

# COUNTRY ROADS BOARD ALLOCATIONS FOR 1969-70

## \$79 MIL. FOR ROADS AND BRIDGES

The allocation of funds for the maintenance, construction, reconstruction and improvement of various classifications of roads throughout Victoria during the year 1969/70 has been completed by the Country Roads Board.

As in previous years the applications for financial assistance were far in excess of the revenue available to the Board. However, the funds allocated by the Board represent an increase of \$9 million over the previous year.

The classifications of roads and amounts allocated are:  
Roads which are the direct responsibility of the Board.

State highways and by-pass roads .....	\$33,617,000
Tourists' roads .....	2,964,000
Forest roads .....	791,000
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	\$37,372,000

Roads which are under the care and management of Municipal Councils.

Main roads .....	\$23,001,000
Unclassified roads .....	\$18,819,000
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	\$41,820,000

**Total \$79,192,000**

The following are some of the works to be carried out during this financial year:

### BY-PASS ROADS

#### STRATHMORE BY-PASS ROAD

Completion of two miles of freeway between Bell Street, Coburg and the Calder Highway, North Essendon, to form part of the new route from Flemington to Tullamarine (Melbourne) Airport.

#### LOWER YARRA FREEWAY

Work will continue on the construction of four miles of freeway between the Princes Highway West and Williamstown Road to link with the new West Gate Bridge, together with the development of a short section of freeway in Port Melbourne and the improvement of some existing roads in Port Melbourne and South Melbourne to serve as feeder roads to the freeway.

#### FRANKSTON BY-PASS ROAD

Construction of the southbound carriageway between Klauer Street and McMahons Road, including a grade separated interchange with the Dandenong-Frankston Road, will be commenced.

#### CALDER BY-PASS ROAD

Widening to six lanes will be carried out along the southern boundary of Essendon Airport.

#### MULGRAVE BY-PASS ROAD

Construction will commence on 4.4 miles of four lane freeway between Springvale Road and Stud Road.

#### PRINCES BY-PASS ROAD

Between Hernes Oak and west of Morwell construction of the southern carriageway will be commenced to provide dual carriage-ways.



No. 13

October, 1969



A widened section of the Omeo Highway, north of Mt. Wills in the Shire of Omeo.

### STATE HIGHWAYS

#### PRINCES HIGHWAY WEST

##### Footscray City

Reconstruction and widening to provide six lanes between Nicholson Street and Gordon Street.

##### Corio Shire

Construction of the bridges and approaches at the Separation Street road over rail overpass will continue.

##### South Barwon and Barrabool Shires

Commencement of construction of 2.8 miles of a second carriage-way for traffic travelling towards Colac.

##### Hampden Shire

Completion of the reconstruction of 2.0 miles at Weerite, 3.0 miles east of Camperdown, and 4.8 miles from Terang to Garvoc.

##### Warrnambool City

Completion of 0.6 miles of duplicate carriageways from Battarbee's Corner to Bell Street.

##### Portland Shire

Construction of an overpass

and approaches at Lyons level crossing.

#### PRINCES HIGHWAY EAST

##### Malvern and Oakleigh Cities

Construction of 1.4 miles of multi-lane highway from Castlebar Road to Fern Tree Gully Road, including major improvements at the Warrigal Road intersection.

##### Tambo Shire

Reconstruction of 1.6 miles west of Nowa Nowa to provide a sealed pavement 24 feet wide.

##### Orbost Shire

Reconstruction of 2.9 miles on a new alignment to avoid two railway level crossings near Newmerella, and completion of the 4.5 mile deviation from Maramingo Creek to N.S.W. border.

Details of other works to be carried out are on pages 2 and 3 of this issue.

## C.R.B. 1969-70 PROGRAMME

(Continued from page 1)

### WESTERN HIGHWAY

#### Footscray City

Reconstruction and widening between the Princes Highway West and Farnsworth Avenue.

#### Sunshine City

Strengthening of the carriage-way between Duke and Anderson Streets.

#### Ballarat City

Commence construction of a road over rail overpass and approaches east of Caledonian Bridge.

#### Lowan and Kaniva Shires

Widening of 8.9 miles to provide a sealed pavement 24 feet wide.

### CALDER HIGHWAY

#### Metcalf Shire

Continuation of work in connection with the construction of a road over rail overpass on a new highway alignment at Elphinstone.

#### Marong Shire

Widening 4.5 miles north of Derby rail crossing to provide a sealed pavement 24 feet wide.

#### Wycheproof Shire

Complete the reconstruction of 3.2 miles south of Nyarrin turn-off to provide a sealed pavement 24 feet wide.

### NORTHERN HIGHWAY

#### Pyalong and McIvor Shires

Widening 3.1 miles south of Tooborac to provide a sealed pavement 24 feet wide.

#### Rochester Shire

Complete the reconstruction of 2.0 miles through and north of Rochester.

### HUME HIGHWAY

#### Broadmeadows City

Construction of additional lanes over a distance of 1.9 miles northerly from Andersons Road.

#### Seymour Shire

Reconstruction of 1.9 miles north of Seymour, and 1.0 mile through Avenel.

#### Benalla Shire

Continuation of resheeting 5.3 miles between Baddaginnie and Benalla.

#### Wodonga Shire

Construction of 1.8 miles of dual carriageways on Lincoln Causeway between Wodonga and the Murray River, including a new bridge over Wodonga Creek.

### OMELO HIGHWAY

#### Omeo Shire

Resheeting 2.5 miles with curve improvements between Bald Hills Creek and just north of Swifts Creek.

#### Towong Shire

Continuation of widening 4.5 miles and curve improvements north of Miscalculate Hill towards Lightning Creek.

### MURRAY VALLEY HIGHWAY

#### Yarrawonga Shire

Widening 2.6 miles east of Yarrawonga to provide a sealed pavement 24 feet wide.

#### Cohuna Shire

Reconstruction of 2.6 miles east of Cohuna to provide a sealed pavement 24 feet wide.

#### Mildura Shire

Reconstruction of 4.4 miles east of Hattah to provide a sealed pavement 18 feet wide.

### SOUTH GIPPSLAND HIGHWAY

#### Cranbourne Shire

Completion of 3.0 miles of reconstruction south east of Cranbourne to beyond Five

Ways to provide a sealed pavement 24 feet wide. Widening and reconstruction of 1.4 miles across Yallock Creek floodway.

#### Korumburra Shire

Widening and realignment of 0.7 miles between Loch and Alsop's Creek to provide a sealed pavement 24 feet wide, and construction of a road over rail overpass and road approaches at Alsop's Creek.

Continuation of reconstruction and realignment of 2.8 miles between Loch and Bena to provide a sealed pavement 24 feet wide.

#### Woorayl Shire

Reconstruction of 0.5 miles through Korumburra to provide dual carriageways each 30 feet wide.

#### South Gippsland Shire

Completion of regrading and realignment of 1.2 miles west of Foster to provide a sealed pavement 22 feet wide.

#### Alberton Shire

Replacement of a timber bridge over Bruthen Creek with a new reinforced concrete structure 28 feet between kerbs.

### MIDLAND HIGHWAY

#### Ballarat and Bungaree Shires

Reconstruction of 2.3 miles on a new alignment at the Sulky railway level crossing.

### Daylesford and Glenlyon Shire

Reconstruction and realignment of 6.4 miles at Mt. Franklin to provide a sealed pavement 22 feet wide.

#### Shepparton City

Continuation of work in connection with the new approach to Shepparton including demolition of the existing No. 1 Bridge, construction of an embankment, and a new channel for the Goulburn River.

#### Shepparton Shire

Widening 6.7 miles east of Goulburn East Main Channel to provide a sealed pavement 24 feet wide.

#### Benalla Shire

Reconstruction and realignment of 4.0 miles north of Swanpool to provide a sealed pavement 22 feet wide.

### BONANG HIGHWAY

#### Orbost Shire

Reconstruction of 3.0 miles beyond Wild Cow Creek.

### GOULBURN VALLEY HIGHWAY

#### Shepparton Shire

Completion of widening the Seven Creeks Bridge at Kialla to 28 feet between kerbs.

## COUNTRY ROADS BOARD STAND AT ROYAL SHOW



Enlarged black and white and colour photographs showed the Board's operations throughout Victoria. Films were projected at regular intervals and visitors to the stand were counted by a traffic counter. Over 50,000 visitors were recorded.

## NEPEAN HIGHWAY

### Moorabbin City

Construction of a 6-lane divided highway from Moorabbin overpass to Enright Street.

### Mornington Shire

Construction of a 4-lane divided highway from Volitans Road to Dava Drive.

## GLENELG HIGHWAY

### Wannon Shire

Construction of a new bridge 28 feet between kerbs over Bryan Creek at Coleraine.

### Glenelg Shire

Reconstruction of 4.5 miles east of Strathdownie to provide a sealed pavement 20 feet wide.

## NORTH WESTERN HIGHWAY

### Ballarat Shire

Construction of duplicate pavements in Howitt Street, Ballarat, between Shelley Street and Gillies Street.

## BASS HIGHWAY

### Bass Shire

Widening 6.4 miles from Grantville to Bass to provide a sealed pavement 24 feet wide.

## MAROONDAH HIGHWAY

### Lillydale Shire

Reconstruction of 2.0 miles to provide dual carriageways between Brushy Creek and just west of Hull Road, and reconstruction of 1.0 mile at Rosemont.

### Lillydale and Healesville Shires

Completion of reconstruction of 1.8 miles from "The Grange" to Yarra Flats, including a deviation at Maxwells Hill and the construction of a new bridge over the Yarra River.

### Healesville Shire

Widening 2.8 miles with curve improvements between Myers Creek Road and the M.M.B.W. watershed boundary.

### Alexandra Shire

Completion of reconstruction of 2.7 miles between Breakaway Road turn-off and Goulburn Flats (Acheron Cutting).

## BELLARINE HIGHWAY

### Bellarine Shire

Construction of 1.0 mile of duplicate carriageway from Wilsons Road to Twitts Road.



The new by-pass road (Moe section) on the Princes Highway west of Moe.

## PYRENEES HIGHWAY

### Lexton and Ararat Shires

Widening 9.3 miles between Amphitheatre and Dunneworthy to provide a sealed pavement 20 feet wide.

## BURWOOD HIGHWAY

### Nunawading and Knox Cities

Extension of 4-lane dual carriageways from Morack Road to east of Stud Road including new bridges over Dandenong Creek.

## CANN VALLEY HIGHWAY

### Orbost Shire

Reconstruction of 3.5 miles, including approaches to a new bridge over Cann River, West Branch.

## McIVOR HIGHWAY

### McIvor Shire

Reconstruction of 4.3 miles through Knowsley.

## WARBURTON HIGHWAY

### Lillydale Shire

Reconstruction of 1.4 miles between Seville Hill and Killara Hill to provide a sealed pavement 24 feet wide.

## HAMILTON HIGHWAY

### Bannockburn Shire

Completion of a new bridge over the Moorabool River at Fyansford, including road approaches.

## TOURISTS' ROADS

### ALPINE ROAD

#### Bright Shire

Widening 0.6 miles to 25 feet wide formation at Mt. Blowhard.

#### Omeo Shire

Reconstruction of 2.8 miles from Victoria River over Cobungra Hill on an improved alignment and grade.

### DONNA BUANG ROAD

#### Healesville Shire

Reconstruction of 2.2 miles from Maroondah Highway to Badger Creek to provide a sealed pavement 24 feet wide.

### MT. BUFFALO ROAD

#### Bright Shire

Widening 1.5 miles from Lake Catani to Dingo Dell car park to provide a sealed pavement 24 feet wide.

### OCEAN ROAD

#### Winchelsea Shire

Reconstruction of 1.0 mile from Sheoak River to provide a sealed pavement 24 feet wide.

#### Otway Shire

Reconstruction and realignment of 2.9 miles from east of Johanna Road to provide a sealed pavement 20 feet wide.

#### Colac Shire

Widening 2.9 miles near Wingeel to provide a sealed pavement 24 feet wide.

#### Mt. Rouse Shire

Reconstruction of 3.0 miles between Mustons Creek and Peshurst to provide a sealed pavement 24 feet wide.

### MARYSVILLE-WOODS POINT ROAD

#### Healesville Shire

Completion of reconstruction of 1.9 miles on a new alignment between Kerami Guest House and Robley's Saddle to provide a sealed pavement 22 ft. wide.

### PHILLIP ISLAND ROAD

Completion of the new Phillip Island Bridge between San Remo and New Haven.

### MT. DANDENONG ROAD

#### Sherbrooke Shire

Completion of reconstruction of 0.9 miles from Tremont to Boundary Bend to provide a sealed pavement 24 feet wide.

### WILSONS PROMONTORY ROAD

#### South Gippsland Shire

Continuation of the reconstruction of 3.2 miles between Darby River and Tidal River to provide a sealed pavement 22 feet wide.

# NEW RIVER CROSSING ON MIDLAND HIGHWAY

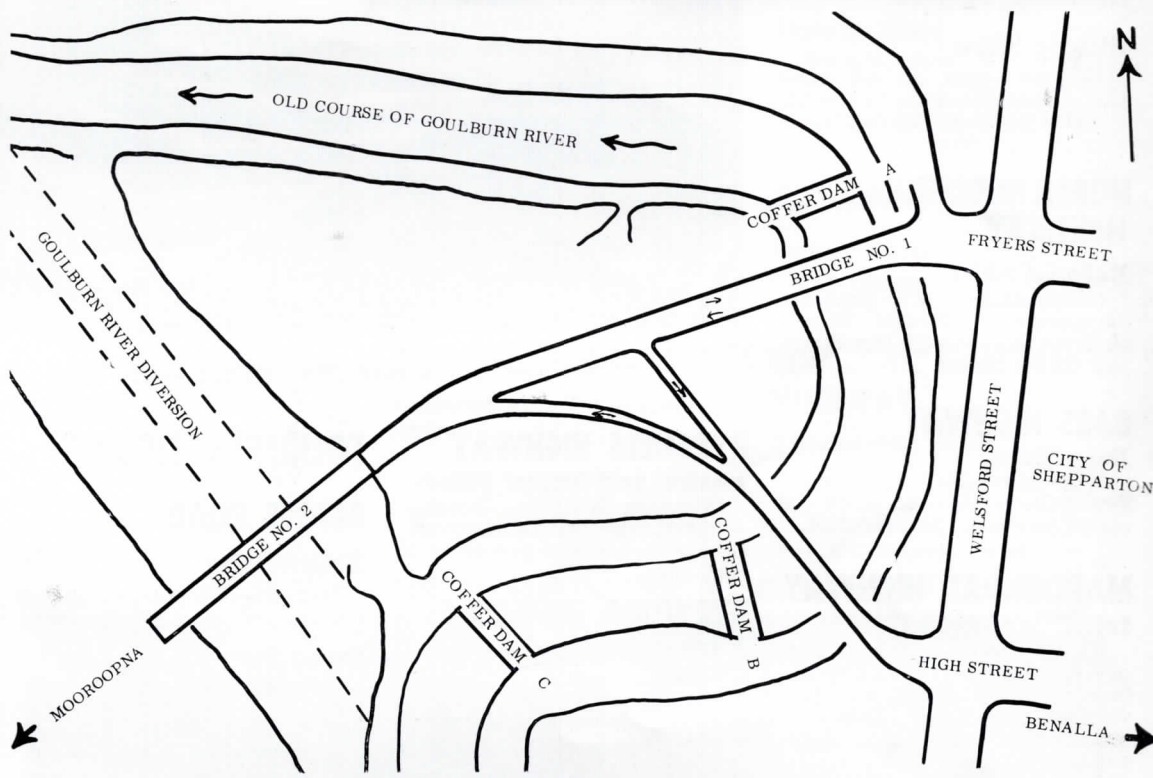
Between Shepparton and Mooroopna, a distance of 2 miles, the Midland Highway is on a causeway above the flood plain of the Goulburn River. Immediately west of Shepparton the highway crosses the river on a 6-span reinforced concrete bridge (Bridge No. 1) designed by Sir John Monash in 1912. About  $\frac{1}{4}$  mile further to the west is Bridge No. 2 over a natural flood channel cutting across a horseshoe bend in the Goulburn River.

Traffic between Shepparton and Mooroopna has increased considerably over the last few years and the Board considered several proposals to improve conditions for traffic between these centres. The scheme chosen required the flow of water in the Goulburn to be diverted from its old course by widening and deepening the natural floodway under Bridge No. 2. An entirely new additional approach to Shepparton could then be provided by an embankment leading to High Street. A new embankment leading to Fryers Street will replace Bridge No. 1 on the same alignment as the present bridge.

## Diversion of River

In April, 1967, underpinning of Bridge No. 2 commenced. Steel shell piles 60 feet long, later filled with concrete, were driven below the existing pier piles. These were connected to the existing piles to support the bridge when the new deep channel was excavated to carry the full flow of the river. This stage of the project was completed last December and the river was diverted to its new course. Two stockpiles of earth were then pushed into the old course of the river by heavy bulldozers to form cofferdams A and B, and the estimated 3 million gallons of water held between them was pumped out. A similar process was used by forming cofferdam C near the point of diversion. This cofferdam will later be enlarged and become a permanent diversion bank. Material being excavated for widening the artificial channel is being used to fill the old river course.

Right: Midland Highway Bridge No. 2 near Shepparton, showing flow of Goulburn River in new channel and strengthening of piles.  
Below: Map-gram showing Goulburn River diversion.



The project was suspended for the winter, but by May of next year the Board expects to have completed the river works and the construction of the two road embankments.

## U.S.A. EXPERT DISCUSSES WET ROADS AND SKIDDING WITH C.R.B.

The Country Roads Board Asphalt Engineer, Mr. S. Deaney, was recently visited by Mr. W. J. Kari, a bitumen expert from U.S.A. Mr. Kari, Technical Coordinator of International Bitumuls Corporation of San Francisco, made a special visit to Victoria during a world tour to investigate C.R.B. techniques for the sprayed sealing of road pavements as a possible solution to the problems of vehicles skidding on wet roads. Treads on

motor tyres are generally incapable of dispersing the thin film of water on a wet pavement surface quickly enough to retain sufficient friction between tyres and pavement, especially at speeds over 40 m.p.h., which results in loss of vehicle control.

Mr. Kari had discussions with the Board's engineers and took with him a complete set of design data and all necessary information on the Board's sealing methods.

## NEW PEDESTRIAN OVERPASS FOR PARKDALE

The Country Roads Board has accepted a tender amounting to \$55,855 for the construction of a pedestrian overpass over the Nepean Highway at Parkdale State School. The successful tenderer was F. Barry-Brown and Stone Pty. Ltd. of Mordialloc. Completion of the project is scheduled for March, 1970.

This overpass will be the seventh to be constructed under the State Government scheme for the replacement of school crossings on important arterial roads.

Those already completed are located over—

- The Western Highway near Braybrook State School;
- the Western Highway near Braybrook High School;
- the Princes Highway West at Ormond Road, Footscray;
- the Nepean Highway near Moorabbin State School;

- the Maroondah Highway near Blackburn State School;
- the Maroondah Highway near St. John's School, Mitcham.

The costs of these overpasses are shared equally by the Government, the Country Roads Board, and the municipal council concerned.

Other pedestrian overpasses have been built by the Country Roads Board where new road construction has altered the original relationships between vehicles and school children.

Examples of overpasses financed wholly by the Board are—

- Nepean Highway at Mt. Eliza;
- Lower Yarra Freeway at Rosala Avenue, Altona North, and Wembley Avenue, Spotswood;
- Pascoe Vale Road at Strathmore High School.