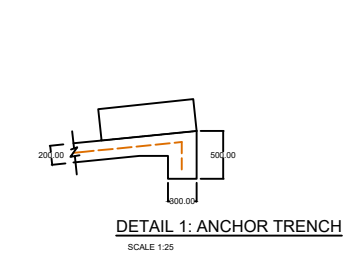
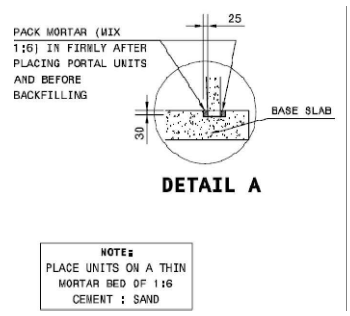
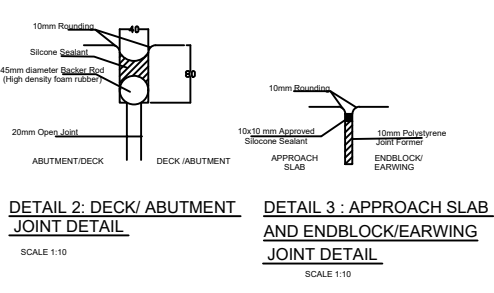
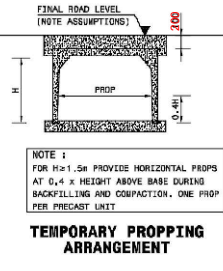
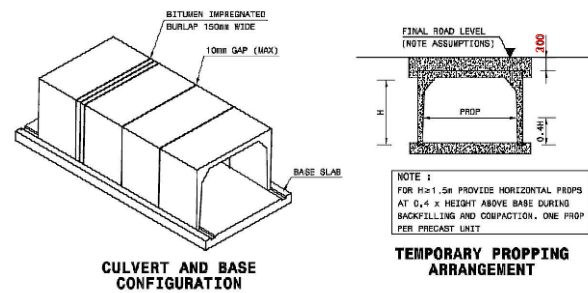
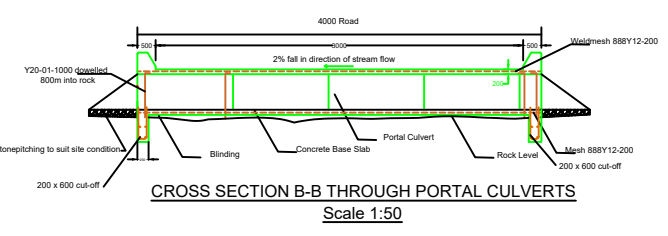
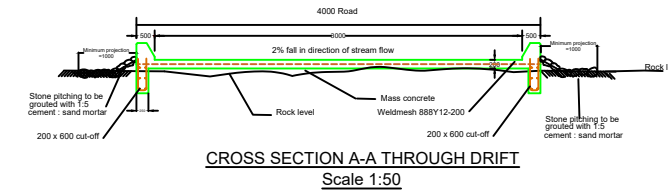
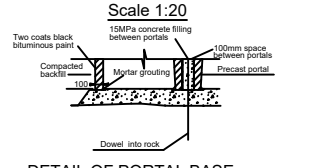
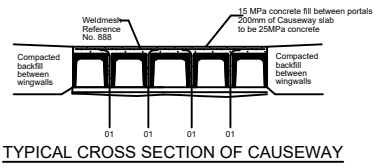
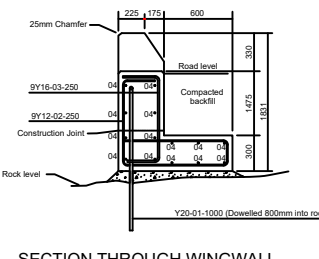
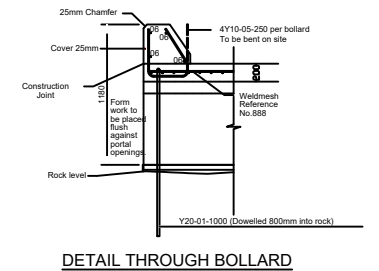


Datum 741.000		Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	263		
Vertical Alignment	Dis Road Levels	Left Edge	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	
		Centre Line	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35
		Right Edge	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35	739.35
Grades			-0.02%										0.00%										0.00%								
			1:4.41										1:1.41										1:1.41								
Vertical Curves			1:4.41										1:1.41										1:1.41								
			1:4.41										1:1.41										1:1.41								
Superelevation			-2.0000																												
Horizontal Curves																															

Longsection for 0 to 263
SECTION ALONG DRIFT CENTRELINE
Horizontal Scale: 500
Vertical Scale: 100



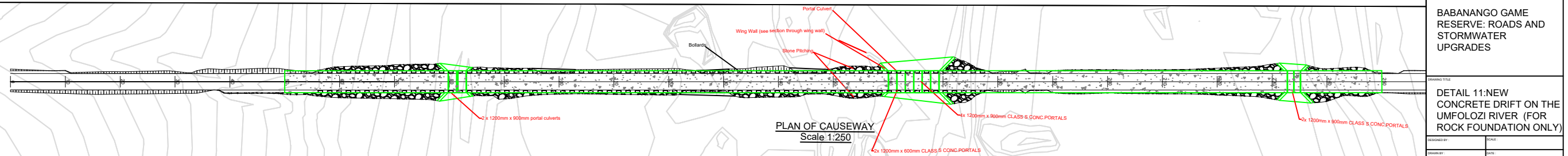
- NOTES**
- CONCRETE
 - CONCRETE MIX: 2519 (25Mpa) - APRONS
CAUSEWAY SLABS, INFILL AND CUT-OFF WALLS.
 - CONCRETE COVER TO REINFORCEMENT:
 - * AGAINST EARTH - 60mm
 - * OTHER - 40mm
 - * MESH - 60mm TOP OF SLABS
 - CONCRETE FINISH:
 - * FORMED SURFACES - CLASS F1 (ROUGH)
 - * CONCEALED SURFACES - CLASS F2 (SMOOTH)
 - * EXPOSED SURFACES - CLASS F3 (SMOOTH)
 - * UNFORMED SURFACES - CLASS U1 (SCREEDED)
 - * TOP OF BASE AND TOP SLABS - U2 (WOOD FLOATED)
 - ALL SHARP EDGES TO HAVE 25mm CHAMFERS UNLESS OTHERWISE SPECIFIED. ALL BURIED SURFACES SHALL RECEIVE TWO COATS OF AN APPROVED BITUMINOUS WATER PROOF PAINT AND SHALL BE PREPARED AND PRIMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.
 - REINFORCEMENT
 - HIGH TENSILE STEEL IS SHOWN WITH THE PREFIX "Y" AND SHALL BE TYPE C CLASS 2, GRADE 1 TO SABS 920.
 - MILD STEEL IS SHOWN WITH THE PREFIX "R" ND SHALL BE TYPE A ROUND BARS TO SABS 920.
 - REINFORCEMENT TO BE BENT IN ACCORDANCE WITH SABS 920(1976).
 - BAR NOTATION : 20Y20-01-200
 - NO OF BAR BAR DIA. BAR MARK SPACING
20 Y20 01 200
 - ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE.
 - ALL CONCRETE WORK WORK TO COMPLY WITH SABS 12003.
 - ALL REINFORCING FIXING TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.

NEW UMFOLOZI RIVER DRIFT BENDING SCHEDULE

TYPE AND SIZE	BAR MARK NO.	NO. OF UNITS	NO. PER UNIT	TOTAL NO. BARS	BAR CUT LENGTH	SHAPE CODE	A	B	C	D	E	F	TOTAL Y-BAR MASS	TOTAL WELD-MESH	
Y20 01	1	64	64	2737	34	2437							433		
Y12 02	12	9	108	3625	55	920	220	920	1695				377		
Y16 03	12	9	108	2335	38	320	1695						390		
Y12 04	12	28	336	1940	20								579		
Y10 05	164	4	656	1160	35	350							478		
Y10 06	164	4	656	750	20								304		
Y12 07	2	562	1124	1400	38	600	200						1998		
Y12 08	2	26	52	12000	20								555		
Ref. 888	1	47	47			6000 x 2400 Weldmesh sheets							6010		
Ref. 888	1	10	10			6000 x 2400 Weldmesh sheets							1279		
													TOTAL (kg)	4523	7269

FOUNDATION CONDITIONS 1 & 2 FOUNDATION CONDITIONS 3 & 4

SPAN (m)	CLASS	TRENCHED ON UNYIELDING AND UNTRENCHED ON YIELDING		UNTRENCHED ON UNYIELDING				
		FLOOR THICKNESS D - (mm)	MAIN REINFORCEMENT	CLASS	FLOOR THICKNESS D - (mm)	MAIN REINFORCEMENT	DISTRIBUTION REINFORCEMENT	
1500	100 S	175	Y12-100	Y10-200	100 S	175	Y12-200	Y10-200
1600	75 S	190	Y12-190	Y10-200	75 S	190	Y12-200	Y10-200



BURRY SYSTEM IS ON RECORD

REDUCED PLAN USE SCALE BELOW

Scale 1:2500

UNDASA PROJECT PARTNERS

BABANANGO GAME RESERVE: ROADS AND STORMWATER UPGRADES

DETAIL 11: NEW CONCRETE DRIFT ON THE UMFOLOZI RIVER (FOR ROCK FOUNDATION ONLY)

US-DBN-TD05