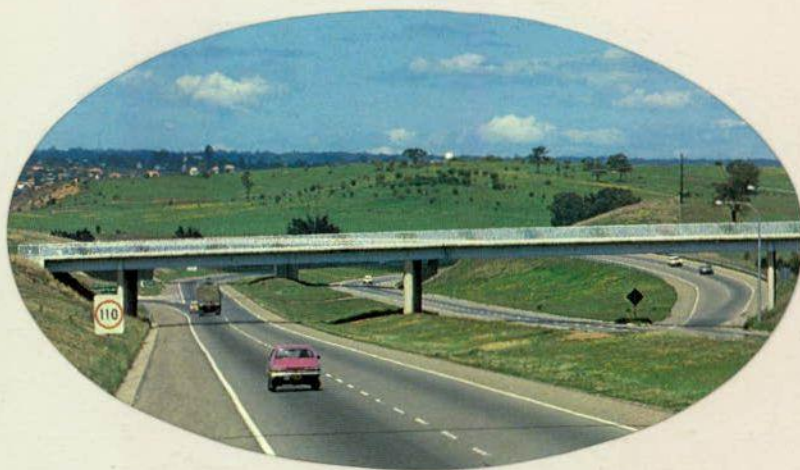


# Department of Main Roads New South Wales



## The Commissioner for Main Roads Annual Report 1977-78

# The Commissioner for Main Roads Annual Report 1977-78



**F5 — South Western Freeway with the onloading ramp from Campbelltown and the Raby Road overbridge.**

The Commissioner for Main Roads is responsible for the administration of the Main Roads Act 1924 (as amended), the prime objective of which is to provide a means of ensuring the satisfactory maintenance and improvement of roads throughout the State, which have been classified under the Main Roads Act both in country and urban areas.



## principal officers

B.J. Sexton, BE, FIE(Aust), FCIT  
D.C. Jacob, BE, MIE(Aust), MAIT

### Branch Heads

E.M. Brown, BE, MIE(Aust), MCIT, CTPC  
N.B. Herrick, AASA  
E.C. Cooper, AASA  
G.C. Sheldon, LLB

**Commissioner for Main Roads**  
**Acting Deputy Commissioner for Main Roads**

**Acting Engineer-in-Chief**  
**Secretary**  
**Chief Accountant**  
**Chief Legal Officer**

From left to right: (seated) Mr. B.J. Sexton, Mr. D.C. Jacob, (standing) Mr. G.C. Sheldon, Mr. N.B. Herrick, Mr. E.C. Cooper and Mr. E.M. Brown.





# submission

SYDNEY, NEW SOUTH WALES  
NOVEMBER, 1978

THE HONOURABLE, THE MINISTER FOR LOCAL GOVERNMENT AND MINISTER FOR ROADS, SYDNEY

SECTION 6 OF THE MAIN ROADS ACT, 1924, REQUIRES THAT THE COMMISSIONER FOR MAIN ROADS SHALL PRESENT AN ANNUAL REPORT AND STATEMENT OF ACCOUNTS TO PARLIAMENT THROUGH THE MINISTER.

I NOW HAVE PLEASURE IN SUBMITTING THROUGH YOU THE FIFTY-THIRD ANNUAL REPORT, INCLUDING STATEMENT OF ACCOUNTS.

THE REPORT COVERS THE PERIOD FROM 1 JULY 1977 TO 30 JUNE 1978 THOUGH A FEW MATTERS REFERRED TO ARE CARRIED BEYOND THE LATTER DATE FOR CONVENIENCE AND COMPLETENESS OF RECORD.



B.J. SEXTON  
COMMISSIONER FOR MAIN ROADS



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## commissioner's statement

The past financial year has been a critical one for this State's roadbuilding programme and the one most important factor has been finance.

Good communications within our community depend on good roads and as funds (or their value) are reduced, so construction projects have to be postponed or slowed down and funds directed instead towards maintenance work.

The works undertaken by the Department of Main Roads during the year were, as usual, extremely varied and vitally important. The extent of the work, which reached into every corner of the State, can be quickly seen by glancing through this Report. It seems inappropriate to refer to any works as being of special importance because even the smallest improvement in the remotest district adds not only to the safety and convenience of the local residents but also benefits the whole community because it is a link in the total main roads network. I will therefore let the following Report speak for itself as a record of what has been done by the Department this year for the people of this State.

Over the previous years the task of maintaining and improving the Main Roads System has been carried out in a manner which has given successive Commissioners justifiable pride in the achievements of the staff and work force of the Department of Main Roads. This year has been no exception and I commend to you the work of my officers and employees. In my first year in office I have very much appreciated their assistance and the skill and dedication with which they have undertaken their individual tasks.

Having said that, I must point out that prior to the formation of the original Main Roads Board in 1925, thousands of kilometres of road had been constructed and hundreds of timber bridges had been built by Councils and by the earlier authorities which were responsible for this work. Many of these roads have never been adequately realigned or reconstructed, while many of these bridges (particularly in the more remote rural areas of the State) are still in service. These bridges are rapidly approaching the end of their economic life and will need replacement very soon.

As the present Commissioner, I wish, therefore, to advance a sobering thought relating to the increasing difficulty of "maintaining the asset" of our older roads and bridges. Obviously, with the passage of time, considerably more lengths of road throughout the State will reach the stage of requiring either major reconstruction or an ever increasing investment in maintenance costs — and many more bridges will require either replacement or much more money spent than at present on keeping them safe and serviceable.

With continuing inflation having a drastic and detrimental impact on the real value of the finance available for road and bridge works, it is imperative that increased funds be found to "maintain

the asset" which has been established for the community over past years.

So great has been the erosion of the real value of funds available for roadworks that I have included in this Report a greater number of financial statements and bar charts than usual, in order to show the disturbing rate of decline over recent years. I will mention only a few here briefly but I earnestly urge that the widest publicity be given to the statements and figures on pages 8 to 10. In this way it should be clearly understood throughout the community and the media that our appeals for increased funds are based on a realistic recognition of our essential needs and on the factual assessment of economic trends which indicate a critical decrease in the relative value of money allocated to roadbuilding.

The particular, if not unique, problems of road financing are underlined by the rapid rise in the Department's Road Cost Index, which is calculated on the movement of specific costs associated with road and bridge building machinery, materials, haulage and labour. Road construction and maintenance costs have jumped 109% in the last five years, compared with a Cost Price Index rise of 82% in the same period.

During this time, the Department's receipts from its main sources of income dropped 18%, representing a loss of \$58 million in 1977/78 values.

While motor vehicle registrations have increased more than 18% since 1972/73, bringing almost another 367,000 vehicles onto the State's roads system, receipts from motor vehicle registration tax have dwindled in real terms by 21%. The inflationary spiral is also apparent when we consider that in spite of a 33½% rise in registration tax in November 1976, the average receipt per vehicle from motor vehicle registration tax has fallen by 33% when expressed in 1977/78 values.

An increase in loan borrowings has partly offset this loss in the real value of motor vehicle registration tax receipts as well as a similar loss in receipts under the Road Maintenance (Contribution) Act 1958, which have fallen, in real terms, by 50% since 1972/73.

While increases in loan funds have enabled some road projects to be completed, the continued use of high loan allocations is considered to be undesirable. As debt charges on loan funds must be met from motor vehicle registration tax (because Commonwealth grants and road maintenance charges are not available for this purpose), some new capital works have to be deferred each year in order to meet the charges due on loans already raised.

With regard to Commonwealth grants for roads in New South Wales, an increase of \$17.6 million between the 1976/77 and 1977/78 allocations was unfortunately offset by a 12% rise in costs. This is typical of how an apparent increase in road funding is almost immediately swallowed up by inflation before any additional work can be undertaken.

Expressed in 1977/78 values the total Commonwealth grants have, in fact, fallen by almost \$11 million or 6.5% since 1974/75, in no way keeping up with rising costs.

The matter of the continuing reduction in the percentage of fuel tax revenue returned by the Commonwealth Government for roadworks in this State is a vexed and much discussed question. Whereas prior to 1964/65 this percentage return was consistently higher than 60%, it has now dropped to less than 50% over the last five years.

Looking at the last ten years, New South Wales road users have paid over \$2,000 million to the Commonwealth in fuel taxes, while less than \$1,000 million has been returned to the State for roadworks.

In my view, it is reasonable that road users in New South Wales should expect that a higher proportion of the Commonwealth taxes they already pay should be devoted to road improvements.

Although, the State Government has, so far, been unable to convince the Commonwealth of the need for increased grants for roadworks, I firmly believe that an increased return from Commonwealth fuel tax revenue is warranted and is the most practical solution to the road funds problem.

Within the Department of Main Roads, there is no lack of competent planning for vital road improvements throughout the State. There is no lack of desire to implement sound proposals. There is no lack of awareness of community needs for better mobility. There is no lack of technical expertise to undertake road and bridge projects. But, there is a lack in one vital component — that is finance. And without adequate finance, no amount of planning, preparedness or constructional skill is of any use.

Looking to the year ahead, I commend the State Government on the record allocation of \$465 million for roadworks during 1978/79. This figure, unfortunately, includes a contribution of only \$167 million from the Commonwealth Government.

The overall increase of \$64 million, or 16% above this year's expenditure, will allow many vital road and bridge building projects to be undertaken throughout the State.



B.J. SEXTON  
COMMISSIONER FOR MAIN ROADS  
NOVEMBER 1978



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receipts

State Motor Vehicle Registration Tax	\$122,874,889
State Charges on Heavy Commercial Vehicles	\$19,022,565
Loans	\$19,010,000
Road Transport and Traffic Fund and Public Vehicles Fund	\$13,618,078
Other	\$38,275,456
Commonwealth Road Grants	\$157,565,447

payments

Construction, Reconstruction and Property Acquisitions on Classified Main Roads	\$189,111,941
Maintenance and Minor Improvements on Classified Main Roads	\$91,374,327
Construction and Maintenance on Local Roads	\$34,065,615
Traffic Facilities on Classified Main Roads and Local Roads	\$26,246,360
Administration and Miscellaneous	\$46,590,683



# statement of receipts and payments for the year ended 30 june 1978

## receipts

Motor vehicle registration tax .....	
Charges on heavy commercial vehicles under the Road Maintenance (Contribution) Act, 1958 .....	
Levy upon Councils in accordance with Section II of the Main Roads Act, 1924 .....	
State Government Loans — Repayable .....	
Loan Borrowings under Section 42A of the Main Roads Act, 1924 .....	
State Treasury Advance — Repayable .....	
Councils for works carried out in conjunction with works on Main Roads .....	
Other departments and bodies for works carried out in conjunction with works on Main Roads .....	
State Government Grant for Relief of Unemployment .....	
Commonwealth / State Government Grant for restoration of flood damage .....	
State Government Grant for upgrading Cane Roads .....	
State Government Grant for access road to Westmead Hospital .....	
Sydney Harbour Bridge Account for freeway approaches .....	
Transport (Planning and Research) Act, 1974 .....	
Transport Planning and Research (Financial Assistance) Act, 1977 .....	
National Roads Act, 1974 .....	
Roads Grants Act, 1974 .....	
States Grants (Roads) Act, 1977 .....	
Road Transport and Traffic Fund and Public Vehicles Fund .....	
Ministry of Transport Vote .....	
Other .....	

## total receipts

## payments

Construction and reconstruction of roads and bridges .....	
Construction and maintenance of local roads .....	
Property acquisition .....	
Maintenance and minor improvements of roads and bridges .....	
Restoration of flood damage (Proclaimed Natural Disasters) .....	
Purchase of land and buildings for works operations .....	
Administrative expenses .....	
Purchase of land and buildings for administration .....	
Planning and research .....	
State Treasury Loans —	
Sinking fund payments .....	
Interest, exchange, management and flotation expenses .....	
Loan Borrowings under Section 42A of the Main Roads Act, 1924 —	
Repayment of principal .....	
Interest .....	
Other .....	
Transfers to reserve for loan repayments .....	
Net transaction of operating and suspense accounts .....	

## total payments

<sup>(a)</sup>Credit



County of Cumberland Fund \$	Country Fund \$	Commonwealth Fund \$	Traffic Facilities Fund \$	Total 1977/78 \$	1976/77 \$
34,288,739	84,766,150		3,820,000	122,874,889	106,098,521
3,804,513	15,218,052			19,022,565	19,809,661
59,324				59,324	56,559
6,000,000	3,000,000			9,000,000	8,000,000
4,010,000	6,000,000			10,010,000	13,990,000
7,000,000				7,000,000	—
160,728	401,130			561,858	898,392
1,396,005	865,936			2,261,941	914,044
2,860,000	7,820,000			10,680,000	100,000
	8,725,600			8,725,600	11,806,380
				—	300,000
500,000				500,000	—
				—	354,230
		112,647	150	112,797	1,785,494
		1,613,285		1,613,285	—
		1,811,314		1,811,314	57,388,686
			228,051	228,051	78,191,778
		149,521,664	4,278,336	153,800,000	—
			13,618,078	13,618,078	7,229,609
			2,500,000	2,500,000	2,500,000
3,153,389	1,031,599		1,801,745	5,986,733	2,866,843
63,232,698	127,828,467	153,058,910	26,246,360	370,366,435	312,290,197
30,195,674	48,687,074	93,405,078	7,724,764	180,012,590	146,507,632
		34,065,615		34,065,615	21,875,700
3,264,617	2,064,503	11,494,995		16,824,115	16,309,516
17,921,239	57,243,204	6,948,170	16,378,141	98,490,754	83,957,456
	9,261,714			9,261,714	12,184,292
1,752,081	833,141	507 <sup>(a)</sup>	323,746	2,908,461	1,016,666
2,273,387	6,776,232	4,821,328	1,519,559	15,390,506	15,973,551
576,090	221,620			797,710	599,985
664,630	1,044,280	1,779,433	150	3,488,493	3,193,884
50,000	291,172			341,172	243,313
531,640	3,239,193			3,770,833	2,102,997
403,550	719,291			1,122,841	758,495
2,114,479	2,549,763			4,664,242	3,222,539
426,339	1,340,883			1,767,222	793,672
60,173,726	134,272,070	152,514,112	25,946,360	372,906,268	308,739,698
303,787	320,363	—	—	624,150	480,150
7,626,409	5,932,099	—	300,000	13,858,508	644,453
68,103,922	140,524,532	152,514,112	26,246,360	387,388,926	309,864,301



effect of cost rises

The Department's Road Cost Index — which takes into account movement with cost of labour, materials for roads and bridges, haulage and road machinery — shows that road construction and maintenance costs have increased by 109% over the five year period since 1972/73, whereas the Consumer Price Index has recorded an increase of 82% in that same period.

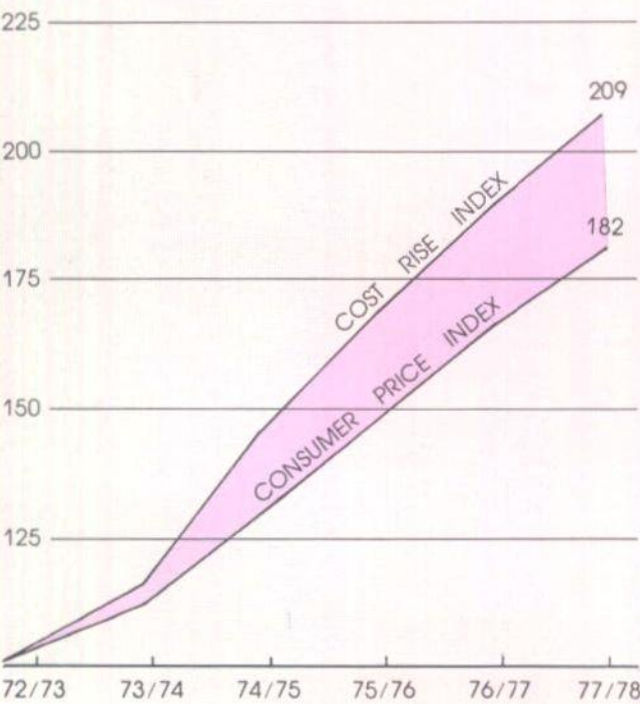
These increases in road costs have presented a serious problem to the Department as its main sources of income for classified Main Roads, when expressed in 1977/78 values, have progressively declined by 18%; from \$321 million in 1972/73 to \$263 million in 1977/78.

This fall in real income has been further aggravated by the need for additional works resulting from the increase of 18.3% in the number of registered motor vehicles in this period.

Whilst there have been some increases in the Department's income, the annual amount provided per vehicle from the main sources of income for works on Main Roads, when expressed in 1977/78 values, has fallen by 31%; from \$160 in 1972/73 to \$111 in 1977/78.

This decline in the real value of income previously available to the Department and in the amount provided per vehicle has caused many of the planned improvements to the Main Roads system to be postponed and particularly those in the Urban Areas of Sydney, Newcastle and Wollongong.

Comparison of Department's Cost Rise Index with Consumer Price Index



Main sources of income for Main Roads at 1977/78 values

Year	Motor Vehicle Registration Tax \$M	Road Maintenance Charge on Heavy Vehicles \$M	Commonwealth Grants for Main Roads \$M	Total \$M
1972/73	155	38	128	321
1973/74	146	36	133	315
1974/75	119	30	136	285
1975/76	106	25	135	266
1976/77	117	21	131	269
1977/78	123	19	121	263

state sources

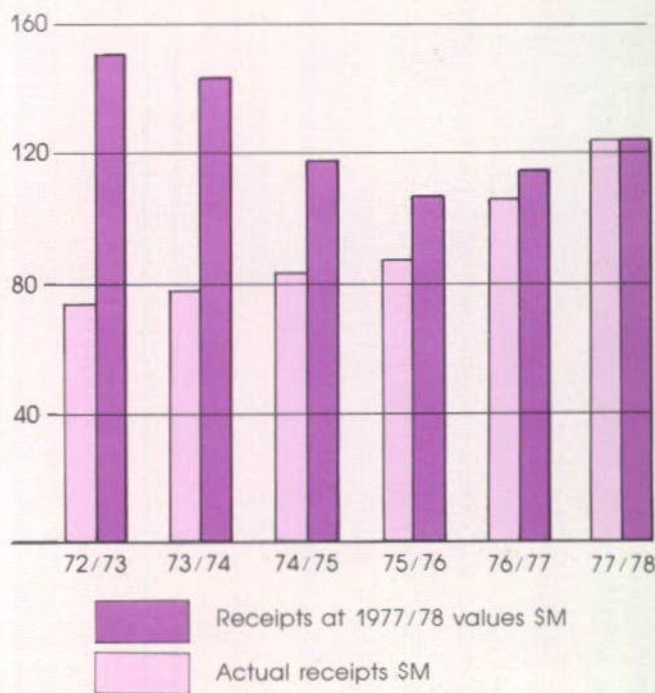
motor vehicle registration tax

Receipts for Main Roads works from Motor Vehicle Registration Tax for 1977/78 totalled \$122,874,889 which was \$16,776,368 or 15.8% more than 1976/77.

Despite an increase of 18.3% in the number of vehicle registrations since 1972/73 and an increase of 33½% in the registration tax in November 1976, the receipts from this source have declined in real terms by 21%. When expressed in 1977/78 values, the receipts have declined from \$155.3 million in 1972/73 to \$122.9 million in 1977/78.

The increase in registration tax in November 1976 has been the only increase since January 1972. The additional receipts as a result of the January 1972 increase were applied primarily to retain the then level of effort following the decision to relieve Councils of their contributions to works on Main Roads.

Motor Vehicle Registration Tax at 1977/78 values





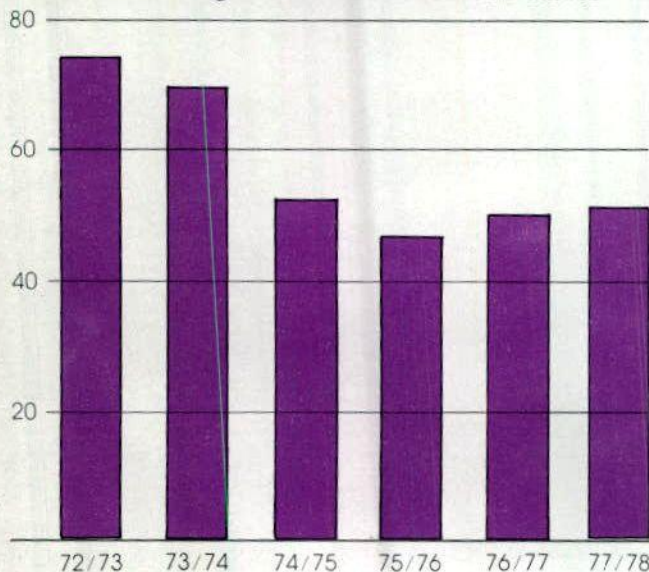
Year	Motor Vehicle Registrations		
	Motor Vehicle <sup>(a)</sup> Registrations	Increase Over Previous Year %	Index
1972/73	2,009,238	—	100.0
1973/74	2,080,112	3.5	103.5
1974/75	2,186,187	5.1	108.8
1975/76	2,236,812	2.3	111.3
1976/77	2,296,203	2.7	114.3
1977/78	2,375,927	3.5	118.3

<sup>(a)</sup>Excludes plant, tractors, trailers and caravans

## average receipts per vehicle from motor vehicle registration tax

The average receipts per vehicle from motor vehicle registration tax has also declined in real terms and when expressed in 1977/78 values, has fallen by 33%; from \$77.30 in 1972/73 to \$51.70 in 1977/78.

### Average receipts per vehicle from Motor Vehicle Registration Tax at 1977/78 values



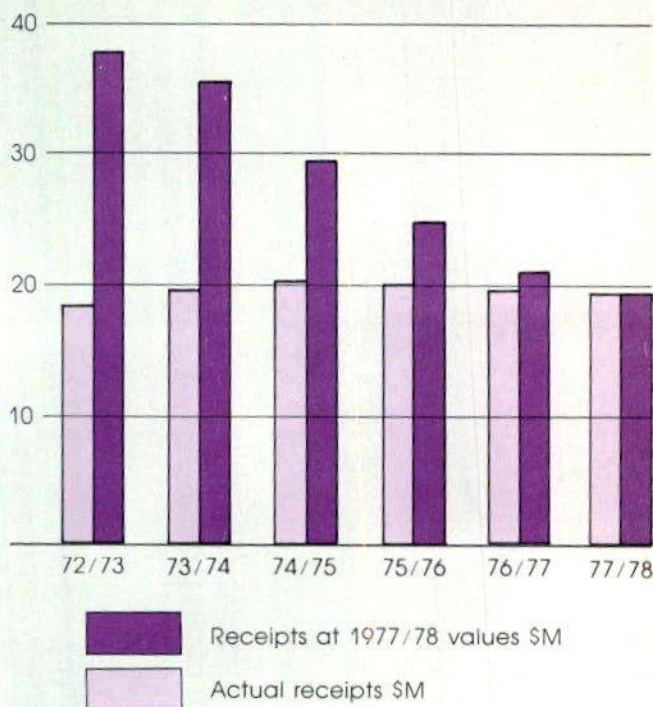
## contributions under road maintenance (contribution) act, 1958

Receipts under the Road Maintenance (Contribution) Act, 1958, from charges on commercial goods vehicles with a load capacity exceeding 4.1 tonnes during 1977/78 were \$19,022,565 which was \$787,096 less than 1976/77.

This charge at 0.17 cents per tonne/kilometre for the additional wear these vehicles cause to public streets was introduced in 1958. The charge is made on the tare of the vehicle plus 40% of its load capacity and is payable for interstate as well as intrastate journeys and for empty as well as loaded running.

Since 1972/73, the receipts from this source have declined in real terms by 50% and when expressed in 1977/78 values, have declined from \$38.2 million to \$19 million in 1977/78.

## Road Maintenance (Contribution) Act 1958

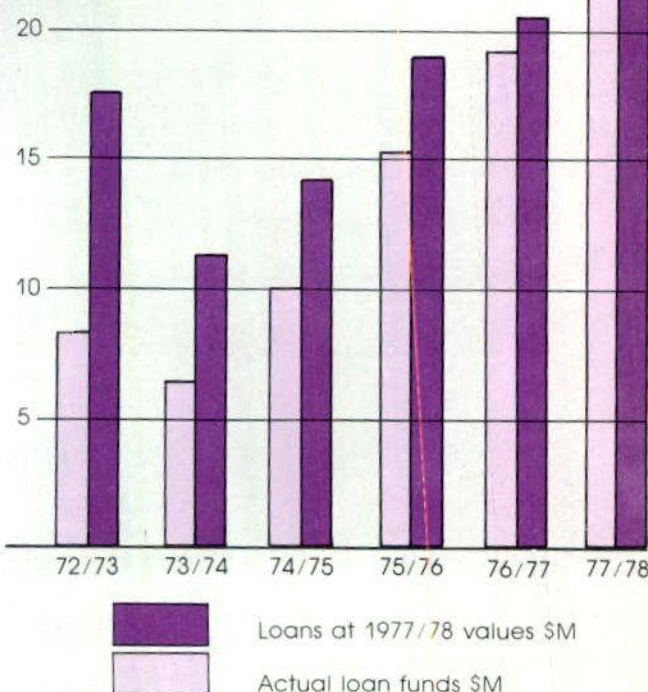


## loans

In 1977/78, \$10.01 million was borrowed under Semi Government loan allocations for construction works. A further \$2.99 million was borrowed in June 1977 for use in 1977/78. An additional amount of \$9 million was provided from repayable State Government loan funds.

The increase in the total loan borrowings from \$8.5 million in 1972/73 to \$22 million in 1977/78 has partly offset the loss in real value of receipts from motor vehicle registration tax and road maintenance charges.

## Loan Funds



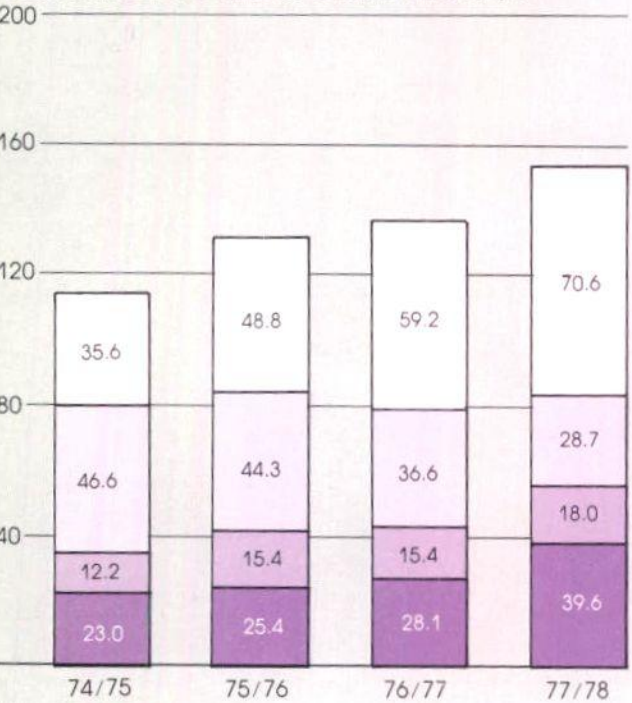


commonwealth sources

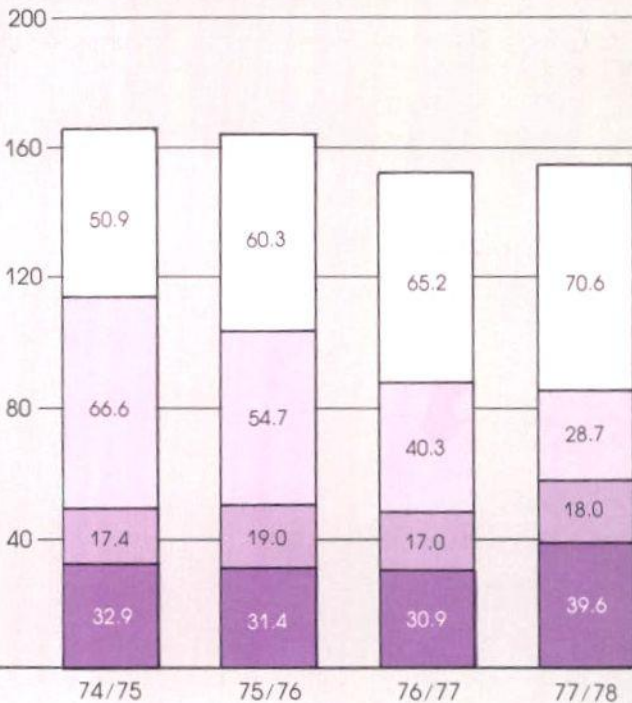
The Commonwealth Grants for roads in New South Wales in 1977/78 were increased from \$139.3 million in 1976/77 to \$156.9 million. This increase of \$17.6 million was offset by cost rises of 12.2% in 1976/77 and consequently did not provide for any increase in the work effort. While the total Commonwealth grants when expressed

in 1977/78 values, have been reduced from \$167.8 million in 1974/75 to \$156.9 million in 1977/78, the amounts granted for Urban Arterial Roads have been dramatically reduced. When expressed in 1977/78 values these Urban Arterial road grants have fallen by 57%; from \$66.6 million in 1974/75 to \$28.7 million in 1977/78.

Commonwealth Grants at Current Values \$M



Commonwealth Grants at 1977/78 Values \$M



- National Roads
- Urban Arterial Roads
- Rural Arterial Roads
- Urban Local, Rural Local Roads, MITERS and Planning and Research

payments

Total payments from the County of Cumberland, Country, Commonwealth and Traffic Facilities Funds amounted to \$387,388,926 or \$77,524,625 more than 1976/77. Construction, reconstruction and property acquisitions accounted for the major portion of the expenditure and the amount expended on these works, other than traffic facilities, was \$189,111,941 or 49% of the total expenditure. Expenditure on maintenance and minor improvements,

other than traffic facilities, was \$91,374,327 or 23.6% of the total expenditure. Included in this expenditure was \$9,261,714 for restoration of flood damage resulting from natural disasters. \$34,065,615 was spent from Commonwealth grants on the construction and maintenance of Councils' Local Roads. Expenditure on the construction and maintenance of traffic facilities was \$26,246,360 compared with \$19,521,365 in 1976/77, an increase of 34.4%.



tollworks

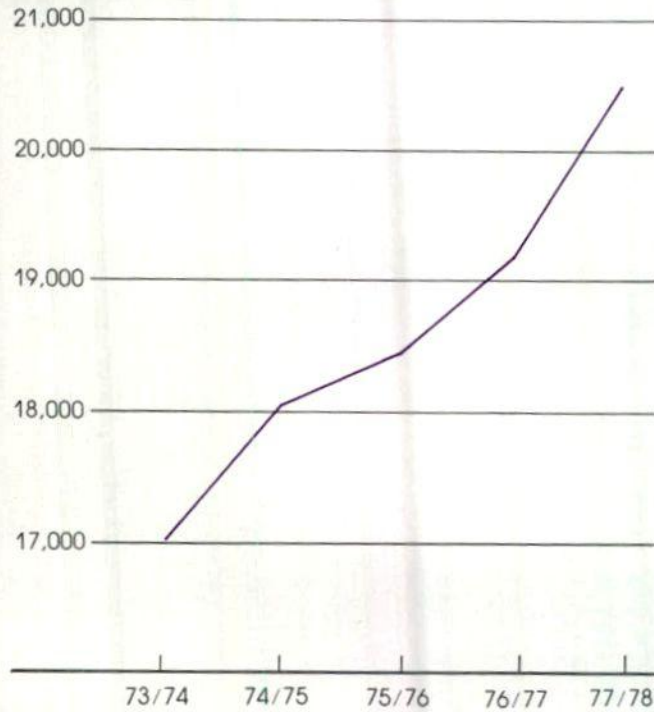
berowra to calga

During 1977/78 7,539,920 vehicles used this Tollwork, an increase of 528,257 vehicles over the previous year. This represents an average daily traffic increase of 1,447 vehicles over 1976/77.

Toll collections were \$5,533,322, an increase of \$353,719 (6.83%) over the previous year. The cost of operations, administration and capital debt charges in 1977/78 was \$3,931,372, a decrease of \$142,534 (3.5%).

As at 30 June 1978 the Capital Debt was \$27,706,719.

Berowra to Calga Tollwork annual average daily traffic



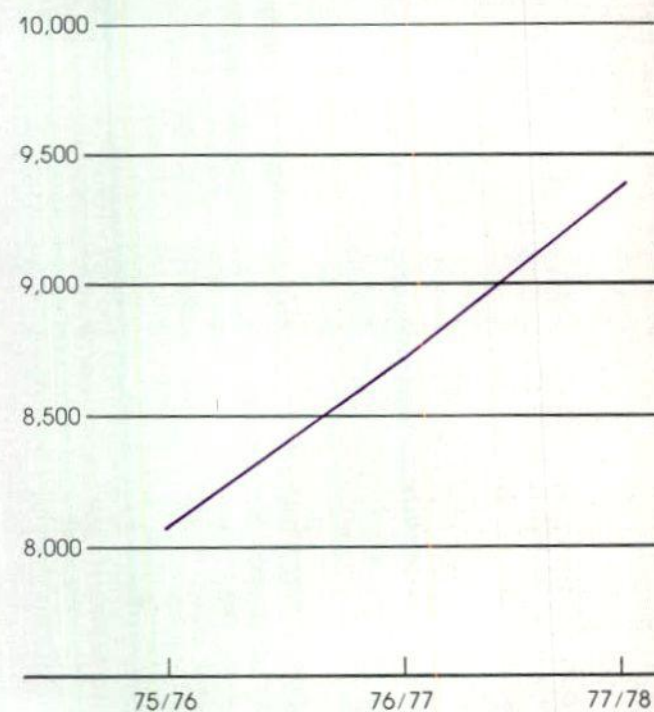
waterfall to bulli pass

During 1977/78 3,441,539 vehicles used this Tollwork, an increase of 259,931 vehicles over the previous year. This represents an average daily traffic increase of 712 vehicles over 1976/77.

Toll collections were \$1,454,669, an increase of \$108,847 (8.09%) over the previous year. The cost of operations, administration and capital debt charges in 1977/78 was \$4,399,141, an increase of \$27,110 (0.62%).

As at 30 June 1978 the Capital debt was \$23,507,287.

Waterfall-Bulli Tollwork annual average daily traffic



This park like area on the F3 — Sydney-Newcastle Freeway complements the quality of the road which passes through it.





sydney harbour bridge

capital indebtedness

After taking into account sinking fund payments to the Treasury and setting aside revenue for repayment of private loans, the capital debt in respect of the Sydney Harbour Bridge and approaches (including the Cahill Expressway and Warringah Freeway) fell from \$13,326,489 at the end of the previous financial year to \$12,601,605 as at 30 June 1978.

income and expenditure

The toll income from road vehicles amounted to \$5,395,430 which was \$261,787 more than in 1976/77. The amount received from the Public Transport Commission in respect of railway and omnibus usage in 1977/78 was \$355,763 compared with \$351,975 in 1976/77.

Expenditure during the year was \$5,765,802 or \$220,689 more than in 1976/77, due to increased costs for maintenance, toll collection and traffic facilities.

The sources of income and the main items of expenditure are illustrated in the diagram below.

traffic

The road vehicle crossings of the bridge during the 1977 calendar year totalled 55,012,030 of which 28,119,840 were northbound and 26,892,190 southbound vehicles.

The Annual average Daily Traffic Volume on the Sydney Harbour Bridge increased by 3.3% over the volume of the previous year to 150,840 vehicles per day. The highest daily volume of 187,390 vehicles was recorded on Friday, 9 December 1977. The Annual Average southbound traffic increased by 3.8% to 73,730 while the northbound traffic increased by 2.8% to 77,100.

Average peak hour volumes in the direction of major flow of 9,860 vehicles in the morning and 9,090 vehicles in the evening peak periods remained much the same as those recorded during the previous year. The highest hourly volumes recorded in the direction of major flow were

10,700 vehicles in the morning and 10,150 vehicles in the evening peak periods.

Average peak hour volumes in the direction of minor flow increased by 3.0% to 3,510 in the morning and by 9.0% to 3,870 in the evening peak periods. The highest hourly volumes recorded in the direction of minor flow were 4,410 vehicles in the morning and 4,880 in the evening peak periods.

It should be noted, that the directional peak hour volumes were selected during the hour of the highest combined volume.

maintenance

The fifth cycle of repainting of the Sydney Harbour Bridge continued throughout the year with particular emphasis on cleaning and painting areas subject to early break down.

The area of steelwork covered in a complete cycle of repainting is 485 000 m<sup>2</sup> of which an area of 37 235 m<sup>2</sup> was painted during the year, completing approximately 302 035 m<sup>2</sup> of the fifth cycle of repainting.

Routine repainting of handrails, fencing and lamp standards on the Cahill Expressway overhead road, and the interior surfaces of the pylons was also carried out.

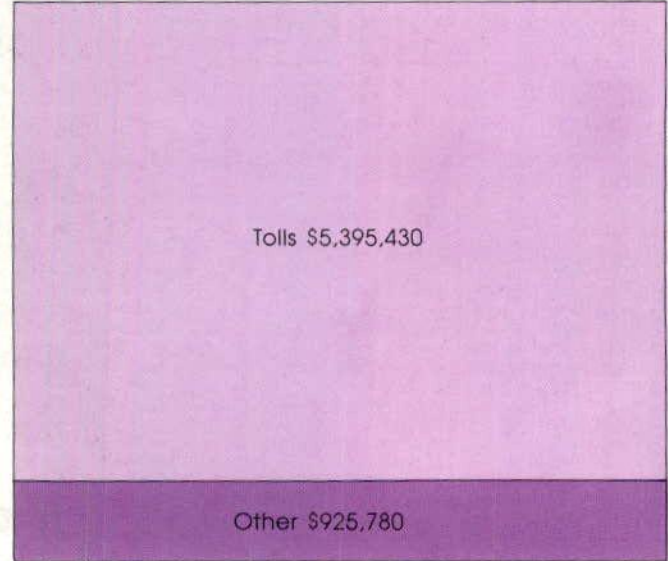
Routine maintenance and inspection of steelwork, cranes, lifts and other mechanical equipment continued through the year. Improvements were made to access ways and security barriers.

Routine maintenance and inspection of power supply, lighting and all electrical equipment were continued and a major overhaul of the flood lights was carried out.

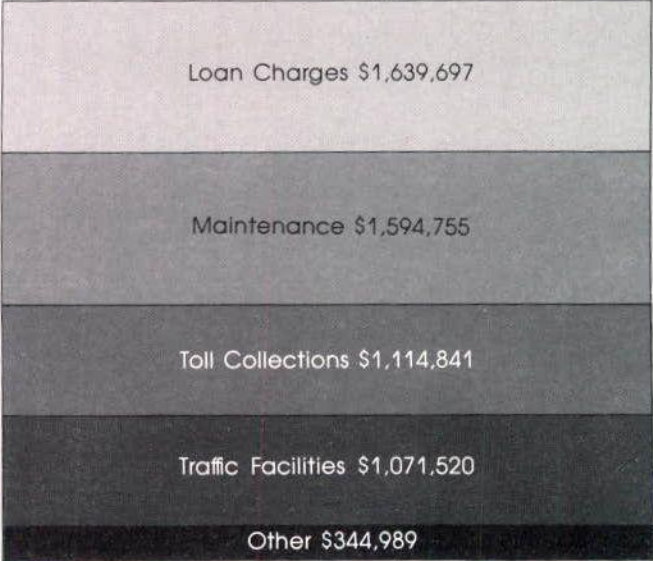
Routine maintenance of fire services, water supply and drainage was also carried out and painting of ancillary buildings continued through the year.

General repairs to and maintenance of the road pavement including the Cahill Expressway and Warringah Freeway approaches to the Sydney Harbour Bridge, roadway lighting, signs and expansion joints continued through the year.

income



expenditure





Construction of the pier columns for the new bridge over the Nepean River at Maldon on a deviation of Trunk Road No. 95 using the "slip form" technique.





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## retirement of commissioner

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### A.F. Schmidt, BE, FIE(Aust), FCIT, FRIPA

On 5 October 1977 Mr. A.F. Schmidt ceased duty as Commissioner for Main Roads, having held the position since 26 August 1974.

Mr. Schmidt's career with the Department of Main Roads began on 4 September 1939 in the Bridge Design Section. It was interrupted by World War II when he enlisted in the 2nd A.I.F. in January 1942 and served in the Electrical and Mechanical Engineers Corps where he rose to the rank of Captain.

Rejoining the Department early in 1946, Mr. Schmidt served a further two years in the Bridge Design Section until he was transferred to the Bega Divisional Office in 1948. He remained there until 1953 when he was appointed Officer-in-Charge at Windsor Works Office.

Mr. Schmidt's next country move, in 1955, was to Goulburn where, as Supervising Engineer, he was appointed Senior Assistant to the Divisional Engineer.

In 1960 he became the Divisional Engineer at Wagga Wagga. After two years he returned to Sydney as the Assistant Metropolitan Engineer. During this five year period of his career, Mr. Schmidt was principally associated with the administration and supervision of major bridge construction, notably the Gladesville, Captain Cook and Roseville Bridges.

After serving a brief six months as Metropolitan Engineer, Mr. Schmidt was appointed Assistant Commissioner for Main Roads on 26 August 1967. In this capacity, Mr. Schmidt was a member of both the Campbelltown Development Committee of the State Planning Authority and the Council of the Post Graduate Civil Engineering Foundation of the University of Sydney.

As Commissioner, Mr. Schmidt was officially involved in the membership of a number of transport bodies. These included the National Association of Australian State Road Authorities (NAASRA), the Australian Road Research Board (ARRB), the Urban Transport Advisory Committee (URTAC) and the Traffic Authority of New South Wales.

Mr. Schmidt holds a Bachelor of Engineering Degree (Mechanical and Electrical) from the University of Sydney and is a Fellow of the Institute of Engineers Australia, a Fellow of the Chartered Institute of Transport and a Fellow of the Royal Institute of Public Administration.

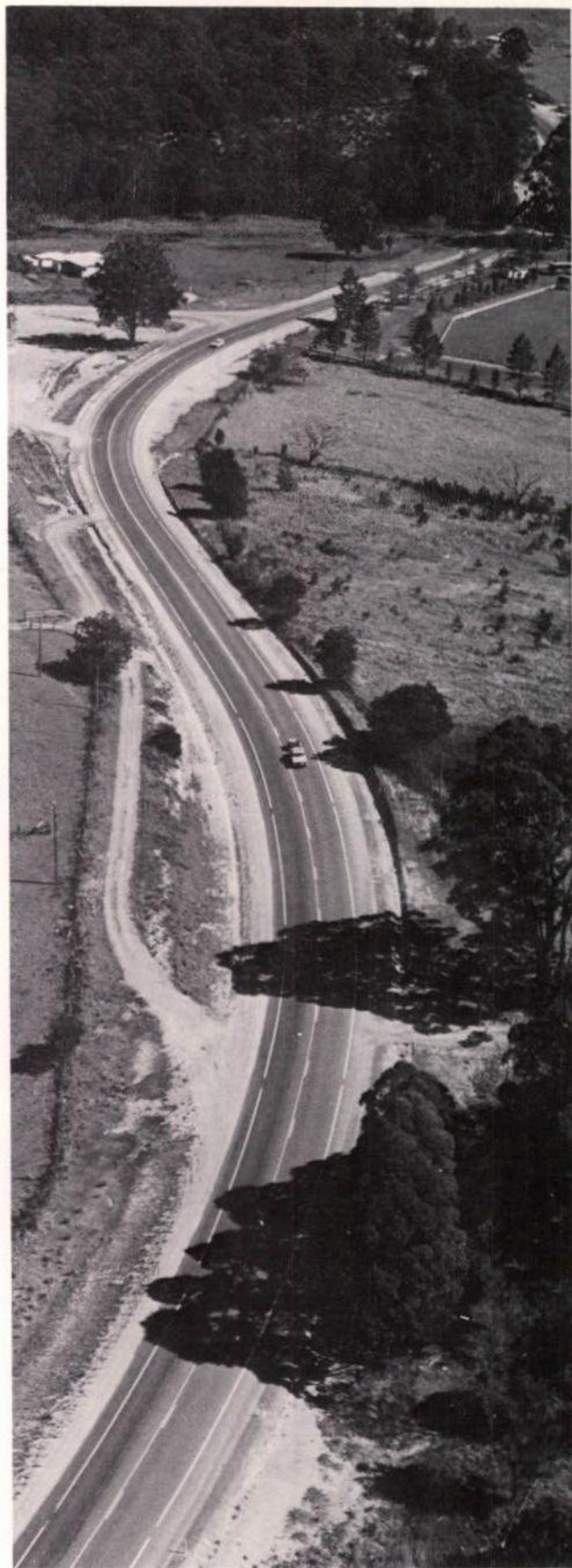
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## appointment of successor

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Mr. Brian Joseph Sexton, BE, FIE (Aust), FCIT, was appointed Acting Commissioner for Main Roads from 6 October 1977 until 16 December 1977, on which day he was formally appointed to the office of Commissioner for Main Roads. Mr. Sexton had previously been Assistant Commissioner from 26 August 1974 and Deputy Commissioner from 31 January 1976.

The appointment of a Deputy Commissioner was deferred, pending a review of the Department's Top Management Structure by the Review of New South Wales Government Administration, with Professor P.S. Wilenski as Commissioner. Pending this review, the Department's Engineer-in-Chief, Mr. D.C. Jacob, BE, MIE(Aust), MAIT, was appointed as Acting Deputy Commissioner.



Completed section of Pacific Highway at Eungai, north of Kempsey, following reconstruction.



## freeway construction

### F1 — Warringah Freeway

The construction of the second stage of the Warringah Freeway between Miller Street and Willoughby Road continued during the year.

It is expected that this section of the Warringah Freeway will be available to traffic about the end of September 1978.

Two major traffic route alterations were made during the year. The first (in October 1977) followed the closure of Chandos Street, Cammeray to northbound traffic. The traffic was diverted through a major cutting at Chandos Street directly to an off-loading ramp leading to Brook Street, Cammeray. The second (in May 1978) was the diversion of Willoughby Road traffic on to a new alignment following the reconstruction of the intersection of Willoughby Road with the Freeway.

A pedestrian overbridge linking Willoughby Road and Slade Street-Rhodes Avenue was brought into service during August 1977.

### F3 — North Western Freeway

Work on the section of the North Western Freeway between Erskine Street, City and Harris Street, Pyrmont continued during the year.

As work on columns and headstocks was substantially completed increased attention was directed to the construction of concrete and concrete/steel composite decks by both direct control and contract.

During the year the New South Wales State Dockyards completed a major contract for the fabrication and supply of steel girders.

Work also continued on the proposed deviation of Day Street and major reconstruction of roadways at the eastern terminal.

### F3 — Sydney-Newcastle Freeway

Work commenced partly by contract and partly by direct control on the section of the Freeway between Ourimbah Creek and Wyong River.

Site investigation and design continued for the section from Wyong River to Wyee Bifurcation (including the motorway link to Doyalson).

Site investigation and design commenced on the section from Mt. White to Somersby and Wyee Bifurcation to Dora Creek.

### F4 — Western Freeway

Due to limitation in funds construction of the Western Freeway was generally deferred with the exception of construction of Haslams Creek Eastbound Bridge, completed in May 1978, and major public utility adjustments and minor earthworks.

### F5 — South Western Freeway

Work continued on the section from Kenny Hill (54.4 km) to the Nepean River at Pheasants Nest (77.2 km south of Sydney).

Work continued on the section from the Nepean River at Pheasants Nest to Yanderra by contract and by direct control.

### F6 — Southern Freeway

Work recommenced on the interchange at Gladstone Avenue to complete the connection to Springhill Road (Main Road No. 568) via Masters Road.

Work proceeded on the section of the Freeway between Northcliffe Drive (Main Road No. 613) at Berkeley and Kanahooka Road, Dapto including the approaches to the new Mullet Creek bridges and the bridges over Northcliffe Drive.

The viaduct on the North Western Freeway across Darling Harbour railway goods yard is taking shape with the construction of the deck.





# road construction

## county of cumberland

### **State Highway No. 1 — Princes Highway**

Extensive surface and subsoil drainage works were carried out near the upper section of the Bulli Pass to assist in stabilising the area.

### **State Highway No. 2 — Hume Highway**

Major improvements to the junction area at the intersection of the Highway and Main Road No. 178 at Narellan were completed. The work commences on the Highway approximately 54.7 km south of Sydney and extends southward for approximately 1 km.

The junction features a bridge carrying northbound traffic over the intersection, two lane carriageways in each direction and island medians to improve the traffic flow.

### **State Highway No. 5 — Great Western Highway**

Replacement of broken concrete slabs between Marlborough Road, Homebush West and Berry Street, Granville was completed on Parramatta Road.

Construction of a climbing lane at Pritchard Street, Wentworth Falls was completed, with the exception of channelisation of the intersection at Pritchard Street.

### **State Highway No. 10 — Pacific Highway**

Construction of additional lanes between Ryde Road and Bridge Street, Pymble to provide three through lanes and a right turn storage lane at Ryde Road was completed.

Reconstruction in concrete of damaged pavement continued between Cam Street and College Crescent, Waitara.

### **State Highway No. 13 — Pennant Hills Road**

Widening commenced to provide six lanes, plus median, through Carlingford Shopping Centre, including channelisation of traffic signal controlled intersections at Marsden Road (Main Road No. 158) and Carlingford Road (Main Road No. 373).

### **Main Road No. 154 — Bringelly Road**

Liverpool City Council completed construction of the approaches to the new bridge over Thompsons Creek at Bringelly.

### **Main Road No. 162 — Lane Cove Road**

The Department completed reconstruction, channelisation and provision of traffic signals at the intersection with Waterloo Road, North Ryde. This work was carried out in conjunction with the widening of Waterloo Road by Ryde Municipal Council.

### **Main Road No. 162 — Mona Vale Road**

Work was substantially completed between Ayres Road and First Rocks. Work is proceeding on the south bound carriageway between Killeaton Street and Ayres Road.

Six traffic lanes are in service between Bromley Avenue, Pymble and Cowan Road, St. Ives. Work is well advanced on retaining walls and public utility adjustments between Highlands Avenue and Bromley Street, Pymble. This work will provide for six traffic lanes.

### **Main Road No. 170 — Botany Road**

A detour around Botany Road and Beauchamp Road intersection was completed.

Work commenced on reinforced earth walls required for a railway overpass at the junction of Botany Road and Beauchamp Road.

The first stage of the extension of Botany Road to Bunnerong Road was opened to traffic in December 1977.

### **Main Road No. 172 — Bondi Junction By-Pass**

Work on the Bondi Junction By-Pass between Moncur Street and Bondi Road at Bondi Junction continued and is planned for completion by January 1979 to coincide with the opening of the Eastern Suburbs Railway under construction by the Public Transport Commission.

The Department completed the substructure of a major viaduct between Vernon Street and Adelaide Street and a major contract is in hand for the manufacture and placing of girders for the deck of the viaduct.

Approach roadworks completed during the year include a number of reinforced earth and mass concrete retaining walls and various contracts were let for concrete coping and pavement works.

### **Main Road No. 173 — New South Head Road**

Stage 1 of reconstruction and widening the intersection with Ocean Street and Ocean Avenue was completed on schedule. Work involved the construction of three lanes over the western half of the Public Transport Commission tunnel under Ocean Street. The work required detailed programming in order to co-ordinate adjustments to all public utilities and to comply with the timetable developed in conjunction with the Public Transport Commission.

The end of November 1978 has been set as the deadline for completion of Stages 2 and 3 in order to allow the Eastern Suburbs Railway to be opened as planned in January 1979.

### **Main Road No. 190 — Rookwood Road-Joseph Street**

Reconstruction of the dual carriageway from Boardman Street to Lloyd Avenue at Yagoona was completed.

Auburn Municipal Council continued reconstruction to provide dual carriageways from the Bankstown Municipal Boundary (Lewis Street) to Leila Street at Lidcombe.

### **Main Road No. 309 — Aston Street**

Reconstruction of dual carriageways from Eleanor Street to Hassall Street at Rosehill was completed.

### **Main Road No. 373 — Epping Road**

Work continued on construction of dual carriageways between Delhi Road (Main Road No. 191) and Shrimptons Creek at North Ryde, including the new interchange at the intersection of Epping Road and Lane Cove Road (Main Road No. 162). It is planned that the interchange will be available to traffic towards the end of July 1978.

### **Main Road No. 512 — Heathcote Road**

A 1.25 km length of climbing lane between the Princes Highway and New Illawarra Road was opened to traffic in December 1977.

### **Main Road No. 515 — Elizabeth Drive**

Reconstruction and widening to six lanes between Copeland Street (Main Road No. 608) and Maxwells Avenue, Mount Pritchard continued.

### **Main Road No. 609 — The Horsley Drive**

Reconstruction and widening continued for the provision of four traffic lanes between Fairfield Street and Alan Street at Fairfield. This work was carried out in conjunction with the widening of the existing railway overbridge at Fairfield.

### **Main Road No. 617 — Foreshore Road**

Construction of a concrete road from Botany Road to General Holmes Drive was commenced.





Construction of the interchange of the new Foreshore Road (skirting the northern side of Botany Bay) with General Holmes Drive is well advanced.

#### County Road No. 5016

Construction commenced on the deviation between Clancy Street and Alma Road at Padstow. This work forms part of the connection between Davies Road and the northern approach to Alfords Point Bridge.

#### County Road No. 5037 — North Parramatta By-Pass

The section between Victoria Road (Main Road No. 165), Rydalmere and Pennant Hills Road (State Highway No. 13), North Parramatta was opened to traffic.

Construction continued on the section between Pennant Hills Road (State Highway No. 13), North Parramatta and Windsor Road (Main Road No. 184) at Northmead, including provision of bridges at Pennant Hills Road, Lackey Street, North Rocks Road and Darling Mills Creek.

## country

#### State Highway No. 1 — Princes Highway

Work commenced on reconstruction to provide four lanes over a length of 4 km on an improved alignment to eliminate a winding section of road 3.3 km to 7.3 km south of Kiama.

Reconstruction at Meroo Meadow from 6.3 km to 9.5 km north of Nowra was completed.

Reconstruction of the section 2.7 km to 9.0 km south of Bega was continued.

Construction of the climbing lane between 55.1 km and 56.1 km south of Bega was completed.

#### State Highway No. 2 — Hume Highway

Reconstruction between the South Western Freeway (F5) at Aylmerton and Mittagong to provide four lanes between 117.0 km and 123.1 km south of Sydney was continued.

Construction of dual carriageways on a deviation between Exeter Road and Paddys River from 154.3 km to 164.8 km south of Sydney was continued.

Construction of dual carriageways on an improved alignment between Paddys River and Uringalla Creek from 165.9 km to 169.4 km south of Sydney was completed.

Construction of dual carriageways, 3.5 km long, in association with construction of dual carriageway bridges over the Main Southern Railway Line at Mulwaree Ponds and the Crookwell Railway Line at North Goulburn, was completed.

Construction of the approaches to the new bridge over the Yass River at Yass, was completed.

The extension of dual carriageways between 6.4 km and 10.6 km west of Yass was completed. The completion of this section provides continuous dual carriageways for a total distance of 10 km.

The strengthening of the pavement on the Bowring Deviation 12.0 km to 16.4 km west of Yass was commenced. Extensive sub-surface drainage works are proposed to provide a stable pavement.

Work commenced between 32.1 km and 39.3 km west of Yass on the extension of re-alignment work on the approaches to the new bridge over Connors Creek 35 km west of Yass.



Construction of the approaches to the new bridge over the Murrumbidgee River at Gundagai was continued.

Formation of the northern approaches to the proposed new bridge over Jessups Lagoon, 4.3 km south of Gundagai as a continuation of the dual carriageways on the southern approach to the new bridge over the Murrumbidgee River at Gundagai was commenced.

Widening and strengthening of the pavement on the existing alignment and grade is continuing between 28 km and 37 km south of Gundagai.

The realignment and reconstruction of the section between 3.6 km and 20.4 km south of Tarcutta continued including the approaches to Comatawa Creek Bridge which was opened to traffic.

#### **State Highway No. 3 — Federal Highway**

Construction of dual carriageways between 14.3 km and 22.2 km south of Goulburn was completed.

#### **State Highway No. 4 — Snowy Mountains Highway**

Reconstruction between 0.75 km and 5.9 km east of Tumut commenced.

#### **State Highway No. 5 — Great Western Highway**

Construction of the approaches to Marrangaroo Creek Bridge 2.3 km to 6.1 km west of Lithgow continued.

Construction of the approaches to a new bridge over the River Lett was completed.

#### **State Highway No. 7 — Mitchell Highway**

Construction of approaches to a new bridge over Molong Creek at Erambie from 28.1 km to 29.4 km west of Orange is in progress.

Pavement strengthening and widening is in progress at various locations from 38.6 km to 46.2 km north of Molong.

Reconstruction and bituminous surfacing was completed from 57.9 km to 63.1 km north of Molong.

Reconstruction and bituminous surfacing of the pavement was completed at the level crossing at Trangle.

#### **State Highway No. 8 — Barrier Highway**

Reconstruction and widening was completed from 86.4 km to 108.5 km west of Nyngan.

The construction of approaches to four bridges over the Darling River Flood Plain 1.0 km to 7.0 km east of Wilcannia was completed.

#### **State Highway No. 9 — New England Highway**

Major reconstruction work to provide dual carriageways over the first Moonbi Range, 24.9 km to 30.1 km north of Tamworth was continued.

Widening shoulders and extension of culverts on the section from 33.8 km to 36.2 km north of Tamworth was completed.

Construction of a deviation between Uralla and Barleyfields continued.

Reconstruction between 2.4 km and 3.8 km, and between 5.8 km and 9.6 km north of Glen Innes was completed.

Reconstruction between 83.8 km and 89.1 km north of Glen Innes is continuing.

#### **State Highway No. 10 — Pacific Highway**

Construction of a second carriageway to provide dual two-lane divided carriageways between Doyalson and Gwandalan was commenced.

Pavement widening and construction of dual carriageways was commenced between Swansea Bridge and Docker Street, Marks Point.

Construction of a deviation on the approaches to a new bridge at Two Mile Creek was completed.

Construction of a deviation over the Cooperabung Mountain was completed.

The reconstruction and widening of distressed pavement at Eungai continued.

Reconstruction and bituminous sealing of a deviation at Double Crossing Creek continued.

#### **State Highway No. 11 — Oxley Highway**

Work on the section 46.2 km to 52.6 km west of Gunnedah is progressing and a length of 2.5 km was opened to traffic. This section has a temporary sand prime seal.

#### **State Highway No. 12 — Gwydir Highway**

Reinstatement of failed sections between 22.9 km and 69.5 km west of Grafton was completed.

Reconstruction between 59.6 km and 64.4 km west of Moree was completed and work was commenced on the reconstruction of the adjoining section between 64.4 km and 71.4 km.

#### **State Highway No. 14 — Sturt Highway**

Work was completed to sand primer seal stage of the reconstruction and bituminous surfacing 32.5 km to 41.8 km west of Euston.

Construction and bituminous surfacing of a deviation of the highway 41.8 km to 45.6 km west of Euston was completed.

#### **State Highway No. 15 — Barton Highway**

Work by Departmental direct control on a programme of pavement strengthening and formation widening was continued. Reconstruction was completed between 22.4 km and 24.2 km south of Yass, shoulder widening and drainage works between 33.9 km and 36.7 km south of Yass, and minor realignment, formation widening and pavement strengthening between 26.4 km and 28.0 km south of Yass.

There is a continuing programme of works throughout the length of this national highway to strengthen and widen the pavement and improve the drainage and alignment and grading of the road.

#### **State Highway No. 17 — Newell Highway**

Reconstruction and bituminous surfacing between 0.4 km and 8.4 km north-west of Boggabilla was completed.

Construction of approaches to the newly constructed bridge over Narrabri Creek together with widening of the approaches of the existing adjacent bridge over Narrabri Rivulet in Narrabri was completed.

#### **State Highway No. 18 — Castlereagh Highway**

Reconstruction and pavement widening including the construction of an additional floodway is in progress south of Walgett between 109.4 km and 115.7 km north of Coonamble.

Reconstruction between 80.5 km and 103.0 km north of Walgett was completed.

#### **State Highway No. 19 — Monaro Highway**

Work continued on the reconstruction of the section from 78.8 km to 82.0 km south of Canberra which includes the approaches to a new bridge over the Bredbo River at Bredbo.

Construction of the length between 82.0 km and 89.0 km south of Canberra was completed.



**State Highway No. 25 — Illawarra Highway**

Reconstruction to an improved alignment and grading from 58.9 km the 63.9 km from the Princes Highway between Wells Creek and the Hume Highway including the improvement to the intersection with the Hume Highway was completed.

**Trunk Road No. 95 — Mt. Ousley Road**

Reconstruction to provide four lanes on a 5.5 km length from the junction with Main Road No. 513 and The Link Road to the Southern Freeway (F6) at Gwynneville continued.

**Trunk Road No. 95 — Mt. Keira Road**

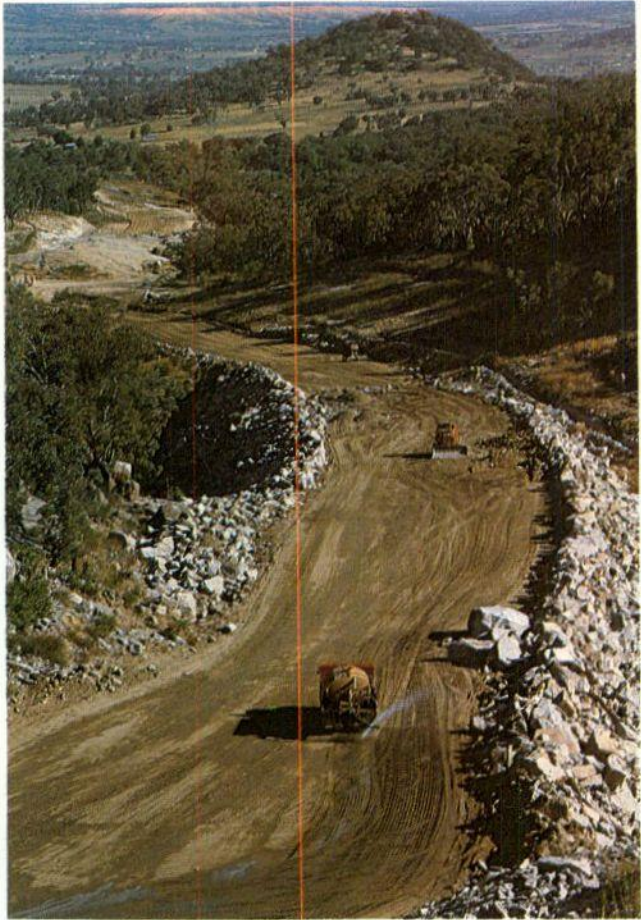
Strengthening and widening of the pavement and formation between 18.1 km and 23.9 km from Wollongong was completed.

Work is proceeding on a deviation for the new Maldon Bridge over the Nepean River between 35.0 km and 44.5 km from Wollongong. The deviation will provide a much improved alignment and grading and includes an interchange with the South Western Freeway (F5).

**Main Road No. 513 — Mt. Ousley Road**

Construction to provide four lanes between Bellambi Creek and the junction with Trunk Road No. 95 at The Link Road including a deviation at Cataract Creek continued.

Major reconstruction work now in progress on the first Moonbi Range will provide dual carriageways on the New England Highway 25 km to 30 km north of Tamworth.



bridge construction

During the year 47 bridges, 8 bridge size box culverts (i.e. box culverts with a waterway width of 6m or more) and 3 pedestrian structures were made available to traffic. In addition 9 structures were widened 3 of which were widened for extra lanes and 1 bridge was reconstructed by replacing the timber piers in concrete construction.

The 68 bridgeworks of various types which were completed and opened to traffic during 1977-78, are situated on roads of various classifications as set out in Table 1.

At the end of the year 26 bridges, 16 bridge size box culverts and the widening of 4 structures (2 of which were widened for extra lanes) were completed but not opened to traffic and are situated on roads of various classifications as set out in Table 2.

Also at the end of the year 63 bridges, 10 bridge size box culverts, 1 tunnel and the widening of 9 structures (5 of which are being widened for extra lanes), were in progress and are situated on roads of various classifications as set out in Table 3.

Table 1

	Bridges	Bridge Size Box Culverts	Pedestrian Structures	Widenings			Total
				Extra Lanes	No Extra Lanes	Reconstruction	
Freeways .....	4	—	2	—	—	—	6
State Highways .....	19	1	1	2	6	—	29
Trunk Roads .....	7	3	—	—	—	—	10
Main Roads .....	15	3	—	1	—	1	20
Developmental Roads, Developmental Works and Unclassified Roads .....	2	1	—	—	—	—	3
Total .....	47	8	3	3	6	1	68



Table 2

	Bridges	Bridge Size Box Culverts	Widenings		Total
			Extra Lanes	No Extra Lanes	
Freeways.....	16	1	—	—	17
State Highways.....	4	11	1	2	18
Trunk Roads.....	1	2	—	—	3
Main Roads.....	3	2	1	—	6
County Roads.....	2	—	—	—	2
Total.....	26	16	2	2	46

Table 3

	Bridges	Bridge Size Box Culverts	Widenings		Tunnel	Total
			Extra Lanes	No Extra Lanes		
Freeways.....	19	3	—	—	—	22
State Highways.....	17	3	4	4	—	28
Trunk Roads.....	2	1	—	—	—	3
Main Roads.....	21	3	1	—	1	26
Developmental Roads, Developmental Works and Unclassified Roads.....	2	—	—	—	—	2
County Roads.....	2	—	—	—	—	2
Total.....	63	10	5	4	1	83

principal bridgeworks completed during the year and opened to traffic

#### F1 — Warringah Freeway

The Department completed construction by contract of a two span prestressed concrete girder bridge over the Warringah Freeway at West Street, North Sydney. The new structure is 58 m long and provides two traffic lanes and two footways.

#### F4 — Western Freeway

The Department completed construction by contract of a two span steel truss service bridge over Haslams Creek Stormwater Channel. The new structure is 68.3 m long and carries public utilities.

The Department completed construction by its own forces of an 11 span prestressed concrete suspended girder (main spans) and prestressed concrete slab (approach slabs) pedestrian bridge over the Freeway at Melton Street, Auburn. The new structure is 117.9 m long.

#### F5 — South Western Freeway

The Department completed construction by its own forces of a four span prestressed concrete bridge over the Freeway at Minto Road, Glenlee. The new bridge is 80.0 m long and provides two traffic lanes.

#### State Highway No. 2 — Hume Highway

The Department completed construction by contract of a three span prestressed concrete girder bridge over Deringullen Creek, 6.6 km south of Yass. The new structure is 57.9 m long and provides two traffic lanes for northbound traffic on a section of dual carriageway.

The Department completed construction by contract of a four span prestressed concrete girder bridge over the Fish River 45.1 km west of Goulburn. The new structure is

85.3 m long and provides two traffic lanes and replaces a timber beam bridge 75.2 m long.

The Department completed construction by contract of a three span composite steel trough girder bridge over the Yass River (Hume Bridge) at Yass. The new structure is 101.1 m long and provides two traffic lanes and two footways and replaces a timber and steel bridge 86 m long.

The Department completed construction by its own forces of a three span prestressed concrete girder bridge for northbound traffic over Main Road No. 178 at Narellan. The new structure is 46.6 m long and provides three traffic lanes and is on a deviation of the Highway.

#### State Highway No. 8 — Barrier Highway

The Department completed construction by contract of four prestressed concrete bridges over the Darling River Flood Plain at 1.6 km, 3.7 km, 5.9 km and 6.4 km east of Wilcannia, having five, four, eight and eight spans respectively. The new structures are 30.5 m, 24.4 m, 48.8 m and 48.8 m long respectively, provide two traffic lanes and replace causeways.

#### State Highway No. 17 — Newell Highway

The Department completed construction by contract of a nine span prestressed concrete girder bridge over Narrabri Creek at Narrabri and widening of the existing bridge over Narrabri Rivulet. The new structure is 179.8 m long, and provides two traffic lanes and replaces a timber truss bridge 120 m long.

#### Trunk Road No. 72

Tamarang Shire Council completed construction by contract of a five span prestressed concrete girder bridge over Quipolly Creek 14.7 km north of Quirindi. The new structure is 75 m long and provides two traffic lanes and replaces a timber beam bridge 23.8 m long.



#### **Trunk Road No. 75**

Kempsey Shire Council completed construction by contract, of a three span prestressed concrete girder bridge over Hickeys Creek 31.8 km west of Kempsey. The new structure is 64 m long, provides two traffic lanes and replaces a one lane timber bridge, 43.3 m long which was subject to flooding.

#### **Trunk Road No. 77**

Coolah Shire Council completed construction by contract of a three span steel beam and reinforced concrete bridge over Merrygoen Creek at Mendooran. The new structure is 64.6 m long, provides two traffic lanes, and replaces a timber beam bridge 40 m long.

#### **Main Road No. 154**

Camden Municipal Council completed construction by contract of a four span prestressed concrete plank bridge over Narellan Creek, 1.6 km from the Hume Highway.

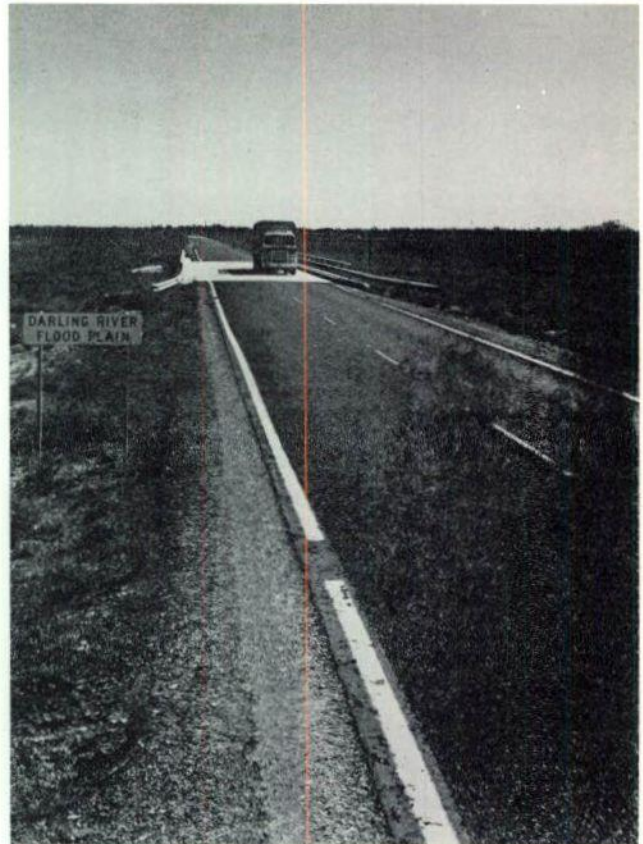
The new structure is 42.9 m long, provides two traffic lanes and replaces an old timber bridge 8.2 m long.

#### **Main Road No. 405**

The Department completed construction by contract of two composite steel girder and reinforced concrete bridges over the Paroo Bywashes Nos. 1 and 2 at Wanaaring. Each new bridge is 61 m long, has five spans and provides two traffic lanes. They replace two timber beam bridges 62 m and 55 m long respectively.

#### **Main Road No. 600**

Hastings Shire Council completed construction by its own forces of a seven span prestressed concrete girder bridge over Fernbank Creek 8 km north of Port Macquarie. The new structure is 75.5 m long, provides two traffic lanes and replaces a timber beam bridge 18.3 m long.



One of the four new bridges over the Darling River Flood Plain on the Barrier Highway, 6.4 km east of Wilcannia.

## **maintenance**

### **roads**

The maintenance of roads, in particular those located on the Western Slopes and Plains, has been made difficult because of the persistent rain during January, February, March and June 1978. In general, watertables in these areas have risen and roads have shown marked deterioration under traffic. While much maintenance work has been carried out during 1977-78 it is considered that restoration work in some cases will not be completed until late in 1978.

In the Metropolitan Area, work continued throughout the year on the maintenance and improvement of road conditions. Skid resistant road surfacing was placed on sections of Main Road No. 599 (Eastern Valley Way) and Main Road No. 592 (Cahill Expressway). In addition, an extensive programme of pavement re-sheeting and strengthening of roads by the use of bituminous concrete overlays was continued.

The emphasis by the Department in the past few years on the resealing of country highways is now achieving beneficial results by a reduction generally in pavement failures and a general improvement in road surfaces. The cost of maintaining road shoulders and restoring pavement edgewear is however increasing because of traffic growth.

The main roads under the care and control of Councils were, in general, maintained in a satisfactory condition throughout the year.

### **bridges**

At the end of the year there were 5,672 bridges with a total length of 194.5 km of all types on classified roads in this State.

Bridge maintenance during 1977-78 was carried out by the Department and Councils. The Department generally undertook the work on State Highways, Ex-National Bridges and Special Subsidy Works.

The work consisted of the replacement of worn out decking and longitudinal sheeting on timber bridges together with repair or replacement of damaged trusses, and members such as piles, girders and bracings. Major flood conditions experienced throughout the year added greatly to maintenance commitments and caused extensive damage to several bridges.

Repainting of steel structures, timber trusses and hand-rails and regular inspections of timber, steel and concrete bridges were continued.

There were 11 vehicular ferry crossings in which the Department was financially involved; of these, three were operated by the Department's own organisation, three by contract to the Department and five by contract to Councils.

Funds provided for bridge maintenance and the caretaking and operation of vehicular ferries by the Department in 1977-78 totalled \$9,840,000.







## the year at a glance

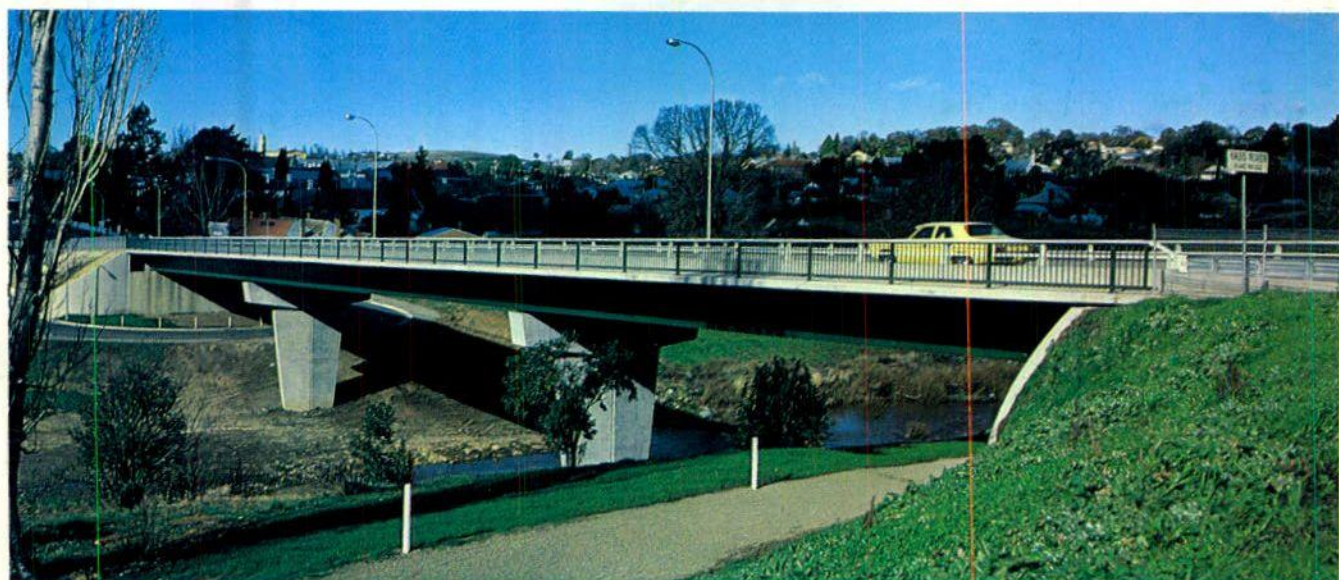
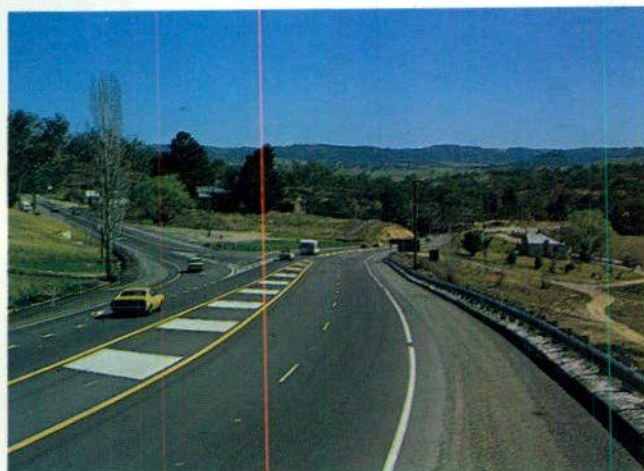
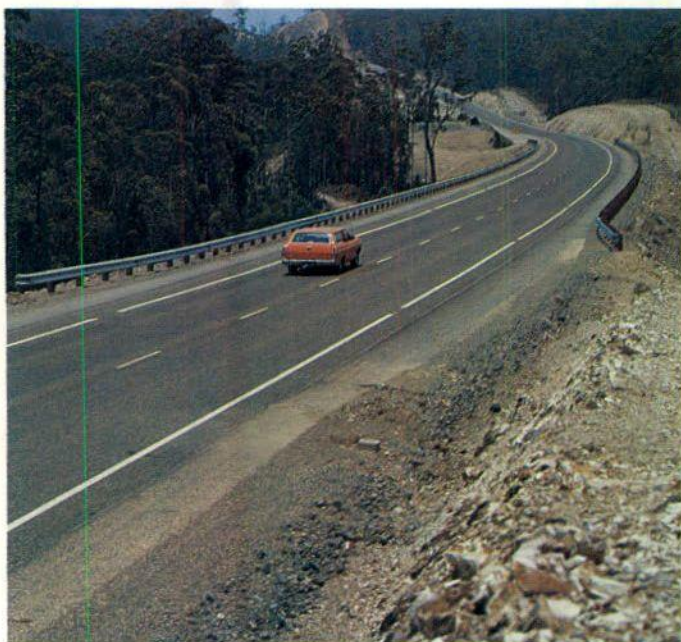
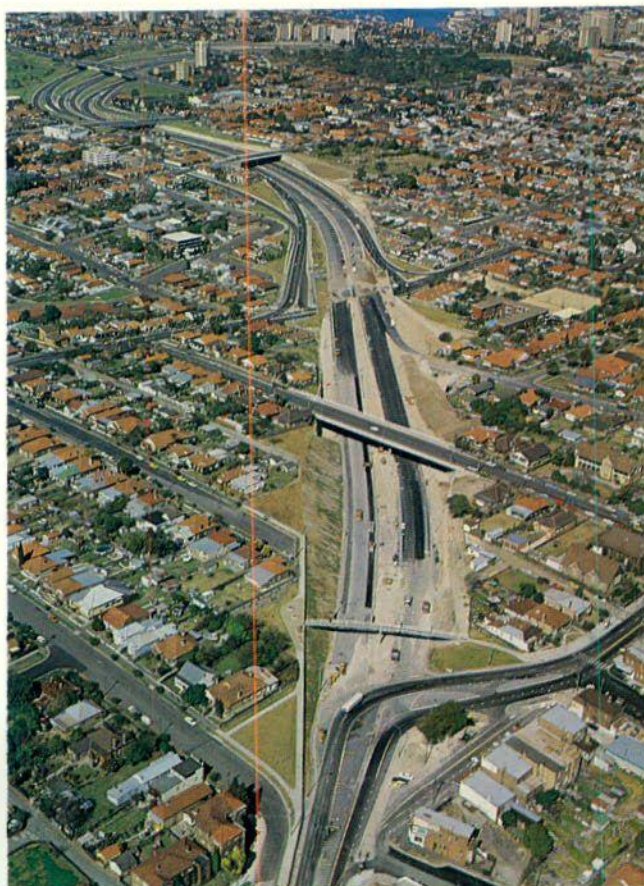
**Left:** This new nine-span prestressed concrete bridge over Narrabri Creek on the Newell Highway at Narrabri was opened to traffic on 16 September 1977.

**Lower left:** The recently constructed deviation of the Pacific Highway over the Cooperabung Mountain north of Telegraph Point has eliminated many kilometres of narrow road and numerous low-speed small-radius curves.

**Top right:** Construction of the second stage of the Warringah Freeway from Miller Street, Cammeray, to Willoughby Road, Naremburn continued during the year and is expected to be available to traffic in September 1978.

**Centre right:** The approaches to the new bridge over the River Lett on a deviation of the Great Western Highway includes an improved intersection with Main Road No. 253 to Oberon.

**Bottom:** "Hume Bridge" over the Yass River at Yass was opened to traffic on 15 October 1977. The new structure is 101 m long and provides two traffic lanes and two footways.





## road classifications and distances

The total distance of Freeways, State Highways, Trunk Roads, Main Roads, Secondary Roads, Tourist Roads, Developmental Roads and Unclassified Roads for which the Commissioner for Main Roads is responsible is 42 781 km.

The distances of roads within the various classifications as at 30 June 1978, were:

Freeways	127 km
State Highways	10 471 km
Trunk Roads	7 103 km
Main Roads	18 400 km
Secondary Roads	287 km
Tourist Roads	426 km
Developmental Roads	3 486 km
Unclassified Roads	2 398 km
(in the unincorporated area of the Western Division)	
Unclassified Roads	83 km
(in the incorporated area of New South Wales)	
Total	42 781 km

The lengths of the various types of surfaces of Main Roads throughout the State as at 30 June 1978, were:

Natural Surface	917 km
Formed only	6 448 km
Gravel	10 317 km
Primed only	24 km
Primer Seal	233 km
Sprayed Seal	22 008 km
Enrichment Reseal	440 km
Slurry Seal	14 km
Asphalt	2 231 km
Cement Concrete	149 km
Total	42 781 km

## bituminous surfacing

### asphalt production and laying

The total quantity of asphalt used by the Department on works under its direct control was 468 764 tonnes, a decrease of 13 474 tonnes on last year's usage. The growth in asphalt usage over the last 25 years is illustrated in the graph on page 25.

#### Central Asphalt Depot

Central Asphalt Depot produced 336 237 tonnes of asphalt, a decrease of 1 342 tonnes on last year's record production. Due to exceptionally high demands between July and December 1977, 218 564 tonnes, i.e., 65% of the years output was produced: this was a record six months' output. Almost all of the asphalt was produced in the Department's 400 tonnes per hour batch plant which operated very efficiently and economically during the year, with minimal down time.

The asphalt produced at Central Asphalt Depot was delivered by road to construction and maintenance works within a radius of about 120 km from Sydney. The Department employed a haulage fleet of 30 Departmental and up to 90 Lorry Owner/Driver tipping trucks with capacities ranging from 12 to 16 tonnes. Studies were undertaken during the year to develop the most efficient size and type of vehicle for asphalt haulage and the most economical method of managing the haulage fleet.

Six asphalt paving teams were employed in placing asphalt on roads within Sydney and surrounding areas, i.e., within the range of supply from the Central Asphalt Depot. Four of these teams were controlled by Central Asphalt Depot and one each by the Metropolitan and Parramatta Divisions.

#### Mobile Asphalt Unit

The Mobile Asphalt Unit, which comprises a 35 tonnes per hour batch mixing plant, a paving team and ancillary plant, produced and laid 38 030 tonnes of asphalt during the year, an increase of 5 157 tonnes over last year's production. The years production was a record: 3 010 tonnes greater than the previous record annual production of 35 020 tonnes in 1975-76.

Between July and November 1977, the Unit was located near Holbrook where it produced and laid 16 044 tonnes of asphalt on the Hume Highway (State Highway No. 2).

Between November 1977 and June 1978, the Unit was located at Penrose Forest, about 36 km south of Mittagong, where it produced and laid 21 986 tonnes of asphalt, mostly on newly constructed deviations of the Hume Highway (State Highway No. 2), between Exeter and Urin-galla Creek.

#### Bellambi Asphalt Unit

The Bellambi Unit, which comprises a 25 tonnes per hour batch mixing plant, and a paving team, produced and laid 18 119 tonnes of asphalt during the year: a decrease of 9 121 tonnes on last year's production.

This asphalt was used on various construction and maintenance works in the Illawarra Division.

#### Contract Asphalt Works

Contractors supplied and delivered 18 353 tonnes of asphalt in Sydney and surrounding areas to supplement supplies from the Department's own plants. This supply was required to meet some peak demands but principally because of the convenient locations of contract plants to some of the Department's works.

Contracts were also let for the supply and laying of 58 025 tonnes of asphalt on various construction and maintenance works in country divisions.

The total quantity of asphalt produced by contract plants was 76 378 tonnes, a decrease of 8 168 tonnes on last year's production.

### sprayed bituminous surfacing

The Department operated nine complete bituminous surfacing units, each comprising a 5 500 litre capacity self-propelled bitumen sprayer, aggregate loaders, aggregate spreaders, rollers, trucks and ancillary plant. One of these units was based at the Central Asphalt Depot for use by the seven divisions surrounding Sydney. The other eight units were based in country divisions.

A further nine smaller, 2 250 litre capacity, trailer or skid mounted bitumen sprayers were operated in divisions for priming, primer-sealing and patching works.

The quantity of bitumen sprayed by the Department's units was 10 519 277 litres. A further quantity of 2 834 777 litres was sprayed in the Department's direct control works by contractors making the total quantity of bitumen sprayed on the Department's works 13 354 054 litres.



## bitumen usage

The total quantity of bitumen used by the Department on direct control works was 30 420 754 litres comprising 13 354 054 litres sprayed and a further 17 066 700 litres used in manufacture of asphalt.

## bituminous surfacing lengths

The total length of dust free surface on Freeways, State Highways, Trunk Roads, Main Roads, Secondary Roads, Tourist Roads, Developmental Roads and Unclassified Roads for which the Commissioner for Main Roads is responsible is now 25 099 km.

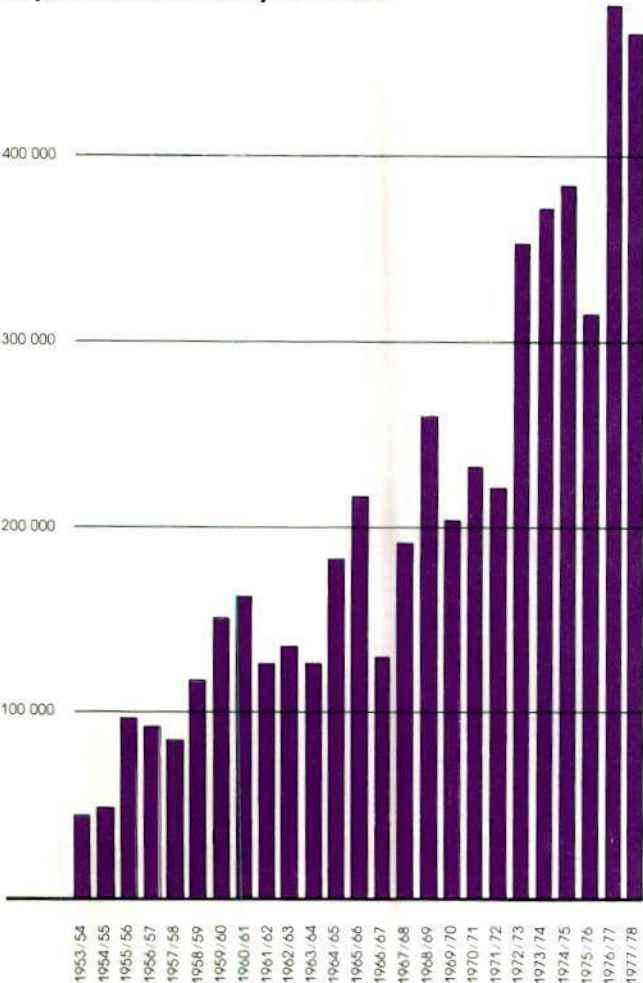
Bituminous surfacing work was carried out on:

Freeways	13 km
State Highways	1 325 km
Trunk Roads	493 km
Main Roads	801 km
Secondary Roads	25 km
Tourist Roads	23 km
Unclassified Roads	8 km

The total length of surfacing completed was 2 688 km which involved 5 649 lane km or the equivalent of 2 825 km of normal two lane road.

The Department was the authority for 1 379 km (2 952 lane km) of surfacing of which 1 256 km (2 691 lane km) were done by direct control and 123 km (261 lane km) by contract.

### Asphalt used Annually in tonnes



Councils were the constructing authority for 1 309 km (2 698 lane km) surfacing of which 200 km (439 lane km) were done by direct control and 1 109 km (2 258 lane km) by contract.

The work comprised:

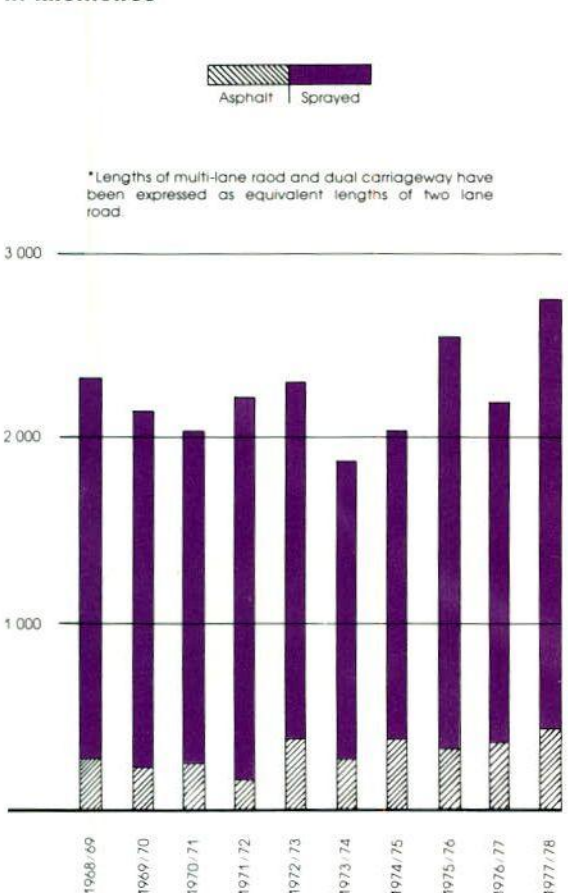
Asphalt Surfacing	237 km
Bitumen Enrichment	84 km
Sprayed Seal	2 312 km
Primer Seal	39 km
Prime	15 km

The bituminous surfacing work during the year may be divided into four categories:

1. Initial treatment — of 124 km (251 lane km) of road not previously provided with a dust free surface.
2. Heavier Treatment — either sprayed seals or asphalt surfacing provided on 50 km (103 lane km) or road previously provided with a light treatment such as prime or primer-seal.
3. Restoration — of bituminous surfacing following reconstruction:
  - (a) to widen and/or strengthen the pavement on 351 km (726 lane km),
  - (b) to provide additional lanes or dual carriageway on 33 km (91 lane km), and
  - (c) to improve alignment and/or grading on 197 km (429 lane km).
4. Maintenance Resurfacing — of 1 932 km (4 050 lane km) of road pavement.

The lengths of bituminous surfacing carried out annually by the Department over the last 10 years is illustrated in the graph below.

### Lengths of Road Bituminous Surfaced Annually\* in kilometres



\*Lengths of multi-lane road and dual carriageway have been expressed as equivalent lengths of two lane road.



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## advance planning

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Taking and updating roads and structures data inventory continued to be an essential part of the Department's activities in connection with planning for the future needs of the State's Main Roads System.

During the year, two field survey teams equipped with instrumented vehicles continued on an on-going basis with field surveys of classified roads in the State. The requirements of the proposed National Association of Australian State Road Authorities Co-ordinated S.R.A. Data Bank and the Department's own Data Bank are being taken into account in assessing the extent of the field surveys.

Information was supplied to the Commonwealth Bureau of Transport Economics as to conditions concerning classified roads at 30 June 1977 for the preparation by the Bureau of the Report on Roads in Australia 1978.

Work continued to develop a satisfactory alternative procedure for the distribution of moneys to Councils, under the States Grants (Roads) Act 1977, for the construction and maintenance of rural local roads.

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## urban road planning

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### county of cumberland

The County of Cumberland Planning Scheme included a proposal for a new road between General Holmes Drive, Kyeemagh, and Hume Highway, Chullora, generally along the southern side of the Cooks River. A review of this route, including a feasibility study of varying standard of road, began during the year. The investigation, which is being carried out jointly with the Planning and Environment Commission, is expected to be completed towards the end of 1978.

Plans for the general widening of Jersey Road, Hornsby have been abandoned with the concurrence of the planning authorities concerned. Future improvement of this route will be restricted to improvements at intersections.

The Department's plans for improvement of Mona Vale Road include provision for a major deviation between Terrey Hills and Ingleside. These plans have been reviewed and, subject to the concurrence of the planning authorities, it is now proposed to plan for the widening of the existing road over this length and abandon the deviation.

Plans for a short deviation of Heathcote Road, from its intersection with, to about 1 km west of the Princes Highway have been abandoned. Future improvement of Heathcote Road in this vicinity will be effected by widening along the existing alignment.

The Department has abandoned proposals for the general widening of the Ingleburn/Prestons sections of Campbelltown Road as a result of recommendations made by the Macarthur Development Board for urban development in the Ingleburn area.

At the request of the Planning and Environment Commission location studies were undertaken during the year for a new arterial road in the Glenhaven area.

A component of the Department's plans for expansion of the Main Roads system is the South Western Freeway. The Campbelltown/Prestons section of this freeway was

built some years ago. Consultants have recently been engaged to investigate and report on appropriate staging of construction in the Liverpool area.

In October 1977 the Government announced that the previously planned route of the North Western Freeway between Harris Street, Ultimo and Gladesville Bridge would be abandoned, and that existing arterial roads in the corridor would be progressively upgraded. A preliminary scheme for the development of a route along Bank Street and Victoria Road has been prepared and further investigations are in progress.

At the request of the Government, a review is in progress of the planned route of the Eastern Distributor between the eastern terminal of the Cahill Expressway and South Dowling Street. Also, in conjunction with this work the Department is investigating the feasibility of developing an east/west connection between the Eastern and Western Distributors at the southern end of the City. These projects are being undertaken by consultants and in consultation with the Planning and Environment Commission.

The Department provided representatives on various committees investigating transport proposals and allied projects. It has been represented by its Commissioner on the Urban Transport Advisory Committee of N.S.W. (URTAC) since the inception of that Committee in 1965. During the year representation was continued on the Technical Advisory Committee of the Urban Transport Study Group (UTSG). There was official representations on three Consultative Groups of the second Major Airport Needs of Sydney (MANS) Study and there are Departmental nominees on several committees set up by Local Government Authorities to undertake planning studies within their areas.

The Sydney Area Transportation Study developed the beginnings of a valuable data base for transport planning in the Sydney region. This material has been added to, up-dated and refined by the Urban Transport Study Group, and considerable use is now being made by the Department of the data and expertise available from the Urban Transport Study Group.

Enquiries seeking information as to the effect of Departmental proposals on properties totalled 92,000. Applications for development, on land reserved for future Main Road purposes, and referred by planning authorities to the Department for its views, totalled 198.

### newcastle and district

The Northumberland County Planning Scheme, gazetted in 1960, includes County Road reservations for the improvement of the Main Roads System in the Newcastle region.

A transport Study for the Newcastle area is being undertaken by the Urban Transport Study Group. The Department will review its plans for Main Road development in the area in the light of the findings of this study.

### wollongong and district

Reservations for the Department's proposals for future expansion of the Main Roads System in the Wollongong-Shellharbour area were included in the Illawarra Planning Scheme gazetted in 1968.

The Urban Transport Study Group is also undertaking a transportation study for the Illawarra region. Alterations to the Department's planning will depend on the findings of this study. Meanwhile, investigations into a route for the southern Freeway south of Yallah, more appropriate than that included in the Planning Scheme, are being continued.



# country road location

During the year road locations were approved for 27 rural projects with a total length of 84 km (including 29 bridge sites). Other projects being investigated, but not finalised, have a total length of 484 km.

Planning activities included the continuing review of the Main Roads system. Fifty-one proposals for proclamation, reclassification and re-routing of roads were investigated. The classification of roads in National Parks and their maintenance is being discussed with the National Parks and Wildlife Service.

Investigation of alternative routes for the Hume Highway between Aylmerton and Hoddles Cross Roads, to provide a by-pass of Mittagong and Berrima, included environmental and economic studies, a public exhibition and analysis of public response. Planning proposals were evaluated for the Bathurst-Orange Growth Centre, the Hunter Region, the Hastings Sub-Region, the Singleton District and 35 Local Government Areas. Transportation proposals of the Gosford-Wyong Structure Plan were reviewed to determine the possible effects of the extension of the F3 — Sydney to Newcastle Freeway.

The length of areas of surveys, photography and mapping was carried out over 437 km for control surveys, 1 870 km for route photography, 94 km for project photography and 12 290 hectares for photogrammetric mapping. The expenditure on aerial photography and mapping by contract amounted to \$310,300.

Enquiries from the public about the effect of country road proposals on land development control numbered 18 040. There were also 120 enquiries about development on proposed deviations, 85 enquiries regarding opening and closing roads, 32 enquiries about the disposal of Crown Lands, 42 mining lease applications and 21 enquiries concerning transmission lines and cables.

Proclamation of motorways achieves control of frontage access on widened or relocated highways. During the year approval was given to motorway boundaries and points of access totalling 21 km. Amendments to approved boundaries totalled nine.

# landscaping

To improve the aesthetic impact of a project, the Department has continued to apply the principles of landscaping together with environmental factors from the design and planning stage to the planting of the trees and shrubs.

Planting was undertaken at an early stage of construction (after the risk of damage by road plant had been overcome) on the Warringah Freeway, the North Western Distributor and the South Western Freeway. The plants are then well established when the roads are opened to traffic.

Selected exotic plants, nursery activities together with selected specimens of native flora and erosion control (such as hay-mulching and hydro-mulching) were included in Departmental exhibits.

During the period under review the Department planted approximately 14,000 trees and shrubs throughout the State, the most significant plantations being:

F1 Warringah Freeway	
Between Miller Street and Willoughby Road	700
Hume Highway — State Highway No. 2	
8 km north of Camden	500
Camden Deviation	600
2 km to 5 km east of Picton	400
57 km to 65 km south of Mittagong	700
82 km to 85 km south of Mittagong	1000
Gundagai Deviation	500
3.2 km to 9.6 km south of Holbrook	900
Federal Highway — State Highway No. 3	
14.6 km to 22 km south of Goulburn	1800
Great Western Highway — State Highway No. 5	
32 km to 39 km east of Bathurst	900
Mt. Ousley Road — Trunk Road No. 95	
4 km north of Wollongong	800



During the year the Department planted approximately 14,000 trees and shrubs throughout the State. On the Warringah Freeway over 700 plants were used for landscaping between Miller Street and Willoughby Road.



## traffic management

### traffic authority of new south wales

Traffic Authority delegations have continued to operate through the Department and Councils in the case of traffic facility devices on main roads and local roads respectively. The Council Traffic Committees have allowed these delegations to operate with the minimum of delay in the case of local roads and have provided a useful forum for discussions of other traffic matters.

The Department has continued to convene or to be represented on a number of standing and ad hoc Working Parties for the Authority. These Working Parties have dealt with matters ranging from road closures to light traffic thoroughfares, local traffic management schemes to regional traffic management schemes, commuter transport routes to public transport routes, individual development applications to town centre development proposals and have reported to the Authority recommending appropriate action.

### traffic signals

A total of 111 new sets of traffic signals were brought into service during the year using Departmental staff and contractors. In addition there were 39 sites under construction or let to contract at 30 June 1978.

At 30 June 1978 there were 1,477 sets of signals in service throughout the State, distributed as shown in the following table.

	<b>Vehicle Actuated</b>	<b>Pedestrian Actuated</b>	<b>Inner City</b>	<b>Total</b>
Sydney	963	210	113	1,286
Newcastle	64	20	—	84
Wollongong	43	7	—	50
Country Centres	44	13	—	57
<b>Total</b>	<b>1,114</b>	<b>250</b>	<b>113</b>	<b>1,477</b>

In addition 35 sets of traffic signals were reconstructed because of changing traffic factors or road reconstruction and six sets were removed from service.

The Department's construction staff installed 15 of the sets of signals commissioned during the year, the remainder being installed by contractors to the Department's designs and specifications. The Department's staff also carried out 27 of the reconstructions of existing signals.

Temporary signals were installed at five locations to assist in controlling traffic movements at works in progress.

This large number of traffic signals has resulted from the needs of traffic on arterial roads, catering for both through traffic and traffic wishing to join the arterial road. Where signals are close together either in a central business district or continuous along an arterial road, there is a need to co-ordinate their operation.

During the year new major computer based systems were installed in Master Control Cabins at St. Leonards, Newtown, Leichhardt and Rushcutters Bay. For the first time private telephone lines rented from Telecom Australia were used to connect the individual local controllers to the master. A total of 74 new sites were co-ordinated during 1977-78, while the standard of co-ordination at another 16 sites was improved.

In the inner and near city area of Sydney, there are 149 signal sites controlled by a computer based system. Other computer based systems are located at King Street, Newtown (20 sites); Pacific Highway, St. Leonards and Chatswood (23 sites); Parramatta Road, Strathfield and Lewisham (26 sites); Military Road, Mosman (11 sites); Canterbury Road, Punchbowl (11 sites); Hume Highway, Ashfield and Carramar (12 sites); and New Canterbury Road, Lewisham (6 sites). Other non-computer based systems and small master controlled systems are installed at 71 sites and flexilink (cableless) systems operate at 75 sites.

Regional master computers have now been installed at Newtown, Punchbowl, St. Leonards, Lewisham and Rushcutters Bay and contracts have been called for the construction or extension of computer cabins at Silverwater, Hornsby (previously Turramurra), Sylvania, Liverpool, Newcastle and Wollongong to house computers that have already been delivered.

### divided roads and channelised intersections

Median strips were constructed in permanent materials and were generally of three widths. Medians less than 1.5 m wide were constructed along 4.0 km of main road, bringing the total to 126.0 km. Medians 1.5 m but less than 3 m were added to 1.0 km of main road, giving a total of 126.0 km. Medians 3 m and greater in width were constructed along a length totalling 21.3 km, bringing the total of this size median to 364.0 km. There are now 616.0 km of main road which have been provided with a median.

The total number of channelised and reconstructed intersections completed during the year was 51. Major sites completed included:

Princes Highway and Darkes Forest Road, Darkes Forest  
Pacific Highway and North Sapphire Beach Road, Coffs Harbour

Mitchell Highway and Main Road No. 233 near Wellington

Princes Highway and Dalmeney Drive, 66 km south of Batemans Bay.

Pacific Highway and Kanangra Drive, Kanwal  
Woodville Road and Guildford Road, Guildford  
Boronia Road and Waterloo Road, Greenacre  
Woodville Road and Villawood Road, Villawood  
Great Western Highway and Old Western Road, Prospect

### pedestrian bridges and subways

The pedestrian bridge over Pacific Highway at Mt. Kuring-gai was completed during the year and a contract for the installation of a pedestrian subway under Pacific Highway at Pymble was let.

### other traffic safety and management schemes

A total of 16 lengths of climbing lane were constructed during the year bringing the number now constructed throughout the State to 236. There were 19 bus bays constructed during the year bringing the total on main roads to 175.

In addition, 62 miscellaneous traffic safety management projects were undertaken by the Department and Councils utilising funds made available by the Commonwealth Government. These projects included minor realignment and regrading of curves and crests and the erection of guardrail on bridge approaches.





The recently reconstructed intersection of King Georges Road and Canterbury Road at Wiley Park provides greater traffic safety by the separation and channelisation of traffic lanes with medians, traffic islands, storage lanes and wide merging lanes.

The installation of emergency telephones on the Western Freeway between Prospect and Emu Plains was completed and is proving of great assistance to stranded motorists. A fourth lane was constructed for southbound traffic on Babbage Road, from the Malga Avenue overbridge, to Clive Street, Roseville, and this work is being extended along Boundary Street to Archbold Road, Roseville.

## operations

In addition to the construction and reconstruction of traffic signals, Departmental staff were engaged in routine operation, maintenance and emergency repair work in the Sydney and Newcastle areas. In other areas such work was carried out by the local electricity supply authority on behalf of the Department.

## routes with full intersection control

Intersection controls on main traffic routes were established on 5 900 km of arterial routes by installation of "Give Way" and "Stop" signs. The main and secondary road system is now 90% complete in Sydney, 70% in Wollongong, 70% in Newcastle and about 25% complete for the whole state network.

It is expected that all arterial routes will have full intersection control installed by the end of 1978 and drivers travelling any road with a marked centre line or median may expect control by regulatory signs or signals at every intersection.

## clearways and transit lanes

Peak hour clearways were introduced on four arterial routes in the Sydney Metropolitan Area and extended on one arterial route.

Transit lanes were established on Spit Road / Manly Road /

Sydney Road, from Mosman to Balgowlah (P.M. northbound), Victoria Road, from Pittwater Road, Gladesville to the western side of Gladesville Bridge (A.M. citybound) and Longueville Road, from Epping Road to Pacific Highway, Lane Cove (A.M. citybound).

Tidal flow arrangements were introduced in Clive Street, Roseville, from Boundary Street to Babbage Road (P.M. northbound) and in Longueville Road, from Epping Road to Pacific Highway, Lane Cove (A.M. citybound).

## speed zoning

During the year new speed zones were established over the following lengths: 36 km (60 km/h), 37 km (80 km/h), 73 km (100 km/h) and 21 km (110 km/h). Extensions to existing speed zones were made over 102 km of roadway.

## signs and markings

Over 25,500 new facilities including marked foot-crossings, traffic domes, regulatory, warning and guide signs, together with 25,700 replacement signs were provided during the year. The installation and maintenance work on regulatory signs in the Sydney, Newcastle and Wollongong areas is carried out by the Department's own staff and in other areas the work is performed by Councils on behalf of the Department.

The Department maintained approximately 45 000 km of longitudinal traffic lines on classified roads and unclassified roads. Raised pavement markers continued to be used to augment painted lines and to simulate traffic lines on freeways. Approximately 95 000 square metres of transverse lines, zebra crossings and road symbols were marked and maintained during the year. Increased quantities of hot applied thermoplastic material, instead of conventional linemarking paint, were used throughout the year.



## survey and acquisition of land

New roads and alterations to existing routes usually involve the Department in acquisition of land. The cost of acquisitions represents a substantial proportion of the total cost of many new works. As well, the planning involved in the purchase of land must take into consideration the length of time before it will actually be used.

A total of 985 land settlements were completed during the year. The various categories of settlements over all areas involved 65 settlements for hardship, 637 by negotiation, 99 due to realignment and 184 resumptions. They were negotiated by 45 staff valuers. Three valuers were employed on the review of rentals for Departmental tenanted properties.

The year's expenditure of \$14.30 million (excluding Administrative Costs) was divided as follows:

State Sources —	
County of Cumberland	\$2.17 million
Country	\$1.61 million
Commonwealth Sources —	
Urban Arterial	\$9.51 million
National Roads	\$1.01 million

Plan preparation during the year involved 201 plans comprising 362 sheets, which were prepared for lodgement at the Registrar General's Department. Included in these plans were those required in connection with realignment proposals affecting 1.05 km of road in the County of Cumberland.

Departmental staff carried out 33 land surveys covering 5.8 km in the County of Cumberland and 76 land surveys covering 150 km in the Country.

The number of land development enquiries answered in the Survey and Property Section was 5,637.

## materials testing and research

Monitoring of pavement strength intensified during the year with the acquisition of a second Deflectograph. The work of the Deflectographs is of prime importance in maintenance of road pavements enabling a continuing assessment of their needs for strengthening or reconstruction to be made.

As part of the programme to survey the National and State Highways, deflection surveys were completed on sections of the Pacific Highway north and south of Newcastle and a survey of the New England Highway was commenced and completed north as far as Armidale. Various State Highways and Main Roads in the Metropolitan, Southern and Illawarra Divisions were also surveyed together with Export Roads in Newcastle and the Great Western Highway from Lapstone to Mt. Victoria.

Road trials were commenced with the newly acquired SCRIM (Sideways-force Coefficient Routine Investigation Machine) and a schedule has been prepared for the testing of all major highways radiating from Sydney. This will provide important data on the surface frictional performance of the pavements as an aid to improved pavement maintenance and improved traffic safety.

There was an increasing demand for investigation and design of remedial treatment for landslides and this work included the main slip on Mt. Ousley where the design

provided for horizontal drains and relief wells to stabilise the material.

Work continued on the extension and revision of methods for material characterisation and pavement design procedures.

## materials and research laboratory

The demand for the specialised services and testing facilities of the Materials and Research Laboratory continued throughout the year. These provide for material testing outside the scope of the Divisional Laboratories and for services such as pavement condition monitoring, geological surveys, seismic and resistivity surveys, and vibration monitoring. Calibration of laboratory equipment was also a continuing activity of the Laboratory.

Testing pavement gravels in triaxial apparatus increased due to the need for closer examination of borderline gravels because of the diminishing availability of natural materials. Development work was carried out on the performance criteria for the various classes.

Research was undertaken into the behaviour of rubber/bitumen mixes aimed at utilising scrap rubber and providing a surfacing suitable for use over crazed pavements.

Two new compactors were installed in the Laboratory for work associated with the development of procedures for laboratory compaction of bituminous mixes.

Vibration monitoring of blasting and construction plant played an increasingly important role in the activities of the laboratory. The demand for this service is growing, especially in urban situations.

Expansion of the laboratory into the areas previously occupied by the Metropolitan Division enabled rationalisation of activities and more efficient utilisation of available space. Material samples totalling 20,559 were tested by the Laboratory during the year involving 69,294 individual tests.

## divisional and field testing

Field investigation and gravel search received increased attention as known deposits of gravel diminish. This was reflected in the increased use of lime stabilised pavements and its attendant increased testing and sampling.

A total of approximately 41,200 samples of road and bridge materials were processed at Divisional and Field Laboratories during the year involving approximately 271,500 individual tests.

A significant increase occurred in the use of Benkelman Beams for testing of pavements to receive asphaltic concrete overlays and for construction control purposes.

A laboratory truck was fitted with Mobile California Bearing Ratio test equipment to enable in-situ testing of soft materials in the Metropolitan area and enabled cost and time benefits to be effected with this operation.

Eight sets of Geonor Equipment for weight and dynamic sounding in swampy areas have been allocated to Divisions for investigation of road alignments. Field trials have been carried out to assess the performance of special aggregates as surface dressings and on the stabilisation of sub-standard gravels with tar for use as base course material. Assistance in the training of Council staff was again given to a number of Councils and control testing for Council works undertaken.

The newly constructed laboratory at Bowenfels was completed and occupied and the laboratory at Moree was closed and the equipment transferred to Glen Innes.





The newly acquired SCRM (Sideways-force Coefficient Routine Investigation Machine) commenced road trials in preparation for testing surface friction on all major highways radiating from Sydney.

## weight of loads

Serious damage is caused to roads and bridges by overloaded vehicles. The Department employs Inspectors to check the loading of vehicles in order to reduce damage as much as possible.

During the year 52,968 vehicles were stopped and weighed and of these 10,671 or 20% were found to be overloaded. As in preceding years the incidence of overloading has increased and massive overloads of up to 29 tonnes were detected. Prosecutions for overloading offences increased during the year and 11,534 convictions were recorded.

Action taken during the year is summarised in the following statement.

	1977-78	1976-77
Vehicles stopped and weighed	52,968	61,857
Vehicles reported overloaded by Department of Main Roads	8,392	10,234
Vehicles reported overloaded by Department of Motor Transport	2,279	1,963
Drivers prosecuted for failing to obey a lawful direction	81	76
Prosecutions authorised	10,859	8,390
Number of cases listed for hearing at Court	12,099	11,175
Number of convictions recorded	11,534	10,032
Total penalties imposed	\$1,293,136	\$1,059,484
Average penalty imposed (including Court costs)	\$112.12	\$105.61
Number of maximum penalties imposed	81	60

## fixed weighbridges

The concrete pit for the weighbridge at Mt. Boyce has been constructed and the weighbridge platforms and

mechanism are soon to be installed. A tender for the construction of the weighbridge office has been let and the weighbridge will be in full operation by the end of the year. Other major weighbridges are proposed at Bell on Main Road No. 184 and near Colo River on Main Road No. 503.

## permits

Circumstances often require the issue of permits for indivisible loads which exceed Ordinance weight limits. During the year 4,597 individual trip permits were issued for the movement on special purpose vehicles of a total of 303 074 tonnes.

Permits which allow restricted travel to overweight vehicles within a radius of a particular location totalled 1,249 in 1977-78 compared to the 1,430 which were issued during the previous year.

## equipment

The Department has taken delivery of 74 portable electronic weighing devices as the first step in replacing the mechanical loadometers which have been used in the past. The new weighing devices make the weighing of triaxle trailers a relatively simple procedure.

## new legislation

On 28 April 1978 new weight limits for heavy vehicles were introduced in New South Wales. For the majority of vehicles increases in weight allowances have resulted in accordance, generally, with the allowances which were recommended in the NAASRA Economics of Road Vehicle Limits Report. For the remainder of the heavy vehicles it is not proposed to reduce present weight limits for a period of at least 18 months after 28 April 1978.

Legislation was also introduced on 28 April 1978 to enable the Department's Inspectors to order the driver of a vehicle which is overloaded by more than 10% to adjust or reduce the load on the vehicle to the correct Ordinance weight limits. Drivers of several overloaded vehicles, some of which have been overloaded by as much as 29 tonnes were ordered to off-load the excess weight before continuing their journeys.



## elimination of railway level crossings

During the year work was completed on the improvement of the level crossing at Unanderra on State Highway No. 1 (Princes Highway) to provide for four traffic lanes.

Widening of the level crossing on Main Road No. 547 (Jinderra to Walla Park Road) at Walla Walla was completed.

Improvements to the approaches to the level crossing on Trunk Road No. 66 (Broken Hill to Menindee Road) 4 km east of Broken Hill were completed.

Reconstruction work has been commenced to improve the alignment of the approaches to the level crossing on State Highway No. 2 (Hume Highway) at Coolac.

Work to install type 'F' flashing lights and warning bells has been commenced at the level crossing 5 km north of Tenterfield on State Highway No. 16.

Type 'F' flashing lights and warning bells were installed at nine level crossings some of which were previously protected by manned gates. These were on State Highway No. 12 (Gwydir Highway) at Glen Innes, State Highway No. 17 (Newell Highway) at Forbes, Main Road No. 126 (Wallabadah to Quirindi Road) at Quirindi, Main Road No. 215 (Ilford to Bylong Road) at Rylstone, Main Road No. 245 (Orange to Blayney Road) at Milthorpe, Main Road No. 292 (Old Bowenfels to Meadow Flat Road) at Rydal, Trunk Road No. 55 (Marrangaroo to Mullaley Road) at Ben Bullen and Trunk Road No. 65 (Ewingsdale to Lismore Road) at Byron Bay.

Flashing lights and warning bells were installed on an unclassified road at Billinudgel.

These works were carried out by the Department, Councils and the Public Transport Commission, working in close co-operation.

## plant and motor vehicles

New plant to the value of \$8.73 million and motor vehicles costing \$4.73 million were purchased during the year to replace existing items and to provide for some additional requirements.

Major plant purchases included the Department's first Asphalt Planer, acquired at a cost of \$327,000 including spares. In addition to the use of its own plant, the Department made extensive use of hired equipment.

Facilities were provided for the maintenance of plant and vehicles and for general mechanical and electrical engineering services.

## electrical

Power supply increases and upgrading were carried out at Central Workshop, Bellambi Works Office, Lane Cove Works Office, Bega Divisional Office and Port Macquarie Workshop.

Street lighting design was undertaken for Epping Road, Bondi Junction By-pass and the South Western Freeway. Studies facilitating maintenance of lighting in the Kings Cross Tunnel were completed.

A new electronics workshop was established for toll equipment maintenance and to facilitate design, production and maintenance of a wide range of other Departmental electronic equipment.

Investigation and negotiation with Telecom for introduction of co-ordinated telephone and radio equipment was undertaken. Further progress was made in establishing radio networks in country Divisions and rationalisation of the Metropolitan radio network.

Inspection and documentation of electrical services in Departmental establishments, including Central Asphalt Depot, Mobile Asphalt Plant, Divisional and Works Offices were continued.

## central workshop

A total of 10,628 jobs were completed by Central Workshop during the year for a total value of approximately \$8,500,000.

The Workshop's activities included property repairs, furniture manufacture, general building and carpentry work — 26%; manufacture of signs, sign structures and other traffic facilities — 14%; manufacture and repair of plant and overhaul of ferries — 18%; plumbing and electrical services to Metropolitan, Parramatta and Freeway Divisions and general transport services — 13%; structural steelwork and reinforcing steel for bridges — 13%; and special projects and other miscellaneous work — 16%.

### Building Work

Major alterations and additions were carried out at the Materials and Research Laboratory, Milsons Point, Bowenfels Works Office, Central Asphalt Depot and South Metropolitan Works Office, Rockdale.

Campbelltown Works Office was moved to Taber Park, Menangle. This involved provision of some new buildings, transfer of existing buildings and provision of water, sewerage and electrical power to the new site.

A sub-depot was established for a traffic facilities gang at Fox Street, Granville.

Buildings were constructed for the use of supervisory personnel at Douglas Park and Moolgun Creek bridge construction sites.

At Mortlake a new amenities building was provided for the vehicular ferry crew as well as a new waiting room for passengers.

Other building work included an exhibit for the Royal Easter Show, an Environment Exhibit, control room for Swansea Bridge, and an amenities building for workmen on the construction of the Bondi Junction By-pass.

Renovations and maintenance were carried out on Departmental properties in the Sydney Metropolitan area, including tenanted houses acquired for future road construction. Inspections were carried out on country staff residences in ten Divisions in accordance with a continuous programme.

### Manufacture of Signs and Other Traffic Facilities

During the year, the Central Workshop Sign Shop manufactured 15,845 direction, information and warning road signs and 19,104 parking signs.

Medium sized modular sign structures of the single post type continued to be manufactured for stock and special large sign support structures were designed and manufactured for the erection of large freeway signs.

**An articulated grader shaping the batter on a shallow cut on the Stirling Vale Creek Deviation of the Barrier Highway, 6 km to 12 km west of Broken Hill.**







The operational functions of the former Department of Motor Transport sign workshop at Rosebery were transferred to Central Workshop in February 1978.

Movable medians have been designed for the northern and southern ends of Ryde Bridge and manufacture will soon commence. A movable median of bifurcated type has been designed for the Sydney Harbour Bridge and manufacture is well advanced.

### Plant

Manufacture was completed of a prototype centre articulated linemarker with hydrostatic transmission.

An automatic trailer coupling with vertical load capacity was designed to meet a proposed new Australian Standard for Trailer Couplings for heavy vehicles. A prototype has been manufactured for testing and evaluation.

Plant and motor vehicle repairs were carried out for the Bondi Junction By-pass and Warringah Freeway Construction Offices, together with a number of large plant repair jobs for other Works Offices.

The Workshop Service Exchange System continued to handle a wide range of exchange components for the Department's plant fleet. The total number of jobs completed in this section during the year was 1,560.

Three large vehicular ferries were overhauled at the Mortlake Slipway. Major mechanical repairs were also carried out on two Hawkesbury River ferries, following flood damage in March this year. Central Workshop personnel assisted and supervised the overhaul of a further four ferries throughout the State.

### Structural Steelwork

Steel girders and handrails for bridges totalling approximately 223 tonnes were fabricated for a number of bridges. A total length of 803 m of handrail was produced.

The painting gantries on Tom Ugly's Bridge and Fig Tree Bridge were provided with motorised travelling mechanisms. Work is well advanced on the manufacture of a motorised painting gantry for Iron Cove Bridge.

Work has commenced on the fabrication of twelve trough type box girders approximately 28.2 m long for the bridge which will carry the Windsor Road over County Road No. 5037 at Northmead.

A total of 1 050 tonnes of steel reinforcement was cut and bent to shape for use in concrete bridges and culverts throughout the State.

### Miscellaneous Work

The Department's range of explosive magazines was redesigned to include tamperproof door assemblies.

Seventy-five bitumen sprayer tests were conducted on machines owned by Contractors, Councils and the Department for the purpose of issuing or renewing sprayer certificates.

Four auction sales were conducted to dispose of worn plant, trucks and miscellaneous items and realised a total of \$1,165,420.

### Field Workshops

The Department's field workshops throughout the State now number forty. These workshops carry out repairs to the Department's plant and motor vehicles.

Plant Inspectors carry out regular inspections of plant, vehicles and the field repair facilities. They also fill a role of training and assisting in newer and more difficult aspects of plant maintenance and repair.

## employment

At 30 June 1978 a total of 11,512 wages employees (including contractors' employees and truck owner-drivers) were engaged on the maintenance and construction of Main Roads by the Department of Main Roads and by Councils. This compared with a total of 11,594 as at 30 June 1977.

In addition, there were 3,959 salaried officers employed by the Department at the end of June 1978.

An analysis of the figures is set out below.

### Departmental Staff and Employees —

#### Salaried Officers —

Male	3,234	
Female	725	3,959

#### Wages Employees —

Male	6,172	
Female	73	6,245
		10,204

### Departmental Contracts —

Contractors' employees engaged on contracts under direct supervision by the Department (other than haulage and minor contracts)	312	
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#### Haulage Contracts —

Trucks	871	
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#### Minor Contracts —

Plant, etc.	554	1,737
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#### Council Employees engaged on subsidised roadworks

2,563

#### Council-owned and Contract Trucks engaged on subsidised roadworks

967 5,267

### GRAND TOTAL

15,471

## industrial relations

Relations with union officials, employees and staff continue to be generally harmonious. The Department has not been involved in any major industrial disputes, although there has been some industrial action, local in nature, but dealt with and settled by the Conciliation Commissioners.

## work experience programmes

During 1977-78 the Department was again involved in the implementation of the Work Experience Programmes for Secondary School students which have been conducted by various schools throughout the State.

Approximately 55 students, mainly in the country were provided with training for periods of up to one week and were given instruction in the duties performed by engineers, surveyors, draftsmen, tracers, foremen, testing operators, plant mechanics and carpenters. A limited extension was arranged in some Divisions to include work experience in the duties performed by clerical officers and typists.



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## staff training

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Training and development activities continued at a high level during the year. The Department's Annual Training Programme, developed under the guidance of the Steering Committee on Training, provided 61 formal courses which were attended by 835 officers. Residential, full-time and part-time courses were conducted to meet particular requirements.

To supplement the Department's internal training programme extensive use was made of courses offered by educational and other institutions.

During the year fifteen senior officers attended courses at the Australian Administrative Staff College and at the Institute of Administration, University of New South Wales.

Sponsorship to full-time degree courses was provided to 52 staff undertaking studies in Civil Engineering, Electrical Engineering, Science, Surveying and Business Administration. Four officers are being sponsored in full-time studies to post-graduate courses at the Universities of Sydney and New South Wales.

Assistance was provided to 353 officers to undertake part-time studies in certificate, diploma, degree and post-graduate courses at various educational institutions.

## apprentices

Sixty-nine apprentices were indentured during the year bringing the total number employed to 207 in twelve different trades. During the year the Department's apprentices won awards in boilermaking, plumbing and gasfitting, painting, plant mechanics, sheetmetal working, and bridge and wharf carpentry.

## induction training

Induction training courses were held throughout the year for newly recruited staff. A special induction course for junior professional staff was held on 7 December 1977 and was attended by 23 graduand engineers and surveyors.

## technical training

A variety of courses was conducted during the year in procedures for the design, construction and maintenance of roads. Staff attending these courses included engineers, scientific officers, engineering assistants, road design draftsmen and foremen. A feature of this programme was a week-long residential course in road construction methods for engineers. Divisional training conferences and plant operator instruction also continued throughout the year.

## training in departmental administration and procedures

This aspect of the training programme included courses for engineers, legal officers, road design draftsmen, survey draftsmen, assistant valuers and clerical officers. Nineteen engineers attended a residential course in detailed works office procedures and job management. Supervised study facilities were also provided for officers undertaking studies in preparation for clerical grade examinations.

## personal skills training

Courses in methods of instruction and correspondence preparation were held for appropriate staff. Job Instruction Workshops were developed to meet the requirement for supervisory officers to be able to develop, carry out and evaluate field training programmes. Use was made of courses conducted by the Public Service Board, and first aid classes were continued throughout the year.

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## office premises and housing for staff

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### head office

Various alterations were carried out in Head Office to accommodate new plant, to improve security and to rearrange partitioning for changing requirements.

Work was completed on the northern facade and a new entrance vestibule provided for the office premises in Day Street.

The new Emergency Centre in Oxford Street has been fitted out with partitioning, false flooring and service extensions. Designs for equipment, furniture and fittings are being prepared to complete the Control Room.

### divisional offices

At Deniliquin a Departmental house was fitted out to serve as a temporary drawing office pending the possible provision of a new Divisional Office building.

Purchase of a commercial building for additional office accommodation adjacent to the Parramatta Divisional Office was completed and Departmental surveyors are occupying a leased cottage in Phillip Street, Parramatta.

A new testing laboratory was completed at Bowenfels together with amenities and garages for surveying staff.

Internal alterations were carried out at Parkes Divisional Office to alleviate overcrowded conditions.

Air conditioning systems were installed at Port Macquarie and Bega Divisional Offices.

The Divisional Office at Goulburn was extended to provide accommodation for the surveyors and an off-street staff car parking area is being provided as well as a new garage.

### works offices

A new air conditioned office/test room building was completed at Waratah to accommodate traffic facilities staff. An existing amenities building is currently being extended.

Extensions to the Works Office at Bega were completed.

A new workshop has been completed at the Central Asphalt Depot.

A large existing complex adjoining Departmental land at Rockdale was purchased and adapted for use as the new South Metropolitan Works Office.

Air conditioning was installed at the Burwood Signals Administrative Building.



## sub-depots

New buildings were erected at Moruya, Eden, Mittagong, Kiama, Bendemeer, Wilsons Valley and Helensburgh.

## computer control cabins

Tenders were let for the construction of new Control Cabins at Silverwater, Warwick Farm, Hornsby, Taren Point and Newcastle while an existing Cabin was extended at Wollongong. These will house computers to co-ordinate traffic signals in these areas.

## housing for staff

A new house was constructed for the Divisional Engineer at Broken Hill. During the year existing residential properties were purchased for staff housing at Wagga Wagga, Kanwal (Wyong), Newcastle, Glen Innes, Goulburn, Grafton, Moree and Tamworth.

A total of \$494,200 was expended on staff housing during 1977-78. Four of the properties were acquired as replacements for older premises considered unsuitable while thirteen staff residences were disposed of, being surplus to the Department's requirements.

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## visitors from overseas

Dr. H.M. Horner, Deputy Premier and Minister for Transportation, of Alberta, Canada, visited Sydney on 20 January 1978 accompanied by Mr. C. Roth, Deputy Minister for Transportation and Mr. J. Lipke, Executive Assistant to Dr. Horner. The visitors inspected Sydney's road system from the air.

Mr. J.J. Smit, Chief Engineer (Construction), Division of National Highways, Department of Transport, Republic of South Africa, spent one day with the Department in the Sydney area inspecting construction work and discussing various aspects of direct control and contract works.

Mr. Khun Banchongsak Parntong, Chief of the Engineering and Technical Division, Accelerated Rural Development Department of the Government of Thailand, spent two days with the Department observing planning methods.

Mr. Shafullah, Additional Chief Engineer, Department of Roads and Highways, Bangladesh and Project Director of the Khulna-Mongla Project, spent two days in the Department studying computer road design techniques.

Mr. Weera Pootrakul, Mechanical Engineer and Workshop Superintendent, Department of Highways, TARCAT Project, Thailand (a Colombo Plan special visitor), spent two weeks observing the Department's Plant Maintenance Organisation and methods of workshop administration. He also attended an in-service training course for Plant Foremen.

Mr. Lantari Suafo'a, Officer in Charge of all maintenance on Roadworks in UPOLU, Western Samoa (a special visitor under the South Pacific Assistance Programme), spent one week observing methods used in small bridge and culvert construction and in road maintenance and construction.

Mr. Raden Danukusuma, a Colombo Plan Fellow from Indonesia, spent two weeks researching aspects of

bridge and road design, road construction and maintenance, photogrammetry, traffic management and materials testing.

Mr. Joseph Naka, Technical Officer Higher Grade (Survey and Design), Public Works Department, Fiji (under the South Pacific Assistance Programme), spent two weeks researching the design and manufacture of all types of road signs.

Messrs. Mazhar, Ul-Haz Sheikh and Mohammad Saeed, Assistant Managers, Indus Super Highway (Colombo Plan special visitors from Pakistan), spent two weeks researching various aspects of pavement construction with special emphasis on site supervision of contract works, and surfacing and sealing operations.

Mr. Yhai Prombrasith, Chief Engineer, Southern A.R.D. Work Center (a Colombo Plan Fellow from Thailand), spent two weeks researching the planning and design of roads and bridges.

Mr. Pradit Wirailaksa, Project Engineer, Thai-Australian Rural Development Project, Ratchaburi, Thailand (a Colombo Plan Fellow), spent two weeks researching the planning and design of roads and bridges.

Mr. Abesanya Peiris, Divisional Construction Engineer (Bridges), Southern Division, Sri Lanka (a Colombo Plan Fellow), spent two months studying all aspects of bridge construction.

Mr. Habib Rasul Habib, Highway Engineer, Ministry of Public Works, Afghanistan (a Colombo Plan Fellow), spent two months observing Laboratory methods, road design and maintenance, and bridge construction.

In addition to the above the Department received various visitors for one or two days.

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## missions abroad

The Commissioner for Main Roads, Mr. B.J. Sexton, accompanied the Hon. P.F. Cox, M.P., Minister for Transport and Highways, to the 52nd Meeting of the Australian Transport Advisory Council (ATAC) held in Wellington, New Zealand on 10 February 1978. Following the meeting, Mr. Sexton spent a further seven days in New Zealand inspecting the road system on the North Island and holding discussions with officers of the Ministry of Works. In the course of his visit, Mr. Sexton also attended a meeting of the National Roads Board in Wellington.

The Eighth World Meeting of the International Road Federation was held in Tokyo from 16 to 21 October 1977. The International Road Federation is an organisation dedicated to better roads on a worldwide basis and the October meeting brought together leading authorities on road construction from various parts of the world. The Traffic Engineer, Mr. K.W. Dobinson represented the Department at the meeting and submitted a paper entitled "That Insatiable Demand for City Transport". After the meeting Mr. Dobinson spent two weeks inspecting road, bridge and tunnel works in Japan and Hong Kong.

The Fourth International Conference on Structural Design of Asphalt Pavements was held at the University of Michigan, Ann Arbor, Michigan from 22 to 26 August 1977. The Department was represented by the Materials and Research Engineer, Mr. Alan Leask and Mr. P.G. Rufford, Engineer in the Materials and Research Section.

At the Conference Mr. Rufford presented his paper entitled "A Pavement Analysis and Structural Design Procedure based on Deflection". Before returning to



Australia, Mr. Leask and Mr. Rufford visited a number of centres throughout the United States in order to examine recent developments in the fields of pavement design, materials characterisation and the development of "Road Management Systems". They were away from Australia for just over three weeks.

Mr. J.R. Jordan, a Civil Engineer seconded to the National Association of Australian State Road Authorities (NAASRA) undertook a study tour of the United Kingdom and United States of America between 2 September and 9 October 1977. Mr. Jordan is the Study Team Leader for the Study on Road Maintenance Standards, Costing and Management which was implemented by NAASRA. The cost of the NAASRA Study is shared by all Australian State Road Authorities.

Mr. L.N. Lainson, Engineer attached to the Materials and Research Section attended a training course in the use of the Sideways-force Coefficient Routine Investigation Machine (SCRIM) at Basle, Switzerland from 28 November to 3 December 1977. Following his attendance at the course, Mr. Lainson spent some time with various authorities in France, Great Britain and the Republic of Ireland which have had extensive experience with the use of SCRIM and the Lacroix Deflectograph. These machines are used to determine skid resistance and to monitor the structural conditions of road pavements respectively.

The Department's Traffic Systems Manager, Mr. A.G. Sims, spent three weeks in Kuala Lumpur during June 1977 to assist in the evaluation of tenders for the installation of traffic control equipment in the city. The system subsequently chosen by the Kuala Lumpur authorities is the one used in Sydney, which was developed by the Department in conjunction with Philips-TMC Pty Ltd. Mr. Sims also spent nine days in Singapore between 25 January and 3 February 1978 to provide assistance to Philips-TMC in its presentation of a technical proposal to the Public Works Board to install a similar system in Singapore. The cost of the latter visit by Mr. Sims was met by Philips-TMC.

## technical computing

The Technical Computing Installation provides data preparation, computing and plotting services which are predominantly used by the Head Office sections of the Engineer-in-Chief's Branch. The computing service includes computer time sharing terminals as well as traditional batch processing.

During the year three additional terminals were installed in the Traffic, Country Councils and Microfilm Sections. The first two of these terminals together with other terminals in Highways and Bridge Administration have made possible uniform presentation of works programmes for roadworks, bridgeworks, council works and traffic facilities.

Four additional terminals were on order at the end of the year for Metropolitan and Parramatta Divisional Offices and Bridge Design and Technical Computing Sections.

A computerised register of Technical Computing programmes and programme abstracts has been established for prospective users and programme administration.

Major programming efforts have been devoted to storage and processing of work programmes, pavement strength, roughness and smoothness records and processing of photogrammetric data collected by the new PDP 11/34 computer in the Rural Investigations Section.

## public relations

The Public Relations Section is responsible for informing the public of the activities and policies of the Department and it does this in many different ways. The Section's wide range of activities include:

- the preparation and issue of regular statements to press, radio and television about new undertakings;
- the planning, printing and distribution of brochures and maps, including the Department's quarterly journal "Main Roads" and the Annual Report;
- the screening and loan of movie films for schools, colleges, and other interested groups;
- the maintenance of a photographic record of major Departmental projects and the supply of prints for sale;
- the design and presentation of displays at both city and country centres to keep the community aware of new works which are planned or in progress;
- the reporting to newspapers and other media of road blockages due to flooding, snowfalls, landslides, accidents or roadworks;
- the provision of guest speakers to address meetings of community service organisations, church groups, historical societies and other associations;
- and the provision of "guides" for visitors to the Model Room Display Area on the Third Floor, Head Office.

It also undertakes to find the answers to a multitude of questions posed by the public — by letter, by telephone and by personal enquiry — concerning roads and bridges throughout the State.

In all of these activities, 1977-78 was again a busy year. During this period a total of 63 press releases were issued and films from the Department's collection were lent to 210 borrowers.

The Department's display at the 1978 Royal Easter Show focussed attention on the urgent need for a vital road network as part of the total system of communications in New South Wales. It also featured the benefits of better roads to the whole community and noted how the Department's proposals are frustrated by the current lack of adequate finance.

Exhibitions were also arranged at Broken Hill and Wagga Wagga in September 1977, Wollongong in October 1977, Newcastle in February 1978, Coonabarabran in February 1978 and the Environment '78 Exhibition in Sydney in June 1978.

On 16 September 1977 a special function was arranged for the official opening to traffic of a new bridge over Narrabri Creek at Narrabri by the Hon. R. J. Mulock, Minister of Justice and Minister for Housing.

The Department published new editions of "Road Maps of New South Wales" and maps of "Newcastle and Suburbs" and "Newcastle and Surrounding Districts". It also published a new edition of its brochure on "Apprenticeships" and a leaflet outlining the "Alternative Routes of the F5 — South Western Freeway" which are under investigation in the Mittagong-Moss Vale-Berrima area. In conjunction with the Department of Motor Transport, the Department produced and distributed a "Guide to New Road Vehicle Limits" in April 1978.





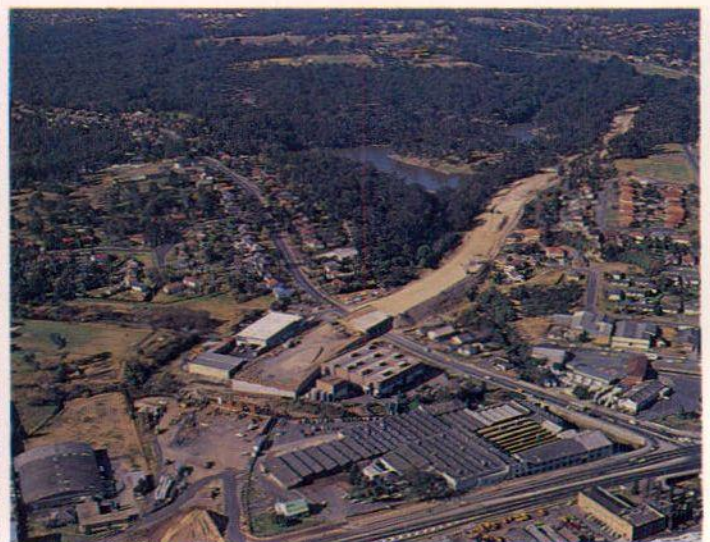
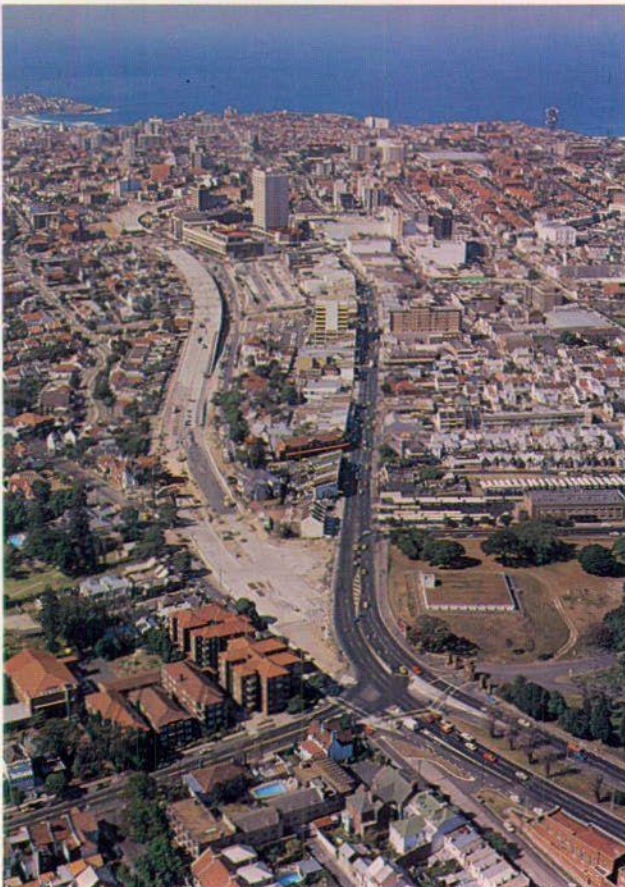
**Top: Pedestrian bridge over the Pacific Highway at Mt. Kuring-gai.**

**Left: Construction of the Bondi Junction By-Pass.**

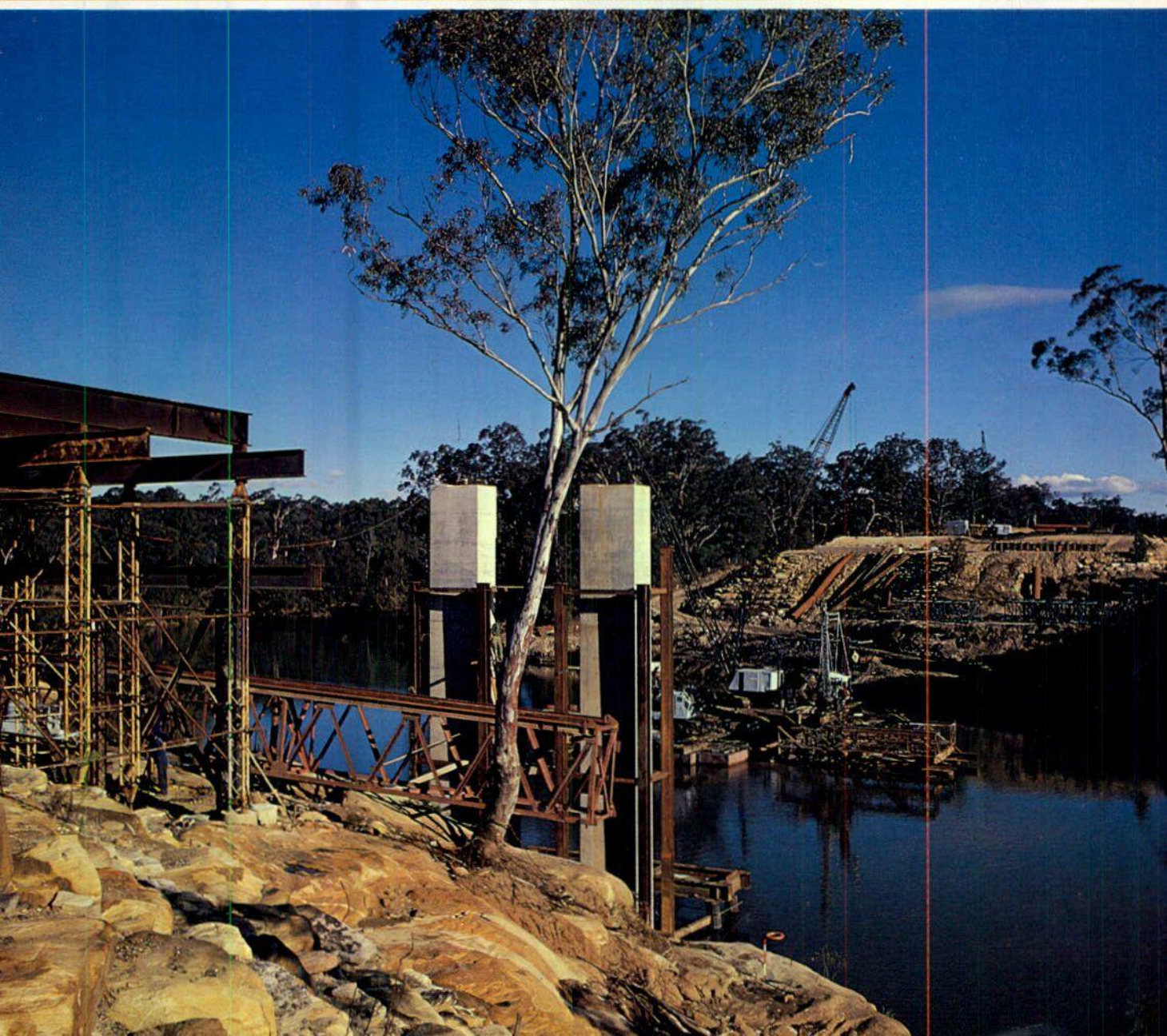
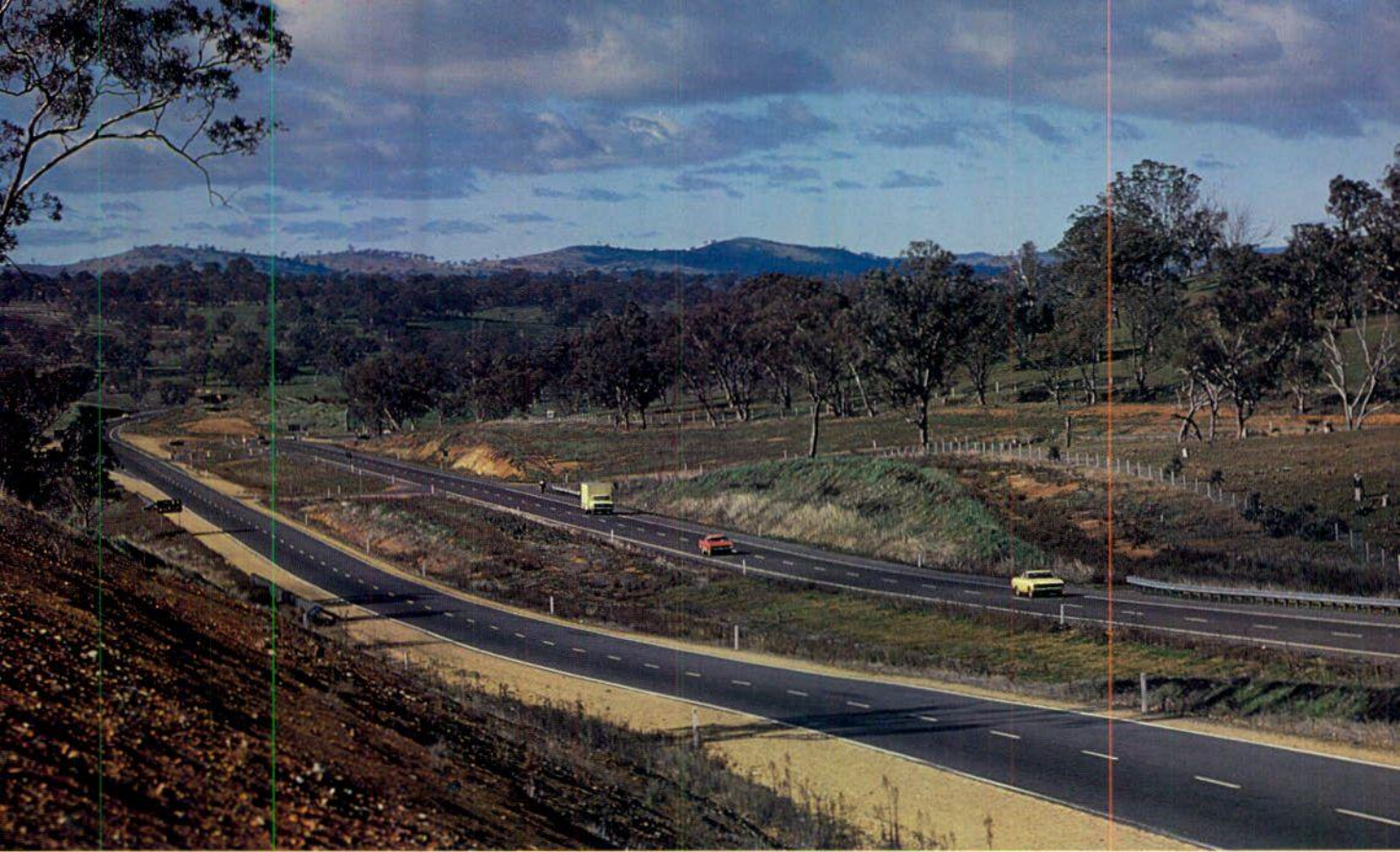
**Top right: Completed dual carriageways on the Hume Highway 7 km west of Yass.**

**Lower right: Construction of the bridge to carry the South Western Freeway over the Nepean River at Menangle.**

**Below: Parramatta By-Pass near North Rocks Road overbridge.**









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## graphic services

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Graphic Services refers to the production of printed matter, including plans and drawings by photographic, offset and chemical printing processes together with duplicating and electrostatic copying.

Also associated with Graphic Services is the Microfilming section which is responsible for the microfilming of plans and other records for long term reference.

Extensions to the Print Room in progress last year have been completed and an additional small offset printing press has been installed.

The major items of output during the year were: printing — 8,278,400 sheets; duplicating — 3,707,500 sheets; plan printing — 73,000 sheets; photography (negatives and prints) (a) 35 mm — 34,000 frames, (b) other than 35 mm — 25,000 frames, (c) 35 mm Microfilm aperture cards — 26,500.

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## legislation

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Amendments to the Main Roads Act, 1924, were made by the Main Roads (Vehicles) Amendment Act, 1978, which was assented to on 3 April 1978, and proclaimed to come into effect on 28 April 1978.

The amendments were made to implement certain recommendations made in the report of the Study Team established by the National Association of Australian State Road Authorities to investigate the Economics of Road Vehicle Limits in Australia.

A new section 51A was inserted into the Main Roads Act, 1924, to confer on certain authorised persons powers to require that the loads on heavily overloaded vehicles using main roads be reduced or adjusted to conform to the load limits prescribed by Ordinance No. 30C of the Local Government Act, 1919, before proceeding on their journey. For this purpose authorised officers may give to the driver of an overloaded vehicle using a main road one or more directions specified in the Act, namely: to reduce or adjust the load; to drive the vehicle to a designated place; to refrain from driving the vehicle on any road except for the purpose of reaching the designated place until the load is reduced or adjusted; to not dump any part of the load except at an approved place.

The Act imposes a maximum penalty of \$1,000.00 for a first offence or \$2,000.00 for a subsequent offence of failing to obey any of the above directions and authorises a member of the police force or a special constable to impound the vehicle until the load is reduced or adjusted.

In addition, it authorises a member of the police force or special constable to do all things necessary to ascertain the weight of a vehicle if the driver fails to comply with a requirement or direction under Ordinance No. 30C and to impound the vehicle (if it exceeds the maximum permitted weight by more than 10%) until the load is reduced or adjusted.

Ordinance No. 30C was also amended by proclamation in the Government Gazette dated 28 April 1978.

The amendment permits higher axle loads, axle group loads and gross loads for certain vehicles defined as "conforming vehicles". These vehicles are ones which

comply generally with the specifications recommended in the Study Team's report referred to above.

The amendment also provides for an increase in the maximum penalty for an offence against the Ordinance to \$1,000.00 in the case of a first offence or \$2,000.00 in the case of a subsequent offence. This provision follows from the amendment to section 51 of the Main Roads Act increasing the maximum penalties that may be prescribed by an ordinance made pursuant to that section.

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## library service

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The technical library service consists of the Head Office Library and seventeen Branch Libraries in Divisional Offices located throughout the State and at the Materials and Research Laboratory at Milsons Point. During the year 3,550 books, pamphlets and standards were added to the library bringing the total number of holdings to 55,356. The periodicals to which the Department subscribes have been increased to 524 with the addition of eleven new titles during the year.

The Library circulated 13,558 new periodicals to the staff, lent 6,049 items from stock and issued four Library Bulletins during 1977-78.

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## army supplementary reserve unit

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During 1977-78 the Department continued its sponsorship of two squadrons of the 21 Construction Regiment RAE (SR) as part of its joint undertaking with the Metropolitan Water Sewerage and Drainage Board and the Public Works Department to sponsor the Regiment.

The positions of Commanding Officer of the Regiment and the Officers Commanding 101 Construction Squadron and 108 Plant Squadron (Heavy) are at present held by Departmental engineers, together with other Departmental administrative and professional employees in key supporting roles.

The Annual Camp of the Regiment was held at the Army Land Warfare Centre, Canungra, Queensland over a four week period from 3 to 30 June 1978. Selected personnel received expert instruction in minor infantry tactics training from the Regular Army Battle Wing and in addition the combined civil skills of the personnel were employed on some 33 horizontal and vertical engineering tasks in the Canungra training area, including 6 km of road reconstruction, construction of a helipad and the initial survey and design of a Medium Range Transport Airfield.

The Commissioner inspected the activities of the Regiment with other senior officers of the Metropolitan Water Sewerage and Drainage Board and Public Works Department. They also observed the benefits gained in man management and leadership qualities for their employees which significantly contributes to the overall morale within these Authorities.



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## australian road research board

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The Australian Road Research Board was founded in 1960 by the National Association of Australian State Road Authorities (NAASRA), who jointly with the Commonwealth Departments of Construction and Transport, continue to sponsor ARRB development as the national road research centre in Australia.

Regularly guiding and reviewing ARRB policy is a Board of Directors comprised of the executive heads of the sponsoring road authorities. The Board Directors also meet together as NAASRA. Whilst ARRB has no formal direct links with NAASRA, there are strong informal ones through common direction and an interlocking common link at the technical level.

The Board operates as a non-profit public company (registered in Victoria) with its charter defined by its memorandum and articles of association as required by the relevant Companies Act.

The Board's research centre is located at Vermont South, Victoria.

Chairman for the previous year was Mr. G. E. C. McKercher, Director of Main Roads, Tasmania.

The Board is supported by a Steering Committee and seven specialist technical committees representative of current professional, commercial and educational thought within the community.

Complementing the research programme, the ARRB information services serve to advance road engineering and science by publishing and distributing papers and articles.

ARRB also conducts regional symposia and national conferences to encourage the exchange of information between road researchers and practising professionals in road-related areas.

Seminars conducted during the year concerned Fixed Roadside Hazards, Glare (jointly organised with the Illuminated Engineers' Society of Victoria), Axle Mass Determination, examining problems associated with control and policing of vehicle loading and utilisation of an electronic measuring unit as part of the system. Workshops on Quality Control and Soil Stabilisation (arranged by NAASRA) were held at the Australian Road Research Centre, the proceedings of which are expected to be published.

Local Government involvement continued with the 15th Regional Symposium at Mildura, Victoria. A Regional Workshop on Aggregates and Road Base Production with Mobile Equipment at Casino was opened by Mr. B. J. Sexton in his dual role as Commissioner for Main Roads and Director of ARRB. Organisation and conduct of this Workshop was in association with the Far North Coast Group of the Local Government Engineers' Association, New South Wales.

Detailed planning continued for the 9th ARRB Conference scheduled for 20-25 August 1978, in Brisbane. Such conferences create an invaluable medium for personal exchange during the conference and a long-lasting source of Australian and Overseas road reference material in the published Proceedings. Many overseas experts have been attracted to Australia by the Board's Conferences, invited speakers for the forthcoming conference coming from the United States of America, United Kingdom and France.

As a participant member of the OECD programme of co-operation in the field of road research, Australia through ARRB has access to reasoned and reliable data for policy makers, and researchers, ready access to international trends and documentation in such broad fields of research and enquiry as energy problems in urban and sub-urban transport; use of waste materials and by-products in road construction; and management of urban freight distribution.

An OECD symposium on "Heavy Freight Vehicles and their Effects" held in Paris was attended by the Executive Director, Dr. M. Lay. In his role as the alternate Australian delegate Dr. Lay also attended on the 19th Steering Committee for the OECD Road Research programme held during the same period in November 1977.

Improvements to research documentation and retrieval has continued. The Australian Road Index (ARI) developed as a computer based index to Australian Roads and Road Transport literature, has now been mounted on AUSINET thus allowing machine searching of the local data base. Updated quarterly and cumulated annually, the Australian Road Index offers instant bibliographic reference to provide librarians and researchers with a current awareness aid genuinely Australian in content. AUSINET is the Australian computer-based information network initiated by the National Library of Australia.

Development is under way to allow the international input to International Road Research Documentation (IRRD) to be automatically peeled off the ARI tapes.

Broad ranging articles on road research and development continue to be produced quarterly in the ARRB Journal.

ARRB's technical services group served as Consultants and developers of mechanical and electronic aids to modernise road engineering techniques and processes.

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## national association of australian state road authorities

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The National Association of Australian State Road Authorities, established in 1934, is an organisation of the central road Authorities in the six States together with the Commonwealth Department of Construction which is the road constructing authority for the Northern Territory and the Australian Capital Territory. The Association serves as a centre for pooling technical and administrative experience.

Two meetings of the Association were held during the year and were attended by the administrative heads of the Member Authorities. The annual meeting of the Association was held in the office of the Main Roads Department, Perth, and the other meeting was hosted by the Country Roads Board, Melbourne. The Bureau of Transport Economics (formerly the Commonwealth Bureau of Roads) and the Commonwealth Department of Transport were represented at those sessions which were of particular interest to the Commonwealth Government.

The Principal Technical Committee (comprising the Chief Engineers nominated by the Member Authorities) and the Secretarial and Accounts Committee each met during the year and were assisted by meetings of a number of Technical Committees dealing with specialist activities. Representatives from the Commonwealth Department of



Transport, the Bureau of Transport Economics and the Australian Road Research Board also attended a number of these meetings.

During the year the Association was involved in two Seminars — one on the 1976 NAASRA Bridge Design Specification and the other on Stabilisation. Both Seminars were hosted by the Australian Road Research Board.

Two reports by the NAASRA ad hoc Environmental Committee were published during the year in one booklet titled "Guidelines on Environmental Studies" and "Guidelines for Environmental Study Groups". Other publications issued during the year included "A Review of Transportation Planning in Australia" and a revised edition of "A Guide to the Preparation of Technical Reports". Two more brochures on the theme "The Role of Roads in the Movement of People and Goods" were also issued under the titles "Roads and Pedestrian Safety" and "Roads and Neighbourhood Planning".

During the year the second part of the Manual of Uniform Traffic Control Devices was completed, and is about to be published by SAA as an Australian Standard (Part 1 was published in 1974). The Manual was prepared by an Australia-wide committee of traffic experts including NAASRA representatives. The drawings for both parts were prepared for NAASRA by the Department of Main Roads, New South Wales, with final editing by the NAASRA Secretariat.

Following acceptance by the Australian Transport Advisory Council of the recommendations of the NAASRA Study on the Economics of Road Vehicle Limits, several States (including New South Wales) have introduced legislation governing the weight and size of heavy vehicles, based on the recommendations of the NAASRA Study. Studies are continuing into the operation of large combination vehicles (road trains) and the operation on roads of special vehicles, such as cranes.

A study on the establishment of NAASRA Data Bank Systems has been completed and the systems developed are now being tested, while a NAASRA Study on Road Maintenance Standards, Costing and Management is continuing.

## acknowledgements

In concluding this report of the activities of the Department of Main Roads for the financial year ended 30 June 1978, I extend appreciation to the Hon. P.F. Cox, M.P., Minister for Transport and Highways, for his consideration and support.

I wish to recognise the co-operation of Municipal and Shire Councils throughout the State. I desire also to record appreciation for the co-operation and assistance of Government Departments, State Instrumentalities, the Executive Committees of the Local Government and Shires Associations and the Road Authorities of other States.

For their assistance in reporting the work being carried out by Councils and by the Department in improving the Main Roads of the State, I again thank the press, broad-

## review of new south wales government administration

In January 1977 Professor P.S. Wilenski was commissioned by the New South Wales State Government to "inquire into and report upon improvements in the machinery of Government and State Government Administration and to advise on the implementation of such improvements as the Government decides upon". During 1977 the Department assisted the Review in its work by making a number of submissions on administrative matters.

The Interim Report of the Review entitled "Directions for Change" was issued in November, 1977 and it made general reference to the role of statutory authorities, and to their advantages and problems. The Review determined, subsequently, to assess in more detail the effectiveness and efficiency of statutory authorities. Three authorities, including the Department, were selected for further consideration by management consultants.

The firm given the brief for the Department was W.D. Scott & Co. Pty Ltd and, after an initial investigation, the following three projects were proposed.

1. Organisation Development
  - Top Management Structure
  - Focussing of Geographic Responsibility (Engineer-in-Chief's Branch)
  - Establishment of a Policy and Economics Unit
2. Development of Corporate Planning
3. Development of Cost/Benefit Analysis, and further Development of Programming and Budgeting Systems.

The Management and Strategy Review entailed the direct involvement of the Department and three Departmental officers were made available for a working party, which was guided by a Steering Committee. This Committee included representatives of the Review of New South Wales Government Administration, the Department and the Consultants.

The final results of the investigations are expected to be available for inclusion in the 1978-79 Annual Report.

casting and television organisations and other media throughout the State.

In conclusion, I desire to express appreciation of the loyalty and able assistance which has been given so willingly by officers and employees of the Department, in service to the people of New South Wales through the extension, improvement and maintenance of the State's Main Roads System.

In particular, I wish to thank sincerely those senior officers who readily accepted added responsibilities while the review of the Department's Top Management Structure was being undertaken by the Commissioner for the Review of New South Wales Government Administration.

B.J. SEXTON  
COMMISSIONER FOR MAIN ROADS







## senior officers

### head office

#### Engineer-in-Chief's Branch

A/Deputy Engineer-in-Chief  
Chief Engineer (Bridges)  
Chief Engineer (Rural)  
A/Chief Engineer (Roadworks)  
Chief Engineer (Urban)  
A/Highways Engineer  
Mechanical Engineer  
Engineer for Programmes and Budgets  
Road Design Engineer  
Field Inspecting Engineer  
Contract Administration Engineer  
Executive Engineer  
Assistant Chief Engineer (Bridges)  
Bridge Engineer (Operations)  
Advance Planning Engineer  
Traffic Engineer  
Urban Investigations Engineer  
Engineer for Standard Specifications and Technical Instructions  
Rural Investigations Engineer  
Engineer for Country Council Works  
Materials and Research Engineer  
Asphalt Engineer  
Engineer for Computer Services  
Principal Surveyor and Property Officer  
Principal Architect

L.R. Browne  
L.H. Evans  
H.B. Korff  
V.R. Minus  
M.B. Fairlie  
E.W. King  
L.A.S. Flack  
K.J. Paynter  
V.P. O'Grady  
J.B. Anderson  
T.P. Desmarchelier  
G.A. Thompson  
S. Kaldor  
B.J. Pearson  
D.H.L. Francis  
K.W. Dobinson  
K.M. Anderson  
G.A. Castleden  
R.A. Dunstan  
C.N. Penney  
A. Leask  
K.T. Jones  
J.C. Webb  
A.T. Lenehan  
G.A. McKenzie

#### Secretarial Branch

Deputy Secretary  
Assistant Secretaries

M.A. Lloyd  
J.H. Tarleton  
E.A. Turner

#### Accounts Branch

Deputy Chief Accountant  
Group Accountants

E.J. Hanlon  
C.R. Filewood  
A.R. Clarke  
R.S.J. Price

#### Legal Branch

Assistant Chief Legal Officer

H. Mudie

### divisions

The Divisional Engineers and the headquarters of the Divisions as at 30 June 1978, were as follows:

Division	Headquarters	Divisional Engineers
Metropolitan	Milsons Point	J.A. Neeson
Parramatta	Parramatta	B.H. Butcher
Central Mountains	Lithgow	W.H. Lake
Illawarra	Wollongong	B. Moon
Hunter Valley	Newcastle	W.J. Brecht
Lower North Coast	Port Macquarie	G. Stow
North Eastern	Grafton	A.N. Griffin
Upper Northern	Glen Innes	S. Hallinan
North Western	Tamworth	D.J. Rae
Central Western	Parkes	W.L. Gordon
Central Northern	Bourke	M.R. Foster
Murray Darling	Broken Hill	N.W. Russell
Central Murray	Deniliquin	G.A. Cruickshank
South Western	Wagga Wagga	P.M.B. Pope
South Coast	Bega	J. Kelly
Southern	Goulburn	P. Moore
Inner Freeway Construction	Milsons Point	K. Edgar
Outer Freeway Construction	Milsons Point	L.R. James

The Department also produces — in limited numbers — a publication entitled "Supplement to the Annual Report", which contains extensive statistical information and financial appendices not included in this Report.



Department of Main Roads  
New South Wales



Supplement to the Annual Report  
of The Commissioner for Main Roads  
1977-78



Supplement to the Annual Report  
of The Commissioner for Main Roads  
1977-78



# Department of Main Roads, New South Wales

## SUPPLEMENT TO THE FIFTY-THIRD ANNUAL REPORT OF THE COMMISSIONER FOR MAIN ROADS

FOR THE YEAR ENDED 30 JUNE 1978

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# COUNTY OF CUMBERLAND ROAD CONSTRUCTION

## FREEWAYS

### F1 — Warringah Freeway

The construction of the second stage of the Warringah Freeway between Miller Street and Willoughby Road continued during the year.

It is expected that this section of the Warringah Freeway will be available to traffic about the end of September 1978.

Two major traffic route alterations were made during the year. The first (in October 1977) followed the closure of Chandos Street, Cammeray to northbound traffic. The traffic was diverted through a major cutting at Chandos Street directly to an off-loading ramp leading to Brook Street, Cammeray. The second (in May 1978) was the diversion of Willoughby Road traffic on to a new alignment following the reconstruction of the intersection of Willoughby Road with the Freeway.

A pedestrian overbridge linking Willoughby Road and Slade Street-Rhodes Avenue was brought into service during August 1977.

### F3 — North Western Freeway

Work on the section of the North Western Freeway between Erskine Street, City and Harris Street, Pyrmont continued during the year.

As work on columns and headstocks was substantially completed increased attention was directed to the construction of concrete and concrete/steel composite decks by both direct control and contract.

During the year the New South Wales State Dockyards completed a major contract for the fabrication and supply of steel girders.

Work also continued on the proposed deviation of Day Street and major reconstruction of roadways at the eastern terminal.

### F4 — Western Freeway

Due to limitation in funds construction of the Western Freeway was generally deferred with the exception of construction of Haslams Creek eastbound bridge, completed in May 1978, and major public utility adjustments and minor earthworks.

## STATE HIGHWAYS

### SH1 — Princes Highway

Extensive surface and subsoil drainage works were carried out near the upper section of the Bulli Pass to assist in stabilising the area.

### SH2 — Hume Highway

Replacement of broken slabs between Rookwood Road, Greenacre and The Horsley Drive, Lansvale, was completed.

Reconstruction of the damaged pavement (south-bound) between Prospect Creek, Lansvale and Hinkler Avenue, Liverpool was completed.

The construction of the eastern side-strip between Atkinson Street and Marsh Parade, Casula was completed.

Drainage works, pavement reconstruction and the provision of right turn bays, between Avoca Street and Cooper Road, Yagoona was commenced.

Reconstruction of the intersection of the Hume Highway with Hector Street, Johnston Road and Carysfield Road, Bass Hill was commenced.

Major improvements to the junction area at the intersection of the Highway and MR178 at Narellan were completed. The work commences on the Highway approximately 54.7 km south of Sydney and extends southward for approximately 1 km.

The junction features a bridge carrying northbound traffic over the intersection, two lane carriageways in each direction and island medians to improve the traffic flow.

### SH5 — Parramatta Road

Replacement of broken concrete slabs between Marlborough Road, Homebush West and Berry Street, Granville was completed.

Construction of a climbing lane at Pritchard Street, Wentworth Falls was completed, with the exception of channelisation of the intersection at Pritchard Street.

Asphaltic concrete strengthening and reshaping was carried out on the sections between 35.22 km and 96.69 km west of Parramatta.

Heavy patching work was carried out on sections between 35.22 km and 96.69 km west of Parramatta.

Work continued on the widening of the formation to 13.4 m and pavement to 7.4 m between 35.5 km and 74.3 km west of Parramatta.

Replacement of cable fencing with chain wire fencing was completed on MR184 — Bells Line of Road and on MR516 — Chifley Road, City of Blue Mountains.

Reconstruction of sections of failed pavement between Rooty Hill Road and Blacktown Road was completed.

Construction work on the access ramps and associated works to the Church Lane overpass at Prospect continued. The section between the Great Western Highway and Edgeware Road is complete and open to traffic. Work on the deviation between Edgeware Road and Blacktown Road is continuing.

A left turn lane was constructed for eastbound traffic at Charles Hackett Drive, St. Marys.

Reconstruction and sealing of the side-strips between York Street and Old Bathurst Road, Emu Plains was completed.

### SH10 — Pacific Highway

Construction of additional lanes between Ryde Road and Bridge Street, Pymble to provide three through lanes and a right turn storage lane at Ryde Road was completed.

Property adjustments and Public Utility adjustments were completed to enable channelisation of the intersection with Mowbray Road, Lane Cove to provide right turn storage lanes.

Reconstruction in concrete of damaged pavement continued between Cam Street and College Crescent, Waitara.

### SH13 — Pennant Hills Road

Widening was commenced to provide six lanes, plus median, through Carlingford Shopping Centre, including channelisation of traffic signal controlled intersections at Marsden Road (MR158) and Carlingford Road (MR373).

## ORDINARY MAIN ROADS

### MR154 — Bringelly Road

Liverpool City Council completed construction of the approaches to the new bridge over Thompsons Creek at Bringelly.

Reconstruction was commenced of failed sections of pavement between the Western Freeway (F4) and Maxwell Street, South Penrith.

Camden Council has almost completed the reconstruction from 0 km to 2.5 km from MR178, including the approaches to the new Narellan Creek bridge which is in service.



**MR154 — Macquarie Street**

Reconstruction and sealing was completed of the north eastern side-strip between James Street and Drummond Street, South Windsor.

**MR155 — Mulgoa Road**

Penrith City Council completed reconstruction between Jamison Street and Batt Street to provide a pavement 7.4 m wide on an improved alignment.

**MR156 — Castle Hill Road**

Hornsby Shire Council continued the widening to four lanes between Rogans Hill and Glen Road at Castle Hill.

**MR160 — Old Northern Road**

Baulkham Hills Shire Council commenced reconstruction of the intersection with Galston Road (MR161) at Dural.

**MR162 — Lane Cove Road**

The Department completed reconstruction, channelisation and provision of traffic signals at the intersection with Waterloo Road, North Ryde. This work was carried out in conjunction with the widening of Waterloo Road by Ryde Municipal Council.

**MR162 — Mona Vale Road**

Work was substantially completed between Ayres Road and First Rocks. Work is proceeding on the southbound carriageway between Killeaton Street and Ayers Road.

Six traffic lanes are in service between Bromley Avenue, Pymble and Cowan Road, St. Ives. Work is well advanced on the retaining walls and public utility adjustments between Highlands Avenue and Bromley Street, Pymble. This work will provide for six traffic lanes.

**MR164 — Condamine Street**

Warringah Shire Council continued the reconstruction and widening to six lanes of Condamine Street from Kenneth Road to Campbell Parade, Manly Vale.

**MR164 — Pittwater Road**

Warringah Shire Council completed construction in cement concrete of the eastern shoulder between Long Reef Surf Club and Anzac Avenue, Collaroy.

**MR164 — Barrenjoey Road**

Work on the southbound carriageway between Old Barrenjoey Road and Eastbourne Avenue has been completed. Work is proceeding on the northbound carriageway.

**MR166 — Burns Bay Road**

Widening to provide a right turn storage bay at the intersection with Penrose Street was completed.

**MR167 — New Canterbury Road**

Marrickville Municipal Council completed minor reconstruction and resurfacing between Morton Avenue and Pligott Street, Dulwich Hill.

**MR167 — Milperra Road**

Channelisation at the entrance to Hawker de Havilland's at Milperra was completed.

**MR168 — Forest Road**

Rockdale Municipal Council completed reconstruction of the intersection with Glenfame Street at Bexley.

**MR170 — Botany Road**

A detour around Botany Road and Beauchamp Road intersection was completed.

Work has commenced on reinforced earth walls required for a railway overpass at the junction of Botany Road and Beauchamp Road.

The first stage of the extension of Botany Road to Bunnerong Road was opened to traffic in December 1977.

**MR171 — Bunnerong Road**

A 0.5 km section of divided carriageway was completed between Flint Street and Beauchamp Road.

**MR172 — Bondi Junction By-Pass**

Work on the Bondi Junction By-Pass between Mancur Street and Bondi Road at Bondi Junction continued and is planned for completion by January 1979 to coincide with the opening of the Eastern Suburbs Railway under construction by the Public Transport Commission.

The Department completed the substructure of a major viaduct between Vernon Street and Adelaide Street, and a major contract is in hand for the manufacture and placing of girders for the deck of the viaduct.

Approach roadworks completed during the year include a number of reinforced earth and mass concrete retaining walls, and various contracts were let for concrete coping and pavement works.

**MR173 — New South Head Road**

Stage 1 of the reconstruction and widening of the intersection with Ocean Street and Ocean Avenue was completed on schedule. Work involved the construction of three lanes over the western half of the Public Transport Commission tunnel under Ocean Street. The work required detailed programming in order to co-ordinate adjustments to all public utilities and to comply with the time table developed in conjunction with the Public Transport Commission.

The end of November 1978 has been set as the deadline for completion of Stages 2 and 3 in order to allow the Eastern Suburbs Railway to be opened as planned in January 1979.

**MR174 — Pittwater Road**

Warringah Shire Council commenced reconstruction, including the provision of a four cell box culvert at Cabbage Tree Creek, between Mona Street and Bayview Avenue, Bayview.

**MR177 — Appin Road**

Campbelltown City Council has almost completed the first stage of the deviation to by-pass Queen Street, Campbelltown.

Work continued on the deviation between the F5 and Campbelltown, including the approaches to the new replacement structure at Bow Bowling Creek.

**MR184 — Windsor Road**

The Department continued with widening to six lanes between Daking Street and Briens Road, Northmead.

Construction work was completed on the approaches to the new bridge over South Creek, and the widening of Bridge Street, Windsor.

Windsor Municipal Council commenced work on the provision of kerb and gutter, improved drainage and sealing of the side-strip between Paget Street and Toxana Street, Richmond.

**MR190 — Rookwood Road**

Reconstruction was completed of the dual carriageway from Boardman Street to Lloyd Avenue at Yagoona.

**MR190 — Joseph Street**

Auburn Municipal Council continued reconstruction to provide dual carriageways from the Bankstown Municipal Boundary (Lewis Street) to Leila Street at Lidcombe.

**MR200 — Concord Road**

Concord Municipal Council commenced channelisation of the intersection with Alfred Street, Rhodes.

**MR227 — The Kingsway**

Sutherland Shire Council started reconstruction and widening between Wandella Road and Sylvania Road, Miranda.



**MR309 — Aston Street**

Reconstruction work was completed on the dual carriage-ways from Eleanor Street to Hassall Street at Rosehill.

**MR315 — King Georges Road**

Hurstville Municipal Council commenced reconstruction and widening between Young Street and Frederick Street, Beverly Hills. This work includes reconstruction of the intersection with Stoney Creek Road.

**MR328 — Warringah Road**

Rock bolting and guniting the batter north of Roseville Bridge was completed.

Widening was completed to provide four lanes for city bound traffic between Maiga Avenue and Clive Street, Roseville.

**MR366 — Bobbin Head Road**

Ku-ring-gai Municipal Council completed widening between Kathy Close and Bertillee Road, Turramurra.

**MR373 — Epping Road**

Work continued on the construction of dual carriage-ways between Delhi Road (MR191) and Shrimptons Creek at North Ryde, including the new interchange at the intersection of Epping Road and Lane Cove Road (MR162). It is planned that the interchange will be available to traffic towards the end of July 1978.

**MR512 — Heathcote Road**

A 1.25 km length of climbing lane between Princes Highway and New Illawarra Road was opened to traffic in December 1977.

**MR515 — Elizabeth Drive**

Reconstruction and widening to six lanes between Copeland Street (MR608) and Maxwells Avenue, Mount Pritchard was continued.

**MR536 — Mamre Road**

Reconstruction and sealing of side-strips between the Great Western Highway and Saddington Street, St. Marys was completed.

**MR537 — Rooty Hill Road**

Reconstruction was completed of failed pavement between Short Street and Spencer Street, Rooty Hill.

**MR570 — Hawkesbury Road**

Work was completed on reconstruction and bituminous surfacing of the section Davesta Street to Paterson Road, Springwood.

**MR608 — Copeland Street**

Reconstruction and widening to a six lane divided carriageway between Hoxton Park Road and Hinkler Avenue at Liverpool was completed.

**MR609 — The Horsley Drive**

Reconstruction and widening continued for the provision of four lanes between Fairfield Street and Alan Street at Fairfield. This work is being carried out in conjunction with the widening of the existing railway overbridge at Fairfield.

**MR617 — Foreshore Road**

Construction of a concrete road from Botany Road to General Holmes Drive was commenced.

## SECONDARY ROADS

**SR2014 — Bexley Road**

Canterbury Municipal Council completed reconstruction and bituminous surfacing of side-strips between stormwater channel and Colbina Road, Clemton Park.

**SR2043 — Edgworth David Avenue**

Hornsby Shire Council commenced reconstruction between Sherbrook Road and Park Avenue at Hornsby.

**SR2049 — Parkes Street**

Parramatta City Council continued the construction of the extension of Parkes Street between Station Street and Wigram Street and also the reconstruction between Wentworth Street and Station Street at Harris Park.

**SR2058 — Wicks Road**

Ryde Municipal Council commenced reconstruction between Epping Road (MR373) and Twin Road at North Ryde.

**SR2063 — Londonderry Road**

Penrith City Council completed the widening to 7.4 m of the pavement between Windsor Road (MR154) and the Windsor Municipal boundary.

**SR2068 — The River Road**

Bankstown Municipal Council completed the reconstruction of the intersection of The River Road and Prince Street, Revesby.

**SR2075 — Captain Cook Drive**

Sutherland Shire Council continued reconstruction and widening between Fenton Avenue and Gannons Road, Caringbah.

**SR2081 — Rutledge Street/First Avenue**

Ryde Municipal Council continued the construction of the approaches to the new bridge over the railway line at Eastwood.

**SR2084 — Seven Hills Road**

Blacktown Municipal Council continued the reconstruction and channelisation of the intersection of Seven Hills Road and Abbott Street at Seven Hills.

Baulkham Hills Shire Council completed the construction of the eastbound kerbside lane between Chapel Lane and Toongabbie Creek, West Baulkham Hills.

**SR2085 — Richmond Road**

Blacktown Municipal Council commenced construction of the approaches to the new bridge over Eastern Creek at Doonside.

**SR2087 — Pemberton Street**

Strathfield Municipal Council continued the reconstruction and widening to four lanes between the Hume Highway (SH2) and Ada Street at Strathfield.

**SR2088 — The Horsley Drive**

Fairfield Municipal Council completed the reconstruction and widening to four lanes between Justin Street and Market Street at Smithfield.

**SR2090 — Juno Parade**

Bankstown Municipal Council commenced improvement of the intersection of Juno Parade, Boronia Road and Waterloo Road, Greenacre.

Bankstown Municipal Council completed the reconstruction of Juno Parade between Wentworth Street and Roberts Road at Lakemba.

**SR2093 — Penshurst Street**

Willoughby Municipal Council completed reconstruction and widening between Eden Street and Victoria Avenue, Willoughby.

**SR2094 — Brunker Road**

Bankstown Municipal Council continued the reconstruction of damaged pavement between the Hume Highway (SH2) and Rookwood Road (MR190) at Greenacre.



## **TOURIST ROAD**

### **Tourist Road 4006 — The River Road**

Baulkham Hills Shire Council continued the reconstruction to provide a pavement width of 6.2 m between Wisemans Ferry and Lower Portland.

## **COUNTY ROADS**

### **CR5016**

Construction commenced on the deviation between Clancy Street and Alma Road at Padstow. This work forms

part of the connection between Davies Road and the northern approach to Alford's Point Bridge.

### **CR5037 — North Parramatta By-Pass**

The section between Victoria Road (MR165), Rydalmere and Pennant Hills Road (SH13), North Parramatta was opened to traffic.

Construction continued on the section between Pennant Hills Road (SH13), North Parramatta and Windsor Road (MR184) at Northmead, including provision of bridges at Pennant Hills Road, Lackey Street, North Rocks Road and Darling Mills Creek.



# COUNTRY ROAD CONSTRUCTION

## FREEWAYS

### F3 — Sydney-Newcastle Freeway

Work commenced partly by contract and partly by direct control on the section of the Freeway between Ourimbah Creek and Wyong River.

Site investigation and design continued for the section from Wyong River to Wyee Bifurcation (including the motorway link to Doyalson).

Site investigation and design commenced on the section from Mt. White to Somersby and Wyee Bifurcation to Dora Creek.

### F5 — South Western Freeway

Work continued on the section from Kenny Hill (54.4 km) to the Nepean River at Pheasants Nest (77.2 km south of Sydney).

Work continued on the section from the Nepean River at Pheasants Nest to Yanderra, by contract and by direct control.

### F6 — Southern Freeway

Work recommenced on the interchange at Gladstone Avenue to complete the connection to Springhill Road (MR568) via Masters Road.

Work proceeded on the section of the Freeway between Northcliffe Drive (MR613) at Berkeley and Kana-hooka Road, Dapto, including the approaches to the new Mullet Creek bridges and the bridges over Northcliffe Drive.

## STATE HIGHWAYS

### SH1 — Princes Highway

Work commenced on reconstruction to provide four lanes over a length of 4 km on an improved alignment, to eliminate a winding section of road 3.3 km to 7.3 km south of Kiama.

Reconstruction at Meroo Meadow from 6.3 km to 9.5 km north of Nowra was completed.

Work commenced on the reconstruction on an improved alignment between 7.3 km and 9.2 km south of Nowra.

Four climbing lanes were constructed: three of these were for southbound traffic at 23.45 km to 24.16 km, 37.27 km to 37.86 km and 43.39 km to 44.01 km south of Nowra and one northbound 23.95 km to 24.65 km south of Nowra.

Reconstruction of the section 2.7 km to 9.0 km south of Bega was continued.

Construction of the climbing lane between 55.1 km and 56.1 km south of Bega was completed.

### SH2 — Hume Highway

Reconstruction between the South Western Freeway (F5) at Aylmerton and Mittagong to provide four lanes between 117.0 km and 123.1 km south of Sydney was continued.

Work continued on the strengthening of the existing pavement between 126.1 km and 128.8 km south of Sydney which included a climbing lane south of Gibbergunyah Creek.

Construction of dual carriageways on a deviation between Exeter Road and Paddys River from 154.3 km to 164.8 km south of Sydney was continued.

Construction of dual carriageways on an improved alignment between Paddys River and Uringalla Creek from 165.9 km to 169.4 km south of Sydney was completed.

Work commenced on the construction of the second carriageway between 46.7 km and 51.6 km south of Mittagong.

Construction of dual carriageways, 3.5 km long, in association with construction of dual carriageway bridges over the Main Southern Railway Line at Mulwaree Ponds and the Crookwell Railway Line at North Goulburn, was completed.

Restoration of failed cement concrete pavement (Auburn Street) from 0.64 km north of Goulburn to 0.39 km south of Goulburn was generally completed with the exception of minor items of the contract. The work consisted of cement grouting and replacement of failed slabs.

Cowper Street reconstruction by the Goulburn City Council proceeded between 0.9 km and 2.5 km south of Goulburn. The section between 0.9 km and 1.92 km was generally complete with the exception of short sections of asphaltic concrete surfacing work. The section between 1.92 km and 2.5 km was excavated and gravelled to sub-base level on the southbound lane.

Construction of the approaches to the new bridge over Fish River at 45.1 km west of Goulburn, including the construction of an overtaking lane between 45.1 km and 47.6 km south of Goulburn, was completed.

Construction was completed of an auxiliary lane between 59.0 km and 61.0 km south of Goulburn.

Construction of the approaches to the new bridge over the Yass River at Yass was completed.

The extension of dual carriageways between 6.4 km and 10.6 km west of Yass was completed. The completion of this section provides continuous dual carriageways for a total distance of 10.0 km.

The strengthening of the pavement of the Bowring Deviation 12.0 km to 16.4 km west of Yass was commenced. Extensive sub-surface drainage works are proposed to provide a stable pavement.

Work commenced between 32.1 km and 39.3 km west of Yass on the extension of re-alignment work on the approaches to the new bridge over Connors Creek 35.0 km west of Yass.

Reconstruction between 76.0 km and 77.0 km south of Yass to eliminate dangerous reverse curves was commenced.

Construction of the approaches to the new bridge over the Murrumbidgee River at Gundagai was continued.

Formation of the northern approaches to the proposed new bridge over Jessops Lagoon, 4.3 km south of Gundagai, as a continuation of the dual carriageways on the southern approach to the new bridge over the Murrumbidgee River at Gundagai was commenced.

Work continued throughout the year on the programme of pavement strengthening and widening for the full length of the Hume Highway between the Barton Highway and Hillas Creek, a total distance of 138.9 km. The vertical alignment was improved through the village of Bookham to eliminate two crests and provide improved safety for school children.

Widening and strengthening of the pavement on the existing alignment and grade is continuing between 28.0 km and 37.0 km south of Gundagai.

The realignment and reconstruction of the section between 3.6 km and 20.4 km south of Tarcutta continued, including the approaches to Comatawa Creek Bridge which has been opened to traffic.

The intersection of SH2 and MR125 in Albury was reconstructed and channelised to permit the installation of traffic signals.



### **SH3 — Federal Highway**

Construction of dual carriageways between 14.3 km and 22.2 km south of Goulburn was completed.

### **SH4 — Snowy Mountains Highway**

Reconstruction between 0.75 km and 5.9 km east of Tumut was commenced.

### **SH5 — Great Western Highway**

Work continued on the widening of formation of section from McKanes Road to River Lett Hill 30.7 km to 34.6 km west of Katoomba.

Construction of the approaches to Marrangaroo Creek Bridge 2.3 km to 6.1 km west of Lithgow was continued.

Reconstruction and sealing at Diamond Swamp 31.9 km to 34.5 km west of Lithgow was completed except for the construction of the concrete lined table drain.

Construction of approaches to new bridge over River Lett was completed.

### **SH6 — Mid Western Highway**

Strengthening of pavement including construction of a climbing lane at Fitzgeralds Mountain 21.4 km to 23.3 km west of Bathurst was completed.

Pavement widening and strengthening 28.3 km to 33.8 km west of Bathurst was completed.

Reconstruction of the section of the highway in Adelaide Street, Blayney was completed.

Waugoola Shire Council completed widening the formation and strengthening the pavement from 14.6 km to 15.3 km east of Cowra. Council has work in progress on pavement widening and strengthening from 10.3 km to 12.7 km east of Cowra.

Cowra Municipal Council completed the reconstruction of the highway between Fitzroy and Carleton Streets, Cowra.

Pavement widening and strengthening is being carried out by Weddin Shire Council from 29.0 km to 32.0 km east of Grenfell. The section from 52.6 km to 53.2 km west of Grenfell is nearing completion.

### **SH7 — Mitchell Highway**

Work commenced on strengthening the pavement and providing a climbing lane near Rocks Hill from 15.4 km to 19.0 km west of Bathurst.

Widening the formation and strengthening the pavement from 47.7 km to 50.6 km west of Bathurst was completed.

Orange City Council has preliminary works in hand for the first section of the reconstruction of the central 6.2 m of pavement in Summer Street from the intersection with Lone Pine Avenue to the Railway Level Crossing.

Pavement widening and strengthening is in progress from 4.06 km to 4.86 km west of Orange.

Construction of the approaches to a new bridge over Molong Creek at Ermbie from 28.1 km to 29.4 km west of Orange is in progress.

Pavement strengthening and widening is in progress at various locations from 38.6 km to 46.2 km north of Molong.

Reconstruction and bituminous surfacing was completed from 57.9 km to 63.1 km north of Molong.

Reconstruction and bituminous surfacing of pavement was completed at the level crossing at Trangie.

Reconstruction and widening was completed from 16.8 km to 18.7 km south of Bourke and is in progress between 28.0 km and 30.65 km north of Bourke.

### **SH8 — Barrier Highway**

Reconstruction and widening was completed from 86.4 km to 108.5 km west of Nyngan.

Construction of the approaches to four bridges over the Darling River Flood Plain 1.0 km to 7.0 km east of Wilcannia was completed.

Except for the final seal coat, work was completed on

reconstruction and widening of the formation to 10.4 m (including Willa Willyong Creek Bridge approaches — 2 bridges) from 2.2 km to 9.2 km east of Broken Hill.

Broken Hill City Council commenced work on reconstruction and bituminous surfacing of Rakow Street, 3.5 km to 4.7 km west of Broken Hill.

Reconstruction and widening of the formation to 10.4 m from 6.0 km to 12.2 km west of Broken Hill (including the Stirling Vale Creek deviation from 6.3 km to 12.0 km) was continued.

### **SH9 — New England Highway**

Construction of divided carriageway was completed from Chelmsford Drive to Metford Road (25.9 km to 28.2 km west of Newcastle).

Reconstruction and channelisation of the intersection with Ledsam and Regent Streets, Maitland was commenced.

Pavement strengthening and resheeting with asphaltic concrete was commenced through Singleton.

Pavement strengthening and resheeting with asphaltic concrete was completed through Muswellbrook.

Strengthening and resheeting was completed between Taro Railway overbridge and Thornton Road.

Augmentation of drainage and table drain protection was completed near Quarter Sessions Road, Taro.

Construction of divided carriageway was completed from 9.8 km to 12.1 km west of Hexham.

Reconstruction work was continued between Farley Road and Anambah Road, Rutherford.

Reconstruction work was completed west of Rutherford Aerodrome to Lochinvar School.

Pavement strengthening and sealing was commenced through Lochinvar.

Reconstruction work was commenced between Branxton and Black Creek 23.7 km to 25.9 km west of Maitland, including provision of a passing lane at Coal Storage access.

Pavement resheeting and pavement raising was completed between Mudies Creek and Kelso Street, Singleton.

Correction of deformed sections, together with an overall flush reseal of pavement, was completed between 67.3 km and 82.5 km west of Maitland.

Scour correction was completed 81.9 km west of Maitland (35.4 km west of Singleton).

Pavement strengthening and widening was commenced from 3.2 km to 10.3 km north of Muswellbrook.

Widening shoulders and extension of culverts was completed on the section between Scone and Parkville.

Widening shoulders and extension of culverts from 58.2 km to 62.33 km north of Muswellbrook, near Blandford was completed.

Reconstruction from 62.33 km to 63.1 km north of Muswellbrook, near Campbells Creek was completed.

Tamworth City Council commenced reconstruction of the intersection of Brisbane and Marius Streets, Tamworth.

Major reconstruction work to provide dual carriageways over the first Moonbi Range, 24.9 km to 30.1 km north of Tamworth was continued.

Widening shoulders and extension of culverts on the section from 33.8 km to 36.2 km north of Tamworth was completed.

Construction of the approaches to Uralla Creek Bridge in Bridge Street, Uralla was commenced.

Construction of a deviation between Uralla and Barleyfields was continued.

Armidale City Council commenced reconstruction works from Erskine Street to the City boundary.

Reconstruction between 2.4 km and 3.8 km, and between 5.8 km and 9.6 km north of Glen Innes was completed.

The Department commenced reconstruction between 44.3 km and 46.6 km north of Glen Innes.



The Department is continuing reconstruction between 83.8 km and 89.1 km north of Glen Innes.

Tenterfield Shire Council completed reconstruction at Rouse Street (SH9). This work, in conjunction with a widened resal on a previously reconstructed section, gives a pavement width of 7.4 m in Tenterfield between Molesworth Street and the Willow Bridges.

Construction work is continuing on the approaches to the new bridge over Browns Creek, north of Tenterfield.

#### **SH10 — Pacific Highway**

Reconstruction was commenced at Mt. Pennang to improve the junction with Wisemans Ferry Road (MR225).

Reconstruction was completed at Ourimbah.

Construction of the approaches to the duplicate bridge at Ourimbah Creek was completed.

Construction of the approaches to the widened bridge over Kangy Angy Creek was completed.

Strengthening of pavement and shoulders was completed from Kangy Angy Creek to Tuggerah.

Construction was commenced of an auxiliary lane at Johnson Road, Tuggerah.

Pavement widening to 7.4 m was completed at various locations between 108.9 km and 128.9 km north of Sydney.

Construction was commenced of an auxiliary lane, including reconstruction of failed pavement between Kanwal and Toukley turn off.

Construction was completed of a climbing lane at Wallarah Hill, 115.1 km to 116.6 km north of Sydney.

Construction of a second carriageway to provide dual two-lane divided carriageways between Doyalson and Gwandalan was commenced.

Pavement widening and construction of dual carriageways was commenced between Swansea Bridge and Docker Street, Marks Point.

Improvement of curves was commenced at Violetown Road and Old Belmont Road, North Belmont.

Reconstruction of the intersection with Dudley Road, Charlestown to provide storage and speed-change lanes was completed.

Improvements were completed to the intersection at the junction with SH23, Ida Street, Charlestown.

Reconstruction and bituminous surfacing was completed from Balickera Channel to Twelve Mile Creek.

Construction of the approaches to a bridge over Traynors Creek was completed.

Pavement widening was commenced between Boolambayte Creek and O'Sullivan's Gap.

Pavement strengthening with asphaltic concrete was commenced over O'Sullivan's Gap.

Reconstruction of failed sections was completed between Lake Macquarie Municipal boundary and Scenic Drive, Merewether.

Widening to provide an auxiliary lane for southbound traffic from Hugh Street to near Scenic Drive was completed.

Construction of a deceleration lane, median, kerb and storage lanes was completed between 0.96 km west of Wallsend Road (SH23) and Ironbark Creek.

The reconstruction and widening of distressed pavement was commenced at Nablac.

Taree Municipal Council completed the reconstruction of a short length of highway between the new bridges over Browns Creek and the Chatham Railway overbridge.

Construction was completed of a deviation on the approaches to a new bridge at Two Mile Creek.

Work was commenced on the establishment of a rest area 30.6 km north of Taree.

Widening of the approaches to the bridge at Herons Creek was completed.

Construction was completed of a deviation over the Cooperabung Mountain.

Reconstruction and widening of distressed pavement was continued at Eungai.

Reconstruction of the approach to Raleigh Bridge was completed between 90.0 km and 90.7 km north of Kempsey.

Strengthening of existing pavement and provision of a northbound climbing lane was completed from 95.65 km to 96.55 km north of Kempsey at Perrys Hill.

Work was completed on the road approaches and two cell reinforced concrete box culvert at Boambee Flood Channel.

Reconstruction and bituminous sealing of a deviation at Double Crossing Creek was continued.

Construction was continued from Carsons Creek to Dirty Creek.

Construction of the approaches to Swan Creek Bridge was completed.

The replacement of damaged concrete slabs between 4.0 km and 7.4 km north of Grafton was commenced.

Strengthening and resurfacing of failed sections between 36.0 km and 44.0 km north of Grafton was commenced.

Reconstruction and widening, including provision of climbing lanes, was commenced between 27.3 km and 28.5 km north of Ballina (Stage 1).

Reconstruction and strengthening was completed on the section between 61.9 km and 63.3 km north of Ballina. This included raising one section of pavement above flood level.

Reconstruction and strengthening highway pavement was commenced in South Murwillumbah.

Reconstruction and strengthening highway pavement was completed through Condong.

#### **SH11 — Oxley Highway**

Port Macquarie Municipal Council commenced construction of approaches to the new bridge over Koolon-bung Creek.

Reconstruction and widening of distressed pavement was commenced on a section from 6.4 km to 9.4 km west of Port Macquarie.

Stabilisation of a landslide area near Ellenborough was completed.

Work was completed on the section 106.0 km to 109.6 km west of Wauchope.

Restoration of distressed sections of pavement at various locations within Walcha Shire is proceeding.

Parry Shire Council is continuing with reconstruction from 40.12 km to 42.2 km west of Tamworth, including approaches to the recently enlarged concrete box culvert at Long Hollow Gully.

Parry Shire Council completed reconstruction from 42.45 km to 44.41 km west of Tamworth, including approaches to the new bridge over Menedebri Creek.

Liverpool Plains Shire Council completed widening of formation and bituminous sealing, 50.7 km to 56.9 km, 60.0 km to 62.15 km and 70.8 km to 73.0 km west of Tamworth, and commenced similar works 73.4 km to 74.5 km west of Tamworth. Council also commenced work on a concrete causeway at Carroll to provide a stable pavement in a poorly drained location which is subject to flooding. The latter is partially funded through the State Government's Special Employment Scheme.

Construction of the approaches to Coxs Creek Bridge at Mullaley was completed.

The final seal was applied on new work across the Mullaley Flood Plains, with the exception of 1 km of a tar stabilised section which was sealed with a 20 mm seal only.



Work on the section 46.2 km to 52.6 km west of Gunnedah is progressing and a length of 2.5 km has been opened to traffic. This section has a temporary sand prime seal.

Work on the widening of the formation was completed between Rocky Glen and Coonabarabran west of Gunnedah.

#### **SH12 — Gwydir Highway**

Reinstatement of failed sections between 22.9 km and 69.5 km west of Grafton was completed.

Strengthening and widening of the existing pavement over short-distance sections totalling 5.04 km between 16.8 km and 38.8 km east of Glen Innes is continuing.

The Department commenced strengthening and widening the existing pavement between 5.60 km (Beardy Waters Bridge) and 7.07 km and between 9.91 km and 11.51 km east of Glen Innes.

Glen Innes Municipal Council commenced reconstruction between 2.24 km and 5.60 km (Beardy Waters Bridge). This adjoins the section from 1.04 km to 2.24 km east of Glen Innes which was completed.

Seymour Shire Council commenced reconstruction, including minor realignment and widening of the existing pavement to 6.7 m, between 5.73 km and 7.73 km west of Glen Innes.

Macintyre Shire Council completed strengthening and widening the existing pavement to 6.7 m between 10.3 km and 11.2 km and between 11.7 km and 15.5 km east of Inverell.

Yallaroi Shire Council completed strengthening and widening the existing pavement to 6.7 m from 59.46 km to 61.73 km west of Inverell.

Yallaroi Shire Council continued strengthening and widening the existing pavement to 6.7 m from Gravesend to the Boolooroo Shire boundary.

Reconstruction between 59.57 km and 64.4 km west of Moree was completed and work was commenced on the reconstruction of the adjoining section between 64.4 km and 71.4 km.

#### **SH14 — Sturt Highway**

Work continued on the reconstruction from 23.2 km to 33.4 km east of Wagga Wagga.

Formation widening and sealing the shoulders was completed from 0 km to 3.0 km, 8.5 km to 13.5 km, 61.7 km to 66.0 km and 66.5 km to 69.5 km west of Hay.

Reconstruction and bituminous surfacing on an improved alignment, and formation widening is continuing from 97.5 km to 99.0 km west of Hay and has been completed from 99.0 km to 102.4 km.

Formation widening and sealing the shoulders was completed from 10.5 km to 15.5 km and from 104 km to 110 km east of Hay.

Reconstruction, including replacement of an irrigation culvert at Euston was continued.

Work was completed to sand primer seal stage of the reconstruction and bituminous surfacing 32.5 km to 41.8 km west of Euston.

Work was completed on the construction and bituminous surfacing of a deviation of the highway 41.8 km to 45.6 km west of Euston.

#### **SH15 — Barton Highway**

Work by Departmental direct control on a programme of pavement strengthening and formation widening was continued. Reconstruction was completed between 22.39 km and 24.21 km south of Yass, shoulder widening and drainage works between 33.85 km and 36.65 km south of Yass, and minor realignment, formation widening and pavement strengthening between 26.4 km and 28.0 km south of Yass.

There is a continuing programme of works throughout the length of this national highway to strengthen and widen the pavement and improve the drainage and alignment and grading of the road.

#### **SH16 — Bruxner Highway**

Construction of a minor deviation of the highway at Mummulgum between 25.3 km and 26.3 km west of Casino was commenced. This work is necessary to avoid a section of the old alignment which is subject to severe and repeated scour by Deep Creek.

Lismore City Council recently commenced work on the construction of Section "B" of the Lismore deviation. This work is the final link in the future highway deviation around Lismore.

Tenterfield Shire Council continued strengthening and widening of existing bituminous pavement to 6.7 m between 9.65 km and 14.26 km west of Tenterfield.

Tenterfield Shire Council completed reconstruction and bituminous surfacing of the Mole River Hill section between 51.5 km and 57.3 km (Mole River) west of Tenterfield.

Ashford Shire Council continued construction of the Yetman-Boggabilla Deviation between 1.6 km and 18.4 km west of Yetman.

Yallaroi Shire Council continued construction of the Yetman-Boggabilla Deviation between 18.4 km and 42.7 km west of Yetman.

#### **SH17 — Newell Highway**

Reconstruction of existing failed pavement edges between 4.0 km and 46.0 km north of Moree continued. The section 5.1 km north of Moree was completed.

The Department completed reconstruction and bituminous surfacing between 0.43 km and 8.43 km north-west of Boggabilla.

Construction of approaches to the newly constructed bridge over Narrabri Creek, together with widening of the approaches of the existing adjacent bridge over Narrabri Rivulet in Narrabri, was completed.

Jemalong Shire Council completed pavement widening and improvement of alignment between the southern approach to Fitzgeralds Bridge and the junction of MR377, and commenced widening and strengthening 7.1 km to 10.1 km south of Forbes.

Forbes Municipal Council commenced improvement to the railway level crossing at Forbes.

Reconstruction and bituminous surfacing between Baker Street and Hartigan Avenue in Parkes was completed by the Department in conjunction with Parkes Municipal Council.

Reconstruction and bituminous surfacing is continuing from 31.7 km to 34.8 km north of Parkes.

Reconstruction and bituminous surfacing was completed from 1.6 km to 8.9 km north of Finley.

Reconstruction and bituminous surfacing was completed from 11.8 km to 14.2 km north of Finley, including widening of the irrigation crossing at 13.4 km north of Finley.

Reconstruction and bituminous surfacing of the deviation from 26.0 km to 27.8 km north of Finley was commenced.

#### **SH18 — Castlereagh Highway**

Reconstruction and pavement widening, including the construction of an additional floodway, is in progress south of Walgett between 109.41 km and 115.73 km north of Coonamble.

Reconstruction and lowering of floodways is in progress at 35 Mile Big Warrambool, 55.4 km north of Walgett.

Reconstruction has been completed between 80.5 km and 103.0 km north of Walgett.



### **SH19 — Monaro Highway**

Work continued on the reconstruction of the section from 78.75 km to 82.0 km south of Canberra which includes the approaches to a new bridge over the Bredbo River at Bredbo.

Construction of the length between 82.0 km and 89.0 km south of Canberra was completed.

### **SH20 — Riverina Highway**

Berrigan Shire Council commenced work to raise the pavement between Mornalong Street and Woodstock Road, Berrigan.

### **SH21 — Cobb Highway**

Deniliquin Municipal Council completed reconstruction of the pavement at the intersection of the Riverina and Cobb Highways.

Murray Shire Council completed, on the Department's behalf, channelisation of the junction with Shaw Street, Moama.

Widening of the formation and sealing of the shoulders was completed from 10.1 km to 15.4 km south of Hay.

Formation widening, shoulder and pavement edge reconstruction was completed from 14.7 km to 17.5 km, and 17.9 km to 23.2 km north of Deniliquin.

Reconstruction and bituminous surfacing 24.2 km to 32.3 km south of Wilcannia was completed.

Reconstruction from 32.3 km to 52.4 km south of Wilcannia is continuing.

### **SH23 — Charlestown Road to Sandgate Road**

Strengthening of the pavement and resheeting was completed between SH10 and Myall Road.

Construction of an auxiliary lane at Wimbleton Grove, Kotara Heights was commenced.

Resheeting and strengthening of the pavement was commenced between Vale and Marton Streets, Shortland.

Strengthening and resheeting of Blue Gum Road, Jesmond was completed.

Widening of the pavement in the vicinity of Astra Street, Sandgate was commenced.

Construction of a climbing lane at Astra Street, Sandgate was completed.

### **SH24 — Mt. Lindesay Highway**

Reconstruction and bituminous surfacing between 9.45 km and 11.14 km north of Woodenbong was completed, except for the final seal which will be completed early in 1978-79.

### **SH25 — Illawarra Highway**

Reconstruction to an improved alignment and grading from 58.9 km to 63.9 km from SH1 between Wells Creek and the Hume Highway, including the improvement to the intersection with the Hume Highway, was completed.

### **SH26 — Calga to Ourimbah Road**

Reconstruction and widening to provide four lanes between 98.1 km and 98.9 km north of Sydney, in conjunction with widening of Ourimbah Creek Road overbridge, was completed.

## **TRUNK ROADS**

### **TR51 — Canberra-Batemans Bay**

Tallaganda Shire Council completed pavement strengthening, drainage improvement and formation widening 34.79 km to 35.80 km north of Braidwood and commenced similar work 0 km to 24 km north of Braidwood; the section 9.6 km to 11.4 km was completed during the year.

Tallaganda Shire Council completed the approaches to the new Warri Bridge over the Shoalhaven River during the year.

Eurobodalla Shire Council completed construction of climbing lanes between 13.19 km and 14.69 km west of Batemans Bay, between 20.3 km and 21.4 km west of Batemans Bay, and between 31.0 km and 31.4 km west of Batemans Bay.

### **TR52 — Queanbeyan-Crookwell**

Queanbeyan City Council completed the construction of dual carriageways on TR52 (Yass Road) from its intersection with TR51 to Endurance Avenue, a distance of 0.8 km.

Yarrowlumla Shire Council completed reconstruction and improvements 20.40 km to 20.62 km north of Queanbeyan.

Goodradigbee Shire Council completed reconstruction and bituminous surfacing 0 km to 4 km south of Gundaroo Bridge.

Gunning Shire Council commenced reconstruction to base course stage between 20.5 km and 21.8 km south of Gunning, including the immediate approaches to the culvert structure over Nelanglo Creek.

### **TR54 — Goulburn-Ilford**

Evans Shire Council continued reconstruction and bituminous surfacing 49.1 km to 50.6 km south of Bathurst.

Evans Shire Council continued reconstruction and bituminous surfacing 44.2 km to 46.3 km north of Bathurst.

Rylstone Shire Council continued reconstruction and bituminous surfacing 11.8 km to 13.8 km west of Ilford.

### **TR55 — Marrangaroo-Mullaley**

Rylstone Shire Council commenced pavement strengthening and bituminous surfacing of selected sections between 0 km and 15.0 km south of Ilford.

Coolah Shire Council commenced reconstruction and bituminous surfacing 19.0 km to 25.7 km north of Coolah.

Coonabarabran Shire Council completed reconstruction 29.8 km to 34.4 km north of Coolah.

Liverpool Plains Shire Council continued construction 25.13 km to 27.6 km south of Mullaley and commenced construction 23.0 km to 25.13 km south of Mullaley.

### **TR56 — Forbes-Yass**

Forbes Municipal Council commenced reconstruction and bituminous surfacing from Berkley Street to Iron Bridge at Forbes.

### **TR57 — Nyngan-Old Junee**

Lachlan Shire Council completed reconstruction and sealing 3.2 km to 6.4 km south of Tottenham and also completed construction of approaches to new bridge over Wallamundry Creek 11.5 km south of Condobolin.

Bland Shire Council completed reconstruction and bituminous surfacing 1.8 km to 5.9 km north of West Wyalong.

Temora Municipal Council commenced work on widening and improvement of the section 0.8 km to 2.6 km north of Temora.

### **TR61 — Orange-Cobar**

Cabonne Shire Council continued reconstruction and bituminous surfacing 2.5 km to 4.8 km west of the Orange City boundary.

Lachlan Shire Council completed strengthening of pavement 0.37 km to 2.37 km north of Condobolin.



#### **TR62 — Scone-Craboon**

Scone Shire Council completed reconstruction 40.51 km to 41.90 km west of Scone.

Merriwa Shire Council completed reconstruction and realignment 0 km to 4.44 km west of MR214.

Coolah Shire Council continued construction of the approaches to the proposed structure over Tailbragar River at Uarby, 29.8 km to 32.2 km from TR55 at Craboon.

#### **TR63 — Tamworth-Yelman**

Parry Shire Council completed reconstruction 20.70 km to 21.96 km north of Tamworth.

Barraba Shire Council completed sealing of newly constructed approaches to new bridge over Sheepstation Creek at Cobbadah 18.5 km north of Barraba.

Yallaroi Shire Council continued reconstruction 23.6 km to 24.6 km north of Bingara.

Yallorai Shire Council completed reconstruction and bituminous surfacing 45.06 km to 49.25 km north of Warialda.

Ashford Shire Council completed reconstruction and bituminous surfacing 59.4 km to 60.9 km north of Warialda (approaches to new bridge over Unnamed Creek at Rocky Dam).

#### **TR65 — Ewingsdale-Lismore**

Byron Shire Council commenced reconstruction 27.6 km to 31.6 km north of Lismore.

#### **TR66 — Menindee Road**

Reconstruction and widening of the formation to 10.4 m, with improvement to a level crossing, 3.9 km to 4.1 km east of Broken Hill was completed.

#### **TR67 — Ivanhoe-Swan Hill**

Bairnald Shire Council completed reconstruction and bituminous surfacing 39.0 km to 42.0 km north of Bairnald.

#### **TR68 — Wentworth-Queensland Border near Mungindi**

Wentworth Shire Council continued reconstruction and bituminous surfacing 78.3 km to 83.5 km north of Wentworth.

Bourke Shire Council completed reconstruction and bituminous surfacing 6.0 km to 7.5 km east of Bourke.

#### **TR70 — Coolabah-Queensland Border near Hebel**

Bogan Shire Council commenced reconstruction 16.0 km to 26.7 km north of Coolabah.

Brewarrina Shire Council continued reconstruction 26.2 km to 34.3 km north of Brewarrina.

#### **TR72 — Willow Tree-Narrabri**

Tamarang Shire Council continued reconstruction 13.7 km to 15.25 km north of Quirindi, including the approaches to the new bridge over Quipolly Creek at 14.6 km.

Liverpool Plains Shire Council completed construction of a concrete causeway at Watermark, 29.77 km south of Gunnedah.

#### **TR73 — Inverell-Walcha**

Inverell Municipal Council completed reconstruction and bituminous surfacing 2.77 km to 3.88 km south of Inverell.

Guyra Shire Council continued reconstruction and bituminous surfacing 19.0 km to 23.8 km south of Inverell.

#### **TR74 — Armidale-Grafton**

Armidale City Council commenced reconstruction between Douglas and Chappel Streets.

Dumaresq Shire Council continued reconstruction 76.2 km to 78.0 km east of Armidale and commenced reconstruction 79.9 km to 82.3 km east of Armidale.

Nymboida Shire Council commenced reconstruction and bituminous surfacing 104.6 km to 105.8 km south of Grafton.

Grafton City Council commenced reconstruction 4.1 km to 4.4 km south of Grafton.

#### **TR75 — Wollomombi-Kempsey**

Kempsey Shire Council continued reconstruction 55.0 km to 56.8 km west of Kempsey.

Kempsey Shire Council completed construction of a deviation in approach to a new bridge over Hickeys Creek at Willawarrin 28.4 km to 30.1 km west of Kempsey.

#### **TR76 — Raleigh-TR74 near Ebor**

Bellingen Shire Council commenced reconstruction and bituminous surfacing 18.1 km to 19.27 km west of Bellingen.

#### **TR77 — Gilgandra-TR55 near Craboon**

Gilgandra Shire Council continued reconstruction and bituminous surfacing 34.1 km to 37.6 km east of Gilgandra.

Coolah Shire Council completed construction and bituminous surfacing of the approaches to the new bridge over Merrygoen Creek at Mendooran.

#### **TR78 — Cowra-SH2 near Ettamogah**

Waugoola Shire Council completed reconstruction and bituminous surfacing 3.1 km to 3.9 km south of Cowra.

Burrangong Shire Council completed pavement strengthening and widening 31.63 km to 32.63 km north of Young.

Cootamundra Shire Council completed reconstruction and pavement widening 6.45 km to 7.0 km south of Cootamundra.

Junee Municipal Council completed reconstruction and bituminous surfacing 1.4 km to 2.8 km west of Junee.

Mitchell Shire Council completed reconstruction and bituminous surfacing 14.2 km to 15.9 km north of Wagga Wagga.

Lockhart Shire Council commenced reconstruction 47.8 km to 50.5 km south of Wagga Wagga.

Culcairn Shire Council commenced reconstruction and bituminous surfacing 1.0 km to 2.5 km south from Culcairn.

Hume Shire Council completed reconstruction and bituminous surfacing 10.6 km to 12.75 km north of Albury.

#### **TR80 — Narrandera-Mossgiel**

Narrandera Shire Council continued reconstruction and bituminous surfacing 0.7 km to 1.6 km west of Narrandera.

Narrandera Shire Council completed reconstruction and bituminous surfacing 4.0 km to 5.0 km west of Narrandera.

Leeton Shire Council commenced reconstruction and bituminous surfacing 11.5 km to 13.2 km east of Leeton.

Leeton Shire Council commenced reconstruction and bituminous surfacing 7.4 km to 11.5 km east of Leeton.

Wade Shire Council completed reconstruction and bituminous surfacing 9.9 km to 12.1 km east of Griffith.

#### **TR82 — Newcastle-Jesmond**

Newcastle City Council completed reconstruction and widening 4.36 km to 5.26 km from SH10 and commenced construction of dual carriageways between Lawson and Samdon Streets, Hamilton.

#### **TR83 — South Grafton-SH24 near Woodenbong**

Richmond River Shire Council completed reconstruction 95.4 km to 92.6 km north of Grafton.

Kyogle Shire Council completed reconstruction 4.8 km to 7.2 km north of Kyogle.

Kyogle Shire Council commenced reconstruction and deviation 35.5 km to 38.7 km north of Kyogle.

#### **TR84 — Bowning-Temora**

Harden Shire Council completed reconstruction work between 7.7 km and 9.5 km west of Harden.



**TR85 — Gilmore-Jingellie**

Tumut Shire Council completed reconstruction and bituminous surfacing 26.8 km to 31.9 km south of Tumut.

Tumbarumba Shire Council commenced reconstruction 17.7 km to 20.7 km south of Tumbarumba.

**TR86 — Riverina Highway-Corowa**

Corowa Shire Council completed reconstruction and bituminous surfacing 0 km to 3.0 km south of Riverina Highway towards Corowa.

**TR90 — SH10 near Karuah-Purfleet**

Great Lakes Shire Council continued construction of the approaches to the bridge over Camerons Creek 15.92 km to 16.92 km from SH10 towards Gloucester and continued reconstruction of failed sections north of Stroud Road, 39.18 km to 60.24 km south of Taree.

Manning Shire Council completed reconstruction of pavement 69.16 km to 71.96 km north of Gloucester.

**TR91 — SH1 near Pambula-Bombala**

Imlay Shire Council completed gravelling and sealing 31.8 km to 42.15 km west of Pambula.

Bibbenluke Shire Council continued reconstruction 22.65 km to 25.65 km east of Bombala and commenced reconstruction 25.65 km to 27.18 km east of Bombala.

**TR92 — Braidwood-Tomerong**

Tallaganda Shire Council commenced reconstruction and bituminous surfacing 50.0 km to 52.4 km north of Braidwood.

**TR93 — SH19 near Bombala-Victorian Border**

Bibbenluke Shire Council completed gravelling and sealing 17.07 km to 34.3 km south of Bombala.

**TR95 — Mt. Ousley Road**

Reconstruction was continued to provide four lanes on a 5.5 km length from the junction with MR513 and The Link Road to the Southern Freeway (F6) at Gwynneville.

**TR95 — Kelra Road**

Strengthening and widening of the pavement and formation between 18.1 km and 23.9 km from Wollongong was completed.

Work is proceeding on a deviation for the new Maldon Bridge over the Nepean River between 35.0 km and 44.5 km from Wollongong. The deviation will provide a much improved alignment and grading and includes an interchange with South Western Freeway (F5).

**MAIN ROADS****MR105 — Scone-Nemingha**

Nundle Shire Council completed the first stage of a deviation 41.2 km to 43.6 km south of Tamworth to avoid Chaffey Dam (currently under construction), and commenced work on the section 43.6 km to 46.22 km.

**MR106 — Nundle-SH9 near Wallabadah**

Nundle Shire Council commenced work on construction of the approaches to a new bridge over Nundle Creek at 2.98 km and continued reconstruction and bituminous surfacing of the section 28.5 km to 30.5 km west of Nundle.

**MR108 — Newcastle-Nelson Bay**

Port Stephens Shire Council commenced reconstruction and bituminous surfacing 55.3 km to 56.2 km north of Newcastle, near Gan Gan Camp.

**MR118 — Macksville-Bellingen**

Nambucca Shire Council commenced reconstruction and bituminous surfacing 18.0 km to 19.8 km west of Macksville.

**MR124 — Armidale-Yarrowyck**

Uralla Shire Council commenced reconstruction 9.8 km to 11.75 km west of Armidale.

**MR127 — Narrabri-Wee Waa-Walgett**

Namoi Shire Council completed reconstruction 8.6 km to 12.18 km west of Wee Waa and also completed construction of an 18 cell 2.5 m x 1.6 m reinforced concrete box culvert at 7.68 km west of Wee Waa.

**MR128 — Singleton-Gresford-Gostwyck**

Singleton Shire Council completed reconstruction and bituminous surfacing 15.2 km to 16.77 km east of Singleton.

**MR129 — Quirindi-Coonabarabran-Coonamble**

Tamarrang Shire Council completed reconstruction between 51.5 km and 57.0 km west of Quirindi.

**MR132 — Barraba-Bundarra**

Barraba Shire Council continued construction 17.9 km to 19.9 km east of Barraba.

**MR134 — Bingara-Ashford**

Bingara Shire Council completed construction and bituminous surfacing between 17.82 km and 20.0 km north-east of Bingara and continued with construction and bituminous surfacing between 20.0 km and 23.98 km.

**MR135 — Ebor-TR73 at Gligal**

Guyra Shire Council completed reconstruction and bituminous surfacing between 31.2 km and 32.7 km west of Guyra.

Macintyre Shire Council continued reconstruction and bituminous surfacing between 40.23 km and 43.45 km east of Inverell.

**MR136 — Inverell-Deepwater**

Macintyre Shire Council completed reconstruction and priming between 12.13 km and 16.9 km north of Inverell.

Severn Shire Council completed reconstruction between 29.62 km and 38.64 km west of Deepwater to running course gravel.

**MR137 — Inverell-Bonshaw**

Ashford Shire Council continued reconstruction and bituminous surfacing between 17.16 km and 19.47 km north of Ashford.

Ashford Shire Council completed reconstruction and bituminous surfacing between 31.0 km and 33.0 km north of Ashford.

Ashford Shire Council commenced reconstruction and bituminous surfacing between 34.7 km and 36.3 km (intersection with SH16) north of Ashford.

**MR142 — Lismore-Nimbin-Murwillumbah**

Tweed Shire Council commenced reconstruction between 29.4 km and 30.6 km west of Murwillumbah.

**MR150 — TR83 near Koolkhan-SH16 near Sandilands**

Copmanhurst Shire Council continued reconstruction between 70.8 km and 75.3 km north of Grafton.

**MR151 — Coffs Harbour-Glenreagh-Grafton**

Coffs Harbour Shire Council completed reconstruction and bituminous surfacing 64.2 km to 65.4 km south of Grafton.

**MR152 — MR151 at Lawrence-SH10 near Edwards Creek**

Maclean Shire Council commenced reconstruction and bituminous surfacing 1.46 km to 2.0 km west of Harwood Bridge.



**MR181 — McGraths Hill-Singleton**

Colo Shire Council continued reconstruction and bituminous surfacing between 1.6 km and 4.4 km north of Webbs Creek.

Greater Cessnock City Council commenced reconstruction and bituminous surfacing 6.5 km to 7.5 km south of Wollombi.

**MR186 — West Wollongong-TR95 between Brokers Nose and Wilton**

Wollongong City Council continued reconstruction between Kembla Street and Mt. Keira School.

**MR192 — Wingham-Taree**

Wingham Municipal Council completed reconstruction of the intersection of MR192 and MR112 at Wingham.

**MR206 — Dubbo-Dunedoo**

Talbragar Shire Council completed construction of approaches to Plain Creek Bridge 20.4 km to 21.9 km east of Dubbo and commenced work on pavement strengthening and widening from 14.5 km to 16.5 km east of Dubbo.

**MR211 — Wagga Wagga-Holbrook**

Kyeamba Shire Council commenced reconstruction and bituminous surfacing 11.8 km to 14.1 km south of Wagga Wagga.

**MR213 — MR503 near Singleton — MR209 near Denman**

Denman Shire Council commenced reconstruction and bituminous surfacing 48.33 km to 50.35 km west of Singleton.

**MR217 — Wyong-Morisset**

Lake Macquarie Municipal Council completed widening, strengthening and bituminous resurfacing 18.06 km to 24.66 km north of Wyong.

**MR220 — Glendon Brook-Branxton-Cessnock-Toronto**

Greater Cessnock City Council completed widening, strengthening and bituminous resurfacing 25.6 km to 32.3 km north of Toronto and completed the first stage of reconstruction and temporary bitumen seal 14.5 km to 15.2 km north of Toronto.

**MR225 — Wisemans Ferry-Gosford**

Gosford Shire Council continued the reconstruction prior to bituminous surfacing of the section 35.7 km to 40.6 km west of Gosford.

**MR234 — Molong-Trewilga**

Cabonne Shire Council commenced reconstruction and bituminous surfacing 28.8 km to 31.6 km west of Molong.

**MR238 — Canowindra-Parkes**

Goobang Shire Council commenced reconstruction and bituminous surfacing between Muginoble and Jemalong Shire Boundary 6.8 km to 12.6 km south of Parkes.

**MR241 — Temora-Gunning**

Burrangong Shire Council completed reconstruction and bituminous surfacing 10.96 km to 14 km east of Young.

Young Municipal Council completed reconstruction and asphaltic concrete surfacing of Boorowa Street, Young, between Clarke Street and Thornhill Street, a distance of 0.25 km.

**MR244 — SH6 near Goolgowi-SH14 near Carrathool**

Carrathool Shire Council completed reconstruction and bituminous surfacing between 0 km and 3.0 km south of SH6.

**MR246 — Georges Plain-Arthur**

Blayney Shire Council continued reconstruction and bituminous surfacing 22.0 km to 27.8 km west of Bathurst.

**MR248 — Taraiga-Boorowa**

Crookwell Shire Council commenced reconstruction and bituminous surfacing 14.6 km to 16.9 km west of Crookwell.

Boorowa Shire Council commenced construction of the approaches to the new bridge being built over Gunnary Creek, 16.5 km east of Boorowa.

**MR256 — Goulburn-Oberon**

Goulburn City Council commenced reconstruction and sealing 4.5 km to 5.10 km north of Goulburn.

Oberon Shire Council continued reconstruction and bituminous surfacing 39.5 km to 42.0 km south of Oberon.

**MR260 — Moss Vale-Mittagong**

Mittagong Shire Council completed reconstruction of the junction with Old Bowral Road and continued work to provide a climbing lane 0.92 km to 2.3 km from SH2.

**MR263 — Bowral-Fitzroy Falls**

Wingecaribee Shire Council commenced reconstruction and bituminous surfacing 38.6 km to 41.8 km south of Bowral.

**MR264 — Robertson-Kiama**

Kiama Municipal Council commenced reconstruction between 5.58 km and 8.45 km from the Wingecaribee Shire boundary.

**MR265 — MR263 near Sheepwash Bridge-MR261 near Fitzroy Falls**

Wingecaribee Shire Council completed construction of a reinforced concrete box culvert at Kelly Creek.

**MR267 — Tomerong-Huskisson**

Shoalhaven Shire Council continued reconstruction and bituminous surfacing between 6.12 km and 7.7 km from SH1.

**MR268 — Tarago-Bungendore**

Mulwaree Shire Council commenced reconstruction and bituminous surfacing 4.35 km to 5.10 km south of Tarago.

Yarrowlumla Shire Council continued reconstruction work 31.89 km to 34.56 km north of Queanbeyan including the approaches to the new bridge over Deep Creek at 33.8 km.

**MR272 — Tilba-Bega**

Mumbulla Shire Council continued construction of the deviation 2.5 km to 7.5 km north of Bermagui.

**MR278 — Yass-Tumut**

Goodradigbee Shire Council completed reconstruction and bituminous surfacing 15.95 km to 18.55 km south of Yass.

Gundagai Shire Council commenced reconstruction and bituminous surfacing 10.3 km to 11.8 km south of Gundagai.

**MR282 — Tumbarumba-Hume Highway**

Tumbarumba Shire Council completed reconstruction and bituminous surfacing 31.9 km to 36.1 km south of Tumbarumba.

**MR284 — Hume Highway-Tumbarumba**

Holbrook Shire Council continued reconstruction and bituminous surfacing 0.75 km to 5.30 km east of the Hume Highway.

**MR289 — Dingadee-TR90**

Dungog Shire Council completed reconstruction and bituminous surfacing 3.28 km to 4.6 km east of MR101.

**MR301 — Clarencetown-Wiragula**

Dungog Shire Council commenced reconstruction and bituminous sealing from 1.5 km to 2.1 km north of Clarencetown.



**MR319 — Barham-Maude**

Wakool Shire Council continued work on the approaches to the new bridge over Barber Creek at 8.05 km north of Barham.

Windouran Shire Council commenced reconstruction and bituminous surfacing from 22.3 km to 28.3 km north of Moulamein.

**MR320 — Cobargo-Bermagui Wharf**

Mumbulla Shire Council completed construction between 0.8 km and 2.5 km east of Cobargo forming the approaches to the new bridge over Narira Creek.

**MR321 — Newell Highway north of Jerilderie-Mid Western Highway, west of Rankin Springs**

Murrumbidgee Shire Council continued work on the approaches to the new bridge over the Murrumbidgee River at Darlington Point 89 km north of SH17.

Wade Shire Council completed reconstruction and bituminous surfacing 12.5 km to 13.4 km south of Griffith.

Wade Shire Council commenced reconstruction and bituminous surfacing 1.2 km to 3.5 km north from TR80 towards Rankin Springs.

**MR323 — Jerilderie-MR131 south of Urana**

Urana Shire Council continued reconstruction and bituminous surfacing 23.0 km to 33.6 km west of MR131.

**MR331 — Berrigan-TR85 north of Jingellic**

Corowa Shire Council completed reconstruction and bituminous sealing 12.9 km to 14.5 km east of Daysdale.

**MR335 — Tuggerah-The Entrance**

Wyong Shire Council completed the first stage (west-bound carriageway) of 1 km of reconstruction through Killamey Vale Shopping Centre from Killamey Street to Norton Street, Killamey Vale.

**MR341 — Moama-Barham**

Murray Shire Council continued reconstruction and bituminous surfacing 70.5 km to 74.2 km west of Moama.

**MR347 — Melrose-Collie**

Warren Shire Council completed reconstruction of the section 6.43 km to 9.1 km south of Collie.

**MR349 — Gosford-Patonga**

Gosford Shire Council commenced construction of the approaches to the new bridge over Coorumbine Creek.

**MR354 — Tullamore-Narromine**

Timbregongie Shire Council commenced reconstruction and bituminous surfacing 21.2 km to 28.9 km south of Narromine.

**MR357 — Manilla-Boggabri**

Manilla Shire Council continued reconstruction of the section 12.84 km to 16.5 km west of Manilla.

**MR358 — Willow Tree-Merriwa**

Murrumbidgee Shire Council commenced preliminary work on the section 25.7 km to 27.0 km south of Willow Tree.

Merriwa Shire Council continued reconstruction of a deviation from 9.98 km to 12.07 km north of Merriwa.

**MR360 — Cobbadah-MR133 at Caroda Junction**

Barraba Shire Council commenced construction of approaches to a proposed new structure over Ti-Tree Creek at 17.7 km west of Cobbadah.

**MR363 — MR550 north of Barooga-Berrigan**

Berrigan Shire Council completed reconstruction and bituminous surfacing of the section 8.0 km to 10.5 km north of MR550.

**MR371 — Rankin Springs-Lake Cargelligo**

Bland Shire Council commenced reconstruction and bituminous surfacing 10.8 km to 18.42 km north of SH6 at Rankin Springs.

Lachlan Shire Council completed reconstruction and bituminous sealing 2.22 km to 4.74 km from Lake Cargelligo to Rankin Springs.

**MR377 — Boree-Condobolin**

Cabonne Shire Council commenced reconstruction and bituminous surfacing between 53.1 km and 61.1 km west of Orange.

Jemalong Shire Council completed construction of a 3.68 m x 3.68 m reinforced concrete box culvert at 12.7 km and approaches 11.2 km to 13.4 km west of Forbes.

**MR383 — Coonamble-Pilliga**

Coonamble Shire Council continued reconstruction between 16 km and 21 km north of Coonamble.

**MR386 — TR67-MR319 near Moulamein**

Wakool Shire Council commenced reconstruction and bituminous surfacing 34.0 km to 36.0 km west of MR319 and completed reconstruction and bituminous surfacing 36.22 km to 39.0 km west of MR319.

**MR387 — Griffith-Temora**

Narraburra Shire Council widened and reconstructed the section 40.0 km to 43.5 km west of Temora.

**MR396 — Coolah-Coonabarabran**

Coonabarabran Shire Council completed construction of the approaches to Merryula Creek Bridge and the section 24.9 km to 25.3 km north of Binnaway.

**MR398 — Grenfell-MR240 near Dullah**

Weddin Shire Council completed reconstruction and sealing 43.5 km to 44.3 km south of Grenfell and continued reconstruction and sealing 44.3 km to 46.5 km south of Grenfell.

Narraburra Shire Council completed reconstruction and bituminous surfacing 19.0 km to 23.8 km south of Ariah Park.

Coolamon Shire Council continued reconstruction and bituminous surfacing 29.2 km to 33.0 km north from Coolamon.

**MR405 — North Bourke-South Australian Border at Hawker Gate**

Bourke Shire Council continued construction of the approaches to new bridges on the Paroo River 190 km west of Bourke.

**MR411 — Euabalong-Mt. Hope**

Cobar Shire Council completed reconstruction and sealing 0.15 km to 2.0 km from Euabalong.

**MR421 — Cobar-Bourke**

Cobar Shire Council completed reconstruction and bituminous surfacing 7.0 km to 19.2 km north of Cobar.

**MR426 — Castlereagh Highway-Lightning Ridge**

Walgett Shire Council completed the construction and sealing of the new route of MR426.

**MR429 — Wilcannia-Hungerford**

Central Darling Shire Council commenced reconstruction and bituminous surfacing 0.8 km to 4.9 km north of Wilcannia.



**MR503 — Putty Road**

Construction of the approaches to the new bridge over Howes Creek between 10.9 km and 11.7 km north of Windsor, was completed.

Construction of a reinforced concrete box culvert and approaches was commenced at Old Darkey Creek.

Singleton Shire Council completed reconstruction and bituminous surfacing 21.69 km to 23.56 km south of Singleton.

Pavement strengthening and resheeting with asphaltic concrete 36.8 km to 63.8 km south of Singleton was commenced.

**MR504 — MR336 at Moirs Comer-Avoca Beach**

Gosford Shire Council completed construction of the section 0 km to 1.0 km towards Kincumber.

Gosford Shire Council commenced construction of the section 1.0 km to 2.6 km towards Kincumber.

**MR513 — Mount Ousley Road**

Construction to provide four lanes between Bellambi Creek and the junction with TR95 including a deviation at Cataract Creek was continued.

**MR514 — Hay-Penarie**

Hay Shire Council continued reconstruction 68.8 km to 73.0 km west of Hay.

Bairnald Shire Council commenced reconstruction and bituminous surfacing 0 km to 2.0 km east of TR67.

**MR516 — Chifley Road**

Replacement of cable fencing with chain wire fencing was completed.

**MR522 — Shellharbour-Port Kembla**

Shellharbour Municipal Council completed work on extension of dual carriageways to by-pass Shellharbour 12.8 km to 14.1 km south of Wollongong.

**MR533 — Macksville-Tailors Arm**

Nambucca Shire Council completed reconstruction and bituminous surfacing 22.1 km to 23.2 km west of Macksville.

**MR544 — Cedar Point-Lismore**

Lismore City Council continued reconstruction between 10 km and 12 km west of Lismore.

**MR552 — SH21 at Deniliquin-SH17 at Jerilderie**

Deniliquin Municipal Council commenced reconstruction and bituminous sealing 2.21 km to 2.96 km north of Deniliquin.

Conargo Shire Council completed reconstruction of the approaches to a widened Irrigation Crossing at 17.6 km north of Deniliquin and continued reconstruction 18.0 km to 20.8 km north of Deniliquin.

Jerilderie Shire Council continued reconstruction 0 km to 2.5 km west of Jerilderie.

**MR565 — Belinfante-Guntawang**

Mudgee Shire Council continued reconstruction and bituminous surfacing 1.0 km to 5.8 km south of MR233 at Guntawang.

**MR568 — Wollongong-MR295 west of Cringila**

Wollongong City Council completed reconstruction of the southbound carriageway to raised levels between MR602 and Allens Creek.

**MR572 — Narramine-Eumungerie**

Talbragar Shire Council completed reconstruction and bituminous surfacing 12.4 km to 20.0 km west of SH17 at Eumungerie.

**MR573 — Orange-Wellington**

Orange City Council commenced preliminary works on pavement strengthening 2.2 km to 3.2 km from Orange.

Wellington Shire Council continued construction of the approaches to Stoney Creek Bridge 55.55 km to 56.8 km north of Orange and also continued reconstruction and sealing 56.8 km to 59.7 km north of Orange.

**MR600 — Port Macquarie-Dennis Bridge**

Hastings Shire Council completed construction of the approaches to a new bridge over Fernbank Creek 2.1 km to 2.8 km from SH10.

**MR602 — Figtree-MR568**

Wollongong City Council continued work on the eastern approach to the new railway overbridge on Masters Road.

**DEVELOPMENTAL ROADS****DR1268 — Jinden Creek-Kybeyan River Bridge**

Monaro Shire Council completed widening formation over the lengths 1.5 km to 4.5 km north of Badja River, and 2.5 km to 13.0 km south of Badja River.

Tallaganda Shire Council commenced work to modify the existing road between 65.9 km and 66.6 km south of Braidwood.

**DR3223**

Cabonne Shire Council completed reconstruction of the section 3.1 km to 4.6 km from the Macquarie River at Dixons Long Point.

**TOURIST ROADS****Tourist Road 4049 — North of Woolli**

Ulmarra Shire Council completed reconstruction between 3.6 km and 4.23 km from Woolli Road.

**Tourist Road 4051 — East Ballina-Lennox Head**

Ballina Shire Council continued construction of a deviation 3.0 km to 4.8 km north of SH10.



# BRIDGE CONSTRUCTION

During the year 47 bridges, eight bridge size box culverts (i.e. box culverts with a waterway width of up to six m) and three pedestrian structures were made available to traffic. In addition nine structures were widened, three of which were widened for extra lanes, and one bridge was reconstructed by replacing the timber piers in concrete construction.

The 68 bridgeworks of various types which were completed and opened to traffic during 1977-78, are situated on roads of various classifications as set out in Table 1.

At the end of the year 26 bridges, 16 bridge size box culverts and the widening of four structures (two of which were widened for extra lanes) were completed but not opened to traffic and are situated on roads of various classifications as set out in Table 2.

Also at the end of the year 63 bridges, 10 bridge size box culverts, one tunnel and the widening of nine structures (five of which are being widened for extra lanes), were in progress and are situated on roads of various classifications as set out in Table 3.

Table 1

	Bridges	Bridge Size Box Culverts	Pedestrian Structures	Widenings		Reconstruction	Total
				Extra Lanes	No Extra Lanes		
Freeways .....	4	—	2	—	—	—	6
State Highways .....	19	1	1	2	6	—	29
Trunk Roads .....	7	3	—	—	—	—	10
Main Roads .....	15	3	—	1	—	1	20
Developmental Roads, Developmental Works and Unclassified Roads .....	2	1	—	—	—	—	3
Total .....	47	8	3	3	6	1	68

Table 2

	Bridges	Bridge Size Box Culverts	Widenings		Total
			Extra Lanes	No Extra Lanes	
Freeways .....	16	1	—	—	17
State Highways .....	4	11	1	2	18
Trunk Roads .....	1	2	—	—	3
Main Roads .....	3	2	1	—	6
County Roads .....	2	—	—	—	2
Total .....	26	16	2	2	46

Table 3

	Bridges	Bridge Size Box Culverts	Widenings		Tunnel	Total
			Extra Lanes	No Extra Lanes		
Freeways .....	19	3	—	—	—	22
State Highways .....	17	3	4	4	—	28
Trunk Roads .....	2	1	—	—	—	3
Main Roads .....	21	3	1	—	1	26
Developmental Roads, Developmental Works and Unclassified Roads .....	2	—	—	—	—	2
County Roads .....	2	—	—	—	—	2
Total .....	63	10	5	4	1	83

## PRINCIPAL BRIDGEWORKS COMPLETED DURING THE YEAR AND OPENED TO TRAFFIC

### F1 — Warringah Freeway at West Street

The Department completed construction by contract of a two span prestressed concrete girder bridge over the Warringah Freeway at West Street, North Sydney. The new structure is 58 m long and provides two traffic lanes and two footways.

### F4 — Western Freeway over Haslams Creek

The Department completed construction by contract of a two span steel truss services bridge over Haslams Creek Stormwater Channel. The new structure is 68.3 m long and carries public utilities.

### F4 — Western Freeway-Melton Street Pedestrian Bridge

The Department completed construction by its own forces of an 11 span prestressed concrete suspended girder (main spans) and prestressed concrete slab (approach slabs) pedestrian bridge over the Freeway at Melton Street, Auburn. The new structure is 117.9 m long and provides a single lane walkway.



#### **F5 — South Western Freeway at Minto Road**

The Department completed construction by its own forces of a four span prestressed concrete bridge over the Freeway at Minto Road, Glenlee. The new bridge is 80 m long and provides two traffic lanes.

#### **SH2 — Hume Highway over Derringuilen Creek**

The Department completed construction by contract of a three span prestressed concrete girder bridge over Derringuilen Creek, 6.6 km south of Yass. The new structure is 57.9 m long and provides two traffic lanes for north-bound traffic on a section of dual carriageway.

#### **SH2 — Hume Highway over Fish River**

The Department completed construction by contract of a four span prestressed concrete girder bridge over the Fish River, 45.1 km west of Goulburn. The new structure is 85.3 m long and provides two traffic lanes and replaces a timber beam bridge 75.2 m long.

#### **SH2 — Hume Highway over Yass River at Yass**

The Department completed construction by contract of a three span composite steel trough girder bridge over the Yass River (Hume Bridge) at Yass. The new structure is 101.1 m long and provides two traffic lanes and two footways and replaces a timber and steel bridge 86 m long.

#### **SH2 — Hume Highway at Narellan Interchange (North-bound Carriageway)**

The Department completed construction by its own forces of a three span prestressed concrete girder bridge for northbound traffic over MR178 at Narellan. The new structure is 46.6 m long and provides three traffic lanes and is on a deviation of the highway.

#### **SH8 — Barrier Highway over Darling River Flood Plain**

The Department completed construction by contract of four prestressed concrete bridges over the Darling River Flood Plain at 1.6 km, 3.7 km, 5.9 km and 6.4 km east of Wilcannia, having five, four, eight and eight spans respectively. The new structures are 30.5 m, 24.4 m, 48.8 m and 48.8 m long respectively, provide two traffic lanes and replace causeways.

#### **SH17 — Newell Highway over Narrabri Creek**

The Department completed construction by contract of a nine span prestressed concrete girder bridge over Narrabri Creek at Narrabri. The new structure is 179.8 m long, and provides two traffic lanes and replaces a timber truss bridge 120 m long.

#### **TR72 over Quipolly Creek**

Tamarang Shire Council completed construction by contract of a five span prestressed concrete girder bridge over Quipolly Creek, 14.7 km north of Quirindi. The new structure is 75 m long and provides two traffic lanes and replaces a timber beam bridge 23.8 m long.

#### **TR75 over Hickeys Creek**

Kempsey Shire Council completed construction by contract of a three span prestressed concrete girder bridge over Hickeys Creek, 31.8 km west of Kempsey. The new structure is 64 m long and provides two traffic lanes and replaces a one lane timber bridge, 43.3 m long which was subject to flooding.

#### **TR77 over Merrygoen Creek**

Coolah Shire Council completed construction by contract of a three span steel beam and reinforced concrete bridge over Merrygoen Creek at Mendooran. The new structure is 64.6 m long, and provides two traffic lanes and replaces a timber beam bridge 40 m long.

#### **MR154 over Narellan Creek**

Camden Municipal Council completed construction by contract of a four span prestressed concrete plank bridge over Narellan Creek, 1.6 km from SH2. The new structure is 42.9 m long and provides two traffic lanes and replaces an old timber bridge, 8.2 m long.

#### **MR190 over Joseph Street**

The Public Transport Commission (Railways) completed construction by its own organisation of a three span steel girder bridge to carry the railway over Joseph Street, Udcombe which is being reconstructed to provide improved carriageway widths to meet the traffic needs. The new structure is 53 m long and provides two rail lines and replaces a single span steel girder bridge 10 m long.

#### **MR405 over Paroo Bywashes Nos 1 and 2**

The Department completed construction by contract of two composite steel girder and reinforced concrete bridges over the Paroo Bywashes Nos 1 and 2 at Wanaaring. Each new bridge is 61 m long, has five spans and provides two traffic lanes. They replace two timber beam bridges 62 m and 55 m long respectively.

#### **MR600 over Fembank Creek**

Hastings Shire Council completed construction by its own forces of a seven span prestressed concrete girder bridge over Fembank Creek, 8 km north of Port Macquarie. The new structure is 75.5 m long, provides two traffic lanes and replaces a timber beam bridge 18.3 m long.

#### **SR2081 at Rutledge Street**

The Department completed construction by contract of a three span prestressed concrete plank bridge over the Railway at Rutledge Street, Eastwood. The new structure is 42.8 m long, provides six traffic lanes and replaces a three span steel girder bridge 24 m in length.

### **PRINCIPAL BRIDGEWORKS COMPLETED DURING THE YEAR BUT NOT OPENED TO TRAFFIC**

#### **P1 — Warringah Freeway over Brook Street**

The Department completed construction by contract of twin single span prestressed concrete girder bridges over Brook Street, Naremburn. Each new structure is 27 m long and provides four traffic lanes.

#### **F5 — Southern Freeway over Mullet Creek**

The Department completed construction by contract of twin 10 span prestressed concrete voided slab deck bridges over Mullet Creek at Kembla Grange — 91.4 km south of Sydney. Each new structure is 250 m long and provides three traffic lanes.

#### **F5 — Southern Freeway over Northcliffe Drive**

The Department completed construction by contract of twin three span prestressed concrete voided slab deck bridges over Northcliffe Drive at Berkeley. Each new structure is 67.2 m long and provides three traffic lanes.

#### **F5 — Southern Freeway over Access Road to Heme Estate**

The Department completed construction by contract of twin three span prestressed concrete plank bridges to carry loading ramps to and from the Southern Freeway over the access road from Gladstone Avenue to Heme Estate, Wollongong. The new structures are 30.6 m and 30.4 m long and each provides three traffic lanes.



## **SH2 — over Eastbound Off-loading Ramp**

The Department completed construction by contract of a single span prestressed concrete plank structure over eastbound off-loading ramp to Sheridan Street, Gundagai. The new structure is on a deviation of the highway and is 75.4 m long and provides two traffic lanes.

## **SH16 — Bruxner Highway over Seereys Creek**

Ashford Shire Council completed by contract the construction of a 12 span prestressed concrete plank bridge over Seereys Creek, 16.9 km west of Yetman. The new bridge is on a deviation of the highway and is 73.2 m long and provides two traffic lanes.

## **SH16 — Bruxner Highway over Otileys Creek**

Yallaroi Shire Council completed construction by contract of a 10 span prestressed concrete plank bridge over Otileys Creek, 17.7 km west of Yetman. The new structure is on a deviation of the highway and is 61 m long and provides two traffic lanes.

## **MR373 over Lane Cove Road (MR162)**

The Department completed construction by contract of a three span prestressed concrete girder bridge over Lane Cove Road at Epping Road at Ryde. The new structure is 101.8 m long and provides six lanes.

## **MR617 over the Main Southern Sewer**

The Department completed construction by its own forces of a single span rigid frame structure over the Southern Suburbs Sewer in General Holmes Drive, Botany. This section of the bridgework is 27.6 m long and will complement the northern section of the structure which will be 269.7 m long and is being constructed by the Department's own forces.

## **CR5037 — Parramatta By-pass over North Rocks Road**

The Department completed construction by its own forces of a three span reinforced and prestressed concrete bridge to carry the County Road over North Rocks Road, North Parramatta. The new structure is 35.5 m long and provides six traffic lanes.

## **CR5037 over Lake Parramatta Access Road**

The Department completed construction by contract of a single span reinforced concrete bridge to carry the County Road over the Lake Parramatta access road. The new bridge is 12.8 m long and provides six traffic lanes.

# **PRINCIPAL BRIDGEWORKS IN PROGRESS AT THE BEGINNING OF THE YEAR BUT NOT COMPLETED**

## **F3 — North Western Freeway over Darling Harbour Goods Yard**

The Department continued construction by its own forces of the first stage of a complex viaduct structure to carry the North Western Freeway from the City over Darling Harbour Goods Yard to Pyrmont. The first stage will replace the Pyrmont Bridge and will comprise 55 spans of mainly composite steel and concrete with some reinforced concrete and prestressed concrete. The Department commenced fabrication by contract during the year of a number of steel girders. The main structure will be 982 m long and will provide for four lanes of traffic.

## **F4 — Western Freeway over Haslams Creek Stormwater Channel**

The Department continued construction by its own forces of a three span prestressed concrete girder bridge to carry eastbound freeway traffic over Haslams Creek Stormwater Channel. The new structure will be 69.5 m long and will provide two traffic lanes.

## **F5 — South Western Freeway over Nepean River, Douglas Park**

The Department continued construction by contract of twin six span precast and post tensioned concrete box girder bridges over the Nepean River at Douglas Park, 70.4 km south of Sydney. The new bridges will be 236.5 m and 286 m long respectively and will provide six traffic lanes.

## **F5 — South Western Freeway over Nepean River, Menangle**

The Department continued construction by contract of a twin four span prestressed concrete box girder bridge over the Nepean River near Menangle, 61.3 km south of Sydney. Each new structure will be 186 m long and will provide three lanes for traffic.

## **F5 — South Western Freeway at Moreton Park**

The Department continued construction by contract of a four span prestressed concrete voided slab deck bridge over the freeway at Moreton Park, 63.9 km south of Sydney. The new structure will be 78 m long and will provide two traffic lanes and one footway.

## **F5 — South Western Freeway at Moreton Park Road**

The Department continued construction by its own forces of a four span prestressed concrete spine beam bridge over the freeway at Moreton Park Road, 69.17 km south of Sydney. The new structure will be 97.6 m long and will provide two traffic lanes and one footway.

## **F6 — Southern Freeway over Kanahooka Road**

The Department continued construction by contract of a three span prestressed concrete voided slab bridge over the freeway at Kanahooka Road at Dapto. The new structure will be 78.6 m long and will provide four traffic lanes.

## **SH7 — Mitchell Highway over Molong Creek**

The Department continued construction by contract of a four span steel girder and reinforced concrete bridge over Molong Creek, 5.6 km south of Molong. The new structure will be 61 m long, will provide two traffic lanes and will replace a timber beam bridge 40.5 m long.

## **MR172 — Viaduct between Vernon and Adelaide Streets**

The Department continued construction of an 18 span prestressed concrete viaduct at Bondi Junction. This work is being undertaken by both contract and direct control. The new structure will be 454.4 m long and will provide six traffic lanes.

## **MR321 over Murrumbidgee River**

The Department continued construction by contract of an 11 span prestressed concrete girder bridge over the Murrumbidgee River at Darlington Point. The new structure will be 207.5 m long, will provide two lanes and one footway and will replace a steel truss span with a lift span and timber beam approach span bridge 206 m long.

## **MR321 over Flood Channel to Murrumbidgee River**

The Department continued construction by contract of a seven span prestressed concrete girder bridge over the flood channel to the Murrumbidgee River at Darlington Point. The new structure will be 96 m long and will provide two traffic lanes and a footway, and will replace a timber beam bridge 96 m long.

## **MR609 over Railway at The Horsley Drive**

The Department continued widening by contract of the existing five span prestressed concrete girder bridge over the railway line in The Horsley Drive, Fairfield. The structure, when widened, will provide five traffic lanes and one footway.



#### **CR5037 (Parramatta By-Pass) at Pennant Hills Road**

The Department continued construction by its own forces of a single span steel girder and reinforced concrete bridge over the County Road at Pennant Hills Road near Burnside Homes, North Parramatta. The new structure will be 29.6 m long and will provide six traffic lanes.

### **PRINCIPAL BRIDGEWORKS COMMENCED DURING THE YEAR BUT NOT COMPLETED**

#### **F5 — South Western Freeway over Moolgun Creek**

The Department commenced construction by contract of twin five span prestressed concrete box girder bridges over Moolgun Creek, 73.7 km south of Sydney. The new structures will each be 235.9 m long and they will provide a total of six traffic lanes.

#### **F5 — South Western Freeway over Main Southern Railway Line**

The Department commenced construction by contract of twin three span prestressed concrete bridges over the Main Southern Railway Line at Glenlee, 56.7 km south of Sydney. The new structures will each be 84.4 m long and they will provide a total of six traffic lanes.

#### **F5 — South Western Freeway over Main Southern Railway and Onloading Ramp**

The Department commenced construction by contract of twin four span prestressed concrete bridges over the Main Southern Railway Line and Onloading Ramp at Yanderra, 102.6 km south of Sydney. The northbound bridge will be 73.2 m long and the southbound bridge will be 70.4 m long and they will provide a total of six traffic lanes.

#### **F5 — South Western Freeway at Mt. Keira Road**

The Department commenced construction by its own forces of a four span prestressed concrete bridge over the South Western Freeway at Mt. Keira Road, 71.2 km south of Sydney. The new structure will be 73.7 m long and will provide two traffic lanes.

#### **F5 — South Western Freeway over Nepean River**

The Department commenced construction by contract of twin three span prestressed concrete box girder bridges over the Nepean River at Pheasants Nest, 77.1 km south of Sydney. The new structures will each be 304.7 m long and they will provide a total of six traffic lanes.

#### **SH1 — Princes Highway over Shoalhaven River**

The Department commenced construction by contract of a 10 span prestressed concrete segmented box girder bridge over the Shoalhaven River at Nowra. The new bridge will be 360 m long, will provide two traffic lanes, a footway and is located on the future southbound carriageway of a dual carriageway section of the highway.

#### **SH14 — Sturt Highway over Kyeamba Creek**

The Department commenced construction by contract of two bridges over Kyeamba Creek and the adjoining flood plain, 14.0 km and 13.4 km east of Wagga Wagga. The new bridges will be 24 m and 210 m long respectively, will provide two traffic lanes and will replace a narrow timber beam bridge 18 m in length and will also eliminate a section of the highway subject to flooding.

#### **SH19 — Monaro Highway over Bredbo River**

The Department commenced construction by contract of a six span steel girder bridge over the Bredbo River at Bredbo. The new bridge will be 128.4 m long, will provide two traffic lanes and will replace a timber beam bridge 86 m long.

#### **TR55 over Bomera Creek**

Coonabarabran Shire Council commenced construction by contract of a five span prestressed concrete girder bridge over Bomera Creek, 49.7 km south of Coolah. The

new bridge will be 96.6 m long and will provide two traffic lanes and will replace a five span timber beam bridge 50 m long.

#### **TR95 over Nepean River**

The Department commenced construction by contract of a three span steel box girder structure over the Nepean River at Maldon. The new bridge will be 192.7 m long, will provide two traffic lanes, a footway and will replace an eight span bridge (seven timber beam spans and one steel lattice truss suspension span) 138.1 m long.

#### **MR194 — General Holmes Drive over Outfall Sewer Main Southbound Traffic**

The Department commenced construction by contract of a two span prestressed concrete beam bridge over the Outfall Sewer Main in General Holmes Drive, Botany. The new bridge will be 37.5 m long and will provide three traffic lanes.

#### **MR194 — General Holmes Drive over Foreshore Road Southbound Traffic**

The Department commenced construction by contract of a three span reinforced concrete voided slab deck bridge over Foreshore Road, Botany. The new bridge will be 50.7 m long and will provide three traffic lanes.

#### **MR194 — General Holmes Drive over Main Southern Sewer**

The Department commenced construction by its own forces of a single span prestressed concrete plank and reinforced concrete structure over the Main Southern Sewer in General Holmes Drive. This northern section of the bridgework is 269.7 m long and when completed will support the southbound lane of General Holmes Drive and the onloading ramp to Foreshore Road which provides access to the Botany Bay Port Development Project.

#### **MR616 over Bunnerong Outfall Canal**

The Department commenced construction by contract of a single span prestressed concrete girder bridge over the Bunnerong Outfall Canal, Bumborah Point Road, Botany. The structure will be 27.4 m long, providing four traffic lanes and will replace a 27 m long three span steel girder bridge.

#### **MR617 over Millpond Creek**

The Department commenced construction by contract of a four span prestressed concrete plank bridge over Millpond Creek. The new structure will be 40 m long, will provide six traffic lanes and is located on the access road to the Botany Bay Port Development Project.

#### **MR617 over the Sewer Main on Offloading Ramp**

The Department commenced construction by contract of two prestressed concrete plank bridges on the offloading ramp to Foreshore Road, Botany. Each bridge has two spans, the bridge over the northern sewer will be 19.1 m long and the bridge over the southern sewer will be 13.1 m long. Each bridge will provide two traffic lanes and will provide access to the Botany Bay Port Development Project.

#### **CR5037 over Darling Mills Creek**

The Department commenced construction by contract of a three span prestressed concrete girder bridge over Darling Mills Creek at Northmead. The new structure will be 40 m long and will provide six traffic lanes.

### **BRIDGES COMPLETED AND OPENED TO TRAFFIC ON UNCLASSIFIED URBAN AND RURAL LOCAL ROADS**

Bridgeworks completed on Urban and Rural Local Roads by Councils with grants made available under the Roads Grants Act consisted of 19 new bridges with a total length of 374.78 m and 25 replacement structures with a total length of 702.48 m (replacing 462.31 m).



# MAINTENANCE OF BRIDGES AND FERRIES

During the year the following major maintenance and repair works to bridges and ferries were carried out.

## FREEWAYS

### **F3 — Sydney to Newcastle Freeway over Hawkesbury River at Peats Ferry**

This bridge is 615 m long and has 12 steel girder spans. Repairs to the joints and preparation work prior to the painting of the light standards were carried out.

### **F4 — Western Distributor Viaduct between Toll Plaza and Day Street, Sydney**

This structure is 568.7 m long and has 19 concrete box girder spans. Provision for access to the internal boxes of the structure was completed by contract.

## STATE HIGHWAYS

### **SH1 — Princes Highway over Wagonga Inlet at Narooma**

This bridge is 132 m long and has two steel truss spans and one bascule span. Painting by contract of all steel surfaces was completed.

### **SH2 — Hume Highway — Prince Alfred Bridge over Murrumbidgee River at Gundagai**

This bridge is 927 m long and has 78 timber beam spans and three iron truss spans. Repairs to substructure, deck and truss spans regularly required each year were continued and truss repainting was continued.

### **SH5 — Great Western Highway — Denison Bridge over Macquarie River at Bathurst**

This bridge is 143.2 m long and has three steel truss spans and six timber beam approach spans. The underpinning of two piles and the provision of an auxiliary pier in the approach spans, tightening and replacement of deck bolts and damaged sheeting were completed.

### **SH5 — Great Western Highway over Knapsack Gully, 7.4 km west of Penrith**

This bridge is 118 m long and has seven masonry arch spans. Waterproofing and repairs to the asphaltic concrete overlay of the deck were completed.

### **SH6 — Mid-Western Highway over Lachlan River at Cowra**

This bridge is 319 m long and has 18 timber beam spans and three composite timber truss spans. Replacement of decking, sheeting, girders and capwales was carried out.

### **SH7 — Mitchell Highway over Polygonum Swamp, 5.6 km north of Bourke**

This bridge is 201 m long and has 20 timber beam spans. Splicing of one pile and repairs to the decking sheeting and abutment headstocks were carried out.

### **SH9 — New England Highway — Long Bridge over Flood Plain at Maitland**

This bridge is 267 m long and has 25 steel beam spans. Repainting of the steelwork, commenced in 1976-77, was completed.

### **SH9 — New England Highway over Bowmans Creek, 16.21 km north of Singleton**

This bridge is 59 m long and has six timber beam spans. Urgent timber repairs were carried out.

### **SH9 — New England Highway over Railway line at Aberdeen**

This bridge is 25 m long and has three steel girder spans. Replacement of the concrete deck was continued.

### **SH9 — New England Highway over MacDonald River at Bendemeer**

This bridge is 92 m long and has one timber truss span and six timber girder spans. Repairs to and repainting of the truss span, commenced in 1976-77, were completed.

### **SH10 — Pacific Highway over Camden Haven River at Ross Glen**

This bridge is 146 m long and has 11 steel spans. General repairs and repainting by Departmental forces were carried out.

### **SH10 — Pacific Highway — Martin Bridge over Manning River at Taree**

This bridge is 475 m long with eleven 37 m long steel truss spans and a 19 m former lift span and three steel girder spans. General repairs by Departmental forces and repainting by contract, commenced in 1976/77, were completed.

### **SH10 — Pacific Highway over Hawkesbury River at Peats Ferry**

This bridge is 602 m long and has nine steel beam spans, eight steel girder spans and two steel truss spans. Repainting of all steelwork by contract was commenced.

### **SH10 — Pacific Highway — Swansea Bridge over entrance to Lake Macquarie**

This bridge is 174 m long and has one bascule span and 12 steel beam spans. The control console operating the bascule span was replaced and a housing was erected for the control console.

### **SH10 — Pacific Highway over Ironbark Creek at Hexham**

This bridge is 98 m long and has five steel beam spans. Modifications to all bearings at abutments and piers were carried out.

### **SH10 — Pacific Highway — Hexham Bridge over Hunter River at Hexham**

This bridge is 382 m long with six truss spans including one lift span, and 13 steel beam spans. Permanent repairs to severely damaged lift span truss and repainting of steelwork by contract were carried out.

### **SH10 — Pacific Highway over Clarence River at Harwood**

This bridge is 888 m long with one lift span, six steel truss spans and 27 steel girder spans. Repainting of the steelwork by Departmental contract was deferred.

### **SH10 — Pacific Highway over Clarence River (North Arm) at Mororo**

This bridge is 198 m long with two steel truss spans, one steel girder lift span and 10 steel girder spans. Repairs and painting of steelwork, continued in 1976-77, were completed.

### **SH10 — Pacific Highway over Tweed River at Barney's Point**

This bridge is 191 m long with a lift span, two steel truss spans and eight steel girder spans. Repainting of steelwork by Departmental contract, commenced in 1976-77, was completed.

### **SH10 — Pacific Highway over Richmond River at Wardell**

This bridge is 225 m long and has seven concrete beam spans and one steel truss span. Repainting of steelwork by Departmental contract and extensive concrete repairs, commenced in 1976-77, were continued.



**SH12 — Gwydir Highway — Ross Hill Bridge over Macintyre River at Inverell**

This bridge is 134.1 m long and has three timber truss spans and four timber beam spans. Replacement of all cross decking, longitudinal sheeting, kerbs and eight girders in the four timber beam approach spans was carried out.

Replacement of four headstock girders, seven cross girders, 60% of stringers and correction to the longitudinal profile on the timber truss spans were commenced.

**SH12 — Gwydir Highway over Cangal Creek 56.2 km west of Grafton**

This bridge is 51 m long and has five timber beam spans. Replacement of decking, sheeting and kerbs was carried out.

**SH16 — Bruxner Highway over Plumbago Creek at Drake**

This bridge is 37.5 m long and has four timber beam spans. Replacement of decking, sheeting and one girder, commenced in 1976-77, was completed.

**SH16 — Bruxner Highway over Sandy Creek, 32.7 km east of Tenterfield**

This bridge is 82 m long and has one timber truss span and six timber beam spans. Replacement of girders, decking and headstocks, commenced in 1976-77, was continued.

**SH16 — Bruxner Highway over Snake Creek, 22.2 km east of Tenterfield**

This bridge is 28.35 m long and has three timber beam spans. Replacement of decking, sheeting, piles and one abutment, commenced in 1976-77, was completed.

**SH16 — Bruxner Highway over Mole River, 60.38 km west of Tenterfield**

This low level bridge is 72.54 m long and has seven timber beam spans. Replacement of decking, sheeting and four girders was commenced.

**SH16 — Bruxner Highway over Reedy Creek, 65.09 km west of Tenterfield**

This low level bridge is 54.25 m long and has five timber beam spans. Replacement of sheeting, three girders, two piles, one corbel and two abutment wales was carried out.

**SH16 — Bruxner Highway over Beardy River at Maldenhead**

This low level bridge is 51.2 m long and has five timber beam spans. Replacement of three girders and longitudinal sheeting was carried out.

**SH17 — Newell Highway over Billabong Creek, 1.95 km north of Jerilderie**

This bridge is 52.6 m long and has six timber beam spans. Replacement of girders, a cross stringer, repairs to longitudinal decking and kerbs and repainting of handrails were carried out.

**SH17 — Newell Highway — Boolooroo Bridge over Gwydir River at Camurra**

This bridge is 97.8 m long and has three timber truss spans and two timber beam spans. Replacement of a timber beam span by an earth filled embankment, one timber truss span by Bailey bridging and the strengthening of another truss span following extensive damage were carried out.

**SH18 — Castlereagh Highway over Two Mile Warrambool, 3 km north of Walgett**

This bridge is 85 m long and has 11 timber beam spans. Replacement of decking and longitudinal sheeting, and general superstructure repairs were carried out.

**SH18 — Castlereagh Highway over Pagan Creek, 5 km north of Walgett**

This bridge is 152 m long and has 20 timber beam spans. Extensive repairs to decking and longitudinal sheeting, girders and substructure, commenced in 1976-77, were completed.

**SH18 — Castlereagh Highway over Barwon River at Eumenbah, 6.5 km north of Walgett**

This bridge is 156 m long and has three timber truss spans and eight timber beam spans. Extensive repairs to longitudinal sheeting and decking on the truss spans and repairs to the superstructure were commenced.

**SH19 — Monaro Highway over Bombala River at Bombala**

This bridge is 88 m long and has three timber beam spans and two timber truss spans. Major repairs to the girders, truss members, piles and decking were carried out.

**SH21 — Cobb Highway over Merimajee Creek No. 3, 16.3 km north of Booligal**

This bridge is 63 m long and has seven timber beam spans. Replacement of decking, sheeting, handrails and fender posts and repainting of the handrails and kerbs were carried out.

**SH21 — Cobb Highway over Merowie Creek, 29.6 km north of Booligal**

This bridge is 76.5 m long and has 10 timber beam spans. Replacement of two girders, 30% of decking, sheeting and kerbs and repainting of the handrails and kerbs were carried out.

**SH21 — Cobb Highway, over Murray River Flood Channel at Moama**

This bridge is 124 m long and has 27 timber beam spans. Replacement of stringers, capwales, brace, decking, sheeting, abutment sheeting and kerbing was carried out.

**SH22 — Silver City Highway — Abbotsford Bridge over Murray River at Curtwaia**

This bridge is 235 m long with one lift span, four steel truss spans and eight steel girder approach spans. Replacement of timber decking on the approach spans was carried out.

## TRUNK ROADS

**TR54 over Abercrombie River at Abercrombie**

This bridge is 106 m long and has three timber truss spans and four timber beam spans. Replacement of two girders, longitudinal sheeting and kerbs was carried out.

**TR62 over Munmurra River, 1.9 km south of Cassills**

This bridge is 68 m long and has one timber truss span and four timber beam spans. Replacement of longitudinal running planks was carried out by Merriwa Shire Council.

**TR67 over Murray River at Swan Hill**

This bridge is 117 m long with four timber beam spans, two timber truss spans and a steel truss lift span. Replacement of piles, capwales, braces, some sheeting and kerbs, painting of handrails, kerbs, top and lower chords and patch painting of the steel lift span and towers were carried out.

**TR68 over Talyawalka Creek south of Menindee**

This bridge is 77 m long and has 10 timber beam spans. Replacement of the decking and sheeting was carried out.



**TR72 over Coxs Creek, 1.85 km south of Boggabri**

This bridge is 65 m long and has seven timber beam spans. Repairs to decking, handrails and gravel boards were completed by Namoi Shire Council.

**TR74 over Commissioners Waters, 7 km east of Amidale**

This bridge is 49.7 m long and has two timber girders and a timber truss span. Replacement and strengthening of existing temporary Bailey bridging were completed by Dumaresq Shire Council.

**TR75 over Five Day Creek at Comara**

This bridge is 72 m long and has six timber beam spans and one 23 m timber truss span.

Extensive structural repairs, commenced in 1976-77, were completed.

**TR78 — Hampden Bridge over Murrumbidgee River at Wagga Wagga**

This bridge is 197 m long and has nine timber beam spans and three timber truss spans. Replacement of top walings and piles and minor repairs were carried out.

**TR86 — Oedings Approach Bridge No. 3 to Murray River at Corowa**

This bridge is 67 m long and has 11 timber beam spans. Replacement of backsheeting, piles, walings, girders and corbels and repairs to the decking and handrails were carried out.

**TR86 — John Foord Bridge over Murray River at Corowa**

This bridge is 152 m long and has three steel truss spans and four timber beam spans. Repairs to the footway and decking were carried out.

**TR92 — Charleyong Bridge over Mongariowe River at Charleyong**

This bridge is 89.3 m long and has six timber beam spans and one timber truss span. Replacement of four piles, stringers, decking, eight girders and repainting were carried out.

**TR94 over Wakool River Flood Channel at Gee Gee**

This bridge is 112.4 m long and has 15 timber beam spans. Replacement of girders, corbels, capwale and the splicing of five piles and repainting of the handrails were carried out.

## MAIN ROADS

**MR102 — Hinton Bridge over Paterson River at Hinton**

This bridge is 179 m long with two timber truss spans, one steel lift span (not in operation) and ten timber beam spans. Timber repairs including truss repairs were carried out.

**MR105 over Pages River at Gundy**

This bridge is 87.5 m long and has one timber truss span and five timber girder spans. Replacement of girders and repairs to the truss, commenced in 1976-77, were completed.

**MR105 over Hunter River at Lower Razorback, 37 km north of Scone**

This bridge is 70 m long and has one timber truss span and five timber girder spans. Repairs to the piers, girders and truss span were completed by Scone Shire Council.

**MR111 — Forster-Tuncurry Bridge over Wollomba River**

This bridge is 609 m long and has 47 prestressed concrete beam spans and one steel beam span. Replacement of wire mesh on handrailing was carried out and site investigations were commenced for strengthening of piers weakened by severe erosion.

**MR127 — Dangar Bridge over Barwon River, 5.5 km west of Walgett**

This bridge is 119 m long and has seven timber beam spans and two timber truss spans. Replacement of decking, longitudinal sheeting, girders and substructure components was carried out.

**MR128 — Redbourneberry Bridge over Hunter River at Singleton**

This bridge is 375 m long with three steel lattice girder spans, one steel beam span and 26 timber beam spans. Timber repairs were partly completed.

**MR128 — Vacy Bridge over Paterson River at Vacy**

This bridge is 65 m long and has two timber truss spans and one timber beam span. Installation of additional diagonal bracings in the truss spans was carried out.

**MR150 over Whitemans Creek, 20.4 km west of Grafton**

This bridge is 77 m long and has six timber beam spans. Replacement of one girder and piles and the redecking of five spans were carried out.

**MR165 — Glebe Island Bridge at Rozelle Bay**

This bridge is 108.2 m long and has two steel truss spans and two steel truss swing spans. Repairs to the fender and rest pier were completed.

**MR165 — Iron Cove Bridge over Iron Cove at Drummoyne**

This bridge is 468 m long and has four steel girder spans and seven steel truss spans. Painting of the substructure of the additional lane was completed.

**MR165 — Gladesville Bridge over Parramatta River at Gladesville**

This bridge is 579 m long and has eight 31 m prestressed concrete segmented box girder spans and one 305 m Vauissior arch span. Investigations into the causes of cracking at the crown and abutments were completed.

**MR166 — Tarban Creek Bridge over Tarban Creek at Hunters Hill**

This bridge is 228.3 m long and has nine prestressed concrete girder spans. Investigations on the previously repaired post tensioned cables were continued.

**MR181 — St. Albans Bridge over McDonald River at St. Albans**

This bridge is 116 m long and has four timber beam spans and two timber truss spans. Repairs to the truss, deck system, St. Albans end pier and decking were carried out.

**MR184 over Hawkesbury River at North Richmond**

This bridge is 215 m long and has 13 concrete arch spans. Repairs to the piers and concrete arches were carried out.

**MR194 — Endeavour Bridge over Cooks River Diversion Channel at Kyeemagh**

This bridge is 172.6 m long and has eight concrete beam spans. Repairs to the concrete piers were completed.

**MR197 — Approach Bridge No. 2 to Murray River at Howlong**

This bridge is 54 m long and has seven timber beam spans. Placing of new transverse decking was carried out.

**MR197 — Approach Bridge No. 1 to Murray River at Howlong**

This bridge is 94 m long and has nine timber beam spans. Replacement of piles and girders was carried out.



**MR209 — Lower Wybong Bridge over Wybong Creek at Hollydeen**

This bridge is 89 m long and has two timber truss spans and four timber beam spans. Urgent truss repairs were carried out.

**MR222 over Murray River at Tooleybuc**

This bridge is 89.4 m long with two timber truss spans, a lift span and three timber beam spans. Replacement of piles, headstocks, braces, cross girders, stringers and some kerbs and repainting of the superstructure were carried out.

**MR226 over Bullanginya Lagoon at Barooga**

This bridge is 192.1 m long and has 21 timber beam spans. Replacement of decking, sheeting, girders and piles was carried out.

**MR233 — Yamble Bridge over Cudgegong River, 24 km west of Gulgong**

This bridge is 117.6 m long and has one timber truss span and seven timber beam spans. Replacement of decking, five girders and one corbel in the approach spans, together with one sway girder and sheeting in the truss span, was carried out.

**MR270 — Ballalaba Bridge over Shoalhaven River at Ballalaba**

This bridge is 102 m long and has two timber beam spans and three timber truss spans. Replacement of top chord, decking, piles, girders, stringers and strengthening and/or replacement of two lower chords were commenced.

**MR278 over Goodradigbee River at Wee Jasper**

This bridge is 66.5 m long and has four timber beam spans and one timber truss span. Replacement of decking and stringers was carried out.

**MR278 — Taemas Bridge over Murrumbidgee River at Taemas**

This bridge is 213.6 m long and has two steel beam spans and four steel truss spans. Painting of superstructure was commenced.

**MR301 — Dunmore Bridge over Paterson River at Woodville**

This bridge is 130 m long with three timber truss spans, one steel lift span (not in operation) and one timber beam span. Timber repairs, including truss repairs, commenced in 1976-77, were completed.

**MR319 over Murray River at Barham**

This bridge is 99.8 m long with one steel lift span, two steel and timber truss spans and two timber beam spans. Replacement of chords, principals, capwales and a stringer and repainting of the timber truss, handrails and steel cylinders were carried out.

**MR403 over Bokhara Bywash, 20 km north of Brewarrina**

This bridge is 74 m long and has eight timber beam spans. Major repairs to the decking, longitudinal sheeting and general substructure were commenced.

**MR403 — Milroy Bridge over Culgoa River at Collerina**

This bridge is 59 m long and has seven timber beam spans. Repairs to the abutments, girders, longitudinal sheeting and decking were completed.

**MR503 — Colo River Bridge over Colo River, 24 km north of Windsor**

This low level structure is 75 m long and has seven timber beam spans. Repairs to the deck were carried out.

**MR572 — White Bridge over Macquarie River at Narromine**

This bridge is 161 m long and has 11 timber beam spans and two truss spans.

Replacement of decking, sheeting, kerbs, handrails, piles, girders and pile braces, commenced in 1976-77, was completed.

**MR583 — Approach Bridge No. 2 to Murray River at Robinvale**

This bridge is 168 m long and has 23 timber beam spans. Replacement of two corbels, 31 girders and 12 piles was carried out.

**MR593 over Epsom Road on Southern Cross Drive**

This bridge is 61.7 m long and has two concrete beam spans. Installation of trial expansion jointing material was completed and is under measurement and investigation.

**MR599 over Long Bay at Northbridge (Northbridge Suspension Bridge)**

This bridge is 152 m long and has two concrete beam spans and one concrete arch span. Repairs to the stone parapet, commenced in 1976-77, were completed.

## SECONDARY ROAD

**SR2021 — Cooks River Bridge over Cooks River at Undercliffe**

This bridge is 56.8 m long and has six concrete beam spans. Painting of the supporting girders and the reinstatement of the expansion joint were carried out.

## UNCLASSIFIED ROADS

**Unclassified Road over Macleay River at Sherwood**

This bridge is 93 m long and has eight timber beam spans. Major structural repairs were commenced.

**Unclassified Road over Goobang Creek at Condobolin**

This bridge is 62 m long and has four timber beam spans and one truss span. Replacement of girders, wales, piles, sheeting and decking, commenced in 1976-77, was completed.

**Unclassified Road over Snowy River at Dalgety**

This bridge is 169 m long and has 10 timber beam spans and two steel truss spans. Painting by contract of all steel surfaces was completed.

**Unclassified Road over Towamba River at New Buildings**

This bridge is 101 m long and has three composite truss spans and two timber beam spans. Major repairs to the girders, truss members, decking and piers were carried out.

**Unclassified Road — Ash Island Bridge over Hunter River (South Arm)**

This bridge is 171 m long and has 13 steel beam spans. Repainting of steelwork, commenced in 1976-77, was completed.

**Unclassified Road — Luskintyre Bridge over Hunter River, 5 km west of Lochinvar**

This bridge is 279 m long and has two steel truss spans and 15 timber beam spans. Timber redecking of the truss spans was carried out.



**Unclassified Road — Paterson Bridge over Paterson River at Paterson**

This bridge is 92 m long and has three steel lattice girder spans. Repainting of steelwork was partly completed.

**Unclassified Road — Eurole Bridge over Murrumbidgee River at Eurole**

This bridge is 96 m long and has four timber beam spans and two timber truss spans. Replacement of the timber decking was carried out.

**Unclassified Road over Gwydir River at Pallamallawa**

This bridge is 93.2 m long and has two timber truss spans and four timber beam spans. Replacement of three cross girders, truss chords, 12 piles and pedestrian refuge was continued.

**Unclassified Road — Fladbury Bridge over Severn River, 29 km north of Glen Innes**

This low level bridge is 130.3 m long and has 14 timber beam spans. Replacement of decking, sheeting, kerbs and corbels was continued.

**Unclassified Road — Briner Bridge over Upper Coldstream River at Tucabia**

This bridge is 114.6 m long and has eight timber beam spans and one timber truss span. Extensive timber repairs were carried out.

**Unclassified Road — Cohens Bridge over Namoi River at Gunnedah**

This bridge is 173 m long and has two steel truss spans and ten concrete girder spans. Cleaning and lubrication of bearings, cleaning of bottom chords of the steel truss and repairs to the steel pipe railing and rails to the pedestrian safety gate were completed in preparation for repainting of the steelwork by contract.

**Unclassified Road — Pymont Bridge over Darling Harbour at Pymont**

This bridge is 370.3 m long and has 12 timber truss spans and two steel truss swing spans. Sealing of the longitudinal and transverse expansion joints was carried out and the replacement of several substructure timber truss members was continued.

**Unclassified Road — Lansdowne Bridge over Mulwaree Ponds at East Goulburn**

This bridge is 97.5 m long and has seven timber beam spans and one timber truss span. Repairs to girders and corbels and the replacement of the deck were carried out.

**Unclassified Road — Rossi Bridge over Wollondilly River, 4.8 km north of Goulburn**

This bridge is 106 m long and has two timber beam spans and three timber truss spans. Replacement of decking, sheeting, one cross girder and stringers was commenced.

## **FERRIES**

**Ferry over Hawkesbury River at Webbs Creek — MR181**

This vessel is a 15 car steel hull ferry. A major overhaul of this vessel was carried out by the Department's own forces.

**Ferry over Hawkesbury River at Wisemans Ferry — MR225**

This vessel is a 24 car steel hull ferry. A major overhaul of this vessel was carried out by the Department's own forces.

**Ferry over Clarence River at Ulmarra — Unclassified Road**

This vessel is a six car timber hull ferry. A major overhaul of this vessel including strengthening of the main flaps was carried out by the Department's own forces.

**Clarence River Relief Ferry — Vessel No. 10**

This vessel is a six car timber hull ferry. A major overhaul of this vessel was carried out by the Department's own forces.



# TRAFFIC ENGINEERING

## MEDIAN STRIPS

The location and lengths of divided carriageways constructed on Main Roads are listed below.

Road No.	Location	Length in km		
		Less than 1.5 m in width	1.5 m to 3 m in width	3 m and greater in width
SH2	Hume Highway from 193 km to 196.3 km south of Mittagong, at North Goulburn.....	2.0		1.3
SH2	Hume Highway at Derringullen Creek, 6.3 km to 10.5 km south of Yass.....			4.2
SH3	Federal Highway, from 14.3 km to 22.2 km south of Goulburn.....			7.9
SH9	New England Highway, near Marius Street, Tamworth.....	0.2		
TR52	From TR51 to 2.04 km north of Queanbeyan.....			0.8
TR82	Ulan to Croudace.....			0.86
TR95	Between MR513 and MR186.....			1.0
MR162	Mona Vale Road, Highlands Avenue to Cowan Road.....			0.39
MR162	Mona Vale Road, Killeaton Street to Wildflower Garden, St. Ives...			1.16
MR170	Botany Road between Burnborah Point Road and Bunnerong Road.....		0.5	
MR171	Bunnerong Road between Flint Street and Beauchamp Road.....			0.56
MR190	Rookwood Road between Boardman Street and McMillan Street.....	0.3	0.3	0.4
MR190	Rookwood Road between Boardman Street and Lewis Street.....	0.1		0.6
MR309	Aston Street between Eleanor Street and Hassall Street.....	0.2	0.1	0.8
MR515	Elizabeth Drive between Copeland Street and McLean Street.....		0.1	
MR522	From Shellharbour deviation 3.8 km to 5.13 km from SH1 at Dunmore.....			1.33
SR5037	Parramatta By-Pass.....	1.2		

## SUMMARY

Total constructed in 1977-78.....	4.0	1.0	21.3
Total constructed in 1976-77.....	1.1	1.4	19.3
Totals as at 30.6.78.....	126.0	126.0	364.0
Totals as at 30.6.77.....	122.0	125.0	342.7

## CHANNELISATION OF INTERSECTIONS

Channelisation was completed at 13 intersections during the year while 38 intersections were reconstructed and improved. Work is in progress at a further 24 intersections and designs have been completed for 43 channelised intersections.

### (a) Intersections channelised in permanent materials

SH1	Princes Highway and Carwar Avenue, Blakehurst.
SH1	Flinders Street, Smith Street and Keira Street, Wollongong.
SH1	Princes Highway and Shore Street, Moruya.
SH2 & MR125	Hume Highway and Union Road, Albury.
SH20	Riverina Highway and Tocumwal Street, Finley.
TR51	TR51 with Richard Avenue, Queanbeyan.
TR82	TR82 and Croudace Street, Lambton.
MR162	Lane Cove Road and Waterloo Road, North Ryde.
MR508	Henry Lawson Drive and Bullecourt Avenue, Milperra.
SR2014	Brighton Avenue and Beamish Street, Campsie.
SR2032 & SR2079	West Botany Street and President Avenue, Kogarah.
SR2057	Church Street and northern approach to railway overbridge, Lidcombe.
UNCL	Dumaresq Street and Danger Street, Armidale.

### (b) Intersections reconstructed and improved

SH1	Princes Highway and Oak Road, Kirrawee.
SH1	Princes Highway and Darkes Forest Road, Wollongong.
SH1	Princes Highway and Broulee Road, south of Batemans Bay.
SH1	Princes Highway and Dalmerly Road, south of Batemans Bay.
SH1 & SH4	Princes Highway and Snowy Mountains Highway, north of Bega.
SH5	Great Western Highway and Old Windsor Road, Prospect.
SH5	Great Western Highway and Nepean Avenue, Emu Plains.
SH5	Great Western Highway and Greystanes Road, Greystanes.
SH5 & MR255	Great Western Highway and MR255, at Diamond Swamp.
SH5	Great Western Highway and Appian Way, Woodford.
SH5	Great Western Highway and Coughland Road, Blaxland.
SH5	Great Western Highway and Valley Road, Wentworth Falls.
SH5	Great Western Highway and Napoleon Street, Raglan.
SH5 & MR253	Great Western Highway and MR253, Hartley.
SH7 & MR233	Mitchell Highway and Mudgee Road, north of Wellington.
SH9	New England Highway and Denman Avenue, Kootingal.



SH10 & SH23	Pacific Highway and SH23, Sandgate.	MR327	Alison Road, Doncaster Avenue and Bus Road, Randwick.
SH10	Pacific Highway and Second Lane, north of Kempsey.	MR336 & MR505	The Entrance Road and Terrigal Road, Erina.
SH10	Pacific Highway and access to rest area at Caimcross State Forest.	MR508 & SH2	Henry Lawson Drive and Hume Highway, Milperra.
SH10 & MR152	Pacific Highway and MR152, north of Grafton.	SR2081	First Avenue and East Parade, Eastwood.
SH10	Pacific Highway and North Sapphire Road, north of Coffs Harbour.	SR2081	Rutledge Street and Shaftesbury Road, Eastwood.
SH13	Woodville Road and Llewellyn Avenue, Villawood.	SR2085	Blacktown Road and Church Lane, Prospect.
SH13	Woodville Road and Guildford Road, Guildford.	UNCL	Fowler Road and West Guildford Road, Guildford.
SH13	Woodville Road and Villawood Road, Villawood.		
SH26 & SH10	Peats Ridge Road and Pacific Highway, Ourimbah.	<b>(d) Design for channelisation completed</b>	
MR168 & SR2032	West Botany Street and Wickham Street, Amcliffe.	SH1 & MR295	Princes Highway and MR295 at Unanderra.
MR184 & MR181	Windsor Road and Pitt Town Road, McGraths Hill.	SH2	Hume Highway and Noble Avenue, Chullora.
MR190 & SR2094	Rookwood Road and Bruner Road, Greenacre.	SH2	Hume Highway and Johnston Road, Bass Hill.
MR199	Taren Point Road, Holt Road and Toorak Avenue, Taren Point.	SH5	Great Western Highway and Old Western Road, Prospect.
MR217 & MR223	At Glendale.	SH5	Great Western Highway and Castlereagh Street, Penrith.
MR515	Wallgrove Road and Old Wallgrove Road, Eastern Creek.	SH5	Great Western Highway with Carry Street and Lawson Street, Emu Plains.
MR608 & SR2071	Copeland Street and Orange Grove Road, Liverpool.	SH5	Great Western Highway and Layton Avenue, Blaxland.
SR2027	Morwick Street, Railway Parade and Wentworth Road, Strathfield.	SH7	Mitchell Highway and Wheelers Lane, Dubbo.
UNCL	Railway Parade with Frederick Street and Stuart Street, Fairfield.	SH9 & MR135	New England Highway (Malpas Street) and Ollera Street, Guyra.
UNCL	Oxford Street and Langston Place, Epping.	SH9 & SH11	New England Highway and Oxley Highway, Tamworth.
UNCL	George Hanley Drive with Squires Way and Virginia Street, Wollongong.	SH10 & TR65	Pacific Highway and TR65, at Bangalow.
UNCL	Rusden Street and Dangar Street, Armidale.	SH10	Pacific Highway and the road to Croki, 15.4 km north of Taree.
UNCL	Rusden Street and Faulkner Street, Armidale.	SH10	Pacific Highway and the road to Croki, 16.6 km north of Taree.
<b>(c) Intersections in the process of channelisation</b>		SH13	Pennant Hills Road, Sorrell Street and Belmore Street, Parramatta.
SH2	Hume Highway with Clinton Street and Cowper Street, Goulburn.	SH16	Bruxner Highway and Kadina Street, west of Ballina.
SH5 & TR54	Great Western Highway and TR54 north of MR253, Kelso.	SH16	Bruxner Highway and Invercauld Road, west of Ballina.
SH5	Great Western Highway and TR54 south, at Bathurst.	SH22 & MR577	Silver City Highway and MR577 at Broken Hill.
SH9 & MR218	New England Highway and Ledsam Street, Maitland.	MR139 & SR2081	Blaxland Road and First Avenue, Eastwood.
SH9	New England Highway with Brisbane Street and Marius Street, Tamworth.	MR160	Old Northern Road and Castle Street, Castle Hill.
SH10 & MR225	Pacific Highway and Somersby Road, Kariong.	MR177 & MR178	Appin Road, Queen Street and Campbelltown Road, Campbelltown.
SH13 & MR158	Pennant Hills Road and Marsden Road, Carlingford.	MR177	Appin Road and The Parkway, Campbelltown.
TR65	Shirley Street and Butler Street, north of Byron Bay.	MR184	Windsor Road and Briens Road, Northmead.
TR80	TR80 and Audley Street, Narrandera.	MR184	Windsor Road and Macquarie Street, Windsor.
MR162 & MR373	Lane Cove Road and Epping Road, North Ryde.	MR190	Olympic Drive, Church Street and Bridge Street, Lidcombe.
MR164	Barrenjoey Road and Bassett Street, Mona Vale.	MR190 & SR2057	Joseph Street and Amy Street, Lidcombe.
MR173	New South Head Road and Ocean Street, Edgecliff.	MR350	Olympic Drive and Church Street, Lidcombe.
MR194 & MR617	General Holmes Drive and Foreshore Road, Botany.	MR373 & SR2058	MR350 and Farnell Street, Forbes.
MR200	Concord Road and Alfred Street, Rhodes.	MR508	Epping Road and Wicks Road, North Ryde.
MR238 & MR377	At Eugaura.	MR532	Henry Lawson Drive and Dilke Road, Padstow Heights.
MR315 & SR2014	King Georges Road and Stoney Creek Road, Beverly Hills.	MR609	Silverwater Road and Camarvon Street, Silverwater.
MR325	Gari and Cadaga Street, Warners Bay.		The Horsley Drive and Sanderson Street, Carramar.



SR2024	Balaclava Road, Corunna Road and North Road, Eastwood.
SR2057	Archer Street and Fraser Street, Strathfield West.
SR2061	Davies Road, Alma Road and County Road, Padstow Heights.
SR2084	Seven Hills Road with Olive Street and Federal Street, Seven Hills.
SR2090	Boronia Road, Juno Parade and Waterloo Road, Greenacre.
UNCL	Johnston Avenue and Northcote Road, Lallor Park.
UNCL	Alfred Street and Weston Street, Harris Park.
UNCL	Kleins Road and Briens Road, Northmead.
UNCL	Waterloo Road, access to Public Transport Commission, Chullora.
UNCL	Railway Parade and Bold Street, Granville.
UNCL	Alice Street, South Parade and The Crescent, Auburn.
UNCL	Clancy Street and County Road, Padstow Heights.

## BUS BAYS

The number of bus bays, and their locations, which have been provided on Main Roads are listed below.

SH1	Princes Highway, near South Street, Batemans Bay.
SH2	Hume Highway, north of Myall Road, Casula.
SH2	Hume Highway, south of Leacocks Avenue, Casula.
SH2	Hume Highway, further south of Leacocks Avenue, Casula.
MR152	MR152 near Golding Street, Yamba.
MR185	On western side, between Boyce Avenue and Maxwell Road, Austinmer.
MR185	On eastern side, at Headland Avenue, Austinmer.
MR185	On western side, north of Rawson Street, Coledale.
MR185	On eastern side, south of Park Street, Coledale.
MR185	On western side, north of Hemsley Place, Coledale.
MR534	Cabramatta Road, east of Lima Street, Cabramatta West.
MR534	Cabramatta Road, east of Bold Street, Cabramatta West.
MR534	Cabramatta Road, east of High Street, Cabramatta West.
MR534	Cabramatta Road, east of Towers Street, Cabramatta West.

MR534	Cabramatta Road, west of Towers Street, Cabramatta West.
MR534	Cabramatta Road, west of Coventry Road, Cabramatta.
MR560	Near Pacific Street, Batemans Bay.
MR560	Near Marine Centre, Batemans Bay.
MR560	Near Catalina Club, Batemans Bay.

## SUMMARY

Total constructed, 1977-78 .....	19
Total constructed, 1976-77 .....	28
Total as at 30.6.78 .....	175
Total as at 30.6.77 .....	156

## CLIMBING LANES

The number and location of climbing lanes which have been constructed for slow moving vehicles on hills are listed below.

SH1	Princes Highway, 23 km to 24.1 km south of Nowra (northbound).
SH1	Princes Highway, 23 km to 24.1 km south of Nowra (southbound).
SH1	Princes Highway, 36.7 km to 37.4 km south of Nowra (southbound).
SH1	Princes Highway, 55.1 km to 56.1 km south of Bega.
SH2	Hume Highway, 59.0 km to 61.0 km south of Goulburn.
SH2	Hume Highway, 45.1 km to 47.6 km south of Goulburn.
SH5	Great Western Highway at Mount Boyce.
SH5	Great Western Highway at Diamond Swamp.
SH10	Pacific Highway, 95.65 km to 96.55 km north of Kempsey.
SH10	Pacific Highway from Merewether to Merewether Heights.
TR51	TR51, 13.19 km to 14.69 km west of Batemans Bay.
TR51	TR51, 20.3 km to 21.4 km west of Batemans Bay.
TR51	TR51, 31.0 km to 31.4 km west of Batemans Bay.
TR51	TR51, 2.5 km to 3.1 km east of Queanbeyan.
MR217	MR217 south of Wangi.
MR217	MR217 north of Wangi.

## SUMMARY

Total constructed, 1977-78 .....	16
Total constructed, 1976-77 .....	13
Total as at 30.6.78 .....	236
Total as at 30.6.77 .....	220



## TRAFFIC SIGNALS

The number of Traffic Signal installations completed and their locations are listed below.  
(Notations - V for vehicle actuated and P for pedestrian actuated.)

Traffic Control Signal No.	Location	Type	Date
282	Cleveland Street, east of South Dowling Street, Moore Park.....	P	19.5.78
287	Forest Way near Rabbett Street, Frenchs Forest.....	P	21.4.78
679	King Street, north of Union Street, Newtown.....	P	7.4.78
848	Wakehurst Parkway and Frenchs Forest Road, Frenchs Forest.....	V	8.5.78
889	Argyle Street and O'Connell Street, Parramatta.....	V	23.5.78
906	Queen Street and Mancur Street, Woollahra.....	V	15.12.77
928	Pacific Highway and Charlestown Road, Charlestown.....	V	12.9.77
931	Pacific Highway and Frederick Street, Charlestown.....	V	7.10.77
932	Pacific Highway, Dudley Road and Park Road, Charlestown.....	V	17.10.77
968	Woodville Road, Villawood Road and Llewellyn Avenue, Villawood.....	V	26.1.78
1002	Marion Street, Greenwood Avenue and Olympic Drive, Bankstown.....	V	23.3.78
1016	Victoria Road and Merton Street, Gladesville.....	V	5.12.77
1054	Sydney Road and Thornton Street, Fairlight.....	V	28.4.78
1086	Windsor Road and Moxhams Road, Northmead.....	V	3.8.77
1102	Macquarie Street and Smith Street, Parramatta.....	V	7.9.77
1109	Pacific Highway and Livingstone Road, Pymble.....	V	26.6.78
1153	Marrickville Road and Petersham Road, Marrickville.....	V	4.1.78
1158	Allison Road and Carrington Road, Randwick.....	V	28.2.78
1168	Orlando Road and Griffiths Road, Lambton.....	V	29.3.78
1183	Morwick Street, Railway Parade and Wentworth Road, Burwood.....	V	5.8.77
1193	Bourke Street and Fernleigh Road, Wagga Wagga.....	V	14.10.77
1210	Gladstone Avenue and Bridge Street, Coniston.....	V	11.11.77
1214	Silverwater Road and Carnarvon Street, Silverwater.....	V	10.5.78
1217	Donald Street and Beaumont Street, Hamilton.....	V	15.8.77
1225	Fox Valley Road and Pacific Highway, Warrawee.....	V	16.11.77
1234	Great Western Highway and Carlisle Street, Mt. Druitt.....	V	11.8.77
1235	Great Western Highway and Bennett Road, St. Marys.....	V	23.9.77
1236	Great Western Highway and Glossop Street, St. Marys.....	V	26.7.77
1237	Great Western Highway and Reservoir Road, Blacktown.....	V	21.7.77
1239	Hume Highway and Hollywood Drive, Lansvale.....	V	24.10.77
1244	Merrylands Road and Betts Road, Merrylands.....	V	29.9.77
1245	Merrylands Road and Treves Street, Merrylands.....	V	1.9.77
1246	Merrylands Road and Cherwynd Road, Merrylands.....	V	29.9.77
1248	Great Western Highway and Bridge Road, Mays Hill.....	V	28.9.77
1249	Windsor Road and Coronation Road, Baulkham Hills.....	V	14.3.78
1250	Hume Highway and Noble Avenue, Greenacre.....	V	17.10.77
1251	President Avenue and Wandella Road, South Miranda.....	V	19.9.77
1252	Pacific Highway with Shirley Road and Clanville Road, Roseville.....	V	15.2.78
1255	Pennant Hills Road and Duffy Avenue, Thomleigh.....	V	11.8.77
1257	Pittwater Road and Waterloo Road, Narrabeen.....	V	21.7.77
1262	Bunnerong Road, Perry Street and Franklin Street, Matraville.....	V	2.11.77
1266	Great Western Highway and Henry Street, Penrith.....	V	31.8.77
1267	Great Western Highway and Castlereagh Road, Penrith.....	V	23.9.77
1272	Campbelltown Road and Glenfield Road, Glenfield.....	V	6.9.77
1273	Pennant Hills Road, The Crescent and Railway Street, Pennant Hills.....	V	20.9.77
1276	Blaxland Road and North Road, Denistone.....	V	1.11.77
1277	Windsor Road and Churchill Drive, Northmead.....	V	29.7.77
1279	Windsor Road and Showground Road, Castle Hill.....	V	12.8.77
1286	Princes Highway and Carwar Avenue, Blakehurst.....	V	18.5.78
1287	Princes Highway and Torrens Street, Blakehurst.....	V	26.8.77
1294	Old Pittwater Road and Beacon Hill Road, Brookvale.....	V	12.10.77
1298	Loma Street and Maud Street, Waratah.....	V	29.3.78
1304	Forest Way and Adams Street, Frenchs Forest.....	V	30.9.77
1306	Alexander Street and Ernest Street, Crows Nest.....	V	25.7.77
1307	Oliver Street and Cavill Street, Harbord.....	V	12.4.78
1311	Pacific Highway and MR509 at Doyalson.....	V	22.8.77
1312	Pacific Highway and Evans Street, Belmont.....	V	11.5.78
1317	Homer Street and Bayview Avenue, Earlwood.....	V	9.8.77
1320	Hume Highway with Urana Road and Union Road, Albury.....	V	20.3.78
1321	Princes Highway, Towradge Road and Calwell Avenue, Towralgi.....	V	18.7.77
1324	Sunnynolt Road, Sackville Street and Fifth Avenue, Blacktown.....	V	7.7.77
1327	Station Street and Dunmore Street, Wentworthville.....	V	29.9.77
1328	Railway Parade and Bold Street, Granville.....	V	8.6.78
1333	Sydney Road and Hill Street, Fairlight.....	V	13.2.78
1335	West Botany Street and President Avenue, Kogarah.....	V	14.7.77
1339	Warringah Road and Beacon Hill Road, Beacon Hill.....	V	13.12.77



# **TRAFFIC SIGNALS — continued**

## **Traffic Control**

Signal No.	Location	Type	Date
1340	Mitchell Road and Copeland Street, Erskineville .....	V	19.9.77
1345	Old Prospect Road and Ettalong Road, Wentworthville .....	V	5.7.77
1346	William Henry Street and Bulwarra Road, Ultimo .....	P	19.12.77
1347	Cronulla Street at Cronulla Station .....	P	14.10.77
1348	Princes Highway and Acacia Street, Kirrawee .....	V	1.6.78
1351	Willandra, Tristram Road and Lee Road, Beacon Hill .....	V	5.4.78
1354	Murdoch Street and Rangers Road, Cremorne .....	V	21.6.78
1356	Eastern Valley Way and Robert Street, Middle Cove .....	V	12.12.77
1358	Hume Highway and Queen Street, Ashfield .....	V	7.3.78
1359	Mowbray Road West and Centennial Avenue, Lane Cove .....	V	12.5.78
1362	Warringah Freeway and Brook Street, Naremburn .....	V	25.10.77
1368	Edgecliff Road and Grosvenor Street, Bondi Junction .....	V	26.1.78
1372	Windang Road and Boronia Avenue, Windang .....	V	16.12.77
1373	Princes Highway (Kingshorne Street) and Junction Street, Nowra .....	V	22.12.77
1374	The Boulevard and Wandella Road, Miranda .....	V	20.6.78
1379	Hannell Street and Lee Wharf Road, Wickham .....	V	29.6.78
1394	Pacific Highway and Provincial Road, Lindfield .....	V	27.4.78
1407	Johnston Street and Collins Street, Annandale .....	V	14.6.78
1409	Lyons Road and Gipps Street, Drummoyne .....	V	23.6.78
1416	Unwins Bridge Road and Mary Street, St. Peters .....	V	20.6.78
1418	Harris Street and Ultimo Road, Ultimo .....	V	24.6.78
1420	Woolwich Road, east of Gladstone Avenue, Woolwich .....	V	11.11.77
1421	Newland Street and Birrell Street, Bondi Junction .....	V	29.5.78
1423	King Street and Sutherland Street, Mascot .....	V	30.12.77
1424	Coward Street and Maloney Street, Mascot .....	V	22.11.77
1437	Wellington Street, north of Bondi Road, Bondi .....	P	2.2.78
1444	Elizabeth Drive and Bigge Street, Liverpool .....	V	24.2.78
1446	Elizabeth Drive and Meadows Road, Mt. Pritchard .....	V	8.6.78
1447	Cabramatta Road West and Orange Grove Road, Cabramatta West .....	V	6.6.78
1448	Campbell Street and Main Street, Blacktown .....	V	13.3.78
1456	Underwood Street and Pomeroy Street, Homebush .....	V	26.4.78
1458	Rawson Street and Northumberland Street, Auburn .....	V	1.12.77
1461	Waterloo Road and Mimosa Street, Greenacre .....	V	14.11.77
1465	Industrial Drive, east of Avon Street, Mayfield .....	P	11.5.78
1476	Merrylands Road and Cumberland Road, Greystanes .....	V	23.11.77
1478	Hamilton Street and The Boulevard, Fairfield .....	V	6.3.78
1482	George Street and Moore Street, Liverpool .....	V	1.3.78
1488	Queen Street and Railway Street, Campbelltown .....	V	8.6.78
1499	Pacific Highway and Bay Street, Tweed Heads .....	V	20.12.77
1513	Hume Highway (Auburn Street) and Goldsmith Street, Goulburn .....	V	3.5.78
1515	Queen Street and Dumaresq Street, Campbelltown .....	V	8.6.78
1529	Princes Highway and Illaroo Road, Bomaderry .....	V	28.11.77
1558	Patrick Street, north of Alpha Street, Blacktown .....	P	23.2.78
1559	Merrylands Road, east of Cumberland Road, Greystanes .....	P	23.11.77
1564	Chapel Road and Brandon Avenue, Bankstown .....	V	22.3.78

## **LOCATION AND DATE SIGNALS RECONSTRUCTED**

### **Traffic Control**

Signal No.	Location	Type	Date
2	Bridge Road and Ross Street, Giebe .....	V	15.11.77
7	Warringah Road and Forest Way, Frenchs Forest .....	V	May 1978
41	Elizabeth Drive, west of Maclean Street, Liverpool .....	P	29.7.77
45	Botany Road and McEvoy Street, Alexandria .....	V	23.12.77
50	Giebe Road and Brunker Road, Adamstown .....	V	1.8.77
53	King Street and Darby Street, Cooks Hill .....	V	13.11.77
73	Hume Highway and Hercules Street, Ashfield .....	V	21.5.78
88	Falcon Street and Miller Street, Crows Nest .....	V	20.4.78
128	The Kingsway, west of Sylva Street, Miranda .....	P	March 1978
137	Botany Road, Buckland Street and Wellington Street, Waterloo .....	V	23.12.77
141	Mitchell Road and Buckland Street, Alexandria .....	V	9.2.78
175	Pacific Highway and Fullers Road, Chatswood .....	V	13.5.78
190	New England Highway, east of Station Street, Lochinvar .....	P	February 1978
211	Cahill Expressway, Sir John Young Crescent and Lincoln Crescent, Woolloomooloo .....	V	9.2.78
226	Epping Road and Wicks Road, North Ryde .....	V	16.2.78
260/1	Day Street and Druff Street, Sydney .....	V	17.8.77

# LOCATION AND DATE SIGNALS RECONSTRUCTED — continued

## Traffic Control

Signal No.	Location	Type	Date
313/2	College Street and Prince Albert Road, Sydney.....	V	16.5.78
354	City Road and Glebe Road, Glebe (NEWC).....	V	9.10.77
374	Taren Point Road, Holt Road and Toorak Avenue, Taren Point.....	V	7.3.78
398	Hume Highway and Sydney Road, Liverpool.....	V	6.8.77
405	Hume Highway, Hoxton Park Road and Copeland Street, Liverpool.....	V	26.5.78
410	Burns Bay Road and Penrose Street, Lane Cove.....	V	13.10.77
476	New South Head Road, Ocean Street and Ocean Avenue, Edgecliff.....	V	24.3.78
493	Pacific Highway and Macquarie Street, Belmont.....	V	23.8.77
502	Great Western Highway and Hawkesbury Road, Mays Hill.....	V	12.10.77
542	Lake Road and West Wallsend Road, Glendale.....	V	October 1977
572	Bunnerong Road and Beauchamp Road, Matraville.....	V	12.8.77
625	Newcastle Road, Croudace Street and Dent Street, Lambton.....	V	June 1978
866	Orange Grove Road and Copeland Street, Liverpool.....	V	25.7.77
876	Pacific Highway and Wallsend Road, Sandgate.....	V	June 1978
912	Newcastle Road and Blue Gum Road, Jesmond.....	V	November 1977
929	Pacific Highway and Ridley Street, Charlestown.....	V	9.9.77
930	Pacific Highway and Smart Street, Charlestown.....	V	27.7.77
1012	Lane Cove Road and Waterloo Road, North Ryde.....	V	16.2.78
1078	Charlestown Road and Hillsborough Road, Charlestown.....	V	11.1.78

# LOCATION AND DATE SIGNALS REMOVED FROM SERVICE

## Traffic Control

Signal No.	Location	Type	Date
22	Hume Highway, east of Queen Street, Ashfield.....	P	7.3.78
91	Pennant Hills Road, southwest of Mt. Pleasant Avenue, Normanhurst.....	P	29.6.77
162	Pittwater Road, south of Waterloo Street, Narrabeen.....	P	21.7.77
167	Pacific Highway, south of Livingston Street, Belmont.....	P	11.5.78
563	Brook Street and Chandos Street, Naremburn.....	P	21.7.77
	Bourke Street, north of Fernleigh Road, Wagga Wagga.....	P	October 1977

## SUMMARY

Traffic Signals	Vehicle Actuated	Pedestrian Actuated	Total
Total constructed, 1977-78.....	102	9	111
Total constructed, 1976-77.....	116	4	120
Total removed from service, 1977-78.....	1	5	6
Total removed from service, 1976-77.....	1	11	12
Net Total, 1977-78.....	101	4	105
Net Total, 1976-77.....	115	-7	108
Total vehicle actuated signals as at 30.6.78.....			1227
Total vehicle actuated signals as at 30.6.77.....			1226
Total pedestrian actuated signals as at 30.6.78.....			250
Total pedestrian actuated signals as at 30.6.77.....			246
Total Traffic Signals, 30.6.78.....			1477
Total Traffic Signals, 30.6.77.....			1372
Total Traffic Signals Reconstructed			
1976-78.....			35
1975-77.....			32



## TEMPORARY SIGNALS AT WORKS IN PROGRESS

Road No.	Location	Date
SH10	Pacific Highway at Martin Bridge, Taree.....	27.7.77
SH10	Pacific Highway between 3.0 km and 15.0 km north of Grafton.....	N.K.
SH17	Newell Highway at Boolooroo Bridge, Camurra.....	15.12.77
SH17	Newell Highway at bridge over Murrumbidgee River, Narrandera...	19.10.77
MR509	Toukley Bridge, Gorokan.....	24.10.77

## NUMBER OF TRAFFIC SIGNALS CO-ORDINATED

(a)	Military Road and Spit Road, Mosman.....	11 sites
(b)	Pacific Highway, Chatswood.....	13 sites
(c)	Canterbury Road, Punchbowl.....	11 sites
(d)	Hume Highway, Ashfield.....	10 sites
(e)	New Canterbury Road, Lewisham.....	6 sites
(f)	Hume Highway, Carramar.....	2 sites
(g)	Pacific Highway, Charlestown.....	5 sites
(h)	Concord Road, Concord West.....	2 sites
(i)	Great Western Highway, Greystanes.....	2 sites
(j)	Hume Highway, Lansdowne.....	3 sites
(k)	Pennant Hills Road, Carlingford.....	2 sites
(l)	Pennant Hills Road, Pennant Hills.....	2 sites
(m)	Epping Road, North Ryde.....	3 sites

### New sites were added to existing systems at:

(a)	King Street, Newtown.....	1 site
(b)	Parramatta Road, Strathfield.....	1 site

## PRIORITY ROADS

The length and location of classified roads and other principal traffic routes which have been converted to priority road conditions are listed below.

Road No.	Location	New or Extension
SH1	Princes Highway - balance of length within Illawarra Division (200 km).....	E
SH1	Princes Highway - entire length in Bega Division.....	N
SH2	Hume Highway, between Woodville Road, Villawood and Cowpasture Road, Leppington.....	E
SH2	Hume Highway - entire length within Illawarra Division (123 km).....	N
SH2	Hume Highway from Victorian Border to Kyeamba/Gundagai Shire Boundary.....	N
SH2	Hume Highway from Uringali Creek (south of Mittagong) to Hillas Creek (south of Gundagai).....	N
SH3	Federal Highway from SH2 to A.C.T. Border.....	N
SH4	Snowy Mountains Highway - entire length in Tumut Shire.....	N
SH4	Snowy Mountains Highway from Tathra to Rules Point (west of Kiandra).....	N
SH5	Great Western Highway between Western Freeway, Prospect and Russell Street, Emu Plains.....	E
SH5	Great Western Highway - entire length within Lithgow Division, except between Mt. Victoria and Lapstone, and also corner Stewart Street and Durham Street, Bathurst.....	N

## PRIORITY ROADS - continued

Road No.	Location	New or Extension
SH6	Mid Western Highway from Bland/Carrathool Shire Boundary to SH21 (179 km).....	N
SH6	Mid Western Highway from Wauchoola/Lynchurst Shire Boundary to Weddin/Bland Shire Boundary (153 km).....	N
SH6	Mid Western Highway - entire length in Bland Shire.....	N
SH6	Mid Western Highway - entire length in Lithgow Division.....	N
SH7	Mitchell Highway from Carbone/Evans Shire Boundary to Timbregongle/Warren Shire Boundary (excluding length formerly in Molong Shire) (225 km).....	N
SH7	Mitchell Highway - entire length in Lithgow Division.....	N
SH7	Mitchell Highway from 74.7 km south of Nyngan to 136.7 km north of Bourke (415 km).....	N
SH8	Barrier Highway from SH7 at Nyngan to Cobar/Central Darling Shire Boundary (278 km).....	N
SH9	New England Highway from SH10 at Hexham to Newcastle Divisional Boundary (121 km).....	N
SH9	New England Highway - entire length within Tamworth Division.....	N
SH10	Pacific Highway from Parkway Road, Swansea to MR316 at Newcastle.....	E
SH10	Pacific Highway from SH9 at Hexham to Newcastle Divisional Boundary (116 km).....	N
SH10	Pacific Highway from Bellingen/Nambucca Shire Boundary to Queensland Border (366 km).....	N
SH10	Pacific Highway from Wang Wauk River to Nambucca/Bellingen Shire Boundary (236 km).....	N
SH11	Oxley Highway - entire length within Gilgandra Shire (86 km).....	N
SH11	Oxley Highway from Hollingworth Street, Port Macquarie to Hastings/Walcha Shire Boundary (109 km).....	N
SH11	Oxley Highway - entire length within Tamworth Division.....	N
SH11	Oxley Highway from SH7 at Nevertire to Warren/Gilgandra Shire Boundary (69 km).....	N
SH12	Gwydir Highway from the Junction of SH10 at Grafton to Nymboida/Severn Shire Boundary (71 km).....	N
SH12	Gwydir Highway from Walgett/Boomi Shire Boundary to TR68 at Collarenebri (17 km).....	N
SH13	Woodville Road between Hume Highway, Villawood and Parramatta Road, Granville.....	N
SH13/MR184	Church Street/Windsor Road between Market Street, Parramatta and Macquarie Street, Windsor.....	N
SH13	Pennant Hills Road between Carlingford Road, Carlingford and Pacific Highway, Pearce's Corner.....	N
SH14	Sturt Highway from Narrandera/Murrumbidgee Shire Boundary to Wakool/Batraland Shire Boundary (262 km).....	N

**PRIORITY ROADS — continued**

Road No.	Location	New or Extension
SH14	Sturt Highway from junction with SH2 in Kyeamba Shire to Narrandera/Murrumbidgee Shire Boundary.....	N
SH15	Barton Highway from SH2 to A.C.T. Border.....	N
SH17	Newell Highway from Victorian Border to Jerilderie/Urana Shire Boundary (96 km).....	N
SH17	Newell Highway from Gilgandra/Coonabarabran Shire Boundary to Weddin/Bland Shire Boundary (281 km).....	N
SH17	Newell Highway from the Urana/Jerilderie Shire Boundary to junction with SH6 in Bland Shire.....	N
SH17	Newell Highway — entire length within Tamworth Division.....	N
SH18	Castlereagh Highway — entire length within Gilgandra Shire (43 km).....	N
SH18	Castlereagh Highway from Gilgandra/Coonamble Shire Boundary to junction with MR437 (259 km).....	N
SH19	Monaro Highway from A.C.T. Border to the Victorian Border.....	N
SH20	Riverina Highway from Berrigan/Corowa Shire Boundary to Finley (41 km).....	N
SH20	Riverina Highway from Finley to SH21 (57 km).....	N
SH20	Riverina Highway from Victorian Border to Corowa/Berrigan Shire Boundary.....	N
SH21	Cobb Highway from Victorian Border to Lachlan River (275 km).....	N
SH25	Illawarra Highway — entire length within Illawarra Division (62 km).....	N
TR51	From A.C.T. Border in Queanbeyan to Clyde Mountain (east of Braidwood)...	N
TR51	From Batemans Bay to top of Clyde Mountain.....	N
TR52	From A.C.T. Border in Queanbeyan to TR54 at Crookwell.....	N
TR54	South from SH5 to Rocket Street, Bathurst.....	N
TR54	From SH2 to Goulburn City Boundary, thence Mulwaree/Crookwell Shire Boundary to Crookwell.....	N
TR55	Entire length in City of Lithgow Council area.....	N
TR56	From SH2 (south of Yass) to Goodradigbee/Boorowa Shire Boundary.....	N
TR57	From junction with SH7 at Nyngan to 19.47 km south.....	N
TR61	From junction with MR410 to terminal in Cobar (64 km).....	N
TR68	From 2.72 km south of Bourke to 7.5 km east of Bourke, from 6.7 km east of Brewarrina to 8.63 km north of Brewarrina, and from 0.67 km south of Collarenebri to 0.71 km north of Collarenebri.....	N
TR70	From Coolabah to Goodooga (250 km).....	N
TR78	From Burrangong/Waugoola Shire Boundary to Young Municipal Northern Boundary, thence Young Municipal Southern Boundary to Burrangong/Harden Shire Boundary.....	N
TR79	From SH2 to Goulburn City Boundary....	N

**PRIORITY ROADS — continued**

Road No.	Location	New or Extension
TR82	From MR604 at Newcastle to SH23 at Jesmond.....	N
TR84	From SH2 to Goodradigbee/Harden Shire Boundary.....	N
TR93	From Bombala to Victorian Border.....	N
TR95	From SH2 at Picton to SH1 at North Wollongong.....	N
MR108	From MR316 at Mayfield to Shoal Bay ..	N
MR111	From SH10 near Khappinghat Creek to Newcastle Divisional Boundary (61 km).....	N
MR127	From junction of TR68 to Walgett (6 km).....	N
MR129	From Teridger Creek to Nedgera Creek (44 km).....	N
MR154	Northern Road/Bringelly Road/Parker Street/Richmond Road/Windsor Road from Narellan Road, Narellan to Blacktown Road, South Windsor.....	N
MR154	The Northern Road from Old Hume Highway, Narellan to Bringelly Road, Bringelly.....	N
MR155	Mulgoa Road between Great Western Highway, Penrith and Gibbs Street, Regentville.....	N
MR158	Marsden Road between Victoria Road, Ermington and Pennant Hills Road, Carlingford.....	N
MR161	Galston Road between Pacific Highway, Asquith and Old North Road, Dural.....	N
MR170	Botany Road from Banksmeadow to Greens Square.....	E
MR174	Pittwater Road/McCarrs Creek from Barrenjoey Road, Mona Vale to Mona Vale Road, Terrey Hills.....	N
MR178	Camden, Campbelltown Road/Old Hume Highway/Argyle Street, from Kenny Hill to Camden.....	N
MR179	From MR178 near Campbelltown to TR95 at Maldon.....	N
MR184	Entire length in Lithgow Division.....	N
MR185	Lawrence Hargrave Drive — from SH1 near Helensburgh to SH1 Bulli Pass.....	N
MR186	From junction of SH1 at West Wollongong to TR95 near Wilton.....	N
MR188	From King Street, Newcastle to MR223 at Waratah.....	N
MR190	St. Hilliers Road between Rawson Street, Auburn and Parramatta Road, Silverwater.....	N
MR190	Boorea Street/Olympic Drive/Bridge Street between Rawson Street, Auburn and Vaughan Street, Lidcombe.....	N
MR193	Erskineville Road/Swansea Street/Copeland Street from King Street, Newtown to Mitchell Road, Alexandria.....	N
MR202	From junction with SH11 to MR129 (86 km).....	N
MR205	From SH18 to 23.6 km east.....	N
MR217	From Thomas Street, Wallsend to SH23 at Birmingham Gardens.....	N
MR223	From MR604 to the MR223 branch at Newcastle.....	N
MR228	Through Hermitdale (1.7 km).....	N
MR245	Entire length within Blayney Shire (13 km).....	N



PRIORITY ROADS — continued

Road No.	Location	New or Extension
MR246	Entire length within Blayney Shire (27 km).....	N
MR256	From SH2 to Goulburn City/Mulwaree Shire Boundary.....	N
MR259	Druitt Lane, Camden to The Oaks.....	N
MR261	From SH25 near Moss Vale to SH1 at Bomaderry.....	N
MR262	From SH25 at Albion Park to SH1, south of Albion Park Railway Station.....	N
MR264	From SH25 near Robertson to SH1 at Kiama.....	N
MR266	From MR264 at Jamberoo to SH25, Albion Park.....	N
MR267	From SH1 at Tamerong to Huskisson.....	N
MR270	From TR51 to the Yarrowlumla/Tallaganda Shire Boundary.....	N
MR286	From SH1 to Kosciusko National Park Boundary.....	N
MR293	Shoalhaven Heads Road from SH1 at Bomaderry to Coolangatta.....	N
MR295	From SH1 at Unanderra to Five Islands Road, Port Kembla.....	N
MR312	From SH1 at the turnoff to Huskisson to MR267 near Huskisson.....	N
MR317	Fitzgerald Avenue from Bunnerong Road to Malabar Road, Maroubra.....	N
MR329	From SH12 to 7.49 km south.....	N
MR333	From SH11 to MR202 (178 km).....	N
MR347	From SH11 to 6.44 km south.....	N
MR373	Carlingford Road between Pennant Hills Road, Carlingford and Beecroft Road, Epping.....	N
MR383	From MR129 to 11.44 km north.....	N
MR390	Entire length within Blayney Shire (21 km).....	N
MR404	From SH7 to 8.05 km north and through Fordes Bridge.....	N
MR407	From SH8 to Developmental Road No. 1303 (7 km).....	N
MR411	From Lachlan Boundary to 11 km east..	N
MR419	Through Canbelego and Nymagee....	N
MR421	From MR407 to 19.4 km north.....	N
MR426	From SH18 to Lightning Ridge.....	N
MR506	From SH10 near Bundabah Creek to Tea Gardens.....	N
MR512	Heathcote Road from Princes Highway, Heathcote to Sandy Point.....	N
MR516	Entire length in Lithgow Division, except for intersections of Mort Street and Lithgow Street, and Lithgow Street and Main Street, Lithgow.....	N
MR522	From SH1 near Shellharbour Railway Station to MR295, Wollongong.....	N
MR528	Dacey Avenue/Lachlan Street/McEvoy Street/Euston Road from Anzac Parade, Moore Park to Campbell Road, St. Peters.....	N
MR529	Forest Way from Mona Vale Road, Terrey Hills to Warringah Road, Frenchs Forest.....	N
MR530	Oliver Street/Adams Street/Griffin Street from Pittwater Road, Queenscliff to The Strand, Dee Why.....	N
MR534	Cabramatta Road between Hume Highway, Cabramatta and Elizabeth Drive, Bonnyrigg.....	N
MR537/ SR2085	Richmond Road between Main Street, Blacktown and Bourke Street, Richmond.....	N

PRIORITY ROADS — continued

Road No.	Location	New or Extension
MR537	Rooty Hill Road between Great Western Highway, Eastern Creek and Richmond Road, Plumpton.....	N
MR571	From SH1 near Geringong to the bridge over Crooked River, Geroa.....	N
MR574	Kissing Point Road between Bettlington Road, Dundas and Marsden Road, Eastwood.....	N
MR584	From Queanbeyan City/Yarrowlumla Shire Boundary to A.C.T. Border.....	N
MR593	Boundary Street from Oxford Street, Paddington to MacLachlan Avenue, Darlinghurst.....	E
MR602	From junction of Gladstone Avenue and Princes Highway, to MR568 at Fig Tree.....	N
MR604	From SH10, Newcastle to TR82, Adamstown Heights.....	N
MR610	From MR177 at Appin to TR95 near Wilton.....	N
MR611	From SH1 at Oak Flats to MR522 at Warilla.....	N
MR613	Military Road from MR295, Port Kembla to SH1 at Kembla Grange.....	N
MR616	Denison Street/Beauchamp Road from Wentworth Avenue, Pagewood to Botany Road, Banksmeadow.....	N
DR196	From SH1 south of Wandrawandian Creek to Sussex Inlet.....	N
DR1303	From MR407 to C.S.A. Copper Mine (4 km).....	N
SR2005	Mitchell Road/Henderson Road/Raglan Street from Princes Highway, St. Peters to Elizabeth Street, Waterloo.	N
SR2025	Kentwell Road/Allambie Road from Condamine Street, North Manly to Warringah Road, Beacon Hill.....	N
SR2028	Carlton Crescent from Hume Highway to Smith Street, Summer Hill.....	N
SR2033	Ryde Road from Pittwater Road, Gladesville to Gladesville Road, Hunters Hill.....	N
SR2042	Johnston Street between Parramatta Road, Stanmore and The Crescent, Rozelle.....	N
SR2056/ SR2046	Wattle Street/Dobroyd Parade/Lilyfield Road/Brennan Street/Railway Parade from Parramatta Road, Haberfield to Balmain Road, Lilyfield.....	N
SR2057	Church Street between Bachell Street and Olympic Drive, Lidcombe.....	N
SR2064	Elizabeth Street between Hume Highway and Frederick Street, Ashfield.....	N
SR2065	Norton Street/Victoria Road between Milton Street, Croydon and Hume Highway, Ashfield.....	N
SR2069	Rawson Street between Parramatta Road, Clyde and St. Hilliers Road, Auburn.....	N
SR2070	River Road/Bridge Street/Penrose Street from Shirley Road, Crows Nest to Burns Bay Road, Lane Cove.....	N
SR2071	Orange Grove Road between Cabramatta Road, Cabramatta West and Copeland Street, Liverpool.....	N
SR2073/ SR2042	Ross Street/Minogue Crescent/The Crescent from Parramatta Road, Forest Lodge to Victoria Road, Rozelle....	N

PRIORITY ROADS — continued

Road No.	Location	New or Extension
SR2075	Klara Road from The Boulevard to President Avenue, Miranda.....	E
SR2077/ MR594	Wilson Street/Abercrombie Street/ Wattle Street from King Street, New- town to Pyrmont Bridge Road, Pyr- mont.....	N
SR2084	Wall Park Avenue between Black- town Road and Seven Hills Road, Seven Hills.....	N
SR2085	Blacktown Road/Main Street be- tween Great Western Highway, Pros- pect and Sunnyholt Road, Blacktown..	N
UNCL	Abbott Road/Pitt Road from Harbord Road, Brookvale and Griffin Road, North Curl Curl.....	N
UNCL	Acacia Street between Veterans Pa- rade and Edgecliff Boulevard, Col- laroy Plateau.....	N
UNCL	Annandale Street from Pritchard Street, Annandale to Parramatta Road, Stanmore.....	N
UNCL	Arden Street from Malabar Road, Coogee to McPherson Street, Bronte....	N
UNCL	Bachel Street/Bimie Avenue between Church Street and Parramatta Road, Lidcombe.....	N
UNCL	Ballast Point Road from Rowntree Street to Yeend Street, Balmain.....	N
UNCL	Bay Street from Parramatta Road to Wentworth Park Road, Glebe.....	N
UNCL	Beames Avenue between Carlisle Avenue, Mt Druitt and Rooty Hill Road, Rooty Hill.....	N
UNCL	Beattie Street from Darling Street to Darling Street (Loyalty Square), Bal- main.....	N
UNCL	Belmore Avenue between Luxford Road, Mt. Druitt and Woodstock Avenue, Hebersham.....	N
UNCL	Birchgrove Road from Glossop Street, to Macquarie Terrace, Balmain.....	N
UNCL	Birrell Street from York Road, Centen- nial Park to Carrington Street, Waver- ley.....	N
UNCL	Booth Street from Alfred Street, Annan- dale to Pyrmont Bridge Road.....	N
UNCL	Brent Street between Henley Marine Drive and Lyons Road, Russell Lea.....	N
UNCL	Briens Road between Windsor Road, Northmead and Old Windsor Road, Wentworthville.....	N
UNCL	Carrington Street from Birrell Street, Waverley to Dudley Street, Coogee.....	N
UNCL	Catherine Street from Parramatta Road, Petersham to Lilyfield Road, Lilyfield.....	N
UNCL	Charles Street from William Street to Lilyfield Road, Leichhardt.....	N
UNCL	Civic Road/Station Road between Queen Street and Parramatta Road, Auburn.....	N
UNCL	Collins Street from Johnston Street to Trafalgar Street, Annandale.....	N
UNCL	Condamine Street from White Street, Balgowah to Balgowah Heights.....	N
UNCL	Copeland Road/Woodstock Avenue between Bougainville Road, Let- tbridge Park, and Rooty Hill Road, Plumpton.....	N

PRIORITY ROADS — continued

Road No.	Location	New or Extension
UNCL	Crane Street/Majors Bay Road/ Norman Street/Nullawarra Avenue, between Marceau Drive, Concord Road and Hospital Road, Concord West.....	N
UNCL	Curtis Road from Darling Street to Rowntree Street, Balmain.....	N
UNCL	Davis Road between Quakers Road, Marayong and Blacktown Road, Blacktown.....	N
UNCL	Denison Street from Darling Street to Lilyfield Road, Rozelle.....	N
UNCL	Derbyshire Road from William Street to Moore Street West, Leichhardt.....	N
UNCL	Doonside Road/Hill End Road be- tween Great Western Highway, East- ern Creek and Blacktown Road, Doonside.....	N
UNCL	Douglas Road/Quakers Road be- tween Lalor Road, Quakers Hill and Railway Road, Marayong.....	N
UNCL	Elswick Street from Parramatta Road to Marian Street, Leichhardt.....	N
UNCL	Evans Street from Denison Street to Beattie Street, Rozelle.....	N
UNCL	Fern Street/Mount Street from Albion Street, Bronte to Rainbow Street, Coogee.....	N
UNCL	Fendell Street between Rawson Road and Boundary Road, South Granville.....	N
UNCL	Fitzwilliam Road/Station Road be- tween Old Windsor Road, Old Toon- gabbie and Seven Hills Road, Lalor Park.....	N
UNCL	Flood Street from Parramatta Road to Marian Street, Leichhardt.....	N
UNCL	Forest Road from Henry Lawson Drive, Peakhurst to Lugarno.....	E
UNCL	Glossop Street from Elliot Street to Birchgrove Road, Balmain.....	N
UNCL	Glebe Point Road, from Parramatta Road to Eglinton Road, Glebe.....	N
UNCL	Gordon Street from Lilyfield Road to Victoria Road, Rozelle.....	N
UNCL	Grosvenor Street/Bronte Road/Albion Street/Frenchmans Road/Cowper Street from Edgecliff Road, Bondi Junction to Alison Road, Randwick.....	N
UNCL	Grove Street from Lilyfield Road to Balmain Road, Lilyfield.....	N
UNCL	Guildford Road/Fowler Road/ McCredie Road, between Blaxcell Road, South Granville and Sturt Street, Guildford.....	N
UNCL	Harbord Road between Pittwater Road, Brookvale and Lawrence Street, Queenscliff.....	N
UNCL	Henley Marine Drive between Timbrell Drive and Brent Street, Russell Lea.....	N
UNCL	Jamison Road between Mulgoa Road, Penrith and Bringelly Road, Kingswood.....	N
UNCL	Jersey Road between Rooty Hill Road, Plumpton and Copeland Road, Emer- ton.....	N
UNCL	John Street between Parramatta Road and Church Street, Lidcombe.....	N



PRIORITY ROADS — continued

Road No.	Location	New or Extension
UNCL	Junction Street from Pymont Bridge Road to St. Johns Road, Forest Lodge..	N
UNCL	Kissing Point Road between Stewart Street, Dundas and Victoria Road, Ermington.....	N
UNCL	Lauderdale Avenue/Rosedale Street, from West Esplanade, Manly to Hill Street, Fairlight.....	N
UNCL	Lilyfield Road from Balmain Road, Lilyfield to Victoria Road, Rozelle .....	N
UNCL	Lyons Road West between Great North Road and Baysview Road, Five Dock.....	N
UNCL	Lytton Street between Richmond Road and Kildare Street, Blacktown .....	N
UNCL	Macquarie Terrace from Birchgrove Road to Rowntree Street, Balmain.....	N
UNCL	Malabar Road from Rainbow Street, Coogee to Beauchamp Road, Maroubra.....	N
UNCL	Mallett Street from Pymont Bridge Road to Parramatta Road, Camperdown.....	N
UNCL	Maroubra Road/Heffron Road/Page Street, from Marine Parade, Maroubra to Wentworth Avenue, Pagewood.....	N
UNCL	Mitchell Street from Catherine Street to Wentworth Park Road, Glebe.....	N
UNCL	Montague Street from Darling Street to Beattie Street, Balmain .....	N
UNCL	Moore Street, from Balmain Road to White Street, Annandale.....	N
UNCL	Mullens Street from Beattie Street to Robert Street, Balmain .....	N
UNCL	Newton Road between Main Street and Lancaster Street, Blacktown.....	N
UNCL	Norton Street from Parramatta Road to Lilyfield Road, Leichhardt.....	N
UNCL	Old Windsor Road between Hawkesbury Road, Westmead and Seven Hills Road, Seven Hills.....	N
UNCL	Park Road between South Parade, Auburn and Amy Street, Regents Park.	N
UNCL	Railway Parade/Memorial Drive/Clyde Street between Bold Street, Granville and Rawson Road, South Granville.....	N
UNCL	Rawson Road between Ferndeil Street, South Granville and Woodville Road, Guildford .....	N
UNCL	Reservoir Road between Great Western Highway, Prospect and Bungarabee Road, Blacktown .....	N

PRIORITY ROADS — continued

Road No.	Location	New or Extension
UNCL	Riley Street from Cathedral Street, Woolloomooloo to Devonshire Street, Surry Hills.....	N
UNCL	Robert Street from Victoria Road to Buchanan Street, Rozelle.....	N
UNCL	Rowntree Street from Darling Street to Ballast Point Road, Balmain .....	N
UNCL	Sackville Street between Sunnyholt Road, Blacktown and Lucas Road, Lalor Park.....	N
UNCL	St. Johns Road from Junction Street, Forest Lodge to Wentworth Park Road, Glebe.....	N
UNCL	Spencer Street/Luxford Road between Rooty Hill Road, Plumpton and Paimyra Avenue, Lethbridge Park.....	N
UNCL	Telopea Street between Veterans Parade and Edgecliff Boulevard, Colaroy Plateau .....	N
UNCL	Terry Street from Victoria Road to Elliott Street, Rozelle.....	N
UNCL	Turner Street/Northcott Road/Johnson Avenue between Sunny Holt Road, Blacktown and Seven Hills Road, Seven Hills.....	N
UNCL	Wellington Street from Terry Street to Victoria Road, Rozelle.....	N
UNCL	Wellington Road between Clyde Street, South Granville and Park Road, Auburn.....	N
UNCL	Wentworth Road between Hume Highway, Burwood and Parramatta Road, Strathfield.....	N
UNCL	Wentworth Avenue between Fitzwilliam Road, Toongabbie and Bridge Road, Wentworthville .....	N
UNCL	Wentworth Park Road/William Henry Street/Pier Street/Goulburn Street, from Bridge Road, Glebe to Crown Street, East Sydney.....	N
UNCL	Wentworth Park Road from Bay Street to Pymont Bridge Road, Glebe.....	N
UNCL	Wheeler Street from Sackville Street to Northcott Road, Lalor Park.....	N
UNCL	Wigram Road between Booth Street, Annandale and Glebe Point Road, Glebe .....	N
UNCL	William Street from Elswick Street to Derbyshire Street, Leichhardt .....	N
UNCL	William Street between Woodville Road and Memorial Drive, Granville....	N
UNCL	Wise Street from Darling Street to Terry Street, Balmain.....	N

# CLEARWAYS

## New clearways — both morning and evening peak

- (a) SH13 Woodville Road, between Hume Highway, Villawood and Parramatta Road, Granville (7.7 km).
- (b) MR162 Lane Cove Road, between Blaxland Road, Ryde and Epping Road, North Ryde (3.3 km).
- (c) MR139 Blaxland Road, between Lane Cove Road, Ryde and Epping Road, Epping (5.2 km).
- (d) MR344 Wentworth Avenue, from Botany Road to Dransfield Avenue, Mascot (1 km).

## Extension of existing clearways

- (a) SH10 Pacific Highway, from Pearces Corner to Bobbin Head Road, Pymble (southbound morning peak).
- (b) SH10 Pacific Highway, from Pearces Corner to Bobbin Head Road, Pymble (northbound evening peak).

# SPEED ZONES

Particulars	New Speed Zone (km)	Extension of Speed Zone (km)
Total 60 km/h speed zone, 1977/78 .....	36	52
Total 80 km/h speed zone, 1977/78 .....	37	21
Total 100 km/h speed zone, 1977/78 .....	73	31
Total 110 km/h speed zone, 1977/78 .....	21	—

# LINEMARKING

The length of longitudinal linemarking and the area of other marking undertaken during the year.

Particulars	Unit	New	Remarking
Longitudinal lines marked, 1977/78 .....	km	959	44,930
Transverse lines and zebra crossings, and symbols marked, 1977/78 .....	m <sup>2</sup>	32,541	105,329

# SIGNS

The number of new and replacement signs erected during the year are listed below.

Particulars	New	Replacement
Total number of signs erected, 1977/78 .....	25,825	33,403



# WIDENING OF METROPOLITAN MAIN ROADS

During the year ending 30 June 1978 —

1. Forty-six plans (in 66 sheets) were prepared and lodged at the Registrar General's Department, preparatory to acquisition for road widening purposes within the Metropolitan area.

2. One realignment scheme, involving 1.05 kilometres of road was gazetted during the year, together with 37 resumptions of land necessary to implement widening schemes.

3. The principal routes in the Metropolitan area (excluding Freeways), on which property was being acquired during the year, are as follows:

SH2 Hume Highway. Improvement of Intersection with Hector Street, Bass Hill. Municipality of Bankstown.

SH5 Great Western Highway. Between Millen Street and French Street. City of Penrith.

SH5 Great Western Highway. Intersection with SH2 — Hume Highway. Municipality of Ashfield.

MR160 Old Northern Road, Dural. Shire of Hornsby.

MR162 Ryde Road and Mona Vale Road, Ryde to St. Ives. Municipalities of Ryde and Ku-ring-gai.

MR164 Military Road. Laycock Street to Wycombe Road. Municipality of North Sydney.

MR167 Canterbury Road. Intersection with SR2061 — Fairford Road. Municipality of Bankstown.

MR169 Bay Street, between Moate Avenue and The Grand Parade. Municipality of Rockdale.

MR172 Oxford Street. Bondi Junction By-Pass. Municipality of Woollahra.

MR173 New South Head Road. Intersection with Ocean Street. Municipality of Woollahra.

MR190 St. Hilliers Road. Between Hall Street and Parramatta Road (SH5). Municipality of Auburn.

MR190 Joseph Street. Between Georges Avenue and New Street. Municipality of Auburn.

MR190 Rookwood Road. Between Lewis Street and McMillan Street. Municipality of Bankstown.

MR309 Rydalmere Avenue. Intersections with MR165 — Victoria Road and MR574 — Kissing Point Road. City of Parramatta.

MR309 Aston Street. Between Unwin Street and Hassall Street. City of Parramatta.

MR315 Punchbowl Road. Between King Georges Road and Coronation Parade. Municipality of Strathfield.

MR315 King Georges Road. Between Lakemba Street and Roselands Avenue. Municipality of Canterbury.

MR315 King Georges Road. Between Punchbowl Road and Lakemba Street. Municipality of Canterbury.

MR318 Marlborough Road and Richmond Road. Flemington. Municipality of Strathfield.

MR549 Milton Street and extension of SR2056 — Frederick Street to SH2, Hume Highway. Municipality of Ashfield.

MR608 Copeland Street. City of Liverpool.

SR2061 Davies Road, Padstow. Municipality of Bankstown.

SR2081 Rutledge Street and First Avenue. Railway Overbridge, Eastwood. Municipality of Ryde.

CR5015 Briens Road. Between Windsor Road and Kleins Road. City of Parramatta.

CR5016 Dilke Road, Padstow. Municipality of Bankstown.

# BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1978

## SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS

TABLE 1 — ROAD KILOMETRES

Nature of Work	Free-ways	State H'ways	Trunk Roads	Main Roads	Second. Roads	Tourist Roads	Devel. Roads	Unclass. Roads	All Rds. Sub-Tot.
1. Initial Surfacing									
A. Prime.....	0.00	0.00	2.38	3.50	0.00	0.00	0.00	0.00	5.88
B. Primer Seal .....	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	1.35
C. Sprayed Seal.....	0.00	2.95	41.32	70.44	0.00	0.84	0.00	0.00	115.55
D. Enrichment Reseal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	1.05
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total .....	0.00	4.30	43.70	74.99	0.00	0.84	0.00	0.00	123.83
2. Surfacing Lengths Primed Before Year									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Sprayed Seal.....	0.00	11.61	25.60	14.01	0.00	0.00	0.00	0.00	51.22
D. Enrichment Reseal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.27
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total .....	0.00	11.88	25.60	14.01	0.00	0.00	0.00	0.00	51.49
3. Restoration After Widening/Strengthening									
A. Prime.....	0.00	5.03	0.00	0.00	0.00	0.00	0.00	0.00	5.03
B. Primer Seal .....	0.00	15.08	1.50	0.92	0.00	0.00	0.00	0.00	17.50
C. Sprayed Seal.....	0.00	204.30	40.03	56.96	0.85	0.00	0.00	0.00	302.14
D. Enrichment Reseal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	0.00	7.17	0.16	13.18	5.00	0.00	0.00	0.79	26.30
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total .....	0.00	231.58	41.69	71.06	5.85	0.00	0.00	0.79	350.97
4. Restoration after Adding Lanes									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal .....	0.00	2.48	0.00	0.00	0.00	0.00	0.00	0.00	2.48
C. Sprayed Seal.....	0.00	6.77	3.15	1.58	2.17	0.00	0.00	0.00	13.67
D. Enrichment Reseal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	0.00	6.60	0.00	8.56	0.88	0.00	0.00	0.00	16.04
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35
Sub Total .....	0.00	15.85	3.15	10.49	3.05	0.00	0.00	0.00	32.54
5. Restoration After New Alignment/Grade									
A. Prime.....	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.42
B. Primer Seal .....	0.00	16.61	6.91	0.00	0.00	0.00	0.00	0.00	17.52
C. Sprayed Seal.....	0.00	68.78	38.92	37.32	0.00	0.95	0.00	0.00	145.97
D. Enrichment Reseal .....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	0.46	25.38	1.81	1.17	0.00	0.00	0.00	0.00	28.82
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total .....	0.46	115.19	41.64	38.49	0.00	0.95	0.00	0.00	196.73
6. Maintenance Resurfacing									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal .....	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.44
C. Sprayed Seal.....	0.00	853.31	320.20	479.09	3.95	20.38	0.00	6.46	1683.39
D. Enrichment Reseal .....	0.00	35.85	14.21	34.05	0.00	0.00	0.00	0.00	84.11
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	12.86	56.72	2.52	77.83	12.52	0.64	0.00	0.49	163.58
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.51
Sub Total .....	12.86	945.88	336.93	591.92	16.47	21.02	0.00	6.95	1932.03
7. Surfacing Sub Totals									
A. Prime.....	0.00	9.45	2.38	3.50	0.00	0.00	0.00	0.00	15.33
B. Primer Seal .....	0.00	35.52	2.41	1.36	0.00	0.00	0.00	0.00	39.29
C. Sprayed Seal.....	0.00	1147.72	469.22	659.40	6.97	22.17	0.00	6.46	2311.94
D. Enrichment Reseal .....	0.00	35.85	14.21	34.05	0.00	0.00	0.00	0.00	84.11
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder) .....	13.32	96.14	4.49	101.79	18.40	0.64	0.00	1.28	236.06
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.86
Total	13.32	1324.68	492.71	800.96	25.37	22.81	0.00	7.74	2687.59



# BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1978

## SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS

TABLE 2 — LANE KILOMETRES

Nature of Work	Free-ways	State H'ways	Trunk Roads	Main Roads	Second. Roads	Tourist Roads	Devel. Roads	Unclass. Roads	All Rds. Sub-Tot.
1. Initial Surfacing									
A. Prime.....	0.00	0.00	4.76	7.00	0.00	0.00	0.00	0.00	11.76
B. Primer Seal.....	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	2.70
C. Sprayed Seal.....	0.00	5.90	82.64	139.11	0.00	1.68	0.00	0.00	229.33
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00	6.30
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total.....	0.00	8.60	87.40	152.41	0.00	1.68	0.00	0.00	250.09
2. Surfacing Lengths Primed Before Year									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Sprayed Seal.....	0.00	23.22	51.20	28.02	0.00	0.00	0.00	0.00	102.44
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.54
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total.....	0.00	23.76	51.20	28.02	0.00	0.00	0.00	0.00	102.98
3. Restoration After Widening/Strengthening									
A. Prime.....	0.00	10.06	0.00	0.00	0.00	0.00	0.00	0.00	10.06
B. Primer Seal.....	0.00	32.79	3.00	1.84	0.00	0.00	0.00	0.00	37.63
C. Sprayed Seal.....	0.00	408.51	80.06	111.39	2.55	0.00	0.00	0.00	602.51
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	0.00	15.35	0.80	40.46	16.40	0.00	0.00	3.16	76.17
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total.....	0.00	466.71	83.86	153.69	18.95	0.00	0.00	3.16	726.37
4. Restoration after Adding Lanes									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal.....	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	8.30
C. Sprayed Seal.....	0.00	10.84	11.72	3.92	4.34	0.00	0.00	0.00	30.82
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	0.00	24.00	0.00	24.83	1.97	0.00	0.00	0.00	50.80
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	1.05
Sub Total.....	0.00	43.14	11.72	29.80	6.31	0.00	0.00	0.00	90.97
5. Restoration After New Alignment/Grade									
A. Prime.....	0.00	8.84	0.00	0.00	0.00	0.00	0.00	0.00	8.84
B. Primer Seal.....	0.00	33.66	1.82	0.00	0.00	0.00	0.00	0.00	35.48
C. Sprayed Seal.....	0.00	145.40	77.84	76.23	0.00	1.90	0.00	0.00	301.37
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	1.84	65.70	9.06	6.58	0.00	0.00	0.00	0.00	83.18
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total.....	1.84	253.60	88.72	82.81	0.00	1.90	0.00	0.00	428.87
6. Maintenance Resurfacing									
A. Prime.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal.....	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.88
C. Sprayed Seal.....	0.00	1726.49	640.40	955.39	10.40	40.76	0.00	12.92	3386.36
D. Enrichment Reseal.....	0.00	71.25	28.42	68.10	0.00	0.00	0.00	0.00	167.77
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	49.20	187.58	7.32	212.54	33.19	1.28	0.00	1.96	493.07
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00	2.04
Sub Total.....	49.20	1985.32	676.14	1238.95	43.59	42.04	0.00	14.88	4050.12
7. Surfacing Sub Totals									
A. Prime.....	0.00	18.90	4.76	7.00	0.00	0.00	0.00	0.00	30.66
B. Primer Seal.....	0.00	77.45	4.82	2.72	0.00	0.00	0.00	0.00	84.99
C. Sprayed Seal.....	0.00	2320.36	943.86	1314.06	17.29	44.34	0.00	12.92	4652.83
D. Enrichment Reseal.....	0.00	71.25	28.42	68.10	0.00	0.00	0.00	0.00	167.77
E. Slurry Seal.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder).....	51.04	293.17	17.18	290.71	51.56	1.28	0.00	5.12	710.06
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00	3.09
Total.....	51.04	2781.13	999.04	1685.68	68.85	45.62	0.00	18.04	5649.40

**BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1978**  
**SCHEDULED ACCORDING TO WORK BY DEPARTMENT AND COUNCILS**  
**TABLE 1 — ROAD KILOMETRES**

		Department		Council	
		Direct Control	Contract	Direct Control	Contract
1. Initial Surfacing					
A. Prime.....	0.00	0.00	0.00	5.88	
B. Primer Seal.....	1.35	0.00	0.00	0.00	
C. Sprayed Seal.....	2.95	0.00	4.46	108.14	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	0.00	0.00	0.00	1.05	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	4.30	0.00	4.46	115.07	
2. Surfacing Lengths Primed Before Year					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	0.00	0.00	0.00	0.00	
C. Sprayed Seal.....	5.32	0.43	2.99	42.48	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	0.27	0.00	0.00	0.00	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	5.59	0.43	2.99	42.48	
3. Restoration After Widening/Strengthening					
A. Prime.....	5.03	0.00	0.00	0.00	
B. Primer Seal.....	6.76	6.72	0.00	4.02	
C. Sprayed Seal.....	180.08	3.21	32.82	86.03	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	7.58	0.09	8.92	9.71	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	199.45	10.02	41.74	99.76	
4. Restoration After Adding Lanes					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	1.62	0.00	0.00	0.86	
C. Sprayed Seal.....	5.78	0.99	1.58	5.32	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	10.83	1.21	0.98	3.02	
G. Plant Mix (Tar Binder).....	0.35	0.00	0.00	0.00	
Sub Total.....	18.58	2.20	2.56	9.20	
5. Restoration After New Alignment/Grade					
A. Prime.....	4.42	0.00	0.00	0.00	
B. Primer Seal.....	14.44	0.35	0.00	2.73	
C. Sprayed Seal.....	50.43	7.86	10.73	76.95	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	17.28	9.51	0.91	1.12	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	86.57	17.72	11.64	80.80	
6. Maintenance Resurfacing					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	0.00	0.00	0.00	0.44	
C. Sprayed Seal.....	782.98	91.89	111.28	697.24	
D. Enrichment Reseal.....	35.85	0.00	12.79	35.47	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	122.34	0.33	12.39	28.52	
G. Plant Mix (Tar Binder).....	0.51	0.00	0.00	0.00	
Sub Total.....	941.68	92.22	136.46	761.67	
7. Surfacing Sub Totals					
A. Prime.....	9.45	0.00	0.00	5.88	
B. Primer Seal.....	24.17	7.07	0.00	8.05	
C. Sprayed Seal.....	1027.54	104.38	163.86	1016.16	
D. Enrichment Reseal.....	55.85	0.00	12.79	35.47	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	158.30	11.14	23.20	43.42	
G. Plant Mix (Tar Binder).....	0.86	0.00	0.00	0.00	
Total.....	1256.17	122.59	199.85	1108.98	
Total by Department.....		1378.76			
Total by Councils.....		1308.83	2687.59		
Total by Direct Control.....		1456.02			
Total by Contract.....		1231.57	2687.59		



**BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1978**  
**SCHEDULED ACCORDING TO WORK BY DEPARTMENT AND COUNCILS**  
**TABLE 2 — LANE KILOMETRES**

		Department		Council	
		Direct Control	Contract	Direct Control	Contract
1. Initial Surfacing					
A. Prime.....	0.00	0.00	0.00	11.76	
B. Primer Seal.....	2.70	0.00	0.00	0.00	
C. Sprayed Seal.....	5.90	0.00	8.92	214.51	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	0.00	0.00	0.00	6.30	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	8.60	0.00	8.92	232.57	
2. Surfacing Lengths Primed Before Year					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	0.00	0.00	0.00	0.00	
C. Sprayed Seal.....	10.64	0.86	5.98	84.96	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	0.54	0.00	0.00	0.00	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	11.18	0.86	5.98	84.96	
3. Restoration After Widening/Strengthening					
A. Prime.....	10.06	0.00	0.00	0.00	
B. Primer Seal.....	16.15	13.44	0.00	8.04	
C. Sprayed Seal.....	363.45	6.42	66.26	166.38	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	18.36	0.36	27.57	29.88	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	408.02	20.22	93.83	204.30	
4. Restoration After Adding Lanes					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	4.86	0.00	0.00	3.44	
C. Sprayed Seal.....	8.86	1.98	3.92	16.06	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	35.93	7.26	2.37	5.24	
G. Plant Mix (Tar Binder).....	1.05	0.00	0.00	0.00	
Sub Total.....	50.70	9.24	6.29	24.74	
5. Restoration After New Alignment/Grade					
A. Prime.....	8.84	0.00	0.00	0.00	
B. Primer Seal.....	29.32	0.70	0.00	5.46	
C. Sprayed Seal.....	108.70	15.72	22.15	154.80	
D. Enrichment Reseal.....	0.00	0.00	0.00	0.00	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	49.74	23.50	5.46	4.48	
G. Plant Mix (Tar Binder).....	0.00	0.00	0.00	0.00	
Sub Total.....	196.60	39.92	27.61	164.74	
6. Maintenance Resurfacing					
A. Prime.....	0.00	0.00	0.00	0.00	
B. Primer Seal.....	0.00	0.00	0.00	0.88	
C. Sprayed Seal.....	1577.95	189.71	223.42	1395.28	
D. Enrichment Reseal.....	71.25	0.00	25.58	70.94	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	364.42	1.15	47.49	80.01	
G. Plant Mix (Tar Binder).....	2.04	0.00	0.00	0.00	
Sub Total.....	2015.66	190.86	296.49	1547.11	
7. Surfacing Sub Totals					
A. Prime.....	18.90	0.00	0.00	11.76	
B. Primer Seal.....	53.03	14.14	0.00	17.82	
C. Sprayed Seal.....	2075.50	214.69	330.65	2031.99	
D. Enrichment Reseal.....	71.25	0.00	25.58	70.94	
E. Slurry Seal.....	0.00	0.00	0.00	0.00	
F. Plant Mix (Bitumen Binder).....	468.99	32.27	82.89	125.91	
G. Plant Mix (Tar Binder).....	3.09	0.00	0.00	0.00	
Total.....	2690.76	261.10	439.12	2258.42	
Total by Department.....	2951.86				
Total by Councils.....	2697.54	5649.40			
Total by Direct Control.....	3129.88				
Total by Contract.....	2519.52	5649.40			

# **TYPES OF ROAD SURFACES AS AT 30 JUNE 1978** **SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS**

COUNTY OF CUMBERLAND	Cement Concrete	Bitumen Concrete			Bitumen Other	Gravel	Formed Only	Natural Surface	Total
		Pre-1977	Tar Binder	Bit. Binder					
Freeways.....	0.00	83.14	0.00	2.77	0.00	0.00	0.00	0.00	85.91
State Highways.....	24.60	183.33	0.00	86.47	19.62	0.00	0.00	0.00	314.02
Trunk Roads.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Main Roads.....	51.71	471.00	0.86	222.33	340.19	0.42	0.00	0.21	1086.72
Secondary Roads.....	11.68	158.77	0.00	63.83	49.38	0.33	0.00	3.24	287.23
Tourist Roads.....	0.00	5.25	0.00	3.76	51.95	9.77	0.93	13.68	85.34
Developmental Roads.....	0.00	0.00	0.00	0.00	8.69	5.98	8.52	6.89	30.08
Unclassified Roads.....	0.00	15.50	0.00	3.56	18.51	3.81	0.00	0.00	41.38
Total.....	87.99	916.99	0.86	382.72	488.34	20.31	9.45	24.02	1930.68
<b>COUNTRY</b>									
Freeways.....	0.00	12.58	0.00	28.85	0.00	0.00	0.00	0.00	41.43
State Highways.....	40.64	400.16	0.38	143.62	8647.04	334.07	590.97	0.00	10156.88
Trunk Roads.....	6.49	8.14	0.20	20.01	4593.74	1621.78	852.75	0.00	7103.11
Main Roads.....	13.36	254.69	0.00	60.35	8616.54	5884.10	2448.35	36.32	17313.71
Secondary Roads.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tourist Roads.....	0.00	1.16	0.00	0.00	228.16	100.86	0.13	10.54	340.85
Developmental Roads.....	0.00	0.00	0.00	0.00	99.06	2291.51	867.15	198.52	3456.24
Unclassified Roads.....	0.00	0.00	0.00	0.00	46.70	64.72	1679.28	647.58	2438.28
Total.....	60.49	676.73	0.58	252.83	22231.24	10297.04	6438.63	892.96	40850.50
<b>NEW SOUTH WALES</b>									
Freeways.....	0.00	95.72	0.00	31.62	0.00	0.00	0.00	0.00	127.34
State Highways.....	65.24	583.49	0.38	230.09	8666.66	334.07	590.97	0.00	10470.90
Trunk Roads.....	6.49	8.14	0.20	20.01	4593.74	1621.78	852.75	0.00	7103.11
Main Roads.....	65.07	725.69	0.86	282.68	8956.73	5884.52	2448.35	36.53	18400.43
Secondary Roads.....	11.68	158.77	0.00	63.83	49.38	0.33	0.00	3.24	287.23
Tourist Roads.....	0.00	6.41	0.00	3.76	280.11	110.63	1.06	24.22	426.19
Developmental Roads.....	0.00	0.00	0.00	0.00	107.75	2297.49	875.67	205.41	3486.32
Unclassified Roads.....	0.00	15.50	0.00	3.56	65.21	68.53	1679.28	647.58	2479.66
Total.....	148.48	1593.72	1.44	635.55	22719.58	10317.35	6448.08	916.98	42781.18

# **TYPE OF ROAD SURFACES AS AT 30 JUNE 1977** **SCHEDULED ACCORDING TO DEPARTMENT'S DIVISIONS**

DIVISION	Natural Surface	Formed Only	Plant Mix								Pre- 1977 Concrete	Cement	Total
			Gravel	Primed Only	Primer Sealed	Sprayed Sealed	Enrich Reseal	Slurry Sealed	Bitumen Binder	Tar Binder			
ALL ROADS NEW SOUTH WALES													
Metropolitan .....	0.85	0.00	0.00	0.00	0.00	25.41	0.00	1.13	209.65	0.00	388.24	54.43	679.71
Parramatta (C. of C.) .....	2.60	8.20	12.72	0.00	2.16	337.47	0.00	0.00	97.40	0.86	390.29	33.56	885.26
Parramatta (Country) .....	21.73	3.51	36.80	0.00	0.00	238.51	0.00	0.00	19.08	0.00	93.93	0.00	413.56
Central Mtns. (C. of C.) .....	20.57	1.25	7.59	0.00	0.00	78.78	0.00	0.00	32.19	0.00	28.71	0.00	169.09
Central Mtns. (Country) .....	4.26	5.79	573.20	0.00	6.68	1001.17	1.96	1.72	10.49	0.00	4.79	24.69	1634.75
Illawarra (C. of C.) .....	0.00	0.00	0.00	0.00	0.00	43.39	0.00	0.00	43.48	0.00	109.75	0.00	196.62
Illawarra (Country) .....	0.00	0.00	174.38	1.60	1.88	424.16	8.42	0.00	129.89	0.20	247.18	0.00	987.71
Hunter Valley .....	6.04	0.00	175.42	0.00	0.10	1229.09	0.00	0.84	73.31	0.38	209.59	5.01	1699.78
Lower North Coast .....	24.44	95.10	290.17	0.00	0.00	758.42	0.00	0.00	0.00	0.00	1.64	5.49	1175.26
North Eastern .....	1.35	0.00	397.64	0.00	7.07	1685.01	0.00	0.00	3.91	0.00	0.00	22.71	2117.69
Upper Northern .....	75.45	0.00	1045.03	1.40	15.42	1752.46	0.00	0.75	0.00	0.00	0.00	0.48	2890.99
North Western .....	7.92	91.08	1166.98	5.86	5.70	2073.53	0.00	1.83	1.77	0.00	0.53	0.12	3355.32
Central Western .....	46.22	114.43	1245.19	7.83	28.27	2531.59	44.73	0.00	1.36	0.00	1.49	0.30	4021.41
Central Northern .....	0.00	1933.52	2116.92	1.38	130.19	1347.18	294.81	0.00	0.00	0.00	0.00	0.00	5824.00
Murray Darling .....	661.10	3959.04	497.65	5.46	10.29	1115.10	29.77	0.00	0.00	0.00	0.00	0.00	6278.41
Central Murray .....	12.07	139.01	906.07	0.00	0.19	1914.84	18.05	0.00	0.00	0.00	0.00	0.00	2990.23
South Western .....	19.51	43.37	568.01	0.21	8.69	3000.29	27.69	7.42	3.07	0.00	15.47	0.00	3693.73
Southern .....	11.26	44.12	417.53	0.52	0.00	958.67	0.00	0.00	0.00	0.00	50.41	0.32	1482.83
South Coast .....	1.61	9.66	686.05	0.00	16.41	1493.36	14.72	0.00	9.95	0.00	51.70	1.37	2284.83
Total .....	916.98	6448.08	10317.35	24.26	233.05	22008.43	440.15	13.69	635.55	1.44	1593.72	148.48	42781.18

Councils continued to carry out maintenance and construction works on Urban and Rural Local Roads from funds provided by the Commonwealth but administered by the Department and not accounted for in the above tabulations. Details are as follows:

1. Length of initial seal.....	378.44 km
2. Length of surfacing over primed or primer seal.....	34.38 km
3. Length of restoration surfacing.....	292.08 km
4. Length of maintenance resurfacing.....	691.74 km



# ROAD TRAFFIC SURVEYS

## Traffic Volume Surveys

A detailed traffic volume survey was completed during the year in the County of Cumberland. Similar surveys are in progress in the North Eastern, Lower North Coast, Illawarra, South Coast, South Western, Central Murray, Central Northern and Murray Darling Divisions, and in the urban areas of the Hunter Valley Division.

## Publication of Traffic Volume Data

Data collected during the 1976 surveys in the Hunter Valley Division and in the urban areas of the Illawarra Division were published during the year. Survey results for Upper Northern, North Western, Central Western, Southern and Central Mountains Divisions and Colo and Gosford Shires portion of the Parramatta Division were being printed at the end of June 1978.

## Permanent and Semi-Permanent Counting Stations

As in 1976 there were 160 permanent counting stations in operation during 1977. To provide additional information

on seasonal traffic variation on roads in Divisions being surveyed during 1978, a total of 63 semi-permanent stations were installed in late 1977 and early 1978.

The work to equip permanent counting stations with sub-surface, inductive loop detectors continues. Installations at 17 additional sites will be completed during 1978.

Annual Average Daily Traffic Volumes at permanent and semi-permanent counting stations for the calendar year 1977 are listed below. Corresponding volumes for 1976 and the percentage change are also shown.

## Review of Traffic Volume Surveys

This work, which ensures that information required by the users is obtained as rapidly as possible without sacrificing accuracy, continues from the previous year. Automated data collection from traffic signal sites is under investigation. In line with the Department's decentralisation policy, decentralisation of data collection to the Divisions is in progress. Hunter Valley and Illawarra are the first divisions to carry out their own field work associated with the 1978 Traffic Volume Survey.

## TRAFFIC VOLUMES AT PERMANENT AND SEMI-PERMANENT COUNTING STATIONS FOR THE CALENDAR YEAR ENDED DECEMBER 1977

Local Government Area	Location	Annual Average Daily Traffic		% change
		1976	1977	
<b>F3 — Sydney-Newcastle Freeway</b>				
Hornsby	Berowra — north of Toll Plaza	18,700	20,170	+8
<b>F4 — Western Freeway</b>				
Penrith	Regentville — at Nepean River Bridge	13,230	12,390	-6
<b>F5 — South Western Freeway</b>				
Campbelltown	Leumeah — north of Campbelltown Road Overbridge	23,040	24,440	+6
<b>F6 — Southern Freeway</b>				
Wollongong	Waterfall — Bull Pass Tollwork	8,490	9,130	+8
Wollongong	At Gipps Street Overbridge	31,310	34,970	+12
Wollongong	Unanderra, north of Northcliffe Drive interchange	18,390	19,850	+8
<b>Bradfield Highway</b>				
Sydney	Sydney Harbour Bridge	146,040	150,840	+3
<b>Southern Cross Drive</b>				
Botany	1.0 km north of MR344 (Wentworth Avenue)	36,860	38,890	+6
<b>SH1 — Princes Highway</b>				
Rockdale	Tempe — bridge over Cooks River	49,720	51,850	+4
Sutherland	Sylvania — bridge over Georges River	53,920	54,870	+2
Sutherland	Loftus — railway overbridge	30,960	32,130	+4
Wollongong	Austinmer — north of Sublime Point Lookout	3,950	5,040	+28
Wollongong	South of Smith Street	22,940	21,930	-4
Wollongong	Figtree, at bridge over American Creek	21,610	20,760	-4
Kiama	1.6 km south of post office	8,470	8,430	0
Shoalhaven	Klimpton, north of MR312 (Huskisson Road)	6,240	6,840	+10
Eurobodalla	Batemans Bay — bridge over Clyde River	5,330	5,490	+3
Mumbulla	1.6 km north of SH4 (Snowy Mountains Highway)	1,550	1,520	-2
Imilay	Eden — 3.2 km north of post office	2,280	2,510	+10
Imilay	Eden — south of Quarantine Bay Road	1,680	1,830	+9
Imilay	Eden — at Old Road Creek	1,120	1,210	+8
<b>SH2 — Hume Highway</b>				
Ashfield	East of Bruce Street	23,350	22,030	-6
Bankstown	Lansdowne — east of SH13 (Woodville Road)	38,650	40,020	+4
Bankstown	Chullora — west of SR2087 (Pemberton Street)		44,660	
Liverpool	Cross Roads — east of York Street	40,650	42,060	+3
Camden	Narellan, 2.4 km north of MR178	4,870	5,560	+14
Mittagong	3.2 km north east of post office	10,370	10,940	+5
Mulwaree	Yarra — west of SH2 (Federal Highway)	4,310	4,470	+4
Goodradigbee	Yass — 6.4 km west of post office	6,550	7,010	+7
Holbrook	Holbrook — 3.2 km north of post office	3,090	3,200	+4

Local Government Area	Location	Annual Average Daily Traffic		% change
		1976	1977	
<b>SH3 — Federal Highway</b>				
Mulwaree	Yarra — south of SH2 (Hume Highway)	4,410	4,410	0
<b>SH4 — Snowy Mountains Highway</b>				
Mumbulla	West of SH1 (Princes Highway)	820	880	+7
Snowy River	East of MR286 (Cooma-Berridale Road)	2,530	2,680	+6
Snowy River	Adaminaby — 1.3 km west of Rosedale Road	800	840	+5
<b>SH5 — Great Western Highway</b>				
Ashfield	East of Dalhousie Street	39,640	41,370	+4
Parramatta	Clyde — at railway level crossing	48,580	52,490	+8
Blacktown	Wallgrove — at Eastern Creek Bridge	30,530	30,860	+1
Penrith	Bridge over Nepean River	21,280	22,530	+6
City of Blue Mountains	Wentworth Falls — 4 km west of railway station	10,250	10,550	+3
Turon	West of Blaxland Shire boundary	4,860	5,300	+9
<b>SH6 — Mid Western Highway</b>				
Waugoola	Cowra — bridge over Waugoola Creek	2,120	2,190	+3
Weddin	Marsden — east of SH17 (Newell Highway)	520	520	0
Bland	Wyalong — east of TR57 (Temora Road)	2,020	2,190	+8
Hay	Hay — 3.2 km east of post office	760	720	-5
<b>SH7 — Mitchell Highway</b>				
Canabolas	Orange — 2.4 km east of MR245 (Peisley Street)	4,650	4,910	+6
Canabolas	Orange — 4.8 km north of post office	2,260	2,450	+8
Talbragar	Dubbo — 1.9 km east of East Dubbo level crossing	2,570	2,810	+9
Darling	Bourke — 8 km south of post office	250	280	+12
<b>SH8 — Barrier Highway</b>				
Cobar	East of TR61 (Orange-Cobar Road)	430	490	+14
Western Division	Broken Hill — 25.8 km east of SH22 (Silver City Highway)	340	430	+26
<b>SH9 — New England Highway</b>				
Newcastle	Hexham — north of SH10 (Pacific Highway)	22,700	23,410	+3
Patrick Plains	4.6 km east of MR128 (Singleton-Gostwyck Road)	5,820	5,630	-3
Peel	Tamworth — 5.4 km south of post office	2,530	2,770	+9
Cockburn	Tamworth — 1.0 km north of MR105 (Nundle Road)	4,560	5,110	+12
Severn	Glen Innes — at Redbank Creek	2,140	2,170	+1
<b>SH10 — Pacific Highway</b>				
Hornsby	Waitara — north of SH13 (Pennant Hills Road)	34,840	34,940	0
Hornsby	Berowra — north of Toll Plaza	4,780	4,850	+1
Hornsby	Brooklyn — bridge over Hawkesbury River	3,940	3,660	-7
Lake Macquarie	Swansea — 3.2 km south of bridge over entrance to Lake Macquarie	11,480	12,030	+5
Lake Macquarie	Charlestown — south of Smart Street	36,190	36,500	+1
Newcastle	Hexham — bridge over Hunter River	13,480	14,600	+8
Port Stephens	Karuah — bridge over Karuah River	5,850	6,070	+4
Manning	Nabiac — bridge over Wollomba River	4,330	4,590	+6
Hastings	Bridge over Hastings River	4,220	4,620	+9
Nambucca	Macksville — 1.6 km north of Scotts Head Road	4,410	4,780	+8
Ullmarra	South Grafton — south of DR1253 (Grafton By-Pass)	3,290	3,760	+14
Macleay	Harwood — bridge over Clarence River	3,840	4,010	+4
Tintenbar	Ballina — south of SH16 (Brunmer Highway)	3,120	3,450	+9
Tweed	Tweed Heads South — south of Kirkwood Road	15,270	17,420	+14
<b>SH11 — Oxley Highway</b>				
Hastings	Wauchope — 2.5 km west of Beechwood Road	1,190	1,250	+5
Peel	Tamworth — 8.0 km west of MR130 (Tamworth-Werris Creek Road)	1,970	2,090	+6
Coonabarabran	Coonabarabran — 0.3 km north of MR396 (Binnaway Road)	2,200	2,380	+8
<b>SH12 — Gwydir Highway</b>				
Severn	Gibraltar Range at Tick Gates	440	470	+6
Boolooloo	Moree — 3.2 km east of post office	1,240	1,380	+1
<b>SH13 — Woodville Road, Church Street and Pennant Hills Road</b>				
Fairfield	Villawood — north of SH2 (Hume Highway)	33,580	35,160	+5
Baulkham Hills	West Pennant Hills — south of Copeland Street		27,390	



Local Government Area	Location	Annual Average Daily Traffic		% change
		1976	1977	
<b>SH14 — Sturt Highway</b>				
Kyeamba	0.5 km east of MR384 (Alfred Town-Kyeamba Road)	1,690	1,900	+12
Hay	At Bungah Creek Bridge	1,200	1,260	+5
Wentworth	Buronga — 18 km east of SH22 (Silver City Highway)	1,380	1,440	+4
<b>SH15 — Barton Highway</b>				
Goodradigbee	Yass — south of SH2 (Hume Highway)	3,540	3,600	+2
<b>SH16 — Bruxner Highway</b>				
Tintenbar	Ballina — 3.2 km west of SH10 (Pacific Highway)	2,800	2,970	+6
Gundurimba	McKees Hill Post Office	2,730	2,980	+9
Tenterfield	West of SH9 (New England Highway)	270	280	+3
<b>SH17 — Newell Highway</b>				
Booolooroo	Gamurra — at railway level crossing No. 209	1,640	1,780	+9
Talbragar	Dubbo — 3.2 km north of post office	3,670	3,760	+2
Goobang	3.2 km north of Parkes Post Office	2,120	2,260	+7
Narrandera	3.2 km east of post office	1,630	1,800	+10
Berrigan	Finley — 3.2 km south of post office	2,230	2,330	+4
<b>SH18 — Castlereagh Highway</b>				
Coonamble	3.2 km south of post office	650	680	+5
<b>SH19 — Monaro Highway</b>				
Monaro	Bunyan — bridge over Cooma Creek	2,140	2,270	+6
Monaro	Nimmitabel — 1.6 km north of post office	1,120	1,200	+7
Bombala	0.8 km north of Iris Street	700	760	+9
<b>SH20 — Riverina Highway</b>				
Hume	Albury — 6.2 km west of post office	1,610	1,720	+7
Denillquin	1.6 km east of MR552 (Jerilderie Road)	1,120	1,110	-1
<b>SH21 — Cobb Highway</b>				
Murray	Denillquin — 5.0 km south of SH20 (Riverina Highway)	1,170	1,220	+4
<b>SH22 — Silver City Highway</b>				
Western Division	Broken Hill — 9.7 km north of MR577 (Eyre Street)	290	330	+14
<b>SH23</b>				
Newcastle	Birmingham Gardens — Sandgate Road, north of Vale Street	19,690	19,900	+3
<b>SH25 — Illawara Highway</b>				
Shellharbour	Macquarie Pass — east of Old South Road	2,210	2,390	+8
<b>SH26 — Calga-Ourimbah Road</b>				
Gosford	Peats Ridge — south of MR590 (Mangrove Mountain Road)	14,440	14,740	+2
<b>TR51 — Batemans Bay-Canberra</b>				
Eurobodalla	Nelligen — 0.2 km north of bridge over Clyde River	1,530	1,610	+5
<b>TR55 — Marrangaroo-Mullaley</b>				
Cudgong	Mudgee — 0.8 km south of railway level crossing	2,100	1,840	-12
<b>TR61 — Orange-Cobar</b>				
Canobolas	Orange — at Canobolas Shire Boundary	2,060	2,300	+12
<b>TR65 — Ewingsdale-Lismore</b>				
Byron	Bangalow — 6.4 km west of SH10 (Pacific Highway)	2,190	2,320	+6
<b>TR74 — Armidale-South Grafton</b>				
Ulmarra	South Grafton — 1.0 km south of MR151 (Grafton-Coffs Harbour Road)	590	630	+7
<b>TR76 — Raleigh-Ebor</b>				
Fermount	6.0 km west of SH10 (Pacific Highway)	1,940	2,070	+7
<b>TR78 — Olympic Way</b>				
Mitchell	Wagga Wagga — 1.6 km north of MR240 (Coolamon Road)	2,320	2,440	+5
<b>TR82 — Newcastle-Jesmond</b>				
Newcastle	Hamilton — Donald Street at railway overbridge	18,920	19,420	+3

Local Government Area	Location	Annual Average Daily Traffic		% change
		1976	1977	
<b>TR83 — Grafton-Woodenbong</b>				
Grafton	Bridge over Clarence River	15,700	16,250	+4
Copmanhurst	Koolkhan — 0.5 km south of MR150 (Koolkhan-Woodenbong Road)	1,200	1,410	+16
Kyogle	Kyogle — 0.8 km south of Highfield Road	1,780	1,980	+11
<b>TR95 — Picton-Wollongong</b>				
Wollondilly	Maldon — at railway level crossing	1,890	1,920	+2
<b>MR101 — West Maitland-Weismantels</b>				
Port Stephens	Paterson — west of Woodville Road	1,390	1,410	+1
<b>MR104 — East Maitland-Raymond Terrace</b>				
Port Stephens	Raymond Terrace — south of MR601 (Seaham Road)	2,330	2,580	+11
<b>MR108 — Mayfield North-Shoal Bay</b>				
Newcastle	Stockton — at bridge over Hunter River	9,480	10,120	+7
<b>MR147 — Woodburn-Lismore</b>				
Woodburn	Ferry over Richmond River	220	220	0
<b>MR149 — Casino-Coraki-Buckendoon</b>				
Woodburn	Coraki — ferry over Richmond River	140	140	0
<b>MR152 — Lawrence-Yamba</b>				
Maclean	Bluff Point — ferry over Clarence River	340	410	+21
<b>MR162 — Mona Vale Road</b>				
Ryde	North Ryde — De Burghs Bridge over Lane Cove River	35,530	36,860	+4
Ku-ring-gai	Pymble — north of Orana Avenue	19,110	19,070	0
<b>MR164 — Spit Road</b>				
Mosman	Spit Junction — west of Gurrigal Street	39,420	39,650	+1
Manly	The Spit — bridge over Middle Harbour	52,630	53,690	+2
<b>MR165 — Victoria Road</b>				
Leichhardt	Glebe Island — bridge over Johnstons Bay	51,020	53,250	+4
Drummoyne	Gladesville — bridge over Parramatta River	75,640	77,650	+3
<b>MR166 — Huntleys Point-Lane Cove</b>				
Lane Cove	Figtree Bridge over Lane Cove River	35,930	37,030	+3
<b>MR167 — Canterbury Road-Newbridge Road</b>				
Canterbury	Wiley Park — east of Canary Road	32,440	33,590	+4
Bankstown	Milperra — bridge over Georges River	43,840	47,900	+9
<b>MR172 — Oxford Street</b>				
Woollahra	West of Ocean Street	45,780	46,740	+2
<b>MR173 — Kings Cross</b>				
Sydney	Kings Cross Tunnel	34,740	39,030	+11
<b>MR177 — Appin Road</b>				
Campbelltown	0.8 km north of post office	13,240	14,720	+11
Wollondilly	Appin — north of MR610 (Maldon Road)	6,930	7,270	+5
<b>MR181 — McGraths Hill-Singleton</b>				
Baulkham Hills	Webbs Creek — ferry over Hawkesbury River	230	230	0
<b>MR182 — Windsor-Sackville Reach</b>				
Baulkham Hills	Sackville Reach — ferry over Hawkesbury River	370	410	+10
<b>MR184 — Parramatta-Mt. Victoria</b>				
Baulkham Hills	Kellyville — north of MR157 (Showground Road)		21,050	
Colo	Kurrajong — east of MR519 (Colo Road)	2,780	3,260	+17
<b>MR194 — General Holmes Drive</b>				
Botany	2.1 km east of bridge over Cooks River	56,850	58,930	+4
<b>MR199 — Rocky Point Road-Taren Point Road</b>				
Sutherland	Captain Cook Bridge over Georges River	44,760	46,730	+4



Local Government Area	Location	Annual Average Daily Traffic		% change
		1976	1977	
<b>MR200 — Concord Road</b>				
Ryde	Uhrs Point — bridge over Parramatta River	42,400	44,230	+4
<b>MR217 — Wyong-Birmingham Gardens</b>				
Lake Macquarie	Boolaroo — north of First Street	16,980	17,090	+1
Lake Macquarie	Morisset — at Dora Creek Bridge	5,000	5,660	+13
<b>MR220 — Toronto-Brunkerville-Cessnock-Glendonbrook</b>				
Cessnock	At Brunkerville Post Office	3,830	4,040	+5
<b>MR223 — Lookout Road</b>				
Newcastle	New Lambton Heights — north of Ridgeway Road	22,300	22,780	+2
Lake Macquarie	Glendale, west of MR217 (Lake Road)	16,590	17,380	+5
<b>MR225 — Wisemans Ferry-Central Mangrove</b>				
Baulkham Hills	Wisemans Ferry — ferry over Hawkesbury River	550	600	+9
<b>MR260 — Moss Vale-Mittagong</b>				
Bowral	Bowral — south of MR263 (Kangaloon Road)	6,130	6,880	+12
<b>MR261 — Moss Vale-Bomaderry</b>				
Wingecambee	Fitzroy Falls — north of post office	960	1,030	+7
<b>MR286 — Mount Kosciuszko Road</b>				
Snowy River	Jindabyne — 16 km north-west of post office	1,160	1,320	+14
<b>MR295 — Five Islands Road</b>				
Wollongong	Cringila — east of MR568 (Springhill Road)	34,840	35,600	+2
<b>MR309 — Rydalmere Avenue-Aston Street</b>				
Parramatta	Cameilla — south of River Road	25,740	26,470	+3
<b>MR328 — Warringah Road</b>				
Warringah	Forestville — west of Melwood Avenue	50,410	54,480	+8
<b>MR332 — Berowra Waters Road</b>				
Hornsby	Berowra Waters — ferry over Berowra Creek	370	420	+14
<b>MR336 — Gosford-The Entrance</b>				
Gosford	0.3 km east of Russell Street	22,470	23,310	+4
<b>MR373 — Epping Road</b>				
Hornsby	Epping — bridge over Terrys Creek	33,890	35,540	+5
<b>MR503 — Wilberforce-Singleton</b>				
Patrick Plains	Howes Valley — 5.6 km north of post office	1,360	1,410	+4
<b>MR512 — Heathcote-Liverpool</b>				
Liverpool	Milperra — bridge over Georges River		46,910	
<b>MR513 — Mt. Ousley Road</b>				
Wollongong	At County of Cumberland boundary	13,720	15,240	+11
<b>MR532 — Silverwater Road</b>				
Parramatta	Silverwater — bridge over Parramatta River	34,780	35,940	+3
<b>MR556 — Gladstone-Smithtown-Seven Oaks</b>				
Macleay	Smithtown — bridge over Macleay River (bridge opened 15.6.73)	1,290	1,220	-5
<b>MR604 — Adamstown-Newcastle-Stockton-Nelson Bay</b>				
Newcastle	South of MR188 — Glebe Road	10,790	10,810	0
Newcastle	Broadmeadow — south-west of Samdon Street	23,610	23,480	0
<b>Other than Main Roads</b>				
Concord	Mortlake — ferry over Parramatta River	300	300	0
Sydney	Pymont — bridge over Darling Harbour	49,480	50,490	+2
Wakool	Speewa — ferry over Murray River	70	40	-43
Ulmarra	Ulmarra — ferry over Clarence River	40	40	0
Bankstown	Padstow — at Alford's Point Bridge	10,140	11,090	+9
Bankstown	Greenacre — Stacey Street North, south of Mimosa Road		19,320	

# APPENDIX No. 1

Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(A) COMMONWEALTH AID ROADS FUND</b>					
<b>Receipts</b>					
Grants under the Commonwealth Aid Roads Act, 1969 —					
Schedule 2 — urban arterial roads.....	55,120,000				
Schedule 3 — rural arterial roads.....	17,520,000				
Schedule 4 — rural roads other than arterial roads .....	3,668,240				
Schedule 5 — planning and research.....	1,470,000				
Grants under the Transport (Planning and Research) Act, 1974 —					
Schedule 1 .....		1,240,843	1,597,079	1,761,326	112,647
Grants under the National Roads Act, 1974 —					
Schedule 1 — construction .....	27,930,000	39,930,000	47,152,209		603,179
Schedule 2 — maintenance .....	7,270,000	7,200,000	7,070,809		1,000,000
Schedule 3 — construction and maintenance of export and commercial roads .....		2,070,000	2,510,865		208,135
Grants under the Roads Grants Act, 1974 —					
Schedule 2 — rural arterial roads .....	12,190,000	15,430,000	15,430,000		
Schedule 3 — rural local roads.....	11,145,000	16,638,856	18,170,000		
Schedule 4 — minor traffic engineering and road safety improvements.....	249,998	3,025,133			
Schedule 5 — urban arterial roads .....	46,590,000	44,260,000	36,600,000		
Schedule 6 — urban local roads.....	2,180,000	4,251,381	4,600,000		
Grants under the Transport Planning and Research (Financial Assistance) Act, 1977 .....					1,613,285
Grants under the States Grants (Roads) Act, 1977 —					
Schedule 2 — national roads construction .....					56,093,176
Schedule 3 — national roads maintenance .....					7,226,116
Schedule 4 — national commerce roads construction.....					6,302,372
Schedule 6 — rural arterial roads construction.....					18,000,000
Schedule 7 — rural local roads construction and maintenance.....					25,800,000
Schedule 9 — urban arterial roads construction.....					28,700,000
Schedule 10 — urban local roads construction .....					7,400,000
<b>Total receipts .....</b>	<b>77,778,240</b>	<b>108,795,841</b>	<b>134,402,449</b>	<b>133,295,209</b>	<b>153,058,910</b>
Balance brought forward.....	4,460,794	3,523,820	2,565,333*	5,004,123**	923,398
	<b>82,239,034</b>	<b>112,319,661</b>	<b>136,967,782</b>	<b>138,299,332</b>	<b>153,982,308</b>

\* An amount of \$464,513 included in the balance carried forward at 30 June 1975 was refunded to the Commonwealth Government.

\*\* An amount of \$1,160,410 included in the balance carried forward at 30 June 1976 was brought forward on 1 July 1976 in the Traffic Facilities Fund (see Appendix 1(E)).

## Payments

<b>Commonwealth Aid Roads Act, 1969 —</b>					
<b>Construction and reconstruction of roads and bridges —</b>					
Urban arterial roads — work by councils.....	1,538,239	330,822			
— work by department.....	38,146,654	3,192,998			
Rural arterial roads — work by department.....	17,520,000				
Other rural roads — work by councils.....	3,008,477				
— work by department.....	520,662				
<b>Construction and maintenance of unclassified roads in the unincorporated area of the Western Division —</b>					
Other rural roads — work by department.....	139,101				
Land acquisitions .....	16,372,081				
Planning and research .....	1,470,000				
Transport (Planning and Research) Act, 1974 —					
Planning and research .....		974,218	1,639,295	2,084,456	166,148
<b>National Roads Act, 1974 —</b>					
<b>Construction and reconstruction of roads and bridges —</b>					
— work by councils.....		160,811	235,571	582,669	
— work by department.....		26,091,822	35,635,056	48,353,111	
Property acquisitions.....		930,920	1,289,703	1,656,292	
<b>Maintenance and minor improvement of roads and bridges —</b>					
— work by councils.....		31,276	62,816	83,639	
— work by department.....		6,959,109	6,964,040	7,956,742	
Purchase of land and buildings for works operations.....		23,560	160,813	208,400	
Corridor studies.....		33,272	25,887		
Administrative expenses.....		1,369,230	1,771,800	2,358,658	



**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(A) COMMONWEALTH AID ROADS FUNDS — Payments — continued</b>					
<b>Roads Grants Act, 1974 —</b>					
Construction and reconstruction of roads and bridges —					
Rural arterial roads — work by councils.....		987,242	4,062,721	8,706,344	
— work by department.....		10,733,912	10,774,279	6,130,195	
Urban arterial roads — work by councils.....		1,377,441	8,626,283	1,849,213	
— work by department.....		29,393,441	25,835,582	25,187,493	
Urban local roads — work by councils.....		1,789,562	4,148,318	4,612,527	
Minor traffic engineering and road safety improvements —					
— work by councils.....		71,901	596,629		
— work by department.....		79,016	1,196,594		
Construction and maintenance of roads and bridges —					
Rural local roads — work by councils.....		7,932,253	16,410,825	15,970,311	2,835,409
— work by department.....		193,983	772,955	1,198,053	1,976*
Property acquisitions.....		14,027,195	10,096,136	8,155,602	
Administrative expenses.....		2,605,831	2,497,946	2,282,229	
Transport Planning and Research (Financial Assistance) Act, 1977.....					1,613,285
<b>States Grants (Roads) Act, 1977 —</b>					
Construction and reconstruction of roads and bridges —					
National roads — work by councils.....					272,724
— work by department.....					52,209,416
National commerce roads — work by department.....					6,045,979
Rural arterial roads — work by councils.....					8,588,753
— work by department.....					8,718,939
Urban arterial roads — work by councils.....					1,516,737
— work by department.....					16,052,530
Urban local roads — work by councils.....					7,100,100
Maintenance and minor improvement of roads and bridges —					
National roads — work by councils.....					82,903
— work by department.....					6,865,267
Construction and maintenance of roads and bridges —					
Rural local roads — work by councils.....					22,975,595
— work by department.....					1,156,487
Purchase of land and buildings for works operations.....					507*
Property acquisitions.....					11,494,995
Administrative expenses.....					4,821,328
<b>Total payments.....</b>	<b>78,715,214</b>	<b>109,289,815</b>	<b>130,803,249</b>	<b>137,375,934</b>	<b>152,514,112</b>
<b>Balance carried forward.....</b>	<b>3,523,820</b>	<b>3,029,846</b>	<b>6,164,533</b>	<b>923,398</b>	<b>1,468,196</b>
	<b>82,239,034</b>	<b>112,319,661</b>	<b>136,967,782</b>	<b>138,299,332</b>	<b>153,982,308</b>

\*Credit

**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(B) COUNTY OF CUMBERLAND MAIN ROADS FUND</b>					
<b>(I) General Purposes</b>					
<b>Receipts</b>					
Motor vehicle taxation and fees .....	22,592,725	23,803,997	24,830,204	29,645,608	34,288,739
Charges on commercial vehicles under the Road Maintenance (Contribution) Act .....	3,938,967	4,153,899	4,053,555	3,961,932	3,804,513
Loan borrowings under Section 42A of the Main Roads Act .....					4,310,000
State Government Loans — Repayable .....					6,000,000
State Treasury Advance .....					7,000,000
Levy upon councils under Section 11 of the Main Roads Act .....	167,237	155,903	104,468	56,559	59,324
Contributions from councils .....	124,066	318,245	674,269	745,267	160,728
Contributions from other departments and bodies .....	106,893	23,922	132,543	80,950	287,505
Other .....	742,407	1,416,865	1,449,671	1,055,575	3,153,389
<b>Total receipts .....</b>	<b>27,672,295</b>	<b>29,872,831</b>	<b>31,244,710</b>	<b>35,545,891</b>	<b>59,064,198</b>
Balance brought forward .....	1,606,075	2,583,024	8,519,639	7,578,177	8,008,123
	<u>29,278,370</u>	<u>32,455,855</u>	<u>39,764,349</u>	<u>43,124,068</u>	<u>67,072,321</u>
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils .....	355,925	1,873,912	1,905,483	3,104,962	1,931,930
work by department .....	3,112,767	2,898,542	4,624,347	8,286,248	21,717,270
Property acquisitions .....	6,886,121	4,059,978	4,359,405	4,341,084	3,264,617
Maintenance and minor improvement of roads, bridges and ferries —					
work by councils .....	1,187,230	1,379,082	2,068,714	2,818,906	2,264,784
work by department .....	6,336,315	8,247,290	11,670,651	12,385,726	15,656,455
Purchase of land and buildings for works operations .....	725,498	334,849	481,541	223,655	1,752,081
Planning and research .....	130,527	393,446	229,718	425,457	664,630
Administrative expenses .....	4,557,855	2,906,183	3,412,915	2,308,810	2,273,388
Purchase of land and buildings for administration .....	44,417	227,944	277,688	228,981	576,090
State Treasury Loans —					
interest, exchange, management and flotation expenses .....	204,390	219,650	239,590	291,610	531,640
sinking fund payment .....					56,000
Loans raised under Section 42A of the Main Roads Act —					
interest .....	683,920	764,836	1,009,322	1,397,599	2,114,479
repayment of principal .....					403,550
Other .....	230,263	213,900	221,915	328,614	426,339
<b>Total payments .....</b>	<b>24,455,228</b>	<b>23,519,612</b>	<b>30,501,289</b>	<b>36,141,652</b>	<b>53,627,253</b>
Transfer to County of Cumberland Reserve for loan repayments .....	436,275	24,375	206,287	249,787	303,787
Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense accounts and reserve accounts .....	1,803,843	392,229	1,478,596	1,275,494*	4,100,000
Balance carried forward .....	2,583,024	8,519,639	7,578,177	8,008,123	9,041,281
	<u>29,278,370</u>	<u>32,455,855</u>	<u>39,764,349</u>	<u>43,124,068</u>	<u>67,072,321</u>

\* Credit



**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(B) COUNTY OF CUMBERLAND MAIN ROADS FUND — continued</b>					
<b>(II) Special Purposes</b>					
<b>Receipts</b>					
Loan funds — State Government.....	800,000	2,000,000		1,000,000	
Loan funds — borrowings under Section 42A of the Main Roads Act .....	5,000,000	7,931,513	5,000,000	6,290,000‡	300,000†
Sydney Harbour Bridge account for freeway approaches...	6,560	3,038	6,711	354,230	
Commonwealth/State Government Grant for relief of unemployment.....	70,888†	226,047	146,270		2,860,000
State Government Grant for access to Westmead Hospital.....					500,000
Commonwealth Government Grant for traffic engineering and road safety improvement and access to Kingswood arms depot.....	190,000	29,047			
Contributions from other departments and bodies.....	18,566				1,108,500
<b>Total receipts</b> .....	<b>5,944,238</b>	<b>10,189,645</b>	<b>5,152,981</b>	<b>7,644,230</b>	<b>4,168,500</b>
Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve accounts.....	1,398,061	1,120,060†	285,390	3,084,279†	3,526,409†
Balance brought forward.....	11,093,437	10,999,774	10,397,617	8,035,379	7,636,219
	<u>18,435,736</u>	<u>20,069,359</u>	<u>15,835,988</u>	<u>12,595,330</u>	<u>8,278,310</u>
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils.....					364,500
work by department .....	7,122,983	9,242,578	7,410,926	4,655,000	6,181,974
Maintenance and minor improvement of roads and bridges —					
work by councils.....	80,049	2,366			
work by department .....	9,427	209,696	160,254		
Payment of sinking fund — State Government Loans.....	18,320	19,390	21,120	62,760	
Repayment of principal on loans raised under Section 42A of the Main Roads Act .....	205,183	197,712	208,309	241,351	
<b>Total payments</b> .....	<b>7,435,962</b>	<b>9,671,742</b>	<b>7,800,609</b>	<b>4,959,111</b>	<b>6,546,474</b>
Balance carried forward.....	10,999,774	10,397,617	8,035,379	7,636,219	1,731,836
	<u>18,435,736</u>	<u>20,069,359</u>	<u>15,835,988</u>	<u>12,595,330</u>	<u>8,278,310</u>
<b>(III) Reserve for Loan Repayments</b>					
<b>Receipts</b>					
Transfer from —					
General purposes account.....	436,275	24,375	206,287	251,287	303,787
Special purposes account.....	651,383	624,896	708,521	2,115,271	716,772
Interest on investments.....	758,834	633,642	579,774	668,309	1,077,995
Discount on inscribed stock purchased below par .....					
<b>Total receipts</b> .....	<b>1,849,462</b>	<b>1,282,913</b>	<b>1,494,582</b>	<b>3,034,867</b>	<b>2,098,554</b>
Balance brought forward —					
Investments .....	2,578,200	4,798,200	5,978,200	7,478,200	10,653,200
Cash .....	425,588	55,050	157,963	152,545	12,412
	<u>4,853,250</u>	<u>6,136,163</u>	<u>7,630,745</u>	<u>10,665,612</u>	<u>12,764,166</u>
<b>Payments</b>					
<b>Total payments</b> .....					
Balance carried forward —					
Investments .....	4,798,200	5,978,200	7,478,200	10,653,200	12,761,200
Cash .....	55,050	157,963	152,545	12,412	2,966
	<u>4,853,250</u>	<u>6,136,163</u>	<u>7,630,745</u>	<u>10,665,612</u>	<u>12,764,166</u>

† Debit

‡ Includes \$2,990,000 of 1977/78 loan allocation received prior to 30 June 1977.

**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(C) COUNTRY MAIN ROADS FUND — (i) General Purposes</b>					
<b>Receipts</b>					
Motor vehicle taxation and fees .....	57,006,498	59,702,711	61,124,099	73,107,313	84,766,150
Charges on commercial vehicles under the Road Maintenance (Contribution) Act .....	15,755,867	16,615,594	16,214,221	15,847,729	15,218,052
Loan borrowings under Section 42A of the Main Roads Act					6,000,000
State Government loans — repayable .....					3,000,000
State Treasury advance — repayable .....			6,000,000		
Contributions from councils .....	256,467	117,490	456,707	153,126	401,130
Contributions from other departments and bodies .....	199,202	180,354	160,793	403,094	376,386
Other .....	369,053	444,921	452,972	596,270	1,031,599
<b>Total receipts</b> .....	<b>73,587,087</b>	<b>77,061,070</b>	<b>84,408,792</b>	<b>90,107,532</b>	<b>110,793,317</b>
Balance brought forward .....	4,911,217	8,181,988	9,115,673	12,140,436	20,191,146
	<u>78,498,304</u>	<u>85,243,058</u>	<u>93,524,465</u>	<u>102,247,968</u>	<u>130,984,463</u>
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils .....	8,468,980	11,368,385	15,650,013	6,603,207	11,332,524
work by department .....	18,449,227	18,908,835	18,056,021	11,509,875	29,890,415
Property acquisitions .....	2,396,484	2,568,141	2,034,533	2,156,537	2,064,503
Maintenance and minor improvement of roads, bridges and ferries —					
work by councils .....	9,657,163	12,437,685	14,818,766	19,447,856	22,072,329
work by department .....	17,457,449	20,505,230	23,775,134	28,667,181	34,522,799
Maintenance and construction of unclassified roads in the western division —					
work by department .....				94,809	
Purchase of land and buildings for works operations .....	181,702	440,306	451,010	383,695	833,141
Planning and research .....	168,183	607,883	357,718	647,720	1,044,280
Administrative expenses .....	6,625,803	5,922,760	6,087,460	7,897,882	6,776,232
Purchase of land and buildings for administration .....	195,676	324,619	853,576	371,004	221,620
State Treasury loans —					
Interest, exchange, management and flotation expenses .....	959,949	971,626	1,305,457	1,811,387	3,239,193
Sinking fund payment .....					291,172
Loans raised under Section 42A of the Main Roads Act —					
Interest .....	1,119,715	1,118,692	1,311,638	1,824,940	2,549,763
Repayment of principal .....					719,291
Other .....	473,675	864,465	754,852	465,057	1,340,883
Repayment of temporary advance from State Treasury —					
<b>Total payments</b> .....	<b>66,154,006</b>	<b>76,038,627</b>	<b>85,456,178</b>	<b>81,881,150</b>	<b>116,898,145</b>
Transfer to country reserve for loan repayments .....	507,264		175,538	230,363	320,363
Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense accounts and reserve accounts .....	3,655,046	88,758	4,247,687*	54,691*	
Balance carried forward .....	8,181,988	9,115,673	12,140,436	20,191,146	13,765,955
	<u>78,498,304</u>	<u>85,243,058</u>	<u>93,524,465</u>	<u>102,247,968</u>	<u>130,984,463</u>
<b>(ii) Special Purposes</b>					
<b>Receipts</b>					
Loan funds — State Government .....	700,000		7,250,000	7,000,000	
Loan funds — borrowings under Section 42A of the Main Roads Act .....	68,487	3,000,000	7,700,000		
Commonwealth/State Government Grant for restoration of flood damage .....	1,500,000	8,267,000	13,223,400	11,806,380	8,725,600
Commonwealth/State Government Grant for relief of unemployment .....	118,531	285,520	202,409	100,000	7,820,000
State Government Grant for upgrading of cane roads .....				300,000	
Commonwealth Government Grant for traffic engineering and road safety improvement .....	310,000	12,953			
Contributions from other departments and bodies .....	315,848	420,683	825,916	430,000	489,550
<b>Total receipts</b> .....	<b>2,944,379</b>	<b>9,054,643</b>	<b>24,501,725</b>	<b>27,336,380</b>	<b>17,035,150</b>
Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve accounts .....	4,828,500	2,808,902†	3,844,201†	1,109,642	5,932,099‡
Balance brought forward .....	13,033,703	17,083,758	14,918,717	11,033,031	10,618,567
	<u>20,806,582</u>	<u>23,329,499</u>	<u>35,576,241</u>	<u>39,479,053</u>	<u>21,721,618</u>

†Debit

\*Credit



# APPENDIX No. 1 — continued

Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(C) COUNTRY MAIN ROADS FUND — (ii) Special Purposes — continued</b>					
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils.....	8,753†	16,631	36,043	574,791	3,678,535
work by department .....	968,161	193,521	10,000,000	14,790,439	3,785,600
Maintenance and minor improvement of roads and bridges —					
work by councils.....	308,640	6,104*			
work by department .....	296,431	764,970	803,111	613,267	648,076
Restoration of flood damage.....	1,763,522	7,027,441	13,181,743	12,184,292	9,261,714
Repayment of principal and payment of sinking fund —					
State Government loans .....	192,811	201,524	215,263	180,553	
Repayment of principal on loans raised under Section 42A of the Main Roads Act .....	202,012	212,799	307,050	517,144	
<b>Total payments</b> .....	<b>3,722,824</b>	<b>8,410,782</b>	<b>24,543,210</b>	<b>28,860,486</b>	<b>17,373,925</b>
Balance carried forward.....	17,083,758	14,918,717	11,033,031	10,618,567	4,347,693
	<u>20,806,582</u>	<u>23,329,499</u>	<u>35,576,241</u>	<u>39,479,053</u>	<u>21,721,618</u>
<b>(iii) Reserve for Loan Repayments</b>					
<b>Receipts</b>					
Transfer from —					
General purposes account.....	507,264		175,538	230,383	320,363
Special purposes account.....	49,069	49,069	49,249	49,249	49,249
Interest on investments.....	165,560	211,988	212,758	248,676	331,618
Discount on inscribed stock purchased below par .....	540				
<b>Total receipts</b> .....	<b>722,433</b>	<b>261,057</b>	<b>437,545</b>	<b>528,288</b>	<b>701,230</b>
Balance brought forward —					
Investments .....	1,145,000	2,280,000	2,560,000	2,930,000	3,530,000
Cash .....	436,479	23,912	4,969	72,514	802
	<u>2,303,912</u>	<u>2,564,969</u>	<u>3,002,514</u>	<u>3,530,802</u>	<u>4,232,032</u>
<b>Payments</b>					
<b>Total payments</b> .....					
Balance carried forward —					
Investments .....	2,280,000	2,560,000	2,930,000	3,530,000	4,231,400
Cash .....	23,912	4,969	72,514	802	632
	<u>2,303,912</u>	<u>2,564,969</u>	<u>3,002,514</u>	<u>3,530,802</u>	<u>4,232,032</u>
<b>(D) TOTAL STATE ROAD FUNDS</b>					
<b>(i) General Purposes</b>					
<b>Receipts</b>					
Motor vehicle taxation and fees .....	79,599,223	83,506,708	85,954,303	102,752,921	119,054,889
Charges on commercial vehicles under the Road Maintenance (Contribution) Act .....	19,694,834	20,769,493	20,267,776	19,809,661	19,022,565
Loan borrowings under Section 42A of the Main Roads Act					10,310,000
State Government loans — repayable .....					9,000,000
Levy upon councils under Section 11 of the Main Roads Act.....	167,237	155,903	104,468	56,559	59,324
State Treasury advance — repayable.....			6,000,000		7,000,000
Contributions from councils .....	380,533	435,735	1,130,976	898,392	561,858
Contributions from other departments and bodies .....	306,095	204,276	293,336	484,044	663,891
Other .....	1,111,460	1,861,786	1,902,643	1,651,846	4,184,988
<b>Total receipts</b> .....	<b>101,259,382</b>	<b>106,933,901</b>	<b>115,653,502</b>	<b>125,653,423</b>	<b>169,857,515</b>
Balance brought forward.....	6,517,292	10,765,012	17,635,312	19,718,613	28,199,269
	<u>107,776,674</u>	<u>117,698,913</u>	<u>133,288,814</u>	<u>145,372,036</u>	<u>198,056,784</u>

† Debit

\* Credit

**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(D) TOTAL STATE ROAD FUNDS — (I) General Purposes — continued</b>					
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils.....	8,824,905	13,242,297	17,555,496	9,708,169	13,264,454
work by department .....	21,561,994	21,807,377	22,680,368	19,796,123	51,607,685
Property acquisitions .....	9,282,605	6,628,119	6,393,938	6,497,621	5,329,120
Maintenance and minor improvement of roads, bridges and ferries —					
work by councils.....	10,844,393	13,816,767	16,887,480	22,266,762	24,337,113
work by department .....	23,793,764	28,752,520	35,445,785	41,052,907	50,179,254
Maintenance and Construction of Unclassified Roads in the western division —					
work by department .....				94,809	
Purchase of land and buildings for works operations .....	907,200	775,155	932,551	607,350	2,585,222
Planning and research .....	298,710	1,001,329	587,436	1,073,177	1,708,910
Administrative expenses.....	11,183,658	8,828,943	9,500,375	10,206,692	9,048,620
Purchase of land and buildings for administration.....	240,093	552,563	1,131,264	599,985	797,710
State Treasury loans —					
interest, exchange, management and flotation expenses .....	1,164,339	1,191,276	1,545,047	2,102,997	3,770,833
sinking fund payment .....					341,172
Loans raised under Section 42A of the Main Roads Act —					
interest .....	1,803,635	1,883,528	2,320,960	3,222,539	4,664,242
repayment of principal.....					1,122,841
Other .....	703,938	1,078,365	976,767	793,671	1,767,222
<b>Total payments .....</b>	<b>90,609,234</b>	<b>99,558,239</b>	<b>115,957,467</b>	<b>118,022,802</b>	<b>170,525,398</b>
Transfer to reserve for loan repayments .....	943,539	24,375	381,825	480,150	624,150
Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense accounts and reserve accounts.....	5,458,889	480,987	2,769,091*	1,330,185*	4,100,000
Balance carried forward.....	10,765,012	17,635,312	19,718,613	28,199,269	22,807,236
	<u>107,776,674</u>	<u>117,698,913</u>	<u>133,288,814</u>	<u>145,372,036</u>	<u>198,056,784</u>
<b>(II) Special Purposes</b>					
<b>Receipts</b>					
Loan Funds — State Government .....	1,500,000	2,000,000	7,250,000	8,000,000	
Loan Funds — borrowings under Section 42A of the Main Roads Act .....	5,000,000	8,000,000	8,000,000	13,990,000‡	300,000†
Sydney Harbour Bridge account for freeway approaches...	6,560	3,038	6,711	354,230	
Commonwealth/State Government Grant for restoration of flood damage .....	1,500,000	8,267,000	13,223,400	11,806,380	8,725,600
Commonwealth/State Government Grant for relief of unemployment .....	47,643	511,567	348,679	100,000	10,680,000
State Government Grant for upgrading of cane roads.....				300,000	
State Government Grant for access road to Westmead Hospital.....					500,000
Commonwealth Government Grant for traffic engineering and road safety improvement and access to Kingswood arms depot.....	500,000	42,000			
Contributions from other departments and bodies .....	334,414	420,683	825,916	430,000	1,598,050
<b>Total receipts .....</b>	<b>8,888,617</b>	<b>19,244,288</b>	<b>29,654,706</b>	<b>34,980,610</b>	<b>21,203,650</b>
Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve accounts.....	6,226,561	3,928,962†	3,558,811†	1,974,637†	9,458,508†
Balance brought forward.....	24,127,140	28,083,532	25,316,334	19,068,410	18,254,786
	<u>39,242,318</u>	<u>43,398,858</u>	<u>51,412,229</u>	<u>52,074,383</u>	<u>29,999,928</u>

\*Credit

†Debit

‡Includes \$2,990,000 of 1977/78 Loan Allocation received prior to 30 June 1977



**APPENDIX No. 1 — continued**  
Statement of Receipts and Payments for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>(D) TOTAL STATE ROAD FUNDS — (II) Special Purposes — continued</b>					
<b>Payments</b>					
Construction and reconstruction of roads and bridges —					
work by councils.....	8,753*	16,631	36,043	574,791	4,043,035
work by department .....	8,091,144	9,436,099	17,410,926	19,445,439	9,967,574
Maintenance and minor improvement of roads and bridges —					
work by councils.....	388,689	3,738*			
work by department .....	305,858	974,666	963,365	613,267	648,076
Restoration of flood damage.....	1,763,522	7,027,441	13,181,743	12,184,292	9,261,714
Repayment of principal and payment of sinking fund —					
State Government loans .....	211,131	220,914	236,383	243,313	
Repayment of principal on loans raised under Section 42A of the Main Roads Act .....	407,195	410,511	515,359	758,495	
<b>Total payments .....</b>	<b>11,158,786</b>	<b>18,082,524</b>	<b>32,343,819</b>	<b>33,819,597</b>	<b>23,920,399</b>
Balance carried forward.....	28,083,532	25,316,334	19,088,410	18,254,786	6,079,529
	<u>39,242,318</u>	<u>43,398,858</u>	<u>51,412,229</u>	<u>52,074,383</u>	<u>29,999,928</u>
<b>(E) TRAFFIC FACILITIES FUND</b>					
<b>Receipts</b>					
Motor vehicle taxation.....				3,345,600	3,820,000
Road transport and traffic fund and public vehicles fund .....				7,229,609	13,293,078
Public vehicles fund .....					325,000
Ministry of Transport vote .....				2,500,000	2,500,000
Grants under the National Roads Act, 1974 —					
Schedule 1 — construction .....				125,612	
Schedule 2 — maintenance .....				529,191	
Grants under the Roads Grants Act, 1974 —					
Schedule 4 — minor traffic engineering and road safety improvements.....				3,391,778	228,051
Grants under the Transport (Planning and Research) Act, 1974 .....				24,168	150
Grants under the States Grants (Roads) Act, 1977 —					
Schedule 2 — national roads construction .....					129,324
Schedule 3 — national roads maintenance .....					849,012
Schedule 8 — minor traffic engineering and road safety improvements.....					3,300,000
Other .....				1,214,997	1,801,745
<b>Total receipts .....</b>				<b>18,360,955</b>	<b>26,246,360</b>
Balance brought forward.....				1,160,410†	
				<u>19,521,365</u>	<u>26,246,360</u>
<b>Payments</b>					
Maintenance and operations .....				11,984,140	16,378,141
Construction .....				6,074,086	7,724,764
Administrative expenses.....				1,125,972	1,519,559
Establishment of transferred Department of Motor Transport organisation .....				200,916	323,746
Planning and research.....				36,251	150
<b>Total payments .....</b>				<b>19,421,365</b>	<b>25,946,360</b>
Transfer to County of Cumberland Fund special purposes account for construction of Bondi Junction By-Pass.....				100,000	300,000
				<u>19,521,365</u>	<u>26,246,360</u>

\* Credit

† The balance brought forward at 1 July 1976 was part of the balance carried forward at 30 June 1976 in the Commonwealth Aid Roads Fund (see Appendix 1(A)).

## APPENDIX No. 2 SYDNEY HARBOUR BRIDGE ACCOUNT

Statement of Income and Expenditure for the Five Years ended 30 June 1978

	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$	1977/78 \$
<b>Income</b>					
Road tolls on vehicles .....	4,833,400	4,982,997	5,105,399	5,133,643	5,395,430
Railway passenger tolls (net) .....	259,667	314,855	321,450	351,975	355,763
Omnibus passenger tolls .....	26,096	670	526	457	395
Net rent from tenanted properties .....	273,791	242,162	315,484	196,674	272,027
Interest on investments .....	—	—	225,000	282,500	285,000
Sale of assets .....	—	—	—	40	95
<b>Total income</b> .....	<u>5,392,954</u>	<u>5,540,684</u>	<u>5,967,859</u>	<u>5,965,289</u>	<u>6,308,710</u>
<b>Expenditure</b>					
<b>Loan Charges — State loans</b>					
Interest .....	740,650	704,940	665,130	697,970	741,700
Exchange .....	3,250	2,240	2,660	—	—
Sinking fund .....	470,150	490,430	522,690	—	—
Management expenses .....	2,720	2,520	2,800	1,500	2,200
Flotation expenses .....	41,990	34,720	24,360	21,330	19,100
	<u>1,258,760</u>	<u>1,234,850</u>	<u>1,217,640</u>	<u>720,800</u>	<u>763,000</u>
<b>Loan Charges — borrowings under Section 42A of the Main Roads Act</b>					
Interest .....	465,312	466,830	461,261	498,629	526,928
Repayment on principal .....	191,715	165,292	111,819	116,823	106,298
Transfer to reserve for loan repayments .....	240,872	243,472	243,472	243,472	243,472
	<u>897,899</u>	<u>875,594</u>	<u>816,552</u>	<u>858,924</u>	<u>876,698</u>
<b>Maintenance, lighting and cleaning of bridge and approaches</b> .....	1,133,566	1,399,506	1,599,129	1,592,857	1,594,755
<b>Provision of traffic facilities</b> .....	467,266	613,856	573,617	959,206	1,071,520
<b>Cost of collecting road tolls</b> .....	601,174	786,609	989,967	1,036,819	1,114,841
<b>Alterations to toll gates and archways</b> .....	4,233	13,197	13,257	—	—
<b>Administrative expenses</b> .....	242,226	354,358	415,545	375,390	306,317
<b>Engineering administration</b> .....	—	—	—	—	38,671
<b>Other</b> .....	—	—	1,511	1,117	—
	<u>2,448,465</u>	<u>3,167,526</u>	<u>3,593,026</u>	<u>3,965,389</u>	<u>4,126,104</u>
<b>Total expenditure</b> .....	<u>4,605,124</u>	<u>5,277,970</u>	<u>5,627,218</u>	<u>5,545,113</u>	<u>5,765,802</u>
<b>Excess of income over expenditure</b> .....	787,830	262,714	340,641	420,176	542,908
<b>Less — transfers to County of Cumberland main roads fund (special purposes account) for — Warringah Free-way construction</b> .....	6,560	3,038	6,711	354,230	—
<b>Surplus for the year</b> .....	781,270	259,676	333,930	65,946	542,908
<b>Accumulated surplus brought forward</b> .....	2,674,801	3,456,071	3,715,747	4,049,677	4,115,623
<b>Accumulated surplus carried forward</b> .....	<u>3,456,071</u>	<u>3,715,747</u>	<u>4,049,677</u>	<u>4,115,623</u>	<u>4,658,531</u>

\*Of this sum, \$3,000,000 has been invested under Section 9 of the Sydney Harbour Bridge (Administration) Act, 1932

### SYDNEY HARBOUR BRIDGE LOAN RESERVE ACCOUNT

Statement of Income and Expenditure for the Five Years ended 30 June 1978

<b>Income</b>					
Transfers from the Sydney Harbour Bridge account .....	240,872	243,472	243,472	243,472	243,472
Interest on investments .....	124,678	173,338	215,764	275,618	363,309
Discount received on inscribed stock .....	240	—	—	—	—
<b>Total income</b> .....	<u>365,790</u>	<u>416,810</u>	<u>459,236</u>	<u>519,090</u>	<u>606,781</u>
<b>Balance brought forward</b> .....	1,913,197	2,278,987	2,770,797	3,230,033	3,749,123
	<u>2,278,987</u>	<u>2,695,797</u>	<u>3,230,033</u>	<u>3,749,123</u>	<u>4,355,904</u>
<b>Expenditure</b>					
Premium and brokerage on stock purchased					
Conversion of loans .....		75,000*			
<b>Total expenditure</b> .....		<u>75,000*</u>			
<b>Balance carried forward</b> .....	2,278,987	2,770,797	3,230,033	3,749,123	4,355,904
	<u>2,278,987</u>	<u>2,695,797</u>	<u>3,230,033</u>	<u>3,749,123</u>	<u>4,355,904</u>

\*Credit



**APPENDIX No. 2 — continued**  
**SYDNEY HARBOUR BRIDGE ACCOUNT**  
Balance Sheet as at 30 June 1978

Previous Year \$		\$	\$	\$
	<b>Funds Employed</b>			
	<b>Accumulated funds and reserves</b>			
	Surpluses from bridge operations and other sources —			
27,035,264	Applied to capital works.....		27,035,263	
12,765,891	Applied to loan repayments.....		12,899,318	
4,115,623	Appropriation account.....		4,658,532	
3,749,123	Capital redemption reserve.....		4,355,904	
<u>47,665,901</u>				48,949,017
	<b>Long term liabilities</b>			
9,423,410	General loan account.....		9,396,281	
7,652,201	Loans raised under Section 42A of the Main Roads Act.....		7,545,904	
<u>17,075,611</u>				16,942,185
<u>64,741,512</u>	<b>Total funds .....</b>			<u>65,891,202</u>
	<b>Represented by</b>			
	<b>Fixed assets</b>			
19,060,785	Bridge construction .....	19,060,785		
26,463,303	Warringah Freeway approach.....	26,463,303		
8,977,270	Cahill Expressway .....	8,977,270		
2,011,340	Conversion of tram tracks .....	2,011,340		
364,068	Widening western approach .....	364,068		
<u>56,876,766</u>			56,876,766	
114,105	Furniture and equipment (less depreciation).....		82,586	
<u>56,990,871</u>				56,959,352
	<b>Investments</b>			
3,672,300	Securities of public authorities .....			4,246,800
	<b>Current assets</b>			
66,942	Stores and materials .....	81,835		
338,480	Sundry debtors and accrued interest .....	388,088		
4,037,333	Cash .....	4,432,045		
<u>4,442,755</u>			4,901,968	
	<b>Less — Current liabilities</b>			
	Sundry creditors —			
138,114	Private lenders for interest.....	148,515		
226,300	Other .....	68,403		
<u>364,414</u>			216,918	4,685,050
<u>64,741,512</u>				<u>65,891,202</u>

### APPENDIX No. 3

Summary of Loan Liabilities to the State Treasury as at 30 June 1978

Particulars	County of Cumberland Main Roads Fund			Country Main Roads Fund		Develop- mental Roads Fund	Total
	Section 13(4C) of Main Roads Act, 1924	Sydney- Newcastle Tollwork	Waterfall to Bulli Pass Tollwork	Section 21(3, 3A and 3B) of Main Roads Act, 1924	Sydney- Newcastle Tollwork	Section 21(8) of Main Roads Act, 1924	
	\$	\$	\$	\$	\$	\$	
<b>Gross liability assumed:</b>							
Prior to 1 July 1977 .....	4,850,000	12,200,000	3,400,000	29,685,305	16,750,000	3,449,039	70,334,344
During 1977/78 .....	6,000,000	—	—	3,000,000	—	—	9,000,000
<b>Total to 30 June 1978 .....</b>	<b>10,850,000</b>	<b>12,200,000</b>	<b>3,400,000</b>	<b>32,685,305</b>	<b>16,750,000</b>	<b>3,449,039</b>	<b>79,334,344</b>
<b>Repayments of principal and sinking fund contribution:</b>							
Prior to 1 July 1977							
By department .....	243,780	512,910	96,130	5,432,825	862,810	47,781	7,196,235
By Commonwealth government under financial agreement and federal aid roads and works agreement .....	121,828	249,904	33,304	1,593,137	410,240	406,296	2,814,709
<b>Total prior to 1 July 1977 .....</b>	<b>365,608</b>	<b>762,814</b>	<b>129,434</b>	<b>7,025,962</b>	<b>1,273,050</b>	<b>454,077</b>	<b>10,010,945</b>
During 1977/78							
By department .....	50,000	134,400	35,000	253,072	181,100	38,100	691,672
By Commonwealth government under financial agreement .....	12,550	32,428	9,259	63,932	43,234	9,107	170,511
<b>Total during 1977/78 .....</b>	<b>62,550</b>	<b>166,828</b>	<b>44,259</b>	<b>317,004</b>	<b>224,334</b>	<b>47,207</b>	<b>862,183</b>
To 30 June 1978							
By department .....	293,780	647,310	131,130	5,685,897	1,043,910	85,881*	7,887,908
By Commonwealth government under financial agreement and federal aid roads and works agreement .....	134,378	282,331	42,563	1,657,070	453,474	415,403	2,985,219
<b>Total to 30 June 1978 .....</b>	<b>428,158</b>	<b>929,641</b>	<b>173,693</b>	<b>7,342,967</b>	<b>1,497,384</b>	<b>501,284</b>	<b>10,873,127</b>
<b>Net liability at 30 June 1978 .....</b>	<b>10,421,842</b>	<b>11,270,359</b>	<b>3,226,307</b>	<b>25,342,338</b>	<b>15,252,616</b>	<b>2,947,755</b>	<b>68,461,216</b>

\*State Treasury has paid \$1,944,475 to 30 June 1978 in connection with the sinking fund liabilities.

### APPENDIX No. 4

Summary of Loan Liabilities as at 30 June 1978

Particulars	County of Cumberland Main Roads Fund		County of Cumberland Waterfall to Bulli Pass Tollwork		Sydney-Newcastle Tollwork		Country Main Roads Fund	Sydney Harbour Bridge Account	Total
	County of Cumberland Main Roads Fund	Waterfall to Bulli Pass Tollwork	County of Cumberland	Country	County of Cumberland	Country	Country Main Roads Fund	Warringah Freeway	
	\$	\$	\$	\$	\$	\$	\$	\$	
<b>LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT</b>									
<b>Gross liability assumed:</b>									
Prior to 1 July 1977 .....	21,055,000	27,600,000	4,500,000	1,500,000	28,100,000	9,320,000	92,075,000		
During 1977/78 .....	7,000,000	—	—	—	6,000,000	—	13,000,000		
<b>Total to 30 June 1978 .....</b>	<b>28,055,000</b>	<b>27,600,000</b>	<b>4,500,000</b>	<b>1,500,000</b>	<b>34,100,000</b>	<b>9,320,000</b>	<b>105,075,000</b>		
<b>Repayment of principal and sinking fund contribution:</b>									
Prior to 1 July 1977									
Principal .....	2,029,451	1,841,042	90,000	226,770	1,813,687	1,667,799	7,668,747		
Sinking fund .....	3,350,841	4,081,956	3,232,815	523,597	3,007,205	3,749,123	17,945,537		
During 1977/78									
Principal .....	403,551	480,802	10,000	74,469	719,291	106,298	1,794,410		
Sinking fund .....	303,787	526,170	190,602	49,249	320,363	243,472	1,633,643		
Net interest on investment .....	319,368	389,050	369,577	49,177	282,441	347,985	1,757,598		
<b>Total to 30 June 1978 .....</b>	<b>6,406,997</b>	<b>7,319,020</b>	<b>3,892,994</b>	<b>923,261</b>	<b>6,142,987</b>	<b>6,114,676</b>	<b>30,799,935</b>		
<b>Net liability at 30 June 1978 .....</b>	<b>21,648,003</b>	<b>20,280,980</b>	<b>607,006</b>	<b>576,739</b>	<b>27,957,013</b>	<b>3,205,324</b>	<b>74,275,065</b>		



# **APPENDIX No. 5** **COMMONWEALTH AID ROADS FUND**

Summary of payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(A) SCHEDULE 2 — CONSTRUCTION OF NATIONAL HIGHWAYS</b>					<b>\$</b>
<b>(i) COUNTY OF CUMBERLAND AREA</b>					
<b>(a) FREEWAYS</b>					
<b>South Western Freeway</b>					
Campbelltown	F5 & 178	53.43 km to 55.04 km south of Sydney	Interchange	Department	307,376
"	F5	MR178 to Nepean River, 55.04 km to 61.1 km south of Sydney	Divided two lane carriageway	"	2,531,476
"	F5	Nepean River at Menangle	Twin reinforced concrete bridges	"	656,007
"	F5	MR179, 4.83 km south of Campbelltown	Prestressed concrete bridge underpass	"	37,190*
"	F5	Minto Rd, 57.5 km south of Sydney	Prestressed concrete bridge	"	179,685
"	F5	Main southern railway line at Glenlee, 56.78 km south of Sydney	Prestressed concrete bridge	"	430,689
				<b>Total Freeways</b>	<b>4,068,043</b>
<b>(b) STATE HIGHWAYS</b>					
<b>Hume Highway</b>					
Camden	2	Northbound carriageway over MR178	Interchange structure	Department	6,405
"	2	Bridge over Nepean River at Camden	Northern approach	"	64,518
				<b>Total State Highways</b>	<b>70,923</b>
<b>(c) TRUNK AND ORDINARY MAIN ROADS</b>					
Camden	178	F5 near Campbelltown to SH2 near Narellan	Dual carriageway	Department	5,791
"	178	6.44 km to 8.53 km west of Campbelltown, including intersection with SH2	Reconstruction	"	554,988
Liverpool	177 & 2	The Cross Roads, Casula	Reconstruction of damaged pavement	"	22,670
				<b>Total Trunk and Ordinary Main Roads</b>	<b>583,449</b>
<b>(ii) COUNTRY URBAN AREA</b>					
<b>(a) STATE HIGHWAYS</b>					
<b>New England Highway</b>					
Greater Cessnock	9	19.8 km to 19.9 km west of Maitland	Reinforced concrete box culvert	Department	391
Maitland	9	25.9 km to 28.16 km west of Newcastle	Divided two lane carriageway	"	601,490
"	9	2.65 km to 4.68 km west of Maitland	Reconstruction and bituminous surfacing	"	344,478
"	9	10.0 km to 11.30 km west of Maitland	Strengthening of pavement	"	198,409
"	9	8.2 km to 10.0 km west of Maitland	Reconstruction and bituminous surfacing	"	355,127
Newcastle	9	18.50 km to 23.25 km north of Newcastle	Strengthening of pavement and asphaltic concrete surfacing	"	61,592
"	9	16.0 km to 18.7 km north of Newcastle	"	"	1,972*
"	9	20.11 km west of Newcastle	Improvement of drainage	"	79,940
				<b>Total State Highways</b>	<b>1,639,455</b>
<b>(iii) COUNTRY RURAL AREA</b>					
<b>(a) FREEWAYS</b>					
<b>Sydney-Newcastle Freeway</b>					
Gosford	F3	14.37 km north of Gosford	Dual carriageway	Department	1,472,979
"	F3	48.0 km to 64.0 km north of Sydney	Asphaltic concrete surfacing	"	452,741
"	F3	52.4 km to 63.7 km north of Sydney	Strengthening of pavement	"	68,535
					<b>1,994,255</b>
<b>South Western Freeway</b>					
Mittagong	F5	Yerrinbool to Aylmerton	Divided two lane carriageway	Department	38,100
"	F5	Yanderra to Yerrinbool	"	"	124,935
"	F5	Twin bridges at Yanderra, 102.7 km south of Sydney	Prestressed concrete bridges	"	292,034
"	F5	Twin bridges over southern railway and south bound loading ramp near Yanderra	Construction of piers	"	2,449*
Wollondilly	F5	Moreton Park Rd over F5, 69.2 km south of Sydney	Prestressed concrete steel bridge (deviation bridge)	"	452,923
"	F5	Nepean River at Menangle	Twin reinforced concrete bridges	"	558,463
"	F5	Nepean River at Douglas Park	Twin prestressed concrete bridges	"	2,508,883
"	F5	Mt Keira Rd over F5, 71.5 km south of Sydney	Prestressed concrete bridge	"	216,264

\*Credit

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(A) SCHEDULE 2 — CONSTRUCTION OF NATIONAL HIGHWAYS — continued</b>					<b>\$</b>
<b>(iii) COUNTRY RURAL AREA — continued</b>					
Wollondilly	F5	Nepean River at Pheasants Nest	Prestressed concrete bridge	Department	308
"	F5	Moolgun Creek	Twin prestressed concrete girder bridges	"	1,756,521
"	F5	Moreton Park Rd over F5, 69.2 km south of Sydney	Prestressed concrete steel bridge (deviation bridge)	"	493,748
"	F5	Avon Dam Rd over F5, 87.4 km south of Goulburn	Steel girder and reinforced concrete bridge (water main bridge)	"	133,337
"	F5	Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney	Divided two lane carriageway	"	3,210,240
"	F5	Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney	"	"	4,346,231
"	F5	Pheasants Nest to Yanderra, 77.3 km to 102.7 km south of Sydney	Divided dual carriageway	"	1,338,681
"	F5	"	"	"	3,032,083
"	F5	Pheasants Nest to Yanderra, 86.7 km to 89.6 km south of Sydney	Earthworks, drainage, and associated work for divided dual carriageway	"	34,733
					<u>18,535,035</u>
<b>Total Freeways</b>					<u>20,529,290</u>
<b>(b) STATE HIGHWAYS</b>					
<b>Hume Highway</b>					
Albury	2	59.45 km to 60.8 km south of Holbrook	Reconstruction and bituminous surfacing	Department	33,108
"	2 & 125	Intersection with Urana Rd, Albury	Improvement	"	290,151
Camden	2	Cowper Drive, Camden to MR259	Kerb and gutter, and sidestrip sealing	Council	5,193*
Goodradigbee	2	12.0 km to 16.4 km south of Yass	Divided carriageway, asphaltic concrete surfacing	Department	106,895
"	2	1.0 km to 47.9 km south of Yass	Improvement of drainage and pavement	"	275,493
"	2	Yass to Bowning, 5.6 km to 12.1 km south of Yass	Divided two lane carriageways	"	325,901
"	2	Bridge over Connors Creek, 35.2 km south of Yass	Approaches	"	4,892
"	2	Level crossing at Coolac, 83.7 km south of Yass	Improvement of approach alignment	"	81,938
Goulburn City	2	Main Southern railway, 2.3 km north of Goulburn	Overbridge	"	7,881
"	2	156 km south of Sydney (59 km north of Goulburn) at Penrose	Establishment of rest area	"	3,209
"	2	Bradley St to Clinton St, Goulburn	Reconstruction of cement concrete pavement	Council	72,844
"	2	82.1 km to 85.6 km south of Mittagong	Divided two lane carriageway	Department	664,235
"	2	Mundy St to Mary St, Goulburn	Reconstruction and bituminous surfacing	Council	95,794
"	2	Intersections of Clinton St and Auburn St, and Clinton and Cowper St, Goulburn	Channelisation	"	5,540*
"	2	Mulwaree Ponds at North Goulburn	Demolition of old bridge	Department	11,063
Gundagai	2	Jones Creek, 101.5 km south of Yass	Twin prestressed concrete bridges	"	335,243
"	2	"	Prestressed concrete bridge	"	2,165
"	2	Northbound loading ramp, 100.0 km south of Yass	"	"	18,437
"	2	Punch St at Gundagai	Twin prestressed concrete bridges	"	2,165
"	2	Jones Creek, 101.5 km south of Yass	"	"	134,341
"	2	Murrumbidgee River at Gundagai	Reinforced concrete bridge	"	69,791
"	2	76.0 km to 77.0 km south of Yass	Reconstruction and widening	"	219,436
"	2	41.9 km to 53.4 km south of Holbrook	Asphaltic concrete surfacing	"	44,498
"	2	28.0 km to 37.0 km south of Gundagai	Reconstruction	"	619,773
"	2	3.2 km to 12.8 km south of Gundagai	Second carriageway	"	20,652
"	2	Bridge over Connors Creek, 32.1 km to 39.3 km south of Yass	Approaches	"	33,596
"	2	84.3 km to 95.3 km south of Gundagai	Bituminous concrete surfacing of pavement	"	658,981
"	2	Bridge over Murrumbidgee River at Gundagai	Approaches	"	1,810,689

\*Credit



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(A) SCHEDULE 2 — CONSTRUCTION OF NATIONAL HIGHWAYS — continued</b>					<b>\$</b>
<b>(iii) COUNTRY RURAL AREA — (b) STATE HIGHWAYS — continued</b>					
Gundagai	2	Selected lengths, 34.75 km north to 36.97 km south of Gundagai	Reconstruction and bituminous surfacing	Department	729,115
Gunning	2	Bridge over Fish River, 45.0 km south of Goulburn	Approaches	..	386,250
..	2	23.7 km to 66.7 km south of Goulburn	Widening and improvements of formation and pavement reconstruction	..	795,138
..	2	Fish River, 45.0 km south of Goulburn	Prestressed concrete girder bridge	..	10,552
..	2	Fish River, 45.0 km south of Goulburn	Demolition of old bridge	..	3,913
Holbrook	2 & 284	Intersection at Little Billabong, 43.9 km to 44.9 km south of Tarcutta	Improvement	..	29,171
Hume	2	49.1 km to 53.6 km south of Holbrook	Reconstruction and bituminous surfacing	..	67,169*
..	2	56.0 km to 59.7 km south of Holbrook	..	..	390,329
Kyeamba	2	3.6 km to 20.4 km south of Tarcutta	Second carriageway	..	1,494,588
..	2	Macintyres Creek, 10.9 km south of Tarcutta	Reinforced concrete bridge	..	70,974
..	2	Kilgowlah Creek, 13.2 km south of Tarcutta	Prestressed concrete bridge	..	116,098
..	2	Bridge over Keajura Creek, 9.9 km south of Tarcutta	..	..	117,665
Mittagong	2	Braemar Creek, 3.4 km north of Mittagong	Reinforced concrete bridge	..	126,220
..	2	117.0 km to 123.1 km south of Sydney	Divided carriageway	..	326,584
..	2	126.1 km to 128.8 km south of Sydney	Reconstruction of pavement and slow vehicle lane	..	351,905
Mulwaree	2	161.1 km to 166.1 km south of Sydney	Dual carriageway	..	857,075
..	2	10.0 km south of Goulburn	Reconstruction of embankments	..	1,999
..	2	161.1 km to 196.3 km south of Sydney	Improvement of drainage and reconstruction of pavement	..	81,428
Wingecaribee	2	154.3 km to 164.8 km south of Sydney	Dual carriageway	..	5,469,936
..	2	Hanging Rock-Uringalla Creek, 165.1 km to 165.9 km south of Sydney	..	..	417,333
Wollondilly	2	74.0 km to 75.6 km south of Sydney	Reconstruction and bituminous surfacing	..	7,705
..	2	Southern approach to Picton sub-way	Improvement of alignment	..	17,462
..	2	76.4 km to 78.4 km south of Sydney	Reconstruction and bituminous surfacing	..	271,397
..	2	88.87 km to 96.6 km south of Sydney	Asphaltic concrete surfacing	..	79,943
Yass	2	Bridge over Yass River, 88.2 km to 89.3 km south of Goulburn	Approaches	..	810,133
..	2	Hume Bridge over Yass River at Yass	Supply and delivery of steel piles	..	508
..	2	Yass River at Yass	Demolition of old structure	..	21,428
..	2	Yass River at Yass	Steel girder and reinforced concrete bridge	..	188,334
					<u>19,038,452</u>
<b>Federal Highway</b>					
Mulwaree	3	22.2 km to 80.0 km south of Goulburn	Strengthening and heavy patching	..	428,410
..	3	14.3 km to 22.2 km south of Goulburn	Second carriageway	..	221,931
					<u>650,341</u>
<b>New England Highway</b>					
Armidale City	9	1.75 km north of Armidale	Adjustment to Gluny Road Drive to future deviation of SH9	Council	6,520
..	9	Erskine St to Northern City Boundary, Armidale	Reconstruction and widening	..	88,024
Cockburn	9	4.84 km to 16.6 km north of Tamworth	Asphaltic concrete surfacing and widening and extension and widening of culvert	Department	40,610
..	9	33.8 km to 36.2 km north of Tamworth	Widening, reconstruction and bituminous surfacing of slow vehicle lane	..	165,955
..	9	24.9 km to 29.9 km north of Tamworth	Provision of additional carriageways	..	1,069,179
..	9	62.4 km to 69.4 km north of Tamworth	Provision of slow vehicle lane for northbound traffic	..	1,672
Denman	9	35.4 km north of Singleton	Scour correction	..	13,716
..	9	1.6 km to 6.7 km north of Muswellbrook	Strengthening of pavement with asphaltic concrete	..	216,294
*Credit					

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(A) SCHEDULE 2 — CONSTRUCTION OF NATIONAL HIGHWAYS — continued</b>					<b>\$</b>
<b>(iii) COUNTRY RURAL AREA — (b) STATE HIGHWAYS — continued</b>					
<b>New England Highway — continued</b>					
Dumaresq	9	7.05 km to 10.99 km north of Armidale	Reconstruction and bituminous surfacing	Department	1,358
Glen Innes	9	2.4 km to 6.0 km north of Glen Innes	"	"	2
"	9	2.4 km to 3.8 km north of Glen Innes	Strengthening and widening of existing pavement	"	231,739
Murrurundi	9	63.06 km to 64.52 km north of Muswellbrook	Reconstruction and bituminous surfacing	"	151,101
Muswellbrook Municipality	9	Loma St to Dumaresq St, Muswellbrook	Strengthening of pavement	Council	6,520
Parry	9	141.7 km to 143.3 km north of Muswellbrook	Strengthening of pavement	Department	19,443
"	9	Lameys Creek, 27.4 km north of Tamworth	Reinforced concrete box culvert	"	120,928
Patrick Plains	9	23.35 km to 24.6 km north of Maitland	Reconstruction and bituminous surfacing including slow vehicle lane	"	193,139
Scone	9	Aberdeen overbridge, 16.2 km north of Muswellbrook	Approaches	"	3,292
Severn	9	17.7 km to 22.8 km north of Glen Innes	Reconstruction and bituminous surfacing	"	17,003*
"	9	6.0 km to 9.6 km north of Glen Innes	Reconstruction and realignment	"	495,467
"	9	Bridge over Hogues Creek, 21.9 km north of Glen Innes	Widening	"	84,078
Singleton	9	35.7 km to 45.1 km north of Maitland	Reconstruction and bituminous surfacing	"	254,350
"	9	65.5 km to 80.68 km north of Maitland (Liddell deviation)	Strengthening of pavement with asphaltic concrete	"	77,470
"	9	67.9 km to 77.1 km north of Maitland (Liddell deviation)	Repair of guardrail	"	44,529
Tamarang	9	48.7 km to 57.8 km north of Murrurundi	Reconstruction and bituminous surfacing	"	28,450
Tamworth	9	Barnes Gully, 0.9 km south of Tamworth	Widening of bridge	"	80,048
"	9	Goonoo Goonoo Creek, 0.8 km south of Tamworth	"	"	53,822
"	9	Gipps St to Bridge St, West Tamworth	Reconstruction and dual carriageway	Council	4,955
"	9	152.63 km to 154.15 km north of Muswellbrook	Reinforced concrete box culverts	"	16,687
Tenterfield	9	Molesworth St to Petre St, Tenterfield	Reconstruction and bituminous surfacing	"	3,021
"	9	Browns Creek, 9.0 km north of Tenterfield	Prestressed concrete bridge	Department	84,603
"	9	3.2 km to 15.3 km south of Tenterfield	Reconstruction, widening and climbing lanes	"	760,500
"	9	44.3 km to 46.5 km north of Glen Innes	Pavement strengthening and widening	"	256,991
"	9	8.5 km to 9.5 km north of Tenterfield, Browns Creek Bridge	Approaches	"	5,775
"	9	4.0 km north of Tenterfield	Railway level crossing	"	8,925
Uralla	9	90.0 km to 94.84 km north of Tamworth	Deviation	"	995,658
"	9	Bridge over Uralla Creek, 89.24 km to 89.94 km north of Tamworth	Approaches	"	27,197
"	9	Rocky Creek, 90.41 km north of Tamworth	Reinforced concrete box culvert	"	142,037
"	9	Uralla Creek, Bridge St, Uralla	Reinforced concrete box culvert	"	152,276
					<u>5,889,328</u>
<b>Pacific Highway</b>					
Wyong	10	Kangy Angy Creek, 3.0 km south of Tuggerah	Reinforced concrete bridge	Department	27,649
"	10	102.4 km to 104.0 km north of Sydney	Pavement strengthening and widening	"	1,291
"	10	13.71 km to 14.83 km north of Gosford	Reconstruction and bituminous surfacing	"	294,774
"	10	Johnson Rd, Tuggerah, 20.0 km north of Gosford	Slow vehicle lane	"	175,073

\*Credit



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(A) SCHEDULE 2 — CONSTRUCTION OF NATIONAL HIGHWAYS — continued</b>					<b>\$</b>
<b>(iii) COUNTRY RURAL AREA — (b) STATE HIGHWAYS — continued</b>					
<b>New England Highway — continued</b>					
Wyong	10	Bridge over Kangy Angy Creek, 16.6 km north of Gosford	Approaches	Department	47,837
"	10	117.34 km to 125.83 km north of Sydney	Dual carriageway	"	14,685
"	10	99.0 km to 101.6 km north of Sydney	Reconstruction and widening	"	18,720
"	10	12.2 km to 32.2 km north of SH26	Widening of existing pavement	"	32,580
"	10	Wallarah Hill, 34.1 km to 36.2 km north of Gosford	Slow vehicle lane	"	86,012
"	10	109.66 km to 111.0 km north of Sydney	Slow vehicle lane (including reconstruction from Kanwal to MR509)	"	30,640
					<u>729,241</u>
<b>Barton Highway</b>					
Goodradigbee	15	5.0 km to 29.0 km south of Yass	Strengthening of pavement and improvement of drainage	Department	397,836
Yarrowlumla					<u>397,836</u>
<b>State Highway No. 28</b>					
Wyong	26	98.1 km to 98.9 km north of Sydney	Widening to four lanes	Department	584,940
"	26	Bridge over Ourimbah Creek Rd, 98.2 km north of Sydney	Widening	"	52,953
					<u>637,893</u>
<b>Total State Highways</b>					<u><u>27,343,091</u></u>

**(B) SCHEDULE 4 — CONSTRUCTION OF NATIONAL COMMERCE ROADS**

**(i) COUNTY OF CUMBERLAND AREA**

**(a) TRUNK AND ORDINARY MAIN ROADS**

Botany	170	Bunnerong main drain, Banksmeadow	Reinforced concrete bridge	Department	81,949
"	616	Bunnerong Creek, Banksmeadow	Approaches to bridge	"	1,575
"	617	Approaches to railway overbridge	Six lane carriageway	"	1,468,151
"	617	MR170 to MR194	"	"	2,276,156
"	617	General Holmes Dr at Botany	Structure over southern suburbs sewer (southbound traffic)	"	335,864
"	617	Northern sewer main	Prestressed concrete plank bridge	"	58,335
"	617	Sewer main outfall, southbound carriageway	Prestressed concrete girder bridge	"	173,730
"	617	Southern sewer main	Prestressed concrete plank bridge	"	51,753
"	617	General Holmes Dr at Botany	Structure over southern suburbs sewer (curved section)	"	58,530
"	617	Millpond Creek on Foreshore Rd	Prestressed concrete bridge	"	337,617
Randwick	170	Beauchamp Rd to Bumborah Point Rd, Randwick	Restoration of pavement	"	19,563
"	616	Bunnerong Creek, Matraville	Prestressed concrete bridge	"	49,424
<b>Total Trunk and Ordinary Main Roads</b>					<u><u>4,912,647</u></u>

**(ii) COUNTRY URBAN AREA**

**(a) TRUNK AND ORDINARY MAIN ROADS**

Wollondilly	95	Main Southern railway line, 5.1 km east of Picton	Erection and dismantling of Bailey bridging (temporary access)	Department	32,637
<b>Total Trunk and Ordinary Main Roads</b>					<u><u>32,637</u></u>

**(iii) COUNTRY RURAL AREA**

**(a) TRUNK AND ORDINARY MAIN ROADS**

Wollondilly	95	Wollondilly Bridge over Nepean River at Maldon	Site preparation — miscellaneous work at abutments	Department	5,992
"	95	Nepean River at Maldon	Prestressed concrete girder bridge	"	70,069
"	95	Bridge over Nepean River at Maldon	Approaches	"	1,031,415
"	95	Southern railway line, 5.1 km east of Picton	Railway overbridge	"	143,583
<b>Total Trunk and Ordinary Main Roads</b>					<u><u>1,251,059</u></u>

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal of Shire Area	Road No.	Location of Work	Class of Construction	Construction Authority	Amount 1977/78
<b>(C) SCHEDULE 6 — CONSTRUCTION OF RURAL ARTERIAL ROADS</b>					<b>\$</b>
<b>(I) COUNTRY RURAL AREA</b>					
<b>(a) STATE HIGHWAYS</b>					
<b>Princes Highway</b>					
Imlay	1	Freshwater Creek at Eden	Reinforced concrete box culvert	Department	94,435
Shoalhaven	1	62.9 km to 64.0 km south of Wollongong	Reconstruction of damaged pavement	..	268,632
..	1	7.3 km to 9.2 km south of Nowra	Reconstruction and widening	..	81,083
					<u>444,150</u>
<b>Snowy Mountains Highway</b>					
Monaro	4	59.9 km to 63.5 km west of Bega	Improvement of drainage	Department	114,332
					<u>114,332</u>
<b>Great Western Highway</b>					
Blaxland	5	Bridge over River Lett at Hartley, 129.6 km west of Sydney	Approaches	Department	601,259
					<u>601,259</u>
<b>Mid Western Highway</b>					
Abercrombie	6	21.4 km to 23.3 km west of Bathurst	Provision of slow vehicle lane and strengthening of pavement	Department	193,341
Lyndhurst	6	28.32 km to 33.15 km west of Bathurst	Strengthening of pavement	..	211,016
Waugoola	6	10.3 km to 12.7 km east of Cowra	Widening and strengthening of pavement	Council	85,928
					<u>490,285</u>
<b>Barrier Highway</b>					
Broken Hill	8	3.6 km to 4.7 km west of Broken Hill	Reconstruction, including kerb and guttering	Council	39,869
Central Darling	8	Bridges over Darling River flood plain, 1.0 km to 7.0 km east of Wilcannia	Approaches	Department	305,121
..	8	Darling River flood plain, 6.4 km east of Wilcannia	Reinforced concrete bridge	..	108,030
..	8	Darling River flood plain, 5.9 km east of Wilcannia	..	..	18,779
..	8	Darling River flood plain, 3.7 km east of Wilcannia	..	..	5,004
..	8	Darling River flood plain, 1.6 km east of Wilcannia	..	..	4,385
Cobar	8	81.4 km to 108.5 km and 130.0 km to 131.4 km west of Nyngan	Reconstruction and widening	..	277,313
					<u>758,501</u>
<b>Pacific Highway</b>					
Ballina	10	Richmond River at Wardell	Strengthening and reconstruction of fender system	Department	129,406
Bellingen	10	McGraths Creek, 25.7 km north of Macksville	Reinforced concrete box culvert	..	143,676
..	10	95.65 km to 96.55 km north of Kempsey	Strengthening of pavement and provision of climbing lane	..	217,645
..	10	Bridge over McGraths Creek, 81.0 km to 81.1 km north of Kempsey	Approaches	..	29,737
Byron	10	27.3 km to 32.1 km north of Ballina	Strengthening of pavement	..	287,855
Coffs Harbour	10	19.0 km to 24.17 km north of Coffs Harbour	Reconstruction and bituminous surfacing	..	454,930
..	10	South Boambee flood channel, 108.8 km to 108.9 km north of Kempsey	Approaches to bridge	..	97,512
Great Lakes	10	104.2 km to 106.4 km north of Newcastle	Reconstruction and widening	..	77,090
Manning	10	2.4 km north of Taree	Widening of railway overbridge	Council	51,051
Port Stephens	10	106.4 km to 110.7 km north of Newcastle	Strengthening of pavement	Department	486,894
Taree	10	Browns Creek, Victoria St, Taree	Prestressed concrete bridge	Council	92,990
..	10	Browns Creek Bridge to Oxley St, Taree	Reconstruction and widening	..	57,065
Tweed	10	77.0 km to 78.2 km north of Ballina	Strengthening of pavement and bituminous surfacing	Department	93,425
..	10	Condong Village, 4.1 km to 6.9 km north of Murwillumbah	Deviation	..	173,891



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(C) SCHEDULE 6 — CONSTRUCTION OF RURAL ARTERIAL ROADS — continued</b>					<b>\$</b>
<b>(I) COUNTRY RURAL AREA — continued</b>					
<b>(a) STATE HIGHWAYS — continued</b>					
Ulmarra	10	40.6 km to 43.6 km south of Grafton	Reconstruction and bituminous surfacing	Department	343,846
Wyong	10	10.5 km to 11.3 km north of Gosford	"	"	82,093
					<u>2,819,106</u>
<b>Oxley Highway</b>					
Coonabarabran	11	Bridge over Coxs River, 38.49 km to 38.98 km from Gunnedah	Approaches	Department	77,082
"	11	61.14 km to 67.32 km east of Coonabarabran	Reconstruction and realignment	"	105,379
Liverpool Plains	11	60.0 km to 62.7 km west of Tamworth	Strengthening and widening	Council	66,980
"	11	50.7 km to 56.9 km west of Tamworth	Reconstruction and widening	"	45,564
"	11	42.45 km to 44.41 km west of Tamworth	Reconstruction and bituminous surfacing	"	116,417
					<u>411,422</u>
<b>Gwydir Highway</b>					
Macintyre	12	14.8 km to 17.4 km west of Inverell	Reconstruction and widening	Council	35,809
Nymboida	12	22.9 km to 69.5 km west of Grafton	Strengthening of pavement	Department	89,774
Severn	12	5.73 km to 12.31 km west of Glen Innes	Reconstruction of existing pavement	Council	141,250
"	12	16.8 km to 17.8 km and 37.4 km to 38.8 km east of Glen Innes	Strengthening and widening of pavement	Department	107,740
Yallaroi	12	0.38 km to 2.65 km east of Wyallda	Strengthening and widening of existing pavement	Council	120,377
					<u>494,950</u>
<b>Sturt Highway</b>					
Kyeamba	14	70.8 km to 81.9 km west of Tumut	Reconstruction and bituminous surfacing	Department	552,740
"	14	Kyeamba Creek flood channel, 13.4 km east of Wagga Wagga	Reinforced concrete bridge	"	272,942
"	14	Kyeamba Creek, 14.0 km east of Wagga Wagga	Prestressed concrete bridge	"	52,902
"	14	Mates Gully, 32.5 km east of Wagga Wagga	Reinforced concrete bridge	"	44,359
"	14	Coreinbob Creek, 32.2 km east of Wagga Wagga	"	"	40,046
Mitchell	14	Prajoel Causeway, 51.35 km west of Wagga Wagga	Prestressed concrete bridge	"	77,511
Wagga Wagga	14	Edward St, Wagga Wagga	Railway subway	Council	66,833
Wakool	14	28.96 km to 33.80 km east of Balranald	Reconstruction, widening and bituminous surfacing	Department	542,685
					<u>1,650,018</u>
<b>Bruxner Highway</b>					
Lismore	16	Ballina St, Lismore, 31.3 km to 31.9 km west of Ballina	Reconstruction and bituminous surfacing	Council	76,473
"	16	Hunter St to Brønster St, Lismore	"	"	164,533
Richmond River	16	16.9 km to 17.7 km west of Lismore	"	"	39,869
Tenterfield Shire	16	11.16 km to 14.0 km west of Tenterfield	Strengthening and widening of pavement	"	129,859
"	16	9.65 km to 11.16 km west of Tenterfield	"	"	53,538
Yallaroi	16	Otteleys Creek Bridge, 16.58 km to 17.35 km west of Yetman	Approaches	"	79,738
					<u>544,010</u>
<b>Newell Highway</b>					
Berrigan	17	2.4 km to 8.7 km north of Finley	Widening and bituminous surfacing	Department	277,535
					<u>277,535</u>
<b>Castlereagh Highway</b>					
Walgett	18	55.4 km north of Walgett at Warrambool	Reconstruction and lowering of floodways	Department	172,213

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(C) SCHEDULE 6 — CONSTRUCTION OF RURAL ARTERIAL ROADS — continued</b>					\$
<b>(i) COUNTRY RURAL AREA — continued</b>					
<b>(a) STATE HIGHWAYS — continued</b>					
Walgett	18	55.84 km north of Walgett at thirty-five mile Warrambool (north)	Prestressed concrete bridge	Department	152,474
"	18	54.97 km north of Walgett at thirty-five mile Warrambool (south)	"	"	98,314
					<u>423,001</u>
<b>Monaro Highway</b>					
Bombala	19	17.0 km to 34.3 km south of Bombala	Reconstruction	Council	576,385
Monaro	19	Jacks Gully at Bredbo	Reinforced concrete box culvert	Department	170,603
"	19	101.64 km to 103.74 km south of Canberra	Improvement of drainage and widening of formation	"	268,822
					<u>1,015,810</u>
<b>Cobb Highway</b>					
Central Darling	21	34.2 km to 55.6 km south of Wilcannia	Reconstruction and bituminous surfacing	Department	349,451
					<u>349,451</u>
<b>Total State Highways</b>					<u>10,393,830</u>
<b>(b) TRUNK AND ORDINARY MAIN ROADS</b>					
Abercrombie	54	49.0 km to 50.6 km south of Bathurst	Reconstruction and bituminous surfacing	Council	84,649
Ashford	137	Bridge over Myall Creek, 17.16 km to 19.15 km north of Ashford	Approaches	"	65,247
Bairnald	67	39 km to 41 km north of Bairnald	Reconstruction and bituminous surfacing	"	74,042
Barraba	63	15.33 km to 17.97 km south of Barraba	Restoration of pavement	"	44,425
Bathurst City	253	3.3 km east of Bathurst at Kelso	Elimination of level crossing	"	57,279
Berrigan	363	8.0 km to 12.1 km north of MR550 at Barooga	Reconstruction and bituminous surfacing	"	82,016
Bingara	134	17.82 km to 24.0 km north east of Bingara	"	"	128,720
"	134	20.0 km to 23.98 km north of Bingara	"	"	39,869
Blayney	371	10.6 km to 18.3 km north of Rankin Springs	"	"	46,260
Blaxland	531	10.3 km to 12.6 km north of SH5	"	"	48,982
Bogan	70	24.14 km to 26.36 km east of Coolabah	"	"	103,659
Bombala	91	22.65 km to 25.65 km east of Bombala	Reconstruction	"	146,870
Boorowa	248	12.6 km to 17.4 km east of Boorowa	Reconstruction and bituminous surfacing	"	78,599
"	248	Gunnary Creek, 16.5 km east of Boorowa	Prestressed concrete bridge	"	122,600
Boree	377	57.7 km to 61.7 km west of Orange	Reconstruction and bituminous surfacing	"	91,129
Bourke	405	Paroo River and bywash, bridges Nos. 1 and 2	Approaches	"	83,155
Brewarrina	70	26.6 km to 41.4 km north of Brewarrina	Gravelling and primer sealing of various sections	"	84,294
Byron	65	23.49 km to 26.63 km east of Lismore	Reconstruction and bituminous surfacing	"	58,966
Cabonne	234	28.84 km to 31.63 km north of SH7	"	"	56,956
Carathool	244	0.0 km to 3.0 km north of Carrathool	"	"	87,712
Cobar	411	0.15 km to 2.0 km west of Euabalong	"	"	57,443
Coffs Harbour	151	64.1 km to 65.8 km south of Grafton	"	"	79,935
Colo	503	Howes Creek, 11.0 km north of Windsor	Prestressed concrete bridge	Department	182,572
"	503	Bridge over Howes Creek, 10.9 km to 11.7 km north of Windsor	Approaches	"	381,855
Coolamon	398	Smokey Creek, 28.37 km north of Coolamon	Reinforced concrete box culvert	Council	74,042
"	398	29.24 km to 32.97 km north of Coolamon	Reconstruction and bituminous surfacing	"	42,673
Coonamble	129	Nebaa Creek, 18.3 km east of Coonamble	Construction of bridge	"	113,911
"	383	15.9 km to 20 km north of Coonamble	Reconstruction and bituminous surfacing	"	102,021
Copmanhurst	150	70.81 km to 75.32 km north of Grafton	"	"	88,851



**APPENDIX No. 5 — continued  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(C) SCHEDULE 6 — CONSTRUCTION OF RURAL ARTERIAL ROADS — continued</b>					<b>\$</b>
<b>(i) COUNTRY RURAL AREA — continued</b>					
<b>(b) TRUNK AND ORDINARY MAIN ROADS — continued</b>					
Culcairn	78	1.0 km to 2.5 km south of Culcairn	Reconstruction and bituminous sealing	Council	132,979
Deniliquin	552	2.21 km to 2.96 km north of Deniliquin	Widening of formation and bituminous surfacing	"	45,564
Eurobodalla	271	Kiora Bridge over Moruya River, 3.94 km west of Moruya	Prestressed concrete bridge	"	195,893
Gilgandra	77	34.5 km to 37.6 km east of Gilgandra	Reconstruction and bituminous surfacing	"	113,342
Goobang	238	Flagstone Creek, 9.75 km south of Parkes	5 span prestressed concrete bridge	"	91,129
Goodradigbee	52	0 km to 4.0 km south of Gundaroo Bridge	Reconstruction and bituminous surfacing	"	50,690
Gosford	225	38.4 km to 43.3 km north of Wisemans Ferry at Greens Pinch	"	"	91,129
"	349	Bridge over Coorumbene Creek, 0.8 km to 1.0 km south of Gosford	Approaches	"	95,475
"	349	Coorumbene Creek, 0.5 km south of Gosford	Prestressed concrete bridge	"	93,276
Great Lakes	90	Camerons Creek, 7.7 km south of Booral	"	"	153,780
"	90	Bridge over Camerons Creek, 15.92 km to 16.92 km north of SH10	Approaches	"	51,260
Gundurimba	544	9.96 km to 11.85 km west of Lismore	Reconstruction and bituminous surfacing	"	60,373
Gunning	52	20.5 km to 21.8 km south of Gunning	"	"	95,685
Hay	514	68.8 km to 73.0 km west of Hay	"	"	67,208
Jemalong	377	Reinforced concrete box culvert, 11.2 km to 13.4 km west of Forbes	Approaches	"	82,097
Jerilderie	552	0 km to 2.5 km west of Jerilderie	Reconstruction and bituminous surfacing	"	80,392
Kempsey	75	Hickeys Creek Bridge, 31.8 km west of Kempsey	Approaches	"	91,129
Kyogle	83	27.6 km to 28.5 km north of Kyogle, including culvert at Littles Creek	Reconstruction and bituminous surfacing	"	35,882
Liverpool Plains	55	20.0 km to 25.0 km south of Mullaley	Reconstruction and bituminous surfacing	"	53,823
"	55	22.86 km to 27.20 km south of SH11 at Mullaley	"	"	70,625
Manilla	357	12.87 km to 16.58 km west of Manilla	"	"	101,309
Merriwa	358	Coulsons Creek, 9.98 km to 12.07 km north of Merriwa	Deviation around two causeways (double crossing)	"	86,573
Mitchell	78	12.36 km to 15.74 km north of Wagga Wagga	Reconstruction and bituminous surfacing	"	86,448
Mulwaree	268	2.36 km to 5.10 km south of Tarago	Reconstruction and bituminous surfacing	"	74,042
Mumbulla	272	Long Swamp, 2.5 km to 9.0 km north of Bermagui	Deviation	"	202,762
Murrumbidgee	321	Bridges over Murrumbidgee River at Darlington Point	Approaches	"	170,867
Namoi	127	10.4 km to 12.18 km west of Wee Waa	Reconstruction and bituminous surfacing	"	77,460
Narraburra	398	19.0 km to 23.7 km south of Arianah Park	"	"	48,517
Nundle	106	28.5 km to 30.5 km south of Nundle	"	"	68,347
"	106	Nundle Creek, 3.0 km west of Nundle	Prestressed concrete bridge	"	125,302
Nymboida	74	Cockatoo Creek, 84.8 km to 85.5 km south of Grafton	Reinforced concrete box culvert and approaches	"	72,719
"	74	98.93 km to 105.78 km south of Grafton	Reconstruction and bituminous surfacing	"	57,679
Oberon	256	41.27 km to 42.00 km south of Oberon	"	"	47,419
Parry	63	20.70 km to 21.96 km north of Tamworth	"	"	88,566
Patrick Plains	503	Mellong Creek, 91.5 km, and Kangaroo Waterholes, 93.2 km south of Singleton	Reinforced concrete box culverts and approaches	Department	149,970
Richmond River	83	95.35 km to 96.2 km north of Grafton	Reconstruction and bituminous surfacing	Council	52,399
Rylstone	54	11.84 km to 12.8 km west of Ilford	Reconstruction and bituminous surfacing	"	103,090

**APPENDIX No. 5 — continued  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(C) SCHEDULE 6 — CONSTRUCTION OF RURAL ARTERIAL ROADS — continued</b>					<b>\$</b>
<b>(i) COUNTRY RURAL AREA — continued</b>					
<b>(b) TRUNK AND ORDINARY MAIN ROADS — continued</b>					
Scone	62	40.51 km to 42.51 km west of Scone	"	Council	77,654
Shoalhaven	267	6.1 km to 7.7 km west of Huskisson	"	"	77,460
Snowy River	286	41.6 km to 42.8 km west of Cooma	Widening of formation and pavement	"	45,564
Tallaganda	51	0 km to 24.0 km west of Braidwood	Reconstruction and bituminous surfacing	"	34,173
Tamarang	72	Bridge over Quipolly Creek, 13.70 km to 15.25 km north of Quirindi	Approaches	"	253,480
Terania	142	38.0 km to 41.28 km north of Lismore	Reconstruction and bituminous surfacing	"	74,783
Timbregongie	354	21.2 km to 28.9 km from Narromine towards Tullamore	"	"	85,433
Turon	54	44.3 km to 47.0 km north of Bathurst	"	"	96,318
Tweed	142	29.45 km to 30.62 km south of Murwillumbah	"	"	79,738
Urana	323	23.0 km to 33.6 km west of MR131	"	"	65,104
Wakool	319	Bridge over Barber Creek, 8.0 km north of Barham	Approaches	"	74,042
"	386	29.5 km to 34.5 km west of Moulamein	Reconstruction and bituminous surfacing	"	80,217
Walgett	426	SH18 to Lightning Ridge	Construction and sealing on new alignment	"	127,926
Wentworth	68	78.3 km to 81.45 km north of Wentworth	Reconstruction and bituminous surfacing	"	76,321
Wingecaribee	265	Kellys Creek, 1.6 km south of Moss Vale	Reinforced concrete box culvert	"	34,173
Wyong	335	Killamey St to Norton St, Killamey Vale	Reconstruction and widening	"	171,436
"	336	3.41 km to 4.10 km south of MR335	Reconstruction and bituminous surfacing facing	"	78,416
<b>Total Trunk and Ordinary Main Roads</b>					<b><u>7,606,170</u></b>



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

Council	General Grants for		Restoration of	Western Division	Total
	Construction and Maintenance		Flood Damage	Shires	
	Item 3	Item 5	Item 9	Item 16	
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS</b>					
<b>(a) Items 3, 5, and 16 — General Grants and Item 9 — Restoration of Flood Damage</b>					
	\$	\$	\$	\$	\$
Armidale City .....	—	24,000	—	—	24,000
Ashford .....	122,400	—	—	—	122,400
Ballina .....	165,000	800	—	—	165,800
Balranald .....	149,800	—	—	10,000	159,800
Barraba .....	129,300	—	—	—	129,300
Bathurst City .....	—	36,195	—	—	36,195
Bega .....	—	36,200	—	—	36,200
Bellingen .....	210,000	—	—	—	210,000
Berrigan .....	145,900	—	—	—	145,900
Bingara .....	139,800	—	—	—	139,800
Blayney .....	129,982	—	—	—	129,982
Bland .....	210,000	—	12,608	—	222,608
Blue Mountains .....	54,150	—	—	—	54,150
Bogan .....	124,300	—	—	10,000	134,300
Bombaia .....	192,900	18,900	—	—	211,800
Bookooroo .....	155,400	—	—	—	155,400
Boomi .....	165,600	—	—	—	165,600
Boorowa .....	173,100	—	1,367	—	174,467
Bourke .....	212,000	—	—	10,000	222,000
Bowral .....	—	41,000	—	—	41,000
Brewarrina .....	138,900	—	—	10,000	148,900
Broken Hill .....	—	22,400	—	—	22,400
Burrangong .....	133,100	—	—	—	133,100
Byron .....	159,300	—	—	—	159,300
Cabonne .....	487,450	—	—	—	487,450
Carrathool .....	146,500	—	—	10,000	156,500
Casino .....	—	41,000	—	—	41,000
Central Darling .....	212,000	—	—	10,000	222,000
Cobar .....	212,000	—	—	10,000	222,000
Coffs Harbour .....	200,910	—	—	—	200,910
Colo .....	210,000	—	—	—	210,000
Conargo .....	121,500	—	—	—	121,500
Coolah .....	183,700	—	—	—	183,700
Coolamon .....	113,600	—	—	—	113,600
Cooma .....	—	19,800	—	—	19,800
Coonabarabran .....	210,000	—	—	—	210,000
Coonamble .....	190,600	—	—	—	190,600
Cootamundra .....	122,200	—	—	—	122,200
Copmanhurst .....	174,700	—	—	—	174,700
Corowa .....	140,000	—	—	—	140,000
Cowra .....	—	20,800	—	—	20,800
Crookwell .....	172,700	—	—	—	172,700
Culcairn .....	142,100	—	—	—	142,100
Deniliquin .....	—	36,500	—	—	36,500
Denman .....	153,200	—	—	—	153,200
Dubbo .....	—	18,600	—	—	18,600
Dumaresq .....	200,200	—	—	—	200,200
Dungog .....	210,000	—	—	—	210,000
Eurobodalla .....	186,600	—	—	—	186,600
Forbes .....	346,705	29,900	—	—	376,605
Gilgandra .....	146,100	—	—	—	146,100
Glen Innes .....	—	41,000	—	—	41,000
Gloucester .....	210,000	—	—	—	210,000
Goobang .....	168,400	—	45,340	—	213,740
Goodradigbee .....	122,500	—	—	—	122,500
Gosford .....	210,000	—	—	—	210,000
Goulburn City .....	—	27,000	—	—	27,000
Grafton City .....	—	41,000	—	—	41,000
Great Lakes .....	188,700	—	—	—	188,700
Greater Cessnock .....	117,500	—	—	—	117,500
Gundagai .....	125,000	—	—	—	125,000
Gunnedah .....	—	10,750	—	—	10,750

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

Council	General Grants for Construction and Maintenance Item 3	Item 5	Restoration of Flood Damage Item 9	Western Division Shires Item 16	Total
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>					
<b>(a) Items 3, 5, and 16 — General Grants and Item 9 — Restoration of Flood Damage — continued</b>					
	\$	\$	\$	\$	\$
Gunning.....	118,900	—	9,735	—	128,635
Guyra.....	210,000	—	—	—	210,000
Harden.....	134,300	—	—	—	134,300
Hastings.....	210,000	—	—	—	210,000
Hay.....	143,100	—	—	10,000	153,100
Holbrook.....	135,300	—	671	—	135,971
Hume.....	210,000	—	1,607	—	211,607
Illabo.....	126,000	—	—	—	126,000
Imlay.....	210,000	—	—	—	210,000
Inverell.....	—	41,000	—	—	41,000
Jemalong.....	182,700	—	—	—	182,700
Jerilderie.....	109,000	—	—	—	109,000
Junee.....	—	20,800	—	—	20,800
Kempsey.....	237,600	—	—	—	237,600
Kyeamba.....	154,600	29,169	—	—	183,769
Kyogle.....	210,000	—	—	—	210,000
Lachlan.....	223,300	—	—	—	223,300
Leeton.....	129,800	—	—	—	129,800
Lismore.....	350,000	—	—	—	350,000
Lithgow.....	80,850	—	—	—	80,850
Liverpool Plains.....	91,443	—	—	—	91,443
Lockhart.....	112,100	—	—	—	112,100
Macintyre.....	203,200	—	—	—	203,200
Maclean.....	187,600	—	—	—	187,600
Manilla.....	133,600	—	725	—	134,325
Manning.....	210,000	—	—	—	210,000
Merriwa.....	146,100	—	—	—	146,100
Mitchell.....	138,900	—	—	—	138,900
Mittagong.....	150,100	—	—	—	150,100
Monaro.....	198,400	—	—	—	198,400
Moree.....	—	17,400	—	—	17,400
Mudgee.....	105,000	—	—	—	105,000
Mullumbimby.....	—	41,000	—	—	41,000
Mulwaree.....	210,000	—	—	—	210,000
Mumbulla.....	210,000	—	8,155	—	218,155
Murray.....	139,399	—	—	—	139,399
Murrumbidgee.....	104,000	—	—	—	104,000
Murrurundi.....	158,200	—	—	—	158,200
Muswellbrook Munic.....	—	19,600	—	—	19,600
Nambucca.....	210,000	—	—	—	210,000
Naroi.....	210,000	—	—	—	210,000
Narrabri.....	—	23,900	—	—	23,900
Narraburra.....	144,000	—	—	—	144,000
Narrandera.....	169,100	—	—	—	169,100
Narromine.....	—	15,500	—	—	15,500
Nundle.....	93,150	—	—	—	93,150
Nymboida.....	210,000	—	—	—	210,000
Oberon.....	192,700	—	—	—	192,700
Orange.....	—	38,168	—	—	38,168
Parkes.....	—	16,900	—	—	16,900
Parry.....	108,953	—	67,620	—	176,573
Port Macquarie.....	—	20,500	—	—	20,500
Queanbeyan.....	—	19,500	—	—	19,500
Quirindi.....	—	19,200	550	—	19,750
Richmond River.....	280,000	—	—	—	280,000
Rylstone.....	99,050	—	—	—	99,050
Scone.....	206,600	—	—	—	206,600
Severn.....	210,000	—	3,000	—	213,000
Shoalhaven.....	210,000	—	—	—	210,000
Singleton.....	210,000	—	—	—	210,000
Snowy River.....	209,100	—	—	—	209,100
Talbragar.....	138,300	—	—	—	138,300



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for construction and Reconstruction Works

Council	General Grants for		Restoration of	Western Division	Total
	Construction and Maintenance		Flood Damage	Shires	
	Item 3	Item 5	Item 9	Item 16	
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>					
<b>(a) Items 3, 5, and 16 — General Grants and Item 9 — Restoration of Flood Damage — continued</b>					
	\$	\$	\$	\$	\$
Tallaganda.....	160,100	—	—	—	160,100
Tamarang.....	74,950	—	16,050	—	91,000
Tamworth.....	—	15,150	2,466	—	17,616
Taree.....	—	35,100	—	—	35,100
Temora.....	—	25,400	—	—	25,400
Tenterfield Shire.....	210,000	—	—	—	210,000
Timbregongie.....	141,900	—	—	—	141,900
Tumbarumba.....	140,300	—	—	—	140,300
Tumut.....	183,500	—	—	—	183,500
Tweed.....	210,000	—	—	—	210,000
Ulmarra.....	210,000	—	—	—	210,000
Uralla.....	190,300	—	—	—	190,300
Urana.....	138,400	—	—	—	138,400
Wade.....	162,000	—	—	—	162,000
Wagga Wagga.....	—	22,400	—	—	22,400
Wakool.....	182,100	—	—	—	182,100
Waicha.....	207,900	—	—	—	207,900
Walgett.....	212,000	—	—	10,000	222,000
Warren.....	151,700	—	—	—	151,700
Waugoola.....	159,300	—	—	—	159,300
Weddin.....	162,200	—	—	—	162,200
Wellington.....	180,700	—	—	—	180,700
Wentworth.....	192,700	—	—	10,000	202,700
Windouran.....	119,300	—	—	—	119,300
Wingham.....	—	24,900	—	—	24,900
Wingecambee.....	167,500	—	—	—	167,500
Wollondilly.....	210,000	—	—	—	210,000
Wyong.....	183,300	—	118,192	—	301,492
Yallaro.....	185,700	—	—	—	185,700
Yarrowlumia.....	139,432	—	—	—	139,432
Yass.....	—	20,900	—	—	20,900
Young.....	—	22,100	—	—	22,100
<b>Total</b>	<b>21,185,524</b>	<b>954,432</b>	<b>288,086</b>	<b>100,000</b>	<b>22,528,042</b>

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>				<b>\$</b>
<b>(b) Item 8 — Bridges to Replace Ferries</b>				
Kempsey	Macleay River at Jerseyville	Prestressed and reinforced concrete bridge	Council	43,335
"	Jerseyville Bridge	Bridge to replace ferries	"	46,358
Maclean	Clarence River Bridge	"	"	6,801
"	Warregah Island, North Arm, Clarence River	Prestressed and reinforced concrete bridge	"	14,193*
<b>Total</b>				<b>82,301</b>

\* Credit

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>					<b>\$</b>
<b>(c) Item 14 — Bridge Subsidy Scheme</b>					
Ashford		Upper Severn River Rd, Frazers Creek	Reinforced concrete bridge	Council	2,500
Boorowa		Gunnary-Frogmore Rd, Little Plains Creek	3 cell reinforced concrete box culvert	"	6,000
Burrangong		Old Forbes Rd over Burrangong Creek	Reinforced concrete bridge	"	8,227
Cockburn		Sandy Creek at Kootingal	"	"	3,953*
Condobolin		Wallamundry Creek, 21.5 km south east of Condobolin	"	"	25,000
Culcairn		Goombargana Creek on Triggs Rd	"	"	789
Dungog		Sandy Creek, 1.61 km south of Wallarobba	Prestressed concrete bridge	"	7,126
Great Lakes		Bunyah Rd, Horse Creek, 12.5 km from Coolongolook	Reinforced concrete bridge	"	14,999
Kyeamba		Blackflat Bridge over Umbango Creek	"	"	23,537
Mumbulla		Yourie Rd, Illawambra Creek	"	"	2,507
"		Tathra-Tanja Rd, Nelson and Waterloo Creeks	"	"	37,000
Murray		Lower Thule Rd, Axe Creek	"	"	32,378
"		Aerodrome Rd, Garlandtown	"	"	15,000
Murrurundi		Blandford Timor Rd, Green Creek	3 cell reinforced concrete box culvert	"	20,000
Narraburra		Narraburra Creek, 9.7 km south east of Temora	Reinforced concrete box culvert	"	1,184
Narrandera		Old Man Creek, Brewarrena Bridge	Reinforced concrete bridge	"	12,828
Richmond River		Shannonbrook Road, Thomas Bridge over Deep Creek	"	"	39,733
Scone		Kingdom Ponds on Turnaville Rd	"	"	1,695*
Tweed		Tweed Heads to Piggabeen, Humpy back over Cobaki Creek	"	"	6,019*
"		Rous River at Chillingham	"	"	950*
<b>Total</b>					<b>236,191</b>
 <b>(d) Item 23 — Developmental Roads, Country Rural Area</b>					
Blue Mountains	1195	2.58 km to 12.87 km south of Blackheath	Formation and gravelling	Council	139*
Guyra	3217	Washpool Creek, 5.19 km east of Guyra	Reinforced concrete box culvert	"	73,000
Maclean	1203	Tabbimoble Creek, 4.19 km west of SH10	Construction of levee bank and restoration of flood damage	"	355
Manilla	3208	11.9 km to 14.8 km from Barraba Shire Boundary	Formation and gravelling	"	50,000*
Monaro	1268	33.0 km to 35.7 km north of Kybeyan	Formation widening, clearing and construction	"	20,000
Murray	1237	Cooley-Hoo Creek	Bridge and approaches	"	1,148*
Murrumbidgee	3216	Wyaldra Creek, 4.0 km north of Gulgong	Reinforced concrete bridge	"	5,000*
Snowy River	1297	Bridge over Pinch River, 10.2 km south of Jacobs River	Supply of steel for fabrication	Department	193
Tallaganda	1268	65.88 km to 66.64 km south of Braidwood	Provision of passing bays and clearing of trees	Council	24,482
"	1268	67 km to 68.17 km south of Braidwood	Reconstruction and gravel surfacing	"	4,482*
Tumbarumba	1171	0 km (MR281) to 4.83 km east of Welaregang	Formation and gravel surfacing	"	10,464
Ulmarra	1274	Amos Creek, 11.9 km to 12.8 km south of Tucabia	Reinforced concrete box culvert and approaches	"	46
Walcha	1317	30.5 km to 33.7 km south of Walcha	Formation and gravel surfacing	"	144,398*
"	1317	"	"	"	150,962
"	1317	Inglebar Creek, 31.4 km south of Walcha	Reinforced concrete bridge	"	26,700*
"	1317	"	"	"	2,272
<b>Total Developmental Roads</b>					<b>49,909</b>
 <b>(e) Item 26 — Contingencies</b>					
Hay		Shire of Hay		Council	1*
Kempsey		Shire of Kempsey		"	250*
Liverpool Plains		Shire of Liverpool Plains		"	1*
Murrumbidgee		Shire of Murrumbidgee		"	1*
Rylstone		Shire of Rylstone		"	1,800*

\* Credit



**APPENDIX No. 5 — continued  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(D) SCHEDULE 7 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>					<b>\$</b>
<b>(e) Item 26 — Contingencies — continued</b>					
Snowy River		Shire of Snowy River		Council	1*
Tenterfield		Shire of Tenterfield		"	60*
Wentworth		Shire of Wentworth		"	392
				<b>Total</b>	<b>1,722*</b>

**(f) SUMMARY**

Item		Total \$
3	Shires .....	21,185,524
5	Municipalities .....	954,432
8	Bridges to replace ferries .....	82,301
9	Restoration of flood damage .....	288,086
12	Payments to Forestry Commission .....	250,000
14	Bridge subsidy scheme .....	236,191
15	Payments to Soil Conservation Service .....	40,000
16	Western Division Shires .....	100,000
20	Reconstruction of Alpine Way in Kosciuszko National Park .....	100,000
23	Developmental roads .....	49,909
24	Maintenance of special subsidy bridges .....	401,310
25	Unclassified roads in unincorporated area of Western Division .....	282,876
26	Contingencies .....	1,722*
	Long service leave for works on developmental roads .....	676
	Engineering administration .....	162,499
	General administration .....	224,500
Total as shown in receipts and payments statement — Appendix No. 1 (A)		
	Work by Councils .....	22,975,595
	Work by Department .....	1,156,487
	General Administration .....	224,500

*Credit	<u><u>24,356,582</u></u>
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**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(E) SCHEDULE 9 — CONSTRUCTION OF URBAN ARTERIAL ROADS</b>					<b>\$</b>
<b>(I) COUNTY OF CUMBERLAND AREA</b>					
<b>(a) FREEWAYS</b>					
<b>Warringah Freeway</b>					
North Sydney	F1	West St. North Sydney	Prestressed concrete bridge	Department	99,657
"	F1	Miller St to Willoughby Rd, Naremburn	Divided two lane carriageway	"	2,583,860
Willoughby	F1	Merrenburn Ave, Naremburn	Prestressed concrete bridge	"	73,454
					<u>2,756,971</u>
<b>Sydney-Newcastle Freeway</b>					
Sydney	F3	Darling Harbour Goods Yard	Construction of deck ENW7	Department	595,893
"	F3	Druitt St, City to Bridge Rd, Glebe	Public utility adjustments, Metropolitan Water, Sewerage and Drainage Board	"	170,092
"	F3	North Western Freeway	Substructures in Darling Harbour Goods Yard	"	13,092
"	F3	Darling Harbour Goods Yard	Supply fabrication and delivery of steelwork for decks	"	338,784
"	F3	"	Public utility adjustment, Sydney County Council	"	127,217
"	F3	North Western Freeway — Bathurst St Area (B)	Foundations, substructures, viaducts and associated works	"	1,084,728
"	F3	Druitt St, City to Bridge Rd, Glebe	Public utility adjustment, Public Transport Commission	"	94,153
"	F3	Druitt St, City to Bridge Rd, Glebe	Public utility adjustment, Colonial Sugar Refinery	"	2,867
"	F3	North Western Freeway	Public utility adjustment, Sydney City Council	"	32,718
"	F3	North Western Freeway — Pymont St Area (P)	Foundations, substructures, viaducts and associated works	"	466,695
"	F3	Darling Harbour Goods Yard	Service Road	"	374
"	F3	North Western Freeway — King St Area (K)	Foundations, substructures, viaducts and associated works	"	573,625
"	F3	Druitt St, City to Bridge Rd, Glebe	Public utility adjustment, Postmaster General's Department	"	1,892
					<u>3,502,130</u>
<b>Western Freeway</b>					
Auburn	F4	Wentworth Rd to Wentworth St, Clyde	Divided two lane carriageway	Department	419,270
Strathfield					
Parramatta					
Auburn	F4	Haslams Creek stormwater channel — eastbound carriageway	Prestressed concrete bridge	"	139,244
"	F4	Melton St, Auburn	Pedestrian overbridge	"	183*
Strathfield	F4	Bridge over northern railway line at North Strathfield	Manufacture and supply of concrete girders	"	6,808
Sydney	F4	Viaduct Toll Plaza to Day St, Sydney	Post-constructional adjustments	"	84,506
					<u>649,645</u>
					<b>Total Freeways</b> <u>6,908,746</u>
<b>(b) STATE HIGHWAYS</b>					
<b>Hume Highway</b>					
Bankstown	2	Intersections with Hector St, Johnson St and Carysfield Rd, Bass Hill	Improvements	Department	243,114
Liverpool	2	Atkinson St, Liverpool to The Crossroads	Kerbside lanes and reconstruction of damaged pavement	"	140,756
					<u>383,870</u>
<b>Great Western Highway</b>					
Blacktown	5	Church Lane to Old Western Rd, Blacktown	Access ramps to Church Lane overpass and associated works	Department	434,705
					<u>434,705</u>
<b>State Highway No. 13</b>					
Parramatta	13	Marsden Rd to Carlingford Rd, Carlingford	Six lane carriageway, inc. channelisation of intersections	Department	220,348
					<u>220,348</u>
					<b>Total State Highways</b> <u>1,038,923</u>

\*Credit



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(E) SCHEDULE 9 — CONSTRUCTION OF URBAN ARTERIAL ROADS — continued</b>					<b>\$</b>
<b>(I) COUNTY OF CUMBERLAND AREA — continued</b>					
<b>(c) TRUNK AND ORDINARY MAIN ROADS</b>					
Auburn	190	Joseph St near Weeroona Rd	Widening of narrow underpass to suit divided carriageways	Council	140,907
"	190	The Boulevard to Lewis St, Lidcombe, near Amy St	Widening of narrow underpass	Department	514,685
"	190	Leila St, Lidcombe to Amy St, Regents Park	Reconstruction and widening	Council	108,878
Bankstown	167	Lloyd Ave to Boardman St, Yagoona	Dual carriageway	Department	432,357
Blue Mountains	570	0.3 km to 1.8 km north of SH5	Reconstruction and widening	Council	59,883
Camden	154	0 km to 3.4 km north of Narellan	Reconstruction of alignment and approaches to Narellan Creek Bridge	"	489,949
Campbelltown	177	Moore St to Oxley St, Campbelltown	Deviation	"	174,204
Fairfield	609	Fairfield St to Allan St, Fairfield	Duplication and lengthening of existing railway overbridge	Department	941,887
Ku-ring-gai	162	Highlands Ave to Cowan Rd, St Ives	Dual carriageway	"	1,064,244
Liverpool	154	Bridge over Thompsons Creek, 1.8 km north of Bringelly	Approaches	Council	140,268
"	515	Copeland St to Maxwell St, Liverpool	Divided carriageway	Department	569,964
"	608	Hinkler Ave to Campbell St, Liverpool	Divided six lane carriageway	"	375,384
"	608	Campbell St to Hoxton Park Rd	Divided carriageway	"	130,100
Parramatta	309	Eleanor St to Hassall St, Rosehill	Widening to six lanes	"	409,234
Penrith	155	Surveyors Creek, 2.41 km south of Penrith	Single span prestressed concrete plank bridge	Council	95,984
Sutherland	512	1.3 km to 2.4 km, 4.8 km to 5.8 km and 15.0 km to 16.1 km west of SH1	Slow vehicle lane inc. intersection with New Illawarra Rd	Department	545,728
Sydney	173	Victoria St to Kellat Ave, Kings Cross	Road tunnel	"	1,568
"	173	Kings Cross Tunnel Project	Public utility adjustment, Public Transport Commission	"	100,068
"	173	"	Approaches and ancillary works	"	35,781
"	173	"	Public utility adjustments, Postmaster General's Department	"	22,231*
Warringah	164	Old Barrenjoey Rd to Eastbourne Ave, Avalon	Reconstruction and widening	"	204,341
"	164	Campbell Parade to Kenneth Rd, Manly Vale	Dual carriageway	Council	185,092
Woollahra	173	McLean St to Ocean St, Edgecliff	Widening and associated work	Department	796,558
<b>Total Trunk and Ordinary Main Roads</b>					<b>7,494,833</b>
<b>(d) SECONDARY ROADS</b>					
Blacktown	2084	Railway overbridge at Seven Hills	Approaches	Council	96,684
"	2085	Eastern Creek, Blacktown	Prestressed concrete bridge	"	75,126
Ryde	2081	Bridge over northern railway, Eastwood	Approaches	"	151,340
"	2081	Shaftsbury Rd to Ryedale Rd, Eastwood	Public utility adjustment	"	98,770
"	2081	Trelawney St to Ryedale St, Eastwood	Reconstruction and widening of railway overbridge	Department	641,887
<b>Total Secondary Roads</b>					<b>1,063,807</b>

\* Credit

**APPENDIX No. 5 — continued  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(E) SCHEDULE 9 — CONSTRUCTION OF URBAN ARTERIAL ROADS — continued</b>					<b>\$</b>
<b>(I) COUNTY OF CUMBERLAND AREA — continued</b>					
<b>(a) ROADS OTHER THAN MAIN ROADS</b>					
Bankstown	5016	Alfords Point Bridge	Extension of northern approach	Department	231,380
Baulkham Hills	5037	Bridge over North Rocks Rd, North Parramatta	Prestressed concrete steel deck bridge	..	258,818
Parramatta	5037	Pennant Hills Rd near Burnside Homes, North Parramatta	Steel box girder underpass bridge	..	283,776
<b>Total Roads other than main roads</b>					<b>773,974</b>
<b>(II) COUNTRY URBAN AREA</b>					
<b>(a) FREEWAYS</b>					
<b>Southern Freeway</b>					
Wollongong	F6	Bridge over F6 at Kanahooka Rd, Dapto	Prestressed concrete bridge	Department	771,720
..	F6	Mullet Creek at Kembla Grange, 91.5 km south of Sydney	..	..	1,733,170
..	F6	Hermes Estate access at Figtree	Twin prestressed concrete bridges	..	1,733,170*
..	F6	Gladstone Ave to MR295	Dual carriageway	..	217,274
					<b>988,994</b>
<b>Total Freeways</b>					<b>988,994</b>
<b>(F) SCHEDULE 10 — CONSTRUCTION OF URBAN LOCAL ROADS</b>					
<b>(I) COUNTY OF CUMBERLAND AREA</b>					
<b>(a) ROADS OTHER THAN MAIN ROADS</b>					
Ashfield	Urban local roads		Annual grant 1977/78	Council	64,000
Auburn	..		..	..	97,000
Bankstown	..		..	..	306,000
..	Wattle St, Northside, between Waterloo Rd and Koala St, Mt Lewis		Road shoulders	..	5,000*
..	Edgar St between Milperra Bd and Eldridge Rd, Condell Park		..	..	5,000
Baulkham Hills	Urban local roads		Annual grant 1977/78	..	224,250
..	Aianas Ave, Dundas		Reconstruction and bituminous surfacing	..	9,500*
..	Charles St, Dundas		..	..	4,000
..	Cook St between Windsor Rd and Reppon Ave, Baulkham Hills		Reconstruction	..	23*
..	Oatlands Crescent and The Circle, Dundas		Reconstruction and bituminous surfacing	..	5,500
..	Roxborough Park Rd between Windsor Rd and Cameron Rd, Baulkham Hills		Reconstruction	..	23
Blacktown	Urban local roads		Annual grant 1977/78	..	329,000
Blue Mountains	..		..	..	43,500
Botany	..		..	..	87,000
Burwood	..		..	..	52,000
Campbelltown	Urban local roads		..	..	145,000
..	Bounded by Chester Rd, Brenda St, Sackville St and Ingleburn Rd		Road closure for pedestrian use	..	17,000*
..	Minto Rd between Redfern Rd and Stafford St, Minto		Kerb and guttering and landscaping	..	16,260*
..	Parliament Rd between Atchison Rd and Harold St, Macquarie Fields		Reconstruction and construction	..	33,260
Canterbury	Urban local roads		Annual grant 1977/78	..	205,000
Concord	..		..	..	46,000
Drummoyne	Urban local roads		..	..	57,000
Fairfield	..		..	..	221,000
Holroyd	..		..	..	154,000
Hornsby	Urban local roads		..	..	44,500
Hornsby	Singleton Rd		Reinforced concrete pipe culvert	..	68,000*
..	Saltpan — Brooklyn Rd, Brooklyn		Reinforced concrete box culvert	..	53,000*
..	Singleton Rd		Replace timber bridge at Layburys Creek	..	122,000
Hunters Hill	Urban local roads		Annual grant 1977/78	..	29,000
Hurstville	..		..	..	115,000
Kogarah	..		..	..	84,000
Ku-ring-gai	..		..	..	250,000
Lane Cove	..		..	..	52,000

\*Credit



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No. Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(F) SCHEDULE 10 — CONSTRUCTION OF URBAN LOCAL ROADS — continued</b>				
<b>(i) COUNTY OF CUMBERLAND AREA — continued</b>				
<b>(a) ROADS OTHER THAN MAIN ROADS — continued</b>				
Leichhardt	Urban local roads	Annual grant 1977/78	Council	110,000
Liverpool	"	"	"	161,000
Maitland	"	"	"	152,000
Manly	"	"	"	65,512
"	"	Annual grant 1976/77	"	512*
Marrickville	"	Annual grant 1977/78	"	142,000
Mosman	"	"	"	54,000
North Sydney	"	"	Council	78,000
Parramatta	"	"	"	235,000
Penrith	"	"	"	157,000
Randwick	"	"	"	178,000
Rockdale	"	"	"	139,000
Ryde	"	"	"	158,000
"	Marlow Ave railway overbridge on great northern railway line, Denistone	Reconstruction	"	39,460*
"	Westminster Rd, Gladesville	"	"	39,460
South Sydney	Urban local roads	Annual grant 1977/78	"	61,000
Strathfield	"	"	"	36,750
Sutherland	"	"	"	403,000
Sydney	"	"	"	90,000
Warringah	"	"	"	412,000
Waverley	"	"	"	81,000
Willoughby	"	"	"	87,000
Windsor	"	"	"	84,000
Woollahra	"	"	"	93,000
"	Harris St, Paddington	Reconstruction and bituminous surfacing inc. retaining walls and landscaping	"	48,500
"	Adelaide St, Oxford St to Grafton St, Bondi Junction	Widening	"	48,500*
<b>Total Roads other than Main Roads</b>				<b>5,582,000</b>
<b>(ii) COUNTRY URBAN AREA</b>				
<b>(a) ROADS OTHER THAN MAIN ROADS</b>				
Bombala	Urban local roads	Annual grant 1977/78	Council	94,000
Camden	"	"	"	38,000
Greater Cessnock	Maitland St from MR223 to Anvil St, Kurri Kurri	Reconstruction and bituminous surfacing	"	50
"	Barton St between Victoria St and Hampden St, Kurri Kurri	"	"	50*
"	Urban local roads	Annual grant 1977/78	"	164,000
"	Alexander St, Cessnock	Reconstruction and bituminous surfacing, improvement of drainage	"	784*
"	Boundary St, Kurri Kurri between MR218 and Lang St	"	"	784
Kiama	Urban local roads	Annual grant 1977/78	"	50,000
Lake Macquarie	Oakdale Rd, Bulls Garden to railway	Reconstruction and bituminous surfacing	"	13,484*
"	Gradwells Rd, Dora Creek	Reconstruction and bituminous surfacing of first section	"	1,341
"	Wyee Point access road from Ruttleys Rd to Wyee Point Estate	Reconstruction and bituminous surfacing	"	2,816
"	Lewers St, Belmont Colliery entrance at MR527	Strengthening and resurfacing	"	11,576
"	Urban local roads	Annual grant 1977/78	"	403,000
"	Flowers Drive, Catherine Hill Bay	Reconstruction and bituminous surfacing	"	2,249*
Newcastle	Urban local roads	Annual grant 1977/78	"	287,000
Port Stephens	Kerrigan St, Nelson Bay	Reconstruction and bituminous surfacing with drainage	"	29
"	Miller Rd, Salamander Bay	Provision of drainage	"	29*
"	Urban local roads	Annual grant 1977/78	"	148,000
Shellharbour	Link Rd, Oak Flats	Drainage and bituminous surfacing	"	9,800*
"	Purpur Ave, Mount Warrigal	Bituminous surfacing and shoulders	"	9,800

\*Credit

**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(F) SCHEDULE 10 — CONSTRUCTION OF URBAN LOCAL ROADS — continued</b>					
<b>(II) COUNTRY URBAN AREA — continued</b>					
<b>(a) ROADS OTHER THAN MAIN ROADS — continued</b>					
Wollongong		Colliery Rd, Russell Vale, between Princes Highway and Williams Crescent	Reconstruction	Council	16,500*
"		Urban local roads	Annual grant 1977/78	"	309,000
"		Spinks Rd between Murray Rd and Lake Parade, Corimal	Reconstruction and bituminous surfacing of shoulders, and drainage	"	28,000*
"		Olga Lane to east end of Olga St via Rajani Rd, Helensburgh	Reconstruction and bituminous surfacing	"	18,600*
"		Attunga St, Keiraville, between Bulwarra St and Banool St	Reconstruction and bituminous surfacing of shoulders	"	7,000*
"		Bonool St, Keiraville, between Robsons Rd and Bulwarra St	"	"	9,000*
"		Pindari St, Keiraville, between Gipps Rd and Bulwarra St	"	"	11,500*
"		Baan Baan St, Dapto, Bombarra St to Mulda St	Reconstruction	"	14,400*
"		Cochrane St, West Wollongong, between Robsons Rd and Armstrong St	Reconstruction and bituminous surfacing of shoulders	"	21,000*
"		Auburn Parade, Cringila	Construction of carriageway, footways and centre pavement	"	60,000*
"		Smith St, Wollongong; Keira St to Church St and Kembra St to Corimal St	Reconstruction and bituminous sealing	"	90,000
"		George St, Thirroul, from Phillip St to Robinsville Crescent	"	"	96,000
<b>Total Roads other than Main Roads</b>					<b><u>1,493,000</u></b>

Total  
\$

**SUMMARY**

County of Cumberland .....	5,582,000
Country .....	1,493,000
Engineering administration.....	25,100
General administration .....	<u>122,900</u>
Total as shown in receipts and payments statement — Appendix No. 1 (A)	
Work by councils .....	7,100,100
General Administration .....	<u>122,900</u>
	<b><u>7,223,000</u></b>

\*Credit



**APPENDIX No. 5 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Reconstruction Works

**(F) SCHEDULE 10 — CONSTRUCTION OF URBAN LOCAL ROADS — continued**  
**(II) COUNTRY URBAN AREA — continued**  
**(a) ROADS OTHER THAN MAIN ROADS — continued**

	Works Expenditure \$	Property Acquisitions \$	Total \$
<b>SUMMARY</b>			
Construction and reconstruction			
Freeways .....	32,495,073	6,410,745	38,905,818
State Highways .....	40,486,222	721,974	41,208,196
Trunk and Ordinary Main Roads .....	21,880,795	2,687,670	24,568,465
Secondary Roads .....	1,063,807	318,315	1,382,122
Developmental Roads .....	—	—	—
Roads other than Main Roads .....	773,974	887,272	1,661,246
Miscellaneous acquisitions .....	—	928,818	928,818
Adjustments to properties .....	—	2,760	2,760
Construction, reconstruction and maintenance of			
Rural Local Roads .....	24,356,582	—	24,356,582
Construction and reconstruction of			
Urban Local Roads .....	7,223,000	—	7,223,000
Purchase of land and buildings for works operations .....	526*	—	526*
Design and survey by consultants .....	206,394	—	206,394
Investigation and preliminary engineering .....	232,255	—	232,255
<b>Total .....</b>	<b>128,717,576</b>	<b>11,957,554</b>	<b>140,675,130</b>

Reconciliation of Summary with amounts shown in Appendix No. 1 (A)

Construction and reconstruction of roads and bridges	
National roads — Work by councils .....	272,724
— Work by department .....	52,209,416
National commerce roads — Work by department .....	6,045,979
Rural arterial roads — Work by councils .....	8,588,753
— Work by department .....	8,718,939
Urban arterial roads — Work by councils .....	1,516,737
— Work by department .....	16,052,530
Urban local roads — Work by councils .....	7,100,100
Construction and maintenance of roads and bridges	
Rural local roads — Work by councils .....	22,975,595
— Work by department .....	1,156,487
Purchase of land and buildings for works operations .....	507*
Property acquisitions .....	11,494,995
Administrative expenses (other than	
National Roads Maintenance) .....	4,543,382
<b>Total .....</b>	<b>140,675,130</b>

\* Credit

**APPENDIX No. 5A  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the Roads Grants Act for Construction and Reconstruction Works

Council	General Grants for		Restoration of	Western Division	Total
	Construction and Maintenance Item 3	Item 5	Flood Damage Item 9	Shires Item 16	
<b>(D) SCHEDULE 3 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS</b>					
<b>(a) items 3, 5, and 16 — General Grants and Item 9 — Restoration of Flood Damage</b>					
	\$	\$	\$	\$	\$
Abercrombie .....	33,700	—	—	—	33,700
Albury .....	—	6,055	—	—	6,055
Armidale City .....	—	800	—	—	800
Ashford .....	4,100	—	—	—	4,100
Ballina .....	—	700	—	—	700
Bairnald .....	4,600	—	—	—	4,600
Barraba .....	4,200	—	—	—	4,200
Bathurst City .....	—	800	—	—	800
Bega .....	—	1,000	—	—	1,000
Bellingen .....	6,700	—	—	—	6,700
Berrigan .....	4,600	—	—	—	4,600
Bibbenluke .....	88,000*	—	—	—	88,000*
Bingara .....	4,400	—	—	—	4,400
Bland .....	6,400	—	—	—	6,400
Blaxland .....	73,500	—	—	—	73,500
Blue Mountains .....	42,800	—	—	—	42,800
Bogan .....	4,100	—	—	—	4,100
Bombala .....	122,400	9,800	—	—	132,200
Booolooroo .....	4,900	—	—	—	4,900
Boomi .....	34,944	—	—	—	34,944
Boorowa .....	5,100	—	—	—	5,100
Boree .....	5,100	—	—	—	5,100
Bourke .....	6,100	—	—	—	6,100
Bowral .....	—	1,100	—	—	1,100
Brewarrina .....	4,400	—	—	—	4,400
Broken Hill .....	—	700	—	—	700
Burrangong .....	4,300	—	—	—	4,300
Byron .....	4,800	—	—	—	4,800
Canobolas .....	5,400	—	—	—	5,400
Carrathool .....	4,700	—	—	—	4,700
Casino .....	—	1,600	—	—	1,600
Central Darling .....	6,400	—	—	—	6,400
Cobar .....	6,500	—	—	—	6,500
Coffs Harbour .....	7,600	—	—	—	7,600
Colo .....	6,100	—	—	—	6,100
Conargo .....	4,100	—	—	—	4,100
Condobolin .....	—	1,000	—	—	1,000
Coolah .....	33,950	—	—	—	33,950
Coolamon .....	3,900	—	3,092*	—	808
Cooma .....	—	12,900	—	—	12,900
Coonabarabran .....	6,600	—	—	—	6,600
Coonamble .....	5,700	—	—	—	5,700
Cootamundra .....	31,064	—	—	—	31,064
Copmanhurst .....	5,200	—	—	—	5,200
Corowa .....	4,500	—	—	—	4,500
Cowra .....	—	700	—	—	700
Crookwell .....	5,100	—	—	—	5,100
Culcairn .....	4,500	—	—	—	4,500
Deniliquin .....	—	1,100	—	—	1,100
Denman .....	4,700	—	—	—	4,700
Dubbo .....	—	700	—	—	700
Dumaresq .....	5,700	—	—	—	5,700
Dungog .....	6,700	—	—	—	6,700
Eurobodalla .....	78,900	—	5,697*	—	73,203
Forbes .....	—	1,000	—	—	1,000
Gilgandra .....	4,600	—	—	—	4,600
Glen Innes .....	—	1,200	—	—	1,200
Gloucester .....	68,000	—	—	—	68,000
Goobang .....	5,200	—	—	—	5,200
Goodradigbee .....	4,100	—	—	—	4,100
Gosford .....	6,000	—	—	—	6,000
Goulburn City .....	—	800	—	—	800

\* Credit

**APPENDIX No. 5A — continued  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the Roads Grants Act for Construction and Reconstruction Works

Council	General Grants for		Restoration of	Western Division	Total
	Construction and Maintenance		Flood Damage	Shires	
	Item 3	Item 5	Item 9	Item 16	
(D) SCHEDULE 3 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued					
(a) Items 3, 5 and 16 — General Grants and Item 9 — Restoration of Flood Damage — continued					
	\$	\$	\$	\$	\$
Grafton City .....	—	1,700	—	—	1,700
Great Lakes .....	35,500	—	—	—	35,500
Greater Cessnock .....	4,000	—	—	—	4,000
Gundagai .....	22,964*	—	—	—	22,964
Gunnedah .....	—	800	—	—	800
Gunning .....	30,671	—	—	—	30,671
Guyra .....	41,380	—	—	—	41,380
Harden .....	4,300	—	—	—	4,300
Hastings .....	118,639	—	—	—	118,639
Hay .....	4,501	—	—	—	4,501
Holbrook .....	29,354	—	—	—	29,354
Hume .....	40,578	—	—	—	40,578
Illabo .....	4,100	—	—	—	4,100
Imlay .....	109,000	—	—	—	109,000
Inverell .....	—	1,200	—	—	1,200
Jemalong .....	5,500	—	—	—	5,500
Jenilderie .....	3,800	—	—	—	3,800
Junes .....	—	700	—	—	700
Kempsey .....	55,100	—	—	—	55,100
Kyeamba .....	54,700	—	—	—	54,700
Kyogle .....	7,700	—	—	—	7,700
Lachlan .....	7,700	—	—	—	7,700
Leeton .....	4,200	—	—	—	4,200
Lismore .....	—	15,400	5,000*	—	10,400
Lithgow .....	—	700	—	—	700
Liverpool Plains .....	5,400	—	—	—	5,400
Lockhart .....	23,900	—	—	—	23,900
Lord Howe Island .....	—	31,000	—	—	31,000
Lyndhurst .....	4,300	—	—	—	4,300
Macintyre .....	5,700	—	—	—	5,700
Macleay .....	5,400	—	—	—	5,400
Manilla .....	4,300	—	—	—	4,300
Manning .....	7,700	—	—	—	7,700
Merriwa .....	4,500	—	—	—	4,500
Mitchell .....	30,374	—	—	—	30,374
Mittagong .....	48,600	—	—	—	48,600
Molong .....	4,700	—	—	—	4,700
Monaro .....	39,278	—	—	—	39,278
Moree .....	—	700	—	—	700
Mudgee .....	104,900	—	—	—	104,900
Mullumbimby .....	—	8,378	—	—	8,738
Mulwaree .....	7,600	—	—	—	7,600
Mumbulla .....	118,554	—	—	—	118,554
Murray .....	4,500	—	—	—	4,500
Murrumbidgee .....	3,773	—	—	—	3,773
Murrurundi .....	32,946	—	875	—	33,821
Muswellbrook Munic. ....	—	12,286	—	—	12,286
Nambucca .....	77,000	—	—	—	77,000
Namoi .....	7,400	—	—	—	7,400
Narrabri .....	—	800	—	—	800
Narraburra .....	4,600	—	—	—	4,600
Narrandera .....	55,500	—	—	—	55,500
Narromine .....	—	600	—	—	600
Nundle .....	4,100	—	—	—	4,100
Nymboida .....	6,200	—	—	—	6,200
Oberon .....	34,675	—	—	—	34,675
Orange .....	—	600	—	—	600
Parkes .....	—	700	—	—	700
Parry .....	11,800	—	—	—	11,800
Port Macquarie .....	—	1,200	—	—	1,200
Queanbeyan .....	—	700	—	—	700
Quirindi .....	—	700	—	—	700

\* Credit



**APPENDIX No. 5A — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the Roads Grants Act for Construction and Reconstruction Works

Council	General Grants for		Restoration of	Western Division	Total
	Construction and Maintenance Item 3	Item 5	Flood Damage Item 9	Shires Item 16	
(D) SCHEDULE 3 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued					
(a) Items 3, 5, and 16 — General Grants and Item 9 — Restoration of Flood Damage — continued					
	\$	\$	\$	\$	\$
Richmond River .....	12,400	—	—	—	12,400
Rylstone .....	37,100	—	—	—	37,100
Scone .....	5,900	—	—	—	5,900
Severn .....	6,500	—	—	—	6,500
Shoalhaven .....	7,700	—	1,890	—	9,590
Singleton .....	6,400	—	—	—	6,400
Snowy River .....	62,330	—	—	—	62,330
Talbragar .....	4,400	—	—	—	4,400
Tallaganda .....	4,900	—	—	—	4,900
Tamarang .....	4,700	—	3,325	—	8,025
Tarnworth .....	—	900	—	—	900
Taree .....	—	1,000	—	—	1,000
Temora .....	—	900	—	—	900
Tenterfield Shire .....	8,160	—	—	—	8,160
Timbregongie .....	4,600	—	—	—	4,600
Tintenbar .....	6,400	—	—	—	6,400
Tumbarumba .....	30,169	—	598*	—	29,571
Tumut .....	36,632	—	—	—	36,632
Turon .....	32,200	—	—	—	32,200
Tweed .....	7,700	—	—	—	7,700
Ulmarra .....	6,200	—	—	—	6,200
Uralla .....	5,500	—	—	—	5,500
Urana .....	4,400	—	—	—	4,400
Wade .....	4,900	—	—	—	4,900
Wagga Wagga .....	—	800	—	—	800
Wakool .....	5,500	—	—	—	5,500
Walcha .....	5,900	—	—	—	5,900
Walgett .....	7,500	—	—	—	7,500
Warren .....	4,800	—	—	—	4,800
Waugoola .....	4,900	—	—	—	4,900
Weddin .....	5,100	—	—	—	5,100
Wellington .....	5,300	—	—	—	5,300
Wentworth .....	5,600	—	—	—	5,600
Windouran .....	4,000	—	—	—	4,000
Wingham .....	—	800	—	—	800
Wingecarribee .....	5,000	—	9,047	—	14,047
Wollondilly .....	6,200	—	—	—	6,200
Wyong .....	5,300	—	42,496*	—	37,196*
Yallaroi .....	5,500	—	—	—	5,500
Yarrowlumla .....	4,500	—	—	—	4,500
Yass .....	—	700	—	—	700
Young .....	—	800	—	—	800
Total .....	2,188,108	126,379	41,746*	Nil	2,272,741

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
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**(D) SCHEDULE 3 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued**

**(b) Item 8 — Bridges to Replace Ferries**

Maclean	Warregah Island, north arm, Clarence River	Prestressed and reinforced concrete bridge	Council	1,976*
			<b>Total</b>	<b>1,976*</b>

**(c) Item 11 — Railway Level Crossings**

Blaxland	Level crossing at Rydal Village	Installation of "F" Type flashing lights, bells and gates	Council	43,000
Harden	Level crossing at Nubba, near Cunningar	"	"	12,433
Mudgee	Horatio St. Mudgee	Railway level crossing	"	12,192
			<b>Total</b>	<b>67,625</b>

\* Credit

**APPENDIX No 5A — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the Roads Grants Act for Construction and Reconstruction Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(D) SCHEDULE 3 — CONSTRUCTION AND MAINTENANCE OF RURAL LOCAL ROADS — continued</b>				<b>\$</b>
<b>(d) Item 14 — Bridge Subsidy Scheme</b>				
Barraba	Crow Mountain Creek	Reinforced concrete bridge	Council	2,495
Bland	Wyalong-Quandialla Rd, Bland Creek	"	"	15,202
Blaxland	Browns Gap Rd, Blackmans Creek	"	"	9,500
Gloucester	Bowman River Rd, 2nd, 3rd, 6th, 7th and 8th crossings of river	Low level bridges	"	48,000
Goobang	Kittos Bridge over Bogan River, 8.0 km from Peak Hill	Reinforced concrete bridge	"	54,584
Great Lakes	Bunyah Rd, Horse Creek 12.5 km from Coolongolook	"	"	1
Molong	Goodgodery Rd, Ironbark Creek	Reinforced concrete box culvert	"	12,933
"	Jennings Lane, Bobs Creek	"	"	12,809
Mumbulla	Desert Creek Rd, Numbugga Creek	Prestressed concrete bridge	"	20,150
Narranderra	Little Sandy Creek, Kywong Bridge	Reinforced concrete bridge	"	2,797
Parry	Lower Somerton Rd, Yellow Gully, 7 km west of Attunga	"	"	34,945
Snowy River	Adaminaby to Yaouk Rd, Little River, 1.6 km north of SH4	Steel and concrete bridge	"	8,267
Walcha	McLeods Creek	Reinforced and prestressed concrete bridge	"	2,267
"	Ingleba Creek, 31.4 km south of Walcha (Gloucester-Walcha Rd)	Prestressed concrete bridge	"	30,911*
"	Ingleba Creek, 31.4 km south of Walcha (Gloucester-Walcha Rd)	"	"	61,911
Wyong	Dooralong Rd, Jiliby Jiliby Creek (Birks Bridge)	Reinforced concrete bridge	"	29,250
<b>Total</b>				<b>284,200</b>
<b>(e) Item 23 — Country Rural Area Developmental Roads</b>				
Snowy River	1297 Pinch River, 10.14 km south of Jacobs River	New structure	Council	182,702
Walcha	1317 Ingleba Creek, 31.4 km south of Walcha	Reinforced concrete bridge	"	24,428
<b>Total Developmental Roads</b>				<b>207,130</b>
<b>(f) Item 26 — Contingencies</b>				
Kempsey	Shire of Kempsey		Council	3,722
Severn	Shire of Severn		"	10*
<b>Total</b>				<b>3,712</b>
<b>(g) SUMMARY</b>				<b>Total</b>
Item				<b>\$</b>
3	Shires.....			2,188,108
5	Municipalities .....			126,379
8	Bridges to replace ferries.....			1,976*
9	Restoration of flood damage .....			41,746*
11	Railway level crossings .....			67,625
14	Bridge subsidy scheme .....			284,200
23	Developmental roads .....			207,130
26	Contingencies .....			3,712
	Engineering administration.....			1
Total as shown in receipts and payments statement — Appendix No. 1 (A):				
	Work by councils .....		2,835,409	
	Work by Department.....		1,976*	
				<b>2,833,433</b>

\* Credit

\* Credit

# APPENDIX No. 6 COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) FREEWAYS</b>					<b>\$</b>
<b>Sydney-Newcastle Freeway</b>					
Hunters Hill	F3	Lane Cove River, Figtree Bridge	Abutment-sea wall	Department	34,160
Sydney	F3	Northwestern Freeway — Pyrmont St Area (P)	Foundations, substructures, viaducts and associated works	"	1,871,148
"	F3	Darling Harbour Goods Yard	Construction of Deck ENW7	"	602,181
"	F3	Northwestern Freeway — Bathurst St Area (B)	Foundations, substructures, viaducts and associated works	"	810,559
"	F3	Northwestern Freeway — King St Area (K)	"	"	1,313,587
"	F3	Darling Harbour Goods Yard	Supply of fabrication and delivery of steelwork for decks	"	315,759
					<u>4,947,394</u>
<b>Western Freeway</b>					
Blacktown	F4	Prospect to Wallgrove Rd, Eastern Creek	Public utility adjustment	Council	2,781
Penrith	F4	Prospect to Regentville	Erection of manproof fencing on freeway boundary	Department	2,829
					<u>5,610</u>
<b>South Western Freeway</b>					
Campbelltown	F5	Raby Rd, Minto	Overpass	Department	155
					<u>155</u>
<b>Southern Freeway</b>					
Wollongong	F6	63.68 km south of Sydney	Overpass	Department	100,733
					<u>100,733</u>
<b>Total Freeways</b>					<u>5,053,892</u>
<b>(II) STATE HIGHWAYS</b>					
<b>Princes Highway</b>					
Sutherland	1	President Ave to SH1 at Loftus	Construction of dual carriageway	Department	72,588
Wollongong	1	Bulli Pass	Geological investigation of land slips	"	29
"	1	69.1 km south of Sydney	Relocation of short section of pavement in unstable area	"	223,807*
"	1	67.2 km to 69.6 km south of Sydney	Improvement of drainage	"	127,326
					<u>23,864</u>
<b>Hume Highway</b>					
Bankstown	2	Intersections with Hector St, Johnson St and Carysfield Rd, Bass Hill	Improvements	Department	26,209
"	2	Avoca St to Cooper Rd, Yagoona	Improvement of drainage	"	86,582
"	2	Wycombe St to Rookwood Rd, Yagoona	Replacement of damaged concrete slabs	"	552*
Camden	2	Bridge over South Creek, 7.35 km north of Camden	Approaches	"	34,648
"	2	Between Cowper Dr and MR259, Camden	Kerb and guttering	Council	5,731
Fairfield	2	Intersection with Lansdowne Rd, Lansvale	Adjustment to medians	Department	2,646
Liverpool	2	Lachlan St to Campbell St, Liverpool	Kerbside lane	"	404
"	2	Lot 2 DP516649, south of Grahame Ave, Casula	Piping of easement	"	2,558*
"	2	Intersection with Bringelly Rd, Leppington	Reconstruction	"	43,648
"	2	Prospect Creek, Lansvale to Hinkler Ave, Liverpool	Reconstruction of damaged pavement	"	12,166*
					<u>184,592</u>
<b>Great Western Highway</b>					
Auburn	5	St Hilliers Rd and Silverwater Rd, Auburn	Improvement of junction	Department	37,084
"	5	Rawson Rd to Bombay St, Auburn	Replacement of concrete slabs	"	298*
Auburn	5	Marlborough Rd, Flemington to Berry St, Granville	"	"	58,481
Auburn	5	Wentworth Rd to Woodville Rd (SH13), Parramatta	Replacement of concrete pavement at selected locations	"	17,335
Burwood	5	Blacktown Rd, Prospect to Rooty Hill Rd, Eastern Creek	Restoration of damaged pavement	"	7,174
Parramatta	5	Selected sections	Reshaping and strengthening with asphaltic concrete	"	605,011
Blue Mountains	5	57.6 km to 59.37 km west of Parramatta at Woodford	Reconstruction of slow vehicle lane	"	1,679
"	5	37.9 km to 39.2 km west of Parramatta	Slow vehicle lane	"	16,314

\* Credit



**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Great Western Highway — continued</b>					
Blue Mountains	5	5.16 km to 66.63 km west of Parramatta	Heavy patching	Department	58,642
"	5	18.0 km to 19 km west of Penrith at Valley Heights	Slow vehicle lane Improvement	"	55*
"	5	Intersection with Kidman Ave, Blaxland		"	82,244
"	5	44.9 km to 45.6 km west of Penrith at Wentworth Falls	Slow vehicle lane	"	691,619
"	5	35.22 km to 96.69 km west of Parramatta	Heavy patching	"	1,046,760
Holroyd	5	Greystanes Rd to Ettalong Rd, Girraween	Reconstruction of asphaltic concrete surface	"	20,267
Penrith	5	SH5 at Emu Plains	Public utility adjustment	Council	206
"	5	Charles Hackett Dr to Neale St, St Marys	Northern side strip	Department	12,481
"	5	York St to Old Bathurst Rd, Emu Plains	Side strips	"	29,774
					<u>2,684,718</u>
<b>Pacific Highway</b>					
Hornsby	10	Mt Ku-ring-gai to Berowra	Reconstruction and widening	Department	160
"	10	Yirra Rd, Mt Colah	Provision of right turning bay	"	1,759*
"	10	Intersection with College Cres, Waitara	Improvement	"	700*
"	10	College Cres to Cam St, Waitara	Reconstruction of damaged pavement	"	209,931
Ku-ring-gai	10	Ryde Rd to Bridge St, Gordon	Additional lane to provide right turn lanes	"	225,359
Lane Cove	10	Railway overpass at St Leonards	Widening	"	90,346
Willoughby	10	Christie St to Berry St, North Sydney	Public utility adjustment	Council	1,062
North Sydney	10	Intersection of SH10 and Mowbray Rd, Artarmon	Provision of right turn lane	Department	41,536
Willoughby	10				<u>565,935</u>
<b>State Highway No. 13</b>					
Bankstown	13	Villawood Rd opposite Llewellyn Ave, Villawood	Relocation of junction	Department	53,036
"	13	Villawood	Railway overbridge	"	93,360*
Hornsby	13	Pearces Corner to Normanhurst Rd, Normanhurst	Reconstruction of side strips	"	12,949
					<u>27,375*</u>
<b>Total State Highways</b>					<u><u>3,384,006</u></u>
<b>(III) ORDINARY MAIN ROADS</b>					
Auburn	190	Amy St to Leila St, Berala	Public utility adjustment	Council	4,979
"	190	Joseph St, from The Boulevarde to Lewis St, Berala	Six lane carriageway	"	10,435
Bankstown	167	Fairford Rd and Short St, Padstow	Channelisation of intersection	Department	94
"	167	Milperra Rd and Edgar St, Condell Park	Improvement of intersections	"	1,709
"	167	River Rd to Henry Lawson Dr, Revesby	Resheeting with asphaltic concrete surface	"	1,213*
"	167	Access to Hawker De Havilland	Provision of right turn bay	"	65,108
"	190	Boardman St to Auburn Municipal boundary, Bankstown	Dual carriageway	"	19,447
"	190	Brunker Rd to Amy St, Regents Park	Public utility adjustment	Council	1,668
Baulkham Hills	157	Cattai Creek to MR160 (Old Northern Rd), Castle Hill	Asphaltic concrete surfacing	"	6,687
"	160	Castle Hill Rd to Crego Rd, Rogans Hill	"	"	8,388*
"	160	Cecil Ave to Old Castle Hill Rd, Castle Hill	"	"	5,014
"	160	Intersection with Galston Rd, Dural	Reconstruction	"	32,610
"	160	Brisbane Rd to Castle Hill Rd, Rogans Hill	Asphaltic concrete surfacing	"	6,722
"	184	Schofields Rd and Commercial Rd, Rouse Hill and Nelson Rd, Box Hill	Provision of right turn bays	Department	688
"	574	Bridge over Ponds Creek, Kissing Point Rd, Telopea	Widening	"	334
Blacktown	515	Intersection with Wallgrove Rd	Minor improvements	Council	6,140
"	537	SH7 to Davies St, Rooty Hill	Reconstruction and bituminous surfacing	"	583*
"	537	North Pde to Spencer St, Rooty Hill	Construction of side strip (west side)	Department	26,224
"	546	Fermoy Rd to West Pde, Riverstone	Reconstruction and strengthening of pavement	"	70,288

\*Credit

**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Blue Mountains	184	44.17 km to 77.98 km west of Windsor	Heavy patching	Department	131,098
"	184	44.17 km to 77.98 km west of Windsor	Widening of formation and cable fencing	"	115,866
"	570	0.3 km to 1.8 km from Springwood	Widening of formation and pavement	Council	6,238
Botany	183	Maitland Ave to Isaac Smith St, Daceyville	Divided dual carriageway	Department	6,887
"	194	Joyce Dr to Millpond Rd, Mascot	Reconstruction of damaged pavement on southbound carriageway	"	20,191
"	344	Southern Cross Dr, Eastlakes to Bay St, Pagewood	Dual carriageway	"	118
"	616	Beauchamp Rd and Denison St from Botany Rd, Botany	Reconstruction and widening	"	39,240
"	617	Approaches to railway overbridge	Six lane carriageway	"	2,478,506
Camden	154	5.18 km to 12.1 km north west of SH2	Reconstruction of pavement, widening to 7.32 m and resheeting	Council	4,104
"	154	Narellan Creek, 1.6 km north of Narellan	Prestressed concrete plank bridge	"	48,762
"	178	Somerset St to Queen St, Narellan	Kerbside lane including kerb and gutter	"	121,627
Campbelltown	177	F5 to railway overbridge	Deviation	Department	604,797
"	177	Bow Bowing Creek at Campbelltown	Reinforced concrete box culvert	"	204,454
"	177	Bow Bowing Creek at Campbelltown	"	"	21,106
Canterbury	315	King Georges Rd, Wiley Park	Widening of railway overbridge	"	682
"	315	Intersection with Canterbury Rd, (MR167), Wiley Park	Public utility adjustment	Council	18,666
"	315	Railway overpass at Wiley Park	Approaches	Department	89*
Colo	184	26.0 km to 27.4 km west of Windsor	Strengthening of pavement	"	4
Concord	200	Intersection with Cavell Ave, Rhodes	Improvement	Council	18,441
"	200	Intersection with Alfred St, Rhodes	"	"	19,566
"	200	Averill St, Rhodes	Channelisation of intersection	"	550
"	200	Hospital Rd, Concord West to Averill St, Rhodes	Strengthening of pavement	"	2,327
"	589	Cooper St to Parramatta Rd, North Strathfield	Restoration of damaged bituminous pavement	"	11,796
Drummoyne	165	Iron Cove Bridge on Victoria Rd	Restoration and landscaping	Department	574
Fairfield	609	Landon St to Tangerine St, Fairfield	Kerbside lane	Council	1,844
"	609	Fairfield St to Alan St, Fairfield	Improvement of intersection	Department	60,185
"	609 & 2071	Intersection with SR2071	"	Council	152
"	609	From Mitchell St to Sanderson St, Fairfield	Reconstruction	"	714
Hornsby	139	Copeland Rd and Wongala Cres, Beecroft	Channelisation of intersection	"	4,309
"	156	From SH13 to New Line Rd	Construction of kerbside lane and improvement of drainage	"	20,951
"	156	MR160 to Higgs Rd, West Pennant Hills	Reconstruction and widening	"	5,549*
"	156	New Line Rd to Victoria Rd, Pennant Hills	Public utility adjustment	"	5,295
"	156	Rogan's Hill to Glen Rd, Castle Hill	"	"	10,212
"	161	Intersection with Cawthorne St, Hornsby Heights	Improvement of drainage	"	7,383
"	161	Selected lengths through Galston Gorge	Improvement of curves	"	19,566
"	373	Terry's Creek to Crandon Rd, Epping	Dual carriageway	Department	4,025*
Hurstville	168	Collaroy Ave to Mavis Ave, Peakhurst	Dual carriageways	Council	8,538
"	168	Mavis Ave to Collaroy Ave, Peakhurst	Public utility adjustment	"	1,535
"	168	Lime Kiln Rd to Kims Ave, Lugarno	Reconstruction and bituminous surfacing	"	11,147
"	168	Selected lengths of Croydon Rd, Hurstville	Asphaltic concrete sheeting	"	4,495
"	168	Forest Rd from Mavis Ave to Foreshaw Ave, Riverwood	Reconstruction inc. intersection with Stoney Creek Rd	"	4,938*
"	168	Collaroy and Mavis Ave, Peakhurst	Public utility adjustment	"	4,713
"	315	From Frederick Ave to Young St, Beverly Hills	Reconstruction and widening	"	110,873
"	315	Stoney Creek Rd, Hurstville	Public utility adjustment	"	96,569
"	508	Henry Lawson Dr from MR168 to Hymen St, Peakhurst	Reconstruction and asphaltic concrete surfacing	"	26*
Ku-ring-gai	162	Killeaton St to Richmond Ave, St Ives	Dual carriageways	Department	956,580
"	162	Cultowa Rd to Ridge St, Pymble	Dual carriageway	"	31,120
"	162	Highlands Ave to North Shore rail, Gordon	Provision of connection from divided carriageway to rail	"	10,741
"	366	Kathy Cl to Berrilee Rd, Turramurra	Reconstruction to four lanes	Council	1,957

\*Credit

**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Ku-ring-gai	366	Berrilee Rd and Warrangi St, Ku-ring-gai	Public utility adjustment	Council	7,194
"	366	Bobbin Head Rd between Berrilee Rd and Warrangi St, Turramurra	"	"	10,826
"	162	Mona Vale Rd between Cowan Rd and Highlands Ave, St Ives	"	"	40,744
Lane Cove	166	Burns Bay Rd and Penrose St	Provision of right turn bay at intersection	Department	87,784
Leichhardt	523	From Booth St to Parramatta Rd, Camperdown	Reconstruction and bituminous surfacing	Council	7,848*
Liverpool	154	Thompsons Creek near Badgerys Creek Rd, Bringelly	Prestressed concrete bridge	"	221
"	512	West of Muwarra Rd to east of Walder Rd, Liverpool	Stormwater drainage construction	"	20,668
"	515	Between Flowerdale Rd and Cabramatta Creek	Drainage	"	376
"	515	Cabramatta Creek at Liverpool	Prestressed concrete girder bridge	Department	485,346
Manly	164	Condamine St between Kenneth Rd and Campbell Pde, Manly Vale	Public utility adjustment	Council	121,042
Marrickville	167	Livingstone Rd to Marrickville Rd, Lewisham	Reconstruction and bituminous surfacing	"	25,719
North Sydney	164	Wycombe Rd to Cabramatta Rd, Cremorne Junction	Reconstruction and widening	Department	6,622
Parramatta	158	Stewart St to Morris St, Eastwood	Dual carriageway	"	38,700
"	165	Silverwater Rd and Spurway St, Ermington	Improvement of intersections	"	23,592
"	165	Pemberton St to Macarthur St, Parramatta	Three lane carriageway	"	40,588
"	165	Elizabeth St to Church St, Parramatta	Divided carriageway	"	1,502
"	165	Spurway St to Gammell St, Ermington, inc. intersection with Silverwater Rd	Improvement of intersections	"	3,472
"	184	By St to Briens Rd, Northmead	Dual carriageway	"	5,076*
"	309	Eleanor St to Hassall St, Rosehill	Widening to six lanes	"	211,914
"	574	Marsden Rd to Kissing Point Rd, Dundas	Reconstruction and widening	"	19,187*
Penrith	154	F4 at Orchard Hills to Kings Hill Rd, Mulgoa	Stage 2 of asphaltic concrete surfacing	"	67,431
"	154	Intersection with Glebe Place and Coxs Ave	Restoration of kerb and guttering	Council	206*
"	154	Maxwell St to F4, Orchard Hills	Reconstruction of failed pavement	Department	25,050
"	155	Mulgoa Rd and Jamison Rd, Jamison Town	Public utility adjustment	Council	3,757
"	155	South of SR2048	Kerb and guttering	"	3,250
"	155	New bridge over Surveyors Creek	Approaches	"	19,566
"	155	Jamison St to Batt St, Penrith	Reconstruction and bituminous surfacing	"	24,653
"	155	Boundary Creek, 1.11 km north of SH5	Reconstruction of culvert	"	22,305
"	536	SH5 to Margaret St, St Marys	Construction of side strips	Department	46,022
"	536	F4 to Luddenham Rd, Erskine Park	Reconstruction and bituminous surfacing	"	8,941
"	536	Mitchell St to 183 m south of Lansdale St	Kerb and guttering and drainage	Council	3,980
Randwick	171	Flint St to Beauchamp Rd Matraville	Divided six lane carriageway	Department	455,982
Rockdale	168	Intersection with Glenfarenne St, Bexley	Public utility adjustment	Council	26,235
"	194	Cooks River to Bestic St, Kyeemagh	Kerb and gutter and sealing of kerbside lanes	"	1,862*
Ryde	139 & 2081	Rydale Rd and Rowe St, Eastwood	Channelisation of intersection	"	853
"	158	Morris St, Eastwood, to SH13, Carlingford	Dual carriageway	Department	8,412
"	162	Epping Rd to Fontenoy Rd, North Ryde	"	"	39,475
"	162	Goulding Rd to Epping Rd, Ryde	"	"	11,613
"	162	Waterloo Rd, North Ryde	Improvement of intersection	"	92,478
"	165	Bellevue Rd to Glenayr Ave, West Ryde	Asphaltic concrete surfacing	"	303*
"	191	Lane Cove River to Crematorium, Fullers Bridge	Third lane	Council	3,160
"	200	Devlin St to Church St, Ryde	Reconstruction of damaged concrete pavement	Department	5,062*
"	200	Church St to Riverside Ave, Ryde	"	"	11,324
"	373 & 162	Lane Cove Rd and Epping Rd, North Ryde	Interchange	"	2,924,287
"	373 & 162	Over MR162 (Lane Cove Rd), North Ryde	Prestressed concrete girder bridge	"	776,108
South Sydney	170	Cleveland St to Boundary St, Redfern	Public utility adjustments	Council	2,843
"	170	Beauchamp Rd to Bunnerong Rd (1st stage), Matraville	Dual carriageway	Department	529,671

\* Credit



**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Strathfield	315	Raw Square underpass	Proposal to alleviate flooding	Council	770
"	318	Parramatta Rd to Arthur St, Homebush	Retaining walls at railway overbridge approaches	Department	7,518
"	318	SH5 to railway overbridge	Dual carriageway	Council	8,973
"	318	Railway overbridge, Marlborough Rd, Homebush	Approaches	"	28,633
"	318	SH5 to Arthur St, Homebush	Public utilities adjustment — Postmaster General's Department	"	2,725
"	318	Main suburban railway line at Marlborough Rd, Homebush	Prestressed concrete bridge	Department	114,622
Sutherland	227	From Princes Highway to Kareena Rd	Reconstruction and widening	Council	196,962
"	227	Jacaranda Rd, Caringbah to Croydon St, Cronulla	Dual carriageway	"	6,857
Sydney	165	Intersection with MR595 at Pymont	Improvement of intersection	"	12,992
"	171	South of Lang Rd, Moore Park	Widening of carriageway	"	1,291
"	171 & 327	Anzac Pde, Alison Rd and Dacey Ave, Kensington	Improvement of intersection	"	834
Warringah	164	Mona Vale Rd to Darley St, Mona Vale	Dual carriageway inc. channelisation of intersections	Department	55,468
"	164	Kenneth Rd to Campbell Pde, Manly Vale	Public utility adjustment	Council	39,132
"	174	Bungan St to Mona St, Mona Vale	Reconstruction and bituminous surfacing	"	10,735
"	174	Mona St to Fermay Ave, Bayview	Reconstruction and widening	"	88,698
"	328	Northern approach to Roseville Bridge	Rock-bolting and guniting of batter	Department	158,094
"	328	Daines Pde to Pittwater Rd, Brookvale	Dual carriageway inc. intersection with MR164	"	169,105
"	328	Wakehurst Parkway to Daines Pde, Beacon Hill	Dual carriageway	"	62
"	397	Frenchs Forest Rd and Wakehurst Parkway	Improvement of intersection	"	93,986
Willoughby	191	Fullers Rd and Millwood Ave, Chatswood West	"	Council	8,452
"	191	Intersection with Millwood Ave and Fullers Rd, Chatswood	Public utility adjustment	"	7,516
Windsor	154	Bell St to Brabyn St, Windsor, various locations	Sidestrips	Department	19,640
"	184 & 181	McGraths Hill, Windsor	Improvement of intersection	"	195
"	184	Intersection of Windsor Rd and McGrath Rd, Windsor	Public utility adjustment	Council	1,321
"	184	Bridge over South Creek at Bridge St, Windsor	Widening of approaches	Department	251,936
"	184	Bridge over Rickabys Creek, 0.5 km west MR154 at Windsor to Clarendon	Improvement of approaches	"	87,596*
"	537	Lennox St to March St, Richmond	Sealing of side strip	"	1,544*
Wollondilly	177	22.4 km to 33.8 km north of Wollongong	Heavy patching	Council	84,785
"	177	Intersection with road to Westcliffe Colliery, 6.1 km south of Appin	Reconstruction and additional lanes	"	4,652*
"	610	0 km to 4.8 km west of Appin, towards Picton	Reconstruction and widening	"	65,219
<b>Total Ordinary Main Roads</b>					<b>13,012,706</b>
<b>(iv) SECONDARY ROADS</b>					
Ashfield	2028	Lackey St to Smith St, Summer Hill	Reconstruction and widening to four lanes (Section B)	Council	42,032
"	2028	Lackey St to SH2, Summer Hill	Widening, kerb and gutter	"	1,655*
Auburn	2057	Railway overpass to Municipal Boundary	Asphaltic concrete surfacing	"	693
Bankstown	2068	Tompson Rd to Neptune St, Revesby	Reconstruction and bituminous surfacing	"	794
"	2068	Vicinity of Sandakan Rd, Revesby	Drainage	"	582
"	2068	Neptune St to Sandakan Rd, Revesby	Reconstruction and widening	"	6,502
"	2068	Tower St to Tompson Rd, Revesby	"	"	27*
"	2090 & 315	Roberts Rd to Juno Pde, Greenacre	Public utility adjustment	"	18,376
"	2090	Wentworth St to Roberts Rd, Greenacre	Reconstruction and sealing	"	61
"	2090	Intersection with Waterloo Rd	Reconstruction and widening	"	23,740
"	2094	Rookwood Rd to SH2, Bankstown	Heavy patching	"	363
"	2094	Hume Highway to Rookwood Rd, Greenacre	Heavy patching at selected locations	"	10,435

\* Credit

**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iv) SECONDARY ROADS — continued</b>					<b>\$</b>
Baulkham Hills	2084	From Chapel Lane to Toongabbie Creek, Baulkham Hills	Construction of kerbside lane	Council	11,087
Blacktown	2084	Railway overbridge at Seven Hills	Public utility adjustment	"	219,243
"	2084	Intersection of SR2084 and Abbott Rd, Seven Hills	Reconstruction	"	11,087
"	2085	Noel St to Kent St, Blacktown	Reconstruction and widening	"	2,551
"	2085	SH5 to Church Lane, Prospect	Reconstruction and bituminous surfacing	"	76,308
"	2085	Noel St and Kent St, Blacktown	Public utility adjustment	"	18,766
"	2085	Intersection of SR2085 and Seven Hills Rd, South Blacktown	Temporary improvement	"	1,126
"	2085	SH5 to Leabons Lane, Prospect	Reconstruction and bituminous surfacing	"	846
"	2085	Bridge over Eastern Creek near Symonds Rd, Doonside	Approaches	"	583
"	2085	Eastern Creek, Blacktown	Prestressed concrete bridge — sidetrack construction	"	19,566*
"	2085	Patrick St from Newton St to Alpha St, Blacktown	Kerb, guttering and drainage	"	1,414
Camden		Richardson Rd, 0 km to 3.5 km south of MR178	Reconstruction and asphaltic concrete surfacing	"	4,955*
Canterbury	2014	Northcote St to Canterbury Rd, Campsie	Public utility adjustment	"	528
"	2014	Bexley Rd from Canterbury Rd to Northcote St, Campsie	Reconstruction and bituminous surfacing of sidestrips	"	62,610
Fairfield	2071	Kenyons Bridge over Prospect Creek, Smithfield	Southern approaches	Department	43,775
"	2071	Bridge over Prospect Creek (Kenyons Bridge) at Smithfield	"	Council	10,119*
"	2071	Hamilton Rd and Warrumbungle St, Fairfield	Reconstruction and bituminous surfacing	"	3,813
"	2088	From Gipps St to Bourke St, Smithfield	"	"	730
"	2088	Bourke St to Gipps St, Fairfield	Drainage and pavement	"	18,931
"	2088	Bourke St to Gipps St, Smithfield	Public utility adjustment	"	19,840*
"	2088	From Market St to Nala St, Smithfield	Reconstruction and widening to four lanes	"	43,542
Holroyd	2071	Old Prospect Rd to Bates Ave, South Wentworthville	Reconstruction of eastern shoulder	"	4,050
"	2071	Bridge over Prospect Creek at Smithfield	Northern approach	"	29,088
Holroyd Fairfield	2071	Kenyons Bridge over Prospect Creek, Smithfield	Public utility adjustment	"	35,646
Holroyd	2071	Long St, Smithfield	Deviation	"	38,295
"	2071	(1) Merrylands Rd to Paton St (2) Merrylands Rd to Bruce St	(1) Widening of pavement (2) Installation of drainage	"	1,852
"	2071	Prospect Creek (Kenyons Bridge), Smithfield	Single span steel beam bridge	"	1,817
"	2071	Paton St to Woodpark Rd, West Merrylands	Reconstruction of eastern kerbside lane	"	1,817*
Hornsby	2035 & 160	Intersection SR2035 and MR160, Dural	Public utility adjustment	"	40,802
"	2035 & 160	Intersection with MR160 at Dural	Improvements	"	65,219
"	2043	Between Waitara Ave and Myra St, Hornsby	Reconstruction of sidestrips	"	66,878
Hunters Hill	2052	Harvard St to Cambridge St, Gladesville	Reconstruction of western kerbside lane	"	4,425
"	2052	Princes St to High St, Hunters Hill	Reconstruction of kerbside lanes	"	1,287
Lane Cove	2058	Epping Rd to Coxs Rd, Lane Cove	Public utility adjustment	"	26,575
"	2070	Intersection of Longueville Rd and Kenneth St, Lane Cove	"	"	710
"	2092	Epping Rd to Mowbray Rd, Lane Cove	Reconstruction and widening	"	22,523
Leichhardt	2046	Mary St to Balmain Rd, Leichhardt	Reconstruction and asphaltic concrete surfacing	"	2,520
"	2046 & 2056	James St, Mary St and Perry St, Lilyfield	Channelisation of intersection	"	43,318
"	2046	Intersection with Mary St and Lilyfield Rd	Public utility adjustment	"	135
Liverpool	2071	Brickmakers Creek, Orange Grove Rd, Liverpool	Reinforced concrete bridge	Department	122,039

\* Credit

**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iv) SECONDARY ROADS — continued</b>					\$
North Sydney	2036	Intersection with Waters Rd, Cremorne	Reconstruction	Council	9,131
"	2091	Chandos St and Christie St, North Sydney	Public utility adjustment	"	6,758
Parramatta	2049	Wentworth St to Station St, Parramatta	Reconstruction and bituminous surfacing	"	4,873
"	2066	Campbell St, O'Connell St and Albert St	Reconstruction	"	4,696*
"	2066	Between Macquarie St and the abutment at Rings Bridge	"	"	7,881
"	2066	Barney St to Board St, North Parramatta	Eastern kerbside lane	"	177*
Penrith	2063	Cranebrook Rd, Cranebrook to The Driftway, Agnes Banks	Widening and sealing	"	53,480
Randwick	2074	Storey St to Gale Rd, Maroubra	Widening of southbound carriageway	"	8,720
"	2074	Storey St to Gale Rd, Maroubra	Public utility adjustment	"	730
Rockdale	315	King Georges Rd and Stoney Creek Rd, Beverly Hills	"	"	24,896
Ryde	2024	Blaxland Rd and Ball Ave, Eastwood	Channelisation of intersection	"	2,609
"	2058	Coxs Rd and Twin Rd, Ryde	Public utility adjustment	"	7,704
"	2058	0 km to 1.3 km south of MR373	Reconstruction and widening to four lanes	"	35,971
Strathfield	2087	0.66 km from Hume Highway onwards	Reconstruction and widening	"	72,915
Sutherland	2075	Fenton Ave to Elouera Rd, Caringbah	Reconstruction and asphaltic concrete surfacing	"	82,043
Willoughby	2092	Epping Rd to Mowbray Rd West, Lane Cove	Public utility adjustment	"	26,446
"	2093	Ashley St to Boundary St, Roseville	Reconstruction of kerbside lane	"	52,175
"	2095 & 10	Intersection of Pacific Highway and Mowbray Rd, Willoughby	Public utility adjustment	"	108,921
<b>Total Secondary Roads</b>					<b>1,570,726</b>

**(v) TOURIST ROADS**

Baulkham Hills	4006	From Wisemans Ferry to Lower Portland	Reconstruction and widening	Council	19,566
Blue Mountains	4004	2.31 km to 4.51 km south of SH5	Reconstruction	"	1,637
<b>Total Tourist Roads</b>					<b>21,203</b>

**(vi) ROADS OTHER THAN MAIN ROADS**

Bankstown		Overbridge at Henry Lawson Dr	Approaches	Department	2,088
"		Old Kent Rd to SH2, Bankstown	Reconstruction and bituminous surfacing	"	16,887
Baulkham Hills		Bridge over North Rocks Rd, North Parramatta	Post tensioning of deck	"	57,606
"		Bridge over Darling Mill Creek, Northmead	Prestressed concrete girders	"	20,210
Baulkham Hills		Bridge over CR5037 at Windsor Rd, Northmead	Fabrication and delivery to site of steel girders	"	26,985*
Baulkham Hills		Bridge over Darling Mill Creek, Northmead	Supply and fabrication of prestressed concrete slab deck	"	35,986
"		Old Windsor Rd, 1.56 km to 3.83 km north of Seven Hills Rd	Public utility adjustment	Council	1,100
Fairfield		North Liverpool Rd to Mount St, Bonnyrigg	Reconstruction and bituminous surfacing	"	511
Parramatta		Pennant Hills Rd, near Burnside St to Windsor Rd, Parramatta	Dual carriageway, inc. access to Lake Parramatta Reserve	Department	695,107
"		Kissing Point Rd to Pennant Hills Rd, near Burnside St	Dual carriageway	"	82,112
Penrith		F4 to SH5, Emu Plains — River Rd	Widening	Council	16,305*
Sutherland		Railway overpass, Acacia St, Sutherland	"	Department	1,947
<b>Total Roads other than Main Roads</b>					<b>870,264</b>

\* Credit



**APPENDIX No. 6 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES**  
Summary of Payments from Department's Funds for Construction and Reconstruction Works

SUMMARY	Works Expenditure \$	Property Acquisitions \$	Total \$
Freeways .....	5,053,892	229,177	5,283,069
State Highways .....	3,384,006	182,386	3,566,392
Ordinary Main Roads .....	13,012,706	1,172,864	14,185,570
Secondary Roads .....	1,570,726	139,183	1,709,909
Tourist Roads .....	21,203	—	21,203
Roads other than Main Roads .....	870,264	1,706,541	2,576,805
	<u>23,912,797</u>	<u>3,430,151</u>	<u>27,342,948</u>
Miscellaneous, minor works, etc. ....	143,105	—	143,105
Investigation and preliminary engineering .....	330,958	—	330,958
Purchase of land and buildings for works operations .....	1,752,081	—	1,752,081
Adjustments to resumed properties .....	461,487	—	461,487
<b>Total .....</b>	<u><b>26,600,428</b></u>	<u><b>3,430,151</b></u>	<u><b>30,030,579</b></u>

Reconciliation of Summary with amounts shown in Appendix No. 1 (B)

Construction and reconstruction of roads and bridges	
— work by councils .....	1,931,930
— work by department .....	21,717,270
Property acquisitions .....	3,264,617
Purchase of land and buildings for works operations .....	1,752,081
Administrative expenses (other than maintenance and minor improvement) .....	1,364,681
<b>Total .....</b>	<u><b>30,030,579</b></u>

**APPENDIX No. 6A**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND — SPECIAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) STATE HIGHWAYS</b>					<b>\$</b>
<b>Hume Highway</b>					
Bankstown	2	Hector St, Johnston Rd and Carysfield Rd, Bass Hill	Improvement of intersection	Department	180,000
Liverpool	2	Prospect Creek, Lansvale to Hinkler Ave, Liverpool	Reconstruction of damaged pavement	"	50,000
"	2	Atkinson St, Liverpool to Cross Roads	Kerbside lanes and reconstruction of damaged pavement	"	200,000
					<u>430,000</u>
<b>Great Western Highway</b>					
Blacktown	5	Blacktown Rd, Prospect to Rooty Hill Rd, Eastern Creek	Reconstruction of damaged pavement	Department	50,000
					<u>50,000</u>
<b>Pacific Highway</b>					
Hornsby	10	Cam St to College Crescent, Waitara	Reconstruction of damaged pavement	Department	200,000
					<u>200,000</u>
<b>Total State Highways</b>					<u><u>680,000</u></u>
<b>(II) ORDINARY MAIN ROADS</b>					
Blacktown	537	Power St, Plumpton to Short St, Rooty Hill	Reconstruction of damaged pavement	Department	70,000
Canterbury	315 & 167	King Georges Rd and Canterbury Rd, Wiley Park	Channelisation of intersection	"	154,190
Ku-ring-gai	162	Killeaton St to Richmond Ave, St Ives	Widening of divided carriageways to six lanes	"	350,000
"	366	Kathy Ct to Berrillee Rd, Turramurra	Reconstruction and widening	Council	50,000
Liverpool	515	Copeland St to Maxwells Ave, Liverpool	Widening of carriageway to six lanes	Department	400,000
Marrickville	167	Allan St to Pigott St, Dulwich Hill	Reconstruction and surfacing with asphaltic concrete	Council	59,000
Rockdale	168	Glenfame St, Rockdale	Improvement of curve	"	65,000
Ryde	373 & 162	Lane Cove Rd and Epping Rd, North Ryde	Interchange	Department	130,000
Warringah	164	Old Barrenjoey Rd to Eastbourne Ave, Avalon	Reconstruction and widening	"	200,000
"	164	Long Reef Surf Club to Anzac Ave, Collaroy	Construction of eastern kerb lane	Council	90,500
Woolahra	172	Vernon St to Adelaide St, Bondi Junction	Viaduct	Department	849,034
"	172	Viaduct from Vernon St to Adelaide St, Woolahra	Supply and delivery of steel girders	"	571,585
"	172	Viaduct from Vernon St to Adelaide St, Bondi Junction	Approaches	"	2,377,165
"	173	McLean St to Ocean St, Edgecliff	Widening and associated work	"	200,000
<b>Total Ordinary Main Roads</b>					<u><u>5,566,474</u></u>
<b>(III) ROADS OTHER THAN MAIN ROADS</b>					
Parramatta		Windsor Rd to Ashton St Bridge, North Parramatta	Construction	Department	150,000
"		Pennant Hills Rd near Burnside St to Windsor Rd, Parramatta	Dual carriageway inc. access to Lake Parramatta Reserve	"	50,000
"		Access roads to Westmead Hospital	Reconstruction	Council	100,000
<b>Total Roads other than Main Roads</b>					<u><u>300,000</u></u>

**SUMMARY**

	Works Expenditure \$	Property Acquisitions \$	Total \$
State Highway.....	680,000	—	
Trunk and Ordinary Main Roads .....	5,570,394	—	
Roads other than Main Roads.....	<u>300,000</u>	—	
Total as shown in receipts and payments statement — Appendix No. 1 (B).....			<u><u>6,550,394</u></u>

**APPENDIX No. 7**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) FREEWAYS</b>					<b>\$</b>
<b>Southern Freeway</b>					
Wollongong	F6	Gladstone Ave to Five Islands Rd, Figtree	Dual carriageway	Department	448,149
"	F6	Kanahooka Rd to Emerson Rd, Dapto	"	"	110,484
"	F6	Five Islands Rd to Northcliffe Dr	Dual carriageway inc. interchange at Five Islands Rd	"	35,742*
"	F6	Mt Keira Bridge to Gladstone Ave	Dual carriageway	"	17,754
"	F6	Northcliffe Dr to Kanahooka Rd, Kembla Grange	"	"	2,193,197
"	F6	Twin bridges over Northcliffe Dr, Berkeley	Public utility adjustment	Council	31,600
"	F6	Harvey St, Dapto	Reinforced concrete box girder bridge	Department	13,229
"	F6	Byarong Creek and American Creek	Channel excavation	"	110,407*
"	F6	Byarong Creek, Figtree	Channel excavation and concrete lining	"	16,538
"	F6	Mullet Creek at Kembla Grange, 91.5 km south of Sydney	Prestressed concrete bridge	"	711,802
"	F6	Byarong Creek (Ramp F), Unanderra	Reinforced concrete box culvert	"	110,407
"	F6	Emerson Rd, Dapto	Prestressed concrete bridge	"	267,909
"	F6	Twin bridges over freeway at Northcliffe Dr, Berkeley	Superstructure	"	558,924
					<u>4,331,844</u>
<b>Total Freeways</b>					<u><u>4,331,844</u></u>
 <b>(II) STATE HIGHWAYS</b>					
<b>Princes Highway</b>					
Bega	1	Bridge over Bega River, 11.7 km to 15.1 km south of Allsops Creek	Northern and southern approaches (Stage 1 of Bega By-pass)	Department	722*
Eurobodalla	1	Unnamed Creek, 86.4 km south of Batemans Bay	2 cell box culvert	"	29,553
"	1	Becca Creek at Mogo, 5.31 km south of Batemans Bay	Steel girder bridge	Council	2,573
Greater Lithgow	1	Jubilee overpass at Wollongong	Widening	"	27,791
Imlay	1	Kingswood Creek, 2.8 km south of Bega	Prestressed concrete bridge	Department	199,182
"	1	Wolumla By-pass, 17.5 km to 19.6 km south of Bega	Reconstruction and bituminous surfacing	"	6,378
"	1	55.1 km to 56.1 km south of Bega	Slow vehicle lane	"	116,424
"	1	Freshwater Creek, Eden	Approaches to bridge	"	34,981
"	1	Bega to Frogs Hollow	Reconstruction and bituminous surfacing	"	890,729
"	1	13.2 km to 17.5 km south of Bega	"	"	194*
Shoalhaven	1	Selected lengths within the Shire	Heavy patching	"	5,661
"	1	32.9 km to 36.6 km south of Nowra	Deviation	"	4,950
"	1	37.3 km to 45.4 km south of Nowra	Provision of slow vehicle lanes	"	416,206
"	1	Jaspers Creek, 148.4 km to 150.5 km south of Sydney	Deviation	"	36,707
"	1	Meroo Meadow, 152.1 km to 155.3 km south of Sydney	Improvement of alignment and grading	"	774,424
"	1	Parma Creek, 11 km south of Nowra	Deviation	"	21,487
"	1	Bridge over Shoalhaven River	Prestressed concrete twin bridge girders	"	406,772
"	1	Bridge over Shoalhaven River at Maldon	Public utility adjustment	Council	1,434
"	1	Bomaderry Creek, 1.7 km north of Nowra	Prestressed concrete bridge	Department	251
Wollongong	1	Fairy Creek, 81.27 km south of Sydney	"	"	53,867
"	1	Station St to Fairy Creek	"	"	
"	1	Bridge at North Wollongong	Duplication of carriageway	"	53,867*
"	1	MR513 at Bulli to Lake Illawarra at Windang — full length	Heavy patching, pavement restoration and drainage correction	"	361
"	1 & F8	Junction SH1 and F8 at North Wollongong	Public utility adjustments	"	94,004*
"	1	Mullet Creek, 92 km to 95 km south of Sydney	Deviation	"	20,654

\*Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					\$
<b>Princes Highway — continued</b>					
Wollongong	1	American Creek bridge	Approaches	Council	76,892*
"	1	Gibsons Rd to Five Island Rd, Figtree	Reconstruction, inc. side strips	"	76,892
"	1	Reconstruction between Flagstaff Rd and Orange Grove Ave	Public utility adjustment	"	81,798
"	1 & F8	Bridge to carry SH1 over F8 at North Wollongong	"	"	180,188
"	1	Flagstaff Rd to Orange Grove Rd, 7.7 km to 8.3 km south of Wollongong	Kerbside lanes	"	18,308
					<u>3,181,892</u>
<b>Hume Highway</b>					
Goodradigbee	2	Derringullen Creek, 7.6 km south of Yass	Prestressed concrete bridge	Department	834
Goulburn City	2	Fitzroy Bridge over Mulwaree Ponds at North Goulburn	Reinforced concrete bridge	"	418
"	2	Bridge over Crookwell railway line, 2.2 km north of Goulburn	Demolition	"	3,110
"	2	From Alburn St to Cooper St, Goulburn	Reconstruction and channelisation	Council	4,566
Gundagai	2	41.9 km to 53.4 km south of Holbrook	Asphaltic concrete surfacing	Department	186,462
Gunning	2	39.64 km south of Goulburn	Railway overbridge	"	704
Hume	2	49.1 km to 53.6 km south of Holbrook	Reconstruction	"	80,290
Mulwaree	2	46.3 km south of Mittagong to 73.2 km south of Goulburn	Strengthening and heavy patching	"	120
Wollondilly	2	62.76 km south of Camden to 46.70 km south of Mittagong	Heavy patching of damaged pavement	"	58,133
					<u>334,637</u>
<b>Snowy Mountains Highway</b>					
Cooma	4	173.3 km to 181.3 km south of Cooma	Reconstruction	Department	75,361
"	4	Cooma Back Creek in Sharp St, Cooma	2 span prestressed concrete bridge	"	19*
"	4	Bridge at Sharp St, Cooma	Approaches	Council	41,589
Monaro	4	56.0 km to 64.0 km west of Bega	Strengthening of pavement	Department	4,753
Tumut	4	1.0 km to 6.0 km east of Tumut	Reconstruction, realignment and bituminous surfacing	"	2,074
"	4	Capper St to Wynyard St, 0 km to 1.2 km west of Tumut	Deviation	"	73
"	4	14.09 km to 17.70 km west of Tumut	Reconstruction and bituminous surfacing	"	23,605
"	4	Boundary St to Capper St, 1.2 km to 1.9 km west of Tumut	"	Council	44,758
					<u>192,194</u>
<b>Great Western Highway</b>					
Bathurst City	5	Bentinck St and Durham St, Bathurst	Reconstruction and channelisation of intersection	Department	52,908
"	5	2 km to 14 km east of Bathurst	Reconstruction and bituminous surfacing	"	183*
Blaxland	5	Meadow Flat, 28.5 km to 32.2 km west of Lithgow	"	"	18,468
"	5	MR516 to Marrangaroo Creek, 0 km to 5.84 km west of Lithgow	Dual carriageway	"	241,185
"	5	8.0 km to 40.0 km west of Lithgow	Provision of asphaltic concrete slick sections	"	279,866
"	5	Marrangaroo Creek, 5.8 km west of Lithgow	Prestressed concrete plank bridge	"	123,786
"	5	7.08 km west of Lithgow at Marrangaroo	Railway overpass	"	1,806
Blue Mountains	5	19.0 km to 36.0 km west of Katoomba	Heavy patching	"	184,831
Lithgow	5	0.4 km to 2.3 km west of Lithgow	Reconstruction and bituminous surfacing	"	19,943
"	5	36.0 km to 56 km west of Katoomba	Heavy patching	"	155,585
"	5	18.55 km to 32.55 km west of Lithgow	"	"	42,061
Turon	5	32 km to 34.8 km west of Lithgow	Reconstruction and bituminous surfacing	"	233,333
"	5	Williamsons Springs to Bathurst, 38.6 km to 62.5 km west of Lithgow	Reconstruction, strengthening and drainage correction	"	75,332
					<u>1,428,921</u>

\* Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Mid Western Highway</b>					
Abercrombie	6	Bridge over Evans Plains Creek, 8.6 km west of Bathurst	Approaches	Department	10,930
Bland	6	Floodway (Tea Tree Creek) 6.6 km west of West Wyalong	"	"	50
Cowra	6	Fitzroy St to Carleton St, Cowra, inc. Shell Corner	Reconstruction, improvement and alignment	Council	26,576
Lyndhurst	6	Railway level crossing to Martha St, Blayney	Reconstruction and bituminous surfacing	Department	75,963
"	6	Martha St, Blayney	Reconstruction and realignment	"	6,969
"	6	12.6 km to 16.1 km west of Blayney (Carcoar deviation)	Reconstruction and pavement widening	"	19,524
Waugoola	6	(1) 13.2 km to 14.64 km (2) 14.64 km to 15.25 km east of Cowra	(1) Sealing (2) Widening of formation	Council	727
Weddin	6	52.5 km to 54.5 km west of Grenfell	Widening of formation	"	29,541
"	6	29.0 km to 32.0 km east of Grenfell	"	"	36,615
"	6	0.25 km to 0.9 km west of Weddin	Reconstruction and bituminous surfacing	"	3,169
"	6	Level crossing at Caragabal, 43.56 km west of Grenfell	Widening	"	110
					<b>210,174</b>
<b>Mitchell Highway</b>					
Abercrombie	7	Rocks Creek No. 4, 18.3 km west of Bathurst	Widening of reinforced concrete bridge	Department	64,535
"	7	16.73 km to 19.63 km west of Bathurst	Extension of slow vehicle lane and pavement widening	"	85,375
Bogan	7	3 km to 75 km north of Nyngan	Heavy patching, various lengths	"	7,558
Bourke	7	182.9 km to 185.1 km north of Nyngan	Reconstruction and widening	"	3,674
"	7	6 km to 24 km north of Bourke	"	"	7,052
"	7	185.1 km to 187.0 km south of Bourke	"	"	243,047
"	7	28.18 km to 30.58 km from Bourke	Reconstruction	"	197,245
Cabonne	7	0.74 km south of Molong	Culvert construction	Council	12,869
Canobolas	7	4.06 km to 4.86 km west of Orange	Widening and pavement strengthening	Department	121,270
"	7	47.7 km to 50.6 km west of Bathurst	"	"	462,628
Dubbo	7	19.8 km to 27.4 km north-west of Dubbo	Widening of culverts to full formation width	"	56,078
Molong	7	13.5 km to 20.27 km north of Molong	Reconstruction and bituminous surfacing	"	4,320
"	7	Bridge over Molong Creek, Erambie	Approaches	"	457,012
"	7	Molong Creek, 6.8 km east of Molong	Steel girder and reinforced concrete bridge	"	305,503
Orange	7	Lone Pine Ave and Cox Ave	Reconstruction associated with level crossing	Council	26,934
"	7	Woodward St to Clinton St, Orange	Reconstruction of pavement	"	9,472
Timbrellongie	7	Two level crossings at Trangie, 72.3 km and 75.8 km west of Dubbo	Installation of Type "F" flashing lights	Department	7,506
Warren	7	59.9 km to 75 km south of Nyngan	Reconstruction and widening	"	4,731
Wellington	7	38.6 to 46.2 km north of Molong	Strengthening and widening pavement	"	412,669
"	7	58 km to 63.17 km north of Molong	Reconstruction and bituminous surfacing	"	239,882
					<b>2,729,360</b>
<b>Barrier Highway</b>					
Bogan	8	3 km to 131.4 km west of Nyngan	Heavy patching, various lengths	Department	9,954
Broken Hill	8	2.2 km to 2.8 km east of Broken Hill	Reconstruction and widening	"	98,464
"	8	Willa Willyong Creek, 6.6 km east of Broken Hill	Reinforced concrete bridge	"	141,276
"	8	Willa Willyong Creek, 8.4 km east of Broken Hill	"	"	161,487
"	8	0 km to 1.0 km east of Broken Hill	Restoration of riding qualities	Council	1,221
Central Darling	8	42 km to 48.3 km west of Wilcannia	Reconstruction inc. approaches to Grassmere Crescent overflow bridge	Department	5,179

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Barrier Highway — continued</b>					
Cobar	8	86.4 km to 96.4 km west of Nyngan	Reconstruction and widening	Department	50,541
Murray Darling Division	8	3.0 km to 10.0 km east of Broken Hill	Reconstruction and bituminous surfacing	"	169,591
"	8	Selected lengths 12.0 km to 49.3 km west of Broken Hill	Reconstruction of shoulders	"	529*
"	8	6.4 km to 12.0 km west of Broken Hill	Reconstruction and widening	"	506,749
					1,143,933
<b>New England Highway</b>					
Cockburn	9	31.91 km to 34.0 km north of Tamworth	Slow vehicle lane	Department	143
Denman	9	38.9 km to 45.8 km north of Singleton	Reconstruction and bituminous surfacing	"	339
Muswellbrook Munic.	9	Hunter River — vicinity and upstream of Muswellbrook	Stream control	"	17,401
Patrick Plains	9	7.93 km and 8.32 km east of Singleton	Widening and strengthening of pavement	"	34
Scone	9	26.9 km to 27.5 km north of Muswellbrook	Installation of larger culverts	"	236
Severn	9	26.2 km to 26.6 km north of Glen Innes	Improvement of curve	"	282
"	9	Level crossing at Stonehenge	Department's contribution to P.T.C. work	"	30,731
					49,166
<b>Pacific Highway</b>					
Byron	10	Bangalow, 26.0 km north of Ballina	Railway overbridge	Department	1,023
"	10	Level crossing at Tyagarah, 37.8 km north of Ballina	Railway overbridge and approaches	"	6,883
"	10	Skinnners Creek, 23 km north of Ballina	Reinforced concrete box culvert and approaches	"	83,504
"	10	Railway overbridge, Bangalow, 26.1 km to 26.7 km north of Ballina	Approaches	"	56,125
"	10	51.3 km to 52.6 km north of Ballina	Reconstruction and bituminous surfacing	"	79
"	10	52.8 km to 54.4 km north of Ballina	"	"	139,815
"	10	35.8 km to 37.4 km north of Ballina	Deviation to provide for a railway overbridge at Tyagarah	"	141
"	10	Bridge over Brunswick River 21.0 km north of Bangalow	Approaches	"	1,084
Coffs Harbour Bellingen	10	90.0 km to 101.57 km north of Kempsey	Strengthening and bituminous surfacing, widening on sections	"	49,750
Coffs Harbour	10	20.0 km to 21.0 km and 48.5 km to 49.5 km south of Grafton	Strengthening and bituminous surfacing	"	1,674
"	10	Diamond Head Rd, 21.4 km north of Coffs Harbour	Prestressed concrete bridge	"	536
Gosford	10	Showground Rd, 3.5 km north of Gosford	Improvement of intersection	"	579*
"	10	Cheero Point, 52.6 km north of Sydney	Restoration of slip	Department	15,877
"	10	6.9 km to 7.0 km north of Sydney	Improvement of junction with MR225	"	156,842
"	10	71.5 km to 71.7 km north of Sydney	Restoration of slip	"	36,005
Grafton City	10	Swan Creek, 5.8 km north of Grafton	Prestressed concrete bridge	"	20,742
Great Lakes	10	Traynors Creek, 3.4 km north of Bulahdelah	"	"	10
"	10	Bridge over Traynors Creek, 3.4 km north of Bulahdelah	Approaches	"	332,725
Hastings	10	Heron's Creek, 55.4 km to 55.5 km north of Taree	Widening of approaches	"	35,108
"	10	Telegraph Point, 96.5 km to Barries Creek, 102.9 km north of Taree	Deviation	"	986,690
"	10	39.4 km to 50.17 km north of Taree at Ross Glen	Reconstruction of damaged pavement	"	426,727
"	10	Various sections in Shire	Heavy patching	"	407,295*
"	10	Bridge over Heron's Creek, 55.7 km north of Taree	Widening	"	27,922
Kempsey	10	14.48 km to 19.31 km north of Kempsey	Reconstruction of damaged pavement and concrete surfacing	"	2,071*

\*Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78 \$
<b>(II) STATE HIGHWAYS — continued</b>					
<b>Pacific Highway — continued</b>					
Kempsey	10	Stewarts Corner, Kempsey	Widening and realignment	Council	25,365
Lake Macquarie	10	12.6 km to 13.7 km south of Newcastle	Dual carriageway	Department	52,854
"	10 & 23	Ida St and Pacific Highway, Charlestown	Improvement of intersection	"	6,632
"	10	Mark St to Red Rose Ave, Belmont	Reconstruction of damaged pavement	"	9*
"	10	Robert St to Ada St, South Belmont	Dual carriageway inc. approaches to Cold Tea Creek	"	2*
"	10	150.3 to 151.2 km north of Sydney	Reconstruction and widening	"	114,163
"	10	156.3 km to 156.9 km north of Sydney	Reconstruction of intersection	"	421,316
Maclean	10	31.1 km to 37.8 km south of Woodburn	Reconstruction and bituminous surfacing	Council	130*
Manning	10	Two Mile Creek, 23.0 km to 24.8 km north of Taree	Deviation	Department	241,699
"	10	24.8 km to 28.8 km south of Taree	Reconstruction of damaged pavement	"	253,282
"	10	Various sections in Shire	Heavy patching	"	6,280
"	10	30.6 km north of Taree	Establishment of roadside rest area	"	20,490
"	10	Bridge over Stitts Creek, 2.09 km south of Taree	Widening	"	15,736
Nambucca	10	33.4 km to 37.9 km north of Kempsey	Reconstruction of damaged pavement	"	739,889
Newcastle	10	National Park St to Stewart Ave, Newcastle	Reconstruction inc. channelisation of intersection at Parry St	Council	868*
"	10	Scenic Rd to Hugh St, Merewether	Reconstruction of damaged section	"	71,368
Port Stephens	10	10.0 km north of Bulahdelah	Establishment of rest area	Department	181
"	10	Balikera Canal, 12.52 km to 17.96 km north of Raymond Terrace	Reconstruction and bituminous surfacing	"	13,986
Taree	10	Cubba Cubba Creek, 1.13 km south of Taree	Reinforced concrete bridge	"	16,731
Tintenbar	10	7.2 km to 9.0 km north of Ballina	Strengthening and bituminous surfacing	"	437,251
"	10	114.3 km to 117.0 km north of Grafton	Replacement of timber culverts with concrete box culverts	"	164,333
Tweed	10	16.6 km to 19.5 km north of Murwillumbah	Restoration of southbound carriageway	"	29,931
"	10	15.8 km to 19.6 km north of Murwillumbah (Oak Ave)	Reconstruction and bituminous surfacing, northbound carriageway	"	177*
"	10	Bridge over Condong Creek, 1.3 km north of Murwillumbah	Approaches	"	6,311*
"	10	Alma St intersection, Murwillumbah	Channelisation of intersection	"	9,100
"	10	12.5 km, 8.7 km and 8.2 km south of Murwillumbah	Restoration of slips	"	5,500
"	10	61.85 km to 62.54 km north of Ballina	Strengthening and bituminous surfacing	"	226,099
"	10	1.8 km to 2.13 km south of Tweed Heads	Reconstruction and bituminous surfacing	Council	14,172
Ulmarra	10	8 km to 10 km south of Grafton	Heavy patching	Department	3,914
"	10	20.5 km to 64.3 km north of Grafton	Reconstruction and bituminous surfacing	"	218,356
"	10	Bridge over Swan Creek, 4.0 km to 6.3 km north of Grafton	Approaches	"	297,801
Wyong	10	13.2 km to 13.63 km north of Gosford	Establishment of roadside rest area	Council	4,662
					<u>5,372,913</u>
<b>Oxley Highway</b>					
Coonabarabran	11	2.57 km to 16.0 km east of Coonabarabran	Widening of shoulders on selected lengths	Department	48,195
"	11	54.7 km to 61.1 km east of Coonabarabran	Reconstruction and bituminous surfacing	"	336,076
Coonabarabran	11	Coxs Creek, 63.7 km east of Coonabarabran	Prestressed concrete plank bridge	"	96
Liverpool Plains	11	1.5 km to 10.9 km west of Port Macquarie	Reconstruction of damaged pavement	"	18,315
Hastings	11				

\*Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Oxley Highway — continued</b>					
Liverpool Plains	11	0.8 km west of Carrol	Reinforced concrete box culvert	Council	12,205
"	11	73.4 km to 74.5 km west of Tamworth	Strengthening and widening	"	12,205
Parry	11	25.7 km to 27.1 km west of Tamworth (inc. approaches to Bective Creek)	Reconstruction and bituminous surfacing	"	72,177
"	11	Bridge over Bective Creek, 25.98 km west of Tamworth	Approaches	"	146,972
"	11	Bective Creek, 25.9 km west of Tamworth	Reinforced concrete box culvert	"	4,039*
"	11	New bridge over Bective Creek at 25.99 km west of Tamworth	Construction of sidetrack	"	14,726
Port Macquarie	11	Kooloonbung Creek	Approaches	"	12,205
Walcha	11	54.71 km to 58.73 km east of Walcha	Reconstruction and bituminous surfacing	Department	37,043
"	11	54.71 km to 58.73 km east of Walcha	"	"	63,602
"	11	Various locations, Wauchope to Walcha	Restoration of landslides	"	65,658
Warren	11	East of Warren	Heavy patching and strengthening of pavement	"	43,585
					<b>879,021</b>
<b>Gwydir Highway</b>					
Bookooroo	12	17.2 km to 39.6 km east of Moree	Restoration of pavement	Council	38,207
Boomi	12	64.4 km to 71.4 km from Moree	Reconstruction and bituminous surfacing	Department	477,481
"	12	59.55 km to 64.4 km west of Moree	"	"	135,897
Grafton City	12	0.5 km to 2.66 km at Council boundary, west of Grafton	Widening and re-surfacing	"	56,167
Inverell	12	0.7 km to 2.17 km west of Inverell	Reconstruction and bituminous surfacing	Council	12,907
Macintyre	12	10.2 km to 27.4 km east of Inverell	Strengthening of pavement	"	11,642
"	12	1.93 km east of Delungra	Improvement of curve	"	5,065
Moree	12	1.0 km to 1.15 km east of Moree	Reconstruction of pavement	"	18,534
Nymboida	12	21.2 km to 38.2 km west of Grafton	Reconstruction and pavement strengthening	Department	24,932
Severn	12	5.67 km to 11.15 km east of Glen Innes	Widening and strengthening	"	81,214
"	12	Selected lengths, 78.0 km to 87.0 km east of Glen Innes	Replacement of guard fencing	"	26,428
Yallaro	12	0.8 km to 5 km east of Wyallda	Widening and improvement	Council	2,527*
					<b>885,947</b>
<b>Sturt Highway</b>					
Bairnald	14	73.4 km to 79 km east of Euston	Widening and improvement of two crests	Department	1,649
"	14	0 km to 3.0 km east of Euston	Reconstruction and replacement of irrigation culvert	"	15,194
Hay	14	0.2 km to 80.9 km west of Hay	Widening of pavement shoulders and formation	"	31,969
Kyeamba	14	Kyeamba Creek Bridge	Approaches	"	52,236
"	14	49.5 km to 60.6 km west of Gundagai	Reconstruction and bituminous surfacing	"	272,092
Mitchell	14	51 km to 51.7 km north of Wagga Wagga	Approaches	"	86,482
Wentworth	14	41.8 km to 45.6 km west of Euston	Reconstruction and deviation	"	93,088
"	14	27.4 km to 32.0 km west of Euston	Improvement of crests and widening	"	4,553
"	14	32.5 km to 41.8 km west of Euston	Reconstruction and bituminous surfacing	"	490,278
					<b>1,047,541</b>
<b>Bruxner Highway</b>					
Ashford	16	15.6 km to 18.4 km west of Yetman	Deviation	Council	170,871
"	16	0 km to 4.83 km west of Yetman	Reconstruction and bituminous surfacing	"	2,089
"	16	59.55 km to 65.98 km west of Bonshaw	"	"	40,810
"	16	1.2 km to 14.9 km west and 4.0 km to 12.4 km east of Bonshaw	Strengthening of pavement and sub-soil drainage	Department	5,909
"	16	4.83 km to 11.25 km west of Yetman	Reconstruction and bituminous surfacing	Council	34,174
"	16	Ottleys Creek, 17.7 km west of Yetman	Prestressed concrete bridge	"	3,389

\* Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Bruxner Highway — continued</b>					
Boolooroo	16	0 km to 7.0 km east of Boggabilla	Reconstruction and widening	Council	46,930
"	16	0 km to 8.9 km west of Boggabilla	Reconstruction and bituminous surfacing	Department	149,141
Casino	16	(1) Hickey St to Canterbury St	(1) Reconstruction	Council	47,662
"	16	(2) Walker St to Hickey St	(2) Culvert crossing	"	40,887
"	16	25.09 km to 26.09 km west of Lismore	Reconstruction and bituminous surfacing	"	10,985
Gundurimba	16	8.11 km to 8.36 km west of Lismore	Extension of climbing lane	Department	195,354
Kyogle	16	25.3 km to 26.3 km west of Casino	Strengthening of pavement	"	347
"	16	32.0 km to 36.8 km west of Casino	Strengthening of pavement and bituminous surfacing	"	1,259
"	16	23.0 km to 25.3 km west of Casino	Strengthening of pavement	"	158,666
Lismore	16	30.30 km to 31.31 km west of Ballina	Reconstruction and bituminous surfacing	Council	3,615
Tenterfield	16	40.2 km to 43.5 km east of Bonshaw	"	Department	16,350
"	16	60.02 km to 62.8 km west of Tenterfield	"	"	14*
"	16	31.6 km east of Bonshaw	Reinforced concrete box culvert	"	
"	16	51.5 km to Mole River,	Reconstruction and bituminous surfacing	Council	75,671
"	16	57.24 km west of Tenterfield	Reconstruction, widening and drainage improvement	"	2,828
"	16	18.0 km to 29.0 km west of Tenterfield	Reconstruction and widening	"	4,839
Tomki	16	58.9 km to 61.0 km west of Ballina			<u>1,011,762</u>
<b>Newell Highway</b>					
Berrigan	17	Bridge over Mulwala Canal, 1.1 km north of Finley	Approaches	Department	155*
"	17	11.8 km to 13.3 km north of Finley	Reconstruction and widening of formation	"	340,834
Boolooroo	17	4.0 km to 46.0 km north of Moree	Reconstruction of damaged pavement edges	"	26,673
"	17	14.6 km to 15.4 km south of Moree	Strengthening of pavement	"	250*
Dubbo	17	53.03 km to 54.0 km north west of Dubbo	Construction of approaches to new bridge over Barrabadeen Creek	"	41,178
Gilgandra	17	Level crossing at Gilgandra	Department's contribution to P.T.C. work	"	26,860
Goobang	17	30.57 km to 33.79 km north of Parkes	Reconstruction and bituminous surfacing	"	408,766
"	17	42.7 km to 47.8 km north of Parkes	Widening of culverts	"	22,973
Jemalong	17	From 7.05 km to 10.05 km west of Forbes	Widening and improvement of pavement	Council	36,615
"	17	3.1 km to 6.53 km east of Forbes	Improvement of alignment	"	129,010
Jerilderie	17	Turn back Jimmy Creek, 13.7 km to 14.7 km north of Jerilderie	Approaches	Department	22*
"	17	13.3 km to 34.2 km north of Finley	Reconstruction and widening of formation	"	136,670
"	17	30.6 km to 39.35 km north of Jerilderie	Reconstruction of shoulder edges inc. shoulder sealing	"	37,687
"	17	13.3 km to 18.3 km north of Finley	Widening of 4 water resources commission structures	"	36,980
Moree	17	Joyce Ave to Gosport St, Moree	Sealing of shoulders	Council	2,362
"	17	117.0 km north of Moree	Construction of floodway	Department	33,191
Narrabri	17	Bridges over Narrabri Creek and Narrabri Rivulet, 0.24 to 0.67 km south of Narrabri	Approaches	"	221,018
"	17	Bridge over Namoi River at Narrabri	"	"	31*
"	17	Narrabri Rivulet at Narrabri	Reinforced concrete bridge	"	3,653
"	17	Narrabri Creek at Narrabri	Prestressed concrete girder bridge	"	145,589
Narrandera	17	Whitton St, 0.2 km to 0.4 km south of Narrandera	Improvement of intersection	"	13,690
Parkes	17	Baker St to Hartigan Ave, Parkes	Reconstruction and bituminous surfacing	Council	1,211
"	17	Hartigan Ave to Medlyn St, Parkes	"	Department	187,802
"	17	Clarinda St, Parkes	"	"	47,420
					<u>1,899,724</u>

\* Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Castlereagh Highway</b>					
Coonamble	18	Aberford St. Coonamble, 0.11 km to 0.56 km north of Coonamble	Heavy patching	Department	15,398
"	18	44.3 km to 96.1 km north of Gilgandra	Heavy patching of selected lengths	"	18,594
"	18	Coonamble to Walgett	Restoration of isolated sections of damaged pavement	"	181,702
"	18	2.9 km to 7.4 km south of Coonamble	Reconstruction and bituminous surfacing	"	5,135*
Walgett	18	0.4 km to 1.6 km north of Walgett	Approaches to Namoi River Bridge	"	223
"	18	80.45 km to 93.32 km north of Walgett	Reconstruction and bituminous surfacing	"	99,728
"	18	0 km to 4.83 km south of Walgett	Additional floodways	"	335,193
"	18	MR437 to Queensland Border	Reconstruction, gravelling and causeway improvements	"	33,572
					<u>679,275</u>
<b>Monaro Highway</b>					
Bibbenluke	19	20.26 km to 25.9 km south of Bombala	Reconstruction and gravel surfacing	Council	23,938*
"	19	17.07 km to 34.3 km south of Bombala	Gravelling and sealing	"	286,819*
"	19	Little Plains Creek, 19.3 km south of Bombala	Prestressed concrete bridge	"	106*
"	19	Bridge over Little Plains Creek, 19.32 km south of Bombala	Approaches	"	1,805
Cooma	19	Bridge over Cooma Creek, Bombala St. Cooma	"	"	36,063
Monaro	19	Bridge over Bredbo River at Bredbo	Fabrication of steel girders	Department	58,779
"	19	Bredbo River at Bredbo	Reinforced concrete bridge	"	220,448
"	19	78.0 km to 82.0 km south of Canberra, inc. approaches to Bredbo River	Reconstruction and bituminous surfacing	"	657,004
"	19	40.16 km to 40.46 km south of Cooma	Improvement of drainage and strengthening of pavement	"	49,223
"	19	37.0 km to 53.6 km north of Bibbenluke Shire Boundary	"	"	3,934
"	19	94.0 km to 95.0 km south of Canberra (Driscolls Hill)	Extension of climbing lane	"	4,835
"	19	82.0 km to 89.0 km south of Canberra	Reconstruction and bituminous surfacing	"	97,132
					<u>818,360</u>
<b>Riverina Highway</b>					
Berrigan	20	Charter St. Berrigan from Jerilderie St to Mitchell St	Reconstruction and bituminous surfacing	Council	3,172
"	20	5.0 km to 6.9 km west of Finley	Reconstruction of damaged pavement	Department	15,186
"	20	Momalong St to Nangimia St. Finley	Raising of pavement	Council	34,174
Conargo	20	31.7 km to 50.6 km west of Finley	Reconstruction of shoulder edges, inc. shoulder sealing	Department	86,443
					<u>138,975</u>
<b>Cobb Highway</b>					
Central Darling	21	4.83 km to 12.87 km south of SH8 near Wilcannia	Reconstruction and bituminous surfacing	Department	19,020
"	21	55.6 km to 67.6 km south of Wilcannia	"	"	18,787
"	21	At Ivanhoe	Raising of level crossing	Council	129*
Deniliquin	21	Riverina and Cobb Highways	Reconstruction of intersection	"	66,156
Hay	21	76.8 km to 77.7 km north of Hay	Approaches to bridge at Booligal	Department	538
"	21	Level crossing at Hay	Department's contribution to P.T.C. work	"	5,276
Murray	21	Level crossing at Barnes, 13 km north of Moama	Installation of flashing lights	"	22,273
					<u>131,921</u>

\*Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>State Highway No. 23</b>					
Lake Macquarie	23	0.6 km to 1.6 km north of Charlestown	Reconstruction and bituminous surfacing	Council	24,229
Newcastle	23	Between Vale St and Marton St, Shortland	Resheeting and strengthening of pavement	"	36,615
"	23	Blue Gum Rd, Jesmond	Reconstruction and asphaltic concrete surfacing	"	130,016
"	23	Wimbledon Grove, Kotara Heights	Slow vehicle lane	"	40,277
"	23	Astra St, Sandgate	"	"	17,087
					<u>248,224</u>
<b>Illawarra Highway</b>					
Wingecarribee	25	58.9 km to 62.83 km west of SH1, inc. bridge over Wells and Black Bobs Creek	Reconstruction and approaches to bridge	Department	464,368
"	25	62.8 km to 63.9 km west of SH1	Improvement of alignment	"	150,272
"	25	Selected lengths, 6.1 km to 28.6 km east of Moss Vale	Heavy patching	"	1,069*
					<u>613,571</u>
<b>State Highway No. 26</b>					
Gosford	26	Caiga interchange to 4.0 km north of Caiga	Additional lane	Department	1,567*
					<u>1,567*</u>
<b>Total State Highways</b>					<u><u>22,995,944</u></u>
<b>(III) TRUNK AND ORDINARY MAIN ROADS</b>					
Abercrombie	54	48 km to 49.1 km south of Bathurst	Reconstruction and bituminous surfacing	Council	14,623*
"	252	40.23 km to 43.45 km south of Bathurst	"	"	7,853*
Albury	125	Culvert over Bungambrawatha Creek at Urana	Approaches	"	17,159
Armidale City	74	Taylor St to Douglas St, Armidale	Reconstruction and bituminous surfacing	"	4,129*
"	74	From Douglas to Chappel St, Armidale	"	"	39,056
Ashford	63	Rocky Dam Bridge, 22.1 km south of Yetman	Approaches	"	17,211
"	63	Ottilays Creek, 52.5 km north of Wyallda	Prestressed concrete bridge and approaches	"	2,252
"	137	Myall Creek, 18.51 km north of Ashford	Prestressed concrete bridge	"	66,170
"	137	Waterhole Creek, 19.3 km north of Ashford	Reinforced concrete box culvert	"	8,001
"	137	31.16 km to 33.0 km north of Ashford	Reconstruction and bituminous surfacing	"	15,867
"	137	29 km to 36.3 km north of Ashford	"	"	1,077*
"	137	Section 34.7 to 36.29 km north of Ashford	"	"	24,316
Bairanald	67	37 km to 39 km north of Bairanald	Reconstruction and bituminous surfacing	"	5,827
Barraba	63	Bridge over Sheepstation Creek, 18.5 km north of Barraba	Approaches	"	37,360
"	132	6.47 km to 9.83 km north-east of Barraba	Reconstruction and bituminous surfacing	"	1,294
"	132	17.91 km to 19.97 km east of Barraba	"	"	25,020
"	360	18.08 km to 18.83 km north of Cobbadah	Reconstruction including drainage	"	12,205
Bathurst City	54	Bentlnck St to Bent St, Bathurst	Reconstruction and bituminous surfacing	"	494*
"	54	Railway overbridge at Rocket St, Bathurst	Approaches	"	494
"	253	Body Creek on deviation at Kelso	Reinforced concrete box culvert	"	5,756
Bellingen	76	Dorrigo Mountain Pass, 0.35 km to 2.06 km north of Thora	Improvement of alignment	"	99,286
"	76	18.1 km to 18.72 km west of Bellingen	Improvement of alignment	"	112,286
Berrigan	363	4.02 km to 8.05 km north of MR550	Reconstruction and bituminous surfacing	"	2,496
"	363	0.65 km north of MR550 at Barooga	Widening of Water Resources Commission structure	"	7,078

\* Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Bibbenluke	91	21.1 km to 22.65 km east of Bombala	Reconstruction and bituminous surfacing	Council	571*
"	91	22.65 km to 25.65 km east of Bombala	"	"	152,563*
"	91	23.41 km east of Bombala	Reinforced concrete box culvert	"	686
"	93	Bridge over Saucy Creek, 10.6 km south-east of Bombala	Approaches	"	9,109*
Bingara	63	23.57 km to 24.57 km north of Bingara	Strengthening and widening of pavement	"	9,764
"	134	14.68 km to 20.07 km north-east of Bingara	Reconstruction and bituminous surfacing	"	108,092*
Bland	57	1.8 km to 5.9 km north of West Wyalong	"	"	37,741
"	57	30.6 km to 46 km north of West Wyalong	"	"	50,918
Blaxland	55	7.25 km to 53.8 km north of Lithgow	Heavy patching	Department	136,132
"	55	14.7 km to 19.4 km north of Lithgow	Reconstruction and bituminous surfacing	"	333*
"	292	Rydal	Installation of "F" Type flashing lights	Council	7,323
"	516	4.2 km to 15.1 km east of Lithgow	Replacement of cable fence by chain wire fence, 1600 m in length	Department	8,751
"	531	3.7 km to 5.3 km north of SH5	Reconstruction and bituminous surfacing	Council	4,400
Bogan	70	12.0 km to 16.1 km from Coolabah	Bituminous surfacing	"	19,408
"	70	12.0 km to 16.1 km from SH7 towards Gongolgon	Reconstruction to basecourse level	"	35,683
"	204	Belar Creek, 12.0 km north of Nyngan	Reinforced concrete box culvert	"	91,538
"	424	0.5 km to 9.0 km north of Coolabah	Reconstruction	"	1,221
Bombala	91	From 25.65 km to 27.18 km east of Bombala	"	"	92,839
Boobooroo	507	From 9.2 km to 13.2 km east of Boomi	Reconstruction and bituminous surfacing	"	97,640
"	507	5.2 km to 10.2 km east of Boomi	"	"	45,158
"	507	Black Gully at 71.9 km east of Boomi	Reinforced concrete box culvert and approaches	"	14,616
Boomi	232	74.10 km to 75.25 km north of Moree	Reconstruction and bituminous surfacing	"	2,224
"	367	59.75 km to 61.75 km north of Moree	"	"	67,128
Boorowa	56	42.2 km to 45.23 km north of Boorowa	"	"	1,182
"	56	Bridge over Narellan Creek, 21.0 km north of Boorowa	Approaches	"	29,301
"	56	Narellan Creek, 21 km north of Boorowa	Composite steel girder, reinforced concrete bridge	"	14,904*
"	241	Ryans Creek at Pudman St, Boorowa	Prestressed concrete bridge	"	31,279
"	241	New bridge over Ryans Creek in Pudman St, Boorowa	Approaches	"	13,426
Bourke	68	6.02 km to 7.52 km east of Bourke	Reconstruction and bituminous surfacing	"	47,055
"	68	2.0 km south and 1.6 km east of Bourke	Improvements to levee bank crossings	"	27,008
Bowral	260	9.64 km south of SH2	Improvement of sight distance	"	33,564
"	260	7.0 km south of SH2	Extension of crib wall	"	5,492
Brewarrina	70	3.15 km to 10.2 km north of Brewarrina	Strengthening of pavement	"	2,527
"	70	26.6 km to 30.5 km north of Brewarrina	Gravelling and primer sealing	"	18,275
Broken Hill	66	4.0 km east of Broken Hill	Culvert construction and improvement of level crossing	"	537*
Burrangong	78	31.63 km to 32.63 km north of Young	Reconstruction and widening	"	55,065
"	78	3.5 km to 8.9 km south of Young	Reconstruction and bituminous surfacing	"	2,312*
"	78	38.52 km to 39.4 km north of Young	Strengthening and widening of pavement	"	249*
"	241	10.96 km to 17 km east of Young	Reconstruction and bituminous surfacing	"	44,888
"	241	9.55 km to 12 km east of Young	Reconstruction and bituminous surfacing	"	249
"	241	6.4 km to 10.96 km east of Young	"	"	61,571
"	241	6.4 km to 15.0 km east of Young	"	"	61,025*
Byron	65	0.13 km to 1.09 km west of Bangalow	"	"	54,774
"	65	Shirley St, Byron Bay	Alteration to railway level crossing	"	3,234

\*Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Canobolas	61	1.3 km to 2.55 km west of Orange	Reconstruction and bituminous surfacing		1,939
"	61	2.55 km to 4.80 km from Orange City Boundary	"	Council	109,845
Carrathool	368	2.2 km to 3.9 km west of Rankins Springs	"	"	8,532
"	368	0 km to 8.8 km west of Rankins Springs	Improvement of drainage	"	3,645
"	501	13.0 to 18.0 km east of Hillston	Reconstruction and bituminous surfacing	"	29,807
Casino	63	Bent St to Queensland Rd, Casino	"	"	17,000
Central Darling	66	Bridge over Darling River at Menindee	Approaches	"	14,162
"	66	18.92 km west of Menindee	Raising of level crossing	"	3,079
"	66	Darling River at Menindee	Steel and concrete bridge	Department	29,448
"	66	3 km west of Menindee	Raising of level crossing	Council	666
"	66	0.4 km to 1.1 km south of Menindee	Reconstruction and bituminous surfacing	"	14,162*
"	429	0.8 km to 4.9 km north of Wilcannia	"	"	40,521
"	433	92.0 km to 97.0 km west of Darnick	Reconstruction and gravel surfacing	"	60
"	433	115.56 km to 134.56 km west of Darnick	Formation and gravel surfacing of selected lengths	"	2,408
"	435	42.2 km to 70.7 km north of Wilcannia	Reconstruction and bituminous surfacing	"	5,828
Cobar	411	2.0 km to 3.5 km from Euabalong towards Euabalong West	"	"	41,608
"	421	14.7 km to 19.4 km north of Cobar	"	"	40,582
Cockburn	63	30.06 km to 30.7 km north of Tamworth	"	"	3,405
Coffs Harbour	151	Coffs Creek, 5.6 km west of Coffs Harbour	Reinforced concrete box culvert	"	6,103
"	151	Nana Creek, 57.3 km south of Grafton	Approaches to bridge	"	3,105
"	151	Bridge over Coffs Creek, 5.6 km west of Coffs Harbour	"	"	3,934
"	151	Duckan Duckan Creek, 17.8 km north of Coffs Harbour	Reinforced concrete box culvert	"	749
"	151	Nana Creek, 26.0 km north of Coffs Harbour	3 span prestressed concrete plank bridge	"	3,299
"	151	Coffs Creek, 5.6 km west of Coffs Harbour	Reinforced concrete box culvert	"	6,103*
Colo	182	Bridge over Addys Creek, 8.04 km north of Wilberforce	Approaches	"	51
"	503	24 km to 24.1 km from Windsor	Safety ramp	Department	649
"	503	Bridge over Currency Creek, 8.6 km to 9 km north of Windsor	Approaches	"	325
"	503	Bridge over Roberts Creek, 16.4 km to 17.8 km north of Windsor	Deviation for approaches	"	1,661
"	503	17.54 km to 18.02 km north of Windsor	Reconstruction and bituminous surfacing	"	3,363
"	503	Various locations, 22.0 km to 26.0 km north of Windsor	Strengthening of pavement	"	140,290
Conargo	552	Water Resources Commission bridge, 17.6 km north of Deniliquin	Widening	Council	27,461
"	552	17.0 km to 20.8 km north of Deniliquin	Reconstruction and bituminous surfacing	"	64,077
Condobolin	61	0.37 km to 2.37 km north of Condobolin	Strengthening of pavement	"	21,710
Coolah	55	14 km to 18 km north of Coolah	Reconstruction and bituminous surfacing	"	76*
"	55	10.95 km to 13 km north of Coolah	Reconstruction and bituminous surfacing	"	537*
"	55	19 km to 25.7 km north of Coolah	"	"	17,459
"	77	Bridge over Merrygoen Creek, 0 km to 0.8 km south of Mendooran	Approaches	"	14,646
"	77	Merrygoen Creek at Mendooran	Steel and concrete bridge	"	20,359
"	77	Bridge over Merrygoen Creek, 0 km to 0.64 km south of Mendooran	Approaches	"	12,205
"	206	Bridge over Tucklan Creek, 9.90 km to 9.95 km west of Dunedoo	"	"	10,985
"	206	Bridge over Sandy Creek, 24.8 km west of Dunedoo	"	"	5,199
Coolamon	398	11.5 km to 14.8 km north of MR240	Reconstruction and bituminous surfacing	"	7,080
"	398	29.24 km to 32.97 km north of Coolamon	"	"	8,977

\*Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Coonabarabran	55	Bomera Creek, 49.7 km north of Coolah	5 span bridge	Council	48,820
"	396	Merryula Creek, 25.4 km north of Binnaway	Reinforced concrete box culvert	"	439
"	396	24.9 km to 25.3 km north of Binnaway	Reconstruction and bituminous surfacing	"	7,235
Coonamble	383	15.9 km to 20 km north of Coonamble	Reconstruction and bituminous surfacing	"	2,563
Cootamundra	78	7.6 km to 20.6 km south of Cootamundra	Reconstruction and bituminous surfacing	"	45,298
"	78	4.5 km to 6.5 km south of Cootamundra	Reconstruction and widening	"	1,941
Copmanhurst	83	39.0 km to 48.0 km north of Grafton	Reconstruction of damaged pavement	"	26,907
"	150	Bridge over Deep Creek, 93.2 km north of Grafton	Approaches	"	6,049
Corowa	86	0 km to 3.0 km south of SH20	Reconstruction and bituminous surfacing	"	24,569
Cowra	310	2.9 km to 3.95 km north of Cowra	"	"	1,037*
"	310	Between Myall St and Macassar St, Cowra	"	"	11,924
Crookwell	201	Junction Point Rd to Reids Flat Rd, Crookwell	"	"	4,118
"	248	14.6 km to 16.9 km west of Crookwell	"	"	24,410
Denman	209	Culvert over Ramrod Creek, 2.7 km south of Muswellbrook	Approaches	"	17,396
"	209	Ramrod Creek, 2.7 km south of Muswellbrook	Reinforced concrete box culvert	"	21,705
"	213	48.82 to 50.35 km west of Singleton	Reconstruction and bituminous surfacing	"	93,841
Dumaresq	74	Ebor, 76.54 km to 78.36 km east of Armidale	"	"	79,119
"	74	79.4 km to 82.3 km east of Armidale	"	"	11,119
"	74	74.03 km to 76.12 km east of Armidale	"	"	8,178
"	75	100.0 km east of Armidale	Culvert replacement	"	26,851
Dungog	101	Railway level crossing at Dungog	Installation of "F" Type signals	"	51*
"	101	Level crossing south of Wallarobba	Department's contribution to P.T.C. work	Department	57,875
"	101	Patterson level crossing	Installation of "F" Type flashing lights and warning bells	Council	5,850
"	289	3.2 km to 4.6 km east of MR101	Reconstruction and bituminous surfacing	"	42,789
Eurobodalla	51	34.55 km to 35.85 km west of Batemans Bay	Guardrail	"	6,103
"	51	31.0 to 31.39 km west of Bega	Sealing of slow vehicle lane	"	10,985
"	51	20.3 km to 21.54 km west of Batemans Bay	Construction of slow vehicle lanes	"	80,700
"	271	Bridge over Moruya River at Kiora, 3.94 km west of Moruya	Approaches	"	74,634
Forbes	56	Berkeley St to Iron Bridge, Forbes	Reconstruction and bituminous surfacing	"	17,087
Gilgandra	205	Tooraweenah Creek, 3.7 km north of SH11	Reinforced concrete bridge	"	1,221
Gloucester	90	1.0 km east of Gloucester	Installation of "F" Type flashing lights and warning bells	"	4,371*
"	90	Bridge over Avon River, 13.26 km to 13.93 km south of Gloucester	Approaches	"	13,426
"	90	Gloucester South to SH10, various locations	Reconstruction of damaged pavement	"	39,056
"	90	0.5 km to 0.9 km east of Gloucester	Reconstruction and bituminous surfacing	"	33*
Goobang	238	Mugincoble to Jemalong Shire Boundary	"	"	91,538
"	350	16.09 km to 21.08 km north of Trundle	"	"	19,970
Goodradigbee	278	15.9 km to 18.5 km south of Yass	Bituminous surfacing	"	38,446
Gosford	336	14.65 to 15.15 km south of MR395	Reconstruction and bituminous surfacing	"	3,687
"	349	Bridge over Brisbane Waters at The Rip	Approaches	"	31,841
"	504	MR336 to Kincumber	Reconstruction and widening	"	99,012
"	504	5.03 km east of MR336	Reinforced concrete box culvert	"	1,084
"	505	1.48 km to 2.67 km east of MR336	Reconstruction and bituminous surfacing	"	23,168
Goulburn City	54	0 km to 0.8 km west of Goulburn	Improvement of drainage	"	1,894*
"	256	4.49 km to 5.10 km north of Goulburn	Reconstruction and sealing	"	31,186
Grafton City	74	Cambridge St to George St, Grafton	Reconstruction and bituminous surfacing	"	441*

\* Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Grafton City	74	George St to Tyson St, 3.0 km to 3.3 km south of Grafton	Reconstruction and widening of bituminous pavement	Council	239
"	74	4.08 km to 4.37 km south of Grafton	Reconstruction and widening	"	15,867
"	83	Dobie St between Prince St and Queen St, Grafton	Relocation of water main from road pavement to footpath	"	7
Great Lakes	90	39.18 km to 60.24 km south of Taree	Reconstruction of damaged sections	"	18,308
"	90	19.75 km to 19.95 km and 22.25 km to 22.45 km north of Stroud	"	"	36,615
"	90	Cameron's Creek, 7.7 km south of Booral	Approaches to bridge	"	6,103*
"	111	Bridge over Wallamba River, Forster	Supply and fabrication of tube caissons	Department	2,706
"	111	Various lengths, 58.4 km to 60.5 km north of Bulahdelah	Reconstruction of damaged pavement	Council	18,308
Greater Cessnock	181	7.74 km to 16.17 km south of Wollombi	Reconstruction and bituminous surfacing	"	18,308
"	195	Smelter Rd, Cessnock	Reconstruction of intersection	"	9,508
"	218	Bridge over Black Creek, Wollombi Rd, Cessnock	Approaches	"	11,324
"	220	23.8 km to 24.51 km south of Cessnock	Reconstruction and bituminous surfacing	"	85,435
"	220	Cessnock towards Freemans Waterholes, 23.4 km to 24.4 km	"	"	37,379
"	220	Bangalow Creek, 21.58 km south of Cessnock	Prestressed concrete bridge	"	79,333
"	220	Brunkerville Creek, 24.1 km east of Cessnock	Reinforced concrete box culvert	"	30,297
"	590	4.05 km to 7.35 km south of MR181	Reconstruction and bituminous surfacing	"	62,921
Gundagai	243	24.50 km to 33.50 km west of Gundagai	"	"	19,528
"	279	5.62 km to 7.11 km south of Gundagai	Relocation, reconstruction and bituminous surfacing	"	57,364
"	279	13.2 km to 16.66 km south of Gundagai	Reconstruction and bituminous surfacing	"	21,511
Gunning	52	Bridge over Yass River, 32.1 km south of Gunning	Reconstruction of approaches	"	11,431
"	52	26.0 km to 29.34 km south of Gunning	Reconstruction and bituminous surfacing	"	2,477
Guyra	73	19.0 km to 23.0 km south of Inverell	"	"	51,281
"	135	27.36 km to 28.65 km west of Guyra	"	"	573*
"	135	30.42 km to 32.03 km west of Guyra	"	"	21,803
Harden	84	Bridge over Spring Creek, 14.5 km east of Murrumburrah	Approaches	"	115,609
"	84	7.7 km to 9.55 km west of Harden	Reconstruction and bituminous surfacing	"	49,158
"	84	Spring Creek, 14.5 km east of Murrumburrah	Prestressed concrete bridge	"	103,743*
Hastings	600	Fernbank Creek, 5.28 km north of SH11	"	"	7,396
"	600	Fernbank Creek, 5.28 km north of SH11	Approaches to bridge	"	45,159
Holbrook	284	0 km to 0.5 km east of MR384	Reconstruction and strengthening	"	14,679
"	284	46.2 km to 61.3 km west of Tumbarumba	Reconstruction and bituminous surfacing	"	111,603
"	284	Bridge over Little Billabong Creek, 0 km to 0.72 km east of SH2	Approaches	"	1,872
Hume	78	10.6 km to 12.7 km North of Albury	Reconstruction and bituminous surfacing	"	67,828
Illabo	78	33.2 km to 38.3 km north of Wagga Wagga	Reconstruction and widening	"	27,620
Imlay	91	13.8 km to 16.55 km west of Pambula	Reconstruction and bituminous surfacing	"	5,989
"	91	39.5 km to 42.75 km west of Pambula	"	"	24,410
"	91	31.8 km to 33.1 km west of Pambula	Reconstruction and bituminous surfacing	"	46,472
"	91	Honeysuckle Creek, 25.4 km east of SH 1	Steel girder bridge	"	20,749
"	275	Candelo Creek at Candelo	Prestressed concrete bridge	"	108
Jemalong	237	32.7 km to 35.6 km north of Grenfell	Reconstruction and bituminous surfacing	"	2,238*
Junee	78	1.35 km to 2.87 km west of Junee	"	"	18,015



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Kempsey	75	55.0 km to 59.5 km west of Kempsey	..	Council	58,584
..	75	Hickeys Creek, 31.78 km west of Kempsey Municipal Boundary	Prestressed concrete bridge	..	100*
..	75	Level crossing, Belgrave St, Kempsey	Installation of "F" Type flashing lights and half boom gates	..	10,343
..	198	32.74 km to 32.76 km north of Kempsey	Construction intersection with Jerseyville Bridge approach	..	13,705
Kiama	264	15.9 to 17.2 km west of Kiama	Reconstruction and bituminous surfacing	..	91,189
Kyeamba	78	Bridge over Yerong Creek, 1.21 km north of Yerong Creek	Approaches	..	13,206
..	211	14.0 km to 15.98 km south of Wagga Wagga	Reconstruction and bituminous surfacing	..	31,699
..	211	11.8 km to 14.1 km south of Wagga	..	..	30,625
Kyogle	83	30.52 km to 31.36 km north of Casino	..	..	54,923
..	361	Bottle Creek, 58.7 km south of Woodenbong	Prestressed concrete bridge	..	19,069
Lachlan	57	3.2 km to 6.4 km north of Tottenham	Reconstruction and bituminous surfacing	..	31,490
..	57	Bridge over Wallamundry Creek, 11.5 km south of Condobolin	Approaches	..	17,513
..	371	2.22 km to 5.67 km south of Lake Cargelligo	Reconstruction and bituminous surfacing	..	74,451
Lake Macquarie	217	45.45 km south of SH23	Widening of existing reinforced concrete box culvert	..	1,808
..	217	Bridges over Cackle Creek at Speers Point	Approaches	..	3,929*
..	220	Millford St, William St and Jindalee St, Toronto	Improvement of junctions	..	7,372
..	223	Cocked Hat Creek, 12.25 km west of Cardiff	Widening of approaches	..	25,405
..	325	Ryan St to Albert St, Speers Point	Reconstruction and bituminous surfacing	..	44,349
..	325	0 km to 1.31 km west of MR217	Deviation	..	24,923
..	325	Gari St and Cadaga Rd	Improvement of intersection	..	44,624
..	527	3.18 km to 3.65 km west of Warners Bay, Lake Macquarie	Relocation of water main	..	24,410
Leeton	80	7.36 km to 13.5 km east of Leeton	Reconstruction and bituminous surfacing	..	683
Lismore	65	0.55 km to 1.88 km north of intersection with SH16	..	..	11,442
..	65	1.8 km to 2.77 km east of Lismore	..	..	475
..	146	19.31 km to 20.20 km west of Ballina	..	..	36,615
..	544	Pine Creek, 9.1 km west of Lismore	Construction of new bridge	..	6,103
..	555	Elizabeth St to Skyline Rd, Wardell	Reconstruction and bituminous surfacing	..	14,188
Lithgow	55	Ben Bullen Rd, Lithgow	Installation of "F" Type flashing lights and warning bells	Department	115,322
Liverpool Plains	55	Unnamed Creek, 23.87 km south of SH11	Reinforced concrete box culvert	Council	10,576
Lockhart	78	31.7 km to 33.1 km south of SH14	Reconstruction and bituminous surfacing	..	21,200
..	78	47.82 km to 50.5 km south of Wagga Wagga	..	..	75,347
..	78	49.5 km to 51.7 km and 57.8 km to 60.3 km south of Wagga Wagga	..	..	25,997
Lyndhurst	245	Nyes Gate level crossing	Installation of flashing lights	..	6,103
..	246	6.1 km to 7.36 km north of Newbridge	Reconstruction and bituminous surfacing	..	46,841
Macintyre	135	40.25 km to 42.8 km south of Inverell	..	..	62,246
..	136	12.13 km to 16.9 km north of Inverell	..	..	29,032
Maclean	152	6.0 km to 7.0 km east of Maclean	Reconstruction and bituminous surfacing	..	3,662
..	152	0 km to 0.24 km west of SH10	..	..	1,436
..	152	7.0 km to 8.0 km east of Maclean	Reconstruction and bituminous surfacing	..	37,620
Maitland	101	Bridge over Mindaribba Creek, 9.1 km north of Maitland	Approaches	..	24,410

\*Credit

# **APPENDIX No. 7 — continued** **COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
(iii) TRUNK AND ORDINARY MAIN ROADS — continued					\$
Maitland	104	5.13 km to 13.9 km east of Maitland	Bituminous surfacing	Council	25,271
"	218	Between Bonar St and Steam St, Maitland	Reconstruction and bituminous surfacing	"	2,335*
Manilla	553	0 km to 2 km west of TR63, Moonaran	"	"	24,507
Manning	90	0.7 km to 3.5 km west of SH10 at Purfleet	Reconstruction and sealing	"	55,548
"	109	11.43 km to 16.74 km north of Wingham	Reconstruction and bituminous surfacing	"	989*
Merriwa	62	0 km to 4.74 km west of MR214, towards Curryall	Reconstruction and realignment	"	11,520
"	358	Coulsons Creek double crossing, 10.9 km north of Merriwa	Reinforced concrete box culvert construction	"	51,261*
Mitchell	78	12.36 km to 15.74 km north of Wagga Wagga	Reconstruction and bituminous surfacing	"	40,144*
Mittagong	260	1.08 km to 2.8 km south of SH2	Reconstruction and bituminous surfacing	"	207,585
"	260	Old Bowral Rd, 1.08 km to 1.43 km south of SH2	Reconstruction of intersection improvement	"	38,416
Moree	232	Intersection with SH17	Erection and dismantling of temporary bridging and removal of old bridge	"	2,362*
Mudgee	55	Bridge over Cudgong Creek at Cudgong	Reconstruction and bituminous surfacing	"	115,948
"	233	35.4 km to 40.1 km west of Gulgong	Prestressed concrete bridge	Department	82,383
"	321	Murrumbidgee River, Darlington Point	Prestressed concrete bridge inc. approaches	"	726,289
"	321	Bridge over Murrumbidgee River, Darlington Point	Reconstruction to basecourse	Council	474,852
Mulwaree	268	1.7 km to 2.36 km south of Tarago	Approaches	"	69,731
Mumbulla	272	Bridge over Narira Creek, 1.1 km to 2.2 km east of Cobargo	"	"	98,590
"	272	Booths Creek Bridge, 18.5 km to 20.0 km north of Bega	"	"	64,801
"	272	19.8 km to 21.3 km north of Bega-	Reconstruction	"	2,043*
"	272	Booths Creek, 19.2 km north of Bega	Reinforced concrete box culvert	"	5,554
"	273	5.15 km to 6.5 km west of Bega	Reconstruction	"	1,752
"	320	Narira Creek, 2.1 km east of Cobargo	Reinforced concrete box culvert and approaches	"	1,149*
Murray	94	14.6 km to 15.4 km west of Deniliquin	Reconstruction and bituminous surfacing	"	1,221
"	341	70.97 km to 74.19 km from Moama	Reconstruction and bituminous surfacing	"	119,609
"	341	39.7 km to 45.82 km north of Moama	"	"	8,092
Murray Darling Division	66	3.9 km to 4.1 km east of Broken Hill	"	Department	58,761
Murrumbidgee	321	68.3 km to 78.0 km north of SH17	Widening and bituminous surfacing	Council	21,176
"	321	0 km to 1.21 km from SH14 at Waddi	Deviation	"	8,907
Murrumbidgee	358	25.6 km to 28.8 km south of SH9	Reconstruction and bituminous surfacing	"	38,025
Nambucca	118	18.06 km to 19.38 km north-west of Macksville	"	"	54,923
Namoi	127	8.64 km to 9.66 km west of Wee Waa	Construction of basecourse	"	24,410*
"	127	7.48 km to 7.88 km west of Wee Waa	Reconstruction and bituminous surfacing, inc. reinforced concrete box culvert	"	3,942*
"	127	8.64 km to 10.46 km west of Wee Waa	Reconstruction and bituminous surfacing	"	50,805
Narraburra	387	35.0 km to 43.0 km west of Temora	Reconstruction and widening	"	24,908
Narrandera	80	4.0 km to 5.0 km west of SH17	Reconstruction and bituminous surfacing	"	15,218
"	80	0.71 km to 1.6 km west of SH17	"	"	2,175*
"	80	0.72 km to 1.61 km west of Narrandera	Reconstruction and bituminous surfacing	"	20,548
Newcastle	82	Broadmeadow Rd to Chatham Rd, Broadmeadow	Reconstruction, inc. bridge over stormwater channel	"	1,003
"	82	Lloyd St to Croudace St, Lambton	Reconstruction and bituminous surfacing	"	289,741
"	82	Lawson St to Samdon St, Hamilton	Slow vehicle lane	"	257,512

\* Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Newcastle	82	Stormwater channel at Richardson Park	Reinforced concrete bridge	Council	242*
"	82	Donald St, Newcastle	Railway overbridge	"	21,321
"	108	Newcastle-Stockton Ferry Service	Demolition	Department	2,277
"	217	Cobby St to McArthur St, Birmingham Gardens	Reconstruction and bituminous surfacing	Council	5,000
"	217	Jubilee Rd, Wallsend to Southern City Council Boundary	Southbound carriageway	"	66,196
"	217	1.4 km south of SH23 at Birmingham Gardens	Amplification of culvert over stormwater channel	"	8,702
"	326	Lexington Pde, Adamstown Heights to SH10	Reconstruction and bituminous surfacing	"	137*
"	326	Georgetown Rd to Griffith Rd, TR82, Lambton	Reconstruction of southbound carriageway	"	1,641*
"	326	Turton Rd to Griffiths Rd, Mayfield	Reconstruction and bituminous surfacing	"	3,162*
"	603	Near Carisbrooke Ave, Kotara	Investigation of slip area and application of remedial measures	"	1,221
"	605	Stormwater channel, 0.44 km east of MR217	Culvert	"	5,095
Nundle	106	7.77 km to 9.6 km south of Nundle	Reconstruction and bituminous surfacing	"	29,611
"	106	New bridge over Nundle Creek, 2.74 km to 3.14 km west of Nundle	Approaches	"	18,308
Nymboida	74	Blicks River Bridge, 86.1 km south of Grafton	Asphaltic concrete surfacing	Department	2,026*
"	74	Blicks River, 85.5 km to 87 km south of Grafton	Reconstruction and bituminous surfacing of northern approach	Council	23,288
"	74	Bridge over Blaxland Creek, 32 km south-west of Grafton	Approaches	"	421
"	74	Blicks River, 87.0 km to 88.5 km south of Grafton	Reconstruction and bituminous surfacing of southern approach	"	44,169
"	74	Bridge over Koukandowie Creek, 19.0 km south of Grafton	Approaches	"	1,675
"	524	2.8 km to 3.0 km west of SH10	Reconstruction and bituminous surfacing	"	21,969
Oberon	253	11.7 km to 13.67 km south of Oberon	"	"	10,660*
"	255	6.5 km to 8.8 km north of Oberon	Reconstruction	"	6,103
"	255	Kings Stockyard Creek, 2.74 km north of Oberon	Reinforced concrete box culvert	"	2,740
"	256	39.36 km to 41.12 km south of Oberon	Reconstruction and bituminous surfacing	"	60,420
"	256	39.5 km to 42.62 km south of Oberon	"	"	10,693
Orange	526	McKay Crescent to City Boundary	"	"	10,855
Parry	130	Level crossing at Werris Creek	Department's contribution to P.T.C. work	Department	25,313
"	579	4.3 km to 7.3 km west of MR130	Reconstruction and bituminous surfacing	Council	18,308
Patrick Plains	503	Mellong Creek and Kangaroo Waterholes, 91.5 km and 93.2 km south of Singleton	Reinforced concrete box culverts and approaches	Department	421
"	503	21.69 km to 23.56 km south of Singleton	Reconstruction and bituminous surfacing	Council	6,784
Port Stephens	108	55.27 and 56.24 km north of Newcastle	"	"	18,308
"	518	3.51 km south of Meadowie	Deviation	"	23,190
Queanbeyan	51	Bridge over Queanbeyan River at Queanbeyan	Cement rendering of piers	Department	13,670
"	51	Deviation 0 km to 2.5 km east of A.C.T. Boundary	Railway overbridge	"	13,206
"	52	Endurance St to Thurrallilly St, Queanbeyan	Reconstruction and bituminous surfacing	Council	54,294
Quirindi	126	Henry St level crossing at Quirindi	Installation of flashing lights and warning bells	"	2,441
Richmond River	83	85.3 km north of Grafton, Branch Creek	Prestressed concrete plank bridge	"	54,923
Rylstone	215	Gwabegar-Wallerawang railway level crossing, north of Rylstone	Installation of "F" Type flashing lights	"	4,394
Scone	62	Level crossing at Liverpool St	Department's contribution to P.T.C. work	Department	48,680

\*Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Scone	62	Spring Gully, Bunnan, 32.48 km west of Scone	Reinforced concrete box culvert	Council	14,646
"	62	Culvert at Spring Gully, 32.52 km to 33.10 km west of Scone	Approaches	"	12,205
"	105	16.92 km to 16.94 km north of Scone	Batter protection	"	8,544
Severn	136	29.6 km to 38.6 km west of SH9, Deepwater to Emmaville	Reconstruction and bituminous surfacing	"	26,851
"	382	Stoney Creek, 35.4 km north west of Glen Innes	Reinforced concrete box culvert	"	4,391
"	382	29.06 km to 31.94 km north west of Glen Innes	Reconstruction and bituminous surfacing	"	16,704
"	382	Stoney Creek Bridge, 35.4 km north west of Glen Innes	Approaches	"	41,985
Shellharbour	262	SH1 to SH25, Albion Park	Reconstruction and asphaltic concrete surfacing	"	20,067
"	522	Mary St Bridge over unnamed creek	Dual carriageway	"	83,605
"	522	12.1 km to 12.8 km south of Wollongong	Public utility adjustment	"	35,954
"	522	Bridge over unnamed creek, Mary St, Shellharbour	Widening	"	140,358
Shoalhaven	267	0 km to 1.6 km east of SH1	Reconstruction and bituminous surfacing	"	11,123
Singleton	128	15.2 km to 16.77 km east of Singleton	"	"	74,329
"	213	Bridge over Hunter River, 17.99 km east of MR209	Replacement of concrete piers	"	118,389
"	503	36.8 km to 63.8 km north of Windsor	Strengthening of pavement and resheeting with asphaltic concrete	Department	143,647
Snowy River	286	37.3 km to 40 km west of Jindabyne	Reconstruction and bituminous surfacing	"	15,323*
"	286	36.4 km to 36.7 km west of Jindabyne	Strengthening of pavement	"	11,463
Talbragar	206	Plain Creek, 21.2 km east of Dubbo	Steel girder and reinforced concrete bridge	Council	35,794
"	206	13.5 km to 16.5 km east of Dubbo	Strengthening and widening	"	70,789
"	206	Plain Creek, 21.5 km east of Dubbo	Reinforced concrete bridge	"	11,725*
"	572	14.96 km to 17.22 km west of SH7 at Eumungerie	Reconstruction and bituminous surfacing	"	10,478
Tallaganda	51	Shoalhaven River, 13.0 km north of Braidwood	Demolition of old bridge	Department	10,501
"	51	Shoalhaven River, 13.0 km north of Braidwood	7 span steel girder bridge	"	6,073
"	51	3.2 km to 39.0 km east of Queanbeyan	Formation and widening	Council	855
"	51 & 79	Intersection TR51 and TR79, 27.4 km north of Braidwood	Reconstruction	"	1,623*
"	51	27.4 km to 35.8 km east of Braidwood	Strengthening and improvement of drainage	"	27,711
"	51	Warri Bridge over Shoalhaven River, 13.0 km north of Braidwood	Approaches	"	1,191
"	92	50.0 km to 52.4 km north of Braidwood	Reconstruction and bituminous surfacing	"	9,764
"	92	10.0 km to 14.0 km east of Braidwood	"	"	12,205
"	270	5.6 km to 8.2 km, inc. box culvert, 6.89 km south of Braidwood	"	"	1,191*
"	271	Bridge over Flood Creek, 1.5 km to 1.6 km south of Braidwood	Approaches	"	9,764
"	271	Flood Creek, Braidwood	Prestressed concrete box culvert	"	61,025
Tamarang	72	Quipolly Creek, 14.6 km north of Quirindi	Prestressed concrete bridge	"	36,424
"	72	Bridge over Quipolly Creek, 14.6 km north of Quirindi	Approaches	"	204,464*
"	72	12.52 km to 12.82 km south of Quirindi	Reconstruction and bituminous surfacing	"	3,873*
"	72	Railway overpass at Braefield, 7 km south of Quirindi	Approaches	"	30,577*
"	72	12.1 km south of Quirindi	Railway overbridge	Department	8,984
"	129	47.3 km to 49.16 km west of Quirindi	Reconstruction and bituminous surfacing	Council	78,527
Temora	57	0.3 km south to 0.6 km north of Temora	"	"	3,883
Tenterfield	362	0 km to 6.5 km south of Urbenville	"	"	48,820

\*Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
 Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Timbreebongie	89	Backwater Cowal Bridge, 4.14 km south of Narromine	Approaches	Council	790
"	347	22.4 km to 30.4 km south of Trangie	Reconstruction and bituminous surfacing	"	16,019
Tomki	83	93.74 km to 95.3 km north of Grafton	"	"	5,858
Tumbarumba	85	17.7 km to 20.7 km south of Tumbarumba	"	"	28,385
"	85	0.1 km to 0.6 km west of Tumbarumba	"	"	18,308
"	281	Patons Creek, 3.0 km south of MR282	Prestressed concrete bridge	"	16,283
"	282	31.9 km to 33.8 km south of Tumbarumba	Reconstruction and bituminous surfacing	"	4,041
"	282	37.0 km to 42.0 km south of Tumbarumba	Reconstruction and bituminous surfacing	"	69,255
"	282	28.40 km to 29.80 km south of Tumbarumba	"	"	15,825
Tumut	85	18.99 km to 23.17 km south of SH4	"	"	4,882
Uralla	124	9.88 km to 11.75 km west of Armidale	"	"	44,548
"	132	1.29 km to 2.29 km west of Bundarra	"	"	2,029*
Wade	80	9.92 km to 12.14 km east of Griffith	"	"	732*
"	80	3.7 km to 4.1 km east of Griffith	Channelisation of intersection	"	11,360
"	321	12.55 km to 13.38 km south of Griffith	Reconstruction and bituminous surfacing	"	32,629
Wagga Wagga	78	0.58 km to 2.25 km south of SH14	"	"	32,673
Wakool	319	Barber Creek, 8.05 km north of Barham	Prestressed concrete bridge	"	158,666
"	319	Heifer and Calf Creek between 8.8 km and 9.5 km north of Barham	New bridges	"	4,309
"	386	21.48 km to 29.5 km west of MR319	Reconstruction and bituminous surfacing	"	10,201
"	386	33.0 km to 35.14 km west of Moulamein	Reconstruction and bituminous surfacing	"	12,205
Walgett	68	Moonie River at Gundabloui, 50.0 km north of Collarenebri	Prestressed concrete bridge	Department	6,571
Warren	347	6.43 km to 9.86 km south of Collie	Reconstruction and bituminous surfacing	Council	26,146
Waugoola	78	3.1 km to 4.45 km south of Cowra	"	"	47,380
"	237	35.5 km to 37.5 km north of Grenfell	"	"	918*
"	576	19.84 km to 25.6 km east of Cowra	"	"	19,497
Weddin	398	44.25 km to 46.45 km west of Grenfell	"	"	73,108
Wellington	573	57.8 km to 59.7 km from Orange towards Wellington	"	"	64,687
"	573	Stoney Creek, 57.32 km north of Orange	Prestressed concrete bridge	"	5,228
"	573	55.35 km to 56.80 km north of Orange	Reconstruction and bituminous surfacing	"	47,799
Windouran	319	16.42 km to 20.05 km north of Moulamein	"	"	18,294
"	319	22.3 km to 28.3 km north of Moulamein	"	"	24,410
Windsor	503	Howes Creek, 11.0 km north of Windsor	Demolition of bridge	Department	9,685
Wingham	192	Intersection with MR112	Improvement	Council	3,662
Wingecarribee	260	Wingecarribee River at Bong Bong, 11.27 km south of SH2	Approaches to bridge	"	48,291
"	263	Wildes Meadow to Fitzroy Falls	Reconstruction and bituminous surfacing	"	61,025
Wollondilly	95	Culvert at Allens Creek, 0.2 km to 1.7 km east of Wilton	Approaches	"	118,502
"	259	6.49 km to 23.7 km west of SH2	Reconstruction and bituminous surfacing	Department	20,798
Wollongong	95	MR513 to F6 at Gwynneville	Reconstruction and provision of dual carriageway	"	3,185,366
"	95	0 km to 14.5 km west of MR513	Reconstruction and strengthening of pavement	"	444,423
"	95	Between Binda St and Robson Rd	Provision of connecting road	Council	29,292
"	295	Five Islands Rd and Flinders St, Port Kembla	Improvement of intersection	"	6,647
"	295	Bridge over Allens Creek, Wollongong	Construction	"	90,317
"	295	Railway overbridge, Flinders St, Port Kembla	Approaches	"	144,300*
"	513	Bellambi Creek to TR95 near Brokers Nose	Addition of fourth lane	Department	141,100
"	522	Lake Illawarra at Windang	Duplication of bridge	"	18,026

\*Credit

**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Wollongong	522	Primbee deviation to Wattle Ave, Windang	Reconstruction of northbound carriageway	Council	17,657
"	522	Boronia Ave to Cedar St, Windang	Reconstruction and widening	"	30,359
"	522	Bridge over entrance to Lake Illawarra, Windang	Northern approaches	"	32,221
"	522	Northcliffe Dr to Shellharbour Rd, Primbee	Dual carriageway	"	17,087
"	522	Windang Rd from Primbee deviation to Cedar St, Windang	Reconstruction and widening	"	27,654
"	522	Boronia Ave to Primbee deviation	Public utility adjustment	"	423
"	568	Lysaghts Works	Provision of traffic islands and traffic lights	"	26,437
"	568 & 541	Intersection of Keira St and Springhill Rd, Coniston	Drainage works associated with reconstruction	"	2,111
"	602	MR568 to F6, Fig Tree	Dual carriageway	"	62,246
"	602	South Coast Railway, MR558 to F6	Railway overbridge	"	762,816
"	613	King St and Northcliffe Dr, Warrawong	Improvement of intersection	"	6,271
"	613	Denise St and Lake Heights Rd, Wollongong	Reconstruction	"	159,926
"	613	F6 to SH1, Berkeley	Dual carriageway	Department	22,418
Woodburn	145	0.82 km to 1.27 km west of SH10	Reconstruction and bituminous surfacing	Council	27,503
Wyong	335	Bridge over Tuggerah Lakes at The Entrance	Approaches	"	1,978*
"	509	Ray St to Pacific St, Toukley	Reconstruction and widening	"	1,450
Yallaroi	63	Bridge over Oakley Creek, 15 km south of Yetman	Approaches	"	12,120
"	63	16.26 km to 19.07 km south of Warialda	Widening and strengthening of pavement	"	9,816
"	63	45.6 km to 49.25 km north of Warialda	Reconstruction and bituminous surfacing	"	26,851
"	63	Oakey Creek, 15.0 km south of Warialda	Prestressed concrete bridge	"	5,370
Yarrowlumla	52	12.2 km to 25.2 km north of Queanbeyan	Widening of formation and pavement, inc. improvement of drainage	"	12,205
"	268	Deep Creek flood channel, 33.8 km east of Queanbeyan	2 span prestressed concrete plank bridge	"	158,666
"	268	32.0 km to 36.0 km north of Queanbeyan	Reconstruction and bituminous surfacing	"	54,923
"	268	Deep Creek, 33.3 km east of Queanbeyan	Prestressed concrete bridge	"	231,896
Young	241	Clark St to Thornhill St, Young	Reconstruction	"	22,828
<b>Total Trunk and Ordinary Main Roads</b>					<b>16,276,313</b>

**(iv) TOURIST ROADS**

Ballina	4051	0 km to 1.4 km north of Ballina	Reconstruction and bituminous surfacing	Council	61,025
Ullmarra	4049	Wooli Rd towards Minnie Water (3.60 km to 4.19 km)	"	"	17,087
<b>Total Tourist Roads</b>					<b>78,112</b>

**(v) ROADS OTHER THAN MAIN ROADS**

Gosford		Booker Bay Rd, Booker Bay	Prestressed concrete bridge	Council	1,880
Wollongong		Byarong Creek at The Avenue, Mount St Thomas	Reinforced concrete box culvert	"	20,462
<b>Total Roads other than Main Roads</b>					<b>22,342</b>

\*Credit



**APPENDIX No. 7 — continued**  
**COUNTRY MAIN ROADS FUND — GENERAL PURPOSES**  
Summary of Payments from Department's Funds for Construction and Reconstruction Works

<b>SUMMARY</b>	<b>Works Expenditure \$</b>	<b>Property Acquisitions \$</b>	<b>Total \$</b>
Freeways.....	4,331,844	322,586	4,654,430
State Highways .....	22,995,944	1,391,626	24,387,570
Trunk and Ordinary Main Roads.....	16,276,313	493,752	16,770,065
Tourist Roads.....	78,112	—	78,112
Roads other than Main Roads .....	22,342	3,401*	18,941
	<u>43,704,555</u>	<u>2,204,563</u>	<u>45,909,118</u>
Miscellaneous, minor works, etc.....	164,992	—	164,992
Investigation and preliminary engineering .....	128,679	—	128,679
Purchase of land and buildings for works operations .....	833,141	—	833,141
Adjustments to resumed properties .....	21,357	—	21,358
<b>Total.....</b>	<u><b>44,852,724</b></u>	<u><b>2,204,563</b></u>	<u><b>47,057,287</b></u>

Reconciliation of Summary with amounts shown in Appendix 1(c)

Construction and reconstruction of roads and bridges		
— work by councils.....		11,332,524
— work by Department.....		29,890,415
Property acquisitions.....		2,064,503
Purchase of land and buildings for works operations .....		833,141
Administrative expenses (other than maintenance and minor improvement) .....		2,936,704
<b>Total .....</b>		<u><b>47,057,287</b></u>

\* Credit

**APPENDIX No. 7A**  
**COUNTRY MAIN ROADS FUND — SPECIAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) STATE HIGHWAYS</b>					<b>\$</b>
<b>Princes Highway</b>					
Bega	1	2.7 km to 9.0 km south of Bega	Reconstruction	Department	240,000
Kiama	1	42.3 km to 46.3 km south of Wollongong	Improvement to alignment	"	393,143
Shellharbour	1	53.6 km to 54.3 km south of Wollongong	Reconstruction and improvement of drainage	"	310,999
					<u>944,142</u>
<b>Snowy Mountains Highway</b>					
Tumut	4	173.3 km to 181.3 km north of Cooma	Reconstruction	Department	170,000
					<u>170,000</u>
<b>Great Western Highway</b>					
Lithgow	5	Marrangaroo Creek Bridge approach, 2.3 km to 6.1 km west of Lithgow	Dual carriageways	Department	340,000
					<u>340,000</u>
<b>Mid Western Highway</b>					
Blayney	6	28.3 km to 33.8 km west of Bathurst	Widening and strengthening of pavement	Department	200,000
					<u>200,000</u>
<b>Mitchell Highway</b>					
Bourke	7	28.2 km to 30.6 km north of Bourke	Reconstruction and widening	Department	240,000
					<u>240,000</u>
<b>Barrier Highway</b>					
Cobar	8	81.4 km to 108.5 km and 130.0 km to 130.4 km west of Nyngan	Reconstruction, widening and bituminous surfacing	Department	120,000
					<u>120,000</u>
<b>Pacific Highway</b>					
Lake Macquarie	10	143.2 km to 144.1 km from Sydney (Dockers St to Swansea Bridge)	Extension of dual carriageways	Department	159,957
Manning	10	23.0 km to 24.8 km north of Taree	Construction and bituminous surfacing	"	150,000
"	10	24.8 km to 28.8 km south of Taree	Reconstruction of damaged pavement	"	224,000
Nambucca	10	33.4 km to 37.9 km from Kempsey to Coffs Harbour	Reconstruction of damaged pavements	"	60,000
Newcastle	10	Hugh St to Scenic Dr, Merewether	Widening for southern overtaking lane	Council	400,000
Tweed	10	Condong Village	Strengthening and bituminous surfacing	Department	96,661
Ulmarra	10	40.4 km to 43.6 km north of Coffs Harbour	Reconstruction and bituminous surfacing	"	200,000
Wyong	10	10.5 km to 11.3 km north of Gosford at Ourimbah	Reconstruction	"	100,000
					<u>1,390,618</u>
<b>Oxley Highway</b>					
Liverpool Plains	11	Carroll, 54.5 km west of Tamworth	Concrete causeway	Council	65,000
Walcha	11	112.8 km to 154.9 km west of Walcha	Reconstruction of damaged pavement	Department	199,965
					<u>264,965</u>
<b>Gwydir Highway</b>					
Severn	12	5.67 km to 11.15 km east of Glen Innes	Widening and strengthening	Department	100,000
Yallaro	12	37.4 km to 41.4 km west of Warialda	"	Council	150,000
					<u>250,000</u>
<b>Sturt Highway</b>					
Hay	14	0.2 km to 80.9 km west of Hay	Widening of pavement shoulders and formation	Department	220,000
Wentworth	14	32.5 km to 41.8 km west of Euston	Reconstruction and bituminous surfacing	"	260,000
					<u>480,000</u>

**APPENDIX No. 7A — continued**  
**COUNTRY MAIN ROADS FUND — SPECIAL PURPOSES**

Summary of Payments from Department's Funds for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) STATE HIGHWAYS — continued</b>					\$
<b>Bruxner Highway</b>					
Boolooroo	16	115.9 km to 124.8 km north of Moree	Construction of final seal	Department	36,000
					<u>36,000</u>
<b>Newell Highway</b>					
Boolooroo	17	4.0 km to 46.0 km north of Moree	Construction of final seal on pavement widening	Department	40,000
					<u>40,000</u>
<b>Total State Highways</b>					<u><u>4,475,725</u></u>
<b>(II) TRUNK AND ORDINARY MAIN ROADS</b>					
Bibbenluka	91	25.6 km to 27.18 km east of Bombala	Reconstruction and bituminous surfacing	Council	140,000
Cobar	421	14.7 km to 19.4 km north of Cobar	"	"	11,475
"	421	9.7 km to 14.7 km north of Cobar	Reconstruction	"	17,004
Dumaresq	74	76.1 km to 78.0 km from Armidale	Reconstruction and bituminous surfacing	"	40,000
Eurobodalla	51	20.3 km to 21.4 km west of Batemans Bay	Eastern and western slow vehicle lanes	"	90,000
Gosford	504	MR336 to Kincumber	Reconstruction and widening	"	160,000
Greater Cessnock	220	22.65 km to 32.25 km north of Toronto	Widening and reconstruction of damaged pavement	"	400,000
Imlay	91	33.1 km to 39.5 km west of Pambula	Reconstruction and bituminous surfacing	"	220,000
Kyogle	83	4.3 km to 7.2 km north of Kyogle	"	"	50,000
"	83	35.5 km to 38.75 km north of Kyogle	"	"	250,000
Lake Macquarie	217	2.35 km to 20.27 km south of Toronto	Reconstruction and strengthening of pavement	"	400,000
Leeton	80	7.4 km to 11.5 km east of Leeton	Reconstruction and bituminous sealing	"	60,000
Lismore	65	0.55 km to 1.08 km north of junction with SH16	Reconstruction and bituminous surfacing	"	60,000
Liverpool Plains	72	29.77 km south of Gunnedah	Concrete causeway at watermark	"	65,000
Queanbeyan	52	Endurance Ave to Thuralilly St, Queanbeyan	Reconstruction	"	310,000
Rylstone	55	Ilford to Blaxland Shire Boundary	Reconstruction, improvement of drainage of damaged areas	"	111,358
Shellharbour	522	Extension of MR522 and widening of Mary St Bridge, Shellharbour	Construction and widening	"	250,000
Tumut	85	31.0 km to 31.9 km south of Tumut	Reconstruction and bituminous surfacing	"	100,000
Wollongong	186	Allan St to Spring St, Keiraville	Reconstruction	"	81,968
"	295	Port Kembla North Railway Station	Railway overpass and approaches	"	3,270*
"	568	Masters Rd to Allans Creek	Southbound carriageway	"	250,000
<b>Total Trunk and Ordinary Main Roads</b>					<u><u>3,063,535</u></u>
<b>(III) ROADS OTHER THAN MAIN ROADS</b>					
Tumbarumba		Alpine Way, 39.8 km to 41.56 km west of Jindabyne	Reconstruction and gravel surfacing	Department	69,094*
"		40.9 km to 43.26 km west of Jindabyne	"	"	6,031*
<b>Total Roads other than Main Roads</b>					<u><u>75,125*</u></u>
<b>SUMMARY</b>					
			<b>Works Expenditure</b>	<b>Property Acquisitions</b>	<b>Total</b>
			\$	\$	\$
State Highways .....			4,475,725	—	4,475,725
Trunk and Ordinary Main Roads .....			3,063,535	—	3,063,535
Roads other than Main Roads .....			<u>75,125*</u>	—	<u>75,125*</u>
Total as shown in receipts and payments statement — Appendix No. 1(A)					
		Work by councils .....	3,678,535	—	
		Work by Department .....	<u>3,785,600</u>	—	
					<u><u>7,464,135</u></u>

\* Credit



**APPENDIX No. 8  
COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the National Roads Act for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
		\$	\$	\$
<b>(A) COUNTY OF CUMBERLAND AREA</b>				
<b>(I) Freeways</b>				
F3 — Sydney to Newcastle Freeway				
	Hornsby .....	794	—	794
F5 — South Western Freeway				
	Campbelltown .....	154,533	—	154,533
	Mittagong .....	86,569	—	86,569
	<b>Total Freeways .....</b>	<b>241,896</b>	<b>—</b>	<b>241,896</b>
<b>(II) State Highways</b>				
SH2 — Hume Highway				
	Camden .....	55,151	—	55,151
	Liverpool .....	36,263	—	36,263
		91,414	—	91,414
SH10 — Pacific Highway				
	Hornsby .....	18,108	—	18,108
	<b>Total State Highways .....</b>	<b>109,520</b>	<b>—</b>	<b>109,520</b>
<b>(III) Ordinary Main Roads</b>				
MR178	Camden .....	183	—	183
	<b>Total Ordinary Main Roads .....</b>	<b>183</b>	<b>—</b>	<b>183</b>
<b>(B) COUNTRY URBAN AREA</b>				
<b>(I) State Highways</b>				
SH2 — Hume Highway				
	Camden .....	99,012	—	99,012
SH9 — New England Highway				
	Greater Cessnock .....	38,650	—	38,650
	Maitland .....	130,331	9,000	139,331
	Newcastle .....	34,913	—	34,913
		203,894	9,000	212,894
SH10 — Pacific Highway				
	Lake Macquarie .....	82,981	—	82,981
	<b>Total State Highways .....</b>	<b>385,887</b>	<b>9,000</b>	<b>394,887</b>
<b>(C) COUNTRY RURAL AREA</b>				
<b>(I) Freeways</b>				
F3 — Sydney to Newcastle Freeway				
	Gosford .....	255,807	—	255,807
	<b>Total Freeways .....</b>	<b>255,807</b>	<b>—</b>	<b>255,807</b>
<b>(II) State Highways</b>				
SH2 — Hume Highway				
	Albury .....	85,513	—	85,513
	Goodradigbee .....	200,658	—	200,658
	Goulburn .....	19,481	18,300	37,781
	Gundagai .....	719,435	—	719,435
	Gunning .....	176,785	—	176,785
	Harden .....	138,632	—	138,632
	Holbrook .....	147,133	—	147,133
	Hume .....	105,252	—	105,252
	Kyeamba .....	186,031	—	186,031
	Mittagong .....	232,925	—	232,925
	Mulwaree .....	192,053	—	192,053
	Wingecaribee .....	183,165	—	183,165
	Wollondilly .....	568,697	—	568,697
	Yass .....	25,500	—	25,500
		2,981,260	18,300	2,999,560

**APPENDIX No. 8 — continued**  
**COMMONWEALTH AID ROADS FUND**

Summary of Payments from Grants under the National Roads Act for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Department	Work carried out by Council	Total
(C) COUNTRY RURAL AREA — continued		\$	\$	\$
(II) State Highways — continued				
SH3 — Federal Highway				
	Gunning .....	120,344	—	120,344
	Mulwaree .....	67,345	—	67,345
	Yarrowlumla.....	62,231	—	62,231
		<u>249,920</u>	<u>—</u>	<u>249,920</u>
SH9 — New England Highway				
	Armidale.....	—	22,383	22,383
	Denman .....	104,901	—	104,901
	Dumaresq .....	87,882	—	87,882
	Glen Innes.....	—	941	941
	Guyra.....	124,598	—	124,598
	Murrurundi .....	99,079	—	99,079
	Muswellbrook.....	17,987	3,158	21,145
	Nundle .....	36,619	—	36,619
	Parry .....	217,219	—	217,219
	Scone.....	260,259	—	260,259
	Severn .....	202,069	—	202,069
	Singleton.....	206,298	5,753	212,051
	Tamarang .....	83,685	—	83,685
	Tamworth.....	21,971	9,119	31,090
	Tenterfield.....	193,929	10,398	204,327
	Uralla .....	104,712	—	104,712
		<u>1,761,208</u>	<u>51,752</u>	<u>1,812,960</u>
SH10 — Pacific Highway				
	Gosford.....	372	—	372
	Wyong.....	375,249	—	375,249
		<u>375,621</u>	<u>—</u>	<u>375,621</u>
SH15 — Barton Highway				
	Goodradigbee .....	53,470	—	53,470
	Yarrowlumla.....	11,405	—	11,405
		<u>64,875</u>	<u>—</u>	<u>64,875</u>
SH26				
	Gosford.....	238,113	—	238,113
	Total State Highways .....	<u>5,670,997</u>	<u>70,052</u>	<u>5,741,049</u>
SUMMARY		Department	Council	Total
		\$	\$	\$
	Freeways.....	735,816	—	735,816
	State Highways .....	5,928,291	79,052	6,007,343
	Ordinary Main Roads.....	183	—	183
	Engineering administration, allowances to councils, etc. ....	200,977	3,851	204,828
	Sub-total.....	6,865,267	82,903	6,948,170
	General administration .....	277,946	—	277,946
	Total.....	<u>7,143,213</u>	<u>82,903</u>	<u>7,226,116</u>

**APPENDIX No. 9  
COUNTY OF CUMBERLAND MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
		\$	\$	\$
<b>(I) FREEWAYS</b>				
<b>F3 — North Western Freeway</b>				
	Drummoyne .....	43,379	—	43,379
	Hunters Hill .....	134,620	—	134,620
		<u>177,999</u>	<u>—</u>	<u>177,999</u>
<b>F4 — Western Freeway</b>				
	Auburn .....	378	—	378
	Blacktown .....	183,710	—	183,710
	Penrith .....	188,211	—	188,211
	Sydney City Council .....	48,510	—	48,510
		<u>420,809</u>	<u>—</u>	<u>420,809</u>
<b>F5 — South Western Freeway</b>				
	Liverpool .....	1,380	—	1,380
		<u>1,380</u>	<u>—</u>	<u>1,380</u>
<b>F6 — Southern Freeway</b>				
	Rockdale .....	29,648	—	29,648
	Sutherland .....	29,647	—	29,647
		<u>59,295</u>	<u>—</u>	<u>59,295</u>
	<b>Total Freeways .....</b>	<u><b>659,483</b></u>	<u><b>—</b></u>	<u><b>659,483</b></u>
<b>(II) STATE HIGHWAYS</b>				
<b>SH1 — Princes Highway</b>				
	Kogarah .....	106,537	—	106,537
	Marrickville .....	35,590	—	35,590
	Rockdale .....	42,658	1,655	44,313
	South Sydney .....	—	8,509	8,509
	Sutherland .....	278,802	—	278,802
	Sydney .....	—	2,820	2,820
	Wollongong .....	172,096	—	172,096
		<u>635,683</u>	<u>12,984</u>	<u>648,667</u>
<b>SH2 — Hume Highway</b>				
	Ashfield .....	23,318	—	23,318
	Bankstown .....	75,438	—	75,438
	Burwood .....	17,167	—	17,167
	Camden .....	33,790	—	33,790
	Fairfield .....	36,303	—	36,303
	Liverpool .....	151,137	—	151,137
	Strathfield .....	47,687	—	47,687
		<u>384,840</u>	<u>—</u>	<u>384,840</u>
<b>SH5 — Great Western Highway</b>				
	Ashfield .....	99,270	—	99,270
	Auburn .....	119,511	—	119,511
	Blacktown .....	114,957	—	114,957
	Blue Mountains .....	599,824	—	599,824
	Burwood .....	25,364	—	25,364
	Concord .....	25,364	—	25,364
	Holroyd .....	180,394	—	180,394
	Leichhardt .....	74,452	—	74,452
	Parramatta .....	80,156	—	80,156
	Penrith .....	138,456	—	138,456
	Strathfield .....	60,899	—	60,899
	Sydney .....	—	4,825	4,825
		<u>1,518,647</u>	<u>4,825</u>	<u>1,523,472</u>



**APPENDIX No. 9 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Summary of Expenditure by Department				
Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
(II) STATE HIGHWAYS — continued		\$	\$	\$
SH10 — Pacific Highway				
	Hornsby .....	245,443	—	245,443
	Ku-ring-gai .....	116,325	—	116,325
	Lane Cove .....	21,150	—	21,150
	North Sydney .....	24,323	—	24,323
	Willoughby .....	39,127	—	39,127
		<u>446,368</u>	<u>—</u>	<u>446,368</u>
SH13				
	Bankstown .....	30,739	—	30,739
	Baulkham Hills .....	28,797	—	28,797
	Fairfield .....	11,696	—	11,696
	Holroyd .....	146	—	146
	Hornsby .....	38,404	—	38,404
	Parramatta .....	87,896	—	87,896
		<u>197,678</u>	<u>—</u>	<u>197,678</u>
	Total State Highways .....	<u>3,183,216</u>	<u>17,809</u>	<u>3,201,025</u>

City, Municipal or or Shire Area	Work carried out by		Total
	Department	Council	
(III) ORDINARY MAIN ROADS			
Ashfield .....	—	8,627	\$ 8,627
Auburn.....	95,138	3,200	98,338
Bankstown.....	503,065	—	503,065
Baulkham Hills.....	191,093	121,564	312,657
Blacktown.....	322,825	—	322,825
Blue Mountains.....	317,197	46,252	363,449
Botany .....	262,214	—	262,214
Burwood .....	2,688	2,500	5,188
Camden.....	227,959	104,369	332,328
Campbelltown .....	—	55,950	55,950
Canterbury .....	291,146	—	291,146
Colo.....	375,043	279,082	654,125
Concord.....	—	32,840	32,840
Drummoyne.....	116,453	4,697	121,150
Fairfield .....	278,378	1,120	279,496
Hornsby .....	56,550	27,195	83,745
Hunters Hill.....	98,421	—	98,421
Hurstville .....	—	7,450	7,450
Kogarah .....	4,928	100,499	105,427
Ku-ring-gai.....	164,778	17,871	182,649
Lane Cove .....	70,761	—	70,761
Leichhardt .....	176,677	1,040	177,717
Liverpool.....	360,772	40,481	401,158
Manly.....	101,407	17,850	119,257
Marrickville .....	10,961	36,804	47,765
Mosman .....	107,632	15,500	123,132
North Sydney.....	34,044	13,280	47,324
Parramatta .....	320,670	—	320,670
Penrith.....	328,342	68,620	396,962
Randwick.....	158,948	14,359	173,307
Rockdale .....	186,646	74,805	261,451
Ryde.....	14,517	9,183	23,700
South Sydney .....	408,194	24,645	432,839
Strathfield .....	2,717	11,269	13,986
Sutherland.....	386,401	68,390	454,791
Sydney .....	542,899	47,371	590,270
Warringah.....	657,932	142,581	800,513
Waverley .....	—	20,620	20,620
Willoughby.....	89,741	26,885	116,626
Windsor .....	308,544	—	308,544
Wollondilly.....	—	147,625	147,625
Wollongong .....	363,544	—	363,544
Woollahra .....	21,732	37,254	58,986
Total Ordinary Main Roads .....	7,960,955	1,631,778	9,592,733

**APPENDIX No. 9 — continued**  
**COUNTY OF CUMBERLAND MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

City, Municipal or or Shire Area	Work carried out by		Total
	Department	Council	
<b>(iv) SECONDARY ROADS</b>	\$	\$	\$
Ashfield .....	—	40,285	40,285
Auburn .....	—	3,360	3,360
Bankstown .....	—	37,878	37,878
Baulkham Hills .....	—	9,300	9,300
Blacktown .....	—	36,387	36,387
Blue Mountains .....	—	18,382	18,382
Botany .....	—	4,000	4,000
Burwood .....	—	500	500
Canterbury .....	—	39,990	39,990
Concord .....	—	5,461	5,461
Drummoyne .....	—	7,703	7,703
Fairfield .....	—	75,488	75,488
Holroyd .....	—	17,237	17,237
Hornsby .....	—	2,564	2,564
Hunters Hill .....	3,767	20,871	24,638
Hurstville .....	—	4,900	4,900
Lane Cove .....	—	5,000	5,000
Leichhardt .....	—	20,860	20,860
Liverpool .....	—	119	119
Manly .....	—	4,150	4,150
Marrickville .....	25,452	3,773	29,225
Mosman .....	—	1,700	1,700
North Sydney .....	—	10,930	10,930
Parramatta .....	—	5,135	5,135
Penrith .....	—	18,523	18,523
Randwick .....	—	16,785	16,785
Rockdale .....	—	17,621	17,621
Ryde .....	—	27,073	27,073
South Sydney .....	—	21,560	21,560
Strathfield .....	—	10,503	10,503
Sutherland .....	4,078	47,001	51,079
Willoughby .....	3,330	21,907	25,237
Windsor .....	—	4,600	4,600
Woollahra .....	—	2,986	2,986
<b>Total Secondary Roads .....</b>	<b>36,627</b>	<b>562,532</b>	<b>599,159</b>
<b>(v) TOURIST ROADS</b>			
Baulkham Hills .....	—	13,400	13,400
Blue Mountains .....	—	10,398	10,398
Sutherland .....	11,735	2,200	13,935
Warringah .....	9,690	—	9,690
<b>Total Tourist Roads .....</b>	<b>21,425</b>	<b>25,998</b>	<b>47,423</b>
<b>SUMMARY</b>			
Freeways .....	659,483	—	659,483
State Highways .....	3,183,216	17,809	3,201,025
Ordinary Main Roads .....	7,960,955	1,631,778	9,592,733
Secondary Roads .....	36,627	562,532	599,159
Tourist Roads .....	21,425	25,998	47,423
Allowances to councils, miscellaneous, etc. ....	3,727,906	16,794	3,744,700
Engineering administration .....	66,843	9,873	76,716
<b>Total as shown in receipts and payments statements — Appendix No. 1(B)(i) .</b>	<b>15,656,455</b>	<b>2,264,784</b>	<b>17,921,239</b>

# **APPENDIX No. 10** **COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
(I) FREEWAYS		\$	\$	\$
F6 — Southern Freeway				
	Wollongong.....	355,120	—	355,120
F8 — Wollongong Freeway				
	Wollongong.....	29,258	—	29,258
	Total Freeways .....	384,378	—	384,378
(II) STATE HIGHWAYS				
SH1 — Princes Highway				
	Bega .....	19,691	—	19,691
	Eurobadalla.....	492,739	—	492,739
	Imlay .....	434,391	—	434,391
	Kiama.....	178,892	—	178,892
	Mumbulla .....	209,027	—	209,027
	Shellharbour .....	57,766	—	57,766
	Shoalhaven.....	683,430	—	683,430
	Wollongong.....	250,442	15,476	265,918
		2,326,378	15,476	2,341,854
SH4 — Snowy Mountains Highway				
	Bega .....	12,298	—	12,298
	Cooma .....	—	8,061	8,061
	Gundagai .....	22,276	—	22,276
	Imlay .....	85,897	—	85,897
	Monaro.....	99,922	—	99,922
	Mumbulla .....	211,015	—	211,015
	Snowy River.....	282,292	—	282,292
	Tumut.....	457,447	—	457,447
		1,171,147	8,061	1,179,208
SH5 — Great Western Highway				
	Bathurst .....	178,822	—	178,822
	Evans.....	300,576	—	300,576
	Lithgow .....	630,089	—	630,089
		1,109,487	—	1,109,487
SH6 — Mid Western Highway				
	Bathurst .....	57,038	—	57,038
	Bland.....	207,550	—	207,550
	Blayney .....	202,801	—	202,801
	Carrathool.....	202,739	—	202,739
	Cowra .....	—	7,854	7,854
	Evans.....	50,061	—	50,061
	Hay .....	91,086	1,220	92,306
	Waugoola.....	24,892	79,105	103,997
	Weddin.....	—	72,126	72,126
		836,167	160,305	996,472
SH7 — Mitchell Highway				
	Bathurst .....	13,480	—	13,480
	Bogan .....	148,361	1,401	149,762
	Bourke .....	256,794	—	256,794
	Cabonne .....	133,831	—	133,831
	Dubbo .....	20,342	—	20,342
	Evans.....	40,059	—	40,059
	Narromine .....	1,340	—	1,340
	Orange.....	289,802	36,270	326,072
	Talbragar .....	138,737	—	138,737
	Timbregongie.....	146,455	—	146,455
	Warren .....	86,757	—	86,757
	Wellington.....	141,817	—	141,817
		1,417,775	37,671	1,455,446



**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
		\$	\$	\$
<b>(II) STATE HIGHWAYS — continued</b>				
<b>SH8 — Barrier Highway</b>				
	Bogan .....	102,523	—	102,523
	Broken Hill .....	—	5,325	5,325
	Cobar .....	329,115	708	329,823
	Central Darling .....	336,194	2,950	339,144
	Murray Darling Division .....	479,732	—	479,732
		<u>1,247,564</u>	<u>8,983</u>	<u>1,256,547</u>
<b>SH10 — Pacific Highway</b>				
	Ballina .....	467,746	9,521	477,267
	Bellingen .....	75,056	—	75,056
	Byron .....	205,082	—	205,082
	Coffs Harbour .....	136,152	12,171	148,323
	Gosford .....	444,363	5,487	449,850
	Grafton .....	93,824	—	93,824
	Great Lakes .....	447,492	—	447,492
	Hastings .....	575,343	—	575,343
	Kempsey .....	333,739	6,280	340,019
	Lake Macquarie .....	290,138	—	290,138
	Maclean .....	362,001	—	362,001
	Manning .....	577,881	—	577,881
	Nambucca .....	509,846	—	509,846
	Newcastle .....	240,943	155,460	396,403
	Port Stephens .....	203,448	—	203,448
	Richmond River .....	337,144	—	337,144
	Taree .....	—	10,628	10,628
	Tweed .....	386,257	1,800	388,057
	Ulmarra .....	743,830	—	743,830
	Wyong .....	58,883	—	58,883
		<u>6,489,168</u>	<u>201,347</u>	<u>6,690,515</u>
<b>SH11 — Oxley Highway</b>				
	Coonabarabran .....	310,424	—	310,424
	Gilgandra .....	221,992	—	221,992
	Gunnedah .....	—	12,135	12,135
	Hastings .....	252,978	—	252,978
	Liverpool Plains .....	—	117,709	117,709
	Parry .....	26,167	56,890	83,057
	Port Macquarie .....	—	2,377	2,377
	Tamworth .....	—	17,479	17,479
	Walcha .....	174,293	—	174,293
	Warren .....	116,529	—	116,529
		<u>1,102,383</u>	<u>206,590</u>	<u>1,308,973</u>
<b>SH12 — Gwydir Highway</b>				
	Boolooloo .....	—	35,293	35,293
	Boomi .....	240,837	—	240,837
	Glen Innes .....	—	15,819	15,819
	Grafton .....	6,245	—	6,245
	Inverell .....	144,377	13,050	157,427
	Macintyre .....	—	85,691	85,691
	Moree .....	—	17,748	17,748
	Nymboida .....	265,107	—	265,107
	Severn .....	171,163	29,861	201,024
	Walgett .....	13,365	23,453	36,818
	Yallaroi .....	256	52,945	53,201
		<u>841,350</u>	<u>273,860</u>	<u>1,115,210</u>
<b>SH14 — Sturt Highway</b>				
	Bairanald .....	235,107	1,321	236,428
	Hay .....	419,427	—	419,427
	Kyeamba .....	97,964	—	97,964
	Mitchell .....	142,160	—	142,160
	Murrumbidgee .....	354,182	—	354,182
	Narrandera .....	217,562	—	217,562
	Wagga Wagga .....	7,620	12,652	20,272
	Wakool .....	158,450	—	158,450
	Wentworth .....	136,049	—	136,049
		<u>1,768,521</u>	<u>13,973</u>	<u>1,782,494</u>

**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
		\$	\$	\$
<b>(II) STATE HIGHWAYS — continued</b>				
<b>SH16 — Bruxner Highway</b>				
	Ashford .....	107,591	38,739	146,330
	Ballina .....	—	57,069	57,069
	Boolooroo .....	18,099	13,191	31,290
	Casino .....	20,688	30,085	50,773
	Kyogle .....	174,635	—	174,635
	Lismore .....	—	83,199	83,199
	Richmond River .....	52,726	9,938	62,664
	Tenterfield .....	243,677	40,915	284,592
	Yallaro .....	—	33,100	33,100
		<u>617,416</u>	<u>306,236</u>	<u>923,652</u>
<b>SH17 — Newell Highway</b>				
	Berrigan .....	62,461	—	62,461
	Bland .....	116,488	—	116,488
	Boolooroo .....	637,940	—	637,940
	Coolamon .....	94,839	—	94,839
	Coonabarabran .....	28,310	—	28,310
	Dubbo .....	4,166	—	4,166
	Forbes .....	2,512	22,837	25,349
	Gilgandra .....	68,995	—	68,995
	Goobang .....	296,211	—	296,211
	Jemalong .....	—	91,949	91,949
	Jerilderie .....	353,345	—	353,345
	Moree .....	—	14,471	14,471
	Namoi .....	377,168	—	377,168
	Narrabri .....	—	85,590	85,590
	Narrandera .....	234,776	—	234,776
	Parkes .....	1,873	—	1,873
	Talbragar .....	234,190	—	234,190
	Timbregongie .....	54,590	—	54,590
	Urana .....	107,654	—	107,654
	Weddin .....	50,664	—	50,664
		<u>2,726,182</u>	<u>214,847</u>	<u>2,941,029</u>
<b>SH18 — Castlereagh Highway</b>				
	Brewarrina .....	8,684	—	8,684
	Coonamble .....	242,037	—	242,037
	Gilgandra .....	95,605	—	95,605
	Walgett .....	619,538	1,395	620,933
		<u>965,864</u>	<u>1,395</u>	<u>967,259</u>
<b>SH19 — Monaro Highway</b>				
	Bombala .....	50,448	92,552	143,000
	Cooma .....	—	6,333	6,333
	Monaro .....	639,354	—	639,354
	Yarrowlumla .....	91,639	—	91,639
		<u>781,441</u>	<u>98,885</u>	<u>880,326</u>
<b>SH20 — Riverina Highway</b>				
	Albury .....	55,555	—	55,555
	Berrigan .....	63,339	—	63,339
	Conargo .....	44,015	—	44,015
	Corowa .....	135,026	—	135,026
	Deniliquin .....	—	8,398	8,398
	Hume .....	124,786	—	124,786
		<u>422,721</u>	<u>8,398</u>	<u>431,119</u>
<b>SH21 — Cobb Highway</b>				
	Carrathool .....	40,822	—	40,822
	Central Darling .....	188,706	21,549	210,255
	Deniliquin .....	—	7,435	7,435
	Hay .....	308,306	509	308,815
	Murray .....	144,324	—	144,324
	Windouran .....	244,051	—	244,051
		<u>926,209</u>	<u>29,493</u>	<u>955,702</u>

**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

Road No.	City, Municipal or Shire Area	Work carried out by		Total
		Department	Council	
(II) STATE HIGHWAYS — continued		\$	\$	\$
SH22 — Silver City Highway				
	Broken Hill.....	—	39,645	39,645
	Murray Darling Division.....	743,226	—	743,226
	Wentworth.....	343,231	1,118	344,349
		<u>1,086,457</u>	<u>40,763</u>	<u>1,127,220</u>
SH23				
	Lake Macquarie .....	—	32,088	32,088
	Newcastle .....	—	45,915	45,915
		—	<u>78,003</u>	<u>78,003</u>
SH24 — Mount Lindsay Highway				
	Tenterfield.....	479,372	1,343	480,715
		<u>479,372</u>	<u>1,343</u>	<u>480,715</u>
SH25 — Illawarra Highway				
	Shellharbour .....	283,420	—	283,420
	Wingecarribee.....	433,314	—	433,314
		<u>716,734</u>	—	<u>716,734</u>
SH26				
	Gosford.....	737	—	737
	Total State Highways .....	<u>27,033,073</u>	<u>1,705,629</u>	<u>28,738,702</u>
(III) TRUNK AND ORDINARY MAIN ROADS				
Abercrombie.....		—	1,774	1,774
Albury.....		—	12,270	12,270
Armidale.....		—	7,132	7,132
Ashford.....		1,192	170,125	171,317
Bailina.....		—	89,158	89,158
Balranald.....		50,195	116,471	166,666
Barraba.....		—	97,902	97,902
Bathurst .....		—	24,961	24,961
Bega.....		—	20,052	20,052
Bellingen .....		—	261,026	261,026
Berrigan.....		23,288	164,193	187,481
Bingara.....		1,701	32,400	34,101
Bland.....		—	97,368	97,368
Blayney .....		—	54,560	54,560
Blue Mountains.....		—	5,000	5,000
Bogan.....		—	160,761	160,761
Bombala.....		—	94,015	94,015
Boolooloo.....		—	136,771	136,771
Boomi.....		8,620	153,554	162,174
Boorowa.....		1,899	158,363	160,262
Bourke.....		20,741	574,254	594,995
Bowral .....		—	33,040	33,040
Brewarrina.....		136,180	296,124	432,304
Broken Hill.....		—	44,217	44,217
Burrangong .....		—	156,802	156,802
Byron.....		—	92,908	92,908
Cabonne.....		—	297,025	297,025
Camden.....		—	19,514	19,514
Carrathool .....		8,896	201,833	210,729
Casino.....		—	60,425	60,425
Central Darling .....		7,644	237,675	245,319
Cobar .....		—	281,908	281,908
Coffs Harbour.....		—	147,065	147,065
Colo.....		550,978	203,113	754,091
Conargo .....		—	65,339	65,339
Coolah.....		—	146,500	146,500
Coolamon.....		—	76,850	76,850
Coonabarabran .....		—	143,443	143,443
Coonamble.....		—	233,971	233,971
Cootamundra .....		—	137,299	137,299



**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Works carried out by		Total
	Department	Council	
(III) TRUNK AND ORDINARY MAIN ROADS — continued	\$	\$	\$
Copmanhurst.....	6,858	189,814	196,672
Corowa.....	47,088	59,175	106,263
Cowra.....	—	6,917	6,917
Crookwell.....	—	264,998	264,998
Culcairn.....	—	104,955	104,955
Deniliquin.....	—	10,326	10,326
Denman.....	16,335	112,201	128,536
Dubbo.....	—	8,316	8,316
Dumaresq.....	—	160,510	160,510
Dungog.....	5,283	135,689	140,972
Eurobodalla.....	—	139,178	139,178
Evans.....	18,628	167,082	185,710
Forbes.....	895	13,755	14,650
Gilgandra.....	107	45,643	45,750
Glen Innes.....	—	2,871	2,871
Gloucester.....	—	11,643	11,643
Goobang.....	—	218,780	218,780
Goodradigbee.....	31,133	151,190	182,323
Gosford.....	5,608	528,516	534,124
Goulburn.....	18,094	10,280	28,374
Grafton.....	19,331	37,709	57,040
Great Lakes.....	10,150	279,334	289,484
Greater Cessnock.....	199	485,629	485,828
Gundagai.....	—	83,125	83,125
Gunnedah.....	—	7,024	7,024
Gunning.....	8,653	137,717	146,370
Guyra.....	—	43,330	43,330
Harden.....	—	140,370	140,370
Hastings.....	—	92,591	92,591
Hay.....	—	119,998	119,998
Holbrook.....	—	81,666	81,666
Hume.....	74,125	112,812	186,937
Illabo.....	—	116,264	116,264
Imlay.....	—	179,953	179,953
Inverell.....	—	13,169	13,169
Jeralong.....	—	154,453	154,453
Jerilderie.....	—	137,208	137,208
Junee.....	—	20,137	20,137
Kempsey.....	227,676	174,825	402,501
Kiama.....	—	115,344	115,344
Kyeamba.....	—	57,731	57,731
Kyogle.....	10,947	329,370	340,317
Lachlan.....	83,557	308,795	392,352
Lake Macquarie.....	2,610	351,506	354,116
Leeton.....	—	67,000	67,000
Lismore.....	—	305,103	305,103
Lithgow.....	360,608	73,295	433,903
Liverpool Plains.....	—	115,264	115,264
Lockhart.....	—	58,947	58,947
Macintyre.....	1,112	136,714	137,826
Maclean.....	72,626	137,753	210,379
Maitland.....	41,249	172,294	213,543
Manilla.....	—	92,435	92,435
Manning.....	25,634	201,827	227,461
Merrima.....	—	206,936	206,936
Mitchell.....	—	110,801	110,801
Mittagong.....	—	117,355	117,355
Monaro.....	—	11,404	11,404
Moree.....	—	2,973	2,973
Mudgee.....	40,992	107,806	148,798
Mullumbimby.....	—	2,656	2,656
Muiwaree.....	5,998	158,183	164,181
Mumbulla.....	—	96,815	96,815
Murray.....	—	161,265	161,265
Murray Darling Division.....	489,952	—	489,952
Murrumbidgee.....	—	70,095	70,095
Murrumbidgee.....	—	5,555	5,555

**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Works carried out by		Total
	Department	Council	
(iii) TRUNK AND ORDINARY MAIN ROADS — continued	\$	\$	\$
Muswellbrook .....	31,529	73	31,602
Nambucca .....	—	64,368	64,368
Namoi .....	888	485,656	486,544
Narrabri .....	—	12,771	12,771
Narraburra .....	—	132,110	132,110
Narrandera .....	—	66,506	66,506
Narromine .....	—	6,528	6,528
Newcastle .....	2,633	203,303	205,936
Nundle .....	—	23,920	23,920
Nymboida .....	51,342	123,591	174,933
Oberon .....	99,726	92,569	192,295
Orange .....	—	28,000	28,000
Parkes .....	—	11,978	11,978
Parry .....	—	178,365	178,365
Port Macquarie .....	—	2,515	2,515
Port Stephens .....	2,164	349,486	351,650
Queanbeyan .....	—	60,052	60,052
Quirindi .....	—	9,860	9,860
Richmond River .....	321,275	141,531	462,806
Rylstone .....	—	110,499	110,499
Scone .....	48,502	125,616	174,118
Severn .....	—	70,607	70,607
Shellharbour .....	—	35,121	35,121
Shoalhaven .....	267,792	133,500	401,292
Singleton .....	372,944	196,294	569,238
Snowy River .....	294,381	88,338	382,719
Talbragar .....	—	44,280	44,280
Tallaganda .....	45,231	319,203	364,434
Tamarang .....	—	147,676	147,676
Tamworth .....	—	17,138	17,138
Taree .....	—	6,632	6,632
Temora .....	—	13,339	13,339
Tenterfield .....	—	31,949	31,949
Timbregongie .....	179,209	98,106	277,315
Tumbarumba .....	—	135,112	135,112
Tumut .....	15,117	132,399	147,516
Turon .....	—	807	807
Tweed .....	38,294	127,827	166,121
Ulmara .....	—	67,460	67,460
Uralla .....	—	113,377	113,377
Urana .....	—	109,974	109,974
Wade .....	—	273,772	273,772
Wagga Wagga .....	401	37,911	38,312
Wakool .....	169,486	334,734	504,220
Walcha .....	—	25,737	25,737
Walgett .....	34,282	931,061	965,343
Warren .....	—	144,666	144,666
Waugoola .....	—	126,277	126,277
Weddin .....	—	74,838	74,838
Wellington .....	—	145,528	145,528
Wentworth .....	1,650	111,871	113,521
Windouran .....	—	94,848	94,848
Wingham .....	—	21,349	21,349
Wingecaribee .....	—	210,745	210,745
Wollondilly .....	346,839	344,589	691,428
Wollongong .....	236,665	248,646	485,311
Wyang .....	—	499,721	499,721
Yallaroi .....	—	83,098	83,098
Yarrowlumla .....	256	169,203	169,459
Yass .....	—	10,922	10,922
Young .....	—	25,810	25,810
<b>Total Trunk and Ordinary Main Roads .....</b>	<b>4,997,388</b>	<b>21,675,298</b>	<b>26,672,686</b>

**APPENDIX No. 10 — continued  
COUNTRY MAIN ROADS FUND**

Summary of Payments from Department's Funds for Maintenance and Minor Improvement Works

City, Municipal or or Shire Area	Works carried out by		Total
	Department	Council	
(iv) TOURIST ROADS	\$	\$	\$
Abercrombie.....	—	382*	382*
Ballina .....	—	1,790	1,790
Coffs Harbour .....	—	142*	142*
Coonamble.....	—	3,043	3,043
Coonabarabran .....	—	4,000	4,000
Dumaresq.....	—	1,387	1,387
Eurobodalla .....	—	987	987
Evans .....	—	1,227	1,227
Goodradigbee .....	—	29,359	29,359
Gosford .....	—	2,000	2,000
Great Lakes.....	—	4,804	4,804
Guyra .....	—	139	139
Hastings .....	—	13,995	13,995
Imlay.....	—	2,576	2,576
Kempsey .....	—	7,043	7,043
Maclean.....	—	367	367
Nambucca.....	—	2,950	2,950
Port Macquarie .....	—	3,766	3,766
Scone.....	—	749	749
Snowy River .....	6,925	8,339	15,264
Tamarang.....	—	700	700
Tweed .....	—	19,612	19,612
Ulmara .....	—	1,450	1,450
Wade.....	—	6,591*	6,591*
Wagga Wagga.....	—	3,480	3,480
Wingecaribee .....	—	3,122	3,122
Wollondilly .....	—	2,160	2,160
Wollongong .....	—	157	157
<b>Total Tourist Roads.....</b>	<b>6,925</b>	<b>112,087</b>	<b>119,012</b>

**SUMMARY**

	\$	\$	\$
Freeways.....	384,378	—	384,378
State Highways .....	27,033,073	1,705,629	28,738,702
Trunk and Ordinary Main Roads.....	4,997,388	21,675,298	26,672,686
Tourist Roads .....	6,925	112,087	119,012
Other Roads.....	—	7,548	7,548
Allowances to councils, miscellaneous, etc. ....	1,141,867	2,041,472*	899,605*
Engineering services .....	959,168	613,239	1,572,407
<b>Total as shown in receipts and payments statement — Appendix No. 1(C)(I) ...</b>	<b>34,522,799</b>	<b>22,072,329</b>	<b>56,595,128</b>

\*Credit



# **APPENDIX No. 11** **TRAFFIC FACILITIES FUND**

(A) Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Maintenance

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) FREEWAYS</b>					<b>\$</b>
<b>Sydney to Newcastle Freeway</b>					
Gosford	F3	National Highway Planning Length 211A	Signposting and roadmarking	Department	24,445
Hornsby					
Gosford	F3	"	"	"	153,932
Hornsby	F3 & 10	"	"	"	1,154
					<u>179,531</u>
<b>South Western Freeway</b>					
Liverpool	F5 & 178	National Highway Planning Length 201A	Signposting and roadmarking	Department	2,757
Camden					
Mittagong	F5	Divided two lane carriageway, Aylmerton to Yanderra	"	"	32,855
					<u>35,612</u>
<b>Total Freeways</b>					<u>215,143</u>
<b>(II) STATE HIGHWAYS</b>					
<b>Hume Highway</b>					
Albury	2	Intersection of SH2 and Urana Rd, Albury North	Signals — Site No. 1320	Department	55,366
Camden	2	SH2 at six locations, Camden	Provision of passing lanes	"	175,879
Goodradigbee					
Harden					
Gundagai	2	National Highway Planning Length 203A	Provision of guardrail	"	118,808
Goodradigbee	2	Yass to Bowning, 5.6 km to 12.1 km south of Yass	Signposting and roadmarking	"	7,397
"	2	National Highway Planning Length 202A	Priority road signposting	"	4,454
Goodradigbee					
Harden					
Gundagai	2	National Highway Planning Length 203A	Signposting and roadmarking	"	59,445
Goodradigbee	2	"	"	"	45,457
"	2	National Highway Planning Length 202A	"	"	1,524
Goulburn City	2	83.6 km to 86.9 km south of Goulburn	Signposting on priority roads	"	591
"	2	82.1 km to 85.6 km south of Mittagong — dual carriageway	Signposting and roadmarking	"	1,706
"	2	Intersection of Auburn St and Goldsmith St, Goulburn	Signals — Site No. 1513	"	13,073
"	2	National Highway Planning Length 202A	Signals maintenance by contract	"	8,587
Gundagai	2	National Highway Planning Length 203A	Priority road signposting	"	9,545
"	2	Pavement reconstruction, 28.0 km to 37.0 km south of Gundagai	Signposting and roadmarking	"	178
"	2	Deviation around Gundagai and approaches to Murrumbidgee River Bridge	"	"	1,412
"	2	84.3 km to 96.3 km south of Gundagai	Provision of guardrail	"	11,319
Kyeamba					
Holbrook					
Hume	2	National Highway Planning Length 204A	Signposting and roadmarking	"	74,933
Liverpool	2 & 177	National Highway Planning Length 201A	Signals maintenance	"	308
"	2	Intersection SH2 and Glenfield Rd, Crossroads	Roadworks associated with signals — Site No. 1272	"	19,628
Mittagong	2	National Highway Planning Length 201B	Signposting and roadmarking	"	513
Mittagong					
Wollondilly	2	National Highway Planning Length 201A	"	"	37,410
Mittagong	2	National Highway Planning Length 201B	Priority road signposting	"	9,293
Mulwaree					
Gunning	2	National Highway Planning Length 202A	"	"	366
"	2	"	Provision of guardrail	"	113,987
Mulwaree	2	National Highway Planning Length 201B	Signposting and roadmarking	"	41,978
Mulwaree					
Gunning	2	National Highway Planning Length 202A	Signposting and roadmarking	"	16,230
Wingecarbee	2	154.3 km to 164.8 km south of Sydney	"	"	436
"	2	Hanging Rock — Uringalla Creek, 165.1 km to 169.9 km south of Sydney	"	"	230

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(A) Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Maintenance

City, Municipal of Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(ii) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Hume Highway — continued</b>					
Wollondilly	2	76.4 km to 78.4 km south of Sydney	Signposting and roadmarking	Department	4,578
Yass	2	Approaches to bridge over Yass River at Yass	"	"	3,051
					<b>837,682</b>
<b>Federal Highway</b>					
Mulwaree	3	National Highway Planning Length 214A	Priority road signposting	Department	2,661
"	3	Second carriageway, 14.3 km to 22.2 km south of Goulburn	Signposting and roadmarking	"	5,390
Mulwaree					
Gunning					
Yarrowlumla	3	National Highway Planning Length 214A	"	"	20,279
					<b>28,330</b>
<b>New England Highway</b>					
Denman					
Singleton	9	National Highway Planning Length 237A	Signals maintenance	Department	860
Greater Cessnock					
Singleton	9	National Highway Planning Length 236A	Signposting and roadmarking	"	26,185
Guyra					
Severn	9	National Highway Planning Length 237B	"	"	23,029
Maitland	9 & 607	Intersection of SH9 and MR607, Maitland	Temporary alteration	Council	6,663
Murrurundi	9	Blandford School, Murrurundi	Realignment of short section and improvement to curve	Department	46,269
Muswellbrook	9	7.92 km, 8.58 km, 8.91 km and 9.59 km north of Muswellbrook	Guardrail on bridge approaches	"	22,181
Newcastle	9 & 10	Junction of SH10 and SH9 at Hexham, 16.4 km north of Newcastle	Widening to extend left turn lane	"	8,451
"	9	National Highway Planning Length 236A	Signposting and roadmarking	"	20,624
Maitland					
Newcastle					
Maitland	9	"	Signals maintenance	"	20,447
Parry					
Tamworth	9	National Highway Planning Length 237B	"	"	17,659
Parry	9	"	"	Council	2,844
"	9	Intersection of SH9 and Denman St, Kootingal	Improvement	Department	36,695
Scone					
Tamarang					
Parry	9	National Highway Planning Length 237A	Signposting and roadmarking	"	54,168
Severn	9	National Highway Planning Length 237C	"	"	26,602
Singleton					
Denman	9	National Highway Planning Length 237A	"	"	33,994
Singleton	9	Coal Entrance, 24.98 km west of Maitland	Provision of slow vehicle lane	"	182*
"	9	National Highway Planning Length 237A	Signals maintenance	"	192
Tamworth	9	National Highway Planning Length 237B	Signposting and roadmarking	Council	610
"	9	"	Signals maintenance	"	231
"	9	New England Highway and Marius St, Tamworth	"	"	7,037
Tenterfield	9	Reconstruction, 3.2 km to 15.3 km south of Tenterfield	Signposting and roadmarking	"	296
"	9	National Highway Planning Length 237C	"	"	8,733
Uralla					
Dumaresq	9	National Highway Planning Length 237B	Signposting and roadmarking	Department	49,247
					<b>412,835</b>
<b>Pacific Highway</b>					
Wyong	10	National Highway Planning Length 212A	Signposting and roadmarking	Department	60,794
"	10	"	Guardrail on various bridge approaches	"	18,613
"	10	"	Priority roads signposting	"	3,444
"	10	Junction with Kanangra Dr, 125.54 km north of Sydney	Widening of pavement	"	42,907
"	10	National Highway Planning Length	Signals maintenance	"	6,836

\* Credit

(A) Summary of Payments from Grants under the States Grants (Roads) Act for Construction and Maintenance

(1) Note: Expenditure on national roads was financed as follows —

Grants under States Grants (Roads) Act, 1977 — Schedule 2 — Construction .....	129,324	
— Schedule 3 — Maintenance.....	<u>849,012</u>	978,336
State funds .....		<u>709,653</u>
		<u>1,687,989</u>



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) FREEWAYS</b>					\$
Warringah Freeway Sydney	F1	Sydney Harbour Bridge Driver Aid Scheme	Moveable medians	Department	120,598
					<u>120,598</u>
Western Freeway Blacktown Penrith	F4	Prospect to Penrith	Emergency telephones	Department	95,680
					<u>95,680</u>
Southern Freeway Wollongong	F6	Waterfall to Bulli Tollway	Driver Aid System	Department	33,079
"	F6 & F8	Intersection of F6 and F8, Wollongong	Channelisation associated with signal installation	"	3,531
					<u>36,610</u>
<b>Total Freeways</b>					<u><u>252,888</u></u>
<b>(II) STATE HIGHWAYS</b>					
Princes Highway Eurobodalla	1	Intersection of SH1 and Dalmeny Dr, 66.0 km south of Batemans Bay	Provision of additional lanes	Department	58,489
"	1	Intersection of SH1 and Broulee Rd, 17.4 km south of Batemans Bay	"	"	18,354
Eurobodalla Mumbulla	1	Narooma to Cobargo	Guardrail on crests and curves	"	1,199
Eurobodalla Kogarah	1	Intersection with Wharf St, Batemans Bay	Additional lanes	"	6,521
"	1	Intersection of SH1 and Woniora Rd, Blakehurst	Signals — Site No. 1208	"	2,642*
"	1	Intersection of SH1 and Carwar Ave, Blakehurst	Roadworks associated with signals — Site No. 1286	Council	2,154
"	1	Intersection of SH1 and Carwar Ave, Blakehurst	Signals — Site No. 1286	"	26,950
"	1	Intersection with Torrens St, Blakehurst	Signals — Site No. 1287	"	12,687
Marrickville	1	SH1, south of Union St, Newtown	Pedestrian signals — Site No. 2713	"	6,239
Rockdale	1	Intersection of SH1, Smith St and Union St, Tempe	Signals — Site No. 1285	"	33
"	1	Intersection of SH1 and Subway Rd, Banksia	Signals — Site No. 965	Department	702
"	1	Intersection of SH1 and Kyle St, Amcliffe	Signals — Site No. 960	"	948
Shoalhaven	1	Intersection of SH1 and Illaroo Rd, Nowra	Signals — Site No. 1529	"	23,361
South Sydney	1	Intersection of King St and Union St, Newtown	Signals — Site No. 679	"	1,952
Sutherland	1	Intersection of SH1 and Acacia Rd, Kirrawee	Signals — Site No. 1348	"	27,585
"	1 & 227	Intersection of SH1 and MR227, Kirrawee	Signals — Site No. 1289	"	987
"	1	Intersection with Old Princes Highway, South Engadine	Signals — Site No. 1290	"	875
"	1	Northern approach to Sutherland railway overbridge	Channelisation	"	7,311
"	1	Southwest approach to Tom Uglys Bridge, Sylvania	Provision of guardrail	"	11,936
"	1	Railway level crossing at Loftus	Adjustment of superelevation	"	2,991
"	1	Intersection of SH1 and Oak Rd, Kirrawee	Additional lanes	"	31,112
Wollongong	1	Foot of Bulli Pass	Provision of safety ramp and deceleration bed	"	13,388
"	1	Intersection of SH1 and Lysaght St, Fairy Meadow	Signals — Site No. 1031	"	1,102
"	1	Intersection of SH1, Towradgi St and Caldwell Ave, Towradgi	Signals — Site No. 1321	"	26,519
"	1	Intersection of SH1 and Elliotts Rd, Fairy Meadow	Signals — Site No. 1035	"	5,834*
"	1	Intersection of SH1, Smith St and Keira St, Wollongong	Signals — Site No. 1285	"	16,002
"	1	Princes Highway, Fairy Meadow	Co-ordinated traffic control signals system	"	8,272
"	1	Intersection of SH1 and Kanaooka Rd, Dapto	Signals — Site No. 1118	"	635
					<u>299,828</u>

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Hume Highway</b>					
Ashfield	2	Intersection of SH2 and Queen St, Ashfield	Signals — Site No. 1358	Department	17,457
"	2 & 2065	Intersection of SH2 and Victoria Rd, Ashfield	Signals — Site No. 1227	"	449
"	2	Intersection of SH2 and Holden St, Ashfield	Signals — Site No. 1254	"	615
Bankstown	2 & 2090	Intersection of SH2 and Boronia Rd, Greenacre	Signals — Site No. 1270	"	141
"	2	Intersection of SH2 and Railway Workshops, Chullora	Signals — Site No. 1269	"	110
"	2	Intersection of SH2 and Noble Ave, Greenacre	Signals — Site No. 1250	"	5,927
"	2	Intersection of SH2 and Railway Workshops, Chullora	Signals — Site No. 1343	"	141,006
"	2	Intersection of SH2 and Johnson Rd, Bass Hill	Signals — Site No. 1179	"	5,723
"	2	Intersection of SH2 and Noble Ave, Greenacre	Roadworks associated with signals — Site No. 1250	Council	4,826
"	2	Intersection of SH2 and Cooper Rd, Yagoona	Signals — Site No. 1545	Department	33,172
Burwood	2	Intersection of SH2 and Claremont Rd, Burwood	Signals — Site No. 1161	"	1,843
"	2	Intersection of SH2, Weldon St and Claremont Rd, Burwood	Signals — Site No. 1161	"	2,891*
Fairfield	2	Intersection of SH2 and Hollywood Drive, Lansvale	Signals — Site No. 1239	"	32,356
Liverpool	2	Intersection of SH2 and Mannix St, Liverpool	Signals — Site No. 1271	"	2,133
"	2	Intersection of SH2 and Bigge St, Liverpool	Signals — Site No. 1238	"	10,691
"	2	Intersection of SH2 and Bigge St, Liverpool	Roadworks associated with signals — Site No. 1238	Council	1,531
Strathfield	2	Intersection of SH2 and Wallis Ave, Strathfield South	Signals — Site No. 1253	Department	1,258
					<u>256,347</u>
<b>Snowy Mountains Highway</b>					
Mumbulla	4 & 19	Intersection of SH4 and SH19	Provide additional lanes	Department	16,461
					<u>16,461</u>
<b>Great Western Highway</b>					
Blacktown	5	Intersection of SH5 and Bennett Rd, St Marys	Signals — Site No. 1235	Department	2,196
"	5	Intersection of SH5 and Reservoir Rd, Blacktown	Roadworks associated with signals — Site No. 1237	"	79,503*
"	5	Intersection of SH5 and Carlisle St, Mt Druitt	Signals — Site No. 1234	"	6,061
"	5	Intersection of SH5 and Reservoir Rd, Prospect	Signals — Site No. 1237	"	5,004
Blaxland	5	10.0 km to 27.8 km west of Lithgow	Widening of shoulders	"	124,874
"	5	Approaches to railway overbridge, 16.9 km west of Lithgow	Guardrail	"	81
Blue Mountains	5	1.5 km to 16.0 km west of Katoomba	Widening of shoulders	"	153,810
"	5	Kidman St, Blaxland	Provision of chain-wire fencing	"	43,478
"	5	Governors Dr, Glenbrook	Provision of plant mix	"	6,474
"	5	SH5 and Macquarie Rd, Springwood	Provision of right turn storage for eastbound traffic	"	521
Burwood	5	Intersection of Parramatta Rd and Luke Ave, Burwood	Signals — Site No. 1542	Department	39,370
Evans	5 & 255	Intersection of SH5 and MR255	Improvement	"	64,062
Holroyd	5	Intersection of SH5 and Greystanes Rd, Greystanes	Signals — Site No. 891	"	1,397
"	5	Intersection of SH5 and Toongabbie Rd, Girraween	Signals — Site No. 1233	"	1,359

\*Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Great Western Highway — continued</b>					
Holroyd	5	Intersection of SH5 and Bridge Rd, Westmead	Signals — Site No. 1248	Department	28,580
Parramatta	5	Intersection of SH5 and Church St, Parramatta	Signals — Site No. 108	..	139
Penrith	5	Intersection of SH5 and Bennett Rd, St Marys	Signals — Site No. 1235	..	19,630
..	5	Intersection of SH5, Cary St and Lawson St, Emu Plains	Channelisation	..	157,172
..	5	Intersection of SH5 and Nepean St, Emu Plains	..	..	6,641
..	5 & 155	Intersection of SH5 and Castlereagh Rd, Penrith	Signals — Site No. 1267	..	17,238
..	5	Intersection of SH5 and Henry St, Penrith	Roadworks associated with signals — Site No. 1266	..	107,631
..	5	Intersection of SH5 and Glossop St, St Marys	Signals — Site No. 1236	..	3,942
..	5	Intersection of SH5 and Castlereagh Rd, Penrith	Roadworks associated with signals — Site No. 1267	..	5,512
..	5	Intersection of SH5 and Sydney St, St Marys	Signals — Site No. 1126	..	2,221
..	5 & 2082	Intersection of SH5 and Henry St (West), Penrith	Signals — Site No. 1266	..	9,240
Strathfield	5	SH5 and Sloane St, Strathfield	Roadworks associated with signals — Site No. 18	..	79
..	5	Intersection of Parramatta Rd and Bridge Rd, Homebush	Channelisation	Council	1,404
					<u>728,613</u>
<b>Mitchell Highway</b>					
Bogan	7	34.0 km north of Nyngan	Truck parking area	Council	3,392
Dubbo	7 & 17	Intersection of SH7 and SH17, Dubbo	Signals — Site No. 1504	Department	557
Timbregongie	7 & 347	Intersection of SH7 and MR347, Narromine (Dandaloo St)	Channelisation	Council	893
Wellington	7 & 233	Intersection of SH7 and MR233	Additional lanes	Department	113,502
					<u>118,344</u>
<b>Barrier Highway</b>					
Central Darling	8 & 21	Intersection of SH8 and SH21, 31.0 km east of Wilcannia	Additional lane	Department	6,707
					<u>6,707</u>
<b>Pacific Highway</b>					
Byron	10	27.6 km to 28.9 km north of Ballina	Guardrail around roadside objects	Department	10,180
Coffs Harbour	10	SH10, North Sapphire Beach Rd and Old Coast Rd, Coffs Harbour	Reconstruction of turnouts	..	45,860
Gosford	10	Intersection of Mann St and William St, Gosford	Signals — Site No. 1696	..	1,346
..	10 & 26	Junction of SH10 and SH26 at Penang, 6.92 km south of Gosford	Improvement of intersection	..	456*
..	10	Intersection of Mann St and Erna St, Gosford	Signals — Site No. 1173	..	5,787
Great Lakes	10	Karuah to Bulahdelah	Raised reflective pavement markers	..	21*
Hastings	10	SH10 at Cairncross State Forest, Hastings	Deceleration lanes for access to rest area	..	15,636
..	10	61.0 km north of Taree	Adjustment of superelevation on isolated curve	..	3,587
..	10	Sapling Creek, Gills Creek and railway overbridge, 3.0 km south of Kempsey	Guardrail on bridge approaches	..	62
Hornsby	10	Mt Ku-ring-gai Shopping Centre	Pedestrian overbridge	..	48,778
..	10	Mt Ku-ring-gai	Pedestrian overbridge	..	1 1614
Kempsey	10 & 75	Intersection of SH10 and TR75, Kempsey	Street lighting	Council	472*

\*Credit



**APPENDIX No. 11 — continued  
TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Pacific Highway — continued</b>					
Kempsey	10	12.0 km south of Kempsey	Elimination of crest	Department	27,360
"	10	Intersection of SH10 and Second Lane, 2.62 km north of Kempsey	Channelisation	"	124,755
Ku-ring-gai	10	Intersection of SH10 and Fox Valley Rd, Warrawee	Signals — Site No. 1225	"	71,089
"	10	Intersection of SH10 and Provincial Rd, Lindfield	Signals — Site No. 1394	"	16,044
"	10	Intersection of SH10 and MacLaurin Pde, Roseville	Signals — Site No. 1112	"	2,167
"	10	Intersection of SH10 and Fox Valley Rd, Turramurra	Signals — Site No. 1225	"	495
"	10	Intersection of SH10 and Cecil St, Gordon	Signals — Site No. 1113	"	185
"	10	Intersection of SH10, Marian St and Buckingham St, Killara	Signals — Site No. 1108	"	1,955*
"	10	Intersection of SH10 and Livingstone Ave, Pymble	Signals — Site No. 1109	"	20,446
"	10	Intersection of SH10 and Kissing Point Rd, Turramurra	Roadworks associated with signals — Site No. 425	"	439*
"	10	Intersection of SH10 and Clanville Rd, Roseville	Signals and modified channelisation — Site No. 2576	"	39,908
Lake Macquarie	10	Intersection of SH10 and Evan St, Belmont	Signals and modified channelisation — Site No. 2605	"	11,472
"	10	Intersection of SH10 and Charlestown Rd, Charlestown	Signals — Site No. 928	"	14,069
"	10	Intersection of SH10 and Frederick St, Charlestown	Signals — Site No. 931	"	17,599
"	10	Intersection of SH10 and Dudley St, Charlestown	Signals — Site No. 932	"	27,951
"	10	Intersection of SH10 and Ridley St, Charlestown	Signals — Site No. 929	"	3,775
Maclean	10	Intersection with Iluka Rd, 60.9 km north of Grafton	Additional lane	"	60,186
Manning	10	36.0 km south to 73.0 km north of Taree and 0 km to 33.0 km north of Kempsey	Raised reflective pavement markers	"	456
Newcastle	10	Intersection of Maitland Rd and Elizabeth St, Tighes Hill	Signals — Site No. 1121	"	751
"	10	SH10 and Evans St, Belmont	Roadworks associated with traffic signals — Site No. 1312	"	3,090
"	10	Islington railway overpass	Modification of traffic facilities	Council	25
"	10	Intersection of Hunter St and Stewart Ave, Wickham	Signals — Site No. 1197	Department	18,435
"	10	Intersection of Maitland Rd, Carrington Rd and Silsoe St, Mayfield	Signals — Site No. 1313	"	19,395
"	10	Iron Bark Creek Bridge at Hexham	Correction of pavement	Council	9,032
"	10	Intersection of Maitland St and Wallsend Rd, Sandgate	Provision of right turn lane	"	16,157
North Sydney	10	Intersection of SH10 and Berry St, North Sydney	Signals — Site No. 1206	Department	1,149
Tweed	10	70.0 km to 89.0 km north of Ballina	Guardrail on bridge approaches	"	1,535
"	10	SH10, Bridge over Terranora Inlet and Tweed River	Guardrail on bridge approaches	"	330
"	10	Intersection of SH10 and Bay St, Tweed Heads	Signals — Site No. 1499	"	69,510
Ulmarra	10	16 locations, 19.99 km to 79.18 km north of Coffs Harbour	Provision of bus bays	"	6,318
"	10	46.4 km to 51.0 km and 56.2 km to 58.9 km north of Coffs Harbour	Clearing of shoulders	"	11,242
Willoughby	10	Intersection of SH10, Wyvern Ave and William St, Chatswood	Signals — Site No. 1305	"	358
"	10	Intersection of SH10 and Railway St, Chatswood	Signals — Site No. 1219	"	240
"	10	Intersection of SH10, Wyvern St and William St Chatswood	Signals — Site No. 1305	"	865

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Construction Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Pacific Highway — continued</b>					
Willoughby	10	Intersection of SH10 and Boundary St, Roseville	Roadworks associated with signals — Site No. 457	Department	189
"	10	Intersection of SH10 and Ashley St, Chatswood	Roadworks associated with signals — Site No. 1283	"	15
"	10	Intersection of SH10 and Ashley St, Chatswood	Signals — Site No. 1283	"	1,586
					<u>731,130</u>
<b>Gwydir Highway</b>					
Moree	12	SH12 at Mehi River, Moree	Guardrail on bridge approaches	Council	2,682
Nymboida	12	32.66 km west of Grafton	Guardrail around roadside objects	Department	10
Yallaroi	12 & 63	Intersection of SH12 and TR63, west of Warialda	Channelisation of intersection	Council	276
"	12	13.0 km west of Warialda	Realignment of short section	"	4,309
					<u>7,277</u>
<b>State Highway No. 13</b>					
Baulkham Hills	13	Intersection with Jenkins Rd, Carlingford	Signals — Site No. 1240	Department	1,081
Baulkham Hills	13 & Hornsby 156	Intersection of SH13 and MR156, West Pennant Hills	Signals — Site No. 1150	"	713
Fairfield	13	Intersection of SH13 and Villawood Rd, Villawood	Pedestrian signals — Site No. 968		114
"	13	Intersection of Woodville Rd and Villawood Rd, Villawood	Signals — Site No. 968	"	51,293
Gosford	13	Intersection of Pennant Hills Rd and Normanhurst Rd, Normanhurst	Signals — Site No. 1274	"	14,558
Hornsby	13	Intersection of Pennant Hills Rd, The Crescent and Railway St, Pennant Hills	Signals — Site No. 1273	"	15,907
"	13	Intersection of Pennant Hills Rd and Duffy Ave, Thornleigh	Signals — Site No. 1255	"	24,418
"	13	Intersection of SH13 and Boundary Rd, Pennant Hills	Signals — Site No. 1170	"	601
"	13	Intersection of SH13 and Normanhurst Rd, Normanhurst	Roadworks associated with signals — Site No. 1274	Council	11,037
"	13	Intersection of SH13, Duffy Ave and Trelawney St, Thornleigh	Signals — Site No. 1255	"	679
"	13	Intersection of SH13 and Normanhurst Rd, Normanhurst	Roadworks associated with signals — Site No. 1274	Department	4,147
"	13 & 139	Intersection of SH13 and Beecroft Rd (East), Beecroft	Signals — Site No. 1226	"	892
"	13	Intersection of Pennant Hills Rd and Duffy Ave, Thornleigh	Signals — Site No. 1255	"	8,596*
Parramatta	13	Intersection of Guildford Rd and Woodville Rd, Guildford	Modified channelisation	"	18,130
"	13	Pennant Hills Rd, Ramp No. 1, North Parramatta	Signals — Site No. 1026	"	3,666
"	13	Intersection with Adderton Rd, Carlingford	Signals — Site No. 1242	"	1,014
"	13	Intersection of Woodville Rd and Guildford Rd, Guildford	Channelisation	"	37,194
"	13 & 158	Intersection of Pennant Hills Rd and Marsden Rd, Carlingford	Signals — Site No. 560	"	8,144
					<u>184,992</u>
<b>Sturt Highway</b>					
Bairnald	14	Intersection of Market St and McCabe St, Bairnald	Modification of existing channelisation	Department	886
Wagga Wagga	14	Intersection of Hammond Ave, Edward St and Lake Albert Rd, Wagga Wagga	Signals — Site No. 1322	"	1,272
					<u>2,158</u>
<b>Bruxner Highway</b>					
Lismore	16	Intersection of Hunter St, Zadoc St and Milton St, Lismore	Bus bays	Council	8,423
					<u>8,423</u>

\*Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(II) STATE HIGHWAYS — continued</b>					<b>\$</b>
<b>Newell Highway</b>					
Berrigan	17	15.1 km and 16.3 km north of Finley	Widening of narrow irrigation crossing on poor alignment	Council	108,155
"	17	Railway level crossing at approach to Tocumwal Bridge, Tocumwal	Widening	"	13,717
					<u>121,872</u>
<b>Castlereagh Highway</b>					
Walgett	18	Single lane bridge over Namoi River at Walgett	Temporary installation of traffic signals	Council	713
					<u>713</u>
<b>Cobb Highway</b>					
Murray	21	Intersection of MR341 and Francis St, Moama	Improvement	Council	26,713
					<u>26,713</u>
<b>State Highway No. 23</b>					
Lake Macquarie	23	Intersection of SH10 and Smart St, Charlestown	Signals — Site No. 1078	Council	11,673
"	23	Pacific Highway, Charlestown to Myall Rd, Kotara	Raised reflective pavement markers	"	14
Newcastle	23	Pacific Highway, Sandgate to Myall Rd, Kotara	"	"	72
					<u>11,759</u>
<b>Total State Highways</b>					<u><u>2,521,337</u></u>
<b>(III) TRUNK AND ORDINARY MAIN ROADS</b>					
Auburn	190	Intersection of Joseph St and Amy St, Regents Park	Signals — Site No. 1451	Department	362
Bankstown	190	Intersection of Chapel St and Rickard St, Bankstown	Signals — Site No. 1203	"	887
"	190	Intersection of Brunner Rd and Rookwood Rd, Yagoona	Signals — Site No. 225	"	1,536
"	190	Intersection of Brandon Ave and Chapel Rd, Bankstown	Signals — Site No. 1564	"	34,815
Baulkham Hills	184	Intersection of Windsor Rd and Moxhams Rd, Northmead	Signals — Site No. 1086	"	17,791
Baulkham Hills	184	Intersection of Windsor Rd and Cook St, Baulkham Hills	Signals — Site No. 1196	"	311
"	184	Intersection of Windsor Rd and Moxham Rd, Northmead	Signals — Site No. 1086	"	561*
"	184	Intersection of Windsor Rd and Cook St, Baulkham Hills	Signals — Site No. 1196	"	1,068
"	184	Intersection of Windsor Rd, Junction Rd and Linton St, Baulkham Hills	Signals — Site No. 1243	"	1,372
"	184	Intersection of Windsor Rd and Churchill Dr, Northmead	Signals — Site No. 1277	"	11,010
"	184 & 157	Intersection of Windsor Rd and Showground Rd, Castle Hill	Signals — Site No. 1279	"	9,145
"	184	Intersection of Windsor Rd and Coronation Rd, Baulkham Hills	Signals — Site No. 1249	"	20,617
"	184	Intersection of Windsor Rd and Churchill Dr, Winston Hills	Roadworks associated with signals — Site No. 1277	Council	1,406
Bingara	133	Killarney Gap	Guardrail on curves	"	78
"	133	"	Realignment of short section	"	70*
Bingara	133	MR133 at Killarney Gap, Nandewar Range	Provision of guardrail on curves	"	7,863
Blaxland	516	7.6 km to 8.4 km east of Lithgow	Provision of shoulders	Department	9,335
"	516	12.56 km to 12.71 km east of Lithgow	Guardrail on curve	"	5,217
Blue Mountains	184	43.63 km to 77.44 km west of Windsor	Raised reflective pavement markers	"	8,481
"	516 & 184	Intersection of MR516 and MR184, Bell	Improvement of intersection	"	17
"	516	66.71 km to 79.62 km west of Windsor	Raised reflective pavement markers	"	2,293

\*Credit



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Boomi	367	Millie Creek Bridge, 15.0 km east of Garah	Guardrail on bridge approaches	Council	722
Boree	238 & 377	Intersection of MR238 and MR377, Boree	Channelisation	..	14,843
Botany	170	Intersection of Botany Rd and Epsom Rd, Zetland	Signals — Site No. 1232	Department	308
..	171	Intersection of Perry St and Franklin St, Matraville	Signals — Site No. 1262	..	20,292
..	171 & 317	Intersection of Bunnerong Rd and Fitzgerald Ave, Pagewood	Signals — Site No. 1263	..	13,077
..	183	Ricketty St, east of Shea's Creek, Mascot	Pedestrian signals — Site No. F380	..	1,610
..	183	Gardeners Rd, east of Endeavour Rd, Daceyville	Pedestrian signals — Site No. 1426	..	1,018
..	183 & 2008	Intersection of Gardeners Rd and O'Riordan St, Mascot	Reconstruction of signals — Site No. 65	..	23,635
..	183	Intersection of Gardeners Rd, General Bridges Cres and Houston Rd, Kingsford	Signals — Site No. 1425	..	10,104
..	183	Gardiners Rd, east of Doncaster Ave, Kensington	Signals — Site No. P267	..	4,012
..	616 & 170	Intersection of Bumborah Rd and Botany Rd, Botany	Signals — Site No. 1528	..	286
..	616	Beauchamp Rd and Denison St, from Botany Rd to Wentworth Ave	Signposting and roadmarking by direct control	..	2,541
Brewarrina	68	Approaches to Billabong Creek Bridge at Brewarrina	Guardrail	Council	111
Burrangong	78	TR78, various locations	Provision of guard fencing	..	10,852
..	78	Intersection with road to Bendick Murrel	Sealing of shoulders on curve	..	2,965
Burwood	549	Intersection of Georges River Rd and Croydon Ave, Croydon Park	Signals — Site No. 999	Department	622
..	549 & 2040	Intersection of Georges River Rd and Milton St, Ashfield	Signals — Site No. 1228	..	254
..	549 & 2014	Intersection of Georges River Rd and Brighton Ave, Croydon Park	Signals — Site No. 189	..	2,151
Campbelltown	177	Intersection of Queen St and Railway St, Campbelltown	Signals — Site No. 1488	..	12,662
..	177	Intersection of Queen St and Dumaresq St, Campbelltown	Signals — Site No. 1515	..	26,887
Canterbury	167	Junction with Phillips Ave, Canterbury	Elimination of intersection	Council	3,968
..	167	Intersection of Canterbury Rd and Wonga St, Canterbury	Signals — Site No. 1167	Department	952
..	167	Canterbury Rd — full length	Raised reflective pavement marking	..	1,724
..	167 & 315	Intersection of MR167 and MR315, Wiley Park	Reconstruction of signals — Site No. 64	..	18,095
..	167 & 2040	Intersection of Canterbury Rd and Jeffrey St, Canterbury	Reconstruction of signals — Site No. 855	..	28
..	315	Wiley Park Station	Pedestrian subway	..	3,071
Central Darling	68	Various locations on TR68 and Shire Road No. 1	Provision of guardrail on bridge approaches	Council	293
Cockburn	105	14.0 km, 20.7 km, 21.3 km and 22.1 km east of Tamworth	Guardrail on bridge approaches	..	80
Coffs Harbour	151	Intersection of MR151 and Mt Brown Rd	Realignment of short section	..	21*
Condobolin	57	1.6 km east of Condobolin	Guardrail around roadside objects	..	2,154
Denman	209	Full length within Shire — various locations	Advisory speed signs on curves	..	64
Drummoyne	165	Victoria Rd and Wolseley St, Drummoyne	Improvements to intersection	..	9,417
..	395	Intersection of Lyons Rd and Gipps St, Drummoyne	Channelisation	..	1,293
Eurobodalla	560	MR560 and Beach Rd, Batemans Bay to Broulee	Provision of bus bays	..	20,466
Fairfield	515	Intersection of Elizabeth Dr and Meadows Rd, Mt Pritchard	Signals — Site No. 1446	Department	17,555
..	609	Intersection of Fairfield Rd and Dursley Rd, Fairfield	Signals — Site No. 1084	..	5,721

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Fairfield	609	Intersection of The Horsley Drive and River Ave, Villawood	Signals — Site No. 1546	Department	210
"	609	Intersection of The Horsley Drive and Sanderson St, Carramar	Road closure	Council	3,447
Forbes	350	Intersection of MR350 and Farvell St, Forbes	Channelisation	"	16,060
Gilgandra	572	7.0 km to 7.6 km west of SH17	Provision and clearing of shoulders	"	14,818
Goobang	61 & 6	0 km to 35.0 km west of Parkes	Advisory speed signs on curves	"	891*
"	61 &				
"	234	Various locations, TR61 and MR234	Widening of existing culverts	"	12,926
Goulburn City	256	Goulburn to Taraiga	Advisory speed signs	"	70
Gosford	335	Ourimbah Creek to Aubrey St, Killamey Vale	Improvement of skid resistance	"	237
Great Lakes	90	MR567 to Craven at Wards River	Advisory speed signs on curves	"	7,517*
"	111	Isolated curve, 28.6 km north of Bulahdelah at Bungwahl	Adjustment of superelevation	"	1,053
Greater Cessnock	181	3.3 km and 3.4 km north of Bucketty	Improvement of superelevation on curves	"	472
"	218	Maitland City Boundary to Colo Shire Boundary	Advisory speed signs on curves	"	65
"	218	Forbes St to Goulburn St, Abermain	Erection of guardrail and hazard markers	"	108
"	220	0 km to 21.5 km north of Cessnock and 57.5 km to 74.9 km north of Wyong	Advisory speed signs on curves	"	40
Guyra	73	TR73 at Sandy Creek, Guyra	Guardrail on bridge approaches	"	6,571
Harden	78	Various locations	Improvement to vertical alignment	"	1,529
"	84	1.9 km to 2.1 km west of Murrumburrah	Realignment of short section	"	1,572
"	84	Demondrille Creek Bridge	Guardrail around roadside objects	"	1,529*
Hornsby	139	Intersection of Beecroft Rd and Hannah Rd, Beecroft	Signals — Site No. 1132	Department	420
"	139	Intersection of Beecroft Rd and Copeland Rd, Beecroft	Signals — Site No. 869	"	1,196
"	373	Intersection of Carlingford Rd and Rawson St, Epping	Roadworks associated with signals	Council	75
"	373	Intersection of Epping Rd and Pembroke St, Epping	Signals — Site No. 1223	Department	1,745
"	587	Intersection of Bridge Rd and Railway Pde, Hornsby	Modified channelisation	"	23*
Hunters Hill	165	Intersection of Victoria Rd and Crown St, Henley	Signals — Site No. 1297	"	23,192
"	165	Intersection of Victoria Rd and Meriton St, Gladesville	Signals — Site No. 1016	"	25,073
Hurstville	168 &	Intersection of Forest Rd and			
"	2041	Stoney Creek Rd, Peakhurst	Signals — Site No. 1063	"	21,026
"	168	Intersection of Forest Rd and Jacques Ave, Peakhurst	Signals — Site No. 641	"	556
Hurstville	168	Intersection of MR168 and Croydon Rd, Hurstville	Signals — Site No. 1025	"	2,192
Rockdale					
Inverell	73	O'Connor St Bridge, Inverell	Pedestrian precincts	Council	175
Kogarah	315	At South Hurstville Public School	Pedestrian overbridge	Department	426
Ku-ring-gai	162	Intersection of Mona Vale Rd and Telegraph Rd, Pymble	Signals — Site No. 1061	"	955
"	328	Intersection of Boundary St and Babbage Rd, Roseville	Provision of extra lanes	"	197,613
"	328	Intersection of Archer St and Boundary St, Roseville	Signals — Site No. 1207	"	530
Lake Macquarie	217	Fishery Point Rd, Morisset, 34.94 km south of SH23	Provision of passing lane	Council	145
"	217	42.47 km to 44.37 km south of SH23, Wyee	Widening and sealing of road shoulders on curves	"	8
"	217	Fishery Point Rd, Morisset, 34.94 km south of SH23	Provision of slow vehicle lane	"	945
"	217 &	Intersection of MR217 and MR392, 1.5 km south of Morisset	Additional lane	"	261
"	392				

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Lake Macquarie	217	Intersection of MR217 with previous route of MR325 at Cackle Creek	Modification of existing channelisation	Council	334
"	217	Full length within Shire — various locations	Advisory speed signs on curves	"	34
"	527	Intersection of Hillsborough Rd and Macquarie Rd, Warners Bay	Signals — Site No. 1331	Department	5,790
"	527	Intersection of Croudace Bay Rd with Andrew Rd, Valentine	Provision of slow vehicle lane	Council	86
"	527 & 23	Intersection of Macquarie Rd and Hillsborough Rd, Warners Bay	Roadworks associated with signal installation — Site No. 1331	"	19,780
Lane Cove	166	Intersection of Burns Bay Rd and Penrose St, Lane Cove	Roadworks associated with signals — Site No. 410	Department	29,099
"	373	Intersection of Northwood Rd and Kenneth St, Northwood	Signals — Site No. 936	"	20,187
"	373	Intersection of Epping Rd and Centennial Ave, Lane Cove	Signals — Site No. 371	"	13,586
Leeton	80 & 539	Intersection of TR80 and MR539	Improvement of visibility	Council	16,157
Maitland	101	SH9 at Maitland to Dungog Shire Boundary	Advisory speed signs on curves	"	32
"	102	SH9 at East Maitland to Port Stephens Shire Boundary	"	"	21
"	104	"	"	"	98
"	301	MR101 at Bolwarra to Port Stephens Shire Boundary	Advisory speed signs on curves	"	11
Manly	159	Intersection of Sydney Rd and Hill St, Fairlight	Signals — Site No. 1333	Department	26,563
"	159	Intersection of Pittwater Rd and Collingwood Rd, Manly	Signals — Site No. P269	"	10,863
"	164	Intersection of Sydney Rd and Thornton St, Fairlight	Pedestrian signals — Site No. 1054	"	19,411
"	164	Intersection of Balgowlah Rd and Condamine St, Manly	Signals — Site No. 1053	"	1,834
Marrickville	167	Intersection of New Canterbury Rd and Audley St, Petersham	Signals — Site No. 747	"	1,949
"	167	Intersection of New Canterbury Rd and Duntroon St, Hurstville Park	Signals — Site No. 1303	"	1,970
Merriwa	62	17.25 km east to 59.41 km west of Merriwa	Bridge width markers	Council	11
"	62	Isolated curve, 8.0 km west of Merriwa	Adjustment of superelevation	"	453
"	209	0 km to 24.86 km south of Merriwa	Bridge width markers	"	11
"	214	0 km to 41.44 km south of TR62	"	"	11
Mosman	164	Intersection with Cowles Rd, Mosman	Signals — Site No. 1224	Department	1656
Murray Darling Division	66	20.0 km east of Broken Hill	Adjustment of superelevation	"	250*
Nambucca	118	3.4 km north of Macksville	Realignment of short section to improve sight distance	Council	26
Newcastle	82	Intersection of Donald St and Beaumont St, Hamilton	Signals — Site No. 1217	Department	17,090
"	82	Intersection of Griffiths Rd and Orlando Rd, Lambton	Signals — Site No. 1168	"	25,780
"	82	Intersection of Broadmeadow Rd and Brisbane Rd, Broadmeadow	Signals — Site No. 1122	"	2,493
"	108	Intersection of Hunter St and Steel St, Newcastle	Signals — Site No. 1138	"	1,141
"	188	Intersection of Brunner Rd and Glebe Rd, Adamstown	Signals — Site No. 50	"	852
"	316	Intersection of Hannell St and Lee Wharf Rd, Wickham	Signals — Site No. 1379	"	13,556
"	316	Bridge over Selwyn St, Tighes Hill	Guardrail	Council	485
"	316	Industrial Dr, east of Avon St, Mayfield	Pedestrian signals — Site No. 1465	"	11,480
"	316	Intersection of Hunter St and Denison St, Wickham	Signals — Site No. 1137	"	909
"	316	Intersection of Industrial Dr and Tourle St, Mayfield	Signals — Site No. 1077	"	1,083
"	326	Intersection of Turton Rd and Georgetown Rd, Georgetown	Signals — Site No. 1142	Department	950

\* Credit



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
(III) TRUNK AND ORDINARY MAIN ROADS — continued					\$
Newcastle	605	Intersection of Rankin Dr, Hugo Ave, Moore St and Birmingham Gardens	Signals — Site No. 641	Department	48
"	605	Intersection of Lorne St and Maude St, Waratah	Signals — Site No. 1298	"	34,552
North Sydney	164	Intersection of Miller St and McLaren St, North Sydney	Signals — Site No. 1156	"	1,379
"	164	Intersection of Miller St and Ridge St, North Sydney	Signals — Site No. 1309	"	2,485
"	164 & F1	Intersection of Falcon St and Warringah Freeway, Neutral Bay	Roadworks associated with signals — Site No. 337	"	271
"	164	Intersection of Military Rd and Spofforth St, Cremorne	Roadworks associated with signals — Site No. 611	"	5,569
Parramatta	139	MR139, between Carlingford Rd and Epping Overbridge	Adjustment of medians	"	2,224
"	184	SH13, Parramatta to Divisional Boundary at Berambing	Raised reflective pavement markers	"	106
"	200	Approaches to Ryde Bridge — Concord Rd and Church St, Rhodes	Provision of moveable medians	"	9,890
"	373	MR373 from Essex St to Pembroke St, Epping	Resheeting with sand asphalt	"	13,620
"	532	Intersection of Silverwater Rd and Camaron St, Silverwater	Signals — Site No. 1214	"	97,953
Parry	105	22.4 km east of Tamworth	Improvement of curves	Council	11,709
Port Stephens	90	SH10 to Great Lakes Shire Boundary	Advisory speed signs on curves	"	35
"	108	From SH10 and Lake Macquarie Rd to Shoal Bay	"	"	509
"	108	Southbound lane at Nelson Bay	Passing lane	"	174
"	108	From SH10 and Lake Macquarie Rd to Shoal Bay	Advisory speed signs on curves	"	92
"	302	From SH10 at Hexham to MR108 at Williamtown	"	"	36
Randwick	171	Intersection of Bunnerong Rd and Perry St, Matraville	Signals — Site No. 1262	Department	15,136
"	171	Intersection of Bunnerong Rd and Beauchamp Rd, Matraville	Reconstruction of signals — Site No. 572	"	14,162
"	171	Intersection of Bunnerong Rd and Fitzgerald Ave, Maroubra	Roadworks associated with signals — Site No. 1263	"	87
"	327	Intersection of Anzac Pde and Barker St, Kensington	Signals — Site No. 1189	"	772
"	327	Alison Rd from Anzac Pde to Doncaster Ave, Randwick	Bus road	"	18,926
Richmond River	149	Spring Gully Bridge, 29.6 km south west of Coraki	Guardrail on bridge approaches	Council	818
Rockdale	168 & 2032	Intersection of Wickham St and West Botany St, Arncliffe	Channelisation	"	12,926
"	194 & 2079	Intersection of Grand Pde and President Ave, Brighton	Signals — Site No. 878	Department	91
"	194	The Grand Pde, south of Duke St, Brighton-le-Sands	Pedestrian signals — Site No. 1422	"	1,747
"	199	Intersection of Taren Point Rd and Holt Rd, Taren Point	Signals — Site No. 374	"	66,333
Rockdale	199 & Kogarah	Intersection of Rocky Point Rd and Sandringham St, Sans Souci	Signals — Site No. 1154	"	644
Ryde	139 & 2024	Intersection of Blaxland Rd and Balaclava Rd, Eastwood	Modification of existing channelisation	Council	2,154*
"	139	Intersection of Blaxland Rd and North Rd, East Denistone	Signals — Site No. 1276	Department	25,109
"	139	Intersection of Blaxland Rd and Lovell Rd, Eastwood	Signals — Site No. 1275	"	650
"	139	Intersection of Blaxland Rd and North Rd, East Denistone	Roadworks associated with signals — Site No. 1276	Council	5,736
"	162	Intersection of Lane Cove Rd and Waterloo Rd, North Ryde	Signals — Site No. 1012	Department	21,848
"	165	Intersection of Victoria Rd and Meriton St, Gladesville	Roadworks associated with signals — Site No. 1016	"	896*

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Ryde	200	Intersection of Church St and Devlin St, Ryde	Provision of right turn bay	Department	19,813
"	373	Intersection of Epping Rd and Herring Rd, Marsfield	Signals — Site No. 793	"	1,041
"	373 & 2058	Intersection of Epping Rd and Wicks Rd, North Ryde	Signals — Site No. 226	"	55,785
"	373	Intersection of Epping Rd and Pembroke St, Epping	Roadworks associated with signals — Site No. 1223	"	1,357
Scone	62	0 km to 47.15 km west of Scone	Bridge width markers	Council	21*
"	105	0 km to 47.0 km east of Scone	"	"	10
Shellharbour	522	Intersection of Shellharbour Rd and Queen St, Warilla	Signals — Site No. 1364	Department	8,232
"	522	Intersection of MR522 and MR611 at Warilla	Signals — Site No. 1090	"	6,721
South Sydney	170	Intersection of Botany Rd and Harcourt Pde, Rosebery	Signals — Site No. 1264	"	1,034
"	170 & 528	Intersection of Botany Rd and McEvoy St, Alexandria	Signals — Site No. 45	"	32,451
"	170	Intersection of Botany Rd, Buckland St and Wellington St, Waterloo	Signals — Site No. 132	"	30,652
"	170	Intersection of Botany Rd and Harcourt Pde, Rosebery	Signals — Site No. 1264	"	83
"	170	Intersection of Botany Rd and Collins St, Beaconsfield	Signals — Site No. 1231	"	2,286
"	193 & 2005	Intersection of Copeland St and Mitchell Rd, Alexandria	Signals — Site No. 1340	"	13,974
"	330	Cleveland St — full length	Raised reflective pavement marking	"	856
"	330 & 593	Intersection of Cleveland St and South Dowling St, Moore Park	Pedestrian signals — Site No. P282	"	4,084
Strathfield	315	Intersection of The Boulevarde and Morwick St, Strathfield	Signals — Site No. 804	"	575
Sutherland	227	Intersection of Kingsway and Wandella Rd, Miranda	Signals — Site No. 918	"	2,086
"	227	Intersection of Kingsway, Milburn Rd and Gymea Bay Rd, Sutherland	Modified channelisation	Council	18,068
"	227	Intersection of Kingsway, Milburn Rd and Gymea Bay Rd, Gymea	Signals — Site No. 1127	Department	1,184
Sydney	165	Eastern approach to Glebe Island Bridge, Pyrmont	Improvement to curve	Council	62,474
Sydney					
Woollahra	172	Oxford St, east of Regent St, Paddington	Pedestrian signals — Site No. P253	Department	8,004
"	172	Intersection of Oxford St and Napier St, Paddington	Signals — Site No. 907	"	932
Sydney	330	Cleveland St, east of South Dowling St, Moore Park	Pedestrian signals — Site No. P282	"	12,583
"	592	Intersection of Sir John Young Cres and Cahill Expressway	Modified channelisation	Council	653
"	592	Cahill Expressway Loop, south of Sydney	Improvement of skid resistance	Department	25,281
"	592	Cahill Expressway under Botanical Gardens, north of tunnel	Median barrier	"	26,251
"	330 & 593	Intersection of South Dowling St and Cleveland St, Sydney	Provision of additional lanes	Council	9,959
Tumut	85	16.33 km to 17.3 km south of Tumut	Provision of guardrail	"	12,829
Wade	254 & 80	Intersection with TR80 at Wumbulgal	Improvement	"	4,686
"	321	Intersection of Beelbanger Rd and Bilbul Rd, Beelbanger	"	"	2,215
Wagga Wagga	78	Intersection of TR78 and Oura Rd, Wagga Wagga	Channelisation	"	21,543
"	211	Intersection of Bourke Rd and Fernleigh Rd, Wagga Wagga	Signals — Site No. 1193	Department	50,157
Wakool	94	McDonalds Bridges, 0.4 km west of Wakool	Guardrail on bridge approaches	Council	40
"	94	58.93 km to 59.52 km west of SH21	Improvement of skid resistance	"	874
Walgett	329	Approaches to Cashells Bridge, 6.0 km north of Pilliga	Improvement of traffic facilities	"	3,468

\* Credit

**APPENDIX No. 11 — continued  
TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78 \$
<b>(III) TRUNK AND ORDINARY MAIN ROADS — continued</b>					
Warren	202	Martha Guy Creek Bridge, 20.0 km north of SH11	Guardrail on bridge approaches	Council	358
Warringah	162 & 397	Mona Vale Rd and Wakehurst Parkway	Provision of guardrail	Department	33,661
"	162 & 164	Intersection of Pittwater Rd and Mona Vale Rd, Mona Vale	Signals — Site No. 587	"	861
"	164	Intersection of Condamine St and Old Pittwater Rd, Manly North	Signals — Site No. 1259	"	1,192
"	164	Intersection of Pittwater Rd and Mactier St, Narrabeen	Signals — Site No. 1256	"	24,664
"	164	Intersection with Park St and Golf Ave, Mona Vale	Signals — Site No. 1050	"	95
"	164	Intersection with Pittwater Rd at Long Reef, Collaroy	Improvement of superelevation	Council	16,157
"	164	Intersection of Bassett St and Barrenjoey Rd, Mona Vale	Provision of right hand turn storage bays	Department	466
"	164	"	Right turn lane	"	44,273
"	164	Intersection of Condamine St and Old Pittwater Rd, North Manly	Roadworks associated with signals — Site No. 1259	Council	3,666
"	164	Intersection of Pittwater Rd and Waterloo St, Narrabeen	Signals — Site No. 1257	Department	3,724
"	164	Intersection of Barrenjoey Rd and Avalon Pde, Avalon	Signals — Site No. 1258	"	27,121
"	164	Intersection of Pittwater Rd and Garden St, North Narrabeen	Signals — Site No. 1178	"	943
"	164	Intersection of Pittwater Rd and South Creek Rd, Dee Why	Signals — Site No. 1205	"	745
"	164	Intersection of MR164 and Ocean Grove, Collaroy	Signals — Site No. 1220	"	161
"	164	Intersection of MR164 and Plateau Rd, Avalon	Channelisation	"	4,645
"	164	Intersection of MR164 and Ocean Grove, Collaroy	Roadworks associated with signals — Site No. 1220	Council	605
"	164	Intersection of Pittwater Rd and Waterloo Rd, Narrabeen	Roadworks associated with signals — Site No. 1257	"	8,065
"	164	Intersection of Barrenjoey Rd and Central Rd, Avalon	Signals — Site No. 1218	Department	331
"	164	Intersection of Barrenjoey Rd and Mona Vale Rd, Mona Vale	Signals — Site No. 1049	"	446
"	328	Intersection of Warringah Rd and Beacon Hill Rd, Beacon Hill	Signals — Site No. 1339	"	10,339
"	328	Intersection of Warringah Rd, Currie Rd and Brown St, Forestville	Signals — Site No. 1261	"	516
"	328	Intersection of Warringah Rd and Willandra Rd, Beacon Hill	Signals — Site No. 800	"	1,500
"	397	Intersection of Wakehurst Parkway and Frenchs Forest Rd, Frenchs Forest	Signals — Site No. 848	"	27,700
"	529	Intersection with Adams St, Frenchs Forest	Signals — Site No. 1304	"	25,876
"	529	Forest Way, North of Rabbett St, Frenchs Forest	Pedestrian signals — Site No. P287	"	25,766
"	530	Intersection of Oliver St and Cavill St, Queenscliff	Signals — Site No. 1307	"	28,924
Waverley	172	Campbell Pde near Sir Thomas Mitchell Rd, Bondi	Median extension	Council	618
"	339	Intersection of Old South Head Rd and Dovers Rd, Rose Bay	Signals — Site No. 1265	Department	272
Wellington	353	Coomabella to SH7	Provision of shoulders	Council	5,386
Willoughby	191 & 10	Intersection of Fullers Rd and Pacific Highway, Chatswood	Signal — Site No. 175	Department	28,601
"	373	Mowbray Rd, West Lane Cove	Improvement of intersection	"	6,762*
"	599	Babbage Rd, north of Allen St, East Roseville	Reconstruction of pedestrian signals	"	7,673
"	599	Intersection of Eastern Valley Rd and Smith St, Castle Cove	Signals — Site No. 1295	"	1,265

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) TRUNK AND ORDINARY MAIN ROADS — continued</b>					<b>\$</b>
Willoughby	599	MR164 to MR328	Traffic management and safety projects	Department	34,561
"	599	Intersection of Eastern Valley Way and Robert St, Middle Cove	Signals — Site No. 1356	"	22,069
Windsor	154	Intersection with George St, Windsor	Channelisation	Council	22,620
"	184	Intersection of MR184 and Level Crossing Rd, Mulgrave	Provision of slow vehicle lane	Department	11,596
"	184	Intersection of Windsor Rd and Macquarie St, Windsor	Signals — Site No. 1282	"	2,830
"	184	MR184 and Pitt Town Rd, McGraths Hill	Improvement of intersection for priority road	"	17,704
Wollongong	95	Additional lane, MR513 to F6 at Gwynneville	Signposting and roadmarking	"	6,430
"	185	Lawrence Hargrave Dr — five locations	Provision of bus bays	"	22,592
"	522	Intersection of Shellharbour Rd and Pur Pur Ave, Lake Illawarra	Signals — Site No. 1491	"	7,710
"	522	Intersection of Windang Rd and Boronia Ave, Windang	Signals — Site No. 1372	"	36,564
"	522 & 613	Intersection of King St and Northcliffe Dr, Warrawong	Signals — Site No. 537	"	835
"	568	Spring Hill Rd and Masters Rd, Port Kembla	Right turn lane	Council	22,620
"	568	Spring Hill Rd and Flat Products Entry, Port Kembla	"	"	7,809
"	581	Intersection of Corrimal St and Burrelli St, Wollongong	Signals — Site No. 1172	Department	8,017
Woollahra	173	Intersection of New South Head Rd and Ocean St, Edgecliff	Signals — Site No. 476	"	16,609
"	339	Intersection of Old South Head Rd and Victoria Rd	Channelisation	Council	5,207
Yarrowlumla	51	Queanbeyan to TR79	Reflective delineators on lightweight posts	"	32
<b>Total Trunk and Ordinary Main Roads</b>					<b>2,318,523</b>
<b>(iv) DEVELOPMENTAL ROADS</b>					
Bogan	1163	Bogan Bridge and approaches	Provision of guardrail	Council	1,348
"	1178	Murrawombie Bridge approaches	"	"	578
<b>Total Developmental Roads</b>					<b>1,926</b>
<b>(v) SECONDARY ROADS</b>					
Ashfield	2018	Intersection of Old Canterbury Rd, Hanks St and Victoria St, Ashfield	Reconstruction	Council	9,694
Auburn	2069	Intersection of Rawson St and Northumberland Rd, Auburn	Signals — Site No. 1458	Department	24,341
Bankstown	2068	Intersection of The River Rd, Uranus Rd and Weston St, Revesby	Signals — Site No. 1316	"	15,846
"	2090	Intersection of Juno Pde and Roberts Rd, Greenacre	Signals — Site No. 1448	"	24,279
Baulkham Hills	2084	Intersection of Seven Hills Rd and Jasper Rd, Baulkham Hills	Signals — Site No. 2084	"	548
Blacktown	2084 & 2085	Intersection of Blacktown Rd and Wallpark Ave, Seven Hills	Signals — Site No. 1075	"	767
Burwood	2027	Intersection of Railway Pde and Wentworth Rd, Burwood	Signals — Site No. 1183	"	28,312
Canterbury	2014	Intersection of Beamish St and Brighton Ave, Campsie	Channelisation	Council	1,574
"	2021	Intersection of Homer St and Bayview Ave, Earlwood	Signals — Site No. 1317	Department	22,421
"	2050	Intersection of Belmore Rd and Hannans Rd, Riverwood	Signals — Site No. 995	"	464
Holroyd	2071	Intersection of Merrylands Rd and Betts Rd, Merrylands West	Signals — Site No. 1244	"	13,465
"	2071	Intersection of Betts Rd and Merrylands Rd, Merrylands West	Roadworks associated with signals — Site No. 1244	Council	9,398



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(v) SECONDARY ROADS — continued</b>					<b>\$</b>
Hornsby	2043	Edgeworth David Ave, Myra St and Palmerston Rd, Waitara	Signals — Site No. 1455	Department	102
Hunters Hill	2033	Intersection of Ryde Rd and Gladesville Rd, Hunters Hill	Signals — Site No. 1396	..	71
..	2033	Intersection of Ryde Rd and Park Rd, Boronia Park	Improvement	Council	33,269
Hurstville	2041	Intersection of Stoney Creek Rd and Patrick St, Beverly Hills	Signals — Site No. 1155	Department	500
Lane Cove	2070	Intersection of River Rd West, Longueville Rd and Northwood Rd, Lane Cove	Signals — Site No. 708	..	551
..	2092	Intersection of Mowbray Rd West and Centennial Ave, Lane Cove West	Signals — Site No. 1359	..	26,377
Leichhardt	2042	Intersection of Johnston St and Collins St, Annandale	Signals — Site No. 1407	..	30,939
..	2046 & 2056	Intersection of Lilyfield Rd and Mary St, Leichhardt	Signals — Site No. 1081	..	1,517
..	2073	Intersection of Wigram Rd and Minogue Cres, Glebe	Signals — Site No. 1209	..	248
..	2073	Intersection of Wigram Rd and Minogue Cres, Glebe	Roadworks associated with signals — Site No. 1209	Council	492
..	2073	Intersection of The Crescent, Nelson St and William St, Annandale	Improvement	..	77,554
Liverpool	2071	Intersection of Cabramatta Rd and Orange Grove Rd, Cabramatta	Signals — Site No. 1447	Department	19,546
..	2071 & 808	Intersection of Copeland Rd and Orange Grove Rd, Liverpool	Signals — Site No. 866	..	21,037
Marrickville	2007	Intersection of Gleeson Ave and Burrows Ave, Sydenham	Signals — Site No. 1152	..	2,380
..	2021	Intersection of Marrickville Rd at Gladstone St, Marrickville	Pedestrian signals — Site No. 1414	..	8,334
North Sydney	2019	Intersection of Ben Boyd Rd and Kurraba Rd, Neutral Bay	Signals — Site No. 1162	..	2,335
..	2036	Intersection of Young St and Belgrave St, Cremorne	Signals — Site No. 2610	..	1,128
Parramatta	2066	Intersection of Argyle St and O'Connell St, Parramatta	Signals — Site No. 889	..	18,526
..	2066	Intersection of Albert St and O'Connell St, Parramatta	Signals — Site No. 1450	..	8,158
..	2066	Intersection of Macquarie St and O'Connell St, Parramatta	Signals — Site No. 1065	..	621
..	2066	Intersection of Campbell St and Marsden St, Parramatta	Signals — Site No. 1098	..	616
Randwick	2074	North of Rainbow St, Kensington	Pedestrian signals — Site No. 1216	..	469
Rockdale	2079 & 2032	Intersection of West Botany St and President Ave, Kogarah	Signals and modified channelisation — Site No. 2597	..	12,951
Ryde	2024	Intersection of Balaclava Rd, Corunna Rd and North Rd, Eastwood	Signals — Site No. 1475	..	22
..	2081	Intersection of SR2081 and Shaftsbury Rd, Eastwood	Channelisation	Council	29,083
South Sydney	2005	Intersection of Mitchell Rd and Copeland St, Erskineville	Signals — Site No. 1340	Department	280
..	2005	Intersection of Mitchell Rd and Buckland St, Alexandria	Signals — Site No. 141	..	18,410
..	2008	Joyce Dr and O'Riordan St — full length	Raised reflective pavement marking	..	1,303
..	2077	Intersection of Abercrombie St, Lawson St and Ivy St, Chippendale	Signals — Site No. 1141	..	1,039
..	2083	Intersection of Elizabeth St and Wellington St, Waterloo	Signals — Site No. 921	..	16,868
Strathfield	2087	Intersection of Pemberton St and Barker Rd, Strathfield	Signals — Site No. 1163	..	631
Sutherland	2075	Intersection of President Ave and Kareena Rd, Caringbah	Signals — Site No. 1219	..	621
..	2075	Intersection of Captain Cook Dr and Cawarra Rd, Caringbah	Signals — Site No. 567	..	24,814

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(v) SECONDARY ROADS — continued</b>					<b>\$</b>
Sutherland	2075	President Ave, West of Park Lane, Caringbah	Signals — Site No. 1190	Department	619
"	2075	Intersection of President Ave and Wandella Rd, Miranda	Signals — Site No. 1251	"	12,647
"	2075	Intersection of The Boulevard and Wandella Rd, Miranda	Channelisation	Council	9,694
Willoughby	2092	Intersection of Mowbray Rd and Archer St, Chatswood	Signals — Site No. 1296	Department	772
"	2092 & 2093	Intersection of Mowbray Rd and Alpha Rd, Willoughby	Signals — Site No. 1151	"	561
"	2092	Intersection of Sydney St and Mowbray Rd, Willoughby	Signals — Site No. 1044	"	246
"	2093	Brook St to On and Off Ramps, Warringah Freeway Extension	Signals — Site No. 1337	"	38,637
"	2093	Penshurst St, from Ashley St to Eden St, Chatswood	Reconstruction of kerb, gutter and eastern shoulders	Council	37,232
<b>Total Secondary Roads</b>					<b>612,309</b>
 <b>(vi) ROADS OTHER THAN MAIN ROADS</b>					
Albury		Intersection of Smollett St and Olive St, Albury South	Signals — Site No. 1510	Department	7,135
Armidale City		Rusden St and Dangar St, Armidale	Provision of additional lanes at intersection	Council	26,928
"		Rusden St and Faulkner St, Armidale	Improvement of capacity of intersection	"	26,928
Ashfield		Eastern and western ends of Graham Reserve in Palace St, Ashfield	Guardrail inside kerblines around roadside objects	"	779
"		Intersection of Queen St and Arthur St, Ashfield	"	"	173
"		Intersection of Holden St and Arthur St, Ashfield	"	"	404
Auburn		South Pde, Auburn	Pedestrian overbridge	Department	3,295
Bankstown		Intersection of Marion St and William St, Condell Park	Signals — Site No. 997	"	1,753
"		Intersection of Marion St and Olympic Pde, Bankstown	Signals — Site No. 1002	"	28,403
"		Intersection of Underwood Rd and Pomeroy St, Homebush	Signals — Site No. 1456	"	22,926
"		Intersection of Waterloo Rd and Mimosa Rd, Greenacre	Signals — Site No. 1461	"	21,457
Baulkham Hills		North Rocks Rd, east of Barclay Rd, North Rocks	Signals — Site No. 1204	"	244
"		North Rocks Rd — Oaks Rd to Pennant Hills Rd, Carlingford	Widening	Council	22,620
Blacktown		Intersection of Lancaster St and Newton Rd, Blacktown	Signals — Site No. 1247	Department	5,072
"		Patrick St between Alpha St and Kildare St, Blacktown	Signals — Site No. 310	"	14,267
"		Intersection of Johnson Ave and Northcoate Rd, Lalor Park	Improvement	Council	11,849
"		Intersection of Sunnyholt Rd and Sackville Rd, Blacktown	Roadworks associated with signals — Site No. 1324	"	2,163
"		Intersection of Sunnyholt Rd, Sackville St and Fifth Ave, Blacktown	Signals — Site No. 1324	Department	13,036
"		Intersection of Newton St and Balmoral St, Blacktown	Signals — Site No. 1123	"	609
"		Intersection of Main St and Flushcombe Rd, Blacktown	Signals — Site No. 890	"	1,208
Bombala		Intersection of Plunkett St and Iris St, Bombala	Street lighting	Council	151
Booiooroo		Milroy Rd, 2.0 km west of SH17	Realignment of short section	"	851
Boomi		Caidmurra Bridge (Morialta Rd), 16.4 km north of SH12	Guardrail on bridge approaches	"	59
Boree		Paytens Bridge on Eugowra Rd	"	"	1,804

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(vi) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Botany	Intersection of Foreshore Rd and Fremlin St, Botany	Signals — Site No. 1549	Department	518
"	Intersection of King St and Sutherland St, Mascot	Signals — Site No. 1423	"	28,305
"	Intersection of Coward St and Maloney St, Mascot	Signals — Site No. 1424	"	22,552
Canterbury	Bayview Ave, Earlwood	Improvement of skid resistance	Council	11,310
"	Selected lengths on Bayview Ave, Earlwood	Improvement of skid resistance	"	33
"	Intersection of Burwood Rd and Leyland Rd, Belmore	Additional lane	"	878
"	Intersection of Haldon St and The Boulevarde, Lakemba	Signals — Site No. 1299	Department	2,006
Cobar	Blakey St, Cobar	Provision of bus bay	Council	597
Colo	Bells Rd and Grose Vale Rd, Colo	Alignment and visibility improvement	"	16,157
Cooma	Church Rd, Cooma	Sealing of shoulders	"	7,728
Drummoynes	Intersection of Henley Marine Dr, Arthur St and Timbrell Dr	Channelisation	"	21,543
Dungog	Wangat Rd, 1.8 km north of Dungog	Widening and bituminous surfacing of shoulders on crests	"	1,811
Fairfield	Intersection of The Boulevarde and Avenel St, Fairfield	Sealing of shoulder on curve	"	1,594*
"	Intersection of Railway Pde and Frederick St, Fairfield	Passing lane	"	1,594
"	Intersection of Fairfield Rd and Dursley Rd, Fairfield	Signals — Site No. 1084	Department	360
"	Intersection of Hamilton St and The Boulevarde, Fairfield Heights	Signals — Site No. 1478	"	28,683
Gloucester	Intersection of Barrington East Rd and Walcha Rd (Gloucester-Nowendoc Rd)	Improvement of sight distance	Council	955*
Goulburn City	Howard Boulevarde and McDermott Dr	Provision of median strip	"	520
Hastings	Unclassified road at Bago, 7.0 km south of Wauchope	Guardrail on curve	"	530
Holroyd	Intersection of Fairfield Rd and Woodpark Rd, Guildford	Signals — Site No. 1145	Department	922
"	Intersection of Merrylands Rd and Treves St, Merrylands	Signals — Site No. 1245	"	4,503
"	Merrylands Rd east of Cumberland Rd, Greystanes	Signals — Site No. 1559	"	8,090
"	Intersection of Merrylands Rd and Cumberland Rd, Greystanes	Signals — Site No. 1476	"	33,435
"	Intersection of Merrylands Rd and Treves St, Merrylands	Roadworks associated with signals — Site No. 1245	Council	3,572
"	Intersection of Old Prospect Rd and Ettalong Rd, Greystanes	Roadworks associated with signals — Site No. 1345	"	1,176
"	Intersection of Merrylands Rd and Chetwynd Rd, Merrylands	Roadworks associated with signals — Site No. 1246	"	5,817
"	Intersection of Merrylands Rd, Lockwood St and Chetwynd Rd, Merrylands	Signals — Site No. 1246	Department	21,133
"	Intersection of Old Prospect Rd and Ettalong Rd, Greystanes	Pedestrian signals — Site No. 1345	"	11,858
Hornsby	Yarrara Rd, north east of Hillcrest Rd, Pennant Hills	Pedestrian signals — Site No. 1460	"	62
Hunters Hill	Woolwich Rd, east of Gladstone Ave, Woolwich	Pedestrian signals — Site No. 1420	"	7,214
Hurstville	Intersection of Bonds Rd and Talbot Rd, Riverwood	Channelisation	Council	2,269
"	Intersection of Boundary Rd, Woronora Pde and Pitt St, Mortdale	"	"	5,386
Inverell	Ring St and Bannockburn Rd, Inverell	Additional lanes at intersection	"	210
Jemalong	Back Marsden Road	Sealing of pavement on shoulders	"	534*
Ku-ring-gai	Archer St from Ashley St to Nicholson St, Chatswood	Reconstruction of shoulders	"	54,575

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(vi) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Ku-ring-gai	Intersection of Comenarra Parkway and Kissing Point Rd, Turramurra	Signals — Site No. 1072	Department	289
"	Intersection of Fox Valley Rd and The Comenarra Parkway, Fox Valley	Signals — Site No. 1310	"	1,399
Lane Cove	Intersection of Longueville Rd and Burns Bay Rd, Lane Cove	Pedestrian signals — Site No. 1429	"	1,417
Leichhardt	Intersection of Bridge Rd and Ross St, Forest Lodge	Signals — Site No. 2	"	17,411
Liverpool	Intersection of Bigge St and Elizabeth St, Liverpool	Signals — Site No. 1444	"	20,252
"	Intersection of George St and Moore St, Liverpool	Signals — Site No. 1482	"	29,347
"	Intersection of George St and Railway St, Liverpool	Signals — Site No. 1017	"	1,087
"	Intersection of George St and Elizabeth St, Liverpool	Signals — Site No. 1004	"	379
Manly	Battle Boulevarde from Manly Rd to Seaforth Cres	Widening	Council	58,803
Marrickville	Intersection of Marrickville Rd and Petersham Rd, Marrickville	Signals — Site No. 1153	Department	27,863
"	Intersection of Marrickville Rd and Petersham Rd, Marrickville	Roadworks associated with signals — Site No. 1153	Council	249
"	Intersection of Unwins Bridge Rd and Mary St, St Peters	Channelisation	"	1,185
"	Intersection of Unwins Bridge Rd and Mary St, St Peters	Signals — Site No. 1416	Department	23,010
Monaro	Cooma to Shannons Flat Rd	Guardrail on bridge approaches	Council	90
Moree	Intersection of Albert St and Warialola St, Moree	Improvement of visibility	"	4,416
North Sydney	Intersection of Murdoch St and Rangers Rd, Cremorne	Signals — Site No. 1354	Department	26,108
"	Intersection of Murdoch St and Rangers Rd, Cremorne	Channelisation	Council	16,157
"	Various sites	"	"	41,179
"	Intersection of Ernest St and Alexander St, Crows Nest	Signals — Site No. 1306	Department	6,900
Parramatta	Intersection of Macquarie St and Smith St, Parramatta	Signals — Site No. 1102	"	24,495
"	Intersection of Clyde St and Mona St, Granville	Signals — Site No. 1325	"	578
"	Intersection of Dunmore St and Station St, Wentworthville	Signals — Site No. 1327	"	26,744
"	Intersection of Railway Pde and Bold St, Granville	Signals — Site No. 1328	"	43,910
"	Intersection of Marsden St and Macquarie St, Parramatta	Signals — Site No. 1095	"	24
"	Intersection of Marsden St and George St, Parramatta	Signals — Site No. 1093	"	767
Penrith	Intersection of Racecourse Rd and Jamieson St, Penrith	Improvement of visibility	Council	32,314
Port Stephens	Soldiers Point Rd, 0.5 km south of Soldiers Point	Realignment of short section	"	3,700
Queanbeyan	Thorpe Ave and Hayes St, Queanbeyan	Provision of storage lanes and improvement to intersections	"	10,771
Quirindi	Hill St, Quirindi	Raising of level of pavement to improve visibility	"	108
Randwick	Intersection of Todman Ave and Lenthall St, Kensington	Channelisation	"	737
"	Intersection of Darley Rd and York Rd, Randwick	Signals — Site No. 1041	Department	28
"	Intersection of Alison Rd and Carrington Rd, Randwick	Signals — Site No. 1158	"	24,646
"	Frenchmans Rd, Cowper St and Avoca St, Randwick	Reconstruction and widening	Council	45
"	Intersection of Malabar Rd and Maroubra Rd, Rosebery	Modification of existing channelisation	"	1,090



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(B) Summary of Payments for Construction and Reconstruction Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(vi) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Shellharbour	Central Ave and The Boulevarde, Oak Flats	Conversion of cross intersection to "T" junction	Council	4,227
Shoalhaven	Various bridge approaches — six locations	Guardrail on bridge approaches	Department	28,246
"	Intersection of Junction St and Kingshore St, Nowra	Signals — Site No. 1373	"	25,731
Singleton	Mirrannie Rd and Carrowbrook Rd, Singleton	Reflective delineators on lightweight posts	Council	299
South Sydney	Intersection of Moorehead St and Phillip St, Redfern	Signals — Site No. 1212	Department	817
"	Intersection of Huntley St and Euston Rd, Alexandria	Signals — Site No. 1300	"	1,287
Strathfield	Intersection of Homebush Rd and Redmyre Rd, Strathfield	Roadworks associated with signals — Site No. 1070	Council	2,673
Sutherland	Intersection of The Boulevarde and Wandella Rd, Miranda	Signals — Site No. 1374	Department	24,033
"	Station, Cronulla St, Cronulla	Pedestrian signals — Site No. 1347	"	8,836
"	Station, Cronulla St, Cronulla	Roadworks associated with pedestrian signals — Site No. 1347	Council	2,517
Sydney	Intersection of William Henry St and Bulwarra Rd, Ultimo	Signals — Site Nos. 1346 and 520	Department	8,495
"	Intersection of Sir John Young Cres and Cahill Expressway, Woolloomooloo	Reconstruction of signals — Site No. 211	"	7,832
"	Intersection of Harris St and Ultimo Rd, Ultimo	Signals — Site No. 1418	"	28,315
"	Liverpool St from Elizabeth St to College St, Sydney	Concrete median	Council	381
"	Intersection of Market St between Clarence St and York St, Sydney	Channelisation	"	32,314
Talbragar	Westella Rd and Plain Creek Rd	Elimination of intersection	"	143
Tweed	Cobaki Bridge	Guardrail on bridge approaches	"	129
Wagga Wagga	Intersection of Bourke St and Fernleigh St, Wagga Wagga	Signals — Site No. 1193	Department	20,055
Warringham	Intersection of Willandra Rd and McIntosh Rd, Beacon Hill	Reconstruction	Council	2,808
"	Intersection of Willandra Rd, Lee Rd and Tristram Rd, Beacon Hill	Roadworks associated with signals — Site No. 1351	"	581
"	Intersection of Hakea Ave and Ashworth Ave, Belrose	Channelisation	"	955*
"	Intersection of Willandra Rd, Tristram Rd and Lee Rd, Beacon Hill	Signals — Site No. 1351	Department	21,921
"	Intersection of Old Pittwater Rd and Beacon Hill Rd, Brookvale	Signals and modified channelisation — Site No. 2608	"	34,483
Waverley	Intersection of Birrell St and Newland St, Bondi Junction	Signals and roadworks — Site No. 1421	"	26,170
"	Intersection of Fletcher St and Farrellys Ave, Waverley	Reconstruction	Council	5,810
"	Intersection of Newland St and Birrell St, Bondi Junction	Channelisation	"	3,770
"	Intersection of Blair St, Wairoa Ave and Wallis Pde, North Bondi	Reconstruction	"	9
"	Wellington St, North of Bondi Rd, Bondi	Pedestrian signals — Site No. 1520	Department	10,555
Wentworth	Unclassified road intersections at Pomona (2), Wentworth (1), Curlwaa (7)	Visibility improvements at intersections	Council	385
Willoughby	Intersection of Archer St and Kirk St, Chatswood	Pedestrian signals — Site No. P270	Department	373
"	Intersection of Brook St and Warringham Freeway Exit, Narremburn	Signals — Site No. 1362	"	509
"	Penshurst St from Lea Ave to Laurel St, Willoughby	Reconstruction and widening of west side	Council	4,847
Windsor	Kurmond Rd and Gorriks Lane, Wilberforce	Short realignment and visibility improvement	"	24,774
Wingecarribee	Thosby St, Moss Vale	Provision of guardrail	"	10,771
Wollondilly	Thirlmere to Mittagong Rd	Realignment of short section	"	106,846

\* Credit

**APPENDIX No. 11 — continued  
TRAFFIC FACILITIES FUND**

**(B) Summary of Payments for Construction and Reconstruction Works**

<b>City, Municipal or Shire Area</b>	<b>Location of Work</b>	<b>Class of Construction</b>	<b>Constructing Authority</b>	<b>Amount 1977/78</b>
<b>(vi) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Wollongong	Intersection of Corrimal St and Crown St, Wollongong	Signals — Site No. 218	Department	7,733
"	Carters Lane and Pioneer Rd, Towradgi	Channelisation	Council	15,619
"	Market St, Thomas St and Church St, Wollongong	Channelisation	"	7,540
"	Intersection of Kembla St and Bourke St, North Wollongong	Signals — Site No. 1371	Department	8,292
"	Intersection of Bridge St and Gladstone Ave, Coniston	Signals — Site No. 1210	"	24,638
Woolahra	Intersection of Ocean St and bus ramps, Edgecliffe	Signals — Site No. 480	"	277
"	Intersection of Queen St and Moncur St, Woolahra	Signals — Site No. 906	"	25,445
"	Intersection of Edgecliff Rd and Grosvenor St, Bondi Junction	Signals — Site No. 1368	"	27,743
"	Intersection of Edgecliff Rd and Junction St, Bondi Junction	Signals — Site No. 1523	"	10,754
"	Intersection of Glenmore Rd and Hargrave St, Paddington	Channelisation	Council	1,422*
"	Various locations	Signals reconstruction by direct control	Department	12,500
"	(Miscellaneous, minor works, etc.)	Guardrail around roadside objects	"	2,192
"	"	Improvement of intersections	"	19,322
<b>Total Roads other than Main Roads</b>				<b>1,572,296</b>
<b>TOTAL</b>				<b>7,279,279</b>

\* Credit

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(C) Summary of Payments for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(I) FREEWAYS</b>					<b>\$</b>
<b>Warringah Freeway</b>					
Sydney	F1	Sydney Harbour Bridge	Tow truck service	Department	950,922
<b>Sydney to Newcastle Freeway</b>					
Hornsby					
Gosford	F3	Berowra to Calga Tollwork	"	"	123,000
<b>Southern Freeway</b>					
Wollongong	F6	Waterfall to Bulli Pass Tollwork	"	"	107,337
"	F6	"	Cost of operation of driver and scheme	"	58,621
<b>Total Freeways</b>					<b>1,239,880</b>
<b>(II) MAIN ROADS</b>					
<b>Warringah</b>					
Ku-ring-gai	328	Roseville Bridge	Tow truck service	Department	79,520
<b>Total Main Roads</b>					<b>79,520</b>
<b>(III) ROADS OTHER THAN MAIN ROADS</b>					
Abercrombie		Classified and unclassified roads	Signposting and roadmarking	Council	178
Albury		"	Signals maintenance	"	9,675
"		"	Signposting and roadmarking	"	5,416
Armidale City		"	"	"	4,865
Ashfield		"	"	"	83
Ashford		"	"	"	1,940
Auburn		"	"	"	1,593
Ballina		"	"	"	2,642
"		"	Signals maintenance	"	517
Bairnald		"	Signposting and roadmarking	"	3,608
Bankstown		"	Signals maintenance	"	35*
"		"	Signposting and roadmarking	"	7,674
Barraba		"	"	"	2,160
Bathurst City		Unclassified roads	Signposting and roadmarking by Council	"	41
"		Classified and unclassified roads	Signals maintenance	"	1,280
"		"	Signposting and roadmarking	"	7,190
Baulkham Hills		"	"	"	1,910
Bega		"	"	"	1,945
Bellingen		"	"	"	1,410
Berrigan		"	"	"	6,878
Bibbenluke		"	"	"	1,186
Bingara		"	"	"	846
"		"	Signals maintenance	"	16
Blacktown		"	Signposting and roadmarking	"	105
Blayney		"	"	"	362
Bland		"	"	"	407
Blue Mountains		"	"	"	48
"		"	Signals maintenance	"	83
"		"	Signposting and roadmarking	"	3,921
Bogan		"	"	"	2,561
Bombala		"	"	"	1,243
Boolooroo		"	"	"	1,520
Boomi		"	"	"	2,013
Boorowa		"	"	"	1,013
Boree		"	"	"	5,133
Botany		"	"	"	81
Bourke		"	"	"	6,324
Bowral		"	"	"	197
Brewarrina		"	"	"	5,313
Broken Hill		"	Signals maintenance	"	4,728
"		"	Signposting and roadmarking	"	19,179
Burrangong		"	"	"	562
Burwood		"	"	"	360
Byron		"	"	"	1,405
* Credit					

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(C) Summary of Payments for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(III) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Cabonne	Classified and unclassified roads	Signposting and roadmarking	Council	4,113
Camden	"	Signals maintenance	"	789
"	"	Signposting and roadmarking	"	401
Campbelltown	"	"	"	1,352
"	"	Signals maintenance	"	39
Canobolas	"	Signposting and roadmarking	"	1,693
Canterbury	"	Signals maintenance	"	161
"	"	Signposting and roadmarking	"	480
Carrathool	"	"	"	9,548
Casino	"	"	"	3,675
Central Darling	"	"	"	2,614
Cobar	"	"	"	10,438
Coffs Harbour	"	Signals maintenance	"	1,501
"	"	Signposting and roadmarking	"	4,046
Colo	"	"	"	10
Conargo	"	"	"	4,993
Concord	"	"	"	25
Condobolin	"	"	"	52
Coolah	"	"	"	1,830
Coolamon	"	"	"	1,778
Cooma	"	"	"	4,551
Coonabarabran	"	"	"	4,470
Coonamble	"	"	"	6,414
Cootamundra	"	"	"	6,608
Copmanhurst	"	"	"	2,153
Corowa	"	"	"	3,552
Cowra	"	"	"	2,256
"	"	Signals maintenance	"	24
Crookwell	"	Signposting and roadmarking	"	1,678
Culcairn	"	"	"	727
Deniliquin	"	"	"	2,267
Denman	"	"	"	212
Drummoyne	"	"	"	397
Dubbo	"	"	"	8,741
"	"	Signals maintenance	"	5,330
Dumaresq	"	Signposting and roadmarking	"	2,081
Dungog	"	"	"	6,769
Eurobodalla	"	"	"	1,537
"	"	Signals maintenance	"	65
Fairfield	"	Signposting and roadmarking	"	1,224
Forbes	"	Signals maintenance	"	97
"	"	Signposting and roadmarking	"	3,524
Gilgandra	"	"	"	2,690
Glen Innes	"	"	"	2,907
"	"	Signals maintenance	"	80
Gloucester	"	Signposting and roadmarking	"	1,369
Goobang	"	"	"	8,999
Goodradigbee	"	"	"	812
Gosford	"	"	"	182
Goulburn City	"	"	"	34,790
Grafton City	"	"	"	3,400
Great Lakes	"	"	"	6,500
Greater Cessnock	"	"	"	4,189
Gundagai	"	"	"	1,617
Gundurimba	"	"	"	70
Gunnedah	"	"	"	4,007
"	"	Signals maintenance	"	627
Gunning	"	Signposting and roadmarking	"	3,223
Guyra	"	"	"	860
Harden	"	"	"	1,256
Hastings	"	"	"	4,836
Hay	"	"	"	2,907
Holbrook	"	"	"	106
Holroyd	"	"	"	53
Hornsby	"	"	"	3,530
"	"	Signals maintenance	"	1,243



**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

**(C) Summary of Payments for Maintenance and Minor Improvement Works**

<b>City, Municipal or Shire Area</b>	<b>Location of Work</b>	<b>Class of Construction</b>	<b>Constructing Authority</b>	<b>Amount 1977/78</b>
<b>(iii) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Hume	Classified and unclassified roads	Signposting and roadmarking	Council	93
Hunters Hill	"	"	"	16
Hurstville	"	"	"	161
Illabo	"	"	"	56
Imlay	"	"	"	1,911
Inverell	"	"	"	6,115
"	"	Signals maintenance	"	23
Jemalong	"	Signposting and roadmarking	"	7,616
Jerilderie	"	"	"	3,774
Junee	"	"	"	7
Kempsey	"	"	"	13,024
"	"	Signals maintenance	"	102
Kiama	"	Signposting and roadmarking	"	1,656
Kogarah	"	"	"	13
Ku-ring-gai	"	"	"	543
Kyeamba	"	"	"	360
Kyogle	"	"	"	1,883
Lachlan	"	"	"	8,926
Lake Macquarie	"	"	"	14,597
"	"	Signals maintenance	"	231
Lane Cove	"	Signposting and roadmarking	"	69
Leeton	"	"	"	2,220
Leichhardt	"	"	"	1,329
Lismore	"	"	"	13,254
"	"	Signals maintenance	"	259
Lithgow	"	"	"	1,145
"	"	Signposting and roadmarking	"	2,528
Liverpool	"	"	"	333
Liverpool Plains	"	"	"	988
Lockhart	"	"	"	999
Lyndhurst	"	"	"	7,492
Macintyre	"	"	"	5,409
Maclean	"	"	"	3,354
Maitland	"	"	"	2,652
Manilla	"	"	"	2,388
Manly	"	"	"	274
Manning	Unclassified roads	"	"	239
"	Classified and unclassified roads	"	"	2,948
"	"	Signals maintenance	"	41
Marrickville	"	Signposting and roadmarking	"	419
Merrima	"	"	"	2,750
Mitchell	"	"	"	62
Mittagong	"	"	"	2,878
Molong	"	"	"	2,813
Moree	"	"	"	2,453
"	"	Signals maintenance	"	8
Mosman	"	Signposting and roadmarking	"	252
Mudgee	"	Signals maintenance	"	61
"	"	Signposting and roadmarking	"	1,728
Mullumbimby	"	"	"	292
Mulwaree	"	"	"	3,003
Mumbulla	"	"	"	919
Murray	"	"	"	1,907
Murrumbidgee	"	"	"	639
Murrumbidgee	"	"	"	1,491
Muswellbrook	"	"	"	866
Nambucca	"	"	"	1,937
"	"	Signals maintenance	"	78
Namoi	"	Signposting and roadmarking	"	1,802
Narrabri	"	"	"	1,720
Narraburra	"	"	"	103
Narrandera	"	"	"	646
Narromine	"	"	"	938
Newcastle	"	Signals maintenance	"	1,857
"	"	Signposting and roadmarking	"	11,619
North Sydney	"	"	"	874
Nundle	"	"	"	163

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(C) Summary of Payments for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Nymboida	Classified and unclassified roads	Signposting and roadmarking	Council	1,931
Oberon	"	"	"	2,361
Orange	"	"	"	6,404
"	"	Signals maintenance	"	7,455
Parkes	"	"	"	194
"	"	Signposting and roadmarking	"	1,545
Parramatta	"	"	"	374
Parry	"	"	"	2,892
Penrith	"	"	"	168
Port Macquarie	"	"	"	2,052
Port Stephens	"	Signals maintenance	"	97
"	"	Signposting and roadmarking	"	8,055
Queanbeyan	"	"	"	4,869
Quirindi	"	"	"	612
Randwick	"	"	"	178
Richmond River	"	"	"	3,314
Rockdale	"	"	"	32
Ryde	"	"	"	1,636
Rylstone	"	"	"	454
Scone	"	"	"	4,781
Severn	"	"	"	778
Shellharbour	"	"	"	153
Shoalhaven	"	"	"	3,959
"	"	Signals maintenance	"	1,449
Singleton	"	Signposting and roadmarking	"	3,095
Snowy River	"	"	"	480
South Sydney	"	"	"	143
Strathfield	"	"	"	137
Sutherland	"	"	"	515
Sydney	"	"	"	2,248
"	City Area	Tow service	Department	11,844
"	Classified and unclassified roads	Signals maintenance	Council	310
Talbragar	"	Signposting and roadmarking	"	4,205
Tallaganda	"	"	"	2,225
Tamarang	"	"	"	1,155
Tamworth	"	"	"	4,170
"	"	Signals maintenance	"	1,386
Taree	"	"	"	341
"	"	Signposting and roadmarking	"	1,738
Temora	"	"	"	1,909
Tenterfield	"	"	"	3,163
Timbregongie	"	"	"	4,040
Tumbarumba	"	"	"	657
Tumut	"	Signals maintenance	"	75
"	"	Signposting and roadmarking	"	1,733
Turon	"	"	"	18
Tweed	"	"	"	1,661
"	"	Signals maintenance	"	166
Ulmarra	"	Signposting and roadmarking	"	882
Uralla	"	"	"	710
Wade	"	"	"	4,595
Wagga Wagga	"	Signals maintenance	"	14,099
"	"	Signposting and roadmarking	"	42,812
Wakool	"	"	"	20,771
Walcha	"	"	"	60
Walgett	"	"	"	14,787
Warren	"	"	"	2,681
Warringham	"	"	"	302
Waugoola	"	"	"	2,667
Waverley	"	"	"	294
Weddin	"	"	"	6,304
Wellington	"	"	"	13,302
Wentworth	"	"	"	2,004
Willoughby	"	"	"	211
Windouran	"	"	"	1,270
Windsor	"	"	"	1,561
Wingham	"	"	"	858

**APPENDIX No. 11 — continued**  
**TRAFFIC FACILITIES FUND**

(C) Summary of Payments for Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1977/78
<b>(iii) ROADS OTHER THAN MAIN ROADS — continued</b>				<b>\$</b>
Wingecaribee	Classified and unclassified roads	Signposting and roadmarking	Council	828
Wollondilly	"	"	"	2,597
"	"	Signals maintenance	"	126
Wollongong	"	"	"	6,848
"	"	Signposting and roadmarking	"	7,364
Woollahra	"	"	"	643
"	"	Signals maintenance	"	1,688
Wyong	"	"	"	124
"	"	Signposting and roadmarking	"	3,416
Yallaro	"	"	"	4,819
Yarrowluma	"	"	"	3,840
Yass	"	"	"	1,614
Young	"	"	"	2,382
<b>(iv) DIVISIONS</b>				
Metropolitan	Classified and unclassified roads	Signposting and roadmarking	Department	1,706,376
"	"	Signals maintenance	"	2,684,943
Illawarra	"	Signposting and roadmarking	"	587,979
"	"	Signals maintenance	"	114,387
Parramatta	"	Signposting and roadmarking	"	1,764,125
"	"	Signals maintenance	"	1,287,172
Hunter Valley	"	Signposting and roadmarking	"	657,692
"	"	Signals maintenance	"	348,742
North Western	"	Signposting and roadmarking	"	134,759
"	"	Signals maintenance	"	2,227
Upper Northern	"	Signposting and roadmarking	"	71,665
"	"	Signals maintenance	"	39
North Eastern	"	Signposting and roadmarking	"	313,777
"	"	Signals maintenance	"	841
Southern	"	Signposting and roadmarking	"	46,465
"	"	Signals maintenance	"	5,542
South Coast	"	Signposting and roadmarking	"	173,040
South Western	"	"	"	212,982
"	"	Signals maintenance	"	63
Central Murray	"	Signposting and roadmarking	"	203,712
Central Western	"	"	"	391,575
"	"	Signals maintenance	"	1,174
Murray Darling	"	Signposting and roadmarking	"	95,667
Central Northern	"	"	"	161,044
Lower North Coast	"	"	"	198,530
Central Mountains	"	"	"	406,951
"	"	Signals maintenance	"	2,649
Inner Freeways	"	Signposting and roadmarking	"	3,583
Traffic offices	"	"	"	2,113*
"	"	Signals maintenance	"	468,499*
"	Development group, Brisbane St. Sydney	Operation of co-ordinated traffic signals	"	654,130
"	"	Supply of materials for signal maintenance	"	128,924
"	"	Salaries and expenses	"	421,172
"	"	Relocation to No. 1 Oxford St	"	104,027
"	"	Rental of premises at No. 1 Oxford St	"	60,280
"	Ex Department of			
"	Motor Transport radio	Operation	"	17,660
"	"	Removal and relocation	"	11,373
"	Engineering administration	"	"	985,513
"	General administration	"	"	1,098,862
<b>Total Roads other than Main Roads</b>				<b>15,335,796</b>
<b>TOTAL</b>				<b>16,655,196</b>

**SUMMARY**

A. Construction and maintenance of national highways .....	1,687,989	
B. Construction and reconstruction .....	7,279,279	
C. Maintenance and minor improvements .....	16,655,196	25,622,464
Planning and research .....		150
Transfer of Department of Motor Transport organisation to Department of Main Roads .....		323,746
<b>Total as shown in receipts and payments statement — Appendix No. 1(E) .....</b>		<b>25,946,360</b>

# **APPENDIX No. 12 PROCLAMATION OF MAIN ROADS 1977-78**

During the year the following new Main Roads or amendments to existing Main Roads were Proclaimed

City, Municipal or Shire Area	Road No.	Date of Proclamation	Description
Merriwa, Coolah and Scone	62	22.7.77	By Government Gazette No. 82 of 22 July, 1977 the proclamation of TR62 was amended to exclude that part between Cassilis and Coolah and proclaim part of MR214 and Developmental Road 1304 between Cassilis and TR55 near Craboon as part of TR62.
Merriwa and Mudgee	214	22.7.77	By Government Gazette No. 82 of 22 July, 1977 the proclamation of MR214 was amended to exclude a section approximately 8 km south west of Cassilis which is now part of TR62.
Merriwa and Coolah	618	22.7.77	By Government Gazette No. 82 of 22 July, 1977 MR618 was proclaimed, from the Merriwa-Craboon Road (TR62) near Cassilis to the Craboon-Mullaley Road (TR55) at Coolah, a length of approximately 37 km. This was previously part of TR62.
Bibbenluke	19	2.12.77	By Government Gazette No. 147 of 2 December, 1977 the proclamation of SH19 was amended to exclude that part from Bombala via Delegate to the Victorian Border and proclaim that part of TR93 from the Victorian Border via Rockton to Bombala as part of SH19.
Bibbenluke	93	2.12.77	By Government Gazette No. 147 of 2 December, 1977 the proclamation of TR93 was amended to exclude the route from Bombala via Rockton to the Victorian Border and proclaim the route from the Monaro Highway (SH19) near Bombala via Delegate to the Victorian Border as TR93.
Goodradigbee	84	2.12.77	By Government Gazette No. 147 of 2 December, 1977 the proclamation of TR84 was amended to read — From the Hume Highway (SH2) east of Bowning via Bowning, Binalong, Harden, Murrumburrah, Wallendbeen and Stockinbingal to the Wyalong-Old Junee Road (TR57) at Temora.
Bourke	429	27.1.78	By Government Gazette No. 13 of 27 January, 1978 the proclamation of MR429 was amended to exclude that part on the western side of the Paroo River between MR405 at Wanaaring to Willara Crossing and proclaim the former route of Developmental Road 1316 as part of MR429.
Newcastle	188	3.2.78	By Government Gazette No. 15 of 3 February, 1978 the proclamation of MR188 was amended to read as follows: From the intersection of King Street (SH10A) and Darby Street, Newcastle, via Darby Street, Glebe Road, St. James Road, Royal Street and Royal Place to Lambton Road (MR223) at New Lambton, thence from the intersection of Alma Road (MR223) and Lambton Road, via Lambton Road, Howe Street, Durham Road, Karoola Road and Lloyd Road to Newcastle Road (TR82) at North Lambton, thence from the intersection of Newcastle Road (TR82) and Lambton Road, via Lambton Road, Edith Street and Loma Street to Maud Street (MR605) at Waratah West.
City of Sydney	173	10.3.78	By Government Gazette No. 31 of 10 March, 1978 the proclamation of MR173 was amended to exclude part of Bayswater Road, Kings Cross and proclaim the route of MR173 via Kings Cross Tunnel.
Walgett	426	4.4.78	By Government Gazette No. 43 of 21 April, 1978 the proclamation of MR426 was amended to read as follows: The road from the Castlereagh Highway (SH18) at a point approximately 72 km north of Walgett to Lightning Ridge, a length of about 6 km within the Shire of Walgett.
Gundagai and Tumut	279	21.4.78	By Government Gazette No. 43 of 21 April, 1978 the proclamation of MR279 was amended to read as follows: From the Snowy Mountains Highway (SH4) at Tumut generally northerly, via Gocup and Minjary to South Gundagai and thence via Mount Street and Sheridan Street to the Hume Highway (SH2) at Gundagai with a branch from the railway level crossing near South Gundagai generally southerly and westerly to the Hume Highway at Jessops Cutting.



**APPENDIX No. 12A  
PROCLAMATION OF TOURIST ROADS 1977-78**

During the year the following Tourist Roads were proclaimed

City Municipal or Shire Area	Road No.	Date of Proclamation	Description
Snowy River	4056	12.8.77	By Government Gazette No. 89 of 12 August, 1977 Developmental Road 1297 was deproclaimed and Tourist Road 4056 proclaimed as follows. That part of the Barry Way from the Victorian border at Willis generally northerly along the Snowy River to the boundary of the Kosciusko National Park approximately 38 km south of Jindabyne, being a length of approximately 35 km within the Shire of Snowy River.

**APPENDIX No. 13  
DECLARATION OF SECONDARY ROADS 1977-78**

During the year the following Secondary roads were revoked

City, Municipal or Shire Area	Road No.	Date of Proclamation	Description
Mosman	2051	1.7.77	Parriwi Road, Mosman, from Spit Road (MR164) Mosman, to Spit Road at The Spit.

**APPENDIX No. 14  
DEPROCLAMATION OF DEVELOPMENTAL ROADS 1977-78**

During the year the following Developmental Roads were deproclaimed

City, Municipal or Shire Area	Road No.	Date of Proclamation	Description
Merriwa and Coolah	1304	22.7.77	Uarbry Road, from the Mudgee-Cassilis Road (MR214) east of Curryall generally westerly via Uarbry, to the Gulgong-Coolah Road (TR55) east of Craboon, a length of approximately 46.6 km within the Shires of Coolah and Merriwa. This is now part of TR62 as proclaimed in Government Gazette No. 82 of 22 July, 1977.
Snowy River	1297	12.8.77	From Jacobs River, generally southerly along the Snowy River to the Victorian border at Willis within the Shire of Snowy River. This is now Tourist Road 4056 as proclaimed in Government Gazette No. 89 of 12 August, 1977.
Bourke	1316	27.1.78	The road along the eastern side of the Paroo River from MR405 near Wanaaring, north-easterly and northerly, to MR429 near Willara Crossing within the Shire of Darling. This is now part of MR429 as proclaimed in Government Gazette No. 13 of 27 January, 1978.

**APPENDIX No. 14A  
DEPROCLAMATION OF MAIN ROADS 1977-78**

During the year the following Main Roads were deproclaimed

City, Municipal or Shire Area	Road No.	Date of Proclamation	Description
Crookwell	201	30.6.78	From TR54 approximately 8.7 km north of Binda via Bigga to the northern boundary of Crookwell Shire.

**APPENDIX No. 15  
DEPROCLAMATION OF DEVELOPMENTAL WORKS 1977-78**

During the year the following Developmental Works were deproclaimed

Shire Area	Work No.	Date of Proclamation	Description
Gloucester	3139	10.3.78	The construction of a bridge over the Barnard River near Kauthi at the boundary between Gloucester and Manning Shires.
Gloucester	3152	10.3.78	The construction of the road from Peach Tree Cutting on Developmental Road 1150 at approximately 49.2 km north of Gloucester to Carsons Forestry Road at approximately 5.8 km from the Barnard River crossing (Developmental Work 3139), a length of approximately 2.4 km within the Shire of Gloucester.

**APPENDIX No. 16**  
**DISTANCES OF FREEWAYS, STATE HIGHWAYS, TRUNK ROADS, ORDINARY MAIN ROADS,**  
**SECONDARY ROADS, TOURIST ROADS AND DEVELOPMENTAL ROADS**  
**IN NEW SOUTH WALES FOR THE FIVE YEARS ENDED 30 JUNE 1978**

Road Class	At 30 June				
	1974 km	1975 km	1976 km	1977 km	1978 km
<b>County of Cumberland Area —</b>					
Freeways	58	86	86	86	86
State Highways	313	314	314	314	314
Ordinary Main Roads	1 082	1 085	1 087	1 087	1 087
<b>Total all Main Roads and Freeways</b>	<b>1 453</b>	<b>1 485</b>	<b>1 487</b>	<b>1 487</b>	<b>1 487</b>
Secondary Roads	291	287	285	287	287
Tourist Roads	85	85	85	85	85
Developmental Roads	30	30	30	30	30
<b>Total all Classified Roads</b>	<b>1 859</b>	<b>1 887</b>	<b>1 887</b>	<b>1 889</b>	<b>1 889</b>
<b>Country Area —</b>					
Freeways	26	28	28	41	41
State Highways	10 188	10 178	10 162	10 164	10 157
Trunk Roads	7 037	7 081	7 080	7 074	7 103
Ordinary Main Roads	17 379	17 230	17 230	17 218	17 314
<b>Total all Main Roads and Freeways</b>	<b>34 630</b>	<b>34 517</b>	<b>34 500</b>	<b>34 497</b>	<b>34 615</b>
Tourist Roads	320	314	310	318	341
Developmental Roads	3 631	3 588	3 578	3 588	3 456
<b>Total all Classified Roads</b>	<b>38 581</b>	<b>38 419</b>	<b>38 388</b>	<b>38 403</b>	<b>38 412</b>
<b>Total for whole State —</b>					
Freeways	84	114	114	127	127
State Highways	10 501	10 492	10 476	10 478	10 471
Trunk Roads	7 037	7 081	7 080	7 074	7 103
Ordinary Main Roads	18 461	18 316	18 317	18 305	18 400
<b>Total all Main Roads and Freeways</b>	<b>36 083</b>	<b>36 003</b>	<b>35 987</b>	<b>35 984</b>	<b>36 101</b>
Secondary Roads	291	287	285	287	287
Tourist Roads	405	399	395	403	426
Developmental Roads	3 661	3 618	3 608	3 618	3 486
<b>Total all Classified Roads*</b>	<b>40 440</b>	<b>40 307</b>	<b>40 275</b>	<b>40 292</b>	<b>40 300</b>

\*In addition, the Department is responsible for the full cost of works on unclassified roads in the unincorporated area in the western part of the State totalling 2 398 km and is also responsible for a length of 82 km in the incorporated area.

**APPENDIX No. 17**  
**DISTRIBUTION BETWEEN THE DEPARTMENT AND COUNCILS OF RESPONSIBILITY**  
**FOR CARE AND CONTROL OF ROADS AT 30 JUNE 1978 IN ACCORDANCE WITH**  
**THE PROVISIONS OF THE MAIN ROADS ACT, 1924**

	County of Cumberland* km	Country km	Total km
<b>1. Roads which are the responsibility of the Department of Main Roads —</b>			
(a) Where work was carried out by the Department —			
Freeways.....	102	25	127
State Highways .....	338	8 870	9 208
Trunk and Ordinary Main Roads other than the County of Cumberland.....	—	1 043	1 043
Ordinary Main Roads in the County of Cumberland.....	746	—	746
Unincorporated area of the Western Division —			
Trunk and Ordinary Main Roads .....	—	778	778
Unclassified Roads .....	—	2 398	2 398
(b) Where work was carried out for the Department by Councils —			
State Highways .....	—	1 263	1 263
Ordinary Main Roads in the County of Cumberland.....	340	—	340
<b>2. Roads which are the responsibility of Councils wholly financed by the Department of Main Roads —</b>			
Trunk and Ordinary Main Roads other than in the County of Cumberland.....	—	22 596	22 596
	<b>1 526</b>	<b>36 973</b>	<b>38 499 ‡</b>

\*County of Cumberland refers to the area defined in Part IV Section 9 of the Main Roads Act, 1924.

‡Excludes Secondary, Tourist, Developmental Roads and Unclassified Roads in Incorporated Area.