

THE REPUBLIC OF SOUTH SUDAN

WESTERN EQUATORIA STATE

MARIDI - MUDUBAI ACCESS ROAD DESIGN

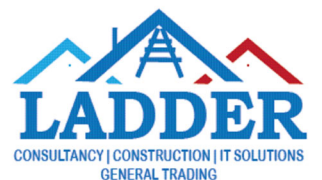
EMPLOYER:



ACTED

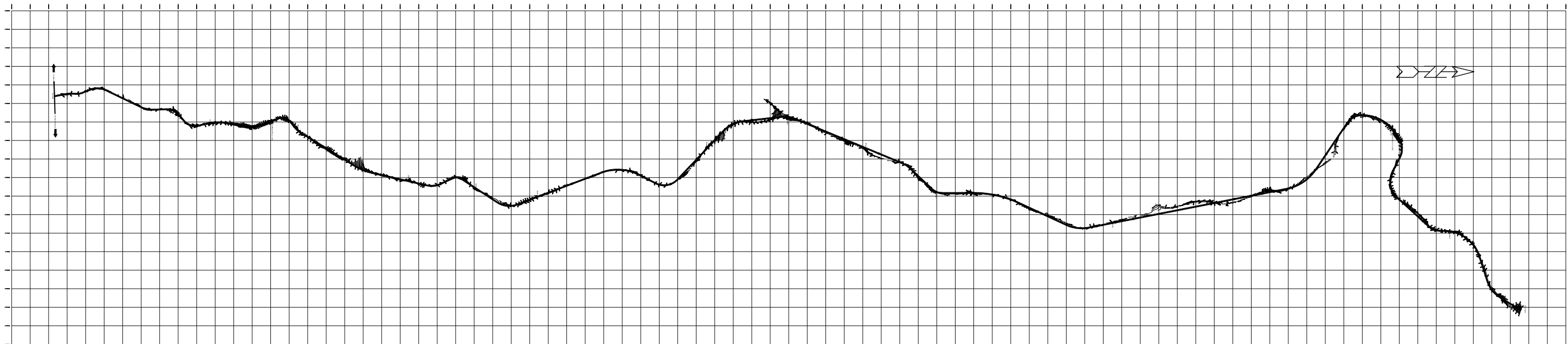
ACTED South Sudan
Western Equatoria State

CONSULTANT:



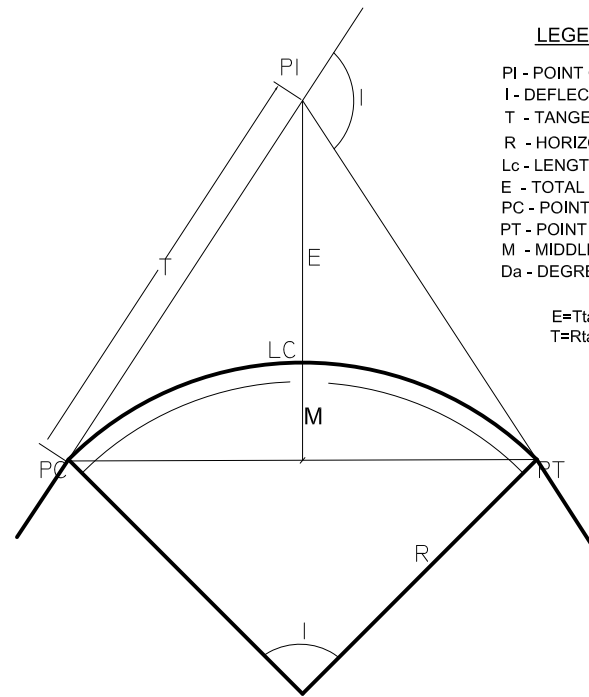
FEBRUARY, 2023

BM NUMBERS	COORDINATES AND ELEVATIONS		
	EASTING	NORTHING	ELEVATION
BM 1	776538	548154	124.13
BM 2	776704	547495	132.41
BM 3	776800	547239	134.58
BM 4	776762	546907	128.22
BM 5	776714	546547	133.74
BM 6	776437	545941	112.27
BM 7	776411	545465	127.22
BM 8	776251	544696	128.66
BM 10	776375	548592	111.53
BM 13	776942	550348	112.45
BM 15	776431	551860	105.49
BM 16	776991	552170	125.35



LEGEND / ABBREVIATION :

	-RIVER		-REINFORCED CONCRETE PIPE CULVERT
	-PROJECTED ROAD	E	-EASTING, EXTERNAL DISTANCE
	-CONTROL POINTS	RCPC	-REINFORCED CONCRETE PIPE CULVERT
	-SLAB CULVERT/FORD	RCSC	-REINFORCED CONCRETE SLAB CULVERT
	-CENTER LINE	LM	-LINEAR METER
	-HOUSE/HUT	m	-METER/METERS
AZIM	-AZIMUTH	PI	-POINT OF INTERSECTION
BM	-BENCH MARK	PC	-POINT OF CURVATURE
mm	-MILLIMETER	PT	-POINT OF TANGENCY
Da	-DEGREE OF CURVE	PVI	-POINT OF VERTICAL INTERSECTION
∅	-DIAMETER	PVC	-POINT OF VERTICAL CURVATURE
e	-SUPER ELEVATION	PVT	-POINT OF VERTICAL TANGENCY
EL.ELE	-ELEVATION	R	-RADIUS OF CURVATURE
g	-GRADE	WW	-WING WALL
I	-DEFLECTION ANGLE	CB	-CATCHMENT BASIN
KPH	-KILOMETER PER HOUR	M	-MIDDLE ORDINATE
KM	-KILOMETER		-ELECTRIC POLE
LC	-LENGTH OF CURVE		-WATER PIPE MARKS

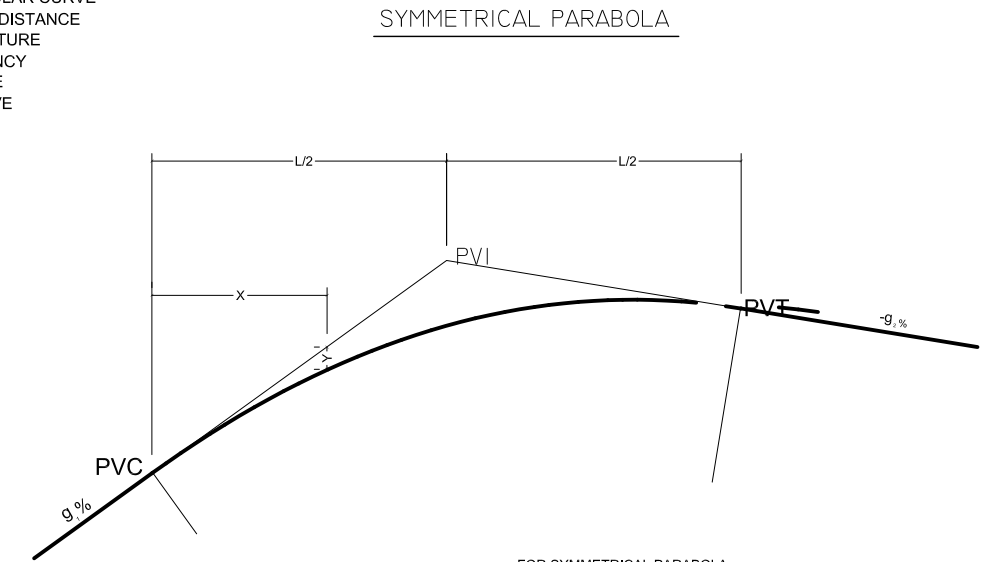


LEGEND
 PI - POINT OF INTERSECTION
 I - DEFLECTION ANGLE (CENTRAL ANGLE)
 T - TANGENT LENGTH
 R - HORIZONTAL RADIUS
 Lc - LENGTH OF CIRCULAR CURVE
 E - TOTAL EXTERNAL DISTANCE
 PC - POINT OF CURVATURE
 PT - POINT OF TANGENCY
 M - MIDDLE ORDINATE
 Da - DEGREE OF CURVE

$E = T \tan(I/4)$
 $T = R \tan(I/2)$

HORIZONTAL CIRCULAR CURVE

NOTE: NO HORIZONTAL CURVE IS REQUIRED WHEN THE DEFLECTION ANGLE IS LESS THAN ONE (1) DEGREE



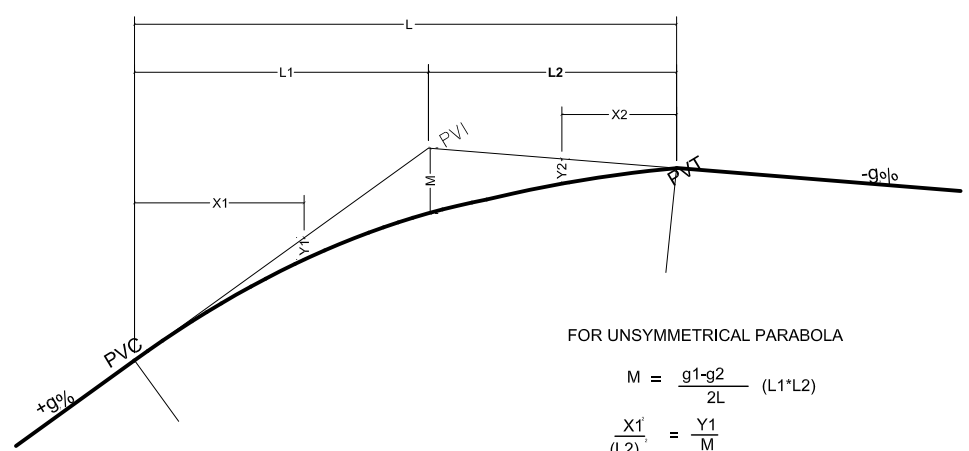
SYMMETRICAL PARABOLA

FOR SYMMETRICAL PARABOLA

$M = \frac{g_1 - g_2}{8} L$

$\frac{X'}{(L/2)} = \frac{Y}{M}$

UNSYMMETRICAL PARABOLA



FOR UNSYMMETRICAL PARABOLA

$M = \frac{g_1 - g_2}{2L} (L_1 \cdot L_2)$

$\frac{X_1'}{(L_2)} = \frac{Y_1}{M}$

$\frac{X_2'}{(L_1)} = \frac{Y_2}{M}$

NOTE: NO VERTICAL CURVE IS REQUIRED WHEN THE ALGEBRAIC DIFFERENCE IN GRADES IS LESS THAN 0.50%

LEGEND

- PVI - POINT OF VERTICAL INTERSECTION
- PVC - POINT OF VERTICAL CURVATURE
- PVT - POINT OF VERTICAL TANGENCY
- L - LENGTH OF VERTICAL CURVATURE
- g - GRADE IN PERCENT
- M - MIDDLE ORDINATE
- X - DISTANCE FROM PVC/PVT TO ANY POINT OF CURVE
- Y - VERTICAL OFFSET FROM CURVE TO TANGENT

LENGTH OF VERTICAL CURVATURE:
 FOR ALGEBRAIC GRADE DIFFERENCES OF 2.00% AND GREATER, AND THE DESIGN SPEED EQUAL TO OR GREATER THAN 60KPH THE MINIMUM LENGTH OF VERTICAL CURVATURE IN METER SHOULD BE EQUAL TO 2V, WHERE V=DESIGN SPEED.
 FOR ALGEBRAIC DIFFERENCE OF LESS THAN 2.00% OR THE DESIGN SPEED LESS THAN 60KPH THE VERTICAL CURVE LENGTH SHOULD NOT BE A MINIMUM OF 80m

GENERAL NOTES

DIMINSIONING

- a) UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS WHICH INCLUDE DISTANCE BETWEEN CONTROL POINTS AND DIMENSION OF DRAINAGE STRUCTURE ARE MEASURED AND EXPRESSED IN METERS

STATIONING

- a) THE ROAD STATIONS AND ELEMENTS ARE REFERRED TO THE CENTER LINE OF THE ROAD
- b) STATION OF THE PROJECT ROADS ARE IN KMS WITH OR WITHOUT DECIMALS

ELEVATION AND GRADES

- a) FINISHED GRADE ELEVATIONS SHOWN IN THE PLAN AND PROFILE SHEETS, REFER TO THE FINISHED ROAD ELEVATION AS SHOWN ON THE TYPICAL ROAD WAY SECTION
- b) ORIGINAL GROUND ELEVATION SHOWN IN THE PLAN AND PROFILE SHEETS, REFERS TO THE ELEVATION OF EXISTING GROUND ALONG THE CENTER LINE OF THE PROFILE OF THE ROAD

HORIZONTAL CONTROL

- a) HORIZONTAL CONTROLS ARE CONCRETE MONUMENTS WITH 10mm REINFORCING BARS OR BOULDER USUALLY MARKED CP (CONTROL POINTS)
- c) ALL COORDINATES WERE MEASURED FROM THE ASSUMED ELEVATION ASSUMED TO BM-1

VERTICAL CONTROL

- a) VERTICAL CONTROLS WERE ESTABLISHED APPROXIMATELY EVERY 500m ALONG THE ROAD . THESE WERE LOCATED MOSTLY ON CONCERTE MONUMENTS WITH REINFORCING BAR AT MIDDLE OR BOULDER USUALLY MARKED CP (CONTROL POINTS)
- b) ELEVATIONS ARE BASED ON ASSUMED READING

CROSS DRAINAGE AND SLOPE PROTECTION WORKS

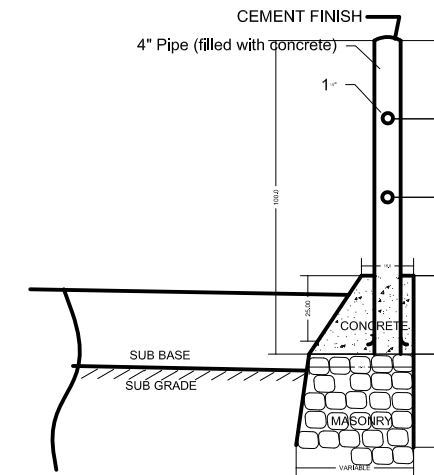
- a) EXACT LOCATION POSITION AND ELEVATION OF THE DRAINAGE STRUCTURES MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER TO SUIT ACTUAL FIELD CONDITION.
- b) PROVISION OF HEADWALLS, WING WALLS AND OTHER STRUCTURAL COMPONENTS FOR REINFORCED CONCRETE CULVERTS (RCPC & RCBC) ARE DISTINCTLY SPECIFIED ON THE PLAN AND DRAWING SCHEDULE.
- c) LIMITS OF SLOPE PROTECTION WORKS MAY BE ADJUSTED BY THE ENGINEER TO SUIT ACTUAL FIELD CONDITION. THE ENGINEER MAY ALSO PROPOSE ADDITIONAL SLOPE PROTECTION WORKS IF HE/SHE THINKS NECESSARY.

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	DWG. NO.
<p>ACTED South Sudan Western Ectoria State The Republic of South Sudan</p>	<p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>		MARIDI - MUDUBAI ACCESS ROAD			02
			SHEET CONTENT:			
			GENERAL NOTES			
				DWG. Scale: AS SHOWN		
				DATE: FEBRUARY 2023		SHEET 1_OF_2_SHEETS

SLOPE RATIO TABLE (HOR:VER)

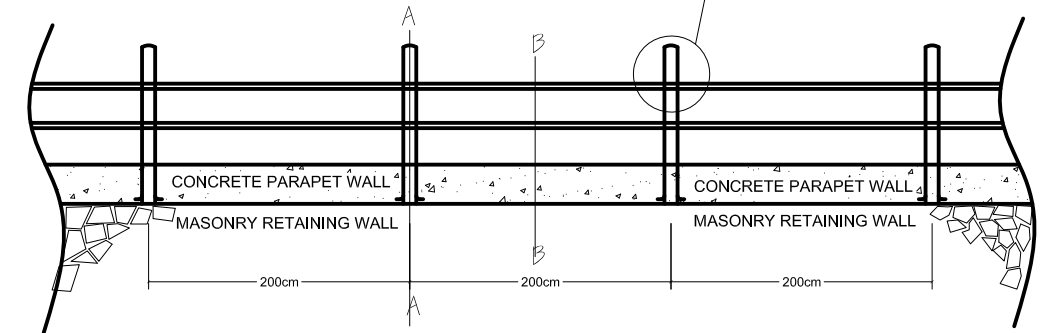
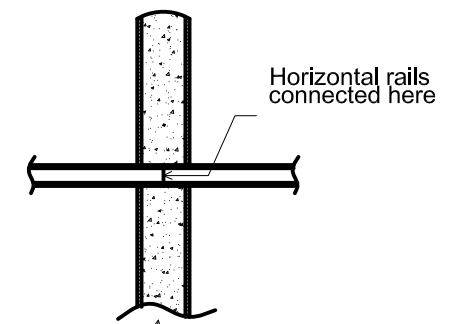
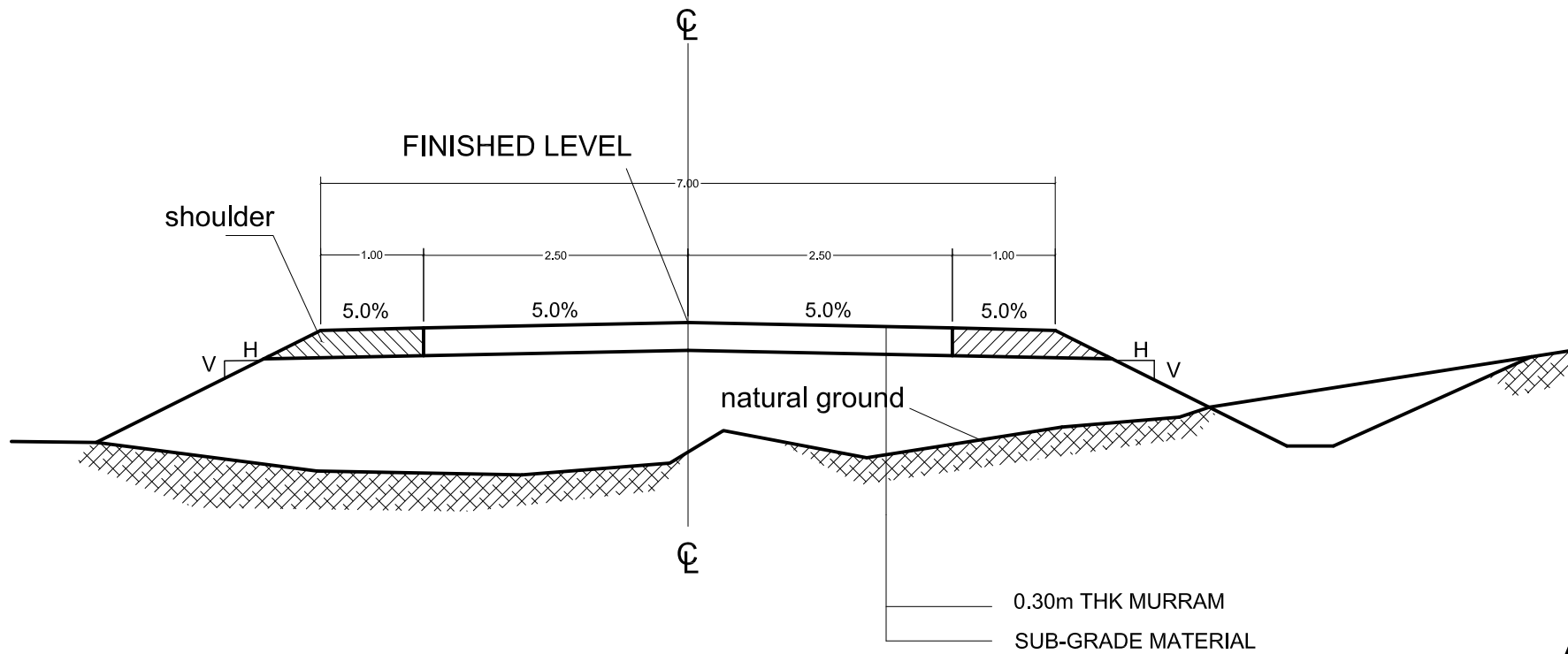
	HEIGHT OF SLOPE	CUT	FILL
EARTH OR SOIL	0.0M - 1.0M	3:1	3:1
	1.0M - 2.0M	2:1	2:1
	OVER 2.0M	3:2	3:2
ROCK	0.0M - 2.0M	1:2	
	OVER 2.0M	1:4	

DETAIL OF GUARD RAIL



NOTE:
 A - 4" Pipe, 4mm thickness, vertical Posts filled with cement concrete and top cover finished with cement screed (length and shape as shown in the drawing), - and painted with Black and White paint strips.
 B - 1 1/2" Pipe, 3mm thickness, Two parallel horizontal rails (length and shape as shown in the drawing)

SECTION A - A
TYPICAL GUARD RAIL SECTION
 All dimensions are in cm.

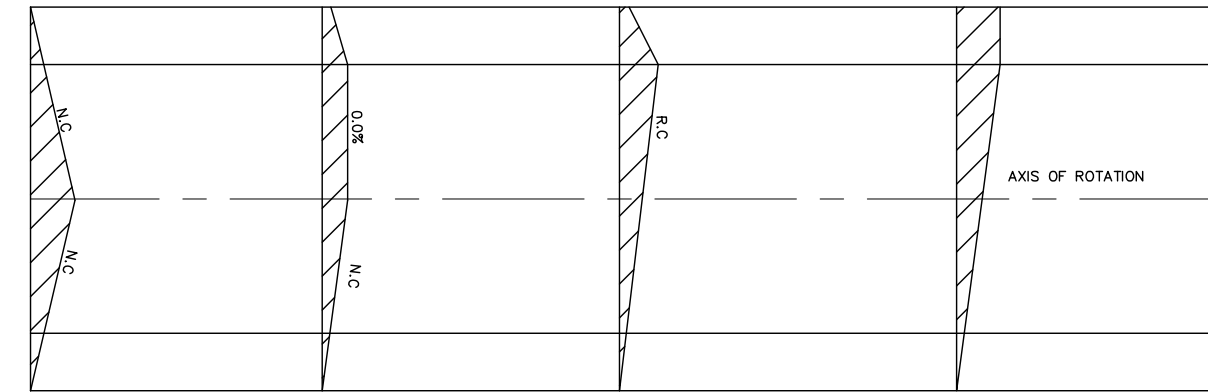


SUPERELEVATION & RUN-OFF LENGTH

No	RADIUS	V=30KPH	V=40KPH	V=50KPH	V=60KPH	V=70KPH	V=80KPH	V=90KPH	V=100KPH	V=110KPH	V=120KPH
	R	e	L	e	L	e	L	e	L	e	L
1	7000	NC	0	NC	0	NC	0	NC	0	NC	0
2	5000	NC	0	NC	0	NC	0	NC	0	0.0	0
3	3000	NC	0	NC	0	NC	0	NC	0	0.0	0
4	2500	NC	0	NC	0	NC	0	NC	0	RC	56
5	2000	NC	0	NC	0	NC	0	RC	44	RC	50
6	1500	NC	0	NC	0	NC	0	RC	39	RC	44
7	1400	NC	0	NC	0	NC	0	RC	39	RC	44
8	1300	NC	0	NC	0	RC	33	RC	39	RC	44
9	1200	NC	0	NC	0	RC	33	RC	39	RC	44
10	1000	NC	0	NC	0	RC	28	RC	33	RC	39
11	900	NC	0	NC	0	RC	28	RC	33	RC	39
12	800	NC	0	RC	28	RC	33	RC	39	4.1	4.4
13	700	NC	0	RC	22	RC	28	RC	33	3.8	3.9
14	600	NC	0	RC	22	RC	28	RC	33	4.3	3.9
15	500	RC	0	RC	22	RC	28	RC	33	4.9	3.9
16	400	RC	17	RC	22	3.6	28	RC	33	5.7	3.9
17	300	RC	17	RC	22	4.5	28	RC	33	6.7	4.4
18	250	RC	17	4.0	22	5.1	28	3.9	33	7.3	4.8
19	200	RC	17	4.6	24	5.8	31	4.7	33	7.9	5.2
20	175	RC	17	5.0	26	6.2	33	5.6	34	8.0	5.2
21	150	3.8	17	5.4	28	6.7	36	6.2	37	R min=175	
22	140	4.0	18	5.6	29	6.9	37	7.0	42		
23	130	4.2	19	5.8	30	7.1	38	7.4	44		
24	120	4.4	20	6.0	31	7.3	39	7.8	47		
25	110	4.7	23	6.3	32	7.6	41	7.9	47		
26	100	4.9	23	6.5	33	7.8	42	8.0	48		
27	90	5.2	25	6.9	36	7.9	43	R min=125			
28	80	5.5	26	7.2	37	8.0	43				
29	70	5.90	28	7.5	39	R min=80					
30	60	6.4	31	7.8	40						
31	50	6.9	33	8.0	41						
32	40	7.5	36	R min=50							
33	30	8.0	38	R min=30							

$e_{max} = 8\%$
 R = Radius of curvature
 v = assumed design speed
 e = rate of super elevation
 L = minimum length of runoff (does not include tangent runoff)
 NC = normal crown
 RC = remove adverse crown super elevation at normal crown slope.

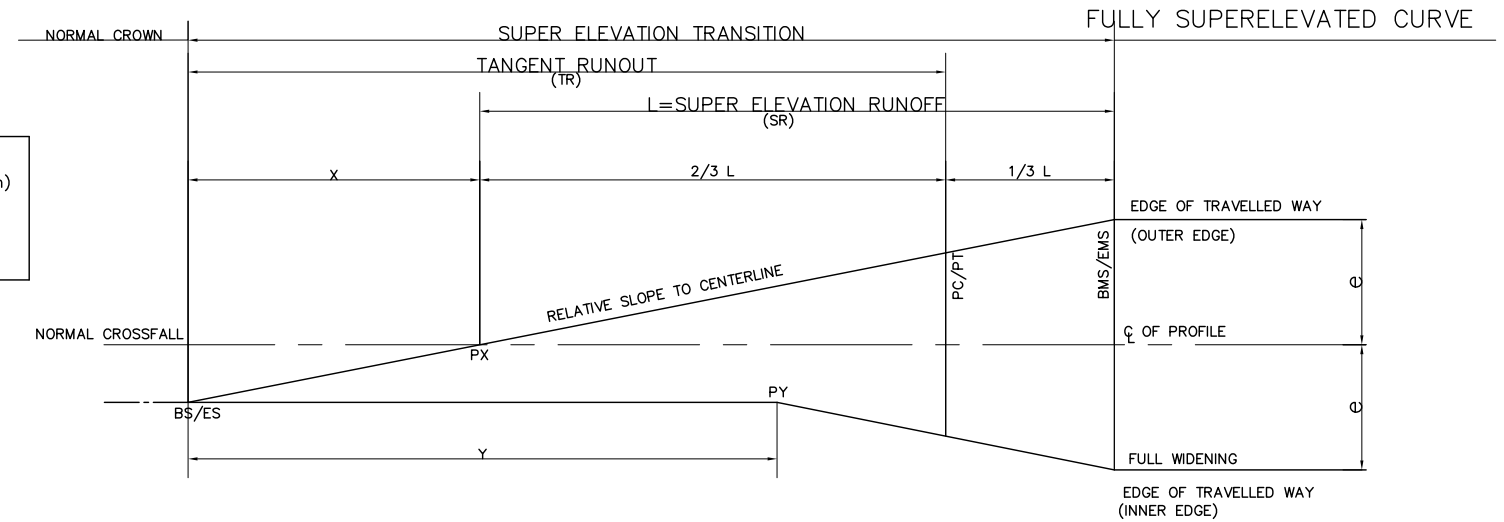
REF. AASHTO-GEOMETRIC DESIGN OF HIGHWAYS AND STREETS



SUPERELEVATION FORMULA

$$e+f = \frac{v^2}{127R}$$

e = SUPERELEVATION RATES (m/m)
 f = COEFFICIENT OF FRICTION
 v = DESIGN SPEED
 R = RADIUS OF CURVATURE



RELATIONSHIP OF DESIGN SPEED TO MAXIMUM RELATIVE PROFILE GRADIENT

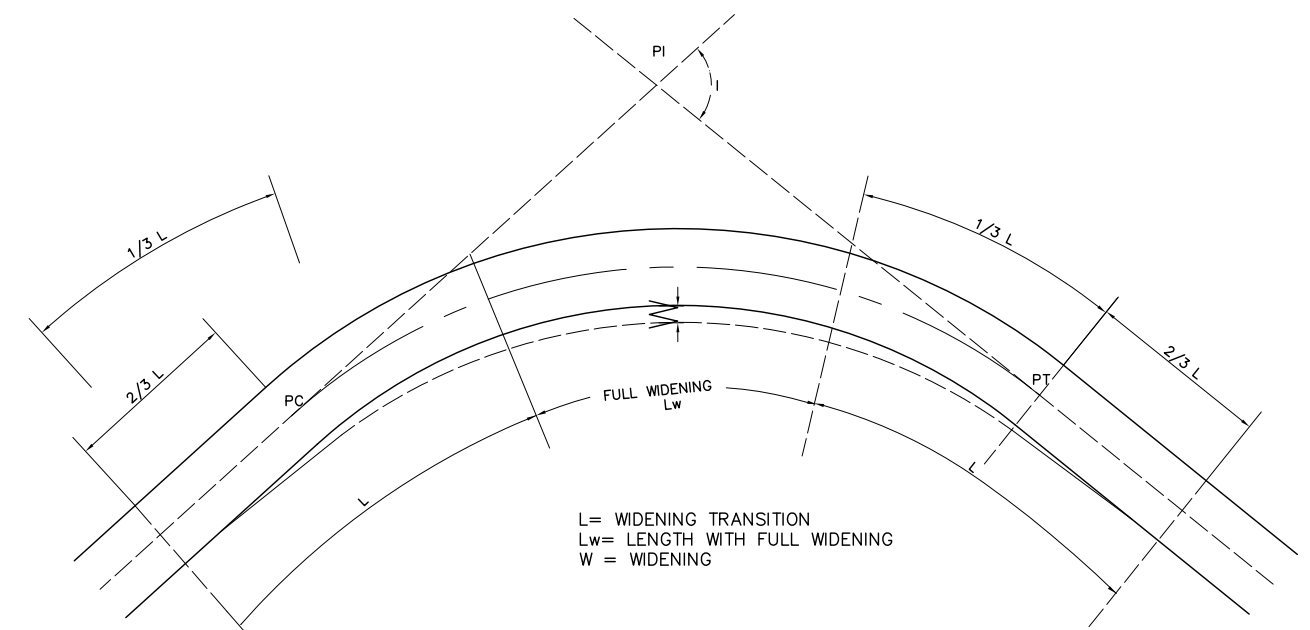
DESIGN SPEED (KPH)	MAXIMUM RELATIVE GRADIENTS (AND EQUIVALENT MAXIMUM RELATIVE SLOPES) FOR PROFILES BETWEEN THE EDGE OF TRAVELLED WAY AND THE CENTERLINE (X)
30	0.75 (1:133)
40	0.70 (1:143)
50	0.65 (1:150)
60	0.60 (1:1.67)
70	0.55 (1:182)
80	0.50 (1:200)
90	0.48 (1:210)
100	0.45 (1:222)
110	0.42 (1:238)
120	0.48 (1:250)

REF. AASHTO-GEOMETRIC DESIGN OF HIGHWAYS & STREETS (1994, Page 178)

MAXIMUM ALLOWABLE FRICTION

DESIGN SPEED (KPH)	FRICTION (f)
30	0.17
40	0.17
50	0.16
60	0.15
70	0.14
80	0.14
90	0.13
100	0.12
110	0.11
120	0.09

REF. CALTRANS HIGHWAY DESIGN MANUAL FIFTH EDITION

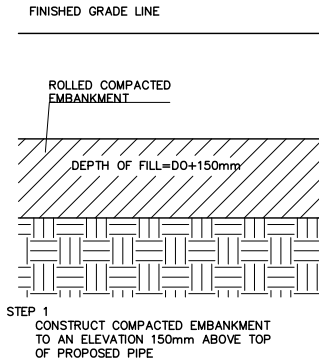


WIDENING WHEN TRANSITION IS NOT USED

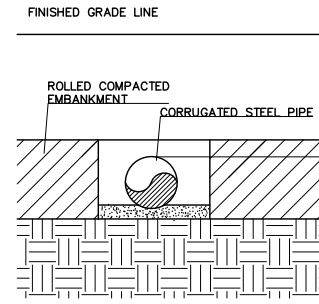
WIDENING FOR CURVATURE

DEGREE OF CURVE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28-30
WIDENING	NIL	NIL	NIL	NIL	NIL	0.60	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5

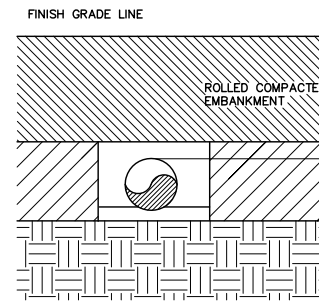
REF. ETHIOPIAN STANDARD



STEP 1
CONSTRUCT COMPACTED EMBANKMENT TO AN ELEVATION 150mm ABOVE TOP OF PROPOSED PIPE

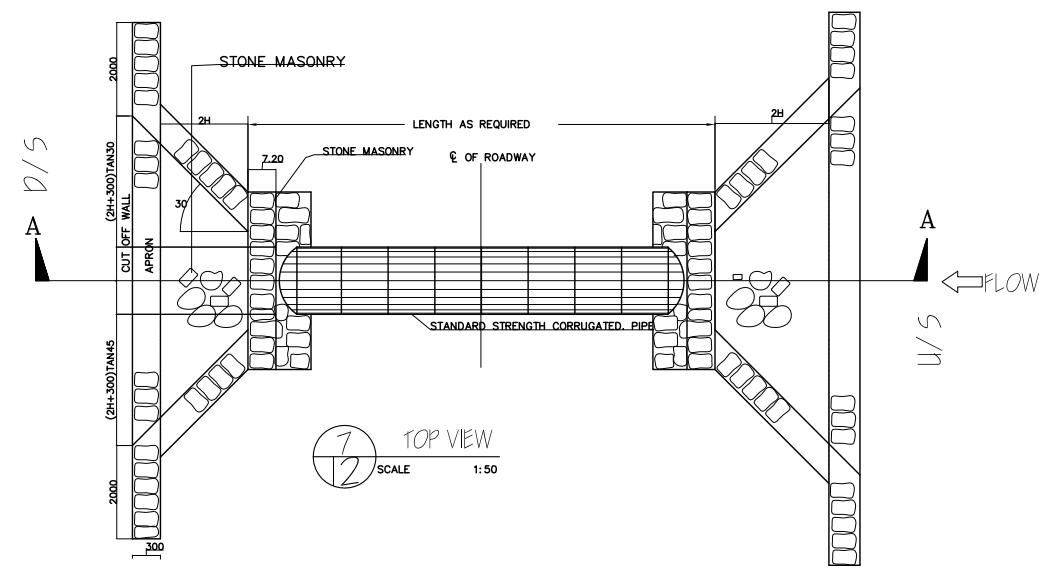


STEP 2
TRENCH THROUGH THIS COMPACTED EMBANKMENT AND INSTALL PIPE OVER GRANULAR BEDDING BACK FILL WITH COMPACTED GRANULAR MATERIAL

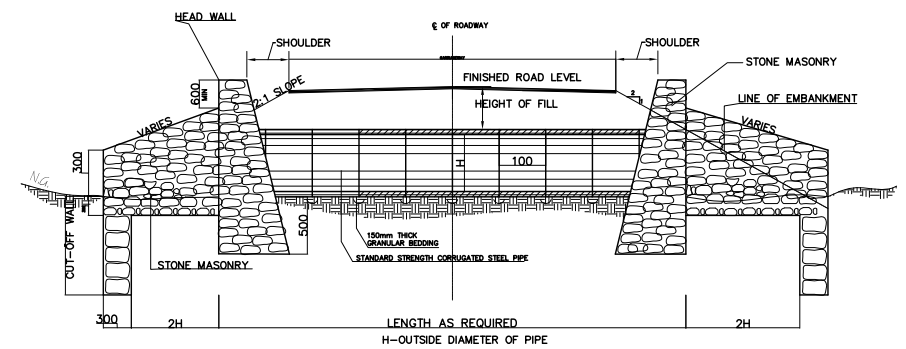


STEP 3
COMPLETE EMBANKMENT IN NORMAL MANNER

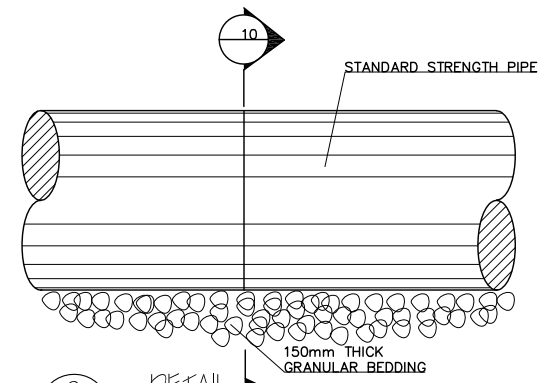
6
12 METHODS OF PIPE INSTALLATION NOT TO SCALE



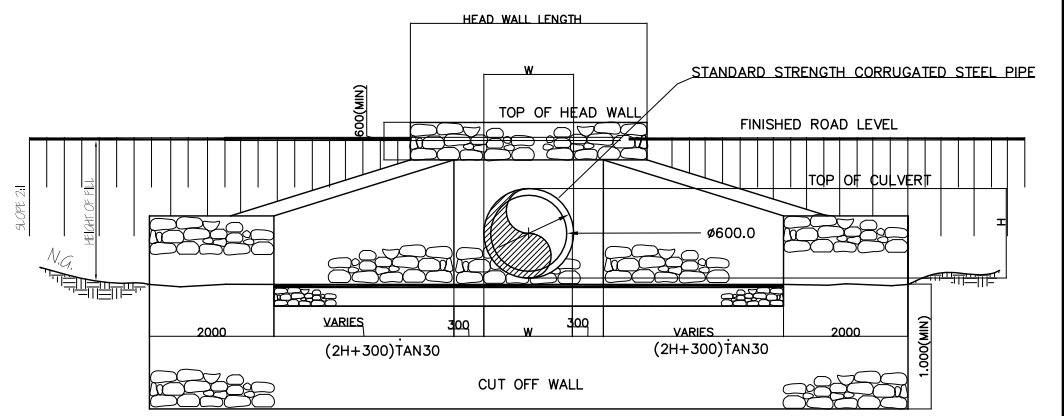
7
12 TOP VIEW SCALE 1:50



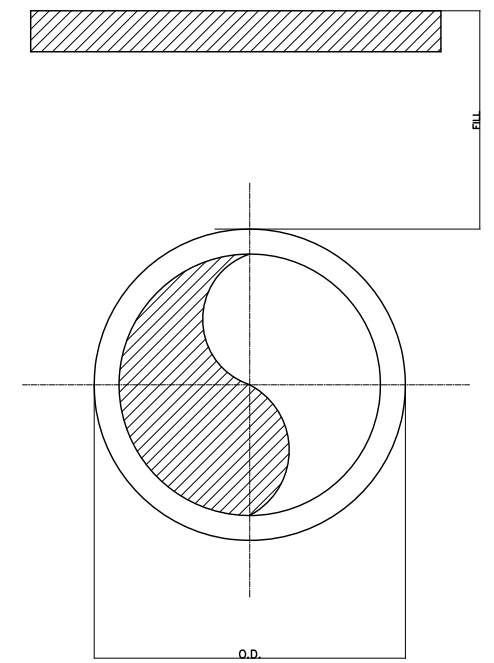
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12 SECTION A-A SCALE 1:50



9
12 DETAIL SCALE 1:25

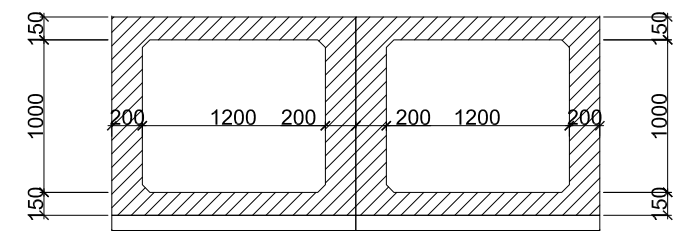
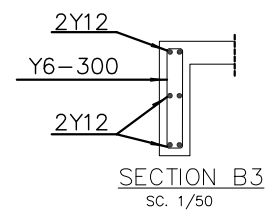
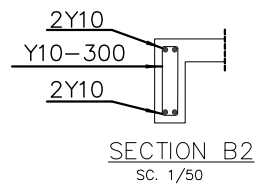
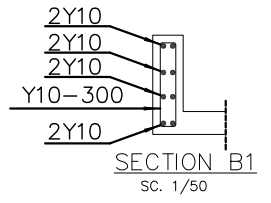
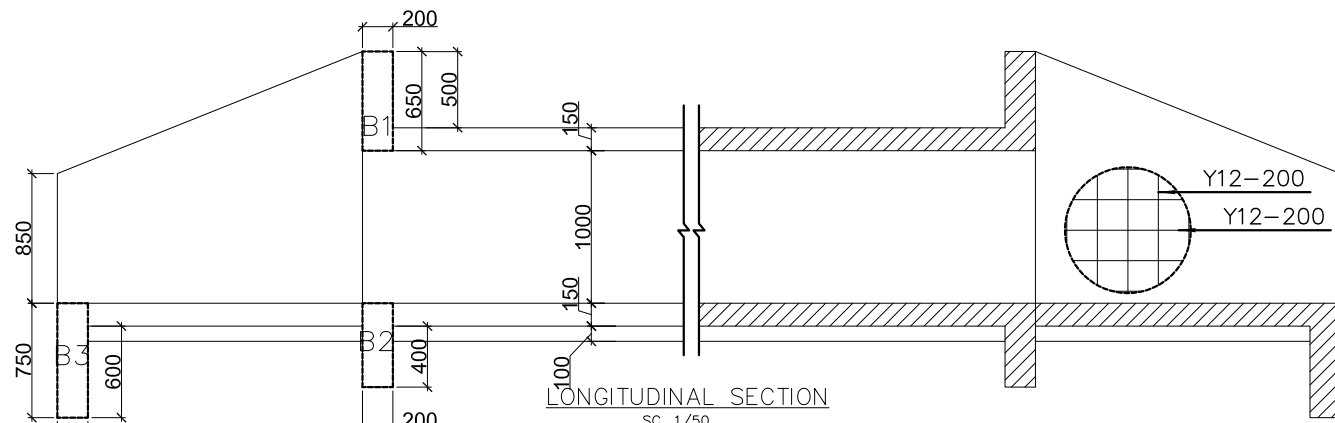


11a
12 ELEVATION SCALE 1:50

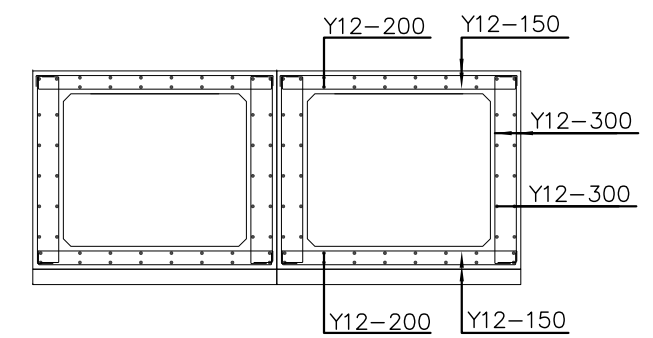


NOTE:
- THIS IS FOR SINGLE PIPE,
- THE SAME APPLIES TRUE FOR DOUBLE PIPES AS WELL

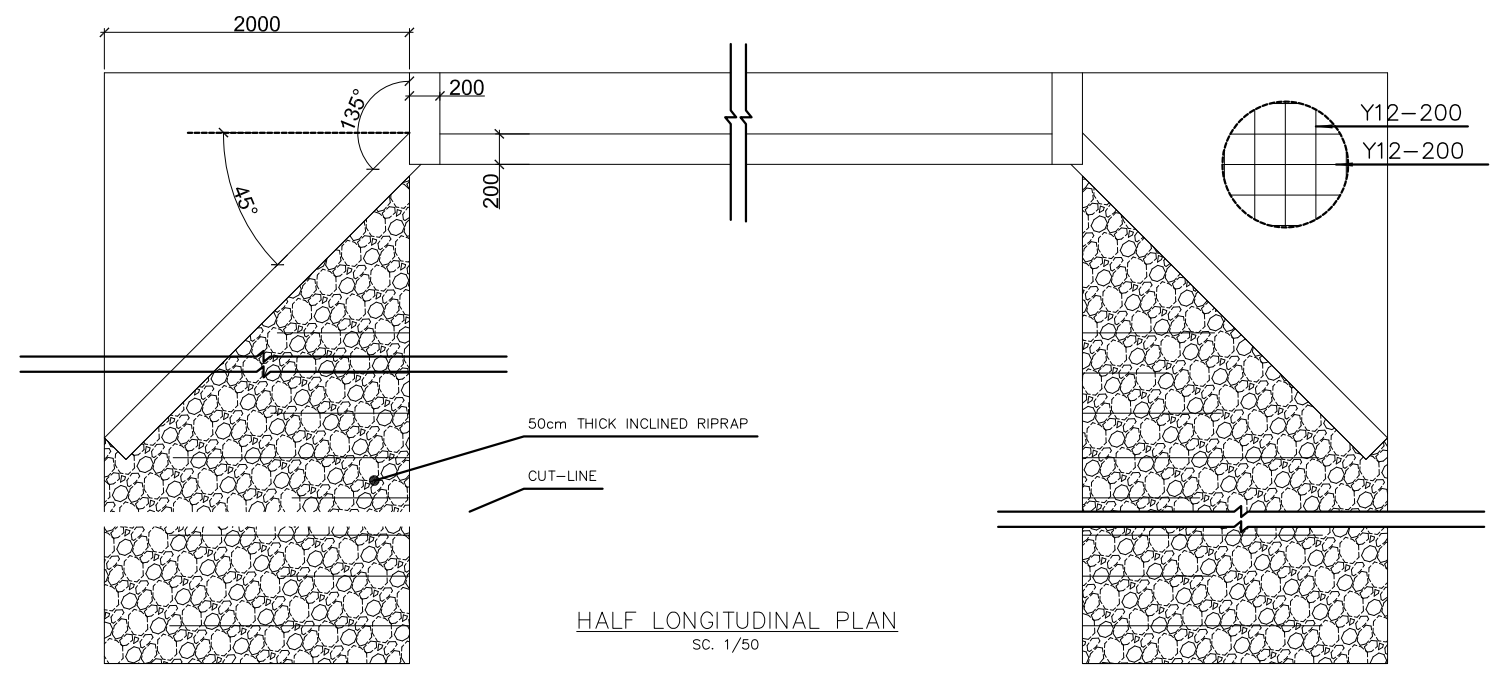
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	DWG. NO.
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>		MARIDI - MUDUBAI ACCESS ROAD			04
			SHEET CONTENT:			
			CORRUGATED STEEL PIPE DETAILS			
				DATE: FEBRUARY 2023		SHEET 1_OF_1 SHEETS



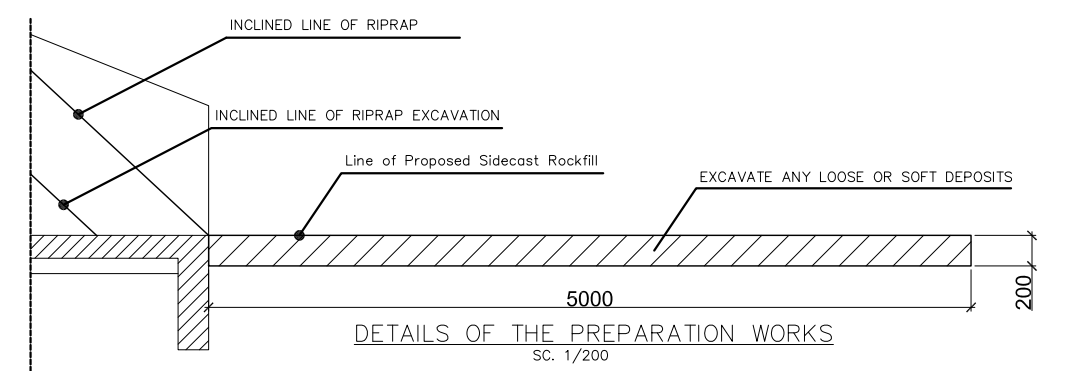
2 CELL-CONCRETE
SC. 1/50



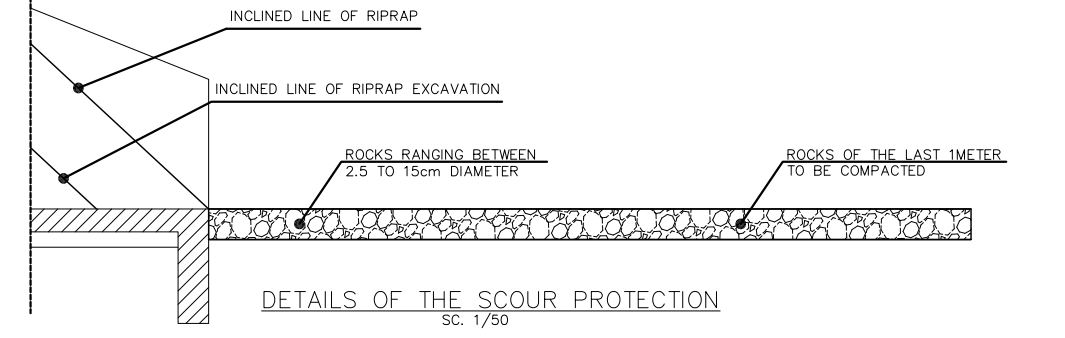
2 CELLS-SECTION REINFORCEMENT
SC. 1/50




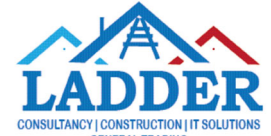
HALF LONGITUDINAL PLAN
SC. 1/50

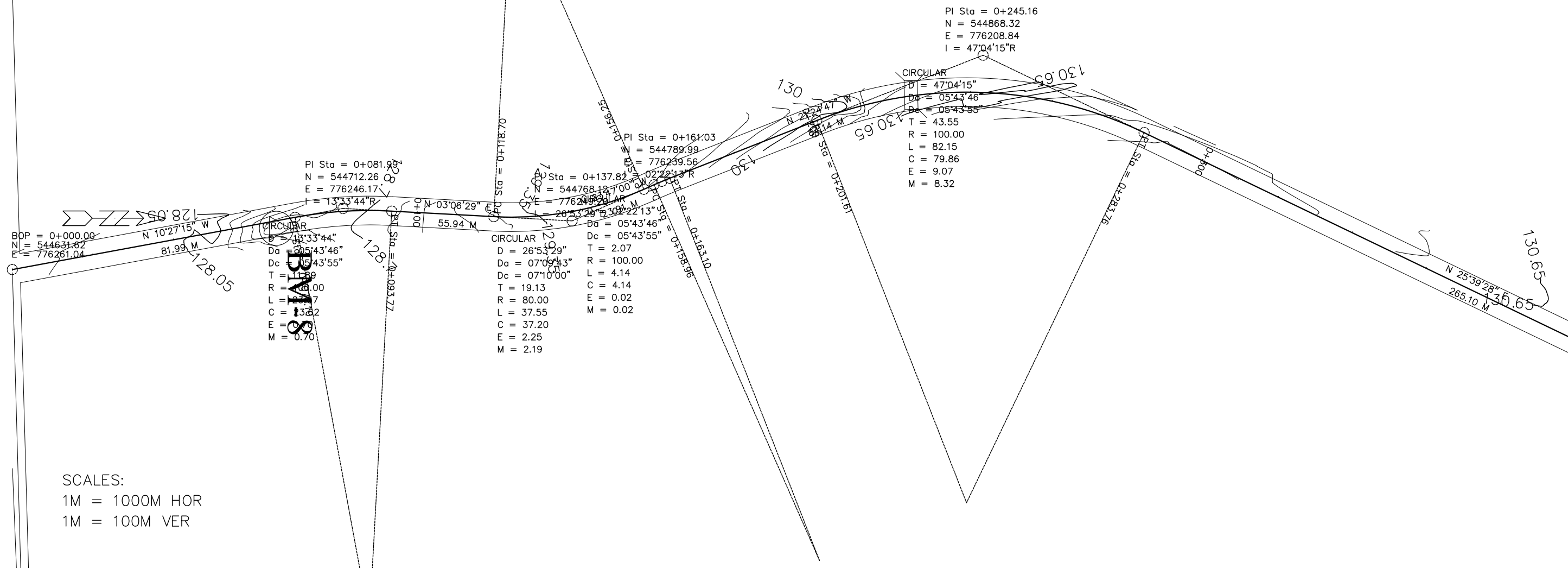


DETAILS OF THE PREPARATION WORKS
SC. 1/200



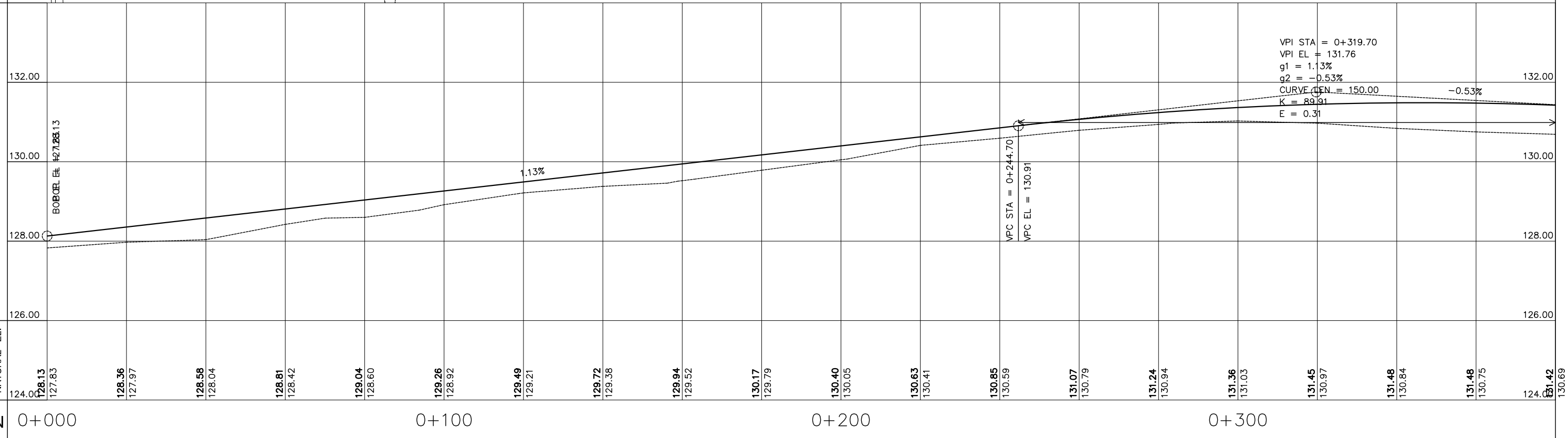
DETAILS OF THE SCOUR PROTECTION
SC. 1/50

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	DWG. NO.
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI ACCESS ROAD SHEET CONTENT: DOUBLE CELL BOX CULVERT DETAILS		DWG. Scale: AS SHOWN DATE: FEBRUARY 2023	05 SHEET 1_OF_1_SHEETS



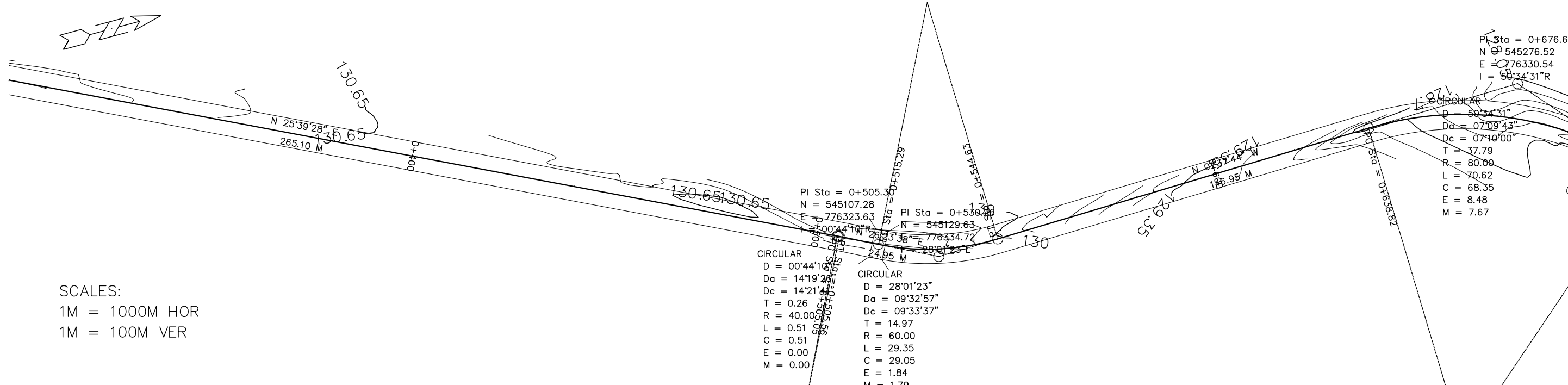
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



DESIGN EL.	NATURAL EL.	STN
124.00	124.00	0+000
127.83	127.83	
128.36	127.97	
128.58	128.04	
128.81	128.42	
129.04	128.60	
129.26	128.92	
129.49	129.21	
129.72	129.38	
129.94	129.52	
130.17	129.79	
130.40	130.05	
130.63	130.41	
130.85	130.59	
131.07	130.79	
131.24	130.94	
131.36	131.03	
131.45	130.97	
131.48	130.84	
131.48	130.75	
131.42	130.69	

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>	<p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	MARIDI - MUDUBAI - ACCESS ROAD			01	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 0+000 TO STA. 0+380				



SCALES:
 1M = 1000M HOR
 1M = 100M VER

PI Sta = 0+505.30
 N = 545107.28
 E = 776323.63

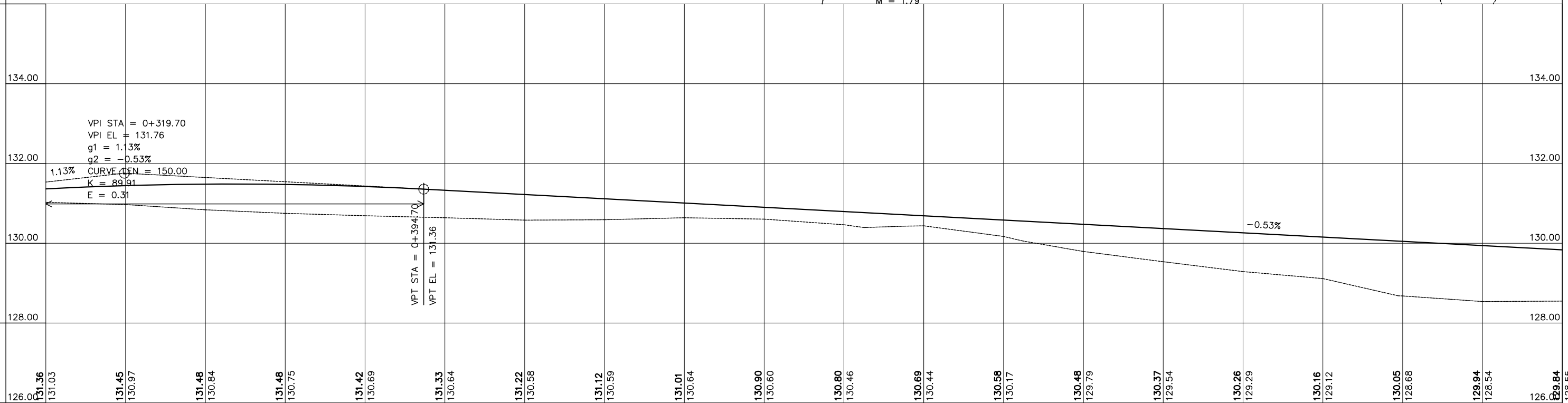
PI Sta = 0+530.89
 N = 545129.63
 E = 776334.72

CIRCULAR
 D = 00°44'10\"/>

PI Sta = 0+676.61
 N = 545276.52
 E = 776330.54
 I = 90°34'31\"/>

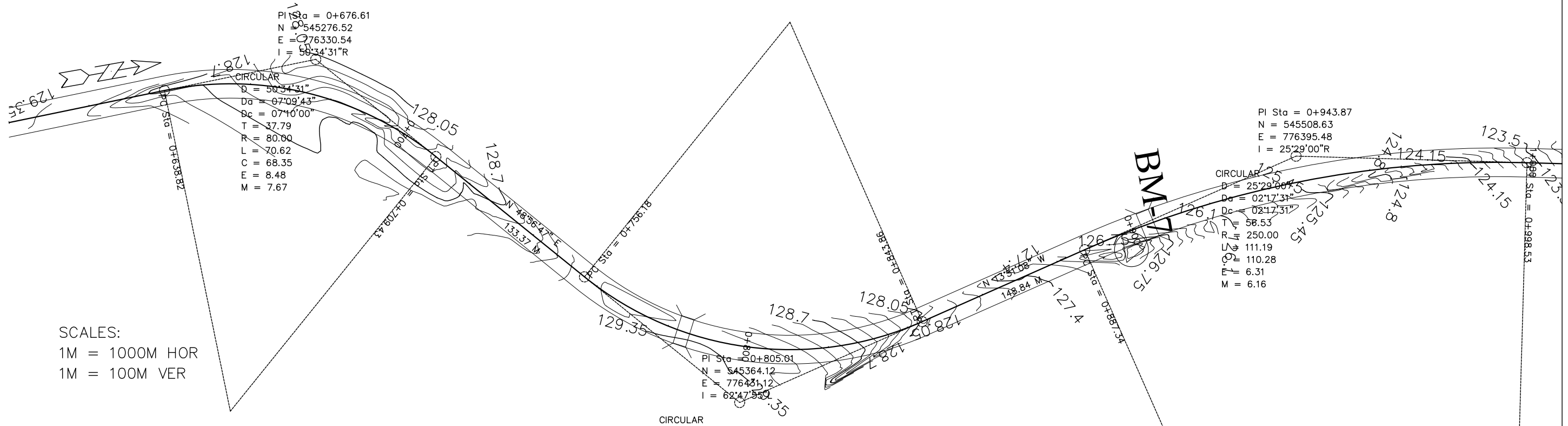
CIRCULAR
 D = 50°34'31\"/>

ELEVATIONS



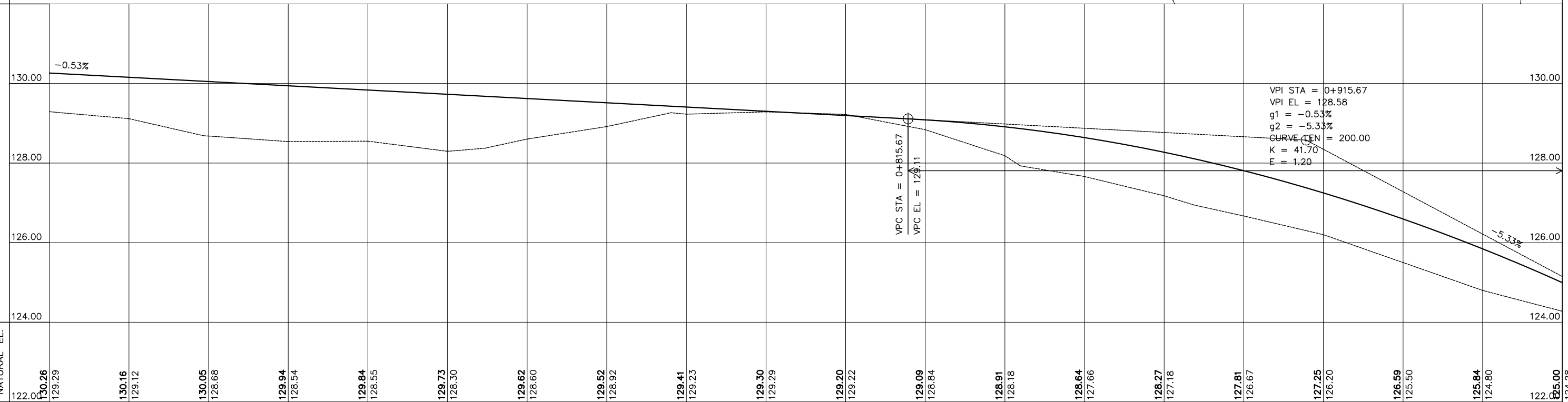
DESIGN EL.	NATURAL EL.	STN
126.00	131.36	0+300
131.03	131.03	
131.45	130.97	
131.48	130.84	
131.48	130.75	
131.42	130.69	
131.33	130.64	
131.22	130.58	
131.12	130.59	
131.01	130.64	
130.90	130.60	
130.80	130.46	
130.69	130.44	
130.58	130.17	
130.48	129.79	
130.37	129.54	
130.26	129.29	
130.16	129.12	
130.05	128.68	
129.94	128.54	
129.84	128.55	0+680

<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>	Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	PROJECT TITLE:	MARIDI - MUDUBAI - ACCESS ROAD	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
			SHEET CONTENT:	PLAN AND PROFILE	DWG. Scale:	AS SHOWN	
			STATION LIMITS:	STA. 0+300 TO STA. 0+680	DATE:	FEBRUARY 2023	



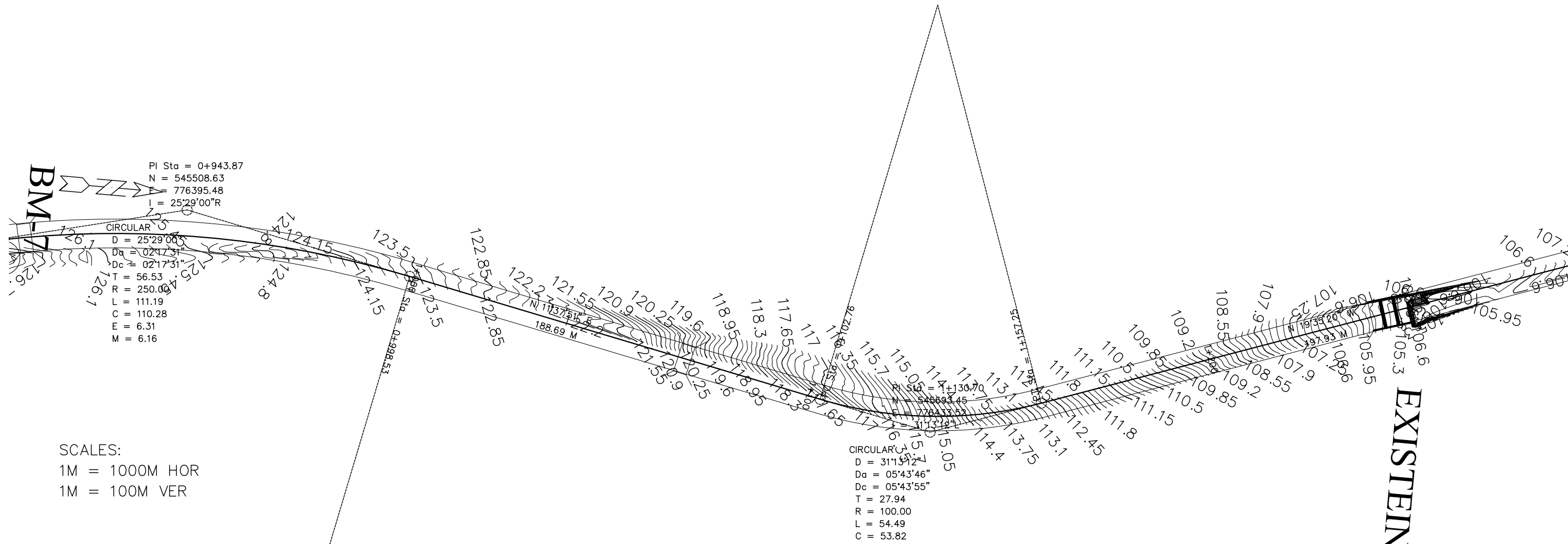
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



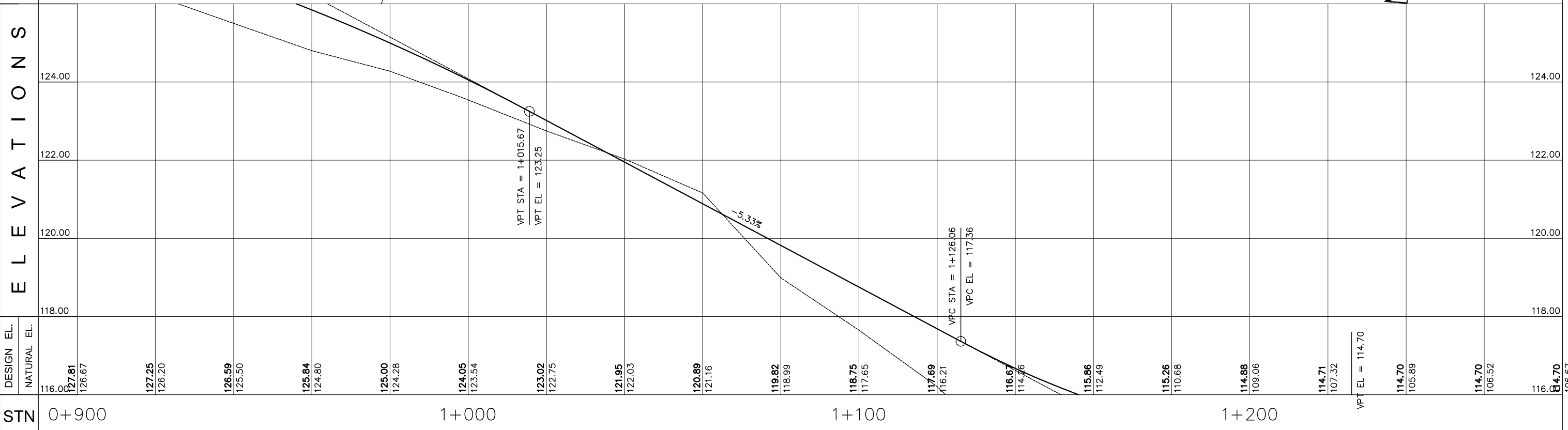
DESIGN EL.	NATURAL EL.	STN
122.00	130.26	0+600
122.00	129.29	0+610
122.00	130.16	0+620
122.00	129.12	0+630
122.00	130.05	0+640
122.00	128.68	0+650
122.00	129.94	0+660
122.00	128.54	0+670
122.00	129.84	0+680
122.00	128.55	0+690
122.00	129.73	0+700
122.00	128.30	0+710
122.00	129.62	0+720
122.00	128.60	0+730
122.00	129.52	0+740
122.00	128.92	0+750
122.00	129.41	0+760
122.00	129.23	0+770
122.00	129.30	0+780
122.00	129.29	0+790
122.00	129.20	0+800
122.00	129.22	0+810
122.00	129.09	0+820
122.00	128.84	0+830
122.00	128.91	0+840
122.00	128.18	0+850
122.00	128.64	0+860
122.00	127.66	0+870
122.00	128.27	0+880
122.00	127.18	0+890
122.00	127.81	0+900
122.00	126.67	0+910
122.00	127.25	0+920
122.00	126.20	0+930
122.00	126.59	0+940
122.00	125.50	0+950
122.00	125.84	0+960
122.00	124.80	0+970
122.00	125.00	0+980

<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>PROJECT TITLE: MARIDI - MUDUBAI - ACCESS ROAD</p> <p>SHEET CONTENT: PLAN AND PROFILE</p> <p>STATION LIMITS: STA. 0+600 TO STA. 0+980</p>	<p>REVISIONS:</p>	CAD/DRAWN BY:	SHEET NO. 03
				DWG. Scale: AS SHOWN	DATE: FEBRUARY 2023

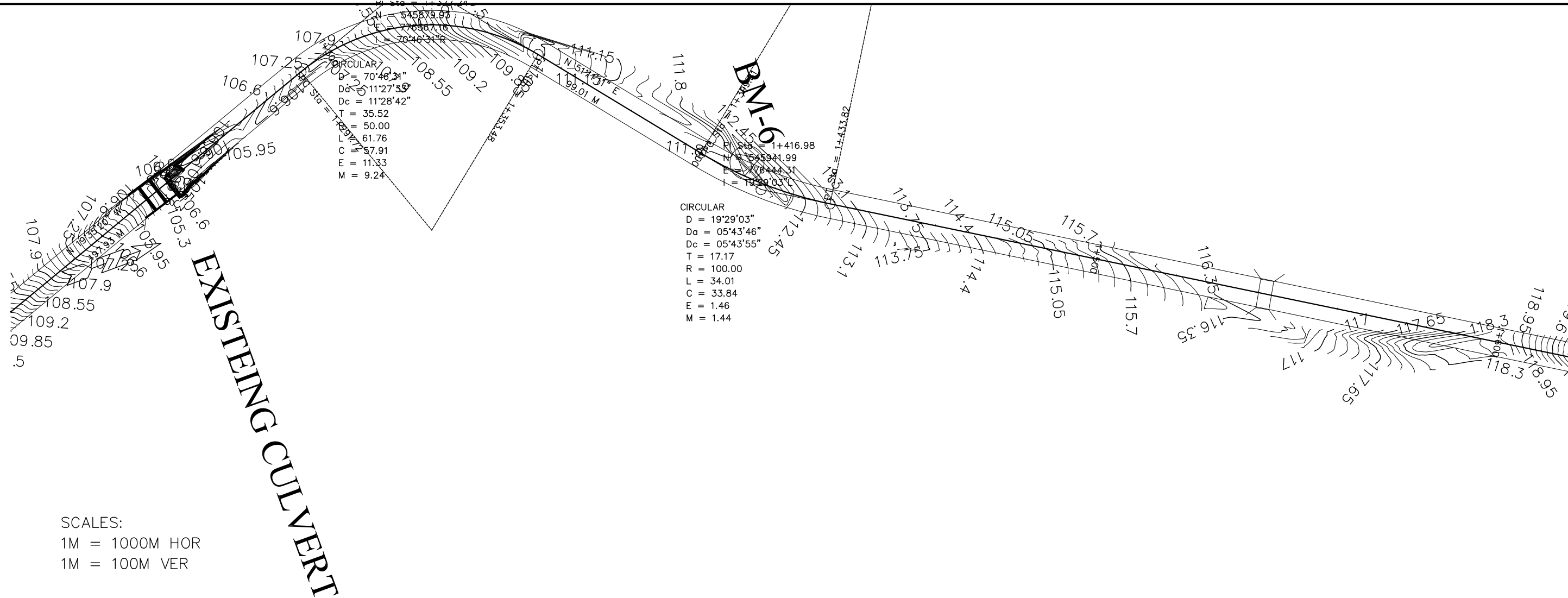


SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

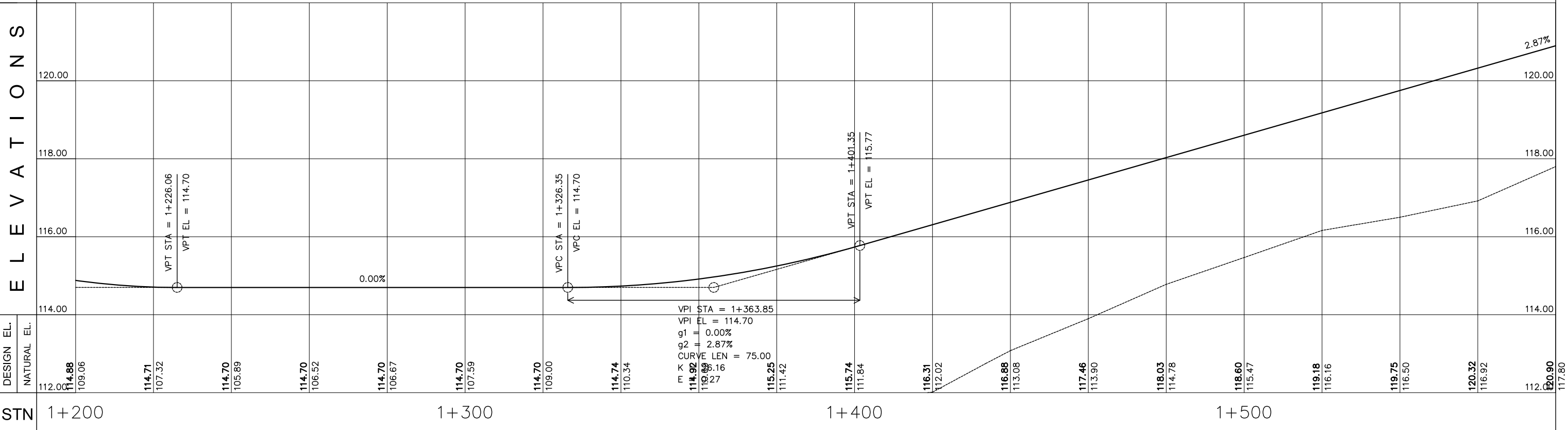


EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>		MARIDI - MUDUBAI - ACCESS ROAD			4	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 0+900 TO STA. 1+280				

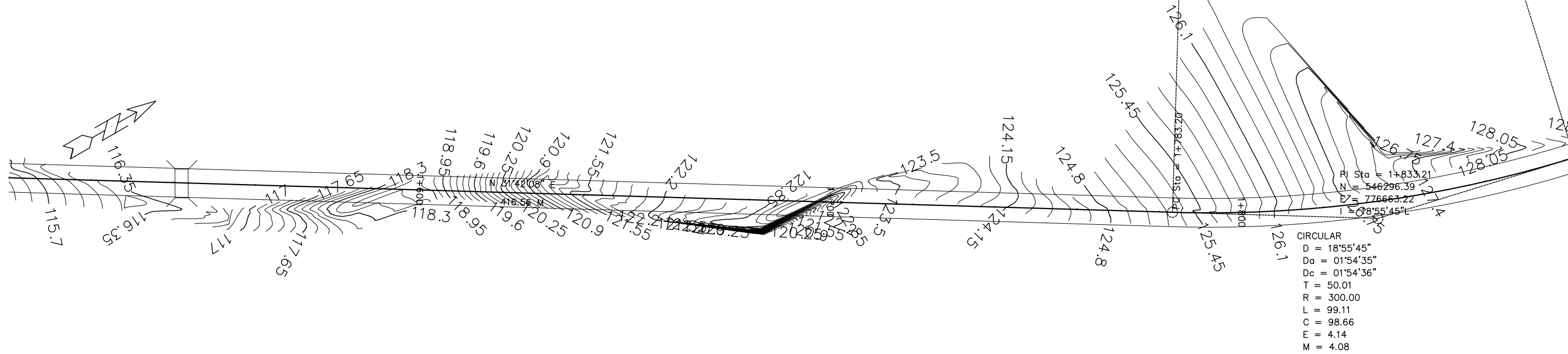


SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

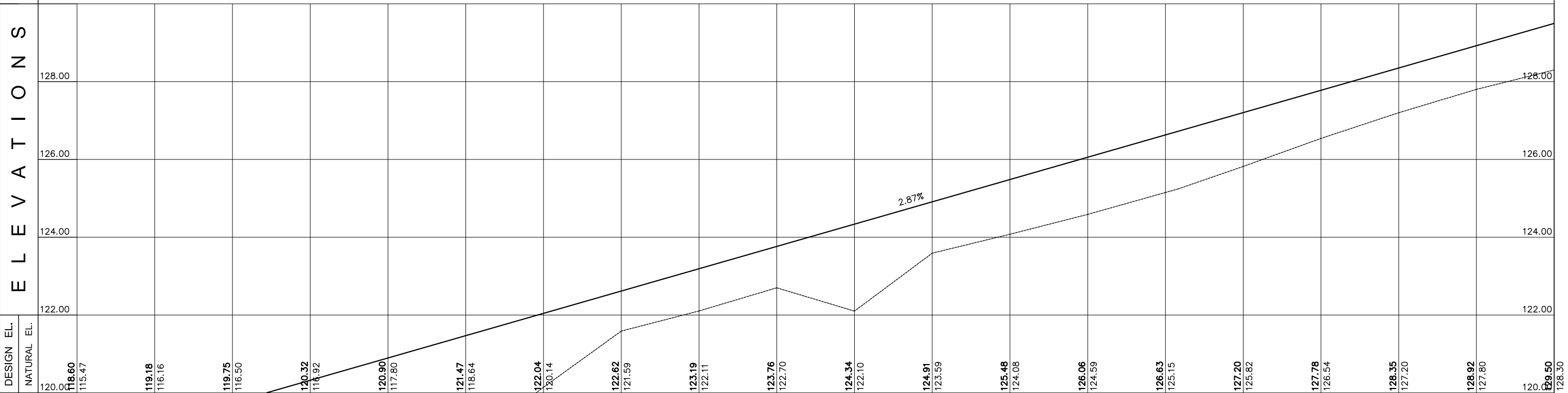


EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			5	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 1+200 TO STA. 1+580				



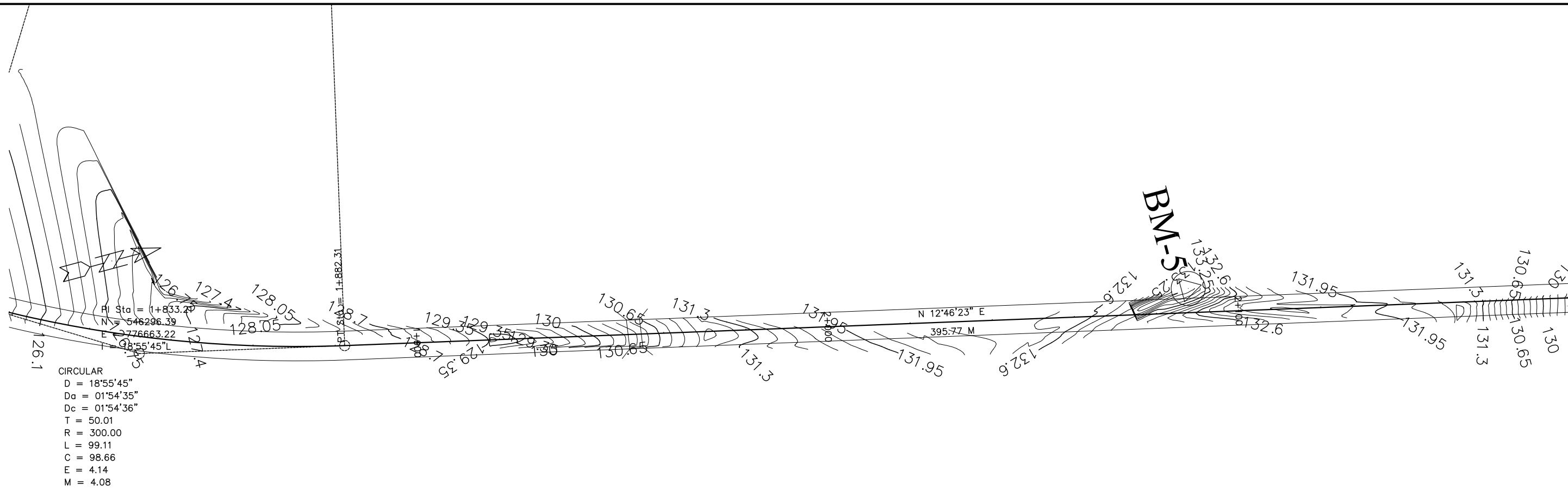
SCALES:
 1M = 1000M HOR
 1M = 100M VER

E L E V A T I O N S



STN	1+500	1+600	1+700	1+800
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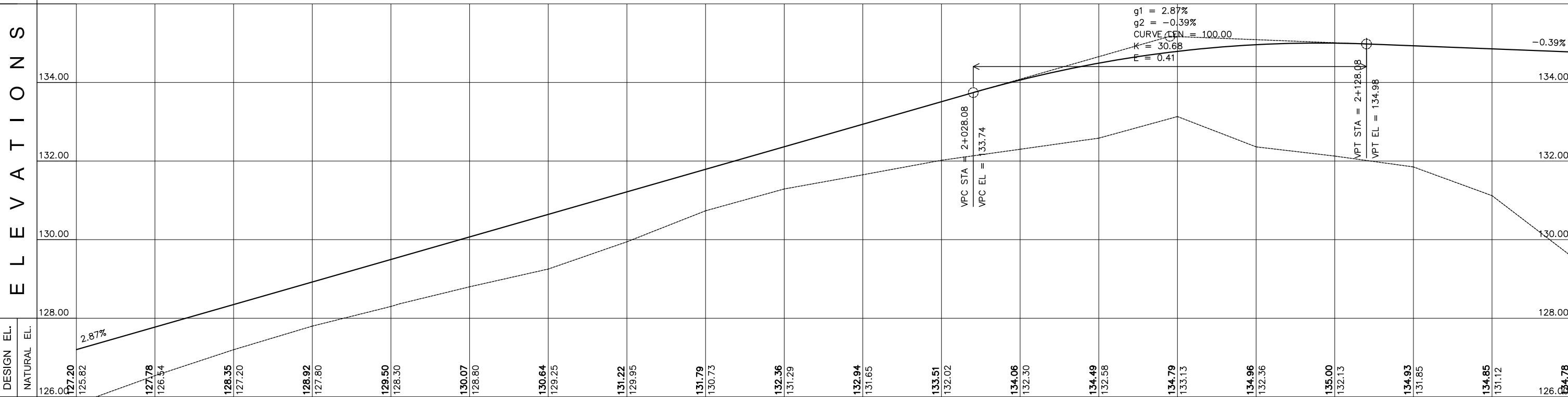
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.		
					MARIDI - MUDUBAI - ACCESS ROAD				6	
					SHEET CONTENT:				DWG. Scale:	AS SHOWN
					STATION LIMITS				DATE:	FEBRUARY 2023



CIRCULAR
 D = 18°55'45"
 Da = 01°54'35"
 Dc = 01°54'36"
 T = 50.01
 R = 300.00
 L = 99.11
 C = 98.66
 E = 4.14
 M = 4.08

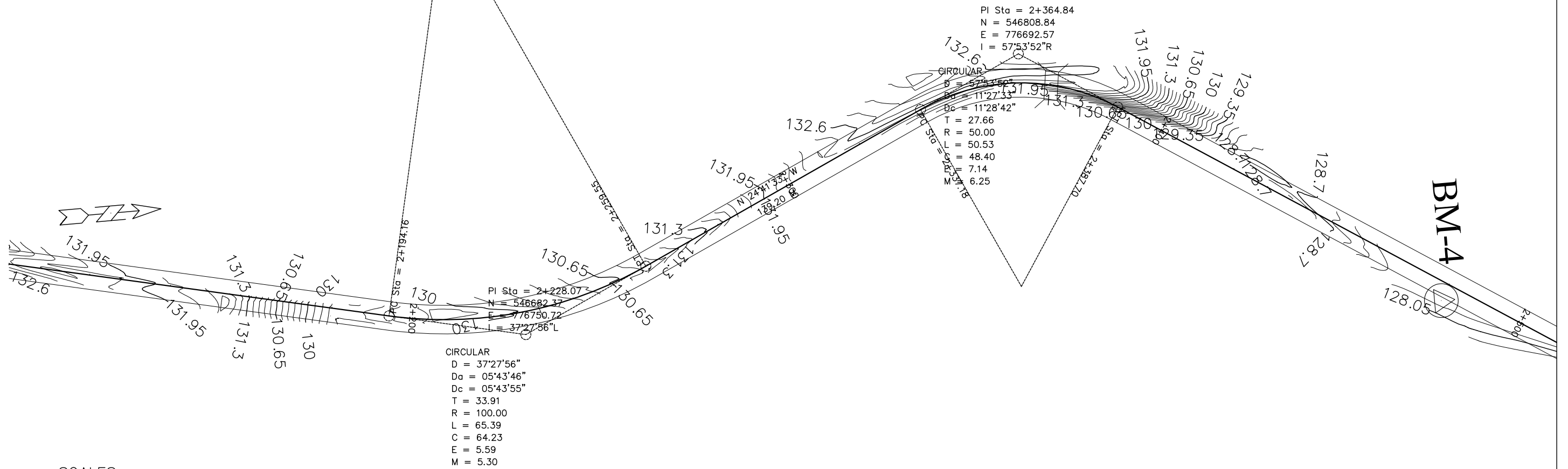
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



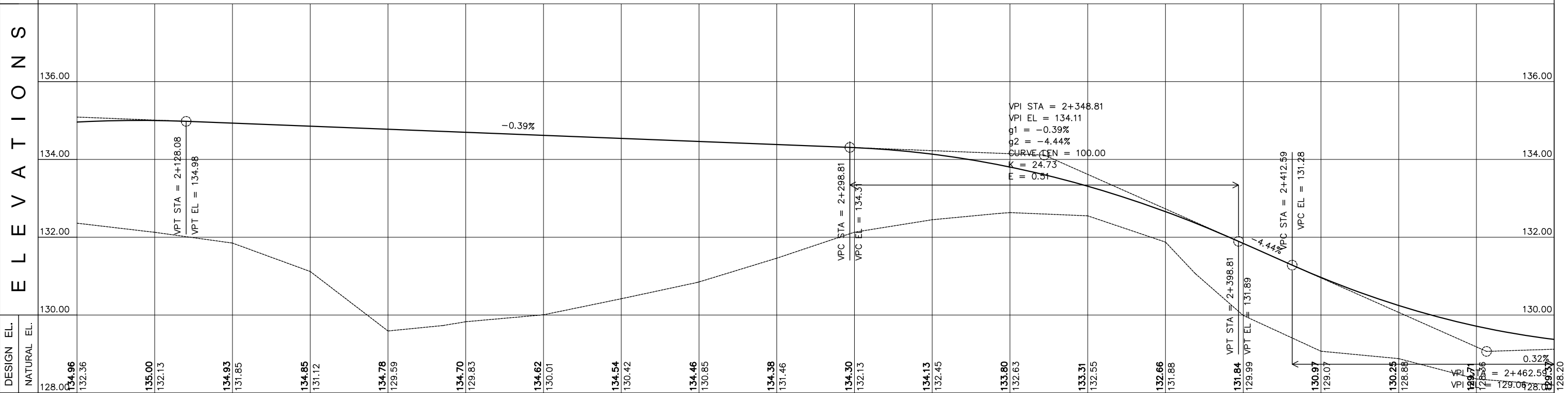
DESIGN EL.	NATURAL EL.	STN
126.00	127.20	1+800
125.82	127.20	
127.78	127.20	
126.54	127.20	
128.35	127.20	
127.80	127.80	
128.92	127.80	
129.50	128.30	
128.30	128.30	
130.07	128.80	
128.80	128.80	
130.64	129.25	
129.25	129.25	
131.22	129.95	
129.95	129.95	
131.79	130.73	
130.73	130.73	
132.36	131.29	
131.29	131.29	
132.94	131.65	
131.65	131.65	
133.51	132.02	
132.02	132.02	
134.06	132.30	
132.30	132.30	
134.49	132.58	
132.58	132.58	
134.79	133.13	
133.13	133.13	
134.96	132.36	
132.36	132.36	
135.00	132.13	
132.13	132.13	
134.93	131.85	
131.85	131.85	
134.85	131.12	
131.12	131.12	
126.84	126.84	2+100
129.59	129.59	

<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p> <p>MARIDI - MUDUBAI - ACCESS ROAD</p>	<p>REVISIONS:</p>	<p>CAD/DRAWN BY:</p>	<p>SHEET NO.</p> <p>7</p>
			<p>SHEET CONTENT:</p> <p>PLAN AND PROFILE</p> <p>STATION LIMITS</p> <p>STA. 1+800 TO STA. 2+180</p>	<p>DWG. Scale:</p> <p>AS SHOWN</p>	<p>DATE:</p> <p>FEBRUARY 2023</p>	



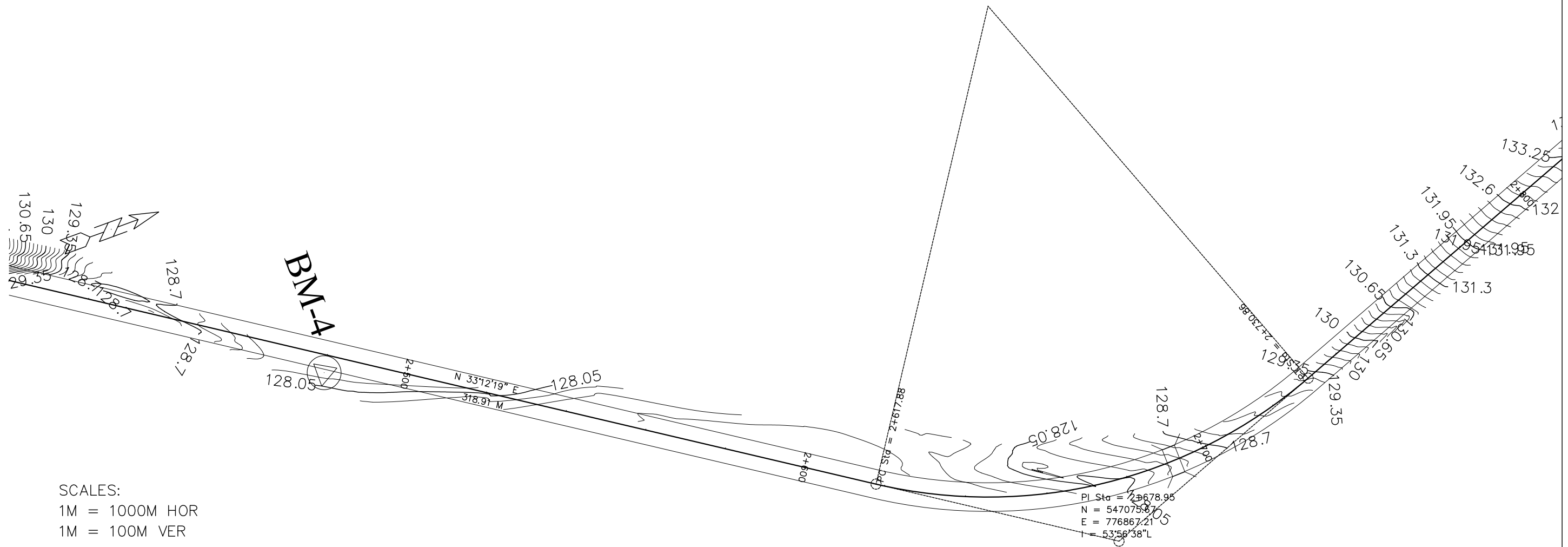
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



DESIGN EL.	134.96	135.00	134.93	134.85	134.78	134.70	134.62	134.54	134.46	134.38	134.30	134.13	133.80	133.31	132.66	131.84	130.97	130.25	129.71	129.36	128.20
NATURAL EL.	132.36	132.13	131.85	131.12	129.59	129.83	130.01	130.42	130.85	131.46	132.13	132.45	132.63	132.55	131.88	129.99	129.07	128.88	128.71	128.56	128.20
STN	2+100					2+200					2+300					2+400					

ACTED South Sudan Western Equatoria State The Republic of South Sudan	LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	APPROVED BY:	PROJECT TITLE: MARIDI - MUDUBAI - ACCESS ROAD	REVISIONS:	CAD/DRAWN BY:	SHEET NO. 8
EMPLOYER:			DESIGNED/PREPARED BY:	SHEET CONTENT: PLAN AND PROFILE	DWG. Scale: AS SHOWN	DATE: FEBRUARY 2023
STATION LIMITS: STA. 2+100 TO STA. 2+480						

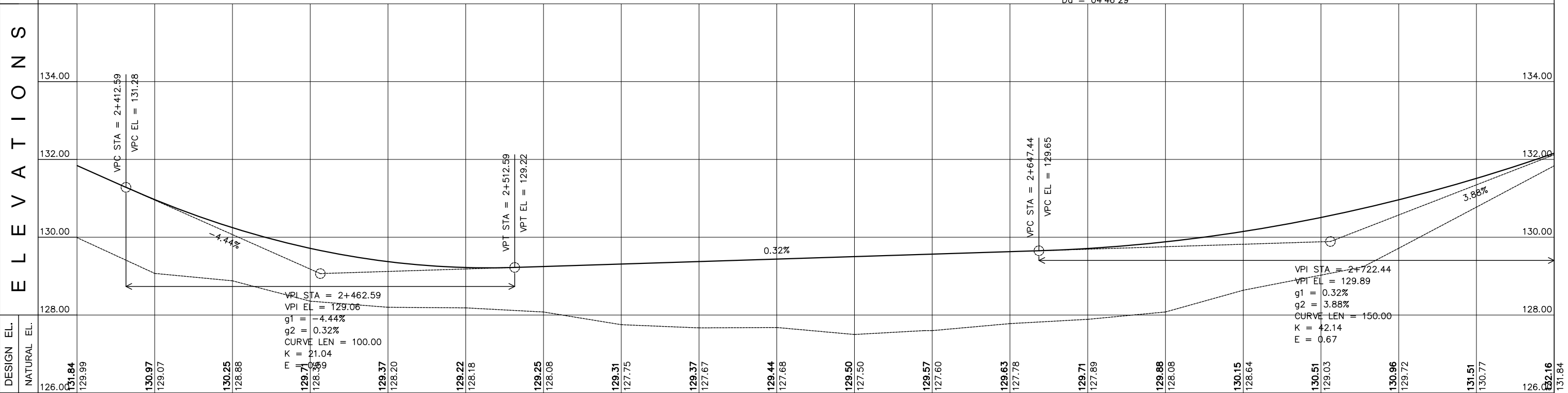


SCALES:
 1M = 1000M HOR
 1M = 100M VER

PI Sta = 2+678.95
 N = 547075.87
 E = 776867.21
 I = 53°58'38\"/>

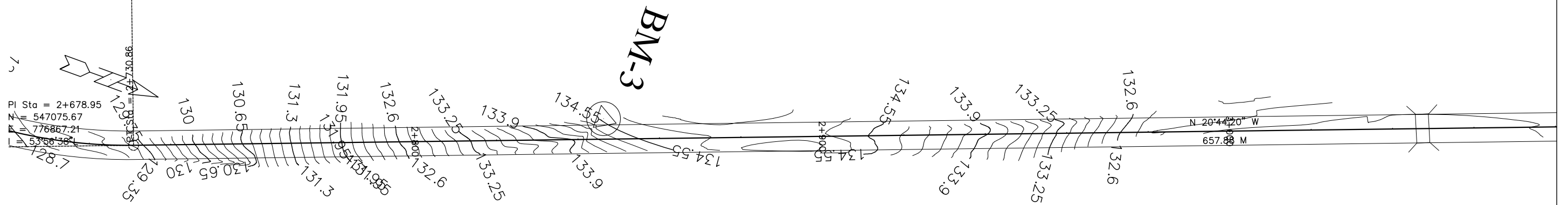
CIRCULAR
 D = 53°56'38\"/>

E L E V A T I O N S



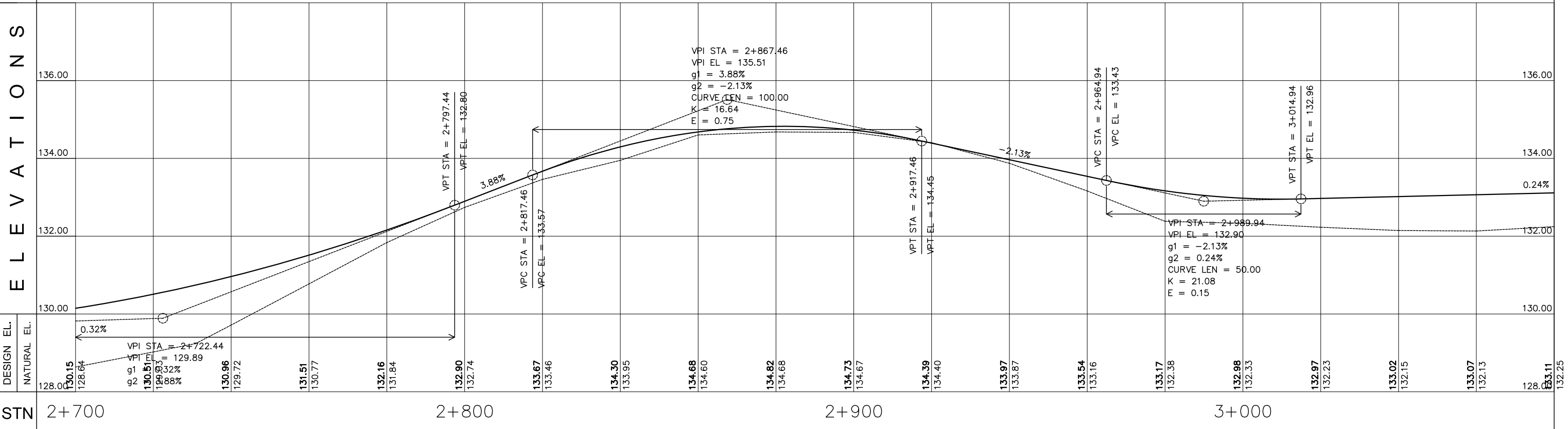
DESIGN EL.	NATURAL EL.	STN
131.84	129.99	2+400
130.97	129.07	2+410
130.25	128.88	2+420
129.71	128.36	2+430
129.37	128.20	2+440
129.22	128.18	2+450
129.25	128.08	2+460
129.31	127.75	2+470
129.37	127.67	2+480
129.44	127.68	2+490
129.50	127.50	2+500
129.57	127.60	2+510
129.63	127.78	2+520
129.71	127.89	2+530
129.88	128.08	2+540
130.15	128.64	2+550
130.51	129.03	2+560
130.96	129.72	2+570
131.51	130.77	2+580
132.16	131.84	2+590

<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p> <p>MARIDI - MUDUBAI - ACCESS ROAD</p>	<p>REVISIONS:</p>	<p>CAD/DRAWN BY:</p>	<p>SHEET NO.</p> <p>9</p>
			<p>SHEET CONTENT:</p> <p>PLAN AND PROFILE</p> <p>STATION LIMITS</p> <p>STA. 2+400 TO STA. 2+780</p>	<p>DWG. Scale:</p> <p>AS SHOWN</p>	<p>DATE:</p> <p>FEBRUARY 2023</p>	

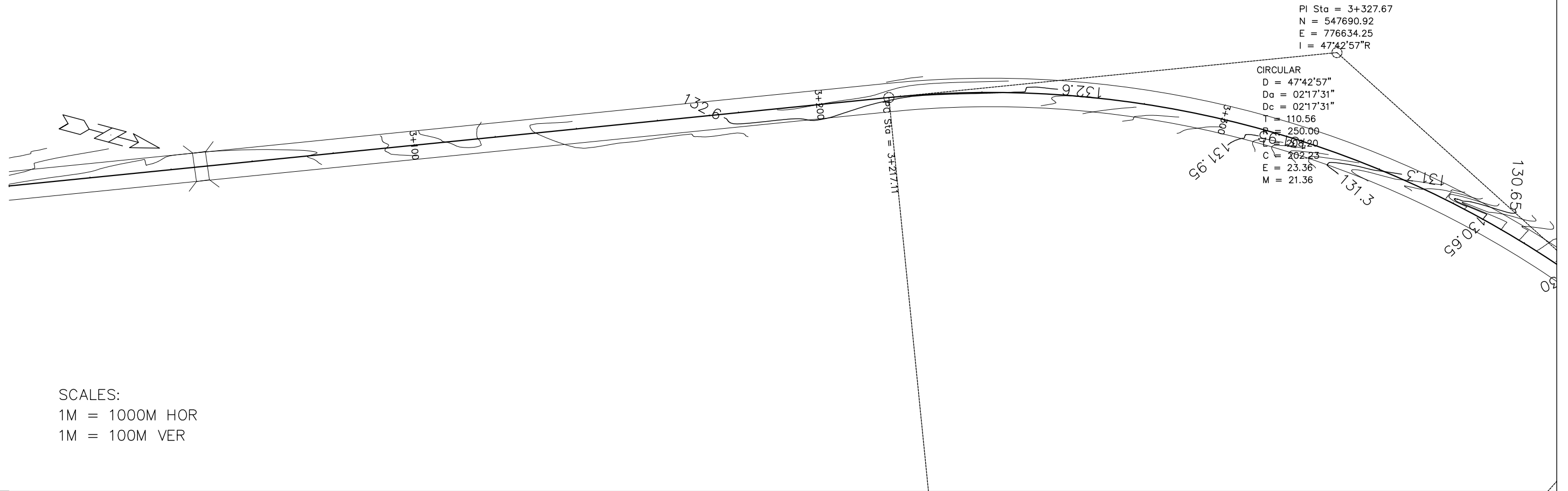


SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

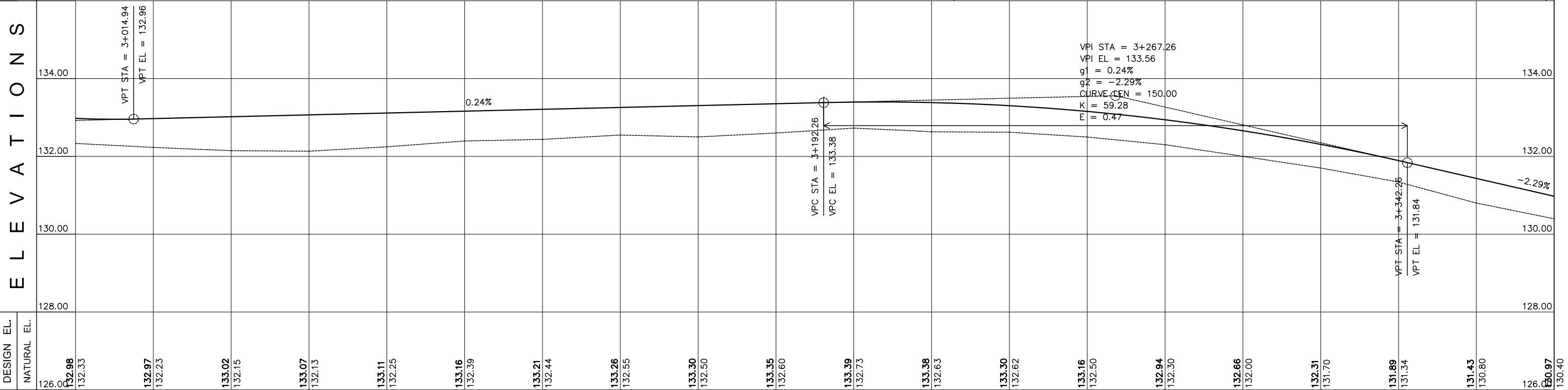


EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			10	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 2+700 TO STA. 3+080				



SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



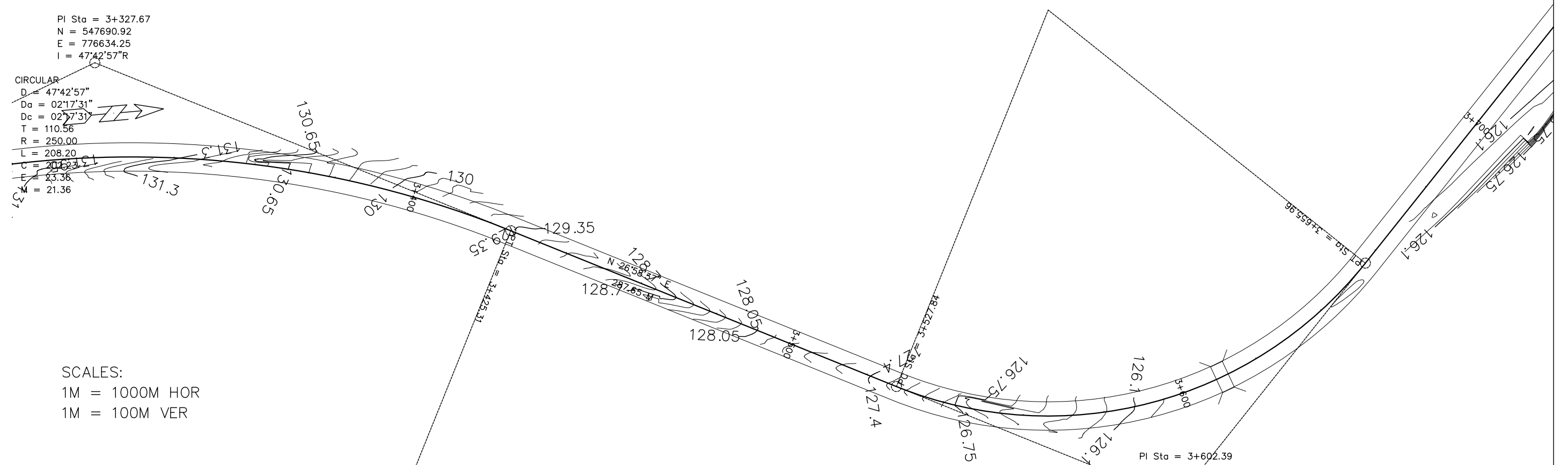
STN	3+000	3+100	3+200	3+300
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<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p> <p>MARIDI - MUDUBAI - ACCESS ROAD</p>	<p>REVISIONS:</p>	<p>CAD/DRAWN BY:</p>	<p>SHEET NO.</p> <p>11</p>
			<p>SHEET CONTENT:</p> <p>PLAN AND PROFILE</p> <p>STATION LIMITS</p> <p>STA. 3+000 TO STA. 3+380</p>	<p>DWG. Scale:</p> <p>AS SHOWN</p>	<p>DATE:</p> <p>FEBRUARY 2023</p>	

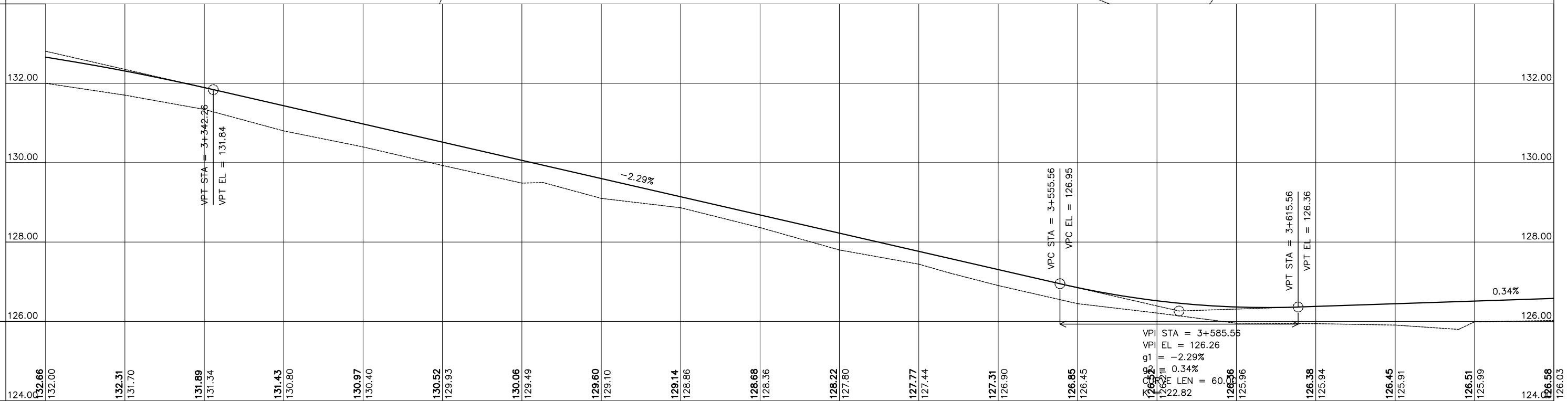
PI Sta = 3+327.67
 N = 547690.92
 E = 776634.25
 I = 47°42'57"R

CIRCULAR
 D = 47°42'57"
 Da = 02°17'31"
 Dc = 02°17'31"
 T = 110.56
 R = 250.00
 L = 208.20
 C = 204.33
 E = 23.36
 A = 21.36

SCALES:
 1M = 1000M HOR
 1M = 100M VER

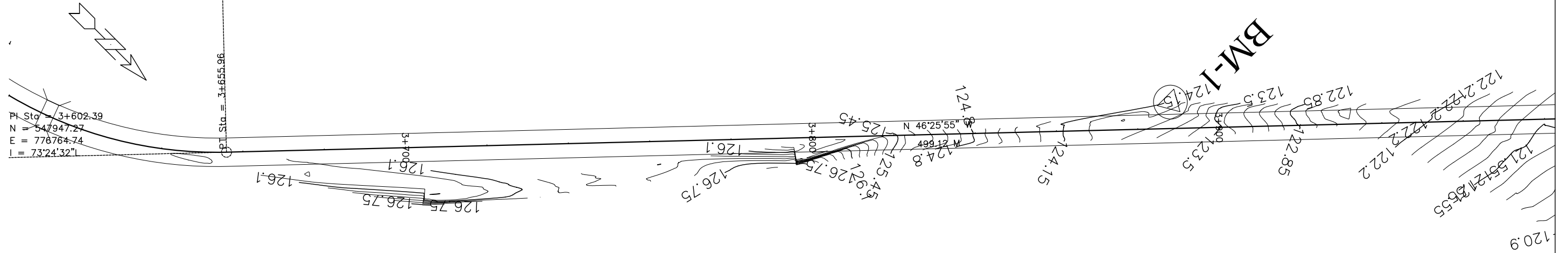


ELEVATIONS



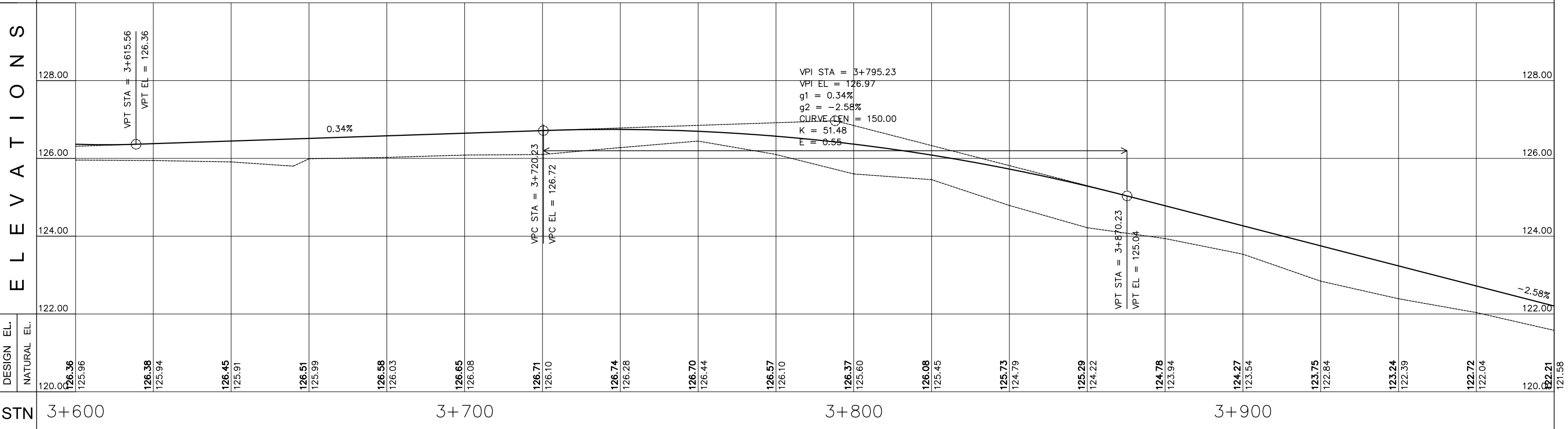
DESIGN EL.	NATURAL EL.	STN
132.66	132.00	3+300
131.89	131.70	3+310
131.34	131.34	3+342.26
131.43	130.80	3+350
130.97	130.40	3+360
130.52	129.93	3+370
130.06	129.49	3+380
129.60	129.10	3+390
129.14	128.66	3+400
128.68	128.36	3+410
128.22	127.80	3+420
127.77	127.44	3+430
127.31	126.90	3+440
126.85	126.45	3+455.56
126.36	125.96	3+515.56
126.38	125.94	3+615.56
126.45	125.91	3+620
126.51	125.99	3+630
126.58	126.03	3+640

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>		MARIDI - MUDUBAI - ACCESS ROAD			12	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 3+300 TO STA. 3+380				



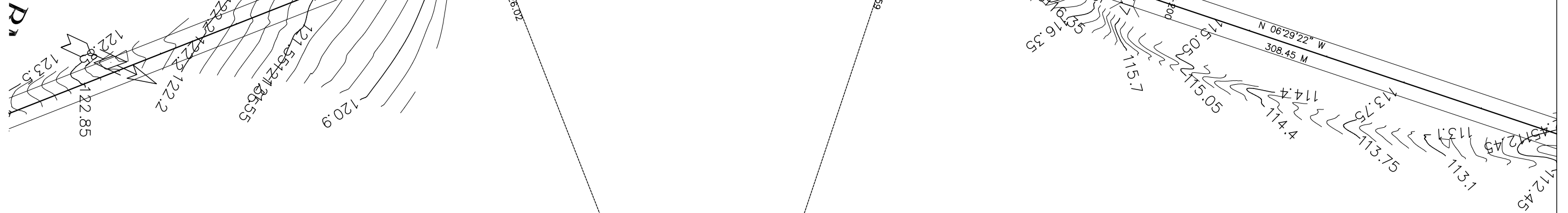
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



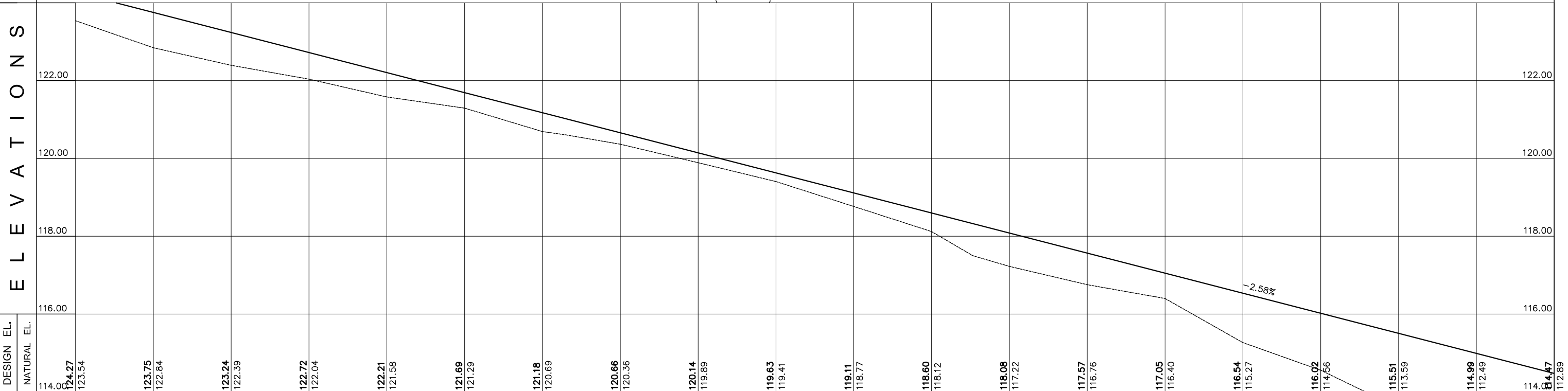
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>		MARIDI - MUDUBAI - ACCESS ROAD			13	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 3+600 TO STA. 3+980				

N = 548291.27
 E = 776403.10
 I = 39.56133°R
 D = 39°56'33"
 D₀ = 03°48'11"
 D₁ = 03°49'14"
 T = 54.51
 R = 190.00
 L = 104.57
 C = 102.46
 E = 9.60
 M = 9.02



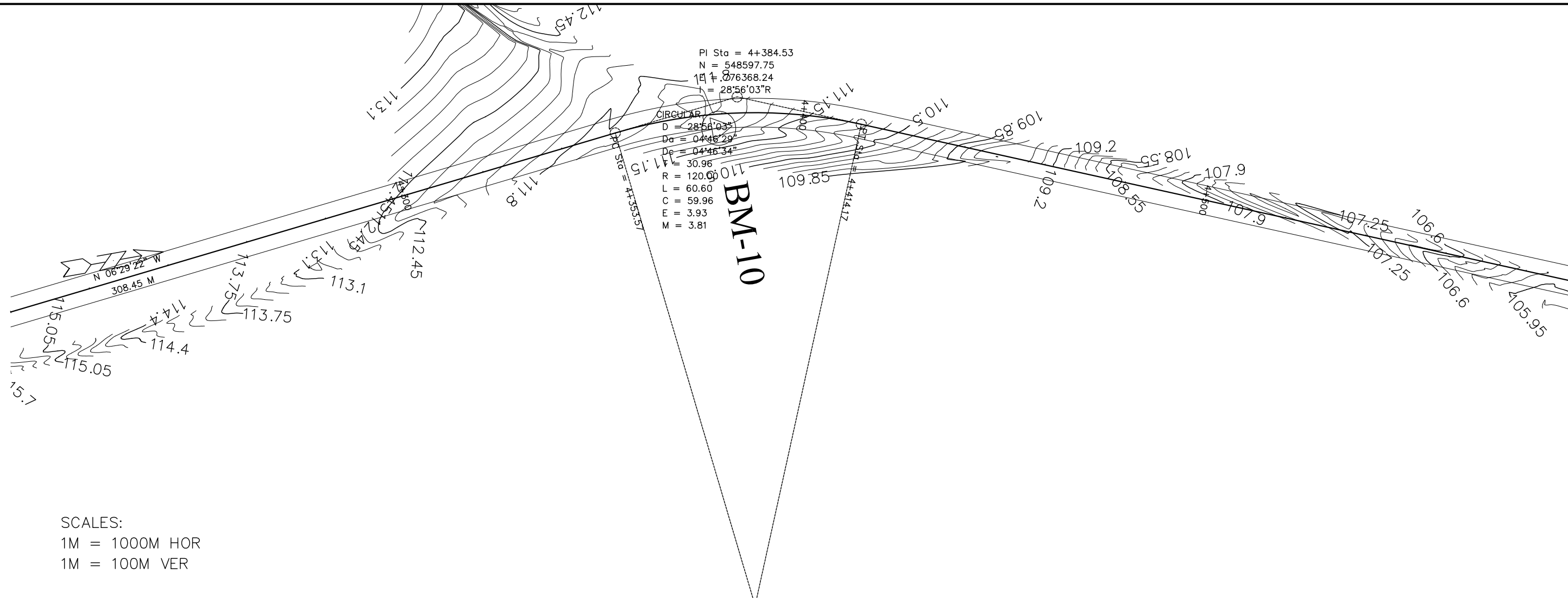
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

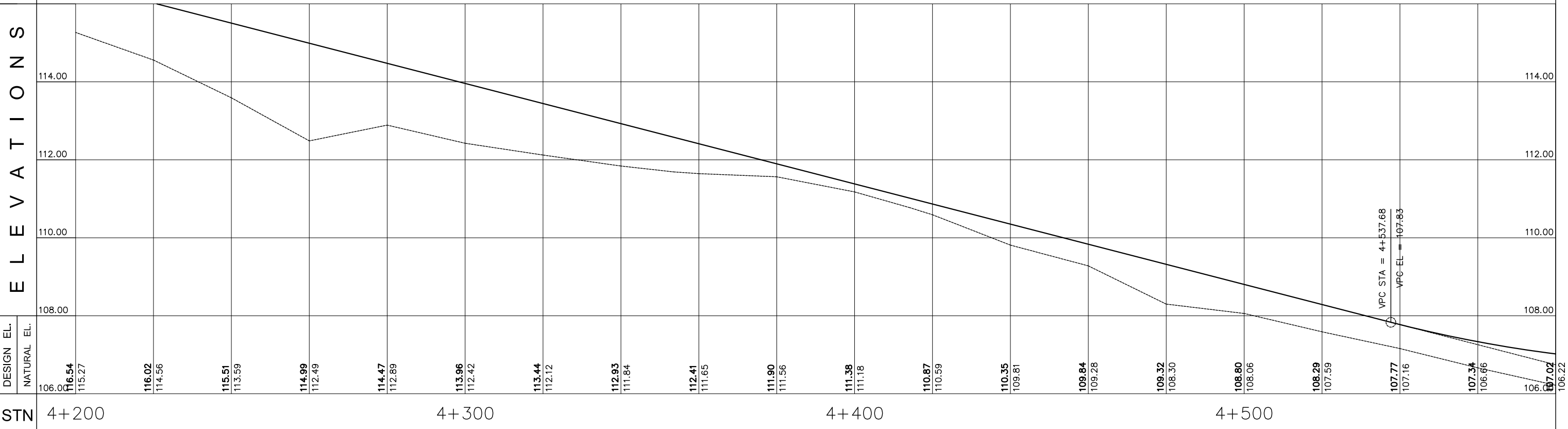


DESIGN EL.	NATURAL EL.	STN
114.00	124.27	3+900
114.00	123.54	
114.00	123.75	
114.00	122.84	
114.00	123.24	
114.00	122.39	
114.00	122.72	
114.00	122.04	
114.00	122.21	
114.00	121.58	
114.00	121.69	
114.00	121.29	
114.00	121.18	
114.00	120.69	
114.00	120.66	
114.00	120.36	
114.00	120.14	
114.00	119.89	
114.00	119.63	
114.00	119.41	
114.00	119.11	
114.00	118.77	
114.00	118.60	
114.00	118.12	
114.00	118.08	
114.00	117.22	
114.00	117.57	
114.00	116.76	
114.00	117.05	
114.00	116.40	
114.00	116.54	
114.00	115.27	
114.00	116.02	
114.00	114.56	
114.00	115.51	
114.00	113.59	
114.00	114.99	
114.00	112.49	
114.00	114.47	
114.00	112.89	

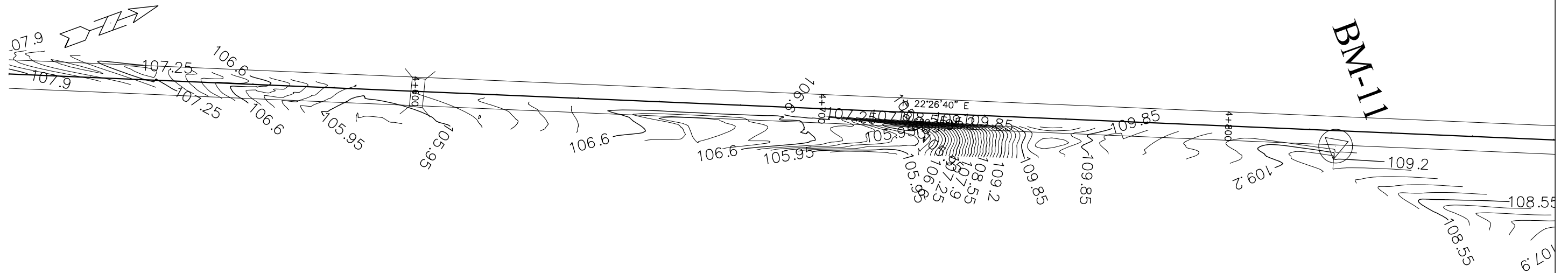
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
			MARIDI - MUDUBAI - ACCESS ROAD			14
			SHEET CONTENT:		DWG. Scale:	AS SHOWN
			PLAN AND PROFILE		DATE:	FEBRUARY 2023
STATION LIMITS			STA. 3+900 TO STA. 4+280			



SCALES:
 1M = 1000M HOR
 1M = 100M VER

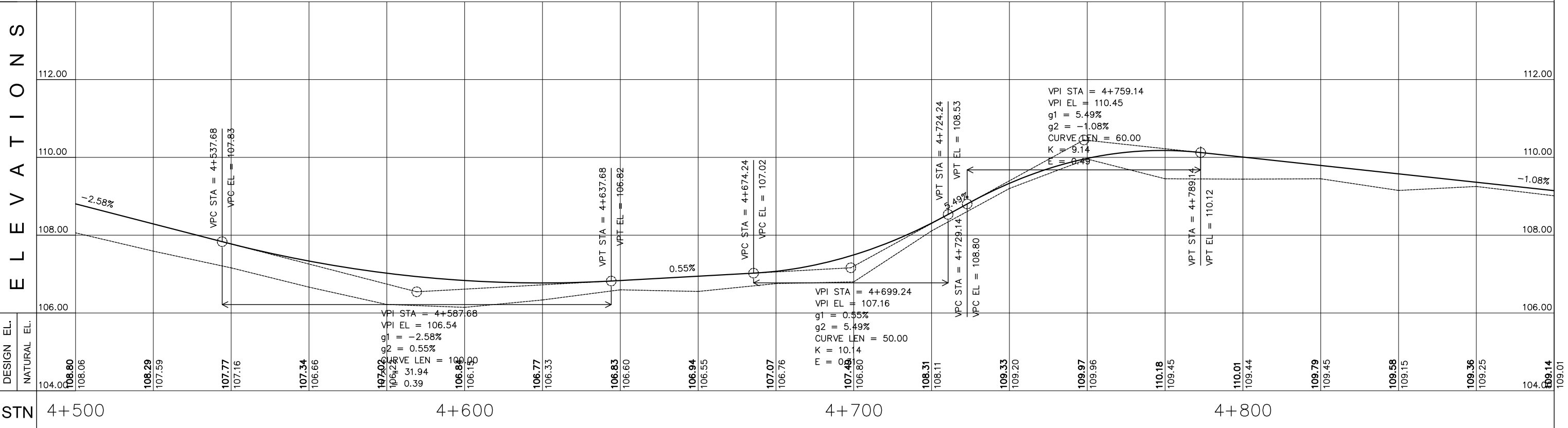




ACTED South Sudan Western Equatoria State The Republic of South Sudan	LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
			MARIDI - MUDUBAI - ACCESS ROAD SHEET CONTENT: PLAN AND PROFILE STATION LIMITS STA. 4+200 TO STA. 4+580			DWG. Scale: AS SHOWN DATE: FEBRUARY 2023

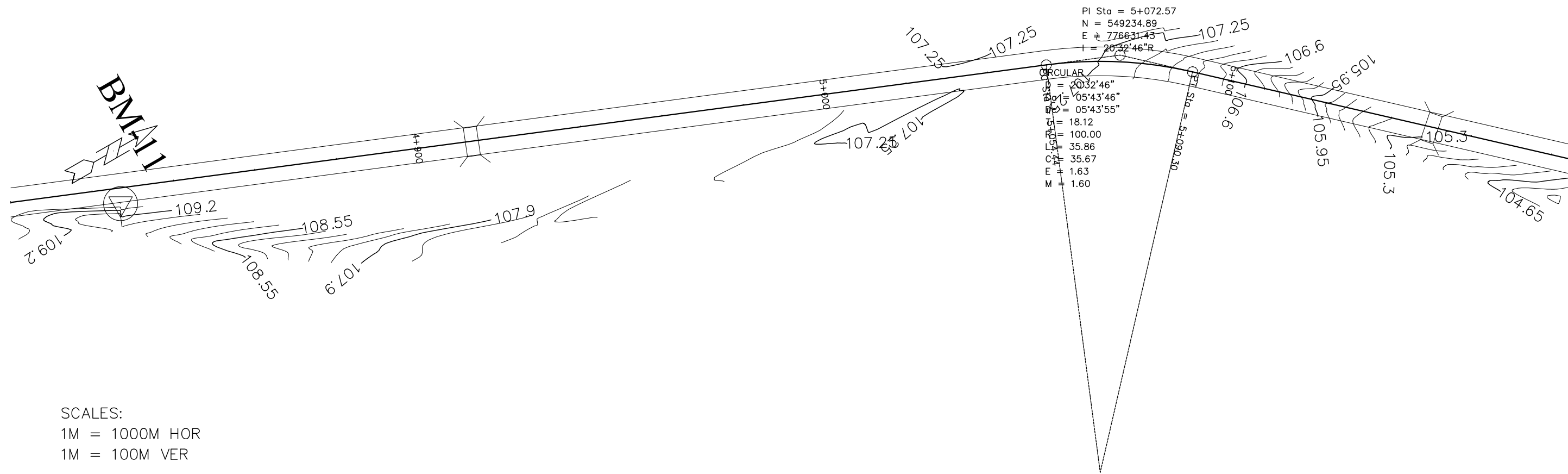


SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

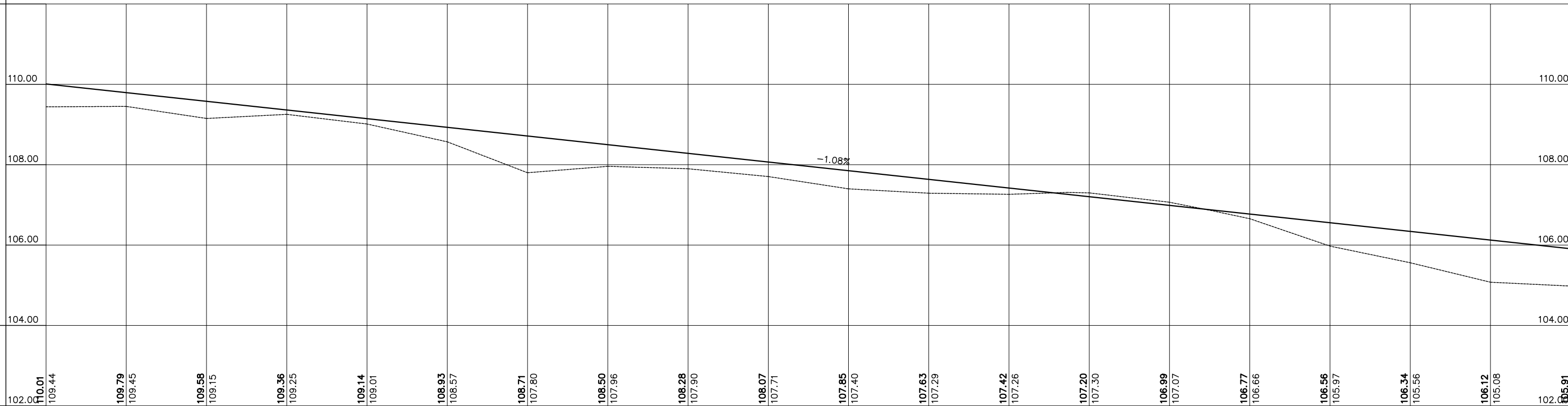


EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			16	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 4+500 TO STA. 4+880				



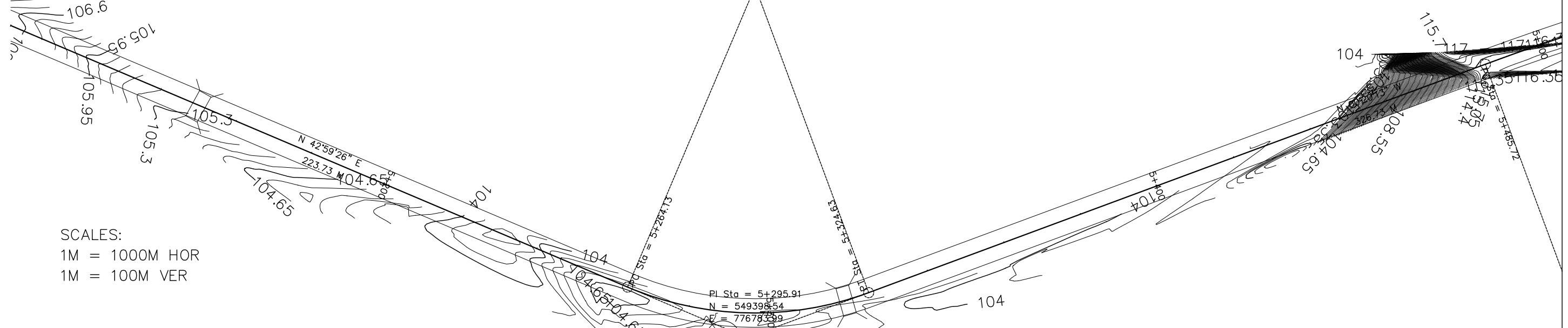
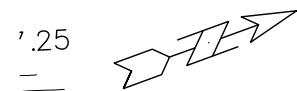
SCALES:
 1M = 1000M HOR
 1M = 100M VER

E L E V A T I O N S



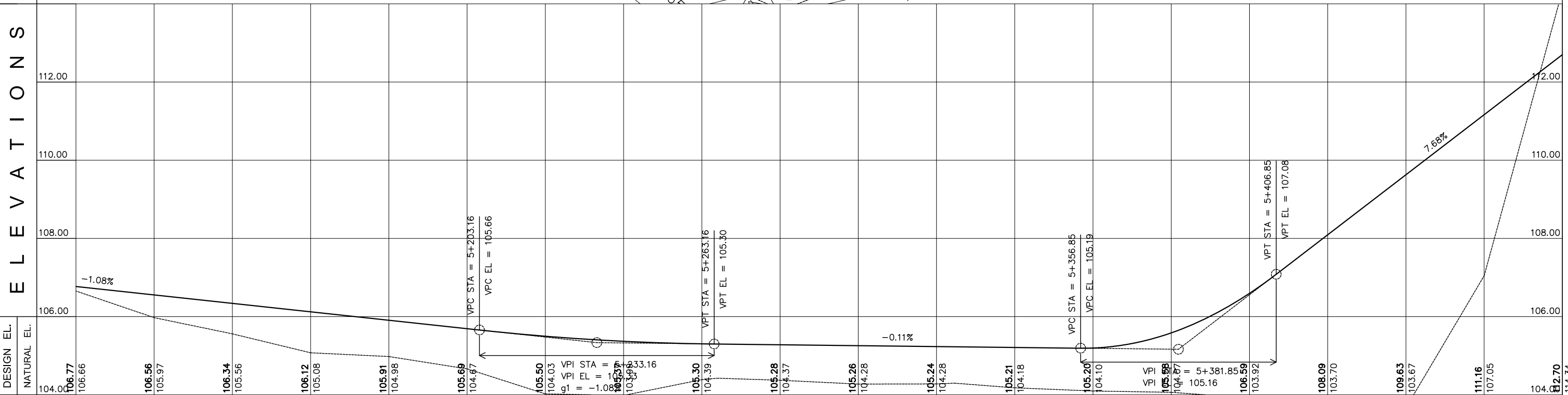
DESIGN EL.	NATURAL EL.	STN
102.00	102.00	4+800
109.01	109.44	
109.79	109.45	
109.58	109.15	
109.36	109.25	
109.14	109.01	
108.93	108.57	
108.71	107.80	
108.50	107.96	
108.28	107.90	
108.07	107.71	
107.85	107.40	
107.63	107.29	
107.42	107.26	
107.20	107.30	
106.99	107.07	
106.77	106.66	
106.56	105.97	
106.34	105.56	
106.12	105.08	
105.91	104.98	5+100

<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
			MARIDI - MUDUBAI - ACCESS ROAD			16
			SHEET CONTENT:		DWG. Scale:	AS SHOWN
			PLAN AND PROFILE		DATE:	FEBRUARY 2023
STATION LIMITS			STA. 4+800 TO STA. 5+180			



SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

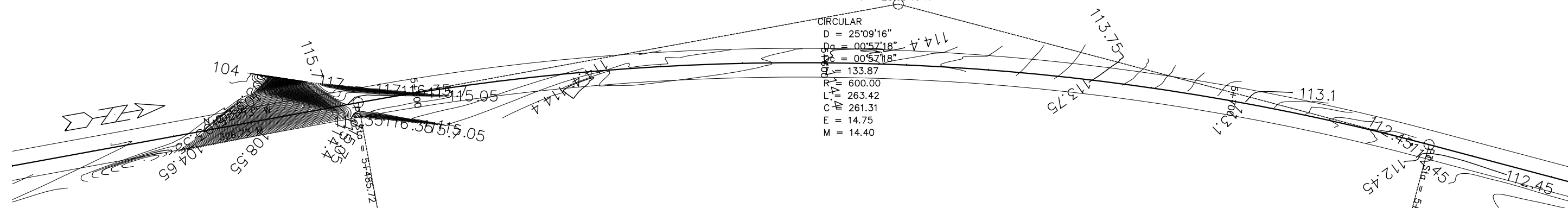


DESIGN EL.	NATURAL EL.	STN
106.77	106.66	5+100
106.56	105.97	
106.34	105.56	
106.12	105.08	
105.91	104.98	
105.69	104.67	5+200
105.50	104.03	
105.30	104.39	
105.28	104.37	5+300
105.26	104.28	
105.24	104.28	
105.21	104.18	
105.20	104.10	
105.16	104.07	
106.59	103.92	5+400
106.09	103.70	
109.63	103.67	
111.16	107.05	
114.34	104.70	5+480

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>		MARIDI - MUDUBAI - ACCESS ROAD			18	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			5+100 TO STA. 5+480				

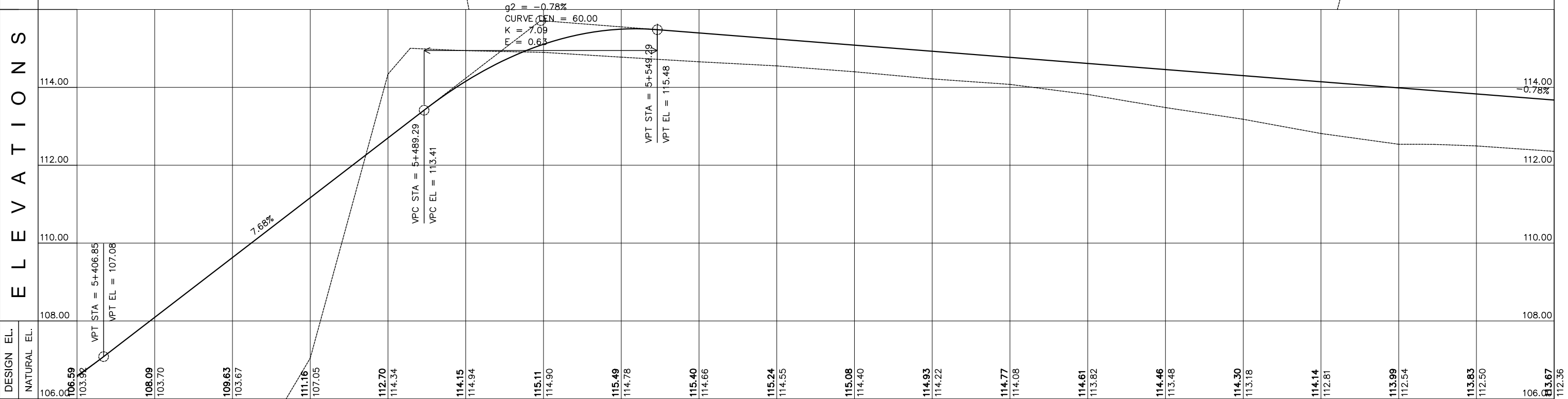
PI Sta = 5+619.59
 N = 549725.27
 E = 776782.07
 I = 25°09'16"R

CIRCULAR
 D = 25°09'16"
 Δ = 00°57'18"
 Δ = 00°57'18"
 P = 133.87
 L = 600.00
 T = 263.42
 C = 261.31
 E = 14.75
 M = 14.40



SCALES:
 1M = 1000M HOR
 1M = 100M VER

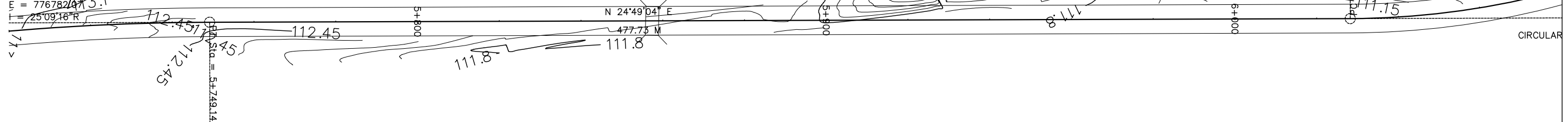
ELEVATIONS



DESIGN EL.	NATURAL EL.	STN
106.59	106.59	5+400
103.92	103.92	
108.09	103.70	5+500
109.63	103.67	
111.16	107.05	
112.70	114.34	
114.15	114.94	
115.11	114.90	
115.49	114.78	5+600
115.40	114.66	
115.24	114.55	
115.08	114.40	
114.93	114.22	
114.77	114.08	
114.61	113.82	
114.46	113.48	
114.30	113.18	5+700
114.14	112.81	
113.99	112.54	
113.83	112.50	
106.67	112.36	5+780

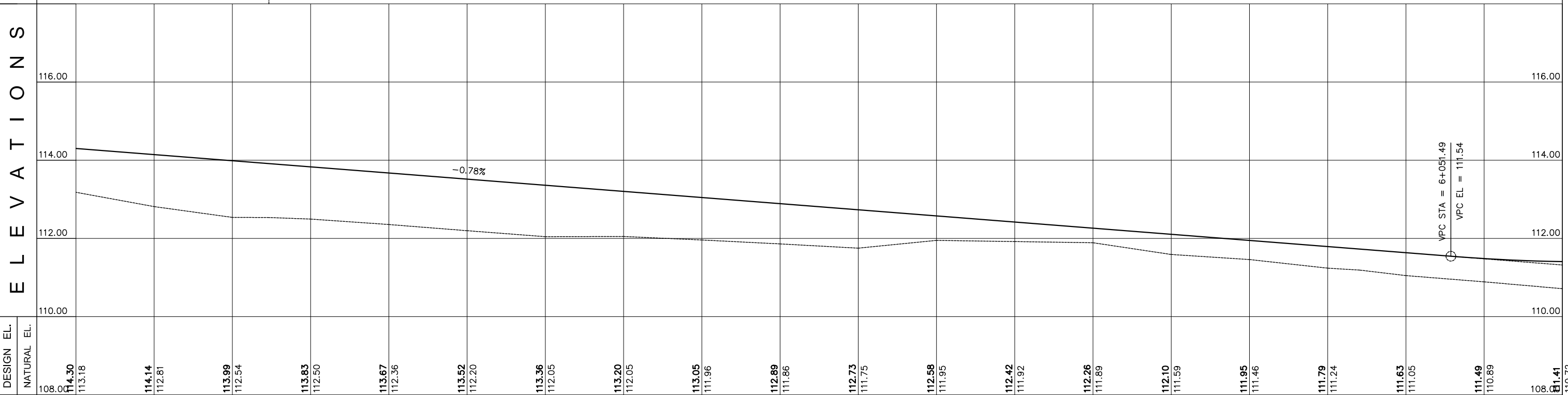
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>		MARIDI - MUDUBAI - ACCESS ROAD			19	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 5+400 TO STA. 5+780				

PI Sta = 5+619.59
 N = 549725.27
 E = 776782.13
 T = 25°09'16"R
 13.1



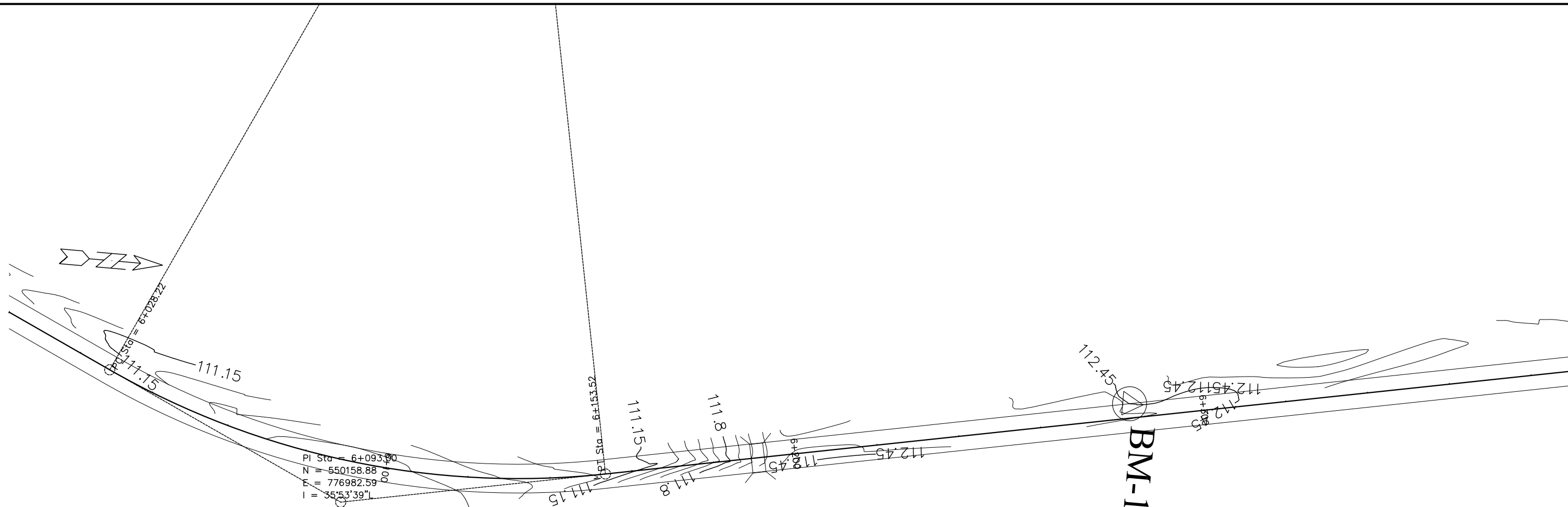
SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



STN	5+700	5+800	5+900	6+000
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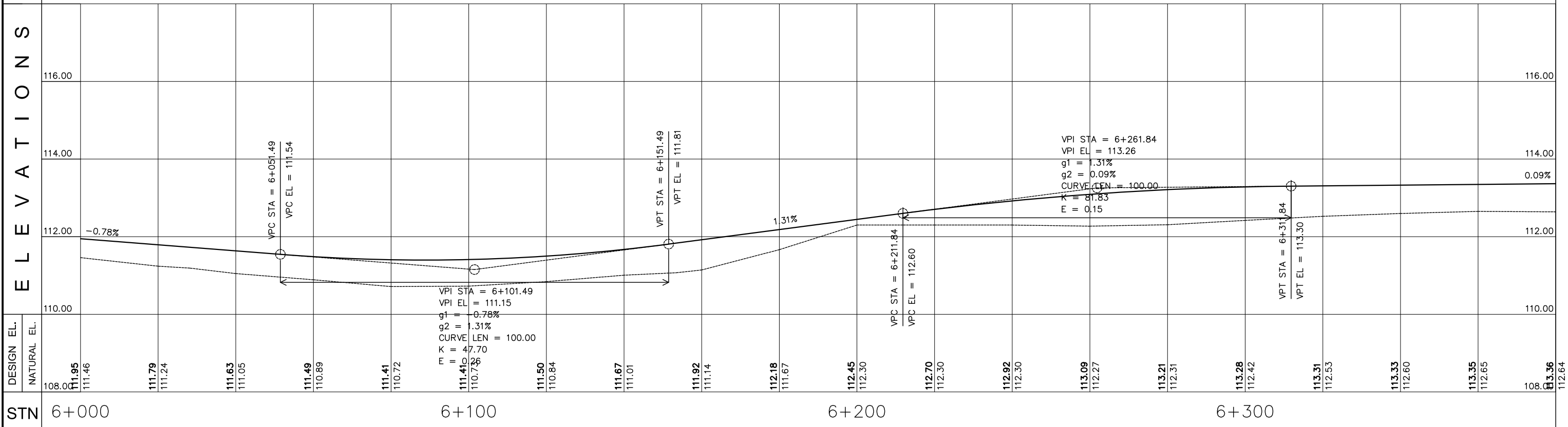
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
ACTED South Sudan Western Equatoria State The Republic of South Sudan	LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			20	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 5+700 TO STA. 6+080				





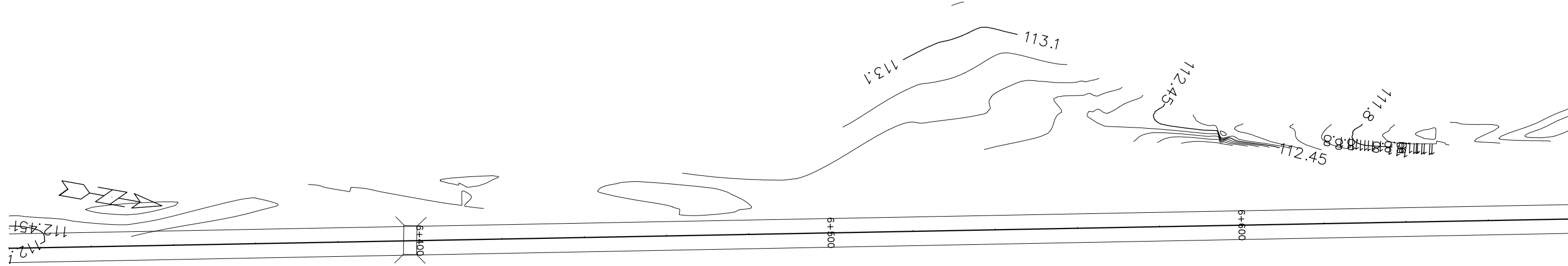
SCALES:
 1M = 1000M HOR
 1M = 100M VER

CIRCULAR
 D = 35°53'39"
 Da = 02°51'53"
 Dc = 02°51'54"
 T = 64.78
 R = 200.00
 L = 125.29
 C = 123.26

ELEVATIONS

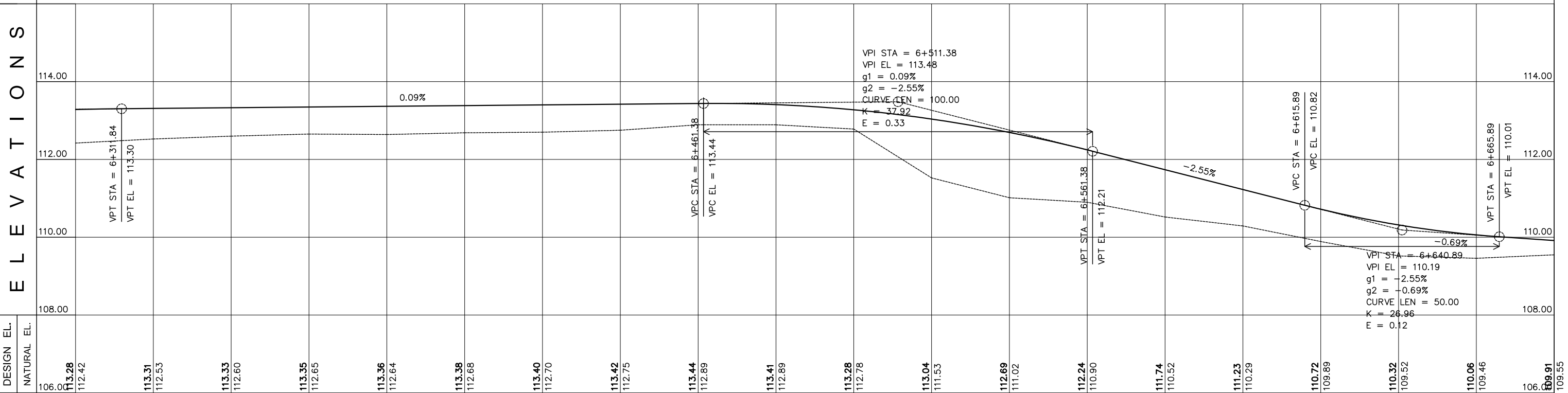


DESIGN EL.	NATURAL EL.	STN	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
108.00	111.95	6+000	 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	MARIDI - MUDUBAI - ACCESS ROAD SHEET CONTENT: PLAN AND PROFILE STATION LIMITS STA. 6+000 TO STA. 6+380			21
111.46	111.79	6+010						
111.24	111.63	6+020						
111.05	111.49	6+030						
111.89	111.41	6+040						
110.72	111.41	6+050						
110.72	111.41	6+060						
110.72	111.41	6+070						
110.84	111.50	6+080						
111.01	111.67	6+090						
111.14	111.92	6+100						
111.67	112.18	6+110						
112.30	112.45	6+120						
112.30	112.70	6+130						
112.30	112.92	6+140						
112.27	113.09	6+150						
112.31	113.21	6+160						
112.42	113.28	6+170						
112.53	113.31	6+180						
112.60	113.33	6+190						
112.65	113.35	6+200						
108.00	113.36	6+210						
112.64	113.36	6+220						
							DWG. Scale:	AS SHOWN
							DATE:	FEBRUARY 2023





SCALES:
 1M = 1000M HOR
 1M = 100M VER

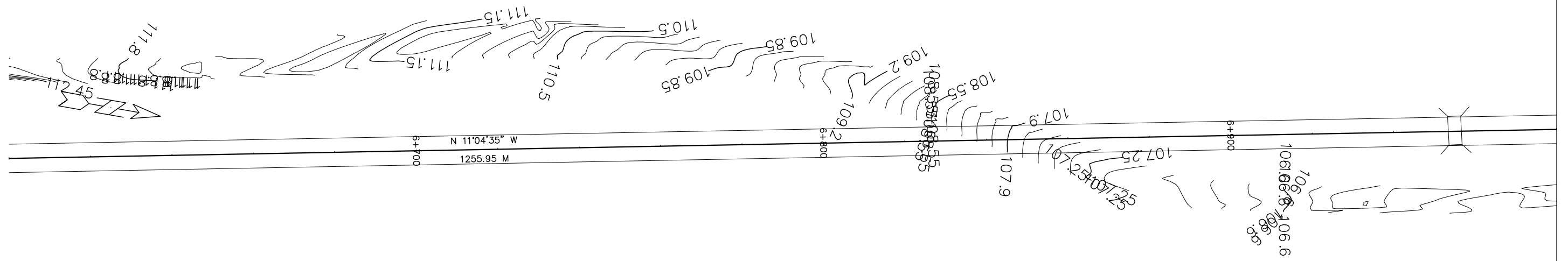
E L E V A T I O N S



DESIGN EL.	114.00	112.00	110.00	108.00
NATURAL EL.	106.00	112.42	113.31	112.53
	113.33	112.60	113.35	112.65
	113.36	112.64	113.38	112.68
	113.40	112.70	113.42	112.75
	113.44	112.89	113.41	112.89
	113.28	112.78	113.04	111.53
	112.69	111.02	112.24	110.90
	111.74	110.52	111.23	110.29
	110.72	109.89	110.32	109.52
	110.06	109.46	110.06	109.46
	106.00	109.91	109.91	109.55

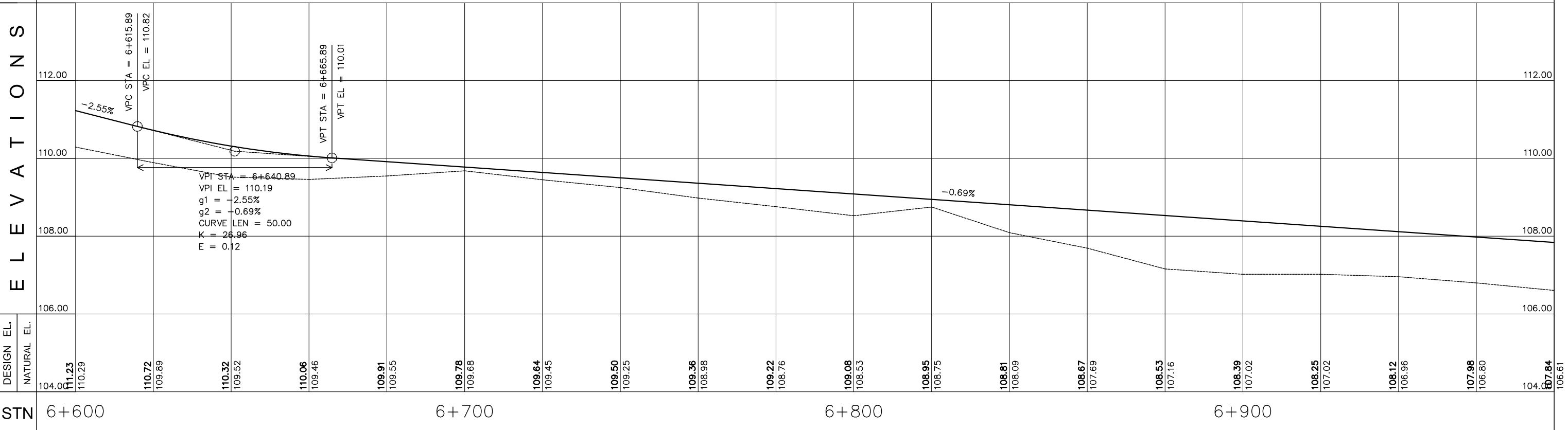
STN	6+300	6+400	6+500	6+600
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EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING	Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	MARIDI - MUDUBAI - ACCESS ROAD			22	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023

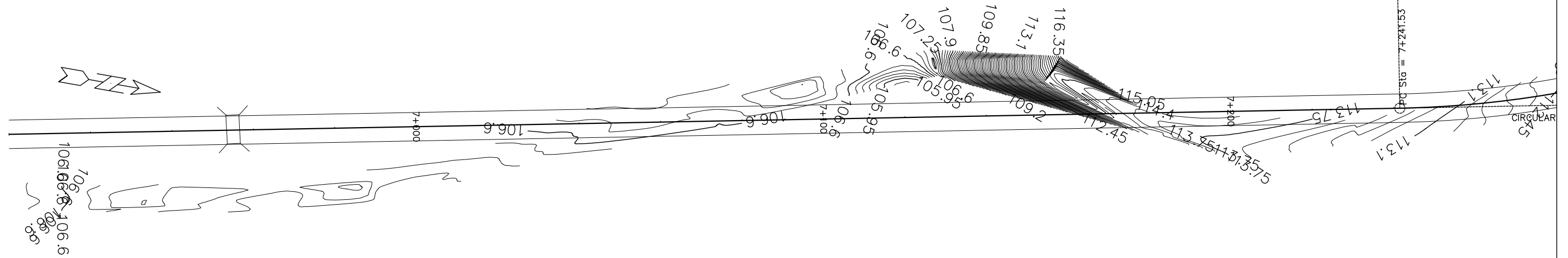


SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS

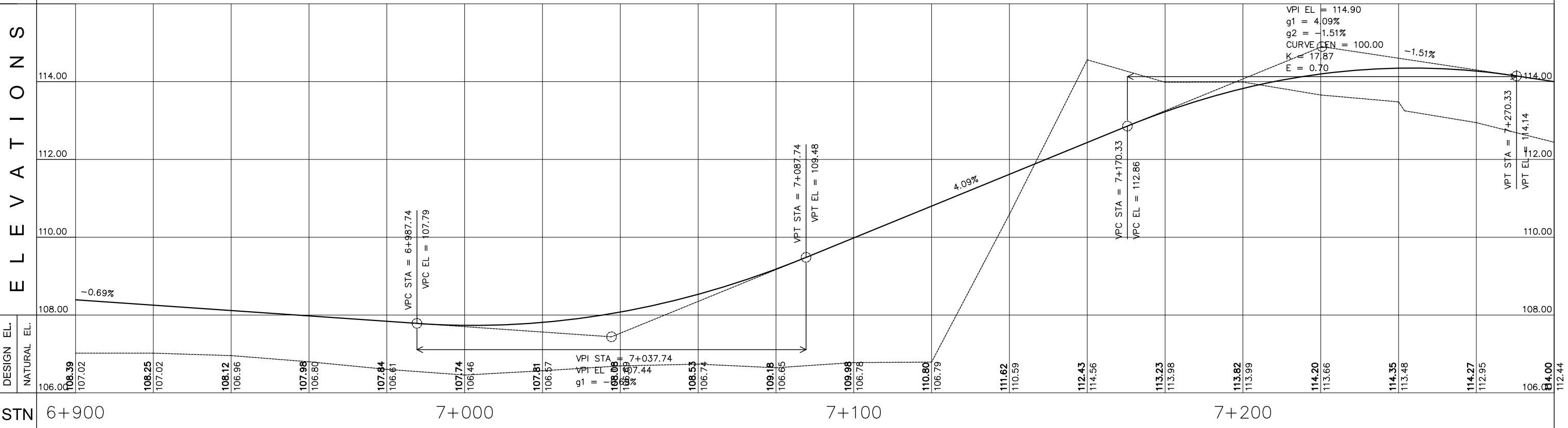


<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
			MARIDI - MUDUBAI - ACCESS ROAD			23
			SHEET CONTENT:		DWG. Scale:	AS SHOWN
			PLAN AND PROFILE		DATE:	FEBRUARY 2023
STATION LIMITS			STA. 6+600 TO STA. 6+980			



SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



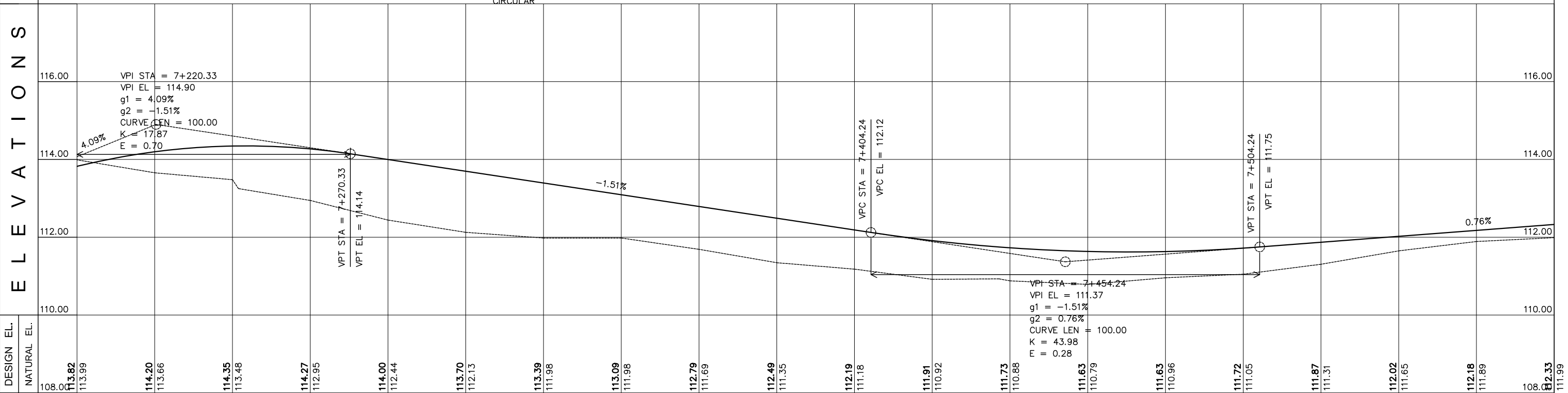
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>		MARIDI - MUDUBAI - ACCESS ROAD			24	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS:			DATE:	FEBRUARY 2023





SCALES:
 1M = 1000M HOR
 1M = 100M VER

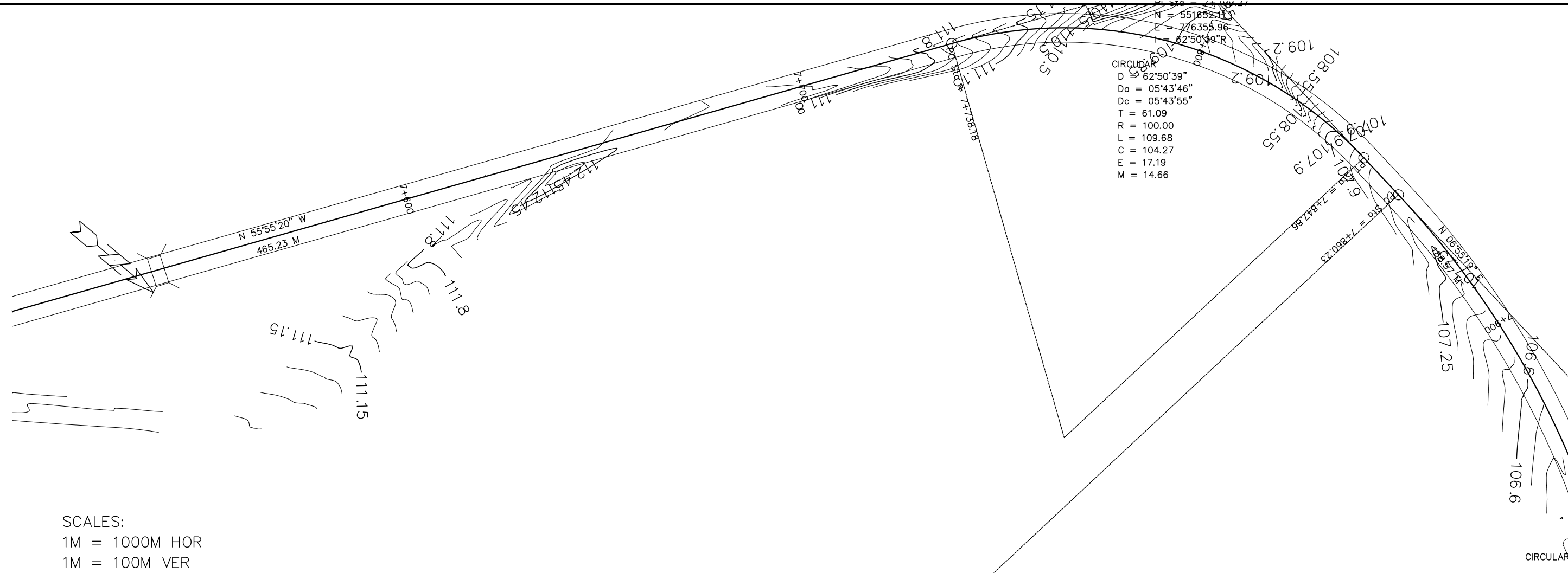
PI Sta = 7+344.69
 N = 551391.43
 E = 776741.30
 I = 44°50'44\"/>

E L E V A T I O N S



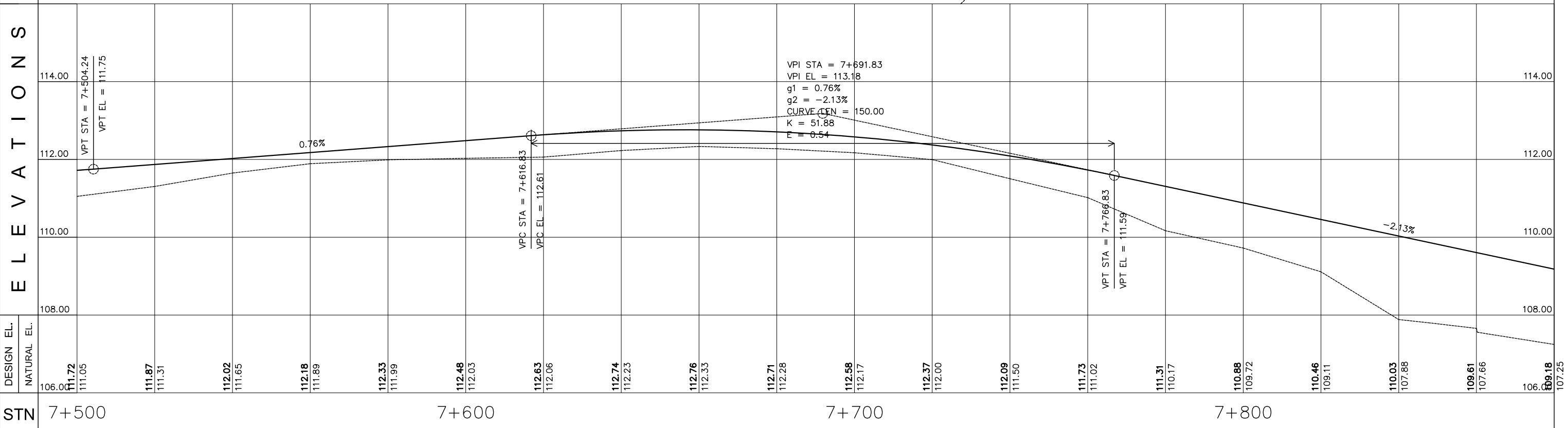
DESIGN EL.	NATURAL EL.	STN
108.00	108.00	7+200
113.82	113.99	
114.20	113.66	
114.35	113.48	
114.27	112.95	
114.00	112.44	
113.70	112.13	
113.39	111.98	
113.09	111.98	
112.79	111.69	
112.49	111.35	
112.19	111.18	
111.91	110.92	
111.73	110.88	
111.63	110.79	
111.63	110.96	
111.72	111.05	
111.87	111.31	
112.02	111.65	
112.18	111.89	
108.00	108.00	7+580

 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	APPROVED BY:	PROJECT TITLE: MARIDI - MUDUBAI - ACCESS ROAD	REVISIONS:	CAD/DRAWN BY:	SHEET NO. 25
			SHEET CONTENT: PLAN AND PROFILE	DWG. Scale: AS SHOWN	DATE: FEBRUARY 2023	
STATION LIMITS: STA. 7+200 TO STA. 7+580						



SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



DESIGN EL.	NATURAL EL.	STN
106.00	111.72	7+500
106.00	111.05	
106.00	111.87	
106.00	111.31	
106.00	112.02	
106.00	111.65	
106.00	112.18	
106.00	111.89	
106.00	112.33	
106.00	111.99	
106.00	112.48	
106.00	112.03	
106.00	112.63	
106.00	112.06	
106.00	112.74	
106.00	112.23	
106.00	112.76	
106.00	112.33	
106.00	112.71	
106.00	112.28	
106.00	112.58	
106.00	112.17	
106.00	112.37	
106.00	112.00	
106.00	112.09	
106.00	111.50	
106.00	111.73	
106.00	111.02	
106.00	111.31	
106.00	110.17	
106.00	110.88	
106.00	109.72	
106.00	110.46	
106.00	109.11	
106.00	110.03	
106.00	107.88	
106.00	109.61	
106.00	107.66	
106.00	109.18	
106.00	107.25	

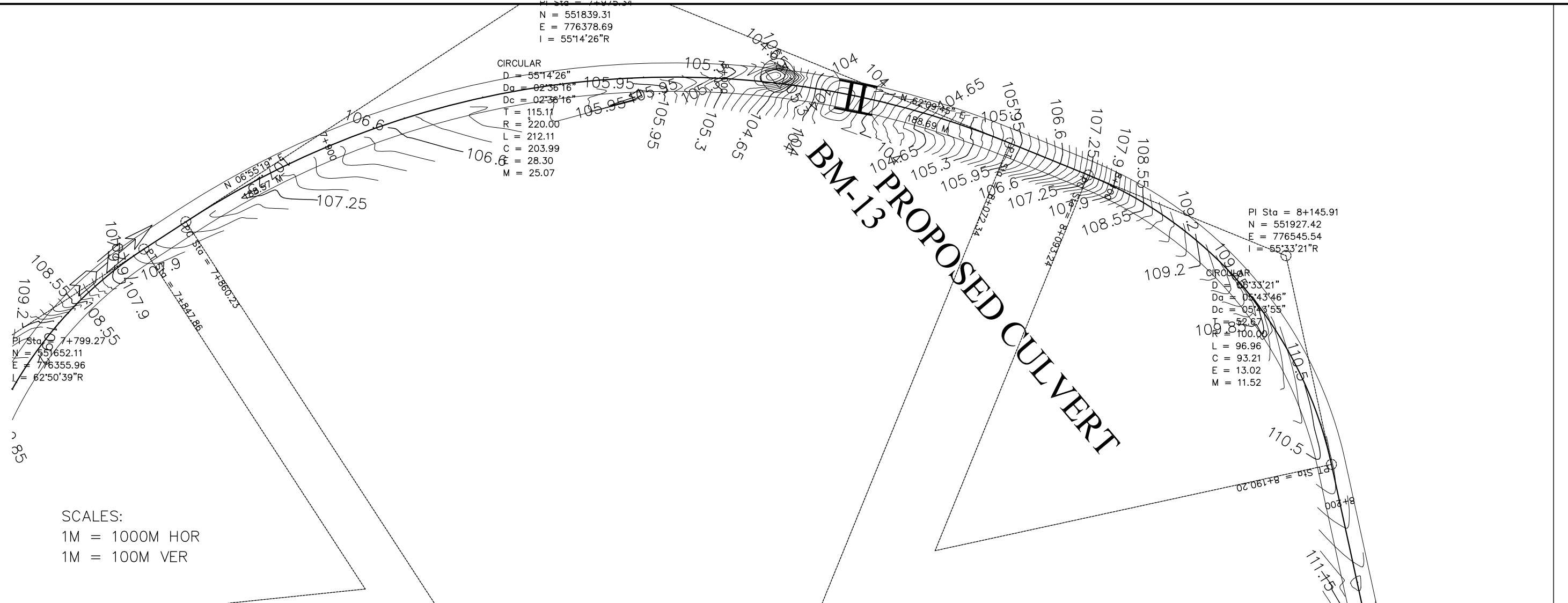
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>	Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	PROJECT TITLE: MARIDI - MUDUBAI - ACCESS ROAD	REVISIONS:	CAD/DRAWN BY:	SHEET NO. 26
			SHEET CONTENT: PLAN AND PROFILE	DWG. Scale: AS SHOWN	DATE: FEBRUARY 2023	
STATION LIMITS: STA. 7+500 TO STA. 7+880						

PI Sta = 7+115.24
 N = 551839.31
 E = 776378.69
 I = 55°14'26"R

CIRCULAR
 D = 55°14'26"
 Da = 02°36'16"
 Dc = 02°36'16"
 T = 115.17
 R = 220.00
 L = 212.11
 C = 203.99
 E = 28.30
 M = 25.07

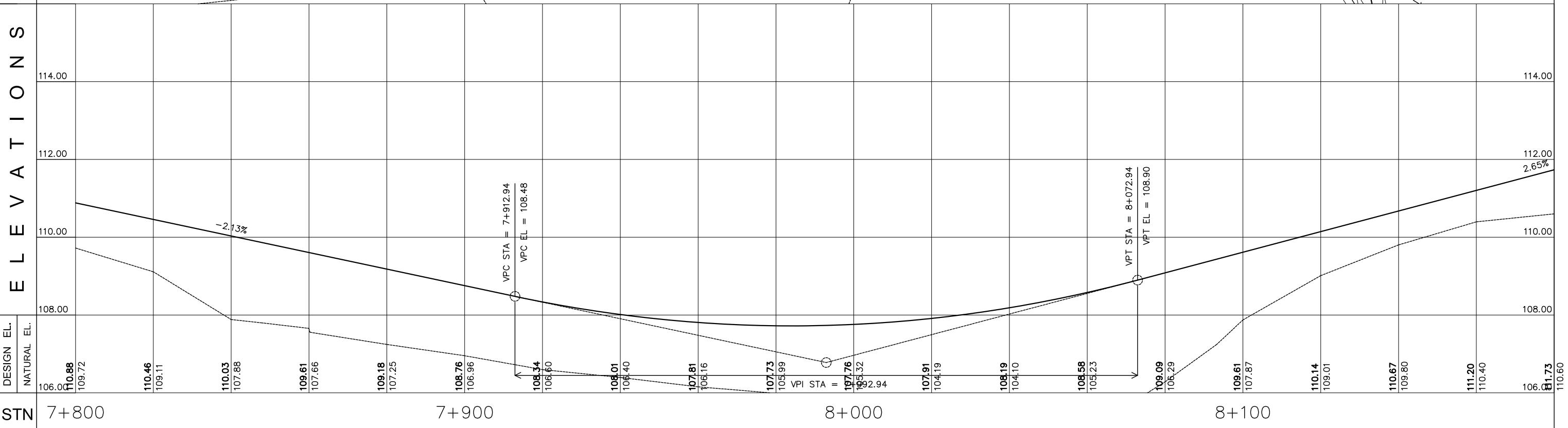
PI Sta = 8+145.91
 N = 551927.42
 E = 776545.54
 I = 55°33'21"R



CIRCULAR
 D = 58°33'21"
 Da = 05°43'46"
 Dc = 05°43'55"
 T = 52.57
 R = 100.00
 L = 96.96
 C = 93.21
 E = 13.02
 M = 11.52



SCALES:
 1M = 1000M HOR
 1M = 100M VER

ELEVATIONS



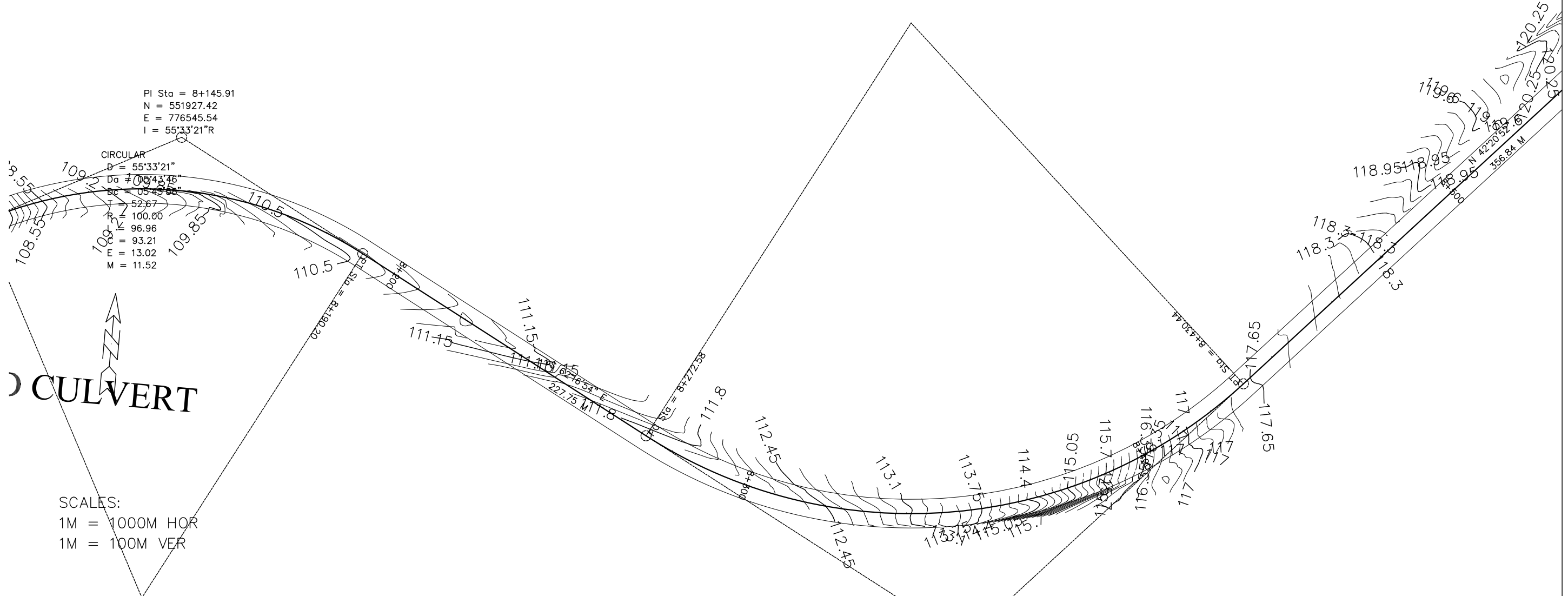
EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			27	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 7+800 TO STA. 8+180				

PI Sta = 8+145.91
 N = 551927.42
 E = 776545.54
 I = 55°33'21"R

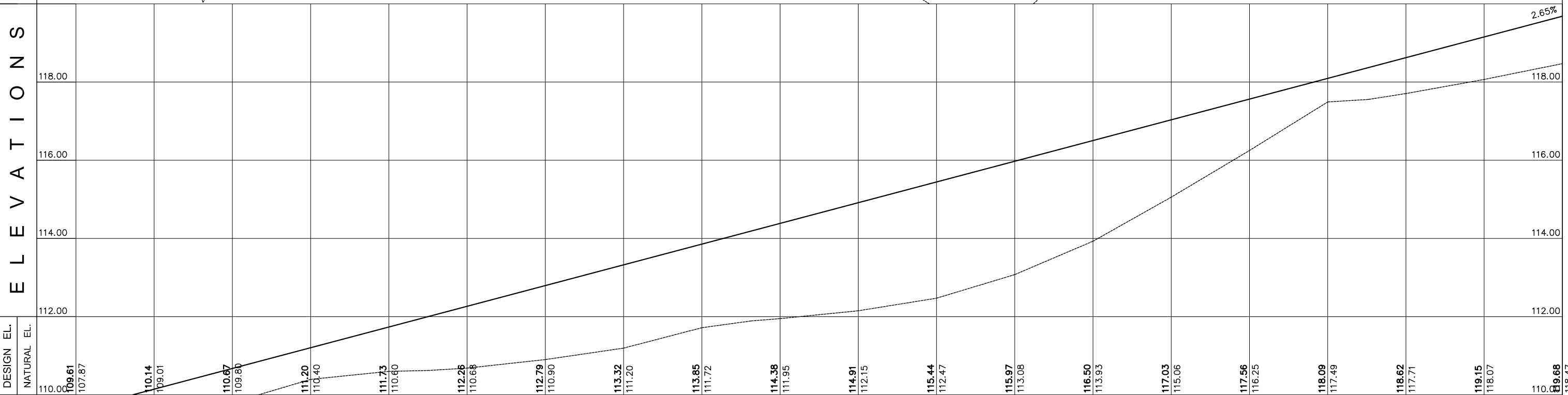
CIRCULAR
 D = 55°33'21"
 Da = 004346"
 Dc = 054955"
 T = 52.67
 R = 100.00
 L = 96.96
 E = 93.21
 E = 13.02
 M = 11.52

CULVERT

SCALES:
 1M = 1000M HOR
 1M = 100M VER





ELEVATIONS

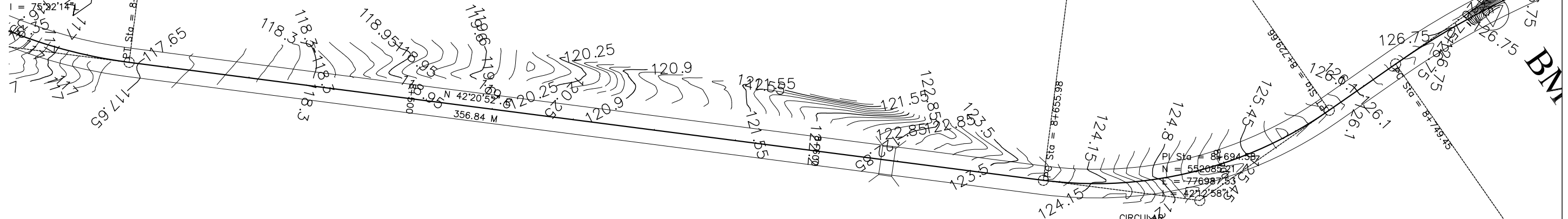


DESIGN EL.	110.00	109.61	107.87	110.14	109.01	110.67	109.80	111.20	110.40	111.73	110.60	112.26	110.68	112.79	110.90	113.32	111.20	113.85	111.72	114.38	111.95	114.91	112.15	115.44	112.47	115.97	113.08	116.50	113.93	117.03	115.06	117.56	116.25	118.09	117.49	118.62	117.71	119.15	118.07	119.68
NATURAL EL.	110.00	109.61	107.87	110.14	109.01	110.67	109.80	111.20	110.40	111.73	110.60	112.26	110.68	112.79	110.90	113.32	111.20	113.85	111.72	114.38	111.95	114.91	112.15	115.44	112.47	115.97	113.08	116.50	113.93	117.03	115.06	117.56	116.25	118.09	117.49	118.62	117.71	119.15	118.07	119.68

STN 8+100 8+200 8+300 8+400

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING	Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan	MARIDI - MUDUBAI - ACCESS ROAD			28
			SHEET CONTENT:	DWG. Scale:		AS SHOWN
			STATION LIMITS	DATE:		FEBRUARY 2023
			STA. 8+100 TO STA. 8+480			

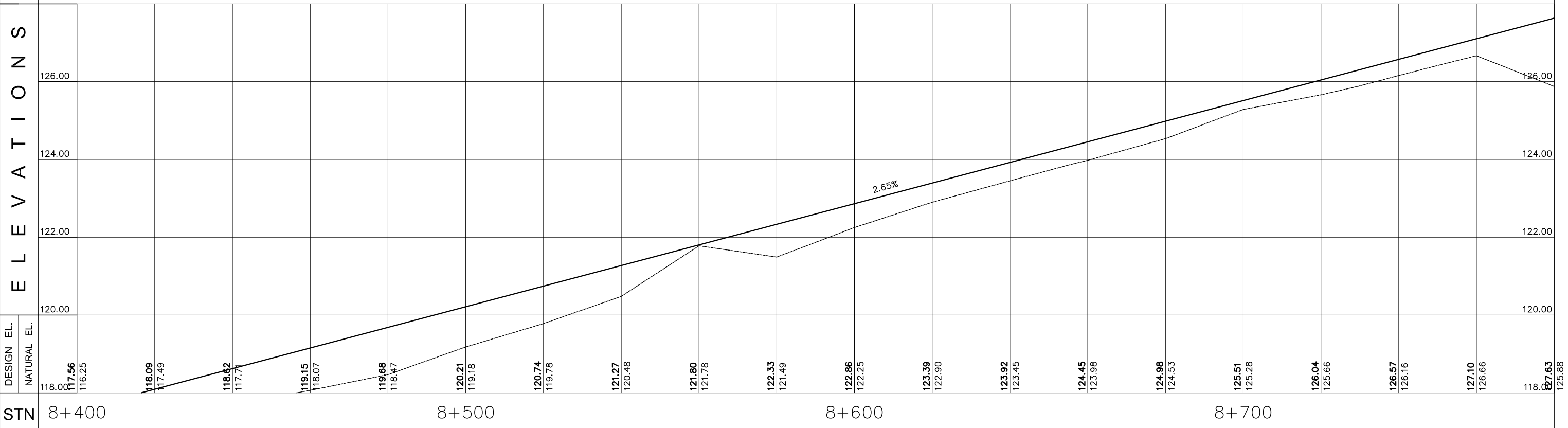
PI Sta = 8+365.28
 N = 551821.48
 E = 776747.15
 I = 75°32'14"





SCALES:
 1M = 1000M HOR
 1M = 100M VER

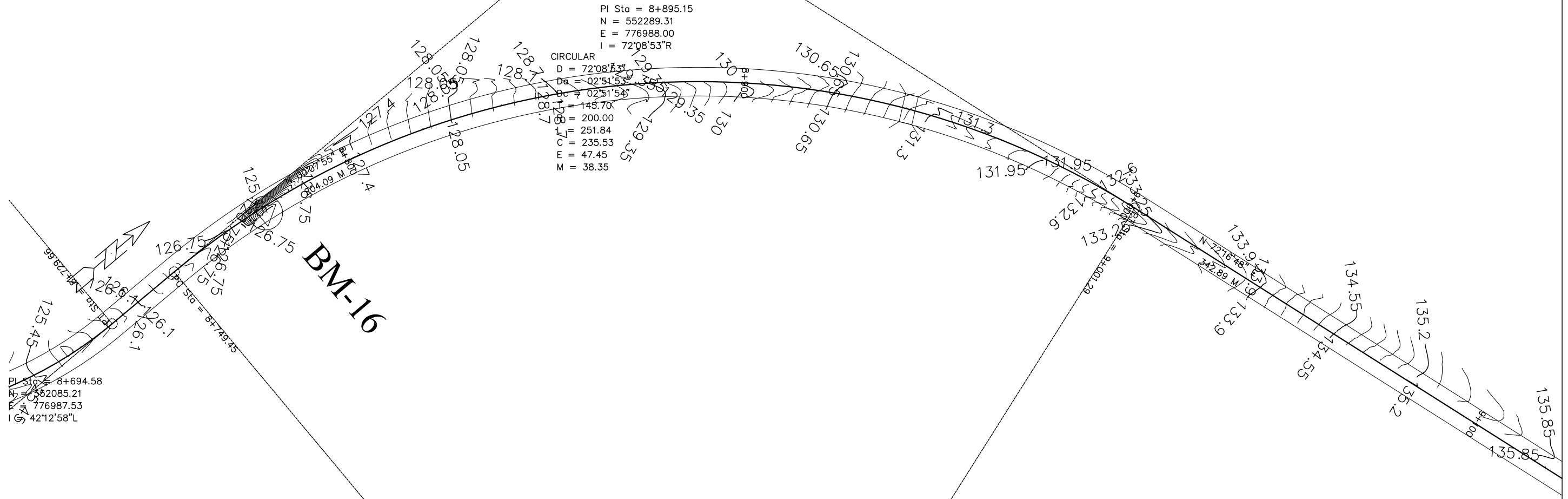
CIRCULAR
 D = 421.258"
 Da = 05°43'46"
 Dc = 05°43'55"
 T = 38.60
 R = 100.00
 L = 73.68
 C = 72.03
 E = 7.19
 M = 6.71

ELEVATIONS



DESIGN EL.	NATURAL EL.	STN
118.00	117.56	8+400
118.09	117.49	
118.62	117.7	
119.15	118.07	
119.68	118.47	
120.21	119.18	
120.74	119.78	
121.27	120.48	
121.80	121.78	
122.33	121.49	
122.86	122.25	
123.39	122.90	
123.92	123.45	
124.45	123.98	
124.98	124.53	
125.51	125.28	
126.04	125.66	
126.57	126.16	
127.10	126.66	
127.63	127.16	8+780

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan		MARIDI - MUDUBAI - ACCESS ROAD			29	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 8+400 TO STA. 8+780				



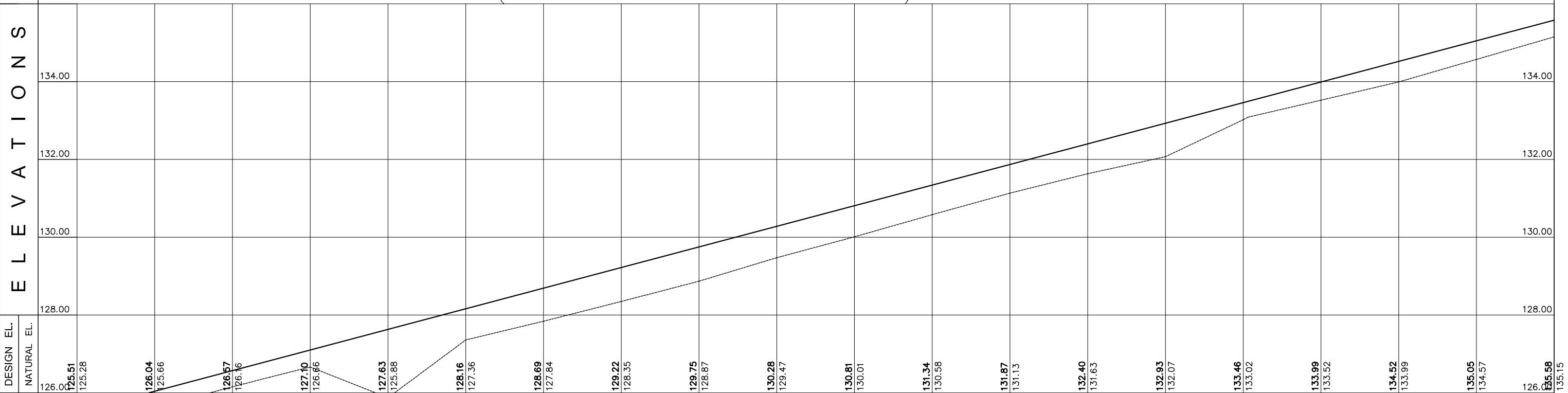
PI Sta = 8+895.15
 N = 552289.31
 E = 776988.00
 I = 72°08'53"R

CIRCULAR
 D = 72.0875m
 Da = 02°51'54"
 P = 02°51'54"
 L = 145.70m
 R = 200.00m
 T = 251.84m
 E = 235.53m
 M = 47.45m
 S = 38.35m



PI Sta = 8+694.58
 N = 552085.21
 E = 776987.53
 I = 42°12'58"L

SCALES:
 1M = 1000M HOR
 1M = 100M VER

E L E V A T I O N S

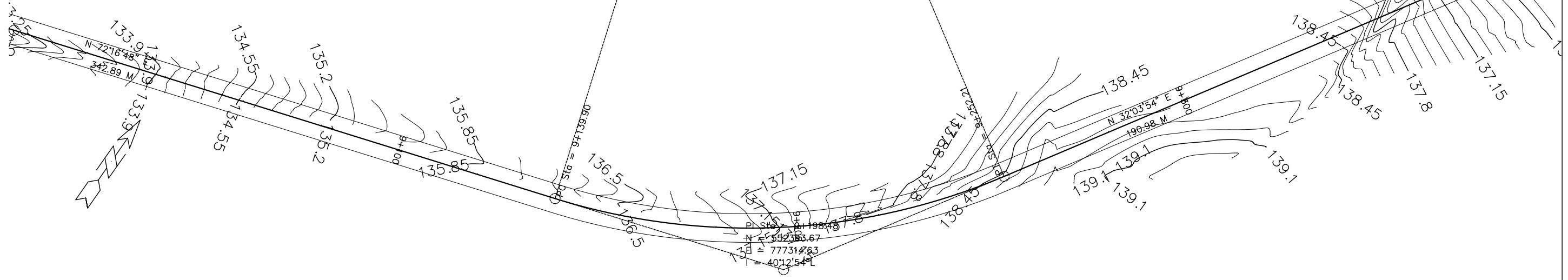


STN 8+700 8+800 8+900 9+000

EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.
 ACTED South Sudan Western Equatoria State The Republic of South Sudan	 LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING		MARIDI - MUDUBAI - ACCESS ROAD			30
			SHEET CONTENT:			
			PLAN AND PROFILE			
			STATION LIMITS			
			STA. 8+700 TO STA. 9+080		DWG. Scale:	AS SHOWN
					DATE:	FEBRUARY 2023

PI Sta = 8+895.15
 N = 552289.31
 E = 776988.00
 I = 72°08'53"R

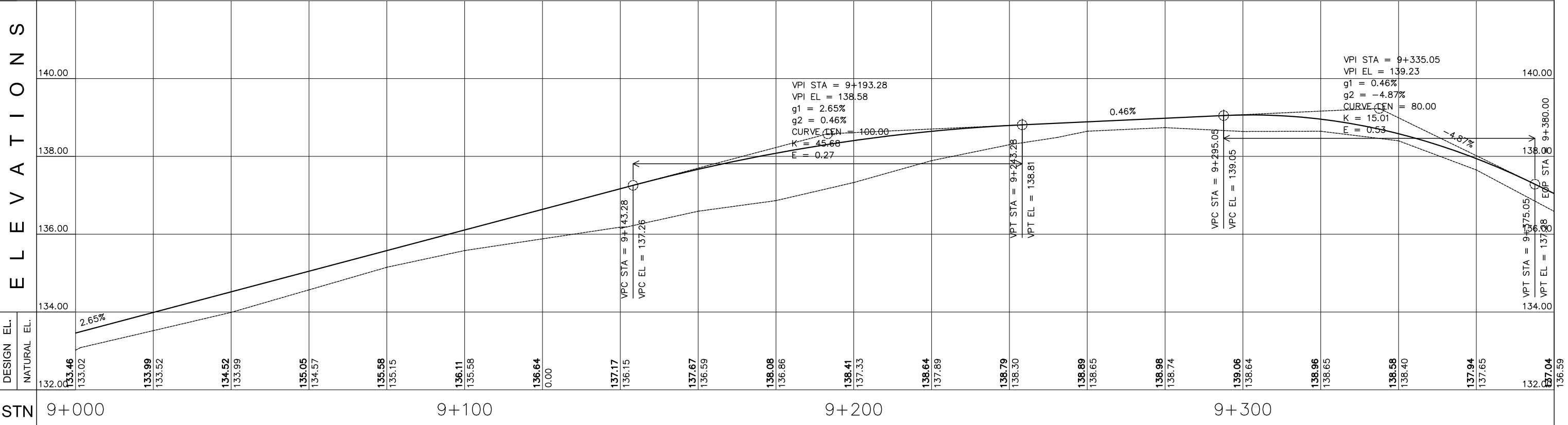
EOP = 9+384.61
 N = 552555.52
 E = 777416.01



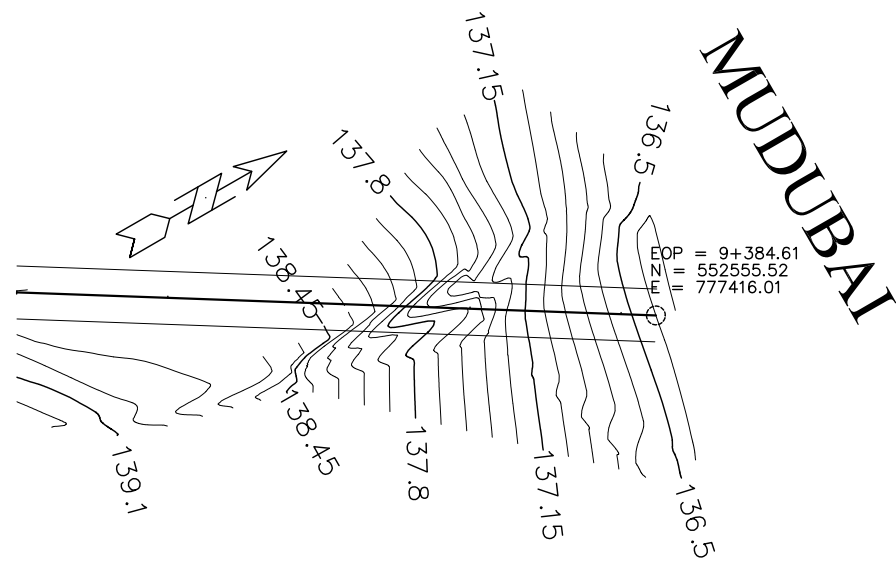
SCALES:
 1M = 1000M HOR
 1M = 100M VER

CIRCULAR
 D = 40'12'54"
 Da = 03'34'52"
 Dc = 03'34'54"
 T = 58.58
 R = 160.00
 L = 112.30
 C = 110.01
 E = 10.39
 M = 9.75

ELEVATIONS

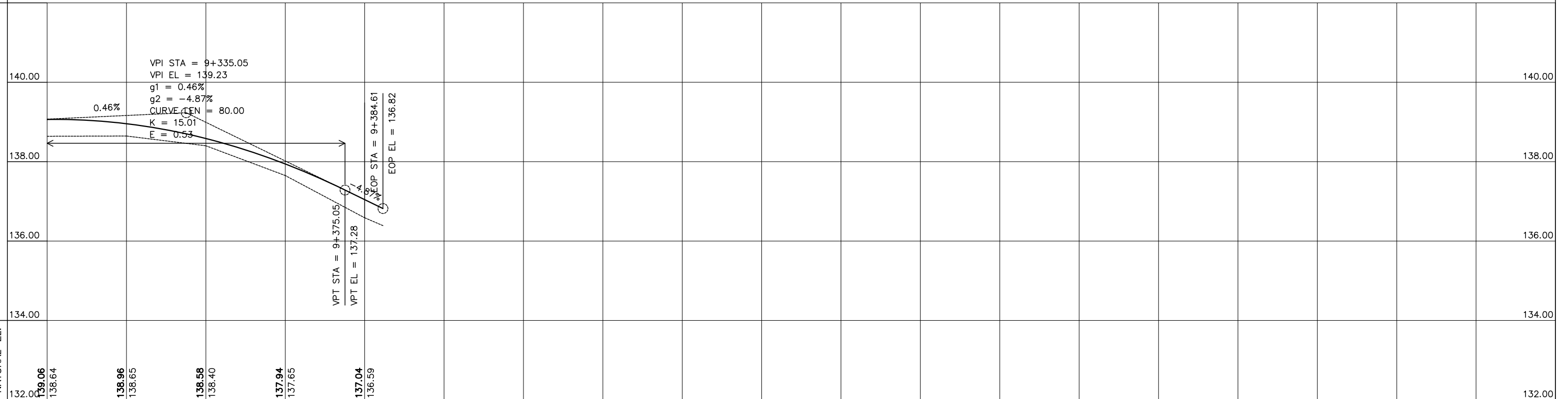


EMPLOYER:	DESIGNED/PREPARED BY:	APPROVED BY:	PROJECT TITLE:	REVISIONS:	CAD/DRAWN BY:	SHEET NO.	
<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p>	<p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	MARIDI - MUDUBAI - ACCESS ROAD			31	
			SHEET CONTENT:			DWG. Scale:	AS SHOWN
			STATION LIMITS			DATE:	FEBRUARY 2023
			STA. 9+000 TO STA. 9+380				



SCALES:
 1M = 1000M HOR
 1M = 100M VER

E L E V A T I O N S



STN	9+300	9+400	9+500	9+600
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<p>ACTED South Sudan Western Equatoria State The Republic of South Sudan</p>	<p>LADDER CONSULTANCY CONSTRUCTION IT SOLUTIONS GENERAL TRADING</p> <p>Tel: +211920105359 Email: ladderedi@gmail.com Juba, The Republic of South Sudan</p>	<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p> <p>MARIDI - MUDUBAI - ACCESS ROAD</p>	<p>REVISIONS:</p>	<p>CAD/DRAWN BY:</p>	<p>SHEET NO.</p> <p>32</p>
			<p>SHEET CONTENT:</p> <p>PLAN AND PROFILE</p> <p>STATION LIMITS</p> <p>STA. 9+300 TO STA. 9+384.61 (EOP)</p>	<p>DWG. Scale:</p> <p>AS SHOWN</p>	<p>DATE:</p> <p>FEBRUARY 2023</p>	