

NOTES:

- GENERAL BRIDGE NOTES**

DESCRIPTION - THE BRIDGE IS A DOUBLE SPAN CONVENTIONALLY REINFORCED CONCRETE U-BEAM INTEGRAL WITH ABUTMENTS.

DESIGN METHOD - LIMIT STATE
DESIGN CODE - TM17 PART 3
- MATERIAL STRENGTHS & STRESSES**

CONCRETE:	CLASS(MPa/mm)
BLINDING	- 15/19
FOUNDATIONS	- 30/19
ABUTMENTS & PIERS	- 30/19
DECK	- 30/19

REINFORCEMENT:

MILD STEEL	- 250 MPa
HIGH-YIELD-STRESS STEEL	- 450 MPa
- SUBSTRUCTURE**
 - FOUNDATIONS**
FOUNDING DEPTHS TO BE DETERMINED ON SITE. FOUNDATIONS ARE TO BE SECURED INTO ROCK WITH 1/32 ROCK ANCHORS. ALL WORK TO BE IN ACCORDANCE TO ENGINEERS SPECIFICATION AND APPROVAL.
 - CONCRETE FINISHES TO FORMED & UNFORMED SURFACES**
DECK SURFACES: CLASS 3(a)
TOP OF DECK: FT SCREED FINISH
INTERNAL DECK SURFACES: CLASS 1
 - CONCRETE COVER**
CAST AGAINST EARTH - 40mm
FOUNDATIONS (SHUTTERED) - 40mm
EXPOSED SURFACES - 40mm
 - CHAMFERS TO ALL EXPOSED SHARP CORNERS**
25 x 25mm



BRIDGE SET LINE SETTING OUT CO-ORDINATES

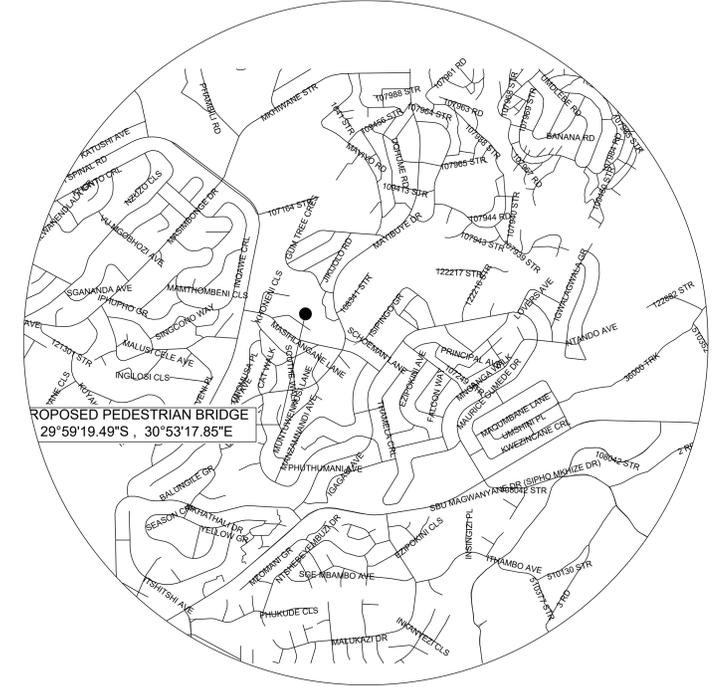
Point & Str. Element	Y Co-ordinate	X Co-ordinate
SL - 1	1989.764	3287876.781
SL - 2	1987.160	3287888.325
SL - 3	1983.944	3287865.046

NOTE :
ALL SET-LINE CO-ORDINATES TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.

BRIDGE CENTERLINE SETTING OUT CO-ORDINATES

Point & Str. Element	Y Co-ordinate	X Co-ordinate
CL - 1	1973.019	3287885.135
CL - 2	1955.703	3287881.230
CL - 3	1938.388	3287877.325

NOTE :
ALL CENTERLINE CO-ORDINATES TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.

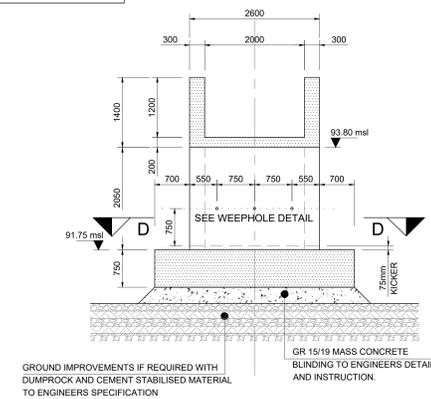


LOCALITY LAYOUT PLAN

SCALE 1 : 10 000

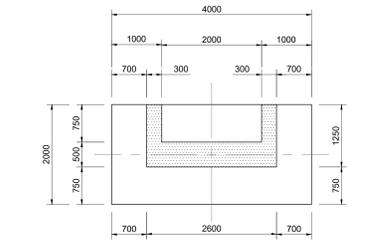
GENERAL NOTES :

ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELATED STRUCTURAL DRAWINGS.



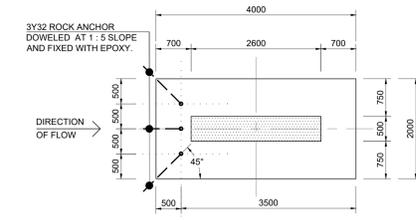
SECTION B - B : SHOWING EAST ABUTMENT (WEST ABUTMENT SIMILAR ROTATED 180°)

SCALE 1 : 50



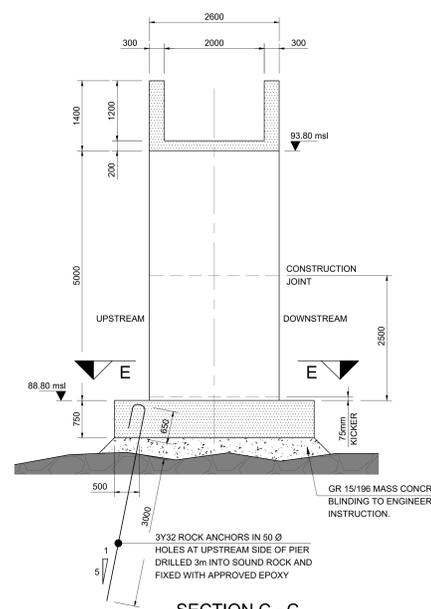
SECTION D - D : SHOWING ABUTMENT BASE

SCALE 1 : 50



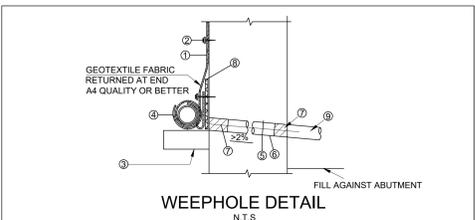
SECTION E - E : SHOWING PIER BASE

SCALE 1 : 50



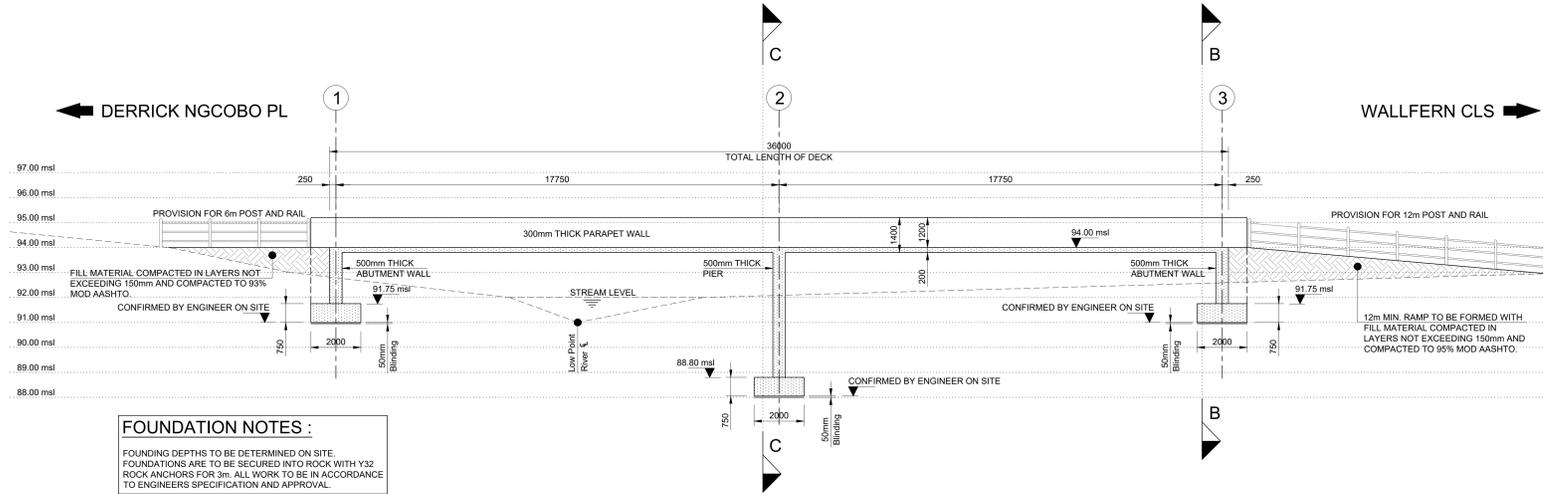
SECTION C - C

SCALE 1 : 50



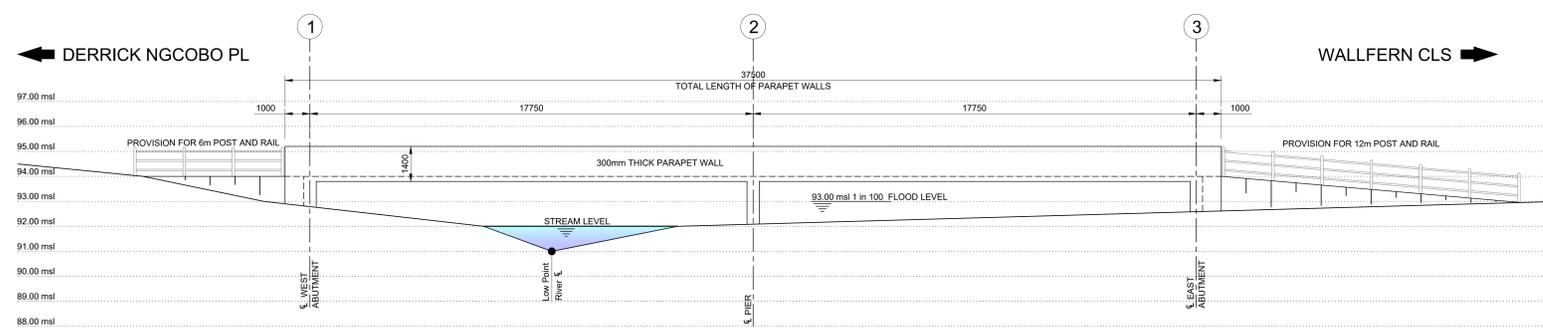
LEGEND

- 200mm WIDE FILTER ELEMENTS SECURED TO BACK FACE OF STRUCTURE AT 45° SLOPE.
- CONCRETE NAILS WITH 25 x 25mm HOOP IRON WASHERS TO SECURE FILTER ELEMENTS TO STRUCTURE AT ± 1 000mm CENTRES.
- CONCRETE SCREED TO GRADE AND LEVEL OF DRAINAGE PIPES PRIOR TO PLACING OF DRAINAGE PIPES.
- 65mm dia PERFORATED DRAINAGE PIPES WRAPPED IN GEOTEXTILE. THE GEOTEXTILE SHALL HAVE AN OVERLAP OF NOT LESS THAN 150mm AND BE TIED AT CENTRES NOT GREATER THAN 200mm.
- 3.15mm dia STAINLESS STEEL WIRE BARRIER.
- 50mm dia uPVC WEEP HOLES AT CENTRES SHOWN. THE CONTRACTOR SHALL ENSURE THAT THE WEEP HOLES ARE CLEAR AND APPROVED BY THE ENGINEER BEFORE THE FILTER ELEMENTS ARE INSTALLED.
- TEMPORARY POLYSTYRENE PLUG TO PREVENT INGRESS OF GROUT DURING PLACING OF THE CONCRETE.
- 200mm WIDE FILTER ELEMENT SECURED TO BACK FACE OF STRUCTURE AT SAME GRADE AS WEEP HOLES
- EXTENSION OF WEEP HOLES TO EMBANKMENT



SECTION A - A : THROUGH CENTERLINE OF BRIDGE

SCALE 1 : 100



DOWNSTREAM ELEVATION OF PEDESTRIAN BRIDGE

SCALE 1 : 100

Revision	Date	Prepared For Tender	Description
V1	10/10/2024	PREPARED FOR TENDER	

NOTE: No construction work to commence until land and servitude acquisitions have been completed.

Acquisitions completed:

Date	Engineer	UNDERGROUND SERVICES CHECKED
		SERVICE DATE SIGNATURE
		S.V. DRAINS
		SEWERS
		WATER MAINS
		U.P.V. CABLES
		ELECTRIC CABLES
		S.A.R. CABLES
		E.S.C. CABLES
		OIL PIPE LINE

NOTE: Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Whenever possible these must be located before work proceeds.

Contract No.	1R-27491
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WARD 86
PEDESTRIAN BRIDGE ON
HOW LONG PLACE -
MAYIBUYE DRIVE

Drawing Title
GENERAL ARRANGEMENT
LOCALITY PLAN, SECTIONS
AND ELEVATION OF
PEDESTRIAN BRIDGE

Scales :	AS SHOWN	Date :	10/10/2024
Designed :	X MKATI	Checked :	P FENTON J HARRIPERSHAD
Drawn :	X MKATI	Surveyed :	SURVEY DEPT.
Manager :	Structures P G Fenton	Deputy Head :	Roads Provision S MASONDO

G. EVANS	HEAD : ENGINEERING
Drawing No.	Sheet of 01 Rev. V1A

FOR CONSTRUCTION