - Inner North	\$2,041	\$ -	1.05	\$2,143	\$2,296	6.5	\$13,930	\$14,925
12b	Rural - Inner West	\$1,785	\$ -	1.05	\$1,874	\$2,008	6.5	\$12,183	\$13,054
13	Rural - Other	\$2,048	\$ -	1.05	\$2,150	\$2,304	6.5	\$13,978	\$14,977

Version 5.1, effective 4 February 2009

- Amends the works program by the addition of the four-laning of Kennedy Drive between Rose Street and Cobaki Bridge.
- Amends typographical discrepancies between contribution tables in the plan to reflect figures in the table below:

Sector	Locality	Base Rate Calculation			Total Trip End Contribution			Trip ends per Household	Household Contribution		
		Standard Trip End Contribution	Local Trip Contribution	Admin Fee 5%	Base Rate	Adjusted Total Trip End	Adjusted for IPD		Base Rate	Adjusted Total Per Lot	Adjusted for IPD
4	Bilambil Heights	\$1,603*	\$ -	1.05	\$1,677	\$4,683	\$1,781	6.5	\$10,764	\$10,940	\$11,577
		\$1,577			\$1,656	\$4,797	\$11,679		\$10,803	\$12,544	
8	Pottsville	\$974*	\$ -	1.05	\$995	\$1,022	\$1,066	6.5	\$6,470	\$6,647	\$6,932
	LAC3: Koala Beach/Seabreeze	\$974*	\$79	1.05	\$1,078	\$1,105	\$1,155	6.5	\$7,007	\$7,182	\$7,508

- Inserts equations required to calculate the modification factor for a shop (Table 7.2)
- Items 9,10 and 11 of Table 7.1 have been amended to include Shops with a GLA of 100m², 6,000 m² and 10,000m².

9	Shopping Centre	40+100 m ² < SC < 6,000m ²	200 + 0.8 (A)	A = m ² GLA
10	Shopping Centre	6,00+6,000 m ² < SC < 10,000m ²	500 + 0.75 (A)	A = m ² GLA
11	Shopping Centre	= 10,00+10m ²	3200 + 0.48 (A)	A = m ² GLA

- Moves 'adjustment factor' calculation details from the body of the Plan into a new schedule, Schedule 6.

Version 5.1.1, effective 1 July 2009

Indexation of base rates in line with the ABS IPD: Indexation of Contribution Rates in line with the ABS Implicit Price Deflator for Non-Residential Construction has been applied to the base rates, resulting in an increase of 10.04% on 1 July 2009:

Index	Index Date	Rate	Released ABS	Rate date	% increase
IPD (Non-Residential Construction)	Mar-07	100.95	Jul-07	20-Jul-07	
	Dec-08	111.09	Apr-09	01-Jul-09	10.04%

Note that in accordance with Regulation 32(3) of the Environmental Planning and Assessment Regulations, adjustment of rates in line with indexation adopted by the plan (Section 9.2) does not require the preparation of a new contribution plan for exhibition.

Version 5.2 (this version) effective 23 December 2009

- Inserts wording to enable application of TRCP S94 Development Levy on Complying Development Certificates (See Section 9.5 and Schedule 7).
- Reorganises ~~Table 3.6.1A - Trip Generation Rates by Land Use~~ ~~Table 7.1 - Trip Generation Rates by Land Use~~ by subheadings to coincide with development types in SEPP (Exempt and Complying Development Codes) 2009 and the standard LEP template. Provides an additional note requiring a traffic study where traffic generation rates depart from prescriptive rates in Table 7.1.
- Updates the Sector and Local Area maps.
- Fixes minor calculation discrepancy between indexed trip rate and ET rate (6.5 trips). This will not affect charges as applied to development consents as these are all currently calculated using the per trip value which is correct.
- Extends the concession for employment generating development.
- Clarifies consideration of material public benefit in Clause 9.3.1

Version 6.0 (this version) effective XXXXX

- Adopt standard format, resulting in significant reorganisation of plan sections;
- Update works program (Schedule 5) based on contemporary planning strategies and development patterns;
- Update cost of works program items based on current unit rates;
- Apply contingencies to conceptual works estimates in accordance with RTA Project Estimating Manual (Schedule 8)
- Delete LAC 1 and LAC 2;
- Update plan to reflect adoption of Tweed Community Strategic Plan, Local Growth Management Strategies, and progress with draft Tweed LEP 2010 and draft Tweed Heads Masterplan;

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- Adjustment factor deleted for Sectors 4 and 8 (Schedule 6).
- Amend Eligible Business Enterprise clause.

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SCHEDULE 5 – WORKS SCHEDULE

[Refer to attached spreadsheet](#)

DRAFT

SCHEDULE 6 – ADJUSTMENT FACTOR

Deleted in Version 6.

~~A number of older development consents with conditions requiring TRCP No4 contributions were paid after commencement of exhibition of Draft Version 5 of this plan and prior to adoption of Version 5, at Version 4.9 rates. Contribution Rates for these sectors were amended by applying an “adjustment Factor” calculated as follows for each of sectors 3*, 4 & 8:~~

~~Old = Aggregate \$ value of TRCP standard payments made in the sector between 11 April 2007 and the effective starting date of Version 5 of this plan~~

~~New = Aggregate \$ value of TRCP standard payments made in the sector between 11 April 2007 and the effective starting date of Version 5 of this plan if these payments had been made at Version 5 rates.~~

~~“Adjustment factor” = 1 + { (New – Old)/remaining trip ends to be generated in the sector / \$standard trip end cost version 5}~~

~~The Adjustment factor was calculated at and become effective at the date of Version 5 becoming effective (20 July 2007).~~

~~The adjustment factor will only be calculated using payments made under version 4.9 if the consent is over 5 years old (issued before 11 April 2002).~~

Adjustment factor as calculated on 20 July 2007:

Sector	Adjustment Factor
3*	-
4	1.004
8	1.028

~~* When Version 5 was adopted on 20 July 2007, no payments had been made for Sector 3 and therefore no adjustment was required for this sector.~~

SCHEDULE 7 – COMPLYING DEVELOPMENT CERTIFICATES

Contributions will be levied according to the estimated increase in demand. In assessing the contribution of proposed development, the following calculation shall be used:

STEP 1 – CALCULATE THE CHARGEABLE TRIPS:

For commercial and industrial development:

(Gross Leasable Area proposed / Unit) x Daily Trip Rate = total trips

Total Trips – credit = chargeable trips

For Dwellings:

(Trip Rate x total household units existing and proposed) = total trips

Total Trips – credit (one ET credit (6.5 daily trip rate) for an established lot and credit for any other existing on-site dwellings according to the daily trip rate applicable to continuing/ existing dwelling type) = chargeable trips

STEP 2 – CALCULATE THE CONTRIBUTION:

= chargeable trips x unit charge amount

Notes:

Credit

A credit amount equivalent to the contribution attributable to any continuing (or approved) development on the site of a proposed new development will be allowed for in the calculation of contributions. The credit is equal to the total trips already paid for as evidenced in a previous development consent. Where a development consent does not exist for a continuing development, or the total trips charged for can not be determined, they shall be determined by calculating the current chargeable trips based on existing gross leasable area or existing households / lot.

Unit charge amount - Is specified in Table 1.1 on page 1.

Daily trip rates - Are specified in **Table 3.6.1A - Trip Generation Rates by Land Use** on page 30.

Units - Are specified in **Table 3.6.1A - Trip Generation Rates by Land Use** on page 30.

Sectors - Are specified in

Figure 3.1: Sectors on page 42 and Figures 3.2a-d.

Concessions

Concessions for employment generating commercial development are applicable to calculations above in accordance with the TRCP plan (refer **Concessions** on page 15).

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Council Assistance

Should a certifying authority choose not to calculate contributions, Council officers are able to undertake calculations at the cost of Council's Enquiry Fee.

Any application which proposes to waive this contribution under the terms of the eligible business enterprise concession must contact Council's Development Assessment Unit for contribution calculation and ultimate approval to apply the concession by Council's Director Planning and Regulation. This will be undertaken at the cost of Council's Enquiry Fee.

Contribution Fee Sheet

The certifying authority shall attach to the complying development certificate, a fee sheet which details calculations (including ET / trip rate and credit) undertaken to determine the applicable contributions.

The contribution fee sheet should use a format showing all of the details in the table below:

S94 Plan	Sector	Trips	ETs	Credit(ETs)	Rate per Trip/ET	Total \$
S94 Plan No 4	Xxx	Xxx	Xxx	Xxx	Xxx	\$xxx

Condition Template

The condition must be imposed in the following format:

<p># <u>Section 94 Contributions</u></p> <p>Payment of the following contributions pursuant to Section 94 of the Act and the relevant Section 94 Plan.</p> <p>The complying development shall NOT commence unless all Section 94 Contributions have been paid.</p> <p>A CURRENT COPY OF THE CONTRIBUTION FEE SHEET ATTACHED TO THIS COMPLYING DEVELOPMENT CERTIFICATE <u>MUST</u> BE PROVIDED AT THE TIME OF PAYMENT.</p> <p>These charges include indexation provided for in the S94 Plan and will remain fixed for a period of 12 months from the date of this consent and thereafter in accordance with the rates applicable in the current version/edition of the relevant Section 94 Plan current at the time of the payment.</p> <p>A copy of the Section 94 contribution plans may be inspected at the Civic and Cultural Centres, Tumbulgum Road, Murwillumbah and Brett Street, Tweed Heads.</p> <p>« Tweed Road Contribution Plan:</p> <p>6.5 Trips @ \$xxxx per Trip \$xxxx</p> <p>S94 Plan No. 4</p> <p>Sector xxxx</p>
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SCHEDULE 8 – CONTINGENCIES FOR ROAD ESTIMATES

When preparing strategic estimates for major road infrastructure projects, Tweed Shire Council has adopted the NSW Roads and Traffic Authority’s Project Estimating Manual (Version 2.0, March 2008) as the basis for contingency allowances. The following schedule is reproduced from the Manual, and is used as the basis for calculating appropriate contingencies taking into account the level of risk or uncertainty associated with the strategic estimates. Calculations for road components of the works program are provided in the body of the contribution plan.

Road projects that have progressed beyond the strategic design stage generally utilise lower contingencies of 15%.

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19.2 Appendix B – Contingency for strategic estimates

Contingency for Strategic Estimates that have been derived using TYPICAL rates such as the ones indicated below should be in the range of 40-70% depending on the confidence and reliability of the of the information used in preparing the estimate. Please note that the estimating manual recommends a range of 35-70%, the 35-40% should be used only if the project has been advanced to concept but for some reason is titled strategic.

One way to derive a contingency % is by testing the reliability and confidence there is in different aspects of the information used to generate the estimate:

Task/activity	Comments	Highly confident and reliable	Reasonably confident and reliable	Not confident and not reliable	Contingency
Project scope	<ul style="list-style-type: none"> • Is it well defined? No↑Yes↓ • Is there room to vary the works? No↓Yes↑ • Are there many options? No↓Yes↑ 	9%	12%	15%	
Risks	<ul style="list-style-type: none"> • Are there significant risks with this Project? No↓Yes↑ <ul style="list-style-type: none"> ◆ Political ◆ Community ◆ Technical ◆ Financial • Has a detailed risk analysis been undertaken? No↑Yes↓ 	9%	12%	15%	
Constructability	<ul style="list-style-type: none"> • Has a constructability review been under taken? No↑Yes↓ • Is constructability a problem? No↓Yes↑ 	6%	8%	10%	

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Task/activity	Comments	Highly confident and reliable	Reasonably confident and reliable	Not confident and not reliable	Contingency
Key dates	<ul style="list-style-type: none"> • Are the Projects dates known? No↑Yes↓ • Is the project planned for the distant future? No↓Yes↑ 	3%	4%	5%	
Information	<ul style="list-style-type: none"> • Has any investigation been undertaken (include desk top studies)? No↑Yes↓ <ul style="list-style-type: none"> ◆ Geotechnical ◆ Heritage ◆ Environmental ◆ Technical ◆ Hydraulic 	9%	12%	15%	
Length of the project	<ul style="list-style-type: none"> • Is the project short? No↓Yes↑ • <1km - short project • >25km - long project 	4%	7%	10%	
Total:					

Notes:

- No↓ denotes that if the answer is No, decrease contingency.
- No↑ denotes that if the answer is No, increase contingency.
- Yes↑ denotes that if the answer is Yes, increase contingency.
- Yes↓ denotes that if the answer is Yes, decrease contingency.

If it is required to project the prices into the future, use an escalation factor:

- During construction, adopt a 6% per year linear escalation.
- For time frames of 0-5 years into the future, adopt a 10% per year linear escalation prior to construction.
- For time frames in excess of 5 years into the future, adopt a 15% per year linear escalation prior to construction.



Customer Service | 1300 292 872 | (02) 6670 2400

tsc@tweed.nsw.gov.au
www.tweed.nsw.gov.au

Fax (02) 6670 2429
PO Box 816
Murwillumbah NSW 2484