P1 RECONSTRUCTION

- 7mm Primer Seal
- 14mm Final Seal (following Year)
- 150mm DG2 20
- 150mm DG2 20
- 7mm Spray Seal
- 150mm Select Quality Gravel (Min CBR 15%)
- Granular Subgrade (Min CBR 10%)

P2 RECONSTRUCTION & DRAINAGE BLANKET

- 7mm Primer Seal
- 14mm Final Seal (following Year)
- 150mm DG2 20
- 150mm DG2 20
- 7mm Spray Seal
- 150mm Select Quality Gravel (Min CBR 15%)
- Granular Subgrade (Min CBR 10%)
- 300mm Drainage Blanket

P3 OVERLAY

- 7mm Primer Seal
- 14mm Final Seal (following Year)
- Incl. Stabilise Existing Pavement
- Crushed Granite Gravel to depth of 360mm (additive 15%)
- 80mm Select (Existing Pavement)

P4 ACCESSES

- 7mm Primer Seal
- 14mm Final Seal (following Year)
- 250mm DG2 20
- 7mm Spray Seal
- 150mm Select Quality Gravel (Min CBR 15%)

ROADS AND MARITIME SERVICES

HWY - SNOWY MOUNTAINS HIGHWAY
APPROACHES TO WIDENING OF BRIDGE OVER BEMIDOKA RIVER
AT MORANS CROSSING
FROM 26.6m TO 27.7km WEST OF PRINCES HIGHWAY
PAVEMENT DETAILS

NOT TO SCALE

This sheet may be prepared using colour and may be incomplete if copied
Seal existing access to road boundary

LEGEND
- P1 Reconstruction
- P2 Reconstruction & Drainage Blanket
- P3 Overlay
- P4 Accesses
- MCDD Master string label

ROADS AND MARITIME SERVICES
HWY - SNOWY MOUNTAINS HIGHWAY
APPROACHES TO WIDENING OF BRIDGE OVER BEMBOKA RIVER
AT MORANS CROSSING
FROM 26.6m TO 27.7km WEST OF PRINCES HIGHWAY
PAVEMENT DETAIL PLAN - 26850 TO 27100

NOT FOR CONSTRUCTION

This sheet may be prepared using colour and may be incomplete if copied.
ROADS AND MARITIME SERVICES

HWY - SNOWY MOUNTAINS HIGHWAY
APPROACHES TO WIDENING OF BRIDGE OVER BEMBOKA RIVER
AT MORANS CROSSING
FROM 26.6m TO 27.7km WEST OF PRINCES HIGHWAY
PAVEMENT DETAIL PLAN - 27100 TO 27350

LEGEND

- P1 Reconstruction
- P2 Reconstruction & Drainage Blanket
- P3 Overlay
- P4 Accesses
- MCOO Master string label

SCALES

Transport
Roads & Maritime
SERVICES

ENGINEERING TECHNOLOGY
PROJECTS DELIVERY
DESIGN SOUTHERN

COORDINATE SYSTEM WGS Zone 50
HEIGHT DATUM A.H.D.

DIAL BEFORE YOU DIG
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NOT FOR CONSTRUCTION

DRAWING
STAGE
DETAIL
PAGE
ISSUE

121081-DD-PV-0103.dgn
DETAIL
1
1

DS2012/001091 PV-0103
This sheet may be prepared using colour and may be incomplete if copied.
BRIDGE OVER BEMBOKA RIVER
AT MORAN'S CROSSING 27km WEST OF BEGA
WIDENING

EXISTING BRIDGE - 1935
REGISTRATION No OF PLANS: 0004 298 BC 0131
RMS BRIDGE No: B6028
GENERAL FILE No: 4/32.147
TRAFFIC BARRIER UPGRADE: 30% OF REGULAR PERFORMANCE
PERFORMANCE LEVEL:

WIDENING BRIDGE: 2013
RMS BRIDGE No: B6028
DESIGN FILE No: SF 2012/023040
DESIGN STANDARD: AS 5100 - 2004 - BRIDGE DESIGN
ROAD TRAFFIC LOADING: SM1600
NUMBER OF DESIGN TRAFFIC LANES: 2
DESIGN TRAFFIC SPEED: 100 km/h
FATIGUE LOAD EFFECT:
NUMBER OF HEAVY VEHICLES PER LANE PER DAY: 160
ROUTE FACTOR: 1.0

HEAVY LOAD PLATFORM: HLP400
NO OF VEHICLES: 1
LATERAL POSITION: +/- 1m FROM HLP CENTRELINE AS SHOWN
HLP VEHICLE SPEED RESTRICTED TO 10 km/h
TRAFFIC BARRIER PERFORMANCE LEVEL: MEDIUM

EARTHQUAKE LOADING:
BRIDGE CLASSIFICATION: TYPE I
ACCELERATION COEFFICIENT: 0.08
SITE FACTOR: 1.0
DESIGN CATEGORY: BEDC-1
WIND LOADING:
DESIGN WIND SPEED = 37ml/h AT SLS
4811/s AT ULs

FLOOD DATA
1 IN 100 YEAR ARE WATER FLOW VELOCITY: 4.2m/s
1 IN 2000 YEAR ARE WATER FLOW VELOCITY: 4.63m/s
SCOUR DEPTH (m):
LOCATION 100ARI 2000ARJ
ABUTMENT A 4.0 4.0
PIER 1 2.5 2.5
PIER 2 1.8 1.8
PIER 3 1.7 1.7

DEPT OF DEBRIS 3m

LOCALITY PLAN
THE BRIDGE SITE IS APPROXIMATELY 4.75 km BY ROAD FROM SYDNEY

REGISTRATION No OF PLANS: DS2013/J001345
ISSUE STATUS: FINAL DESIGN REVIEW
SHEET No 1 No OF SHEETS 75 ISSUE 4
TO BEMBOKA

STEEL SAFETY BARRIER W BEAM

TYPE F REMOVED CONCRETE BARRIER
- CL THRE BEAM

FINISHED SURFACE LEVEL ALONG WING WALL

STAIR ACCESS

FINISHED SURFACE LEVEL ALONG WING WALL

EXISTING SURFACE LEVEL ALONG CONTROL LINE MC00

THREE BEAM

DESIGN FACE LEVEL ON CONTROL LINE

APPROX EXISTING SURFACE...

LEVEL ON CONTROL LINE

ON 2 CHAINAGE

CONTACT LEVEL RL.

EXISTING VIADUCT B
SUBSTRUCTURE----1---
OF EXISTING PIER 2

EXISTING VIADUCT A

SPAN 4

SPAN 3

SPAN 2

SPAN 1

OLD OF BEAM

NEW WEB BEAM

GRADE ASHALT

NEW WEB BEAM SAFETY BARRIER

NEW WEB BEAM

EXISTING VIADUCT

SITE PLAN

NOT TO SCALE

GENERAL NOTES

SCALE 1:500 OR AS SHOWN

DIMENSIONS ARE IN METRES.
CHANGES AND REDUCED LEVELS ARE IN METRES.
REDUCED LEVELS ARE RELATED TO:
A. DONATED RESTRAINED BEARING
B. DONATED EXPANSION JOINT
C. EMBANKMENT SHALL BE BACKFILLED TO THE UNDERSIDE
D. THE DECK WEARING SURFACE SHALL BE COMBINED SYSTEM
E. THE DECK Wearing surface shall be combined system
F. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
G. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
H. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
I. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
J. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
K. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
L. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
M. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
N. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
O. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
P. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
Q. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
R. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
S. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
T. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
U. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
V. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
W. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
X. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8
Y. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 9
Z. DONATED PROVISIONAL CONTRACT LEVELS SEE SHEET No 8

SITE PLAN

NOT TO SCALE