



Chainage	Deck Level	Ground Elevation
314	306.800	303.992
312	306.800	303.728
310	306.800	303.560
308	306.800	303.017
306	306.800	303.017
304	306.800	303.017
302	306.800	303.017
300	306.800	303.017

BRIDGE LONG SECTION  
SCALE 1:150

**DESIGN LOADINGS**

ALL LOADS IN ACCORDANCE WITH SANS 10167-1:2001 STRUCTURES DESIGN MANUAL AND 1017 WINDS 4/97

ROUTE CLASSIFICATION : MAIN SECONDARY MAIN ROAD

TRAFFIC LOADING : IN LOADINGS, NB LOADINGS, MA LOADINGS

PROPERTIES ASSIGNED IN ACCORDANCE WITH STANDARD DETAIL DRG. NO. S20 & 10 : PAVEMENT AND W/4

LANDING APPLICATION

25mm CHAMBERS TO ALL EXPOSED SHAPE CORNERS

FOUNDATION BEARING CAPACITY TO BE CONFIRMED ON GEOTECH.

CONCRETE CLASS AND COVER

ELEMENT	CLASS/STONE SIZE	COVER TO REINFORCEMENT
FOUNDATIONS	40/20	75
REINFORCEMENTS	40/20	50
DECK	40/20	50
PIERS	40/20	50
PARETS	30/15	50
MASS CONCRETE	15/10	50

CONCRETE FINISHES

WIND SURFACES : F2 (SMOOTH)

FINISHES : F1

ESTIMATES : F1

HYDROLOGY AND HYDRAULICS

SEE MAIN BLOCK & DRAWN

BOREHOLE DATA

TO BE CONFIRMED ON GEOTECHNICAL INVESTIGATION

Symbol	Date	Description	Checked	Signed
		AMENDMENTS		

Issued for Information	MM	MM	PRELIMINARY
Supervising Engineer	Supervising Authority	Date	Supervising Authority
APRIL 2013	APRIL 2013	APRIL 2013	APRIL 2013
Designed by - M. MTHEHWA	Checked by - M. MTONGA	Drawn by - W. SIBIYA	Checked by - M. MTHEHWA
File reference -	Survey Plan No. -		

PROVINCE OF KWAZULU - NATAL  
DEPARTMENT OF TRANSPORT

INGENROP  
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Mthethuma, 3001  
Tel: (031) 298 6413 Fax: (031) 298 6497  
e-mail: info@ingenrop.co.za

Bridge Engineer  
Head : Transport

ROAD P736 NONGOMA-OSUTHU  
BRIDGE COORDS : 27°59'11.52"S & 31°30'26.28"E

PHETHU RIVER BRIDGE  
GENERAL ARRANGEMENT

Staked km distance  
Scale  
AS SHOWN

Sheet :- 1 OF 1  
Plan No. :-  
0001/01