KALABE LWSC

PLAN & PROFILE OF LWSC AND APPROACH ROAD

LEGEND

BUILDING / STRUCTURE
FOREST
SWAMP
WATER BODY
HUMP
RUMBLE STRIPS
CULVERT (PLAN)
CULVERT (PROFILE)
TREE
R.O.W
GATE
POLE (ELECTRIC/TELE-LIGHT)
DRAIN
BENCH MARK/ SURVEY CONTROL
CABLE
SIGN POST
FENCE
BRIDGE
BORE-HOLE
MAN HOLE

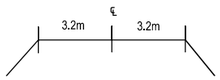
DESIGN SPEED

50KPH

OPERATION SPEED

30KPH

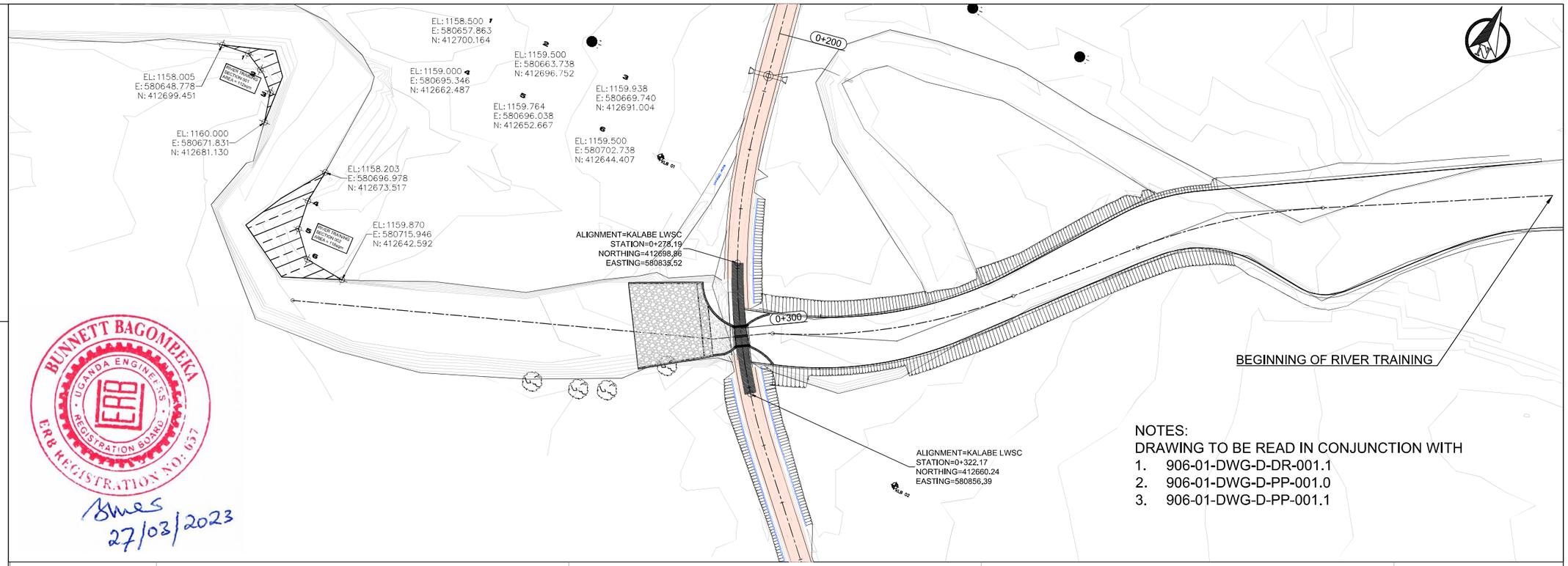
TYPICAL CROSS SECTIONS



PAVEMENT DESIGN

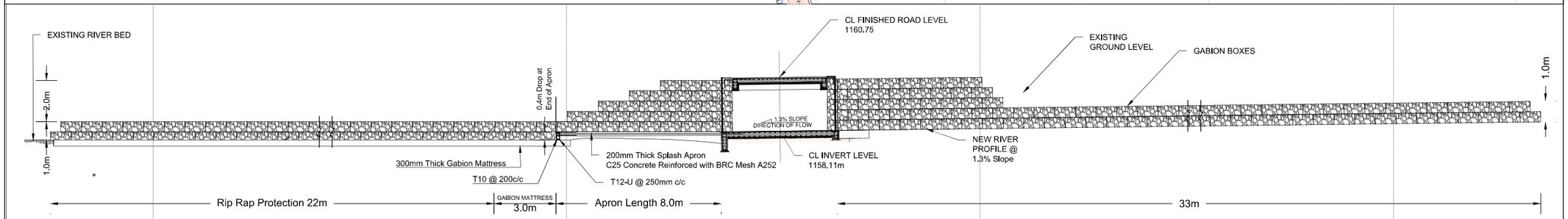
LWSC
CONCRETE
HARD CORE
GABION MATTRESS
CRUSHED STONE
GRANULAR FILL

LWSC APROACH ROAD
GRAVEL WEARING COURSE



BUNNETT BAGOMPEKA
UGANDA ENGINEERS REGISTRATION BOARD
ERB REGISTRATION NO: 657
27/03/2023

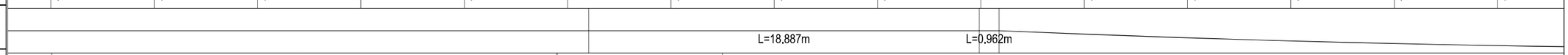
NOTES:
DRAWING TO BE READ IN CONJUNCTION WITH
1. 906-01-DWG-D-DR-001.1
2. 906-01-DWG-D-PP-001.0
3. 906-01-DWG-D-PP-001.1



RIVER TRAINING DETAIL

CHAINAGE (KM)	0+115	0+120	0+125	0+130	0+135	0+140	0+145	0+150	0+155	0+160	0+165	0+170	0+175	0+180	0+185
FINISHED ROAD LEVEL - CL (m)	1157.666	1157.666	1157.666	1157.666	1157.666	1158.066	1158.066	1158.097	1158.161	1158.224	1158.287	1158.350	1158.413	1158.476	1158.539
EXISTING GROUND LEVEL - CL(m)	1157.941	1157.824	1157.723	1157.621	1157.700	1157.780	1158.889	1159.675	1159.735	1159.904	1160.032	1160.078	1160.138	1160.202	1160.271
FILL (+) / CUT(-) (m)	-0.275	-0.158	-0.057	0.044	-0.034	0.286	-0.824	-1.578	-1.574	-1.681	-1.745	-1.728	-1.725	-1.726	-1.732

HORIZONTAL SCHEMATIC



VERTICAL SCHEMATIC

SUPERELEVATION

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MBW CONSULTING
Plot 107 Kira Road, Kamwokya,
P.O.Box 8493, Kampala-Uganda
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FUNDER:
USAID FROM THE AMERICAN PEOPLE

CLIENT:
Uganda Wildlife Authority
@ugandawildlifeautority
PO Box 3530, Kampala,
Uganda
Tel +256-41-355114, 355111,
355118

PROJECT NAME:
USAID / Uganda Architect & Engineering Design and Construction Management Consulting Services

ACTIVITY NAME:
Infrastructure for Biodiversity Conservation in Kidepo Valley NP

DRAWING DESCRIPTION:
PLAN AND LONGITUDINAL PROFILE
KALABE LWSC: BOX CULVERT CROSS-SECTION

DESIGNED BY: BK
DRAWN BY: JMK
CHECKED BY: BK
APPROVED BY: WF

REV. No.	DATE	DESCRIPTION OF REVISION	BY

ENGINEER'S SEAL

SCALE: HORIZONTAL VERTICAL
A1 SCALE 1:1000 1:100
A3 SCALE 1:2000 1:200
REF FILE:
STATUS: DETAILED DESIGN
DATE: MAR 2023
PAPER:
DRAWING NUMBER: 906-01-DWG-D-PP-001

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LEGEND

BUILDING / STRUCTURE
FOREST
SWAMP
WATER BODY
HUMP
RUMBLE STRIPS
CULVERT (PLAN)
CULVERT (PROFILE)
TREE
R.O.W
GATE
POLE (ELECTRIC/TELE LIGHT)
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BENCH MARK/ SURVEY CONTROL
CABLE
SIGN POST
FENCE
BRIDGE
BORE-HOLE
MAN HOLE

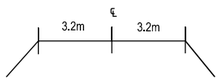
DESIGN SPEED

50KPH

OPERATION SPEED

30KPH

TYPICAL CROSS SECTIONS



PAVEMENT DESIGN

LWSC
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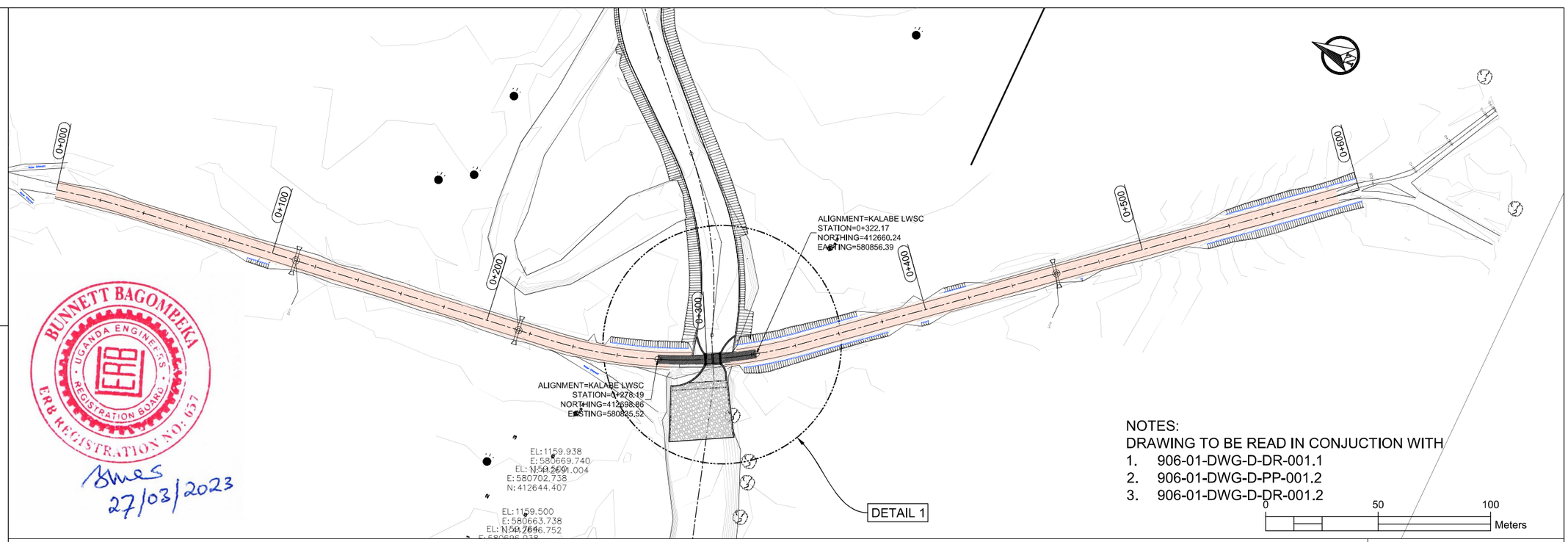
HARD CORE
GABION MATTRESS
CRUSHED STONE
GRANULAR FILL

LWSC APROACH ROAD
GRAVEL WEARING COURSE



BUNNETT BAGOMPEKA
UGANDA ENGINEERS REGISTRATION BOARD
ERB REGISTRATION NO: 657
27/03/2023

NOTES:
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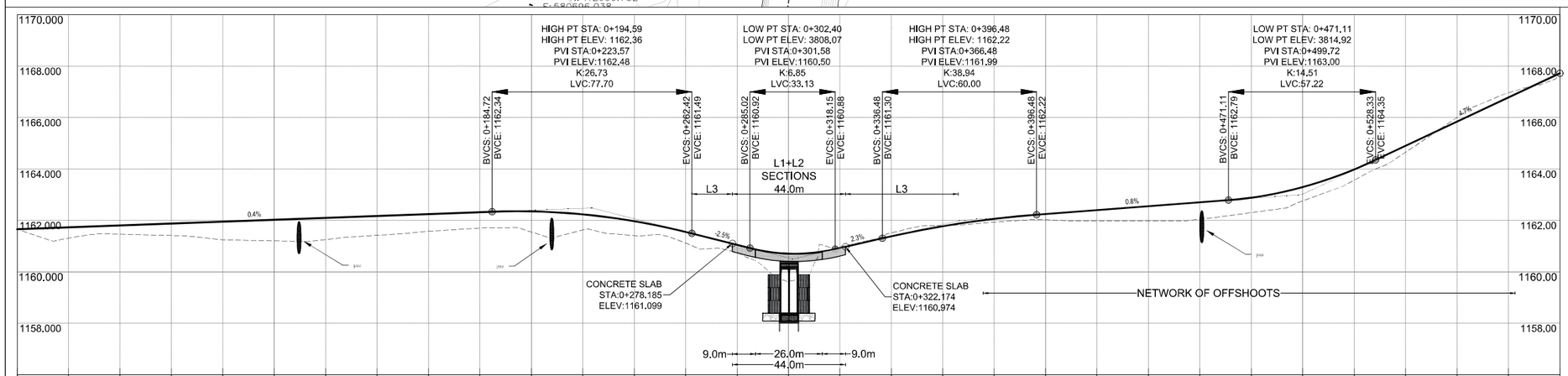
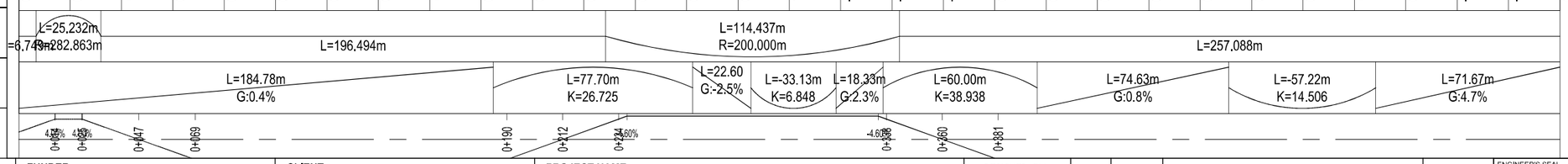
1. 906-01-DWG-D-DR-001.1
2. 906-01-DWG-D-PP-001.2
3. 906-01-DWG-D-DR-001.2

0 50 100 Meters



CHAINAGE (KM)	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600
FINISHED ROAD LEVEL - CL (m)	1161.655	1161.729	1161.803	1161.876	1161.950	1162.024	1162.098	1162.172	1162.246	1162.320	1162.350	1162.235	1161.970	1161.555	1161.048	1160.705	1160.924	1161.383	1161.773	1162.061	1162.248	1162.399	1162.551	1162.703	1162.882	1163.294	1163.982	1164.899	1165.840	1166.780	1167.721
EXISTING GROUND LEVEL - CL(m)	1161.654	1161.309	1161.462	1161.413	1161.245	1161.204	1161.255	1161.419	1161.575	1161.701	1161.550	1161.629	1161.410	1161.119	1160.756	1159.635	1160.977	1161.512	1161.798	1161.931	1162.025	1161.981	1161.982	1162.044	1162.300	1162.760	1163.562	1164.652	1166.003	1166.959	1167.721
FILL (+) / CUT(-) (m)	0.000	0.419	0.341	0.464	0.705	0.820	0.843	0.753	0.671	0.619	0.800	0.606	0.560	0.436	0.292	1.069	-0.053	-0.130	-0.025	0.130	0.222	0.419	0.569	0.659	0.582	0.535	0.421	0.247	-0.163	-0.179	0.000



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0701 740800
Email: mbw@mbw.co.ug

FUNDER:
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CLIENT:
UWA Conserving for Generations
Uganda Wildlife Authority
@ugandawildlifeautority
PO Box 3530, Kampala,
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Tel +256-41-355114, 355111,
355118

PROJECT NAME:
USAID / Uganda Architect & Engineering Design and Construction Management Consulting Services

ACTIVITY NAME:
Infrastructure for Biodiversity Conservation in Kidepo Valley NP

DRAWING DESCRIPTION:
PLAN AND LONGITUDINAL PROFILE
KALABE LWSC AND APPROACH ROADS

DESIGNED BY: BK
DRAWN BY: JMK
CHECKED BY: BK
APPROVED BY: WF

REV. No.	DATE	DESCRIPTION OF REVISION	BY

ENGINEER'S SEAL

SCALE: HORIZONTAL 1:1000 VERTICAL 1:100 (A1) 1:2000 1:200 (A3)
REF FILE:
STATUS: DETAILED DESIGN
DATE: MAR 2023
PAPER:
DRAWING NUMBER: 906-01-DWG-D-PP-001.0

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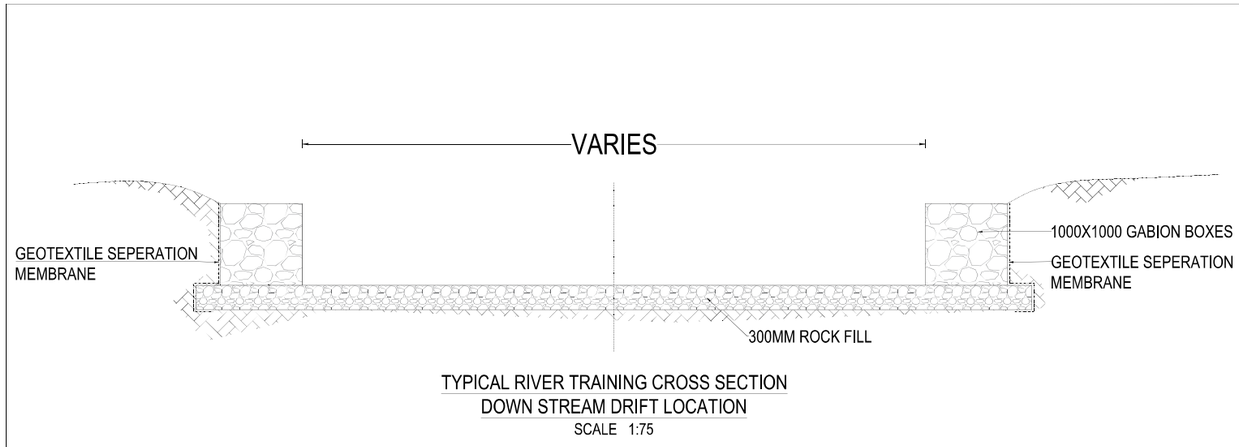
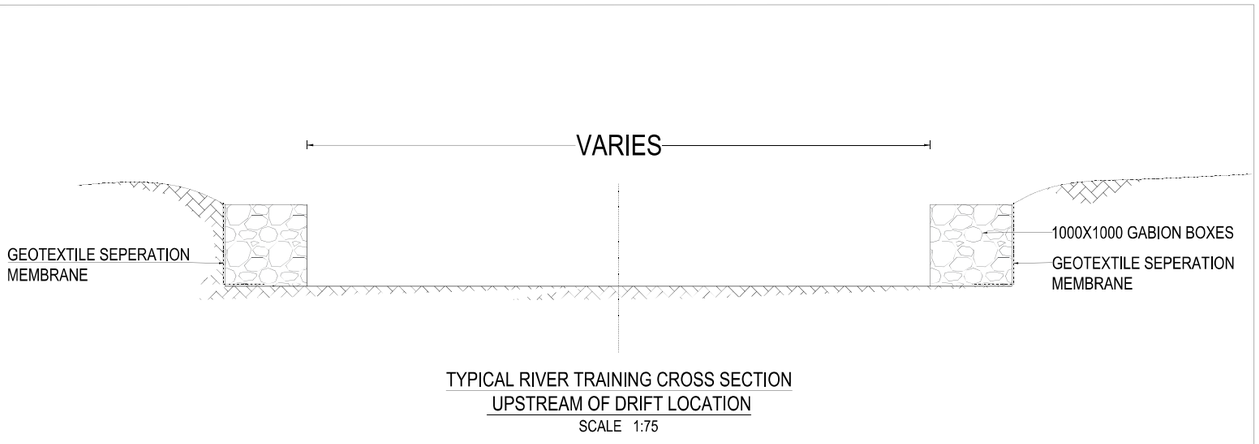
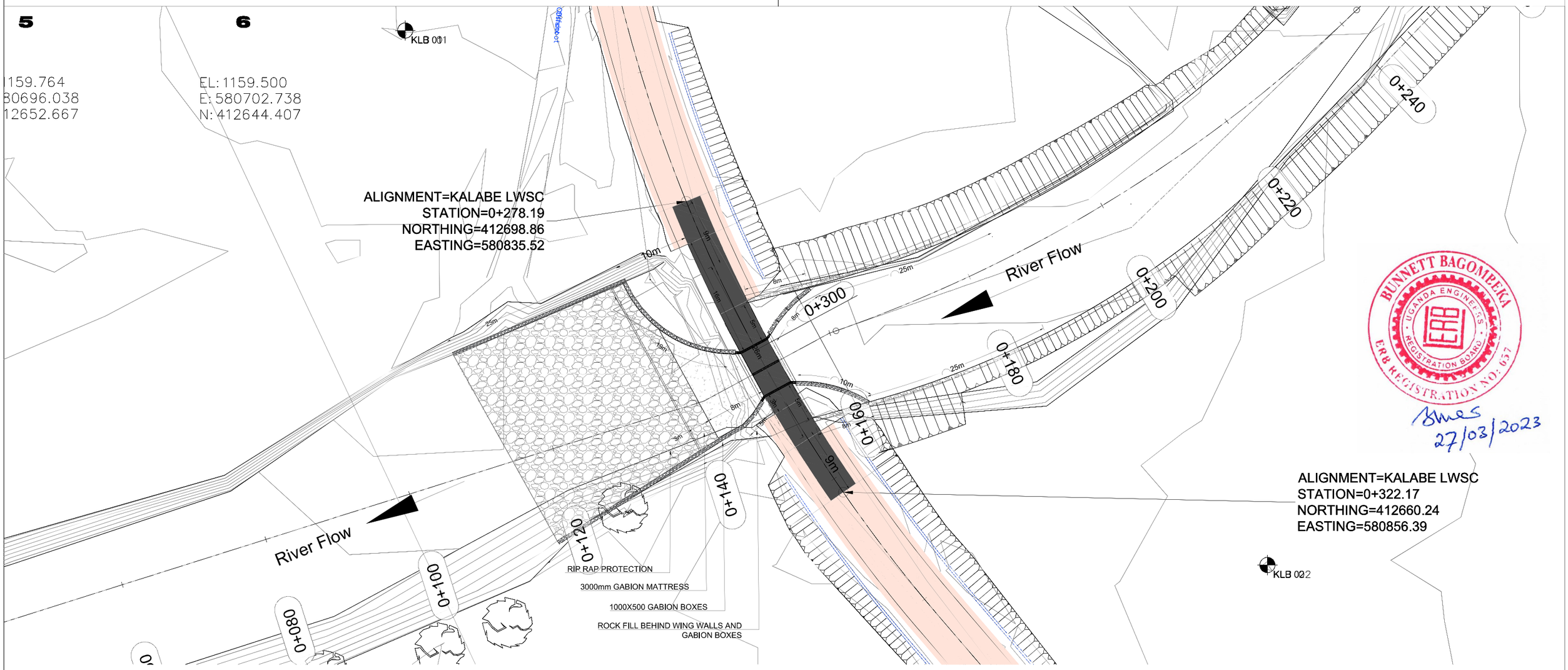


TYPICAL RIVER TRAINING CROSS SECTION
DOWN STREAM DRIFT LOCATION
SCALE 1:75



TYPICAL RIVER TRAINING CROSS SECTION
UPSTREAM OF DRIFT LOCATION
SCALE 1:75



DETAIL 1: KALABE LWSC BANK PROTECTION
Scale 1:500

BUNNETT BAGOMEEKA
UGANDA ENGINEERS REGISTRATION BOARD
ERB REGISTRATION NO: 657
27/03/2023

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Uganda
Tel +256-41-355114, 355111,
355118

PROJECT NAME:
USAID / Uganda Architect & Engineering Design and Construction Management Consulting Services

ACTIVITY NAME:
Infrastructure for Biodiversity Conservation in Kidepo Valley National Park

DRAWING DESCRIPTION:
Low Water Stream Crossings and Approach Roads
Detail 01: Typical River Scour Protection For Kalabe

DESIGNED BY:	SRO
DRAWN BY:	J.M.K
CHECKED BY:	BK
APPROVED BY:	WF

REV. No	DATE	DESCRIPTION OF REVISION	BY

ENGINEER'S SEAL

SCALE: AS NOTED
REF FILE: –
STATUS: DETAILED DESIGN
DATE: MAR 23
PAPER: A3
DRAWING NUMBER: 906-01-DWG-D-DR-001

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