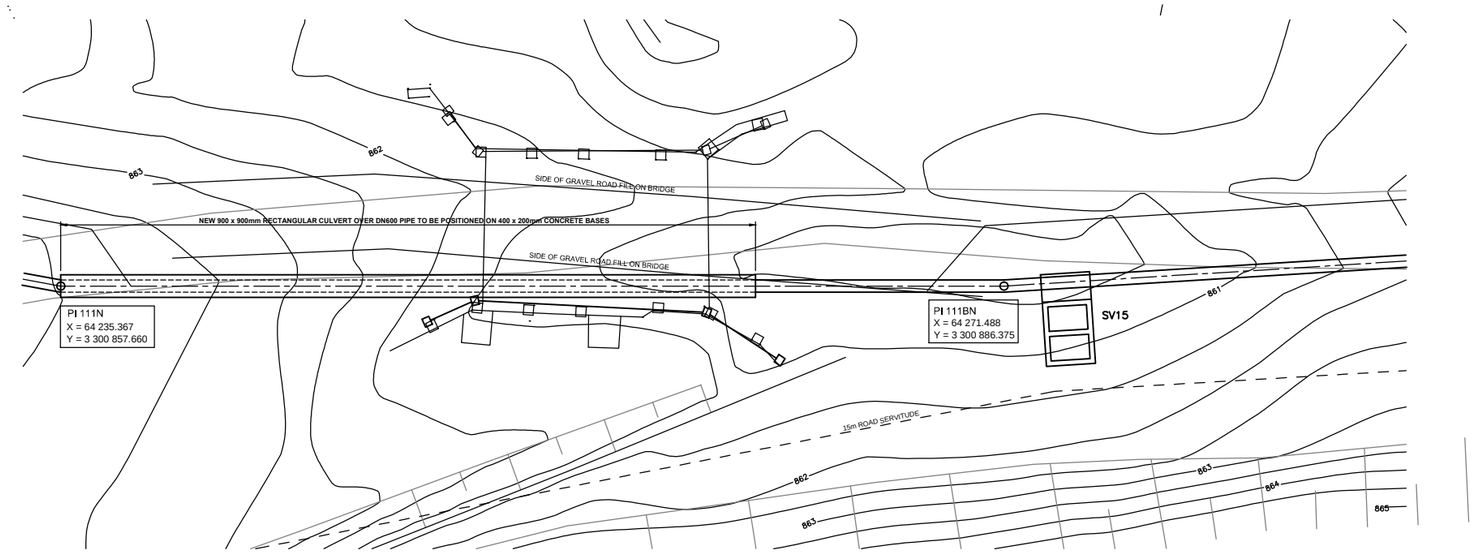
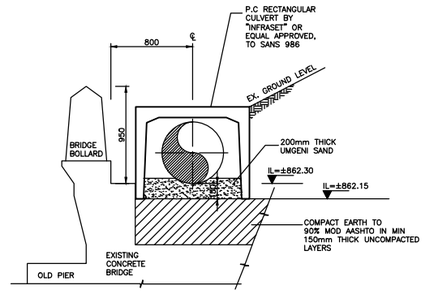


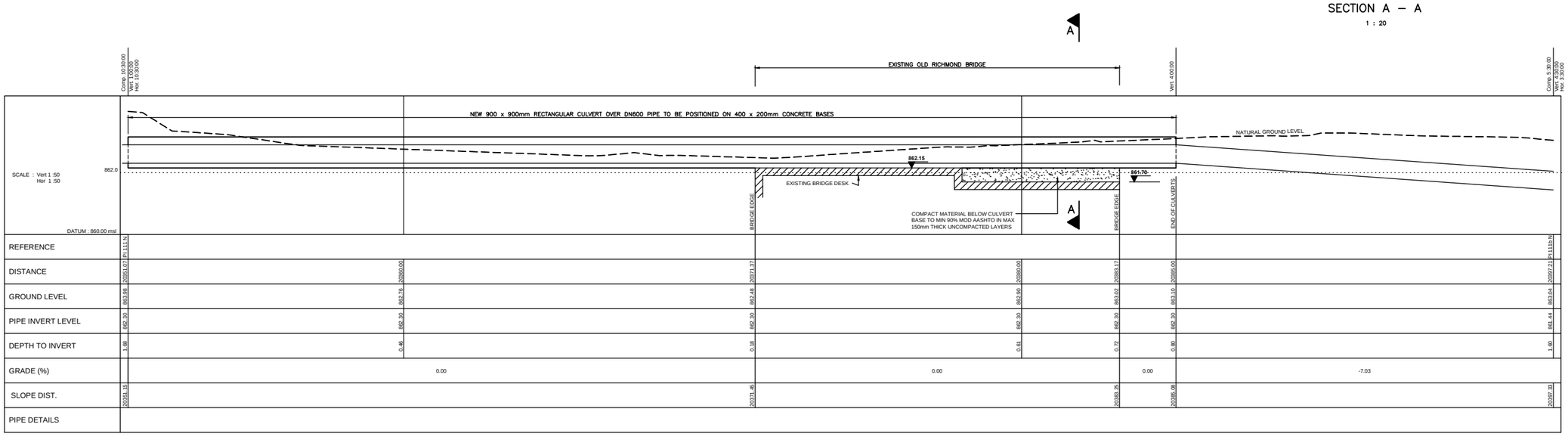
PART PLAN

1 : 100



SECTION A – A

1 : 20



PART LONGITUDINAL SECTION

1 : 50

REFERENCE DRAWINGS

DRAWING No.	TITLE/DESCRIPTION	SOURCE
46078	BIFURCATION SPECIALS	U.W.
46036	LONGITUDINAL SECTION	U.W.
46082	SINGLE SCOUR VALVE CHAMBER	U.W.

NOTES:

1.) ALL EXPOSED PIPING TO BE PAINTED LIBERALLY WITH TWO COATS OF APPROVED U.V. RESISTANT PVC PAINT (COLOUR DARK GREEN).

2.) ALL MILD STEEL FITTINGS TO BE HEAVY DUTY HOT-DIP GALVANIZED TO SANS 121 & ISO 1461 WITH HEAVY DUTY FILM THICKNESS OF 85 ±10 MICRON.

3.) TOPS OF EXISTING BRIDGE PIERS TO BE SCRABBLED AND COATED WITH APPROVED WET-TO-DRY EPOXY RESIN, THEREAFTER PLACE MIN. 100mm THICK 40/19 MPa STRENGTH CONCRETE TOPPING. ENSURE TOP OF CONCRETE IS LEVEL. ONCE CONCRETE TOPPING HAS ATTAINED 7 DAY STRENGTH CREATE 150x150x200mm DEEP "POCKETS" TO RECEIVE HOLDING DOWN BOLTS. INSTALL SADDLES WITH HOLDING-DOWN BOLTS. FILL "POCKETS" WITH APPROVED 40MPa NON-SHRINK GROUT. HAND TIGHTEN NUTS OF HOLDING DOWN BOLTS. ONCE NON-SHRINK GROUT HAS ATTAINED 14 DAY STRENGTH FURTHER TIGHTEN THE NUTS OF THE BOLTS ONE MORE TURN.

4.) ONCE INSTALLED ALL GALVANIZED FITTINGS SHALL RECEIVE TWO COATS OF APPROVED BITUMASTIC COATINGS. CARE SHALL BE TAKEN TO SEAL CREVICES.

KEY TO ABBREVIATIONS

M.S. – MILD STEEL
H.D.G. – HEAVY DUTY HOT DIP GALVANIZED
I.L. – INVERT LEVEL

NOTES

CONTRACTOR SHALL RECORD THE AS BUILT CO-ORDINATE POSITIONS OF THE BIFURCATION JUNCTIONS AND INSTALL U.W. STANDARD MARKER POSTS DIRECTLY ABOVE THESE JUNCTIONS

REV	DATE	DESCRIPTION	NAME	SIGNATURE APPROVED
0	SEP 12	FOR CONSTRUCTION		

	BY	DRAWN	CHECKED
SURVEYED			
DESIGNED	M. BAILLIE	M. BAILLIE	S. BURKE

UMGENI WATER APPROVAL

ENGINEERING SERVICES

	NAME	SIGNATURE	DATE
DESIGN ENGINEER	STEPHEN BURKE		
ENGINEERING MANAGER	ALAN KOCKOTT		

OPERATIONS

	NAME	SIGNATURE	DATE
AREA MANAGER	MONICA MALUNGA		
ASSET MANAGER	ERIC NENE		
GENERAL MANAGER	EDNICK MSWELI		

310 Burger Street
Pietermaritzburg
3201
Tel 033 341 1111

UMGENI WATER – AMANZI
WATER FOR GROWTH AND SUSTAINABLE DEVELOPMENT

RICHMOND PIPELINE

LINE TO RICHMOND
OLD RICHMOND BRIDGE CROSSING
@ DIST. 20374
& INSULATING FLANGE DETAIL

SITE PLAN, LONGITUDINAL SECTION & DETAIL

FILE No.	SCALE	SHEET
46047.dwg	AS SHOWN	1 or 1
CONTRACT No.	DRAWING No.	REVISION
2011/223	46056	0