







LONGITUDINAL SECTION # PLAN Sheet No. 14142



5400 Length of post strip

5000 Laminated panel deck width

4200

Ward PATEAROA

Roadway name ... STYX-PATEAROA ROAD

Waterway name ... TAIERI RIVER (HORES BRIDGE)

Map reference ...

H42 713 380

Drawing ref DWK 14142

STRUCTURAL DETAILS

Bridge type T/S Single lane, laminated timber deck, steel beams, concrete piles and pile

Overall length 46.200 m

Number of spans 6

Span betwn supports .. 7.0

Beam size & spacing ..

150 Iaminated timber panels. –

75x50 RHS posts & top rail with steel guardrails.

460x190 UB beams.-

Overall deck width .. 5.000 m Carriageway width ... 3.700 m

(Distance between kerb or guard rail faces)

CONSTRUCTION MATERIALS

Deck Nail laminated radiata pine strips

Beams 4 No. 760 UB 74 steel beams

Abutment walls . Reinforced concrete

Wing walls None

Piers Reinforced concrete caps on concrete piles

Foundations Reinforced concrete piles (some square, some oct.)

Bearings Steel Deck joints N/A Kerbs N/A

Guard rails Steel 'Flexrail'

Hand rails Steel RHS (100x50) on RHS post (100x100)

Footpaths N/A

Approaches

Special comments. New superstructure beams and deck installed in 1992.

Piles in main channel show significant spalling at inspection in March 1996. Major repair recommended.

LOADING INFORMATION

..... HN-72 Design loading

Gross weight limit Not restricted Axle weight limit Not restricted Speed restrictn (km/hr) ... Not restricted

O/load class : Gross class . 100

: Deck grade . B

Design Ref/Cnstr year DWK14142 (superstructure only) / 1992

HYDROLOGICAL DATA

Waterway clearance .. 3.200 m

Known flood data

Waterway area 110 sq. m

17/01/97

CENTRAL OTAGO DISTRICT - BRIDGE NO. 152

Ward PATEAROA

Roadway name ... STYX-PATEAROA ROAD

Waterway name ... TAIERI RIVER (HORES BRIDGE)

MAINTENANCE REPORT

Priority for replacement ...

Last painted / /

(above date applies to beams only)

Timber last repaired / /

Concrete last repaired / /

Last Inspection.. 27/03/96 Rem. Life.. 40 yrs Next Inspection.. 27/03/97

MINOR MAINTENANCE - NEEDED

- 1. Remove build-up of debris around abutment bearings of beams.
- 2. A number of deck fixing plates have worked loose and some have dropped off. Check all deck fixing plates and tighen or replace as necessary.
- 3. Minor settlement in road surface behind Patearao abutment. Build up depression with cold mix or hot mix as appropriate.

DWK (Alexandra Office) to issue instruction to Maintenance Contractor toexecute work detailed in the above items.

MINOR MAINTENANCE - COMPLETED Nil.

MAJOR MAINTENANCE

Pile repairs required - see 'Special Investigations' below.

MAJOR MAINTENANCE - COMPLETED Nil.

SPECIAL INVESTIGATION

- 1. Cover concrete to piles in main channel showing significant degradation and starting to spall. In worst cases main reinforcing is now visible. Repairs should be carried out within next 3 years. To be programmed in next NLTP for 1997/98.

 DWK to action.
- Some minor stripping of chip seal on deck surface. To be repaired when road next resealed. DWK to action.

WATERWAY CONDITION Satisfactory.



Project No.: 18800.46

Date: December 1998

Project Name: Bridge 152, Styx - Patearoa Road, Taieri River.



Description: Typical decking fixing



Description: View under at TL abutment