INFRASTRUCTURE FOR BIODIVERSITY CONSERVATION IN KIDEPO VALLEY NP - IMILINY RANGER PC LIST OF DRAWINGS 2

Drawing Description	Drawing No.	Revision
OFFICE AND STORE BLOCK		
Imiliny RP Office & Store Block _ Floor layout	906-01-DWG-A301	
Imiliny RP Office & Store Block _ Elevations	906-01-DWG-A302	
Imiliny RP Office & Store Block _ Door & Window Schedules	906-01-DWG-A303	
Imiliny RP Office & Store Block _ Section A-A	906-01-DWG-A304	
Imiliny RP Office & Store Block _ Foundation layout & Details	906-01-DWG-5301	
Imiliny RP Office	906-01-DWG-5302	
Imiliny RP Office & Store Block _ Ring Beam layout & Details	906-01-DWG-5303	
Imiliny RP Office \$ Store Block _ Roof layout \$ Truss Details	906-01-DWG-5304	
Imiliny RP Office \$ Store Block _ Reinforced Concrete Wall etails	906-01-DWG-5305	
Imiliny RP Office & Store Block _ Electrical layout	906-01-DWG-E301	
Imiliny RP Office & Store Block _ Electrical Schematics	906-01-DWG-E302	
Imiliny RP Office \$ Store Block _ Earthing layout \$ Details	906-01-DWG-E303	
KITCHEN BLOCK_3No.		
Imiliny RP Kitchen Block _ Floor layout & Door/Window chedule	906-01-DWG-A401	
Imiliny RP Kitchen Block _ Elevations	906-01-DWG-A402	
Imiliny RP Kitchen Block _ Sectional Elevations	906-01-DWG-A403	
Imiliny RP Kitchen Block _ Typical Section & Bench Details	906-01-DWG-A404	
Imiliny RP Kitchen Block _ Foundation layout & Details	906-01-DWG-5401	
Imiliny RP Kitchen Block _ Ground Beam layout & Details	906-01-DWG-5402	
Imiliny RP Kitchen Block _ Ring Beam layout & Details	906-01-DWG-5403	
Imiliny RP Kitchen Block _ Roof layout	906-01-DWG-5404	
Imiliny RP Kitchen Block _ Truss & Fixing Details	906-01-DWG-5405	
Imiliny RP Kitchen Block _ Electrical layout & Schematics	906-01-DWG-E401	
Imiliny RP Kitchen Block _ Earthing layout & Details	906-01-DWG-E402	

	Drawing D	escri	ption		
4 STA	NCE VIP TO	DILET	BLOCI	K_2No.	
Imiliny RP Toilet E	Block _ VIP la	trine	Floor	Layout & Sched	dule
Imiliny RP Toilet E	Block _ VIP la	trine	Elevat	IONS	
Imiliny RP Toilet E	Block _ Bathr	oom	Layout	∉ Elevations	
Imiliny RP Toilet E	Block _ Abso	ptior	ı Field	Layout & Secti	ons
Imiliny RP Toilet E	Block _ VIP la	trine	¢ Batł	room Section	A-A
Imiliny RP Toilet E	Block _ VIP la	trine	Roof [Details	
Imiliny RP Toilet E	Block _ VIP la	trine	Found	ation & Slab De	eta
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Imiliny RP Toilet E Details	Block _ VIP la	trine	Suspe	ended walkway	
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USAID / Uganda Architect & Engineering Design and Construction	BB			
Management Consulting Services	DRAWN BY:			
ACTIVITY NAME:	ВК			
Infrastructure for Biodiversity Conservation in Kidepo Valley NP	CHECKED BY:			
DRAWING DESCRIPTION:	BB			
Imiliny Ranger Post _ List of Drawing	APPROVED BY:			
LIST OF DRAWINGS 2	WF	REV. No.	DATE	DESCRIPTION OF

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	906-0	I-DWG-	A602					
	906-0	I-DWG-	5601					
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1. GENERAL

THE STRUCTURES AND THEIR COMPONENTS ARE DESIGNED ACCORDING TO THE 11 CRTERIA INDICATED BY THE REGULATIONS BELOW. ALL THE REGULATIONS BELOW ARE IN THE LATEST VERSIONS: INTERNATIONAL DESIGNS CODES. EN 1990 - 'EUROCODE 0: BASIS OF STRUCTURAL DESIGN" EN 1991 - 'EUROCODE 1: ACTIONS ON STRUCTURES" EN 1992 - 'EUROCODE 2: DESIGN OF CONCRETE STRUCTURES" EN 1993 - 'EUROCODE 3: DESIGN OF STEEL STRUCTURES" EN 1995 - 'EUROCODE 5: DESIGN OF TIMBER STRUCTURES" EN 1997 - 'EUROCODE 7: GEOTECHNICAL DESIGN" EN 1998 - 'EUROCODE 8: DESIGN OF STRUCTURES FOR EARTHQUAKE RESISTANCE" IN HARMONISATION OF PROFESSIONAL PRACTICE AND ENSURING APPROPRIATE 1.2. LEVELS OF SAFTETY. HEALTH AND ECONOMY WITH DUE CONSIDERATION OF THE OBJECTIVES CONDITIONS AND NEED OF THE CONSTRUCTION THE STANDARD SPECIFICATION FOR BUILDING WORKS FOR MINISTRY OF WORKS HOUSING AND COMMUNICATIONS SHOULD BE APPLIED HAND IN HAND WITH THE NAMED STANDARDS. ALL DIMENSIONS ARE IN MM. DIMENSIONS ARE NOT TO BE SCALED FROM THE 1.3. DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE 14 RELEVANT ARCHITECTURAL DRAWINGS, SPECIFICATIONS, BILLS OF QUANTITIES AND ALL OTHER RELEVANT DOCUMENTS. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE 1.5. COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE EXECUTION. ALL CONCRETE SIZES AND LEVELS ARE FOR STRUCTURAL ELEMENTS UNLESS 1.6. OTHERWISE NOTED. 1.7. ALL OPENINGS FOR PIPING AND CONVEYANCE SHALL BE FORMED IN POSITION BEFORE THE CASTING OF CONCRETE. FOR LOCATION OF OPENINGS REQUIRED FOR M & E INSTALLATION REFER TO THE RELEVANT M & E DRAWINGS. 1.8. NO HOLES OR CHASES ARE PERMITTED IN THE CONCRETE MEMBERS OTHER THAN AS DETAILED OR UNLESS APPROVED BY THE ENGINEER. CONSTRUCTION JOINTS SHALL BE LOCATED TO THE APPROVAL OF THE 1.9. ENGINEERS. 1.10. ANY DAMAGE CAUSED TO ANY CIVIL/ STRUCTURAL WORK SHALL BE REINSTATED TO ITS ORIGINAL CONDITION WITH NO COST IMPLICATION TO THE CLIENT. 1.11. ELECTRICAL CONDUITS SHOULD NOT BE PLACED WITHIN THE CONCRETE REINFORCEMENT COVER OF THE STRUCTURAL ELEMENTS.

2. ANTI TERMITE TREATMENT

FOUNDATION TRENCHES AND PITS SHALL REC 21 PLACING OF ANY MATERIALS AND SECOND RO CARRIED OUT PRIOR TO CONSTRUCTION OF T CONTRACTOR SHALL SUPPLY NECESSARY INF MANUFACTURES FOR ENGINEER'S APPROVAL

3. FOUNDATIONS

- BOTTOM OF EXCAVATIONS FOR WALLS & COL 3.1. COMPACTED PRIOR TO LAYING OF BLINDING.
- FOUNDATION EXCAVATION DEPTH TO BE APPE 3.2 THE CONSTRUCTION OF FOUNDATIONS.
- CONTRACTOR SHALL CARRYOUT BACK FILLING OF EXCAVATIONS FOR 3.3. FOUNDATIONS, USING APPROVED BACKFILL MATERIAL.

TIMBER 4

- 4.1. ALL TIMBER FOR CARPENTRY WORKS SHALL BE HARDWOOD TIMBER.
- 4.2. ALL TIMBER FOR CARPENTRY WORKS SHALL BE VACUUM PRESSURE TREATED WITH CELCURE OR TARNALITH OR OTHER APPROVED MEDIUM TOXIC TO TERMITES AND OTHER TIBER PESTS.(CRYPTO TERMES BREVIS)
- 4.3. ALL CUT ENDS OF TIMBER SO IMPREGNATED ARE TO BE TREATED WITH TWO COATS OF WYKABOR10.1 OR OTHER APPROVED TREATMENT.
- 4.4. PRESSURE TREATMENT SHALL BE CARRIED OUT BY A SPECIALIST FIRM WITH APPROVED EQUIPMENT. THE ONE WHO UNDERTAKES THE TREATMENT SHALL SUPPLY A CERTIFICATE OF COMPLIANCE TO THE CONTRACTOR.
- 4.5. TIMBER SHALL BE SEASONED AFTER PRESEVATIVE TREATMENT HAS BEEN CARRIED OUT TO MOISTURE CONTENT AS SHOWN IN TABLE BELOW.

Position	Moiture Content of Timber Timber in its Permanent Position %	Moiture Content of Timber Timber at Time of erection %
Purlins, Rafters, battens, etc	15	22
Floor joists	15	22
T and G flooring	12-14	15-22

4.6. AFTER DELIVERY TO SITE TIMBER SHALL BE CAREFULLY STACKED TO ENSURE A FREE CIRCULATION OF AIR THROUGHOUT THE STACK AND COVERED WITH A WATER PROOF COVER TO PREVENT EXCESSIVE DRING BY SUN OR REABSORPTION OF RAINWATER.



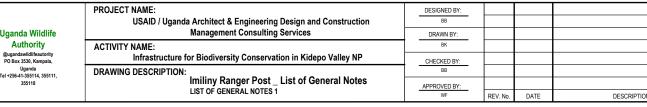




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5. REINFORCEMENT

- UNLESS OTHERWISE SPECIFIED, ALL STEEL REINFORCEMENT BARS AND WELDED 5.1. STEEL FABRIC REINFORCEMENTS (WSFR) SHALL COMPLY WITH THE REQUIREMENTS OF EUROCODE 2.
- 'R' DENOTES MILD STEEL OF YIELD STRENGTH = 250 N/MM² 5.2. 'T' DENOTES HIGH TENSILE DEFORMED BARS (TYPE 2) OF YIELD STRENGTH = 460 N/MM²
- CONCRETE COVER TO OUTERMOST REINFORCEMENT, INCLUDING LINKS, SHALL BE 5.3. AS FOLLOWS :

STRUCTURAL ELEMENTS	IN CONTACT WITH GROUND	OTHER
SLABS	50 mm	20 mm
BEAMS	50 mm (TOP) 50 mm (SIDE & BOT.)	25 mm
COLUMNS	50 mm	40 mm
FOOTINGS	50 mm	

- WELDING OF REINFORCEMENT WILL NOT BE PERMITTED WITHOUT THE APPROVAL 54 OF THE ENGINEER.
- ALL BARS SHALL BE CUT AND BENT TO CONFORM TO EUROCODE 2. 5.5. UNLESS OTHERWISE STATED IN THE DRAWINGS, THE MINIMUM LAP LENGTH FOR REINFORCEMENT SHALL BE 50 TIMES THE DIA. OF SMALLER BAR IN THE LAP.

BAR SIZE (mm)	6	10	12	16	20	25	32
T = HIGH YIELD STEEL	-	500	600	800	1000	1200	1330
R = MILD STEEL	300	-	-	-	-	-	-

BAR SIZE (mm)	Α	В	С
T32	1100	-	900
T25	850	-	700
T20	700	-	330
T16	330	450	450
T12	400	400	400
T10	-	300	-

ALL BARS AT THE ENDS OF THE BEAMS WHERE THE BEAM IS NO MORE 5.6. CONTINUOUS SHALL BE ANCHORED EITHER STRAIGHT OR BENT (DEPENDING ON THE WIDTH OF THE SUPPORT) AS SHOWN BELOW. THESE SHALL NOT BE USED IN CANTILEVERED BEAMS OR SLABS. THE ACTUAL DESIGN DRAWING SHALL BE STRICTLY ADHERE TO.

6. CONCRETE

- UNLESS OTHERWISE SPECIFIED, ALL STRUCTURAL CONCRETE MIX TO BE OF GRADE 25 6.1
- ALL CONCRETE STRENGTHS ARE 28 DAYS CUBE STRENGTH. 6.2
- UNLESS OTHERWISE SPECIFIED, A LAYER OF 50mm THICK GRADE 15 CONCRETE TO BE 6.3 PROVIDED BELOW ALL REINFORCED CONCRETE STRUCTURES IN CONTACT WITH THE GROUND.
- UNLESS OTHERWISE SPECIFIED, ALL LEAN CONCRETE MIX TO BE OF GRADE 15. 6.4
- MAXIMUM AGGREGATE SIZE SHALL BE 20mm. 6.5
- 6.6 CURING OF CONCRETE
 - EXPOSED CONCRETE SURFACES SHOULD BE COVERED WITH DAMP ABSORBENT MATERIAL AFTER PLACING CONCRETE.
 - THEY SHOULD BE KEPT CONTINUOUSLY WET BY FREQUENT SPRAYING OF WATER.
 - FORMWORK.
 - MINIMUM PERIOD OF CURING IS 4 DAYS.
- 6.7 REMOVAL OF SHUTTERING:

STRUCTURAL ELEMENTS	MINIMUM PERIOD
VERTICAL FORMWORK TO COLUMNS AND WALLS	24 HOURS
SOFFIT FORMWORK TO SLABS	10 DAYS
SOFFIT FORMWORK TO BEAMS	10 DAYS
PROPS TO BEAMS	14 DAYS

GRADE OF CONCRETE 6.8

CONCRETE	CUBE/ CYLINDER	CHARACTERISTIC STRENGTH, N/mm ²
BLINDING SCREED / LEVELING CONCRETE	C15, (C12)	15
MASS CONCRETE	C20, (C15)	20
STRUCTURAL CONCRETE	C25, (C20)	25
WATER RETAINING STRUCTURES	C35A, (C30A)	35

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	Plot 107 Kira Road, Kanwokya,		Uganda Wildlife	Management Consulting Services	DRAWN BY:			
	P.D.Box 8493, Kampala-Uganda Tel: +256 (0)393 740800 /		Authority	ACTIVITY NAME:	ВК			
	0)701 740800		@ugandawlidlifeautority PO Box 3530, Kampala,	Infrastructure for Biodiversity Conservation in Kidepo Valley NP	CHECKED BY:			
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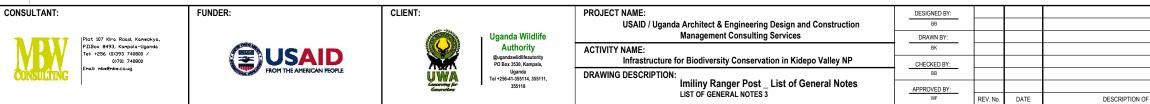
IN COLUMNS CURING SHOULD BE STARTED IMMEDIATELY AFTER REMOVAL OF

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7. STRUCTURAL STEEL WORK

- 7.1 CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
- 7.2 FABRICATION AND ERECTION OF STRUCTURAL STEELWORKS SHALL IN GENERAL BE CARRIED OUT IN ACCORDANCE WITH EUROCODE 3.
- 7.3 UNLESS OTHERWISE SPECIFIED ALL BOLTS SHALL BE BLACK BOLTS.
- ALL BOLTS AND NUTS SHALL COMPLY EUROCODE 3. 7.4
- 7.5 THE LENGTH OF HOLDING DOWN BOLTS INDICATED ON THE RESPECTIVE DRAWINGS REFER TO THE PENETRATION DEPTH ONLY.
- UNLESS OTHERWISE SPECIFIED, THE MATERIALS FOR ALL STRUCTURAL STEEL WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS: 7.6
 - a. BS EN 10025:1993 HOT ROLLED PRODUCTS OF NON-ALLOY STRUCTURAL STEELS
 - b. BS EN 10056:1993 STRUCTURAL STEEL EQUAL AND UNEQUAL LEG ANGLES DIMENSIONS
 - BS EN 10113:1993 HOT ROLLED PRODUCTS IN WELDABLE FINE GRAIN STRUCTURAL STEELS C.
 - BS EN 10210:1994 HOT FINISHED STRUCTURAL HOLLOW SECTIONS OF NON-ALLOY AND FINE GRAIN STRUCTURAL STEEL d
 - BS EN 10219:1997 COLD FORMED WELDED STRUCTURAL HOLLOW SECTIONS OF NON-ALLOY AND FINE GRAIN STEELS e.
- 7.7 THE USE OF HIGH STRENGTH FRICTION GRIP (SHFG) BOLTS AND ASSOCIATED NUTS AND WASHERS SHALL COMPLY WITH BS 43EN 14399 AND SHALL BE IN ACCORDANCE WITH EUROCODE 3.
- 7.8 ALL METAL ARC WELDING SHALL BE DONE IN ACCORDANCE WITH BS EN 1011. ELECTRODES USED SHALL COMPLY WITH BS EN 499.
- UNLESS OTHERWISE SPECIFIED, ALL OPEN ENDS OF HOLLOW SECTIONS ARE TO BE COVERED WITH 6MM THICK MILD STEEL PLATE WELDED ALL ROUND. 7.9
- ENDS OF COLUMNS, RAFTERS AND ALL PLATE EDGES SHALL BE CUT CLEAN AND SQUARE TO ENSURE GOOD FIT BETWEEN COMPONENTS 7.10
- 7.11 ALL FILLET WELDS ARE TO BE 6mm THICK CONTINUOUS UNLESS OTHERWISE SPECIFIED.
- 7.12 ALL BASE PLATES SHALL BE SET ON 25mm MINIMUM HIGH STRENGTH NON-SHRINK GROUT.
- 7.13 ALL DIRT. GRIT. OIL. RUST AND MILL SCALES ARE TO BE REMOVED BEFORE ANY COAT OF PAINT CAN BE APPLIED.
- ALL STRUCTURAL STEEL WORK SHALL BE SAND BLASTED. PAINTED WITH 1 COAT OF AN APPROVED RUST-INHIBITIVE PRIMER. 1 COAT OF AN APPROVED UNDERCOAT AND 2 FINISHING COATS 7.14 OF APPROVED EPOXY PAINT.
- CONSIDERATION SHALL BE GIVEN TO THE STABILITY AND SAFETY OF STEEL FRAMEWORK DURING ERECTION. THE CONTRACTOR SHALL ENSURE THAT THE STRUCTURE IS NOT SUBJECT TO 7.15 EXCESSIVE DEFLECTION OR STRESS DURING ERECTION.
- STRUCTURAL STEEL MEMBERS WHICH ARE TO BE ENCASED IN CONCRETE SHALL BE LEFT UNPAINTED AND SHALL BE CLEAN AND FREE FROM LOOSE RUST AND SCALE AT THE TIME 7.16 OF CONCRETING.
- 7.17 ALL GALVANIZED STRUCTURAL STEEL WORK SHALL BE HOT-DIPPED GALVANIZED WITH A MINIMUM COATING MASS OF 450 g/m². THE GALVANIZED COATING ON ALL STEEL MEMBERS SHALL CONFORM TO THE REQUIREMENT OF BS EN 1461:1999.
- 7.18 ALL OTHER PRECAUTIONS FOR CLEANING AND RUST PREVENTION OF STRUCTURAL STEEL AS MENTIONED IN SPECIFICATIONS AND/OR ARCHITECTURAL DRAWING SHALL BE DONE AS DEEMED NECESSARY BY THE ENGINEER.
- 7.19 UNLESS OTHERWISE SPECIFIED ALL STRUCTURAL STEEL SHALL BE OF GRADE 43A(py= 275 N/mm²) OR AN EQUIVALENT
- BOLT HOLE DIAMETER TO BE (BOLT DIA. + 2mm) UNLESS OTHER WISE STATED. 7.20



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8. STIFFENERS & LINTEL DETAILS

8.1 VERTICAL & HORIZONTAL RC STIFFENERS FOR ALL BRICK WALLS

SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAILS GIVEN BELOW :

	REINFORCEMENT DETAILS								
RC MEMBERS	150mm BRICk	K WALL							
VERTICAL STIFFENERS	@ 4000 C/C WITH 4T12 AND R6-150 C/C LINKS								
HORIZONTAL STIFFENERS	@ 4000 C/C WITH 4T12 AND R6-200 C/C LINKS								

8.2 SCHEDULE OF LINTELS

LOCATION	MAIN R/F	STIRRUPS	SECTION
OPENINGS UPTO 1m FOR 150mm WALLS	2T12		10 6
OPENINGS 1m TO 1.4m FOR 150mm WALLS	2T12		
OPENINGS 1.4m TO 1.8m FOR 150mm WALLS	4T12	R6-150 C/C	
OPENINGS 1.8m TO 3m FOR 150mm WALLS	4T12	R6-150 C/C	
OPENINGS UPTO 1.2m FOR 350mm THICK WALLS	3T12	R6-200	50 C 0 3

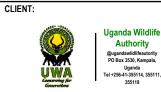
* FOR OPENINGS GREATER THAN 3.0m CHECK WITH STRUCTURAL DESIGNER.







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 PROJECT NAME: USAID / Uganda Architect & Engineering Design and Construction Management Consulting Services
 DESIGNED BY: BB
 Imagement Consulting Services

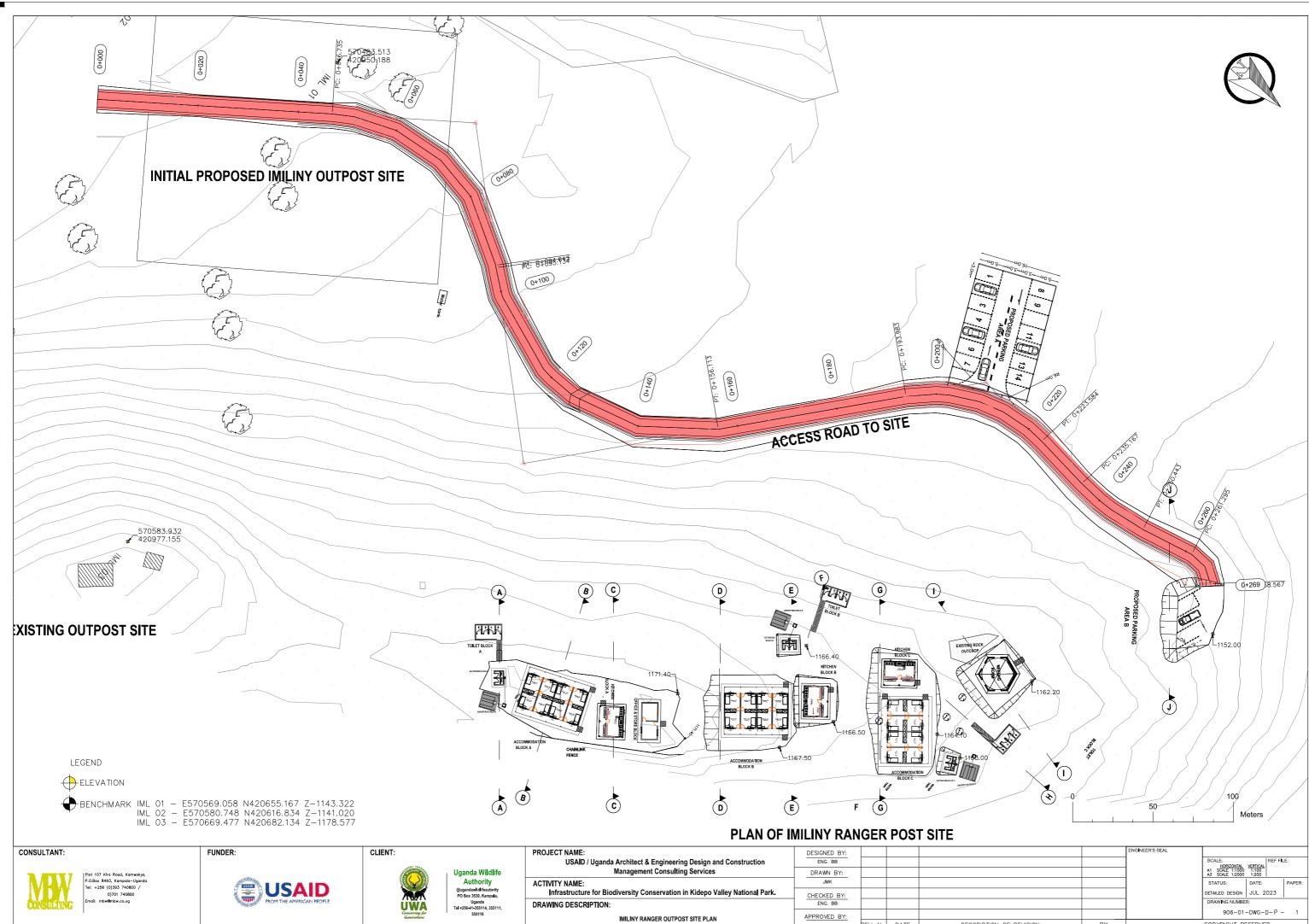
 ACTIVITY NAME: Infrastructure for Biodiversity Conservation in Kidepo Valley NP
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 Imagement Conservation in Kidepo Valley NP

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SITE LAYOUT & GRADING SECTIONS

IMILINY RANGER POST SITE PLAN



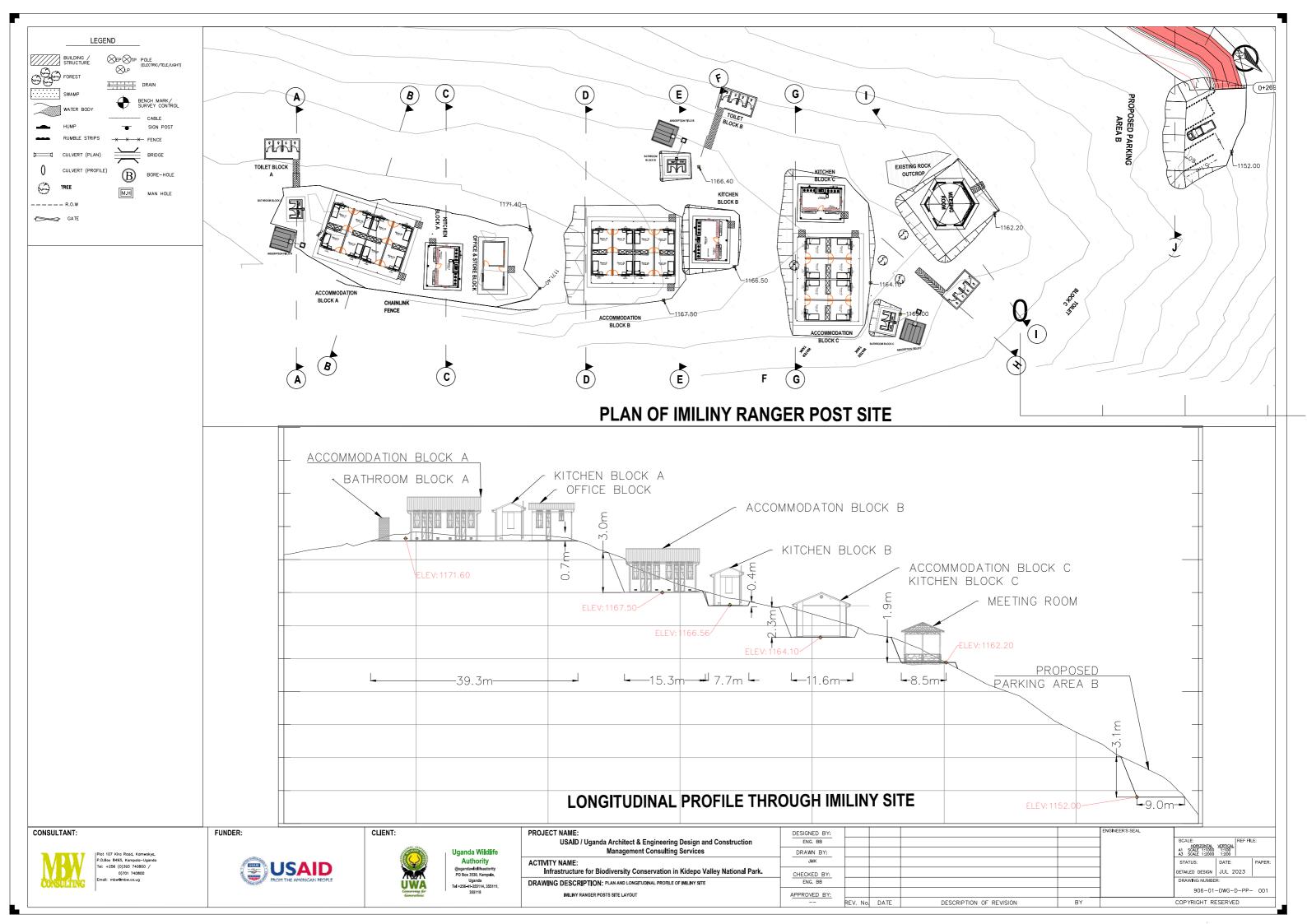
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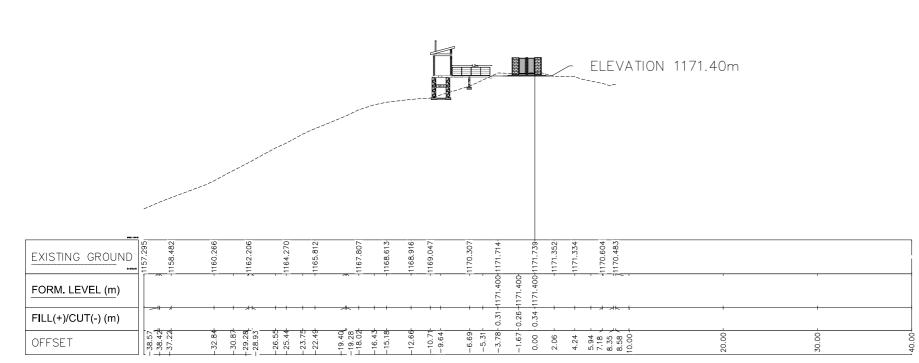
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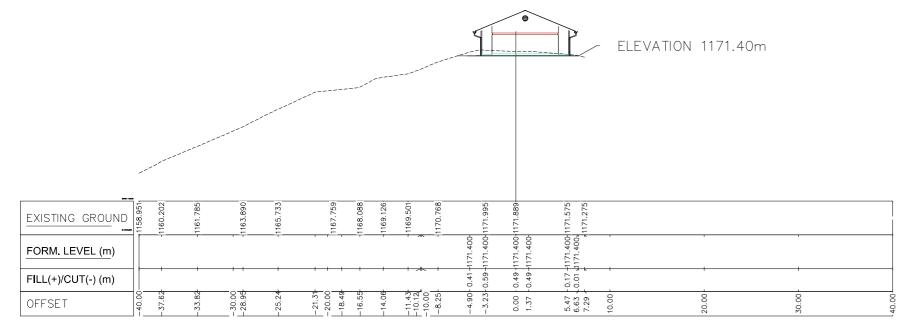
IMILIMY RANGER POSTS SITE PLAN AND PROFILE



IMILIMY RANGER POSTS SITE GRADING CROSS SECTIONS



Toilet Block A SECTION A-A



Accommodation Block A SECTION B-B

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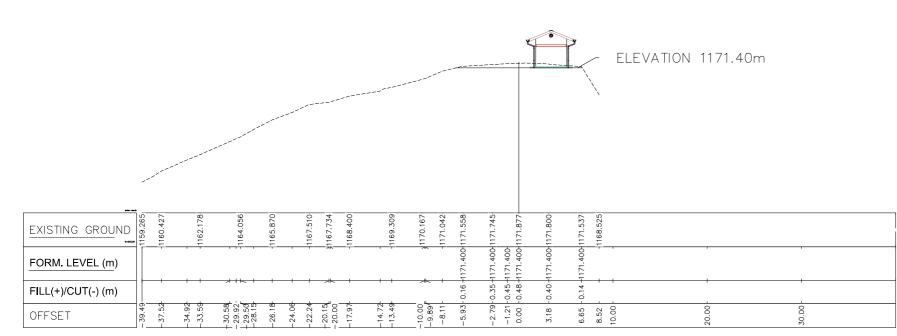


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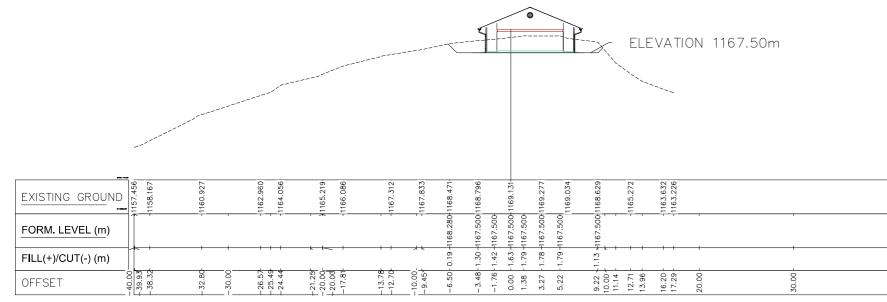
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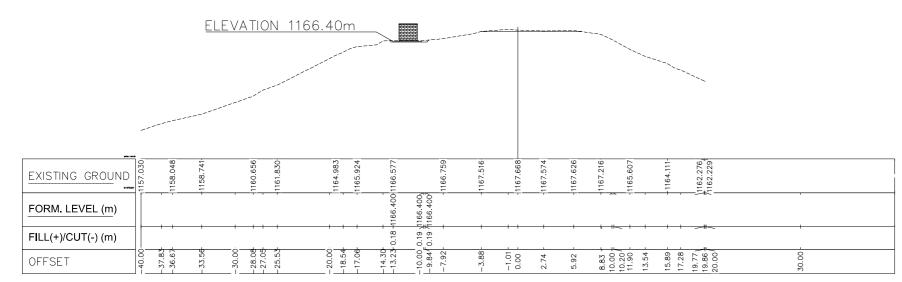
Office and Kitchen Block A SECTION C-C



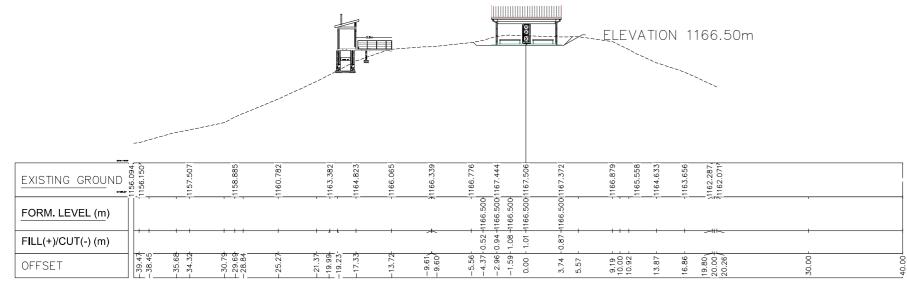
Accommodation Block B SECTION D-D



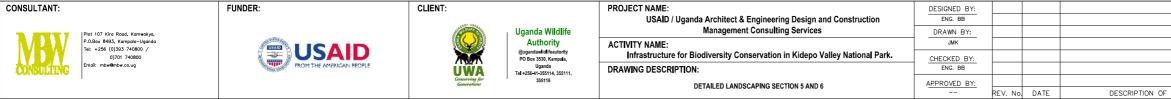
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			STATUS:	DATE:	PAPER:				
			DETAILED DESIGN	JUL 2023					
			DRAWING NUMBE	DRAWING NUMBER:					
		906-01	906-01-DWG-D-CS- 002						
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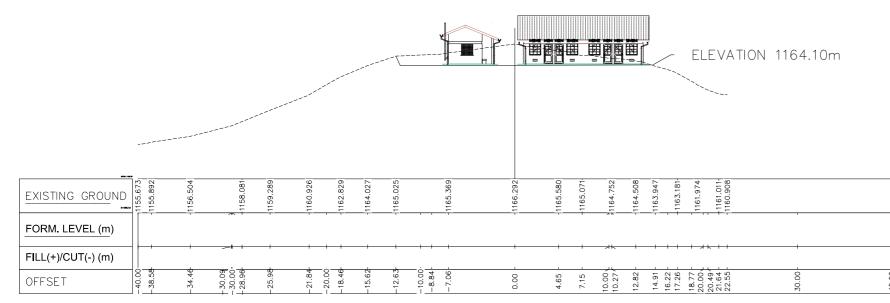
Bathroom B SECTION E-E



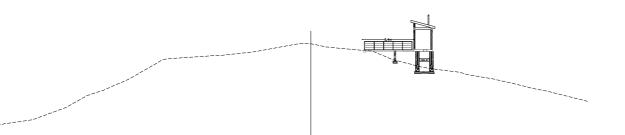
Kitchen B & Toilet Block B SECTION F-F



		ENGINEER'S SEAL								
		-	SCALE: HORIZONTAL A1 SCALE 1:1000 A3 SCALE 1:2000	VERTICAL 1:100 1:200	.E:					
			STATUS:	DATE:	PAPER:					
			DETAILED DESIGN	JUL 2023						
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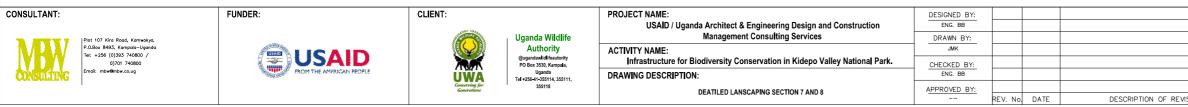


Accommodation Block C SECTION G-G

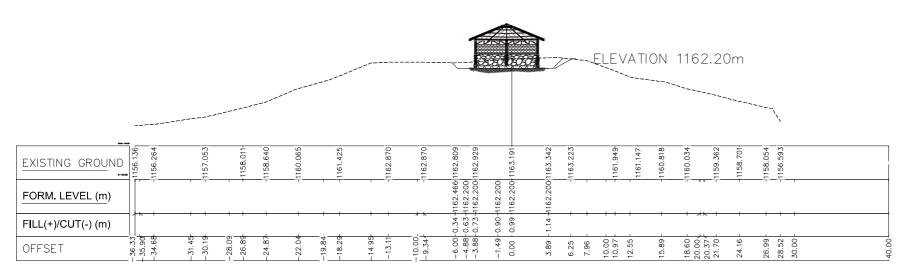


EXISTING GROUND	1155.300 1155.442	1155.744	1156.163	1156.587	1157.894	1159.728	1161.435	1163.076	1163.426	1163.764	1164.478	1164.656	1163.941	1162.980	1162.226	1161.630	1160.936	1159.909	1158.595			
FORM. LEVEL (m)	1155.300 1155.442	1155.543 1155.744	156.1	ч гэр. 407 4156.517- 7156.5877	4157.894	-1159.159 -1159.728	-1160.595 -1161.435-	1163.076	д163.402 [,] 7163.426 ⁷	1163.764	-1164.478 -1164.660	164.65 164.31	-1163.941-		-1162.226	-1161.630-	4160.936 1160.769 -1160.512	1159.909 1159.643	1158.595 158.525 7			
FILL(+)/CUT(-) (m)	-00.0	- 0.00 -	8 8	00.0	- 0.00 -	- 00.0	-00.0	- 00.0	0.00	- 0.00 -	- 0.00 -	8 8	- 00.0 -	8.8		- 0.00 -	-0.00	- 0.00 -	0.00			
OFFSET	-35.84 -35.02	-32.99 -31.40		+ 28.24 - 27.64 + 27.26	-24.34	-22.50 -21.08	-19.43 -18.09	-14.97	-10.00	-6.21	-2.28 -1.06	0.00	3.78	222 222	222 222	222	??? 16.47 17.60	19.98 21.35	25.41 25.59	35.96	45.71	

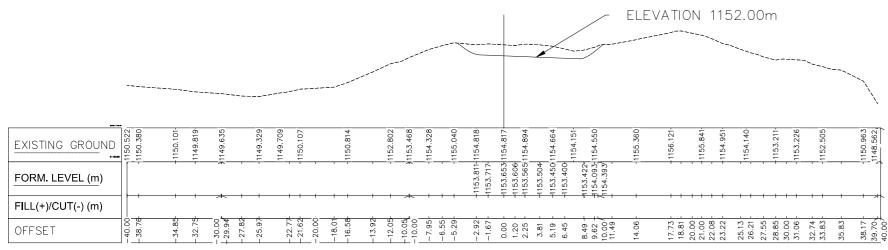
Toilet Block C SECTON I-I



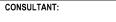
		ENGINEER'S SEAL			
		-	SCALE: HORIZONTAL A1 SCALE 1:1000 A3 SCALE 1:2000	VERTICAL 1:100 1:200	.E:
			STATUS:	DATE:	PAPER:
			DETAILED DESIGN	JUL 2023	
			DRAWING NUMBE	R:	
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Meeting Room SECTION H-H



Area B SECTION J-J



t 107 Kira Road, Kamwokya, 1.Box 8493, Kampala–Ugand : +256 (0)393 740800 / 0)701 740800

bw.co.ug

FUNDER:

USAID



USAID



UWA

CLIENT:



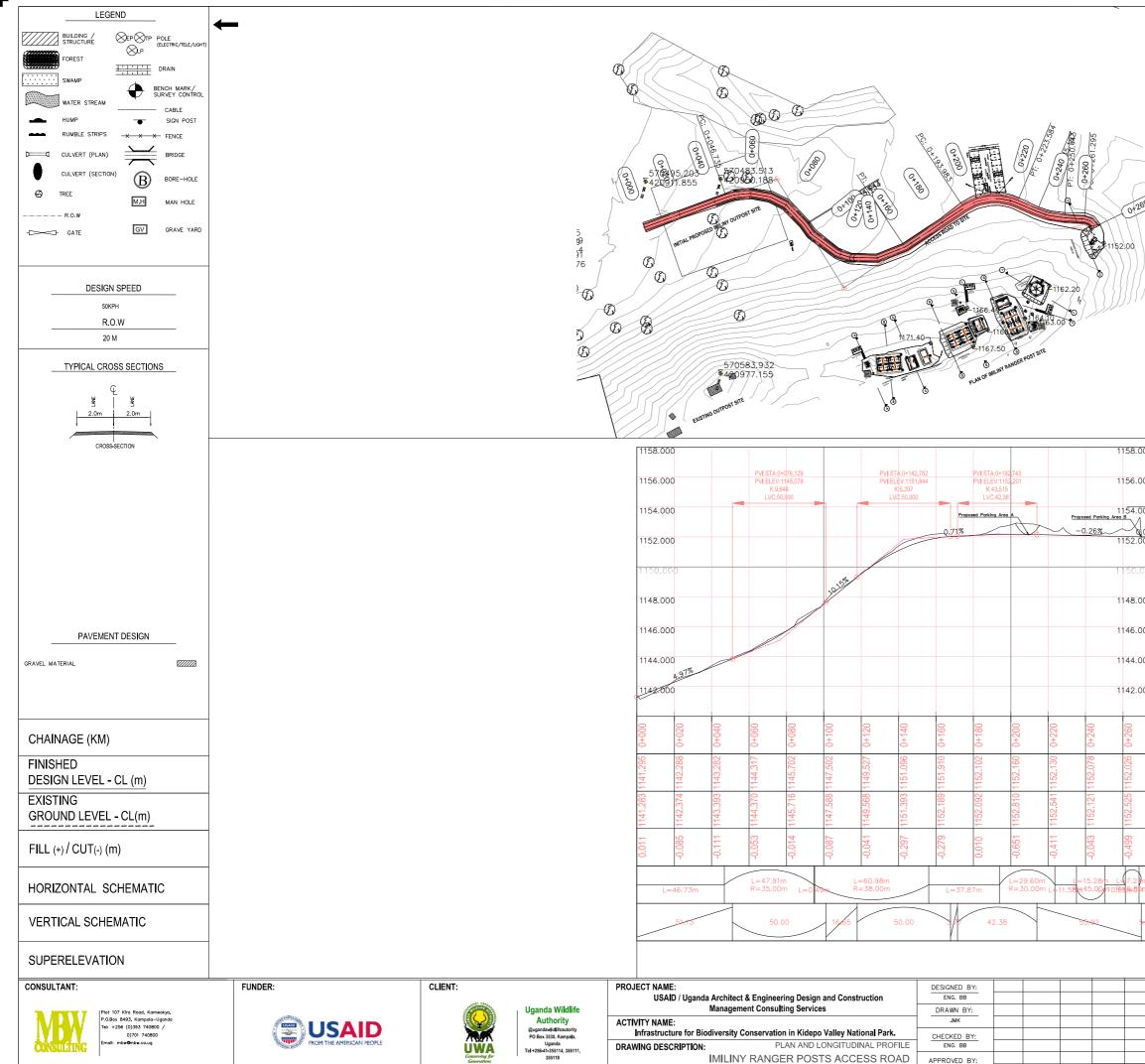
 PROJECT NAME: USAID / Uganda Architect & Engineering Design and Construction Management Consulting Services
 DESIGNED BY: ENG. BB
 DESIGNED BY:

 ACTIVITY NAME: Infrastructure for Biodiversity Conservation in Kidepo Valley National Park.
 DRAWN BY: JMK
 DRAWN BY: JMK
 DRAWN BY: JMK

 DRAWING DESCRIPTION: DETAILED LANSCAPING SECTION 9 AND 8
 CHECKED BY: ENG. BB
 CHECKED BY: TOR DETAILED LANSCAPING SECTION 9 AND 8

		ENGINEER'S SEAL			
		-	SCALE: HORIZONTAL A1 SCALE 1:1000 A3 SCALE 1:2000	VERTICAL 1:100 1:200	.E:
			STATUS:	DATE:	PAPER:
			DETAILED DESIGN	JUL 2023	
			DRAWING NUMBE	R:	
		-	906-01	-DWG-D-CS-	005
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IMILIMY RANGER POSTS SITE ACCESS ROAD PLAN AND PROFILE



IMILINY RANGER POSTS ACCESS ROAD

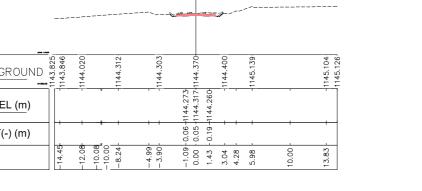
APPROVED BY:

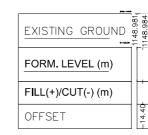
REV. No. DATE

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26%				
1146.00 1144.00 1142.00				
152.076 0+240 152.026 0+260 152.000 0+275				
-0.043 1152.121 1152.078				
5.28m L47.29m 5.09m0/85fin0 19m				
			ENGINEER'S SEAL	DRAWING NUMBER SCALE: NOBSCANEA AS SCALE 1:2000 STATUS: DATE: PAPER:
REVDESCRIPTIATE	F RED ESION IPTION OF RE	VISIONBY	BY	DETAILED DESIGN JUL 2023 DRAWING NUMBER: 906-01-DWG-D-PP-2 COPYRIGHT RESERVED

IMILIMY RANGER POSTS SITE ACCESS ROAD CROSS SECTIONS

$\frac{\left[\text{EXISTING GROUND} \\ \text{FORM. LEVEL (m)} \\ \text{FILL(+)/CUT(-) (m)} \\ \text{OFFSET} \\ \text{OHOD.00} \\ \text{OSSULTANT:} \\ \text{FUNDER:} \\ FUNDER$	Tel: +256 (0)393 740800 / 0)701 740800 Email: mbw@mbw.co.ug			ISAIC IN THE AMERICAN PEC	3140		@ugand PO Box Tel +256-4	awlidlifeautority 3530, Kampala, Uganda 1-355114, 355111, 355118		cture for		ty Conserva	ation in Kide	epo Valle	y Nation	al Park.
EXISTING GROUND Filter Filt	Piot 107 Kira Road, Karnwokya,		-statis-			CLIENT:			US	A I D / Uga					Construc	tion
EXISTING GROUND	0+000.00							0+060.00								
EXISTING GROUND FILL(+)/CUT(-) (m) FILL(+)/CUT(-) (m)	OFFSET	-11.04 -10.00 -9.69 -8.04	-5.68 -4.24 -2.81 -1.44 0.00	3.99	7.43 9.32 10.00			OFFSET	2 7 7	-12.08	-10.08 -10.00 -8.24	-4.99 -3.90	-1.09 0.00 1.43	3.04 4.28	5.98	10.00
EXISTING GROUND Image: second sec	FILL(+)/CUT(-) (m)		-0.04					FILL(+)/CUT(-+					
EXISTING COLUCIES COLUCTION COLUCTICA COLUCTIC	FORM. LEVEL (m)		141.141.141					FORM. LEVE	<u>EL (m</u>)		• •		144.273 1144.317 144.260			·
	Ñ	-1141.156- -1141.232-	7 7 7	1141.	-1141.973	1141.920		EXISTING G	ROUND 8	3.84 4.02	-1144.312	1144.303	1144.37	1144.	-1145.139	
				<u>سم</u> ر م	^				-							





0+120.00

REV. No. DATE

DESIGNED BY: ENG. BB

DRAWN BY: JMK

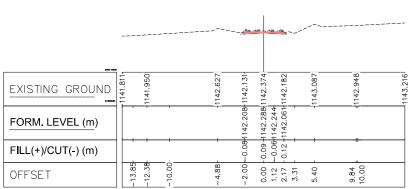
CHECKED BY: ENG. BB

APPROVED BY:

0+100.00

0+080.00

DETAILED CROSS SECTIONS FOR APPROACH ROAD



					** * **		
EXISTING GROUND	1145.981 1145.883	1146.015	1146.125	1145.948	1145.887	1145.941 [.] 1146.174	1146.062
FORM. LEVEL (m)				1145.784 1145.656 1145.702			
FILL(+)/CUT(-) (m)	1			-0.22 -0.16 -0.01			
OFFSET	-13.59	-10.75 -10.00	-6.65-	-2.89- -1.15- 0.00-	3.04	6.22 7.56 8.81 10.00	

0+040.00

0+020.00

					220_	200	y			
EXISTING GROUND	1142.709		1143.321	1143.147	1143.145	1143.393 1143.344	1143.508	1143.968	1144.060	1144.280 1144.285
FORM. LEVEL (m)					1143.082	4143.282 4143.237				
FILL(+)/CUT(-) (m)					-0.06-	- 0.11				
OFFSET		-10.00	-7.46	-5.23-	-2.14	0.00	3.73	5.90	10.00	14.92

					****	<u></u>			
EXISTING GROUND	1147.971	1147.881	-1147.811	1147.814	1147.588	1147.468	1147.436	1147.461	1147.466 1147.472
FORM. LEVEL (m)				1147.724	1147.502	1147.430			
FILL(+)/CUT(-) (m)				0.09	- 60.0	0.06			
OFFSET	-14.93	-12.08 -10.55 -10.00	-6.95	-4.61 -3.05 -1.81	0.00	3.71 -	8.06	10.00	13.07 14.21

page roles										
1148.981	-1149.212 ⁻ -1149.181-	1149.179	0.04 1149.527 1149.569	0.31 +1149.379 1149.688	1150.255	1150.688	1151.293	1152.207 1152.393		
<u>(m</u>)			-1149.527	4149.379						
(m)			-0.04-	- 0.31-						
-14.40	-11.96 -10.00 -9.86	-6.81	00.00	2.08 3.44	5.91	8.68	11.21	14.53		
				ENGINEER	'S SEAL		_			
				ENGINEER	'S SEAL			SCALE: HORIZONTAL A1 SCALE 1:100 A3 SCALE 1:200		ef file:
					'S SEAL				L <u>VERTICAL</u> 10 1:100 1:200 DATE:	PAPER:
				ENGINEER	'S SEAL		D	HORIZONTAL A1 SCALE 1:100 A3 SCALE 1:200 STATUS: ETAILED DESIGN DRAWING NUME	U VERTICAL 1:100 1:200 DATE: JUL 202	PAPER:

- no no y









@ugandawlidlifeautority PO Box 3530, Kampala, Uganda Fel +256-41-355114, 355111

PROJECT NAME: USAID / Uganda Architect & Engineering Design and Construction	DESIGNED BY:		
Management Consulting Services	DRAWN BY:		
ACTIVITY NAME: Infrastructure for Biodiversity Conservation in Kidepo Valley National Park.	JMK		
DRAWING DESCRIPTION:	CHECKED BY: ENG. BB		
DETAILED CROSS SECTIONS FOR APPROACH ROAD	APPROVED BY:		
		REV. No.	DATE

0+140.00

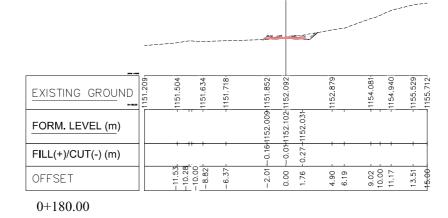
CONSULTANT:

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OFFSET

0+160.00

					10 AT - 50 - 500	Ţ				
EXISTING GROUND	1149.742	1149.909	1150.186	1150.752	1151.395-	-1152.161-	1153.897	1155.359	1156.615	1157.998
FORM. LEVEL (m)					1151.052- 1151.096- 1151.046-	-1151.835				
FILL(+)/CUT(-) (m)					-0.12 0.30	-0.33-				
OFFSET		-11.86	-10.00 -8.82 -7.50	-4.21 -2.93	-1.11 0.00 1.25	3.64	7.28	8.97 10.00	12.26	



EXISTING GROUND	1152.196
FORM. LEVEL (m)	
FILL(+)/CUT(-) (m)	
OFFSET	
0.1220.00	

0+220.00

				&	- 45 - 50 - 50	Ţ				
EXISTING GROUND	1149.742	1149.909	1150.186	1150.752	-1151.395	-1152.161-	1153.897	1155.359	1156.615	1157.998
FORM. LEVEL (m)					1151.052 1151.096 1151.046	-1151.835				
					000	5	,		,	

0+200.00

				¥	<u>11 - 10</u>				
EXISTING GROUND	1152.264	1152.405	1152.632	-1152.810-	-	1153.104	1153.224	1153.904	1154.435
FORM. LEVEL (m)				-1152.081- -1152.160-	1152.690				
FILL(+)/CUT(-) (m)				-0.65 -	- 0.26 -				
OFFSET		-11.56 -10.00 -9.68	-4.87	-1.96	3.40	5.65	8.69 - 10.00	12.91	

EXISTING GROUND	1150.408	1150.409
FORM. LEVEL (m)		
FILL(+)/CUT(-) (m)		
OFFSET	14.00	06.41
0+240.00	-	

EXISTING GROUND	1150.382	 1150.590	1150.760	1150.959	1151.408	1152.189	1152.988	1153.731	1154.741	1155.835	1157.271
FORM. LEVEL (m)						-1151.844- -1151.910-	-1152.110				
FILL(+)/CUT(-) (m)		+ + + + + + + + + + + + + + + + + + +				-0.14-	- 0.88-				

-3.33--1.64-

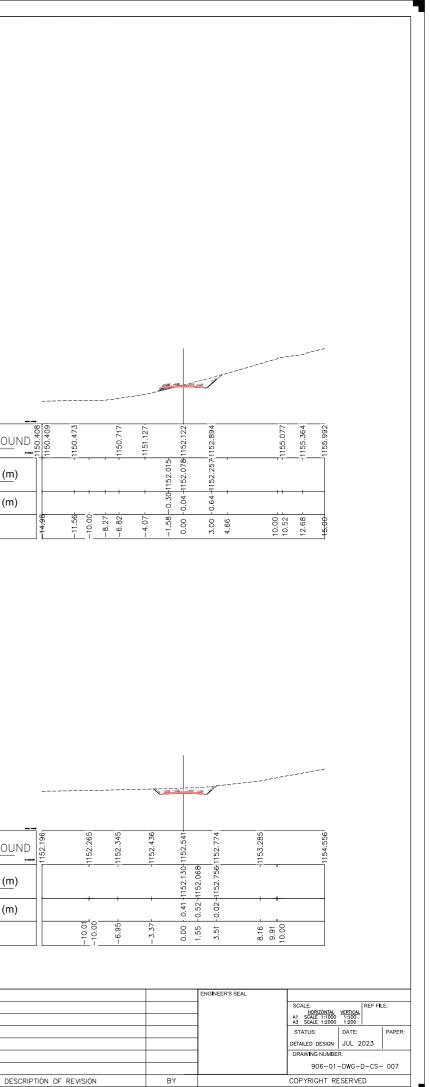
3.02 -5.48 -6.88 -8.01 -10.00 -10.60 -

		7	<u>n 10 10 10 1</u>	J.	
EXISTING GROUND	1152.264	1152.632	1152.810	1152.949	1153.104 1153.224
FORM. LEVEL (m)			-1152.081- -1152.160-	1152.690	
FILL(+)/CUT(-) (m)			0.65	- 0.26 -	
OFFSET	-11.56 -10.00	-4.87	-1.96	3.40	5.65 . 8.69 .

						na na tak	Ĩ	y			
EXISTING GROUND	1150.382	1150.590	1150.760	1150.959	1151.408	1152.189	1152.988	1153.731	-1154.741	1155.835	
FORM. LEVEL (m)						51.844 ⁻ 51.910-	52.110			- 1 12	

5.97

12.19-10.46 10.00 -8.09-



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355118

	PROJECT NAME:	DESIGNED BY:			
	USAID / Uganda Architect & Engineering Design and Construction	ENG. BB			
	Management Consulting Services	DRAWN BY:			
Γ	ACTIVITY NAME:	ЈМК			
	Infrastructure for Biodiversity Conservation in Kidepo Valley National Park.	CHECKED BY:			
Γ	DRAWING DESCRIPTION:	ENG. BB			
	DETAILED CROSS SECTIONS FOR APPROACH ROAD	APPROVED BY:			
			REV. No.	DATE	DESCRIPTION OF

0+260.00

CONSULTANT:

						, 1	4		1			
EXISTING GROUND	1147.951	1147.932	1148.415		1149.859	-1151.411-	1152.525	1154 240	1155 026	1154.950	1155.298	1155.898 1155.900
FORM. LEVEL (m)						0.52-1151.927-	-1152.026-1152.525	1 19 4153 0521154 240	1154.530			
FILL(+)/CUT(-) (m)						-0.52	0.50	- 19	0.21			
OFFSET		-12.28	-10.98	- E 5 4-	-5.20-	-2.02-	0.00	7 9 5	5.67	9.09	11.04 - 12.68 -	14.98

FUNDER:

0+268.98

					20 40.00	a de la compañía de la		
EXISTING GROUND	1146.524 1146.625	1147.883	1150.641	1151.993	1153.301	1154.653	1155.273	1155.949 1155.951
FORM. LEVEL (m)				-1151.913-	1.30 +1152.002 1153.301	154.335		
FILL(+)/CUT(-) (m)				0.08-	1.30-	0.32-		
OFFSET	-14.77	-11.69 -10.59 -10.00 -9.02	-4.50-	-2.69-	0.00	5.47	8.75 - 9.36 -	10.24

		ENGINEER'S SEAL						
		-	SCALE: HORIZONTAL A1 SCALE 1:1000 A3 SCALE 1:2000	VERTICAL 1:100 1:200	.E:			
			STATUS:	DATE:	PAPER:			
			DETAILED DESIGN	JUL 2023				
		7	DRAWING NUMBE	DRAWING NUMBER:				
			906-01	-DWG-D-CS-	- 008			
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