



COFFS HARBOUR CITY COUNCIL

ORDINARY MEETING

(ENGINEERING COMMITTEE)

**COUNCIL CHAMBER
COUNCIL ADMINISTRATION BUILDING
COFF AND CASTLE STREETS, COFFS HARBOUR**

20 MARCH 2003

**Commencing at the conclusion of the
Planning, Environment & Development Committee**

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	CONFIDENTIAL ITEM	
	The following item either in whole or in part may be considered in Closed Meeting for the reasons stated:	
	A portion of this report is confidential for the reason of Section 10A (2):	
	(d) commercial information of a confidential nature that would, if disclosed:	
	(i) prejudice the commercial position of the person who supplied it, or	
	(ii) confer a commercial advantage on a competitor of the council, or	
	(iii) reveal a trade secret.	
	and in accordance with Section 10A (1) the meeting may be closed to the public.	
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COFFS HARBOUR CITY COUNCIL

ORDINARY MEETING

(ENGINEERING COMMITTEE)

20 MARCH 2003

Mayor and Councillors

ENGINEERING DEPARTMENT REPORTS

15 TRAFFIC COMMITTEE MEETING 2/2003

Purpose:

To confirm minutes from the Traffic Committee Meeting held on 11 March, 2003.

Recommendation:

T.8 – Howard Lane, Coffs Harbour – Traffic Problems (5009870 [499557])

That existing traffic signposting be reviewed and that NSW Police be requested to carry out random monitoring.

T.9 – Market Street, Coffs Harbour – Parking Restrictions (505210 [489337])

That the 2 hour parking restrictions in Market Street be removed.

T.10 – Little Street, Coffs Harbour - Disabled Parking (505060 [659259])

That one (1) disabled parking space be allocated and signposted in Little Street as per Plan No. T10.

T.11 – West High Street / King Street, Coffs Harbour - Parking Restrictions (5059970 [500148])

That the 'No Stopping' zone be closed to traffic through the installation of kerbing as per Plan No. T.11.

15 - Traffic Committee Meeting 2/2003 (Cont.)

T.12 – Laneways adjacent Vincent Street, Coffs Harbour - Parking Problems (P/N 1395600 [448530])

That 'No Parking' signs be installed adjacent to No. 4 Vincent Street, Coffs Harbour as per Plan No. T12.

T.13 – Graham Drive, Sandy Beach - Temporary Truck Stop (506540 [496541])

That 'Bus Zone' signposting be installed in the existing bus bay areas in Graham Drive, Sandy Beach as per Plan No. T13.

T.14 – Pitt Square/Peterson Road, Coffs Harbour - Traffic Dome (505740 / 500740)

That a traffic dome be installed at the intersection of Pit Square and Peterson Road as per Plan No. T14.

T.15 – Anzac March, Coffs Harbour - 25 April 2003 (1618 / 504620 [497616])

That:

1. The following temporary road closures associated with the Coffs Harbour Anzac March to be held on Friday 25 April 2003, from 9:00am, be advertised and providing no substantive objections are received, the following temporary closures be approved with the following conditions:-
 - Park Avenue (between Gordon and Earl Streets)
 - Gordon Street (Park Avenue to Vernon Street)
 - Vernon Street (from Pacific Highway to Gordon Street)
2. A traffic control plan to be submitted for this event. This should include details of all traffic signs, barricades and traffic controllers required for this event.

T.16 – Anzac March, Sawtell - 25 April 2003 (1618 / 501520 [497729])

That:-

1. The following temporary road closures associated with the Sawtell Anzac March to be held on Friday, 25 April 2003, between the hours of 10.00am and 11:30am be advertised and providing no substantive objections are received, the temporary closures be approved with the following conditions.
 - ♦ First Avenue, (Second Avenue to Boronia Street.
 - ♦ Second Avenue, (First Avenue to Fourth Avenue.
 - ♦ Fourth Avenue, (Second Avenue to East Street.
2. A traffic control plan to be submitted for this event. This should include details of all traffic signs, barricades and traffic controllers required for this event.

15 - Traffic Committee Meeting 2/2003 (Cont.)

T.17 – Harbour Drive, Jetty Strip – Taxi Rank [504780]

That the bus bay adjacent the Jetty Strip be designated a taxi zone between the hours of 8.00pm – 6.00 am as per Plan No. T17.

T.18 – Cavanba Road Bus Zone, Toormina [501250]

That a bus zone be designated between the hours of 2.45pm – 3.00pm on Cavanba Road as per Plan No. T18.

Attachments:

**COFFS HARBOUR CITY COUNCIL
TRAFFIC COMMITTEE MINUTES 2/2003
11 MARCH 2003 - 11.00AM**

Present: Cr Bill Palmer, Coffs Harbour City Council
Andrew Fowler, Police Traffic Branch
Peter West, Coffs District Taxi Cab Network
Jenny Tooth, Ryans Bus Service
George Stulle, Coffs Harbour City Council
Anne Shearer, Coffs Harbour City Council
Di Ericson, Secretary

Apologies: Graham Carthew, Roads and Traffic Authority

T.8 – Howard Lane, Coffs Harbour – Traffic Problems (5009870 [499557])

Consideration was given to a request for traffic calming devices and a 'Go Back-You are Going the Wrong Way' sign to be installed in Howard Lane, Coffs Harbour.

Recommended that existing traffic signposting be reviewed and that NSW Police be requested to carryout random monitoring.

Reason:

Additional signposting or traffic calming would be ineffective in deterring local traffic from short-cutting to Victoria Street.

T.9 – Market Street, Coffs Harbour – Parking Restrictions (505210 [489337])

Consideration was given to a request to remove the parking restrictions in Market Street, Coffs Harbour, to allow for all day parking.

Recommended that the 2 hour parking restrictions in Market Street be removed.

Reason:

The area is under-utilised for short-term parking.

T.10 – Little Street, Coffs Harbour - Disabled Parking (505060 [659259])

Consideration was given to a request to install disabled parking in Little Street, Coffs Harbour.

Recommended that one (1) disabled parking space be allocated and signposted in Little Street as per Plan No. T10.

T.11 – West High Street / King Street, Coffs Harbour - Parking Restrictions (5059970 [500148])

Consideration was given to a request to changing the 'No Stopping' zone in West High Street, Coffs Harbour, opposite the General Store, near the intersection of Robin Street, as cars are parking and obstructing vision to the pedestrian crossing at this intersection.

Recommended that the 'No Stopping' zone be closed to traffic through the installation of kerbing as per Plan No. T.11.

Reason:

The approach to the marked crossing needs to be kept clear of vehicles.

T.12 – Laneways adjacent Vincent Street, Coffs Harbour - Parking Problems (P/N 1395600 [448530])

Consideration was given to a concern regarding traffic volumes in laneways adjacent No. 4 Vincent Street, Coffs Harbour, where entry to and egress from the garages of the townhouses is dangerous.

Recommended that 'No Parking' signs be installed adjacent to No. 4 Vincent Street, Coffs Harbour as per Plan No. T12.

Reason:

To ensure unrestricted access is available to properties adjacent the laneway.

T.13 – Graham Drive, Sandy Beach - Temporary Truck Stop (506540 [496541])

Consideration was given to the installation of bus zones in Graham Drive, Sandy Beach, to deter trucks using this road as a temporary truck stop.

Recommended that 'Bus Zone' signposting be installed in the existing bus bay areas in Graham Drive, Sandy Beach as per Plan No. T13.

Reason:

To deter heavy vehicles from long-term parking in the area.

T.14 – Pitt Square/Peterson Road, Coffs Harbour - Traffic Dome (505740 / 500740)

Consideration was given to the installation of a traffic dome at the intersection of Pitt Square and Peterson Road, Coffs Harbour.

Recommended that a traffic dome be installed at the intersection of Pitt Square and Peterson Road as per Plan No. T14.

Reason:

To deter vehicles from cutting the corner at this intersection.

T.15 – Anzac March, Coffs Harbour - 25 April 2003 (1618 / 504620 [497616])

Consideration to an application for the temporary closures of the following streets on Friday, 25 April 2003, from 9.00am for the purpose of holding the Anzac Day march in Coffs Harbour.

- Park Avenue (between Gordon and Earl Streets)
- Gordon Street (Park Avenue to Vernon Street)
- Vernon Street (from Gordon Street to Pacific Highway)

Recommended: that:

1. **The following temporary road closures associated with the Coffs Harbour Anzac March to be held on Friday 25 April 2003, from 9:00am, be advertised and providing no substantive objections are received, the following temporary closures be approved with the following conditions:-**
 - **Park Avenue (between Gordon and Earl Streets)**
 - **Gordon Street (Park Avenue to Vernon Street)**
 - **Vernon Street (from Pacific Highway to Gordon Street)**
 2. **A traffic control plan to be submitted for this event. This should include details of all traffic signs, barricades and traffic controllers required for this event.**
-

T.16 – Anzac March, Sawtell - 25 April 2003 (1618 / 501520 [497729])

Consideration to the temporary road closures of the following streets on Friday, 25 April 2003, between the hours of 10.00am and 11.30am, for the purpose of holding the Anzac Day march in Sawtell.

- First Avenue (Second Avenue to Boronia Street)
- Second Avenue (First Avenue to Fourth Avenue)
- Fourth Avenue (Second Avenue to East Street)

Recommended: that:-

- 1. The following temporary road closures associated with the Sawtell Anzac March to be held on Friday, 25 April 2003, between the hours of 10.00am and 11:30am be advertised and providing no substantive objections are received, the temporary closures be approved with the following conditions.**
 - ♦ First Avenue, (Second Avenue to Boronia Street.
 - ♦ Second Avenue, (First Avenue to Fourth Avenue.
 - ♦ Fourth Avenue, (Second Avenue to East Street.
- 2. A traffic control plan to be submitted for this event. This should include details of all traffic signs, barricades and traffic controllers required for this event.**

T.17 – Harbour Drive, Jetty Strip – Taxi Rank [504780]

Consideration of a request for additional taxi rank facilities to serve the Harbour Drive, Jetty Strip.

Recommend that the bus bay adjacent the Jetty Strip be designated a taxi zone between the hours of 8.00pm – 6.00 am as per Plan No. T17.

Reason:

To provide additional taxi rank facilities in Harbour Drive, Coffs Harbour.

T.18 – Cavanba Road Bus Zone, Toormina [501250]

Consider a request for an additional bus zone on Cavanba Road to serve Toormina Public School.

Recommended that a bus zone be designated between the hours of 2.45pm – 3.00pm on Cavanba Road as per Plan No. T18.

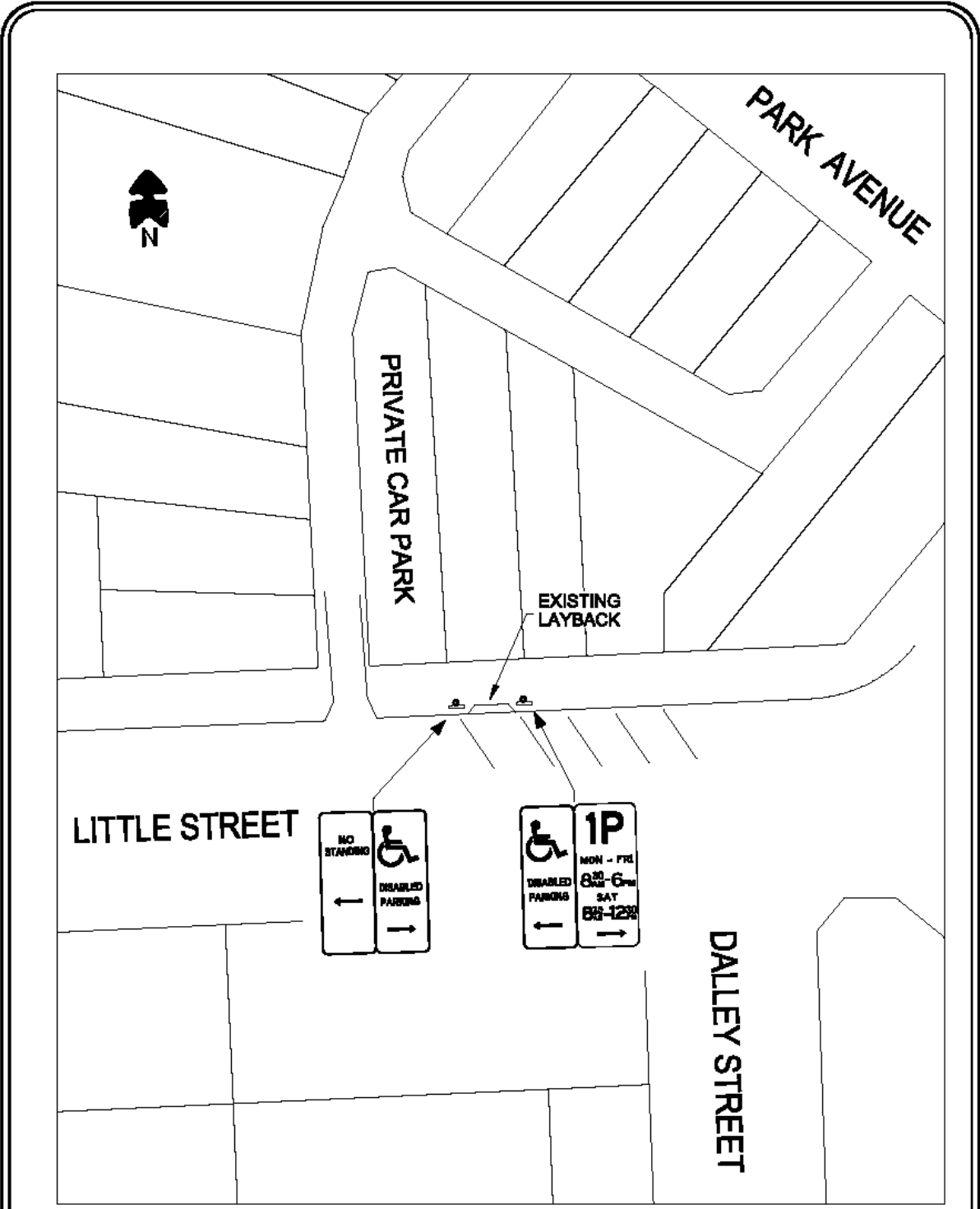
Reason:

To provide safe pick-up facilities for school buses servicing Toormina Public School.

NEXT MEETING:

The next Traffic Committee meeting will be held on 1 April 2003.

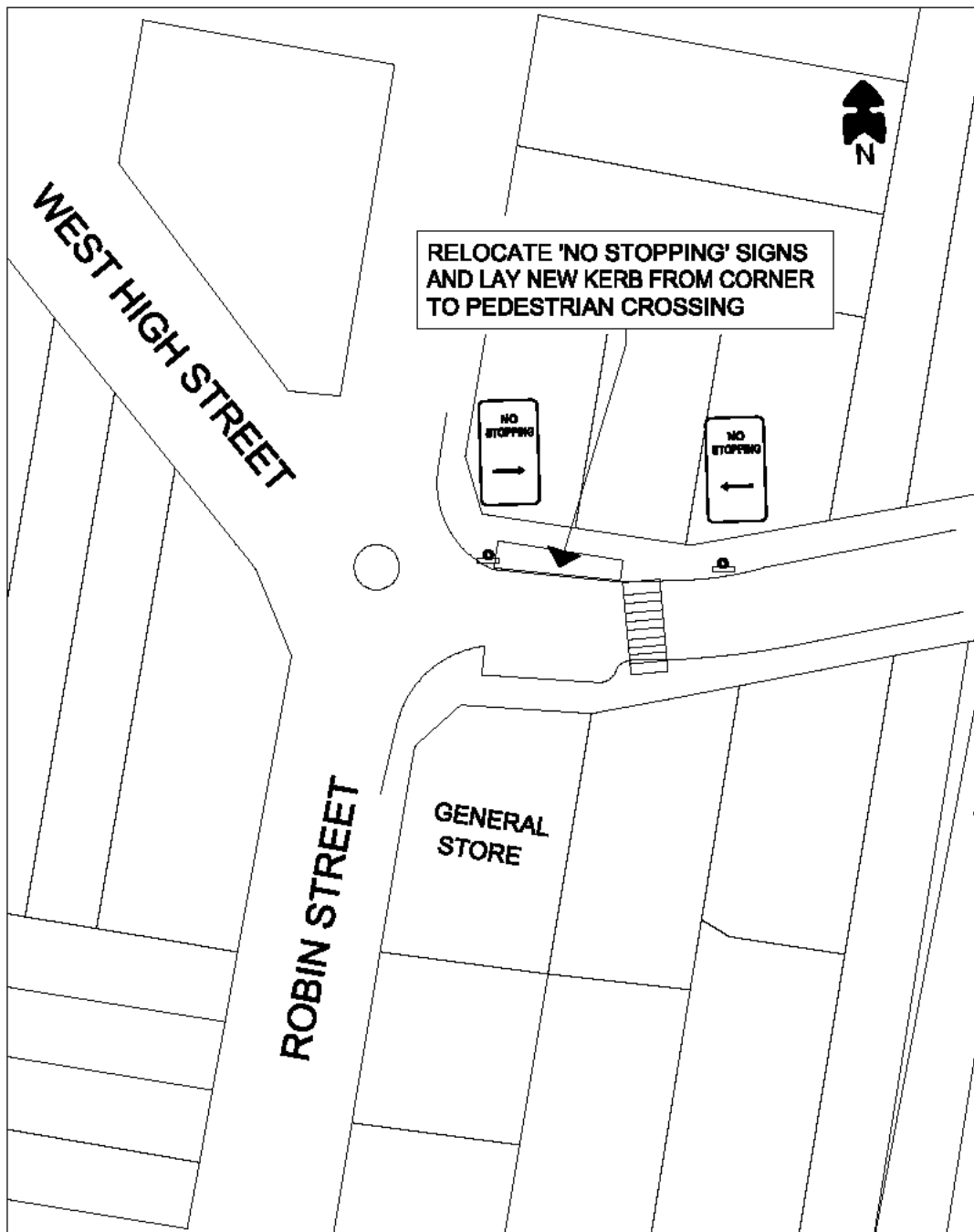
There being no further business the meeting closed at 12.00 midday.



PLAN VIEW

INSTALL 'DISABLED PARKING' SIGN IN LITTLE STREET ON NORTH SIDE ADJACENT LANEWAY AND MARK PAVEMENT

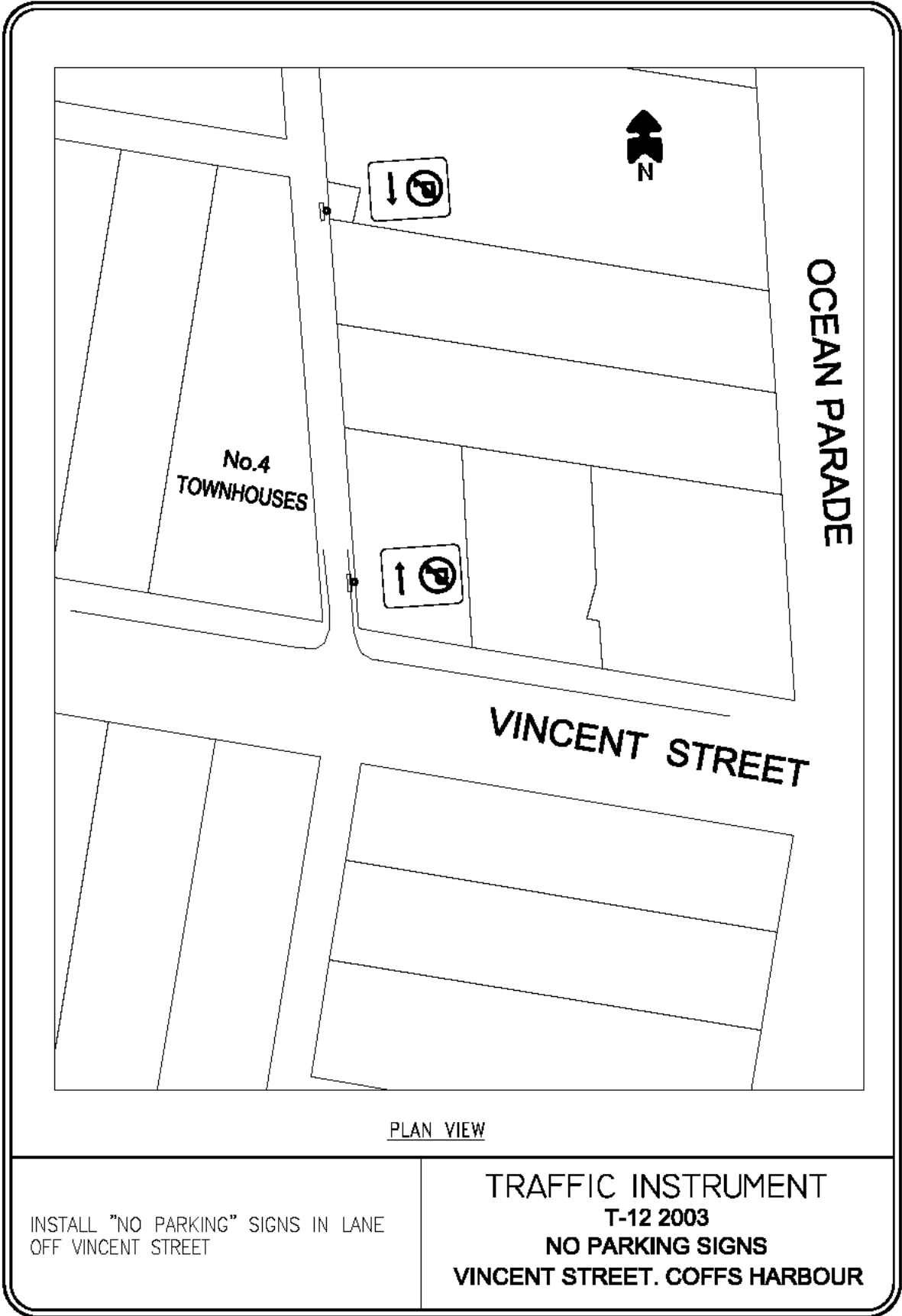
**TRAFFIC INSTRUMENT
T-10 2003
DISABLED PARKING SIGN
LITTLE STREET. COFFS HARBOUR**



PLAN VIEW

EXISTING 'NO STOPPING' ZONE TO BE CLOSED TO TRAFFIC BY THE INSTALLATION OF NEW RESTRICTIVE KERBING

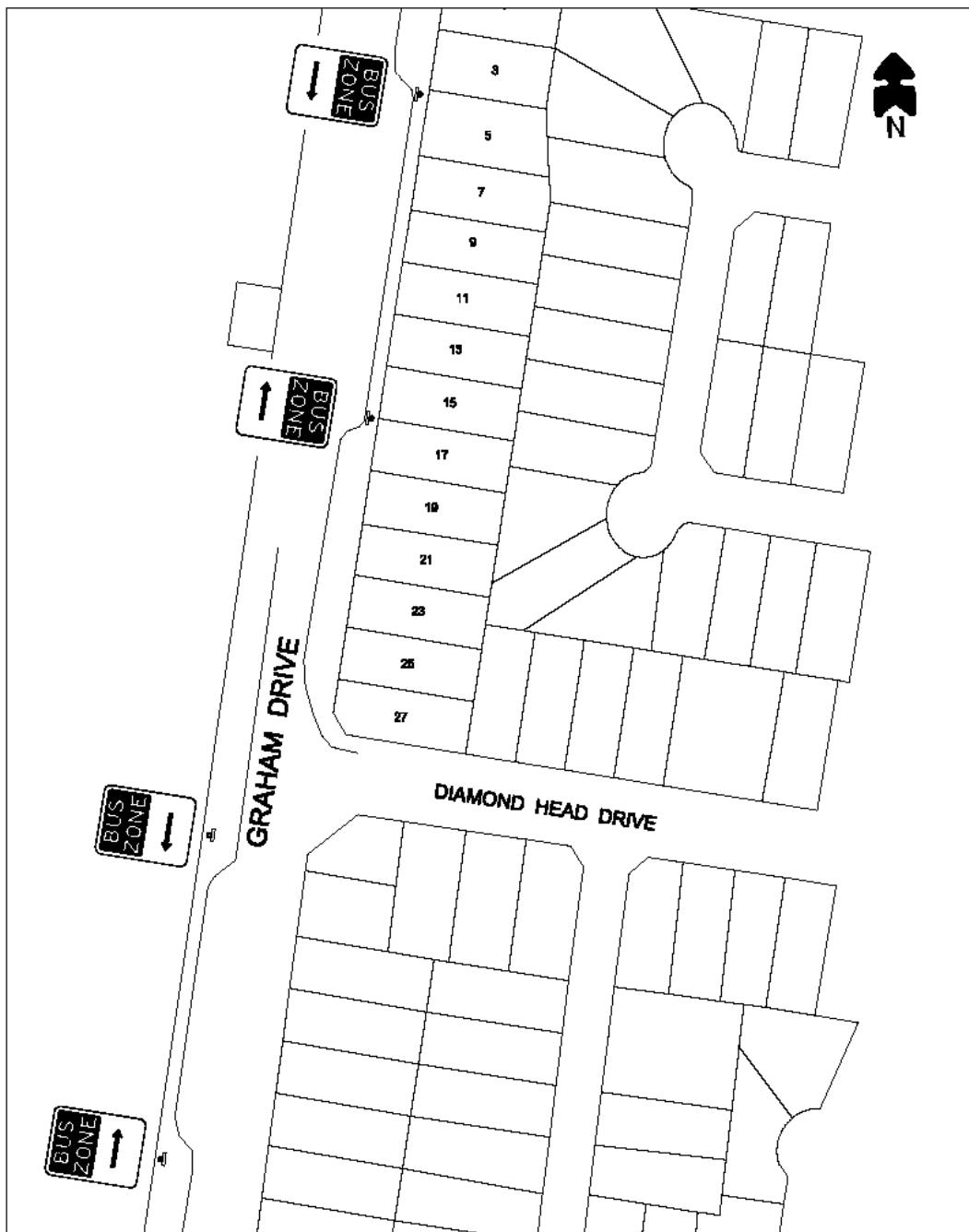
**TRAFFIC INSTRUMENT
T-11 2003
NEW PARKING RESTRICTIONS
WEST HIGH & KING STREETS. COFFS HARBOUR**



PLAN VIEW

INSTALL "NO PARKING" SIGNS IN LANE OFF VINCENT STREET

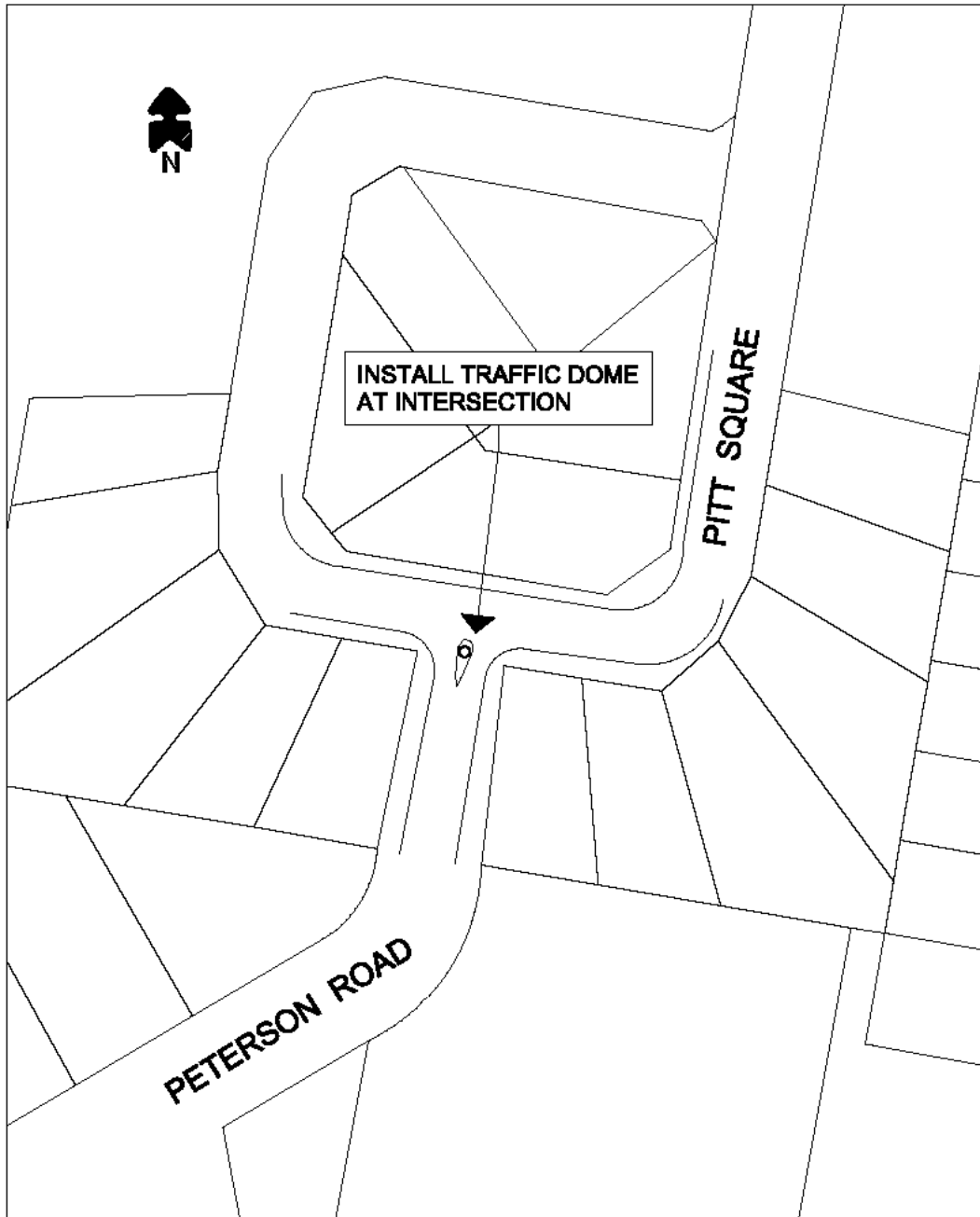
**TRAFFIC INSTRUMENT
T-12 2003
NO PARKING SIGNS
VINCENT STREET. COFFS HARBOUR**



PLAN VIEW

"BUS ZONE" SIGNPOSTING BE INSTALLED IN THE EXISTING BUS BAY AREAS IN GRAHAM DRIVE. SANDY BEACH

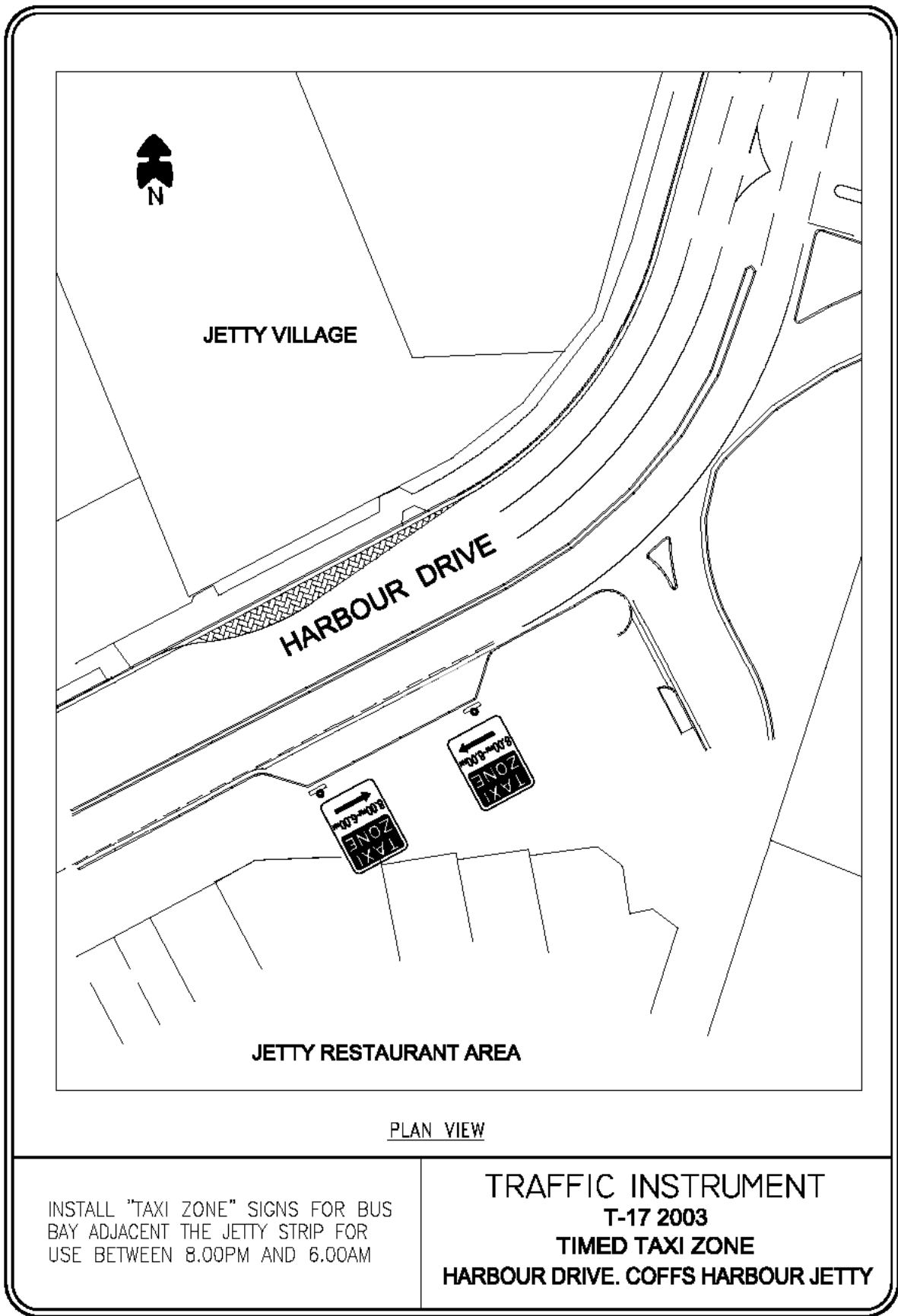
TRAFFIC INSTRUMENT
T-13 2003
BUS ZONE SIGNPOSTING
GRAHAM DRIVE. SANDY BEACH.



PLAN VIEW

INSTALL TRAFFIC DOME AT THE INTERSECTION OF PITTS SQUARE AND PETERSON ROAD, COFFS HARBOUR.

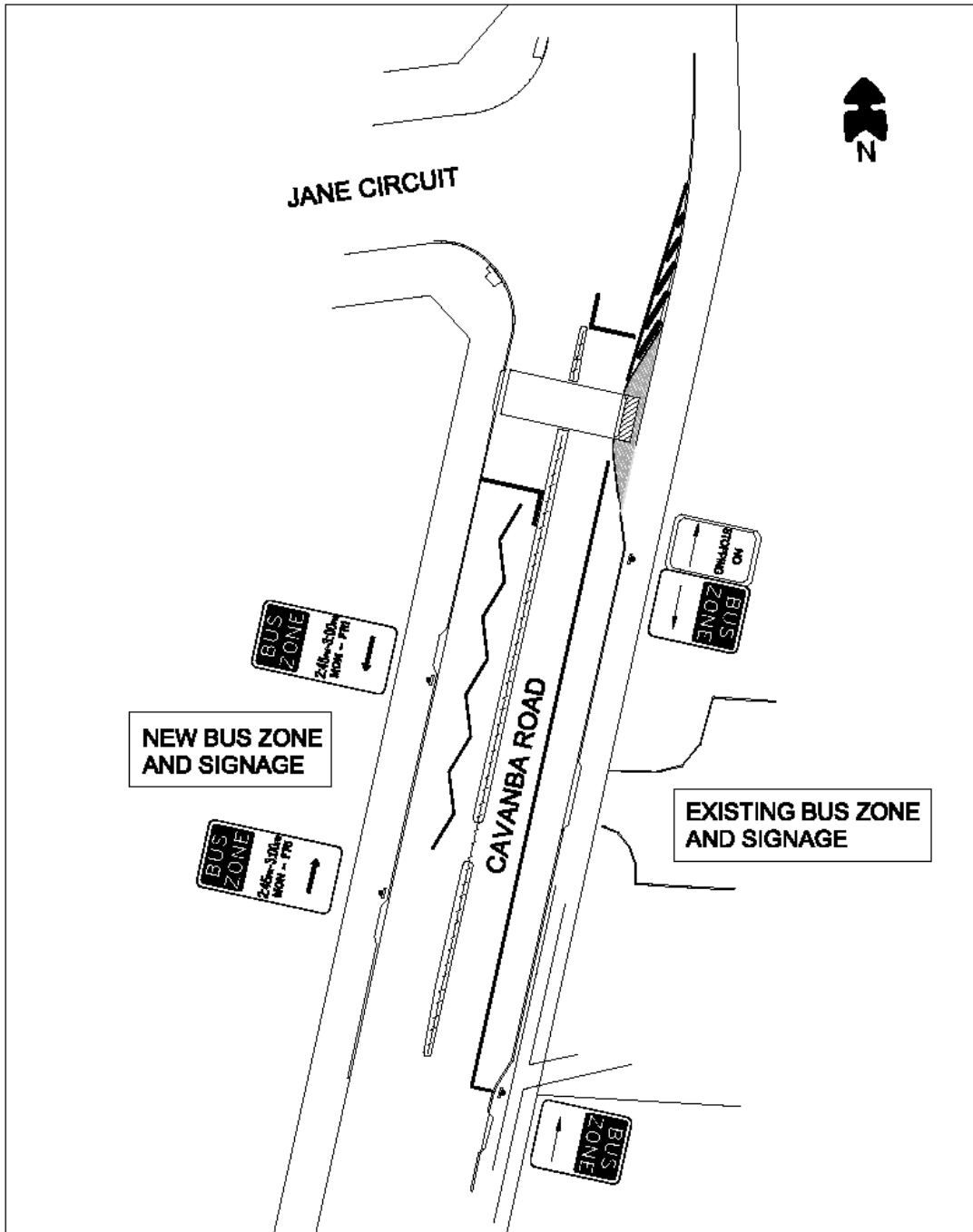
**TRAFFIC INSTRUMENT
T-14 2003
TRAFFIC DOME - PETERSON ROAD
AND PITTS SQUARE, COFFS HARBOUR**



PLAN VIEW

INSTALL "TAXI ZONE" SIGNS FOR BUS BAY ADJACENT THE JETTY STRIP FOR USE BETWEEN 8.00PM AND 6.00AM

TRAFFIC INSTRUMENT
T-17 2003
TIMED TAXI ZONE
HARBOUR DRIVE. COFFS HARBOUR JETTY



PLAN VIEW

INSTALL ADDITIONAL SCHOOL BUS ZONE
FOR TOORMINA PUBLIC SCHOOL IN
CAVANBA ROAD (2:45PM-3:00PM)

TRAFFIC INSTRUMENT
T-18 2003
BUS BAY ZONE
CAVANBA ROAD. TOORMINA

16 WORKS BRANCH REPORT

Purpose:

To advise Council of the progress of construction and maintenance programs undertaken by Works Branch up to 7 March, 2003.

Description of Item:

1. Completed Works

- Footpaths: City Centre, Lyster Street, West High Street to MacLean Street.

Progress on most of the capital works projects has been delayed due the consistent wet weather.

2. Works in Progress

- Water main construction Lady Belmore Drive, Linden Avenue to Searle Crescent, Boambee East.
- Dust Seal: Brewers Road, Nana Glen -
McPhersons Road, Nana Glen
- Jetty Strip drainage, installation of a 1200mm dia storm water pipe from the rear of the Jetty Dive shop to the Jetty Foreshores.
- Flood mitigation works to the North Arm of Coffs Creek at the rear of Collice Place.
- James Small Drive, pavement rehabilitation Korora Bay Drive south to the Pacific Highway.
- Footpath Construction: Combine St Elizabeth Street to Meadow Street
Joyce Street Tyalla Public School crossing to Bray Street

A financial attachment detailing expenditure verse budget for the 2002/2003 Capital Works Program is included for Councils information.

3. Maintenance

Problems are continuing with the boat ramp and siltation of the entrance. It is estimated that Council expenditure on dredging up to 7 March 2003 is approximately \$35,000. The original budget allocation for dredging work is \$15,000 and a budget variation will be required. Continued monitoring indicates the likelihood of continued siltation problems is high and investigations are being undertaken to determine alternatives to the present sourcing of the long reach excavator. Whilst the present method is highly effective, it is not only expensive but also difficult to arrange at short notice.

Further to this the pontoon at the boat ramp suffered serious damage on 4 March 2003 after being subjected to unusually large surge. The pontoon has had to be removed pending repairs which could take up to 2 to 4 weeks.

Recommendation:

1. **That Council note the progress report on construction and maintenance works undertaken by Works Branch up to 7 March, 2003.**
2. **That Council note that individual program expenditures are being monitored to ensure that the total program costs for 2002/2003 are contained within the approved budget.**

Attachments:

**Works Branch-Construction Projects Budget/Expenditure
2002/2003 Program**

AS AT DATE: 7-Mar-03

Description	Revised Budget	Actual Expenditure	% Project Complete	% Costs Expended
Local Roads				
Bucca Rd, realignment, Roads to recovery	\$450,000	\$111,223	25%	25%
Sealed Roads Reseals	\$527,000	\$490,958	95%	93%
Sealed Roads Reseals - Asphalt	\$80,447	\$47,595	60%	59%
Sealed Roads Rehabilitation	\$1,117,834	\$356,606	32%	32%
Gravel Resheets	\$107,940	\$74,957	71%	69%
Federal Roads to Recovery	\$493,266	\$327,738	68%	66%
Dust Sealing	\$200,000	\$82,790	39%	41%
Sawtell Rd reconstruction, Boambee Ck to Hamilton Dr	\$126,484	\$0	0%	0%
Total:	\$3,102,971	\$1,491,868		
Regional Roads				
Hogbin Drive Extension Albany St to High St	\$249,512	\$9,857	4%	4%
Hogbin Dr Widening, Stadium Dr to Boambee Ck	\$487,796	\$480,345	98%	98%
Total:	\$737,308	\$490,202		
Drainage				
Drainage Impts / Nuisance Flooding	\$373,562	\$190,598	57%	51%
Jetty Strip Drainage	\$239,271	\$31,860	9%	13%
Stormwater Management Plan Works	\$156,842	\$83,840	55%	53%
Total:	\$769,675	\$306,298		
Bridges				
Upper Orara & Mt Brown Bridge Approaches	\$200,000	\$163,909	80%	82%
Timmsvale / Pine Brush Ck Bridge Reconstructions	\$486,827	\$497,592	100%	102%
Lower Bobo Reconstruction	\$428,774	\$424,733	98%	99%
Total:	\$1,115,601	\$1,086,234		
Footpaths / Cycleways				
Footpath Construction	\$254,758	\$10,890	5%	4%
PAMPS Footpath Works	\$143,800	\$54,767	36%	38%
Cycleway Projects	\$339,227	\$153,834	47%	45%
Total:	\$737,785	\$219,491		
Water Mains				
Mains Renewals	\$275,000	\$98,477	38%	36%
Mains Extensions	\$70,000	\$9,722	17%	14%
Total:	\$345,000	\$108,199		
Total Capital Works:	\$6,808,340	\$3,702,292		

17 WATER RESTRICTIONS

Purpose:

To recommend to Council that water restrictions be eased to Level 3 from 22 March, 2003, Level 2 from 29 March, 2003 and no restrictions from 5 April, 2003.

Description of Item:

In the report to Council on 5 December 2002 on the change to the delegated authority of the General Manager relating to water restrictions, it was proposed that when Karangi Dam reaches 85% (L4) and 80% (L3) capacity it would form a trigger for review of restriction levels. Karangi Dam is now at 70% (13 March 2003).

The Orara River is still flowing well after substantial follow up rain during the first two weeks of March 2003 (over 200mm at Karangi Dam).

The flow on 13 March was 1900 ML/d, with a peak of approximately 3500 ML/d on 12 March. The high flows should be maintained for a few weeks allowing two pumps to be operated from Cochranes Pool Pump Station on the Orara River

The flow from North Coast Water via the Regional Water Supply pipeline has been maintained at 19 ML/d since pumping resumed.

It is anticipated that with restrictions eased and consumption at approximately 15 ML/d, the dam should reach 80% by approximately 20 March, 85% by approximately 24 March and 100% by 6 April. At 85% the environmental flow will change from 15ML/d to 25ML/d.

The back up rain received will maintain flows in the Orara at a level which will allow maximum pumping for at least the next 14 days. Combined with the inflow from the Nymboida, the result of 100% in Karangi Dam is achievable by the end of the first week in April.

Karangi Dam should be maintained at full capacity for an extended period without further rainfall in the catchment, given that the Nymboida River has substantial flows. Also, should the Orara flows drop to below the environmental flow (25 ML/d), inflow from Nymboida will meet expected consumption levels, therefore maintaining full capacity.

Consultation:

Drought Statement

Statement on Drought for the 11 and 15-month periods ending 28th February 2003
ISSUED 4th MARCH 2003

Heavy February rain brings relief

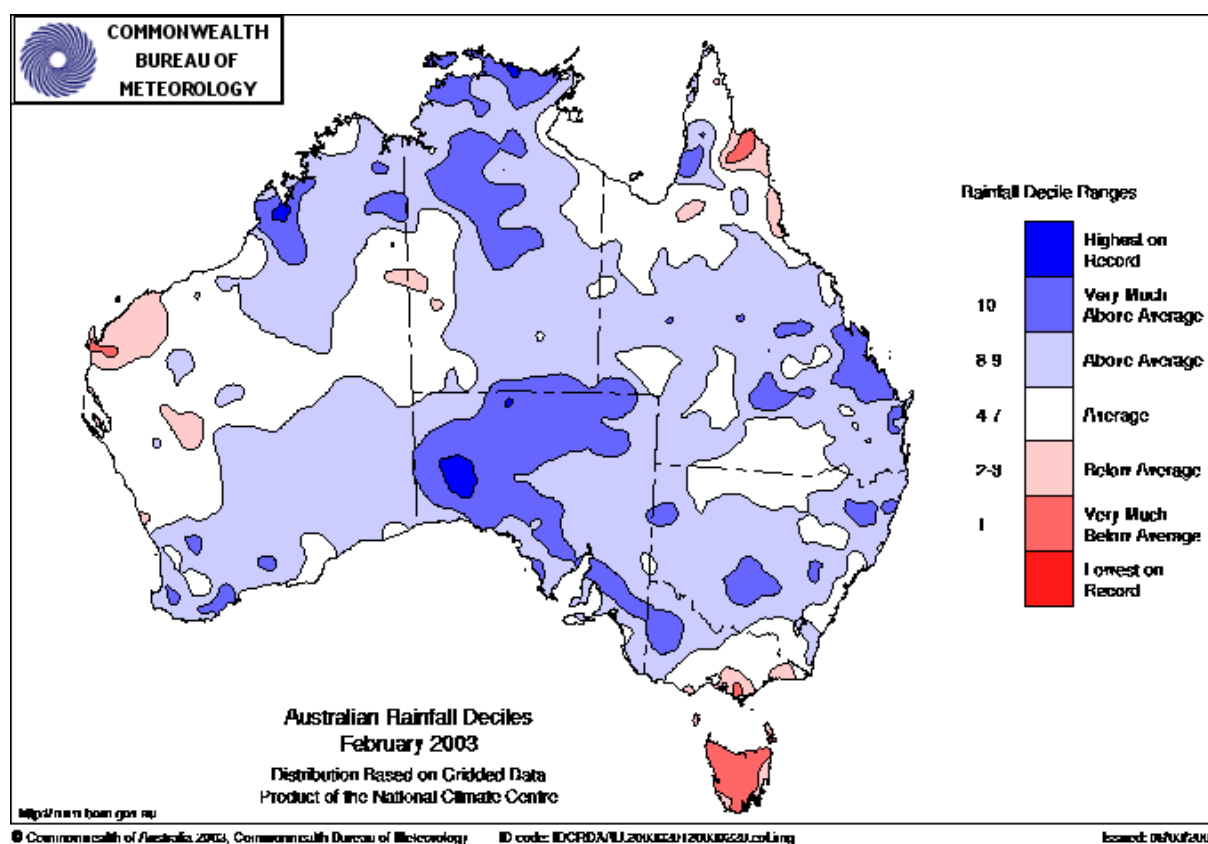
Widespread above average rainfall in February brought significant relief to many areas that had been suffering rainfall deficiencies, the Bureau of Meteorology announced today. Periods of rainfall deficiency were ended over large areas, but in parts of southern Victoria and eastern Tasmania rainfall deficiencies expanded and intensified following below average rainfall in February.

cont'd

17 Water Restrictions (cont'd)

For the 11-month period from April to February, serious to severe rainfall deficiencies stretch from far north Queensland across most of NSW, parts of eastern SA and over the eastern two-thirds of Victoria. Also affected are eastern Tasmania, parts of west and south WA, as well as the eastern inland of WA and the adjacent region in the NT. Despite this situation, over much of central Queensland and the far west and central parts of NSW, February rainfall was of sufficient magnitude that a three-month total from February to April would already be considered "near-average" in these parts.

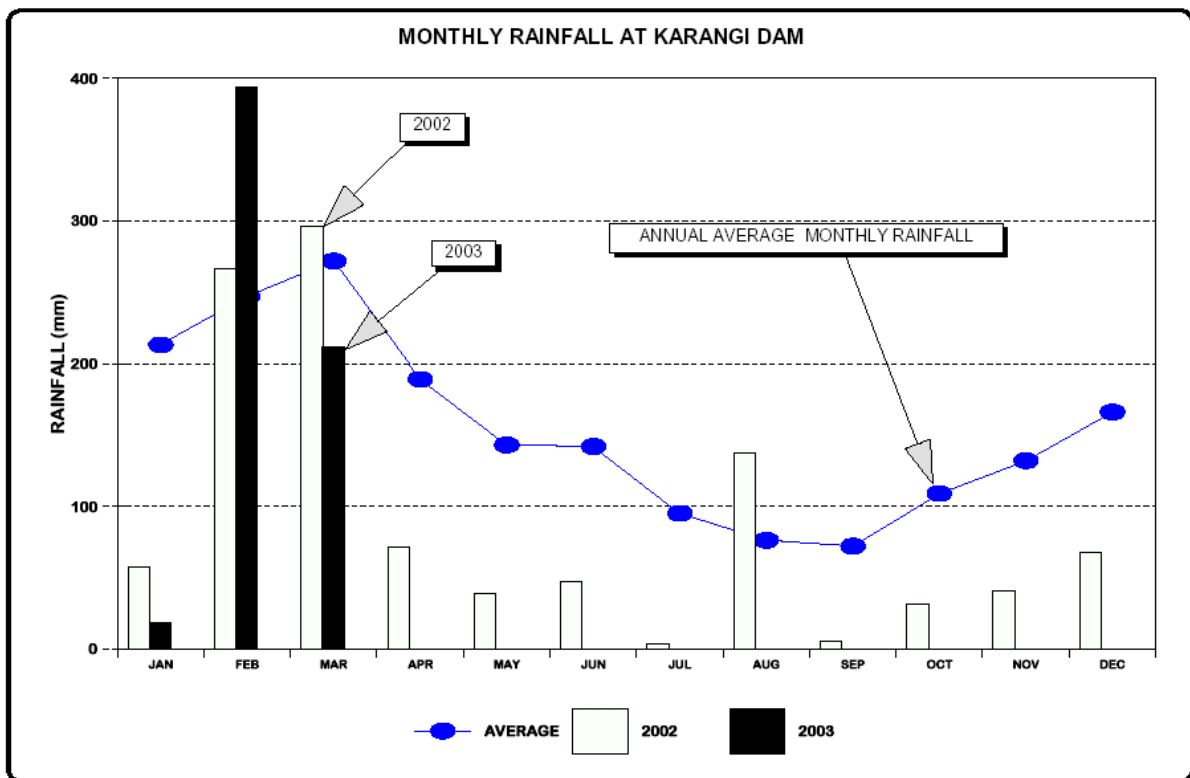
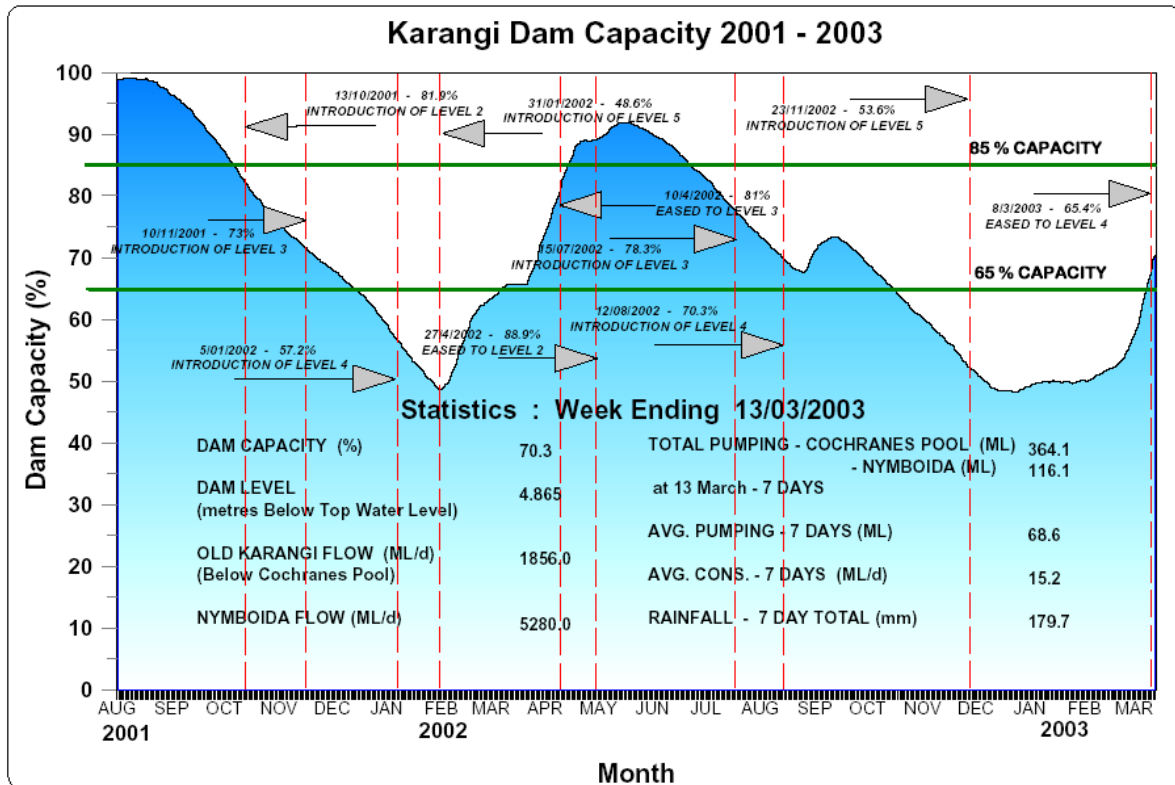
The heaviest falls occurred within about 100km of the coast between Rockhampton and Gladstone, and rainfall deficiencies are no longer analysed between Mackay and Grafton for the period dating from April 2002. Widespread heavy falls over the NT, much of SA and most of western Victoria were also sufficient to end the period of rainfall deficiency.



The catchment area featured in the "Very Much Above Average" rainfall decile range for February.

cont'd

17 Water Restrictions (cont'd)



cont'd

17 Water Restrictions (cont'd)

Recommendation:

That water restrictions be progressively eased as follows:

- **Level 3 - 22 March, 2003.**
- **Level 2 - 29 March 2003.**
- **Lifting of all restrictions - 5 April, 2003.**

18 TENDERS: WRP PROCESS ALLIANCE CONTRACT

Purpose:

To report on tenders received from contractors to form an Alliance Partnership with Council for the process design and supply of Woolgoolga and Coffs Harbour WRP Stage 1 works.

Description of Item:

Council has previously decided to procure the WRP upgrades using an Alliance Contract (Relationship Contract).

In this instance we have opted to procure the contracts by what is commonly known as a "Forced Alliance", ie Council selects the expert partners required to design and build the WRPs and merges them to form an alliance partnership with Council.

This tender is for the process design supply of process and control equipment and the commissioning of this equipment.

The civil contractor/general designers will be selected under a separate tender process.

Tenders were received from three Process Contractors:

1. GHD/Aquatec Maxcon
2. ESI Ltd
3. Environmental Group (Operations) Pty Ltd.

Sustainability Assessment:

The Coffs Harbour EIS assessed the environmental, social and economic impacts of the WRP upgrades.

Particular attention will be paid to design of the plants to achieve high quality effluent standards and to minimise noise and odour impacts.

The project is to be funded jointly by the Department of Land and Water Conservation and Council under Stage 1 Sewerage Strategy funding agreement.

Consultation:

Extensive consultation was carried out with the community and agencies during the development of the EIS.

The community, agencies and key stakeholders will be consulted during the course of construction of the WRPs and monitoring results post commissioning will be communicated.

cont'd

18 Tenders: Wrp Process Alliance Contract (cont'd)

Related Policy and / or Precedents:

Tendering procedures were carried out generally in accordance with Local Government Tendering Regulations. Council's Tender Value Selection System was applied during the tender review process. Council's policy is that the tenderer with the highest score becomes the recommended tenderer.

A tender evaluation report has been prepared by the evaluation panel and is attached in the confidential section. The audit of commercial submissions was not finalised at the time of writing this report, however to expedite the process it recommended Council accept the recommended tender subject to confirmation by Council's auditor that commercial schedules are correct. Issues relating to professional indemnity insurance requirements are also yet to be resolved.

In this Alliance Contract it should be noted the price and final contract agreement (alliance agreement) are jointly developed after the civil alliance partner contracts are awarded.

Effectively what this contract does is to commit Council and the contractor (the alliance partners) to develop concept designs to a stage where an accurate costing of the project can be made, ie the TOC. The alliance partners then agree on the final TOC and alliance agreement which is then ratified by Council. This agreement is then the contract Council builds the WRPs under.

Statutory Requirements:

Based on the Council's Tender Value Selection System, GHD/Aquatec Maxcon was the most advantageous tenderer.

This group has continuous experience in the design and construction of water reclamation plants and bring to Council an experienced team who have worked in an alliance environment.

Implementation Date / Priority:

Work will commence immediately through a tender process to select the civil contractor/general designer which is expected to be completed by May, 2003. Construction should then commence early 2004 and be complete by December, 2004.

Legal

The draft Alliance Agreement (PAA) was prepared by the law firm Blake Dawson and Waldron who are experienced in alliance contracting.

MBT have peer reviewed the contract document and the PAA and have suggested minor amendments to the PAA which will be considered prior to the finalisation of the PAA.

cont'd

18 Tenders: Wrp Process Alliance Contract (cont'd)

Recommendation:

- 1. That subject to Council's auditors confirming that commercial schedules are correct and finalisation of Professional Liability insurances, Council accept the tender of GHD Pty Ltd, ABN 39 008 488 373 and Aquatec Maxcon Pty Ltd, ABN 45 002 250 482, for contract No. 02/03-119-TO for the Water Reclamation Plants Alliance on the basis that:
 - a) The tender is the most advantageous tender following the application of Council's Tender Value Selection System.**
 - b) The tenderer has the necessary experience in similar works and their ability and performance are satisfactory.****
- 2. That the Alliance Team finalise the alliance agreement to enable execution by Council.**
- 3. That costs expended in developing the Total Outturn Cost (TOC) be limited to \$400,000 without further Council approval.**
- 5. That the TOC and alliance agreement be finalised for Council approval and execution not later than 30 October, 2003 unless otherwise approved by Council.**

L T Ford
Acting Director of Engineering