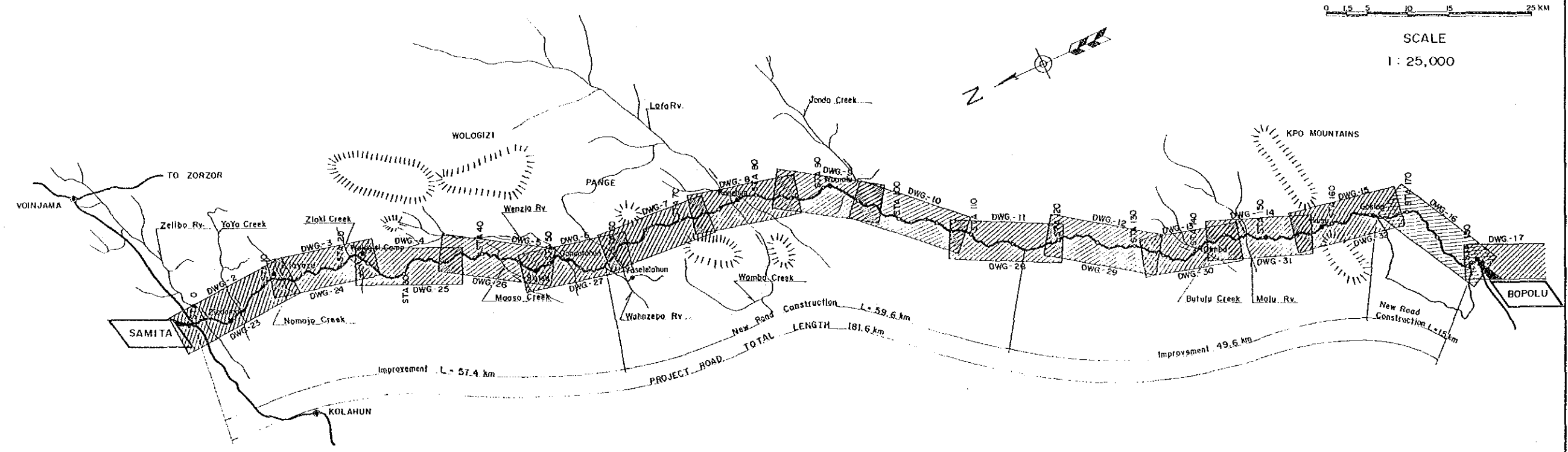
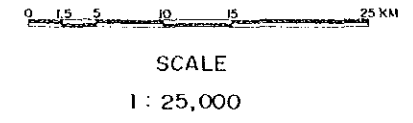


ANNEX-II

DRAWINGS

Drawings

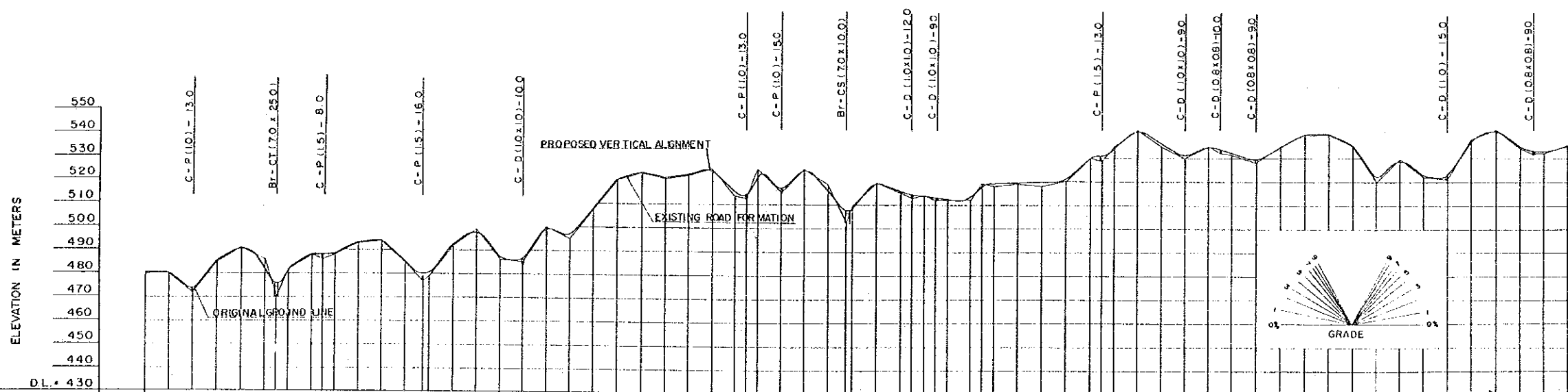
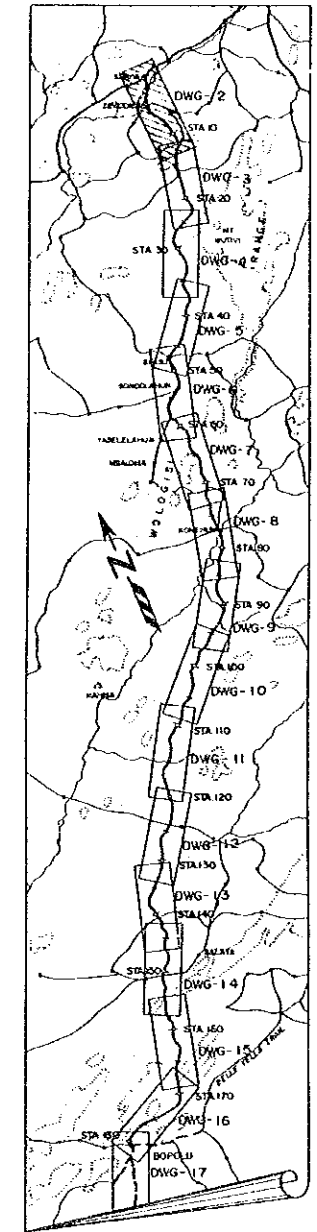
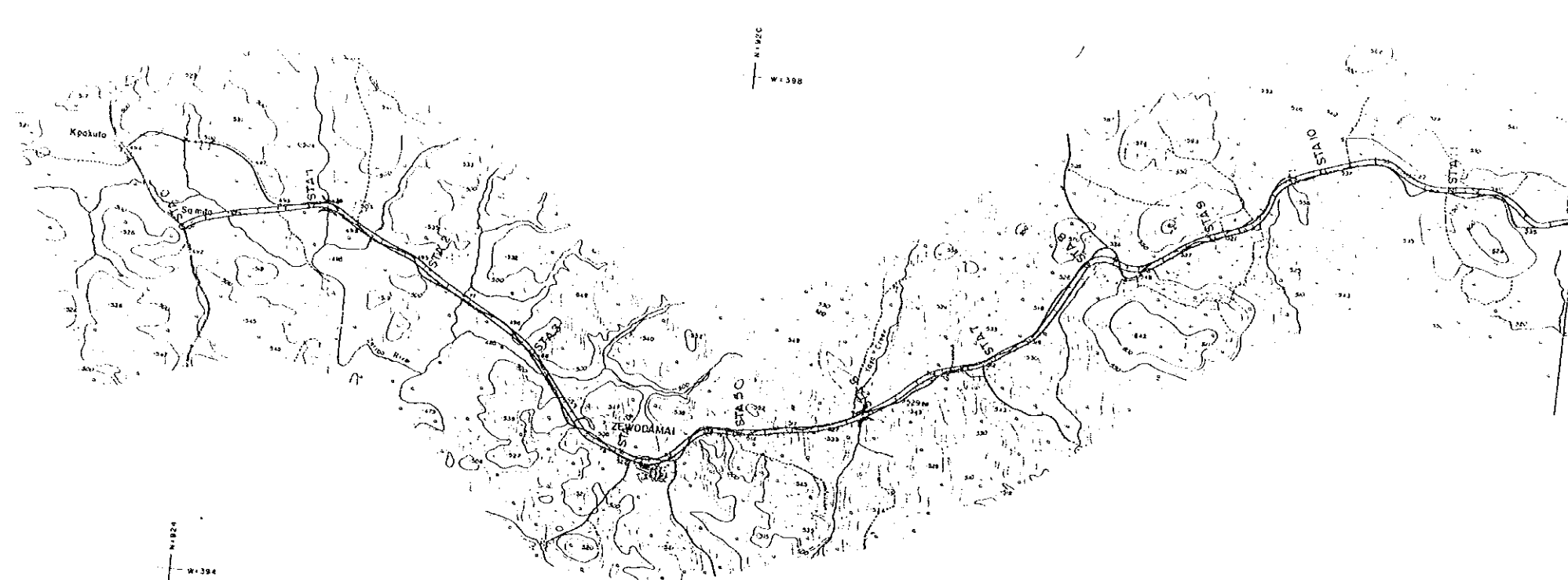
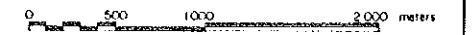
DWG— 1	General key plan
DWG—2/17	Plan & profile
DWG—18	Typical cross section
DWG—19	Pipe culvert & cross dith
DWG—20	Box culvert
DWG—21	Standard bridge
DWG—22	Lofa river bridge



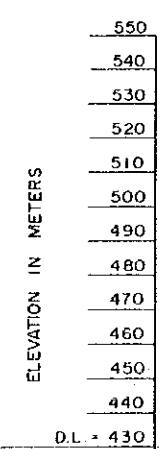
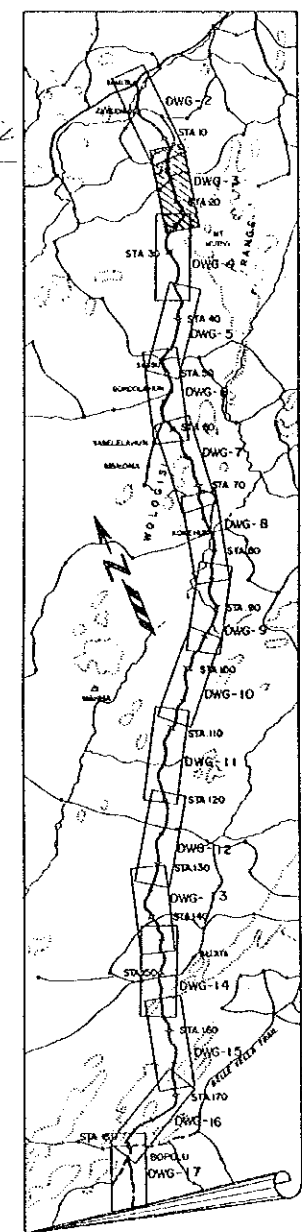
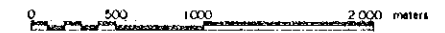
INDEX OF DRAWINGS	SHEET NUMBER
COVER SHEET	DWG - 1
PLAN AND PROFILE	DWG - 2 ~ DWG - 17
TYPICAL CROSS SECTION	DWG - 18
PIPE CULVERT AND CROSS DITCH	DWG - 19
BOX CULVERT	DWG - 20
STANDARD BRIDGE	DWG - 21
LOFA RIVER BRIDGE	DWG - 22

ABBREVIATIONS

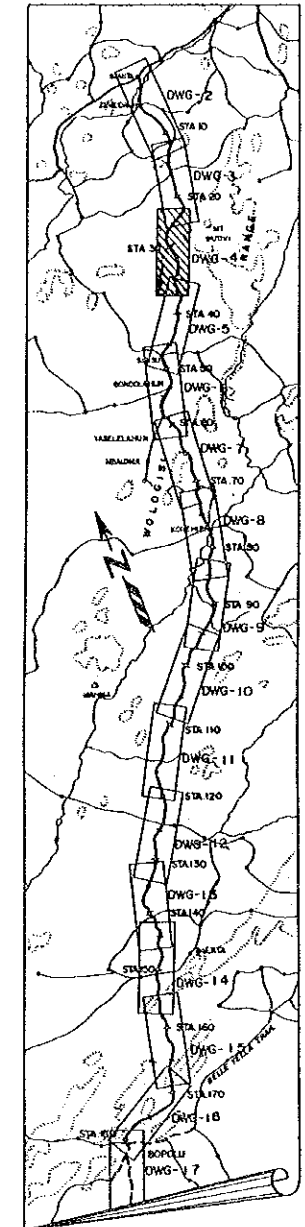
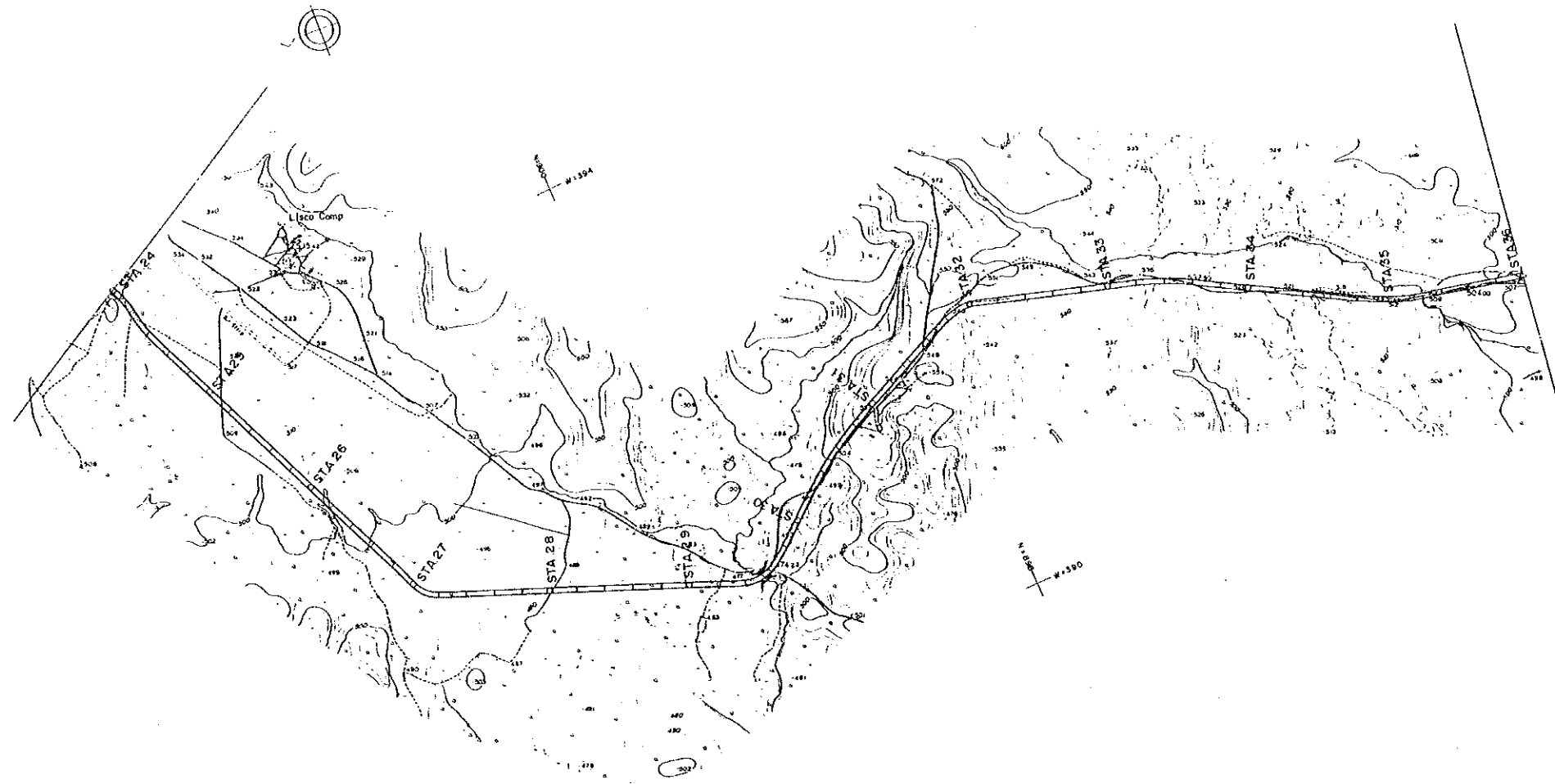
- C - D (A x B) - L : PROPOSED CROSS DITCH
- C - P - n (∅) - L : PROPOSED CORRUGATED METAL PIPE CULVERT
- C - B - n (A x B) - L : PROPOSED BOX CULVERT
- C - P (Cor) ∅ - L : EXISTING CORRUGATED METAL PIPE CULVERT
- Wd - Cul ∅ - L : EXISTING WOODEN PIPE CULVERT
- N : Number of rows ∅ : Diameter (meters) A : Width (meters) B : Height (meters)
- L : Length (meters)
- Br - CS (W x L) (n) : PROPOSED RC - SLAB BRIDGE
- Br - CT (W x L) (n) : PROPOSED RC - T - BEAM BRIDGE
- B - CB (W x L) (n) : PROPOSED RC - BOX GIRDER BRIDGE
- Wd - Br (W x L) (n) : EXISTING WOODEN BRIDGE
- W : Carriage Way Width (meters) L : Span length (meters)
- N : Number of Span (meters)



SOIL DATA	Laterite Clayish		Laterite Gravel	Laterite Clayish		Laterite Gravel	Laterite Clayish						
IMPROVEMENT PLAN	Short Cut	Re alignment		Widening			Short Cut	Widening	Re alignment				
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 0	STA 1	STA 2	STA 3	STA 4	STA 5	STA 6	STA 7	STA 8	STA 9	STA 10	STA 11	STA 12

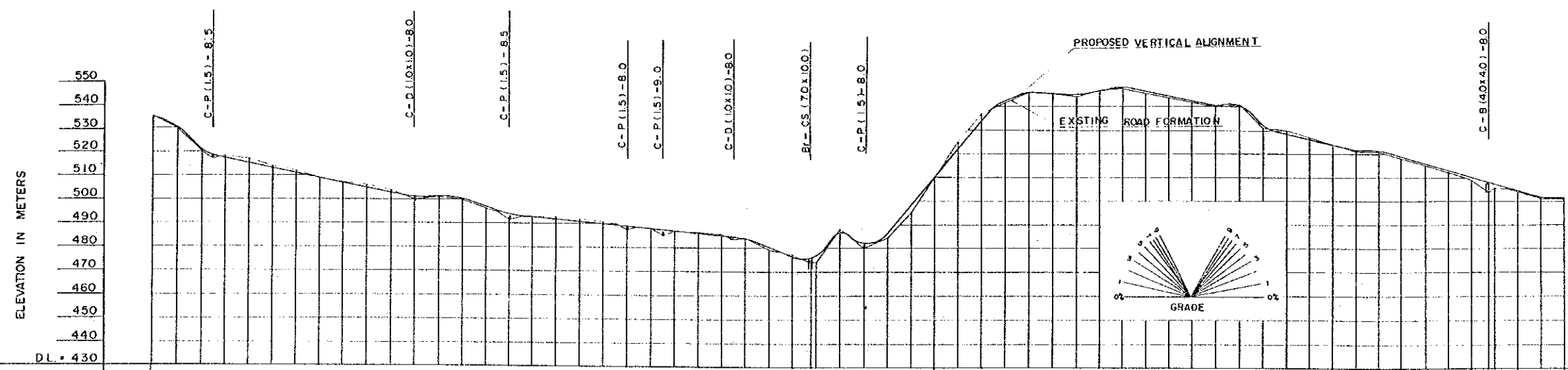


SOIL DATA	Laterite Clayish	Laterite Gravel	Fresh Rock	Laterite Gravel									
IMPROVEMENT PLAN	Realignmnet	Pavement Only	Realignmnet	Short Cut									
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 12	STA 13	STA 14	STA 15	STA 16	STA 17	STA 18	STA 19	STA 20	STA 21	STA 22	STA 23	STA 24

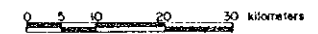
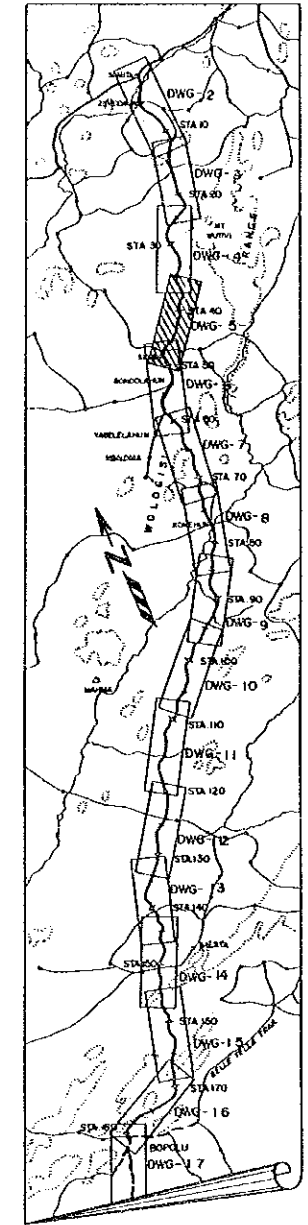
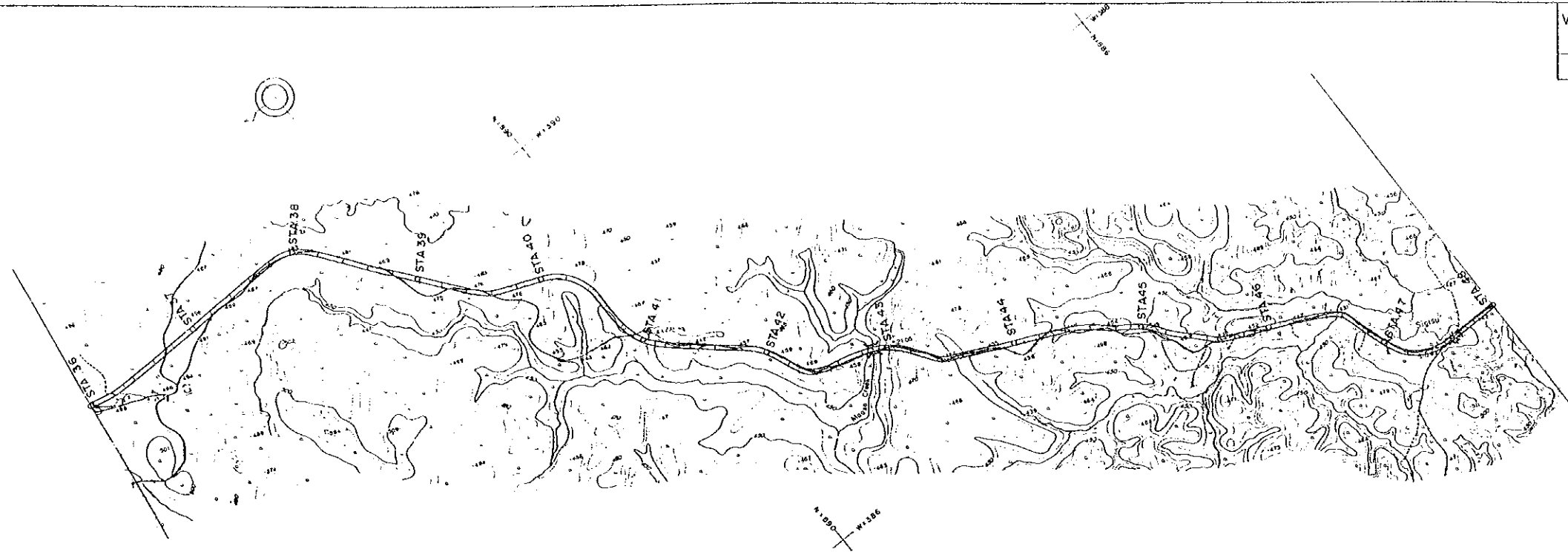
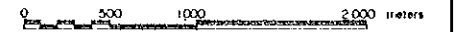


0 5 10 20 30 kilometers

KEY MAP

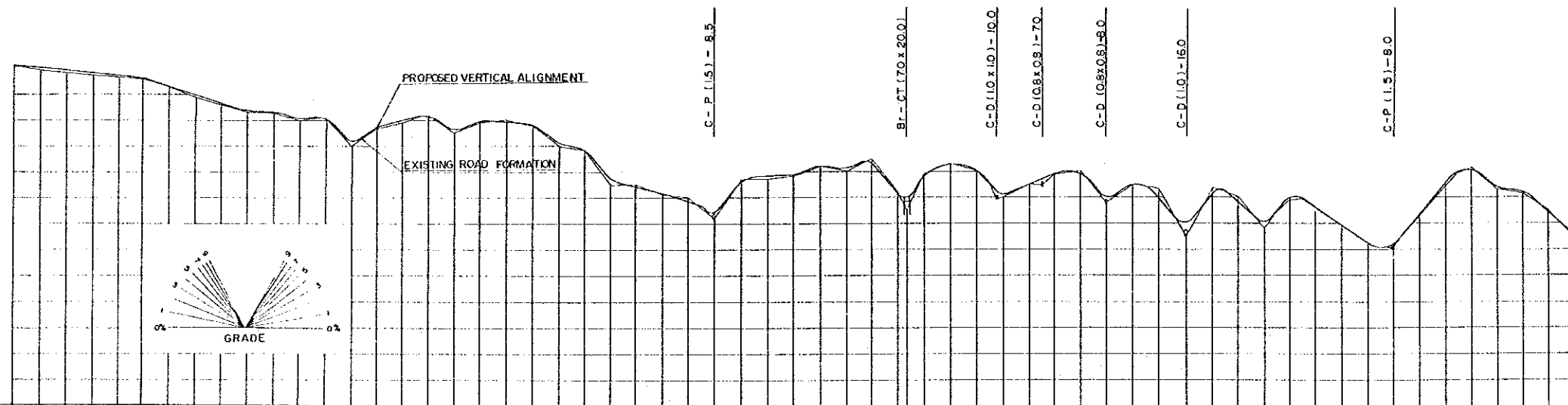


SOIL DATA	Laterite Clayish			Weathered Rock			Laterite Clayish	Fresh Rock	Laterite Clayish				
IMPROVEMENT PLAN	Short Cut			Widening	Short Cut	Widening	Short Cut						
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 24	STA 25	STA 26	STA 27	STA 28	STA 29	STA 30	STA 31	STA 32	STA 33	STA 34	STA 35	STA 36

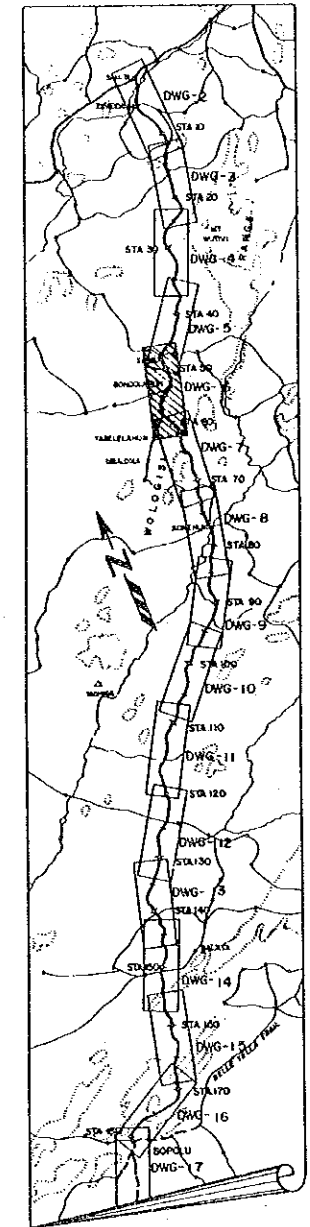
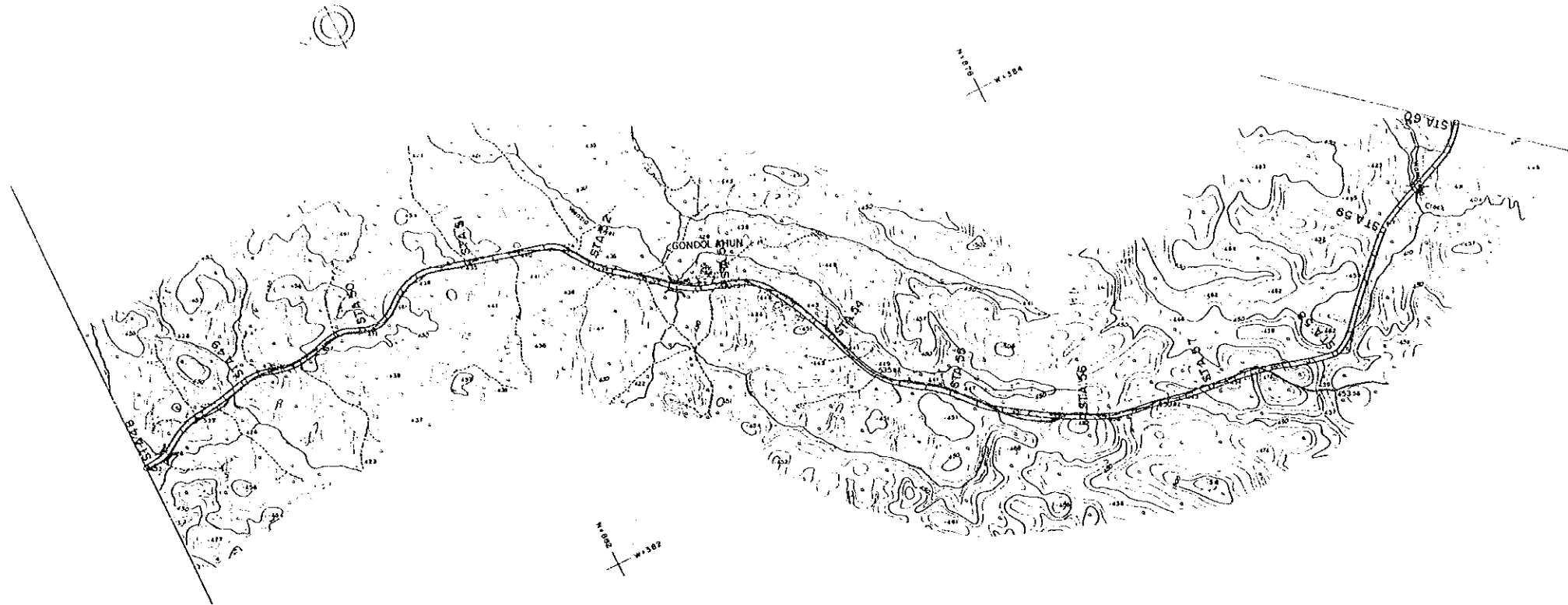
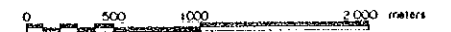


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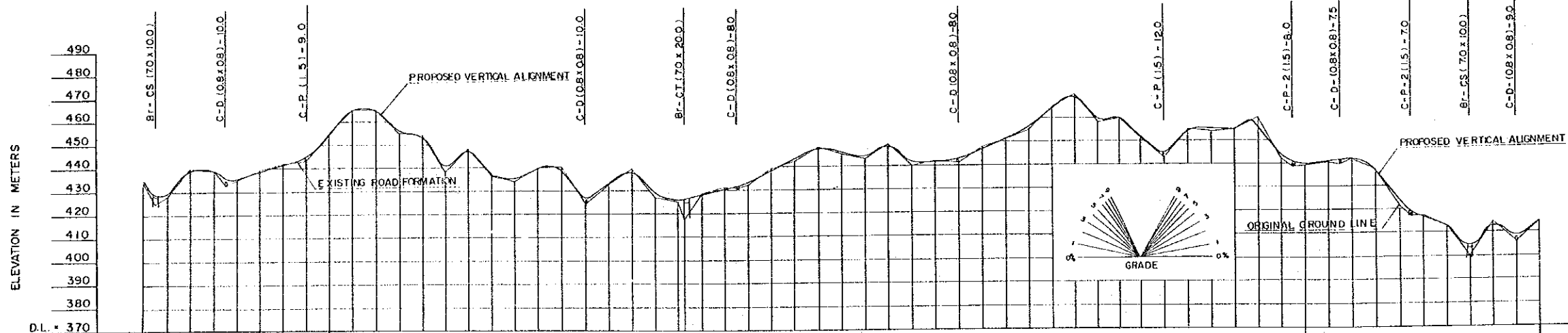
ELEVATION IN METERS
490
480
470
460
450
440
430
420
410
400
390
380
D.L. = 370



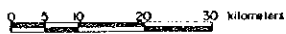
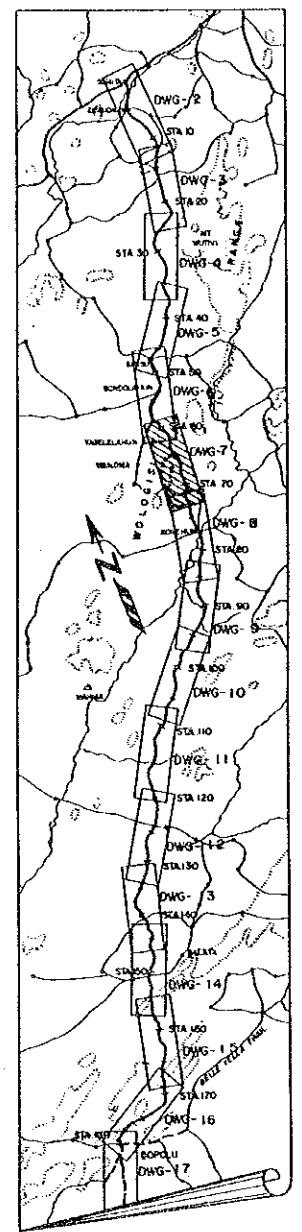
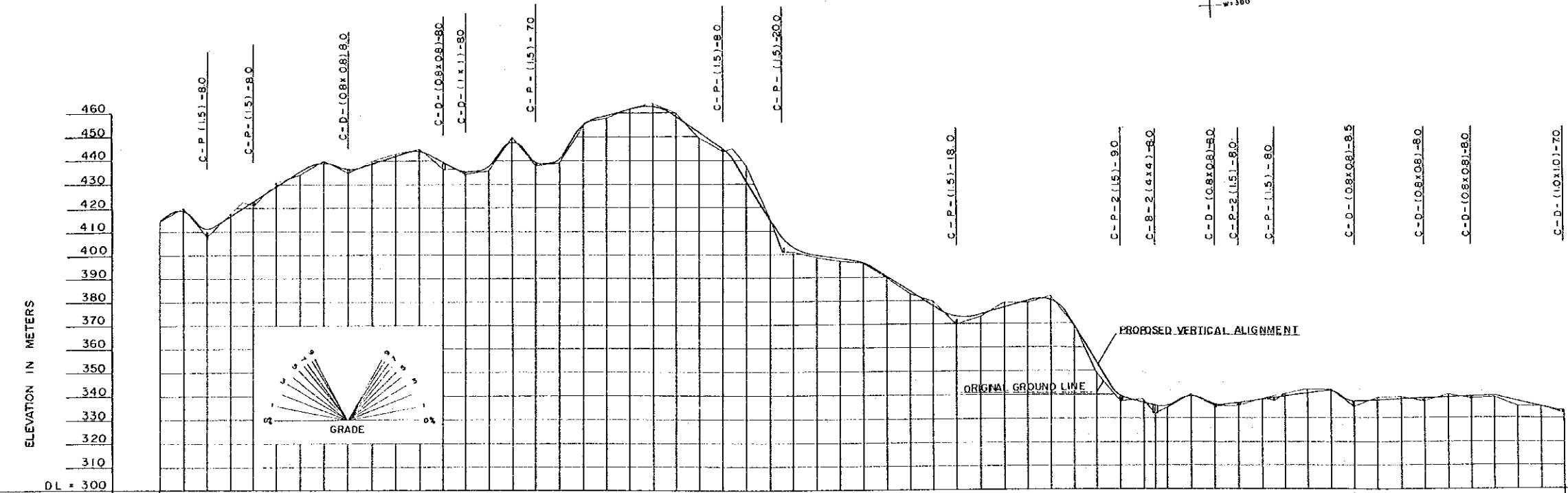
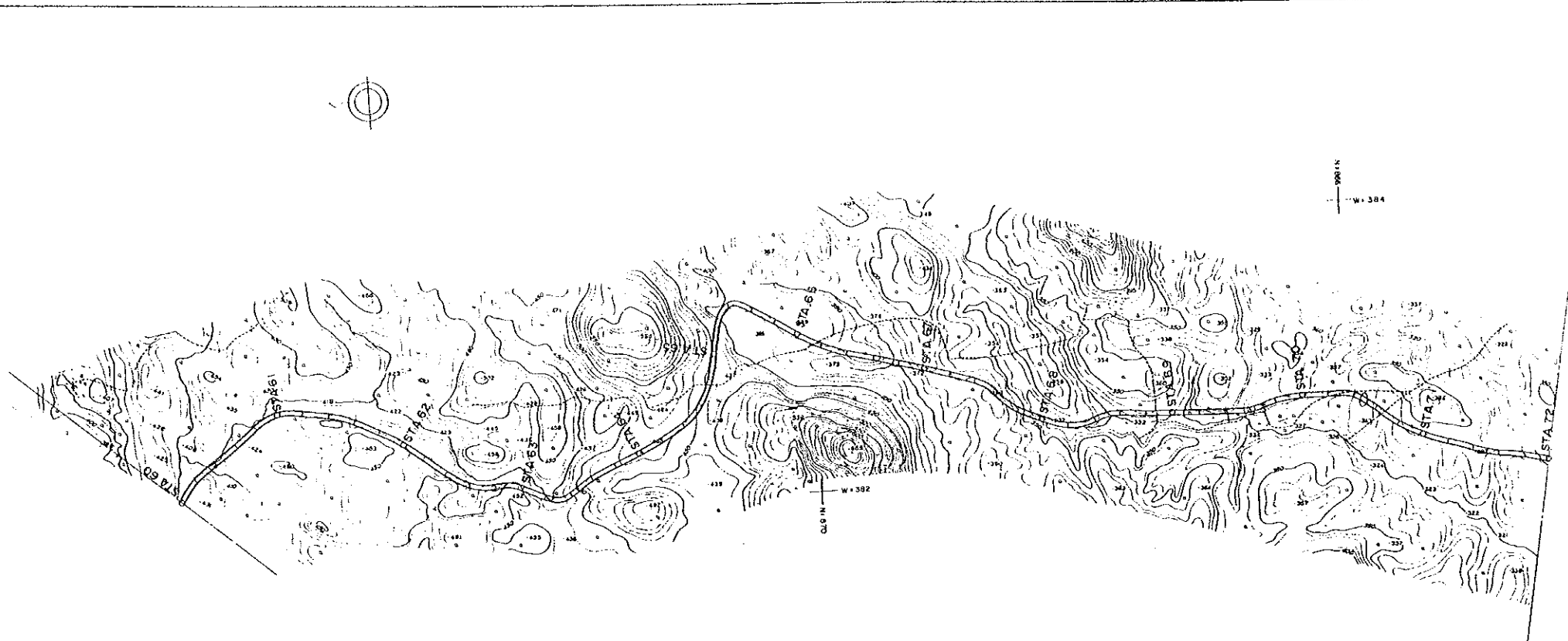
SOIL DATA	Laterite Clayish		Laterite Gravel	Laterite Clayish									
IMPROVEMENT PLAN	Short Cut	Widening	Short Cut	Widening	Short Cut	Realignment	Short Cut	Pavement Only	Widening				
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA.36	STA.37	STA.38	STA.39	STA.40	STA.41	STA.42	STA.43	STA.44	STA.45	STA.46	STA.47	STA.48



KEY MAP

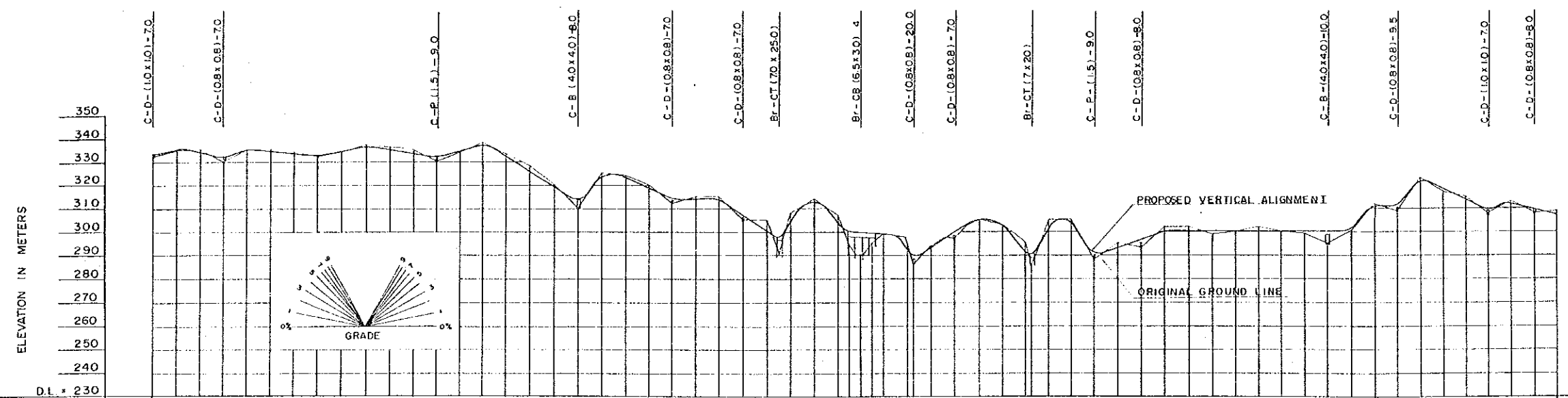
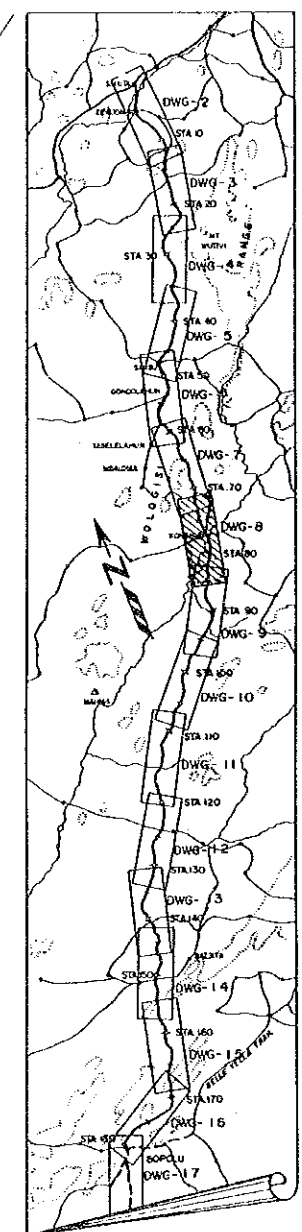
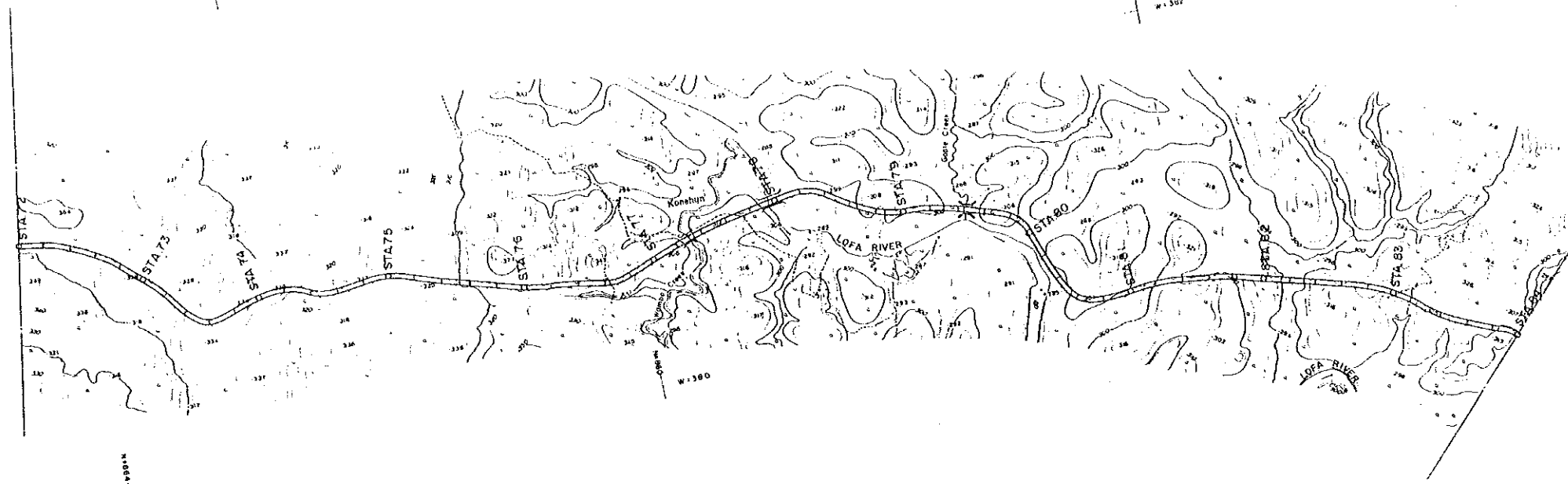
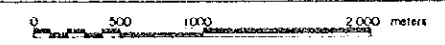


SOIL DATA	Laterite Claysh	Laterite Sandy	Laterite	Claysh	UN - INVESTIGATION								
IMPROVEMENT PLAN	Widening		Pavement Only	Widening	New Construction Road								
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA. 48	STA. 49	STA. 50	STA. 51	STA. 52	STA. 53	STA. 54	STA. 55	STA. 56	STA. 57	STA. 58	STA. 59	STA. 60

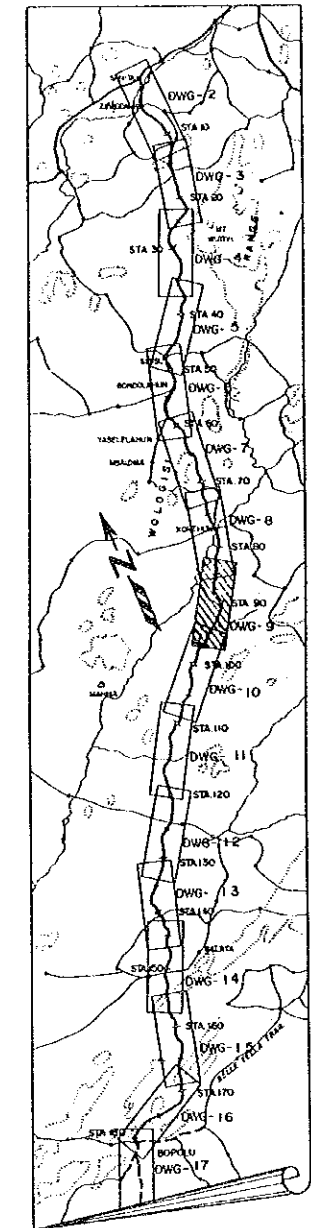
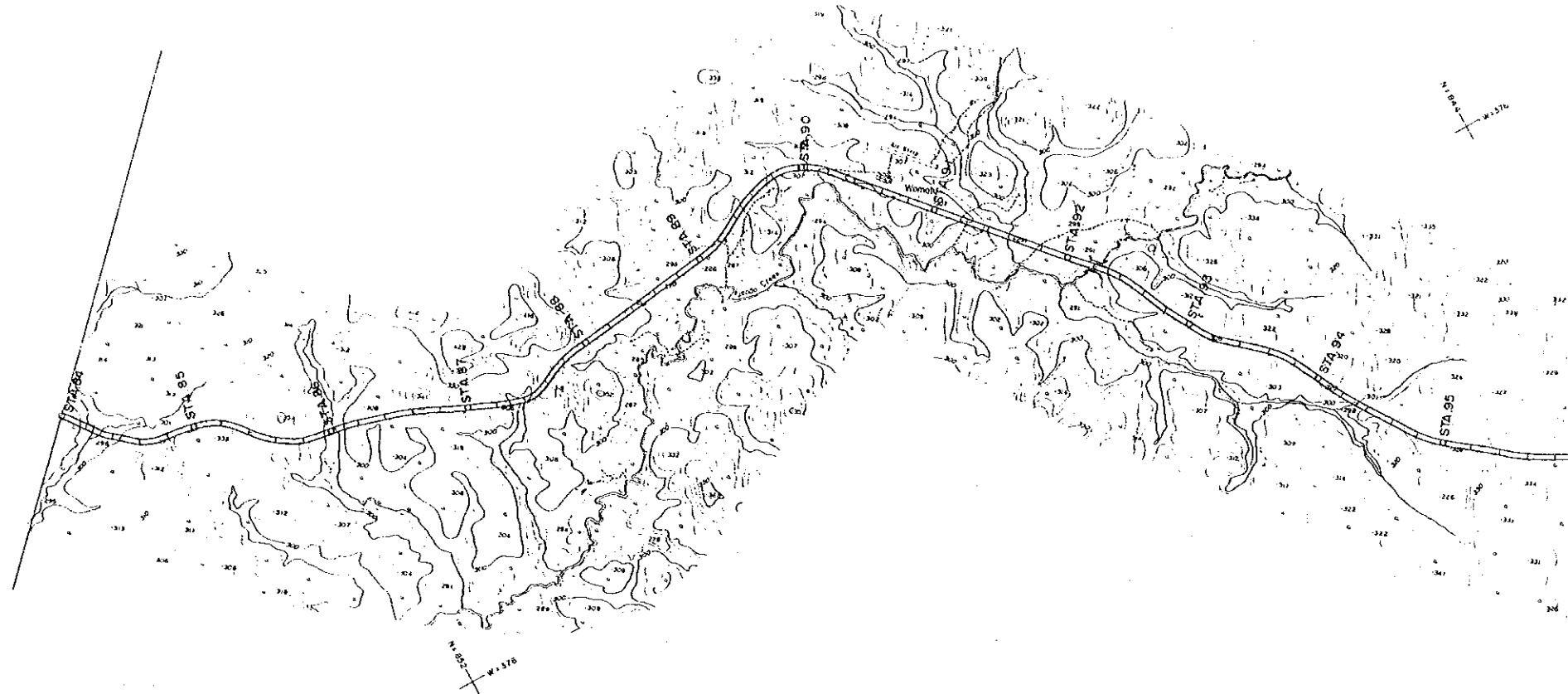


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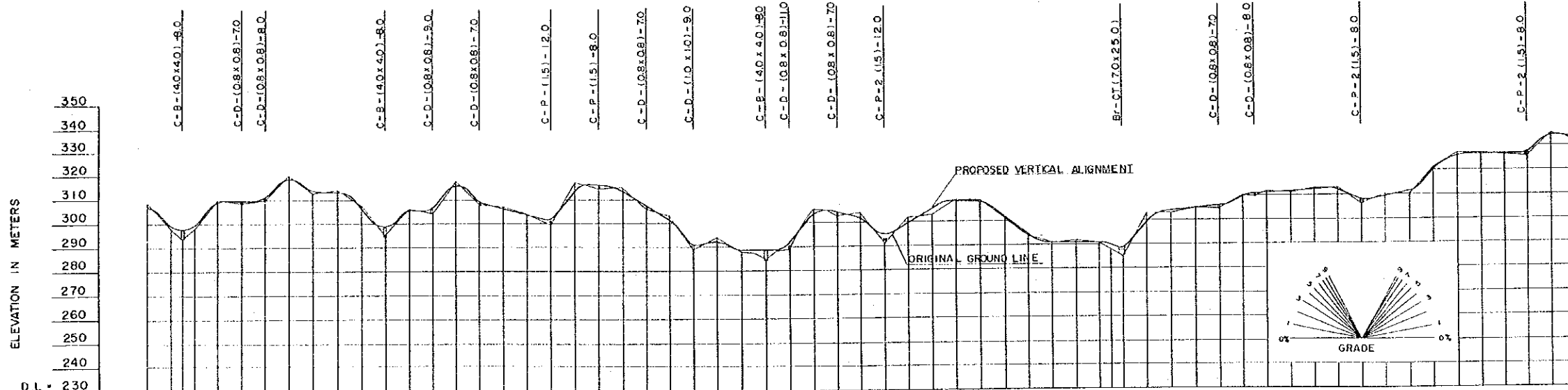
SOIL DATA	UN-INVESTIGATION												
IMPROVEMENT PLAN	New Construction Road												
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 60	STA 61	STA 62	STA 63	STA 64	STA 65	STA 66	STA 67	STA 68	STA 69	STA 70	STA 71	STA 72



SOIL DATA	UN- INVESTIGATION												
IMPROVEMENT PLAN	New Construction Road												
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 72	STA 73	STA 74	STA 75	STA 76	STA 77	STA 78	STA 79	STA 80	STA 81	STA 82	STA 83	STA 84

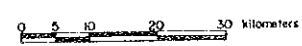
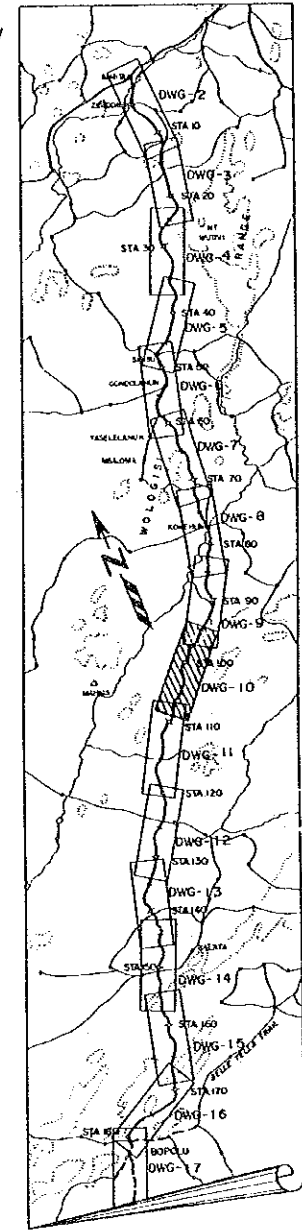


KEY MAP



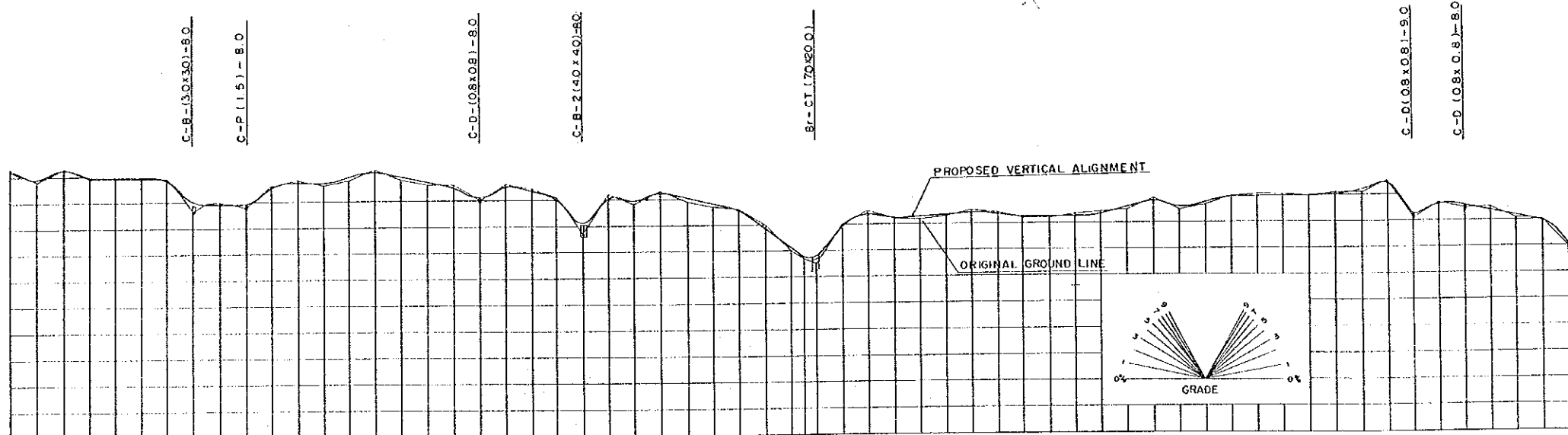
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 C-D-(0.8x0.8)-7.0
 C-D-(0.8x0.8)-8.0
 C-B-(4.0x4.0)-8.0
 C-D-(0.8x0.8)-9.0
 C-D-(0.8x0.8)-7.0
 C-P-(1.5)-12.0
 C-P-(1.5)-8.0
 C-D-(0.8x0.8)-7.0
 C-D-(1.0x1.0)-9.0
 C-B-(4.0x4.0)-8.0
 C-D-(0.8x0.8)-1.0
 C-D-(0.8x0.8)-7.0
 C-P-2-(1.5)-12.0
 Br-CT(7.0x25.0)
 C-D-(0.8x0.8)-7.0
 C-D-(0.8x0.8)-8.0
 C-P-2-(1.5)-8.0
 C-P-2-(1.5)-8.0

SOIL DATA	UN - INVESTIGATION												
IMPROVEMENT PLAN	New Construction Road												
TERRAIN	HILLY AND MOUNTAINOUS						ROLLING						
STATION	STA 84	STA 85	STA 86	STA 87	STA 88	STA 89	STA 90	STA 91	STA 92	STA 93	STA 94	STA 95	STA 96

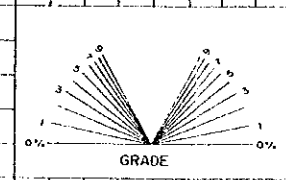
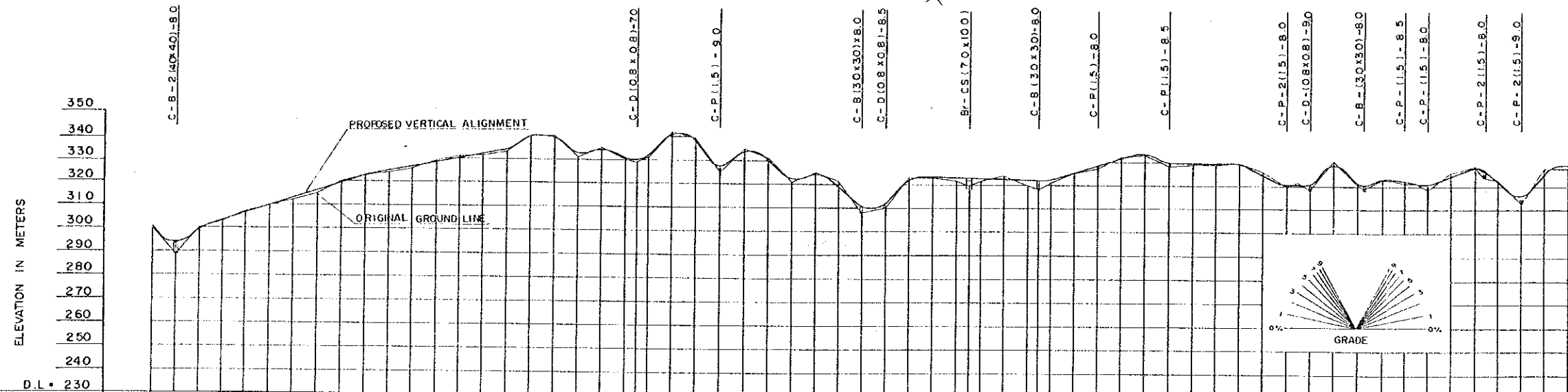
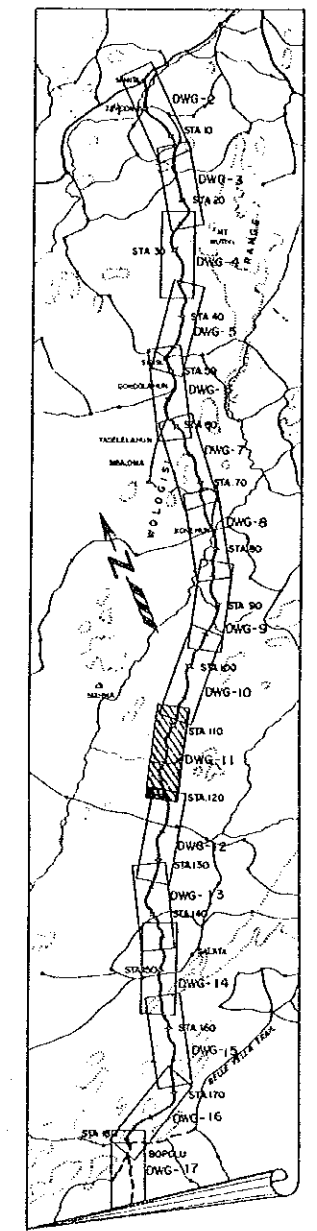


KEY MAP

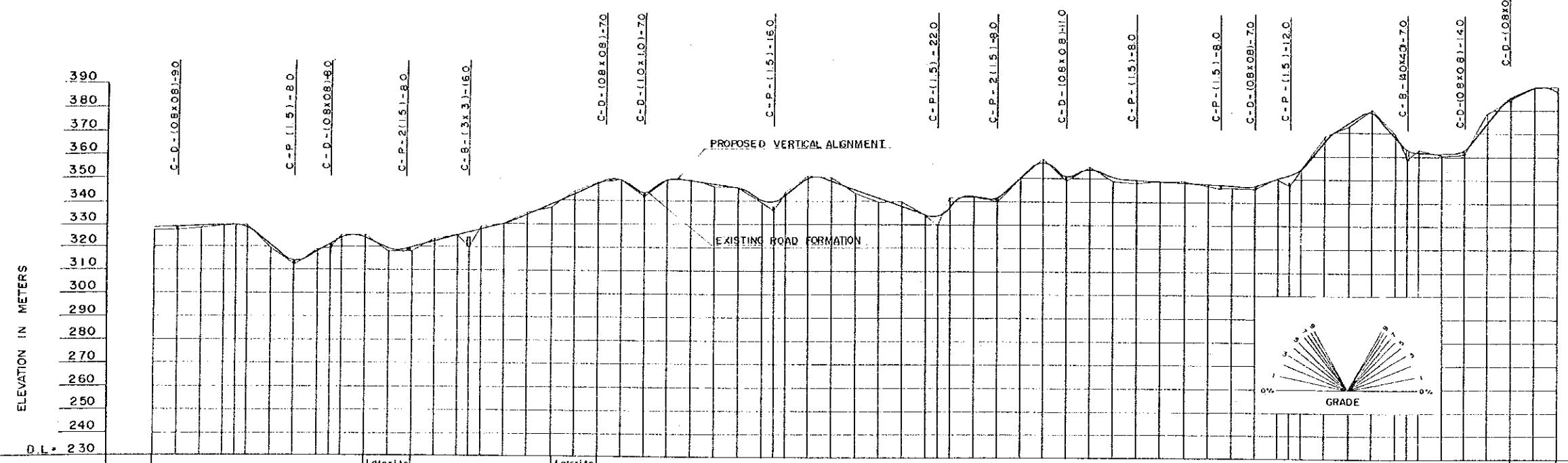
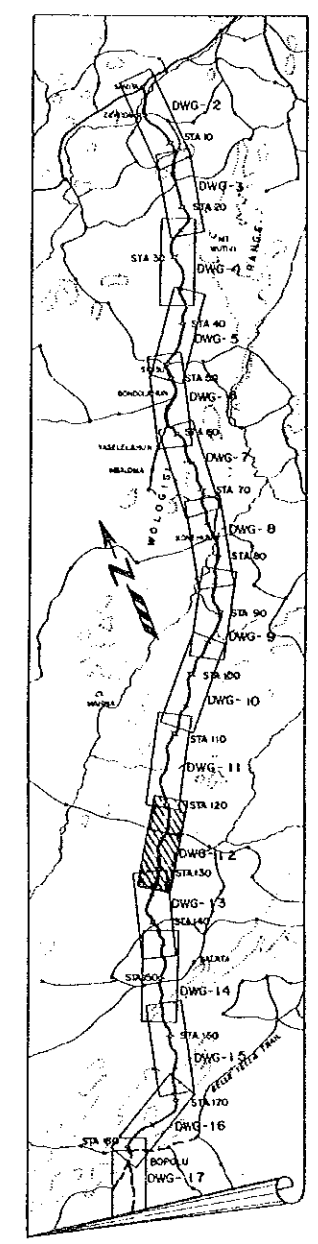
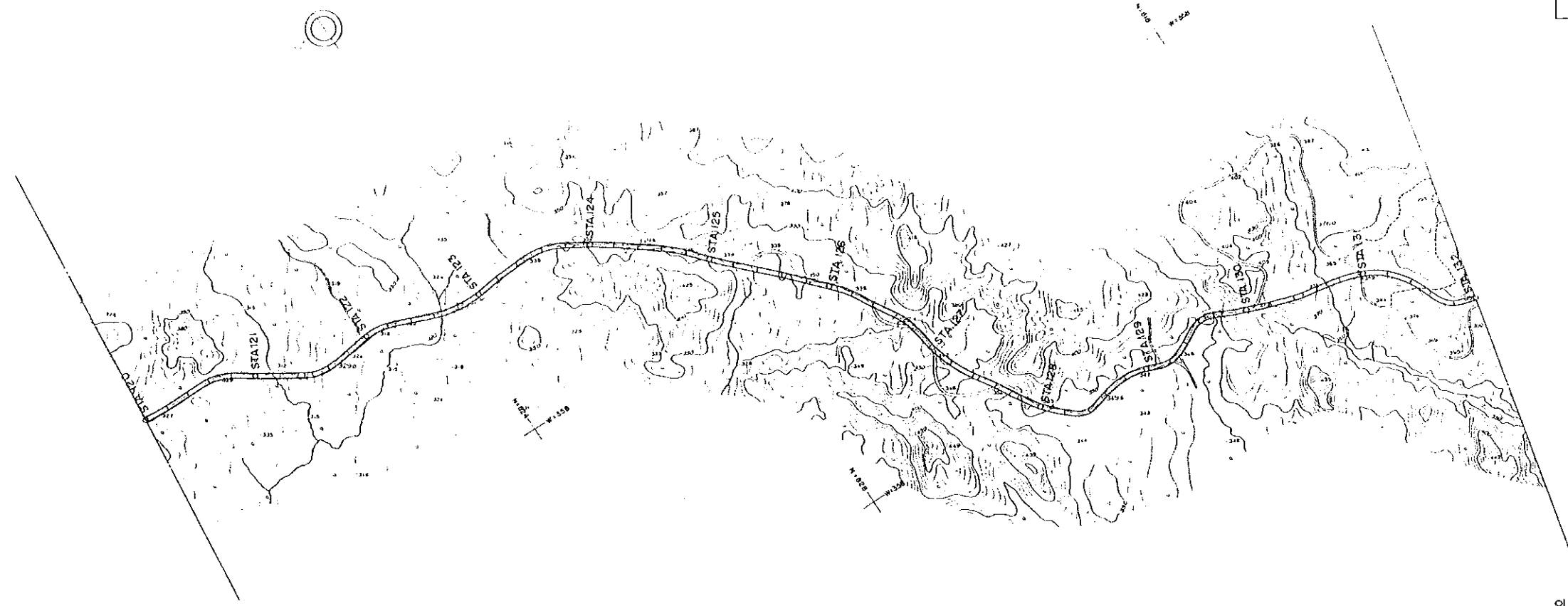
ELEVATION IN METERS
 360
 350
 340
 330
 320
 310
 300
 290
 280
 270
 260
 250
 240
 D.L. = 230



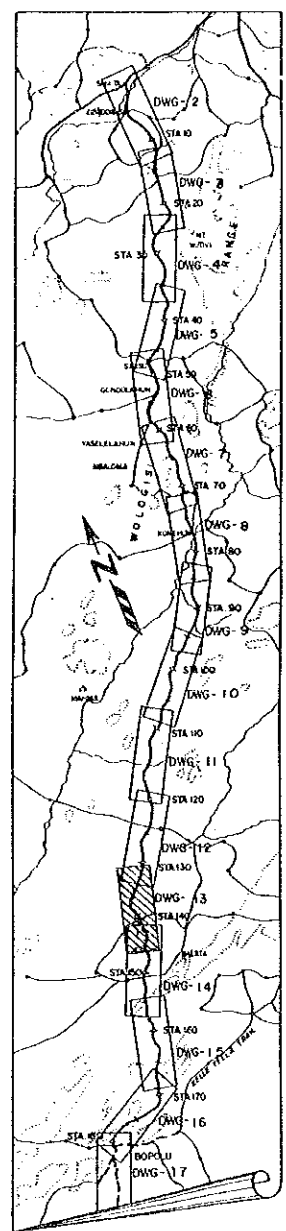
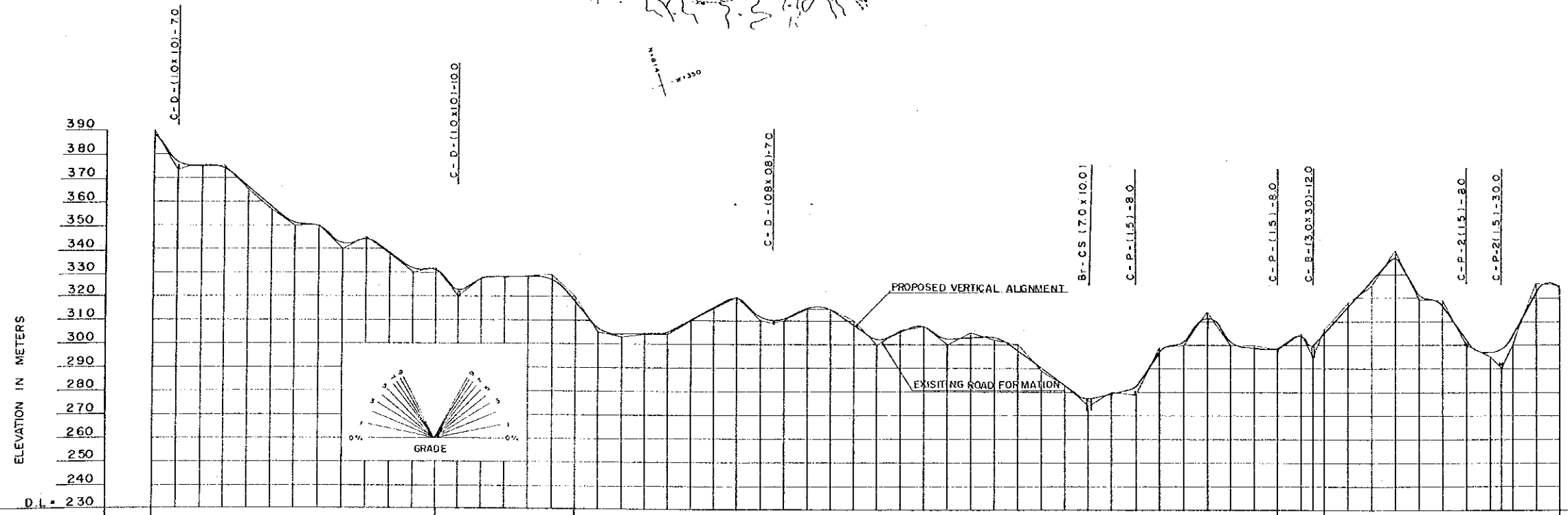
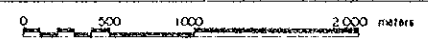
SOIL DATA	UN - INVESTIGATION												
IMPROVEMENT PLAN	New Construction Road												
TERRAIN	ROLLING												
STATION	STA 96	STA 97	STA 98	STA 99	STA 100	STA 101	STA 102	STA 103	STA 104	STA 105	STA 106	STA 107	STA 108



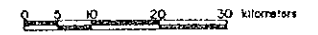
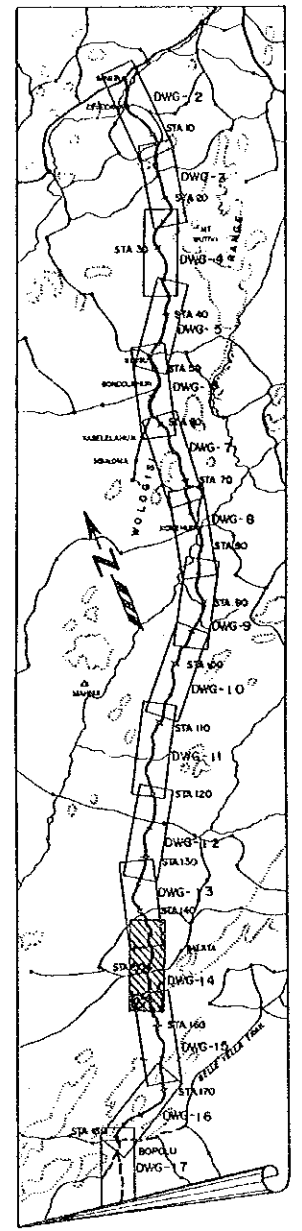
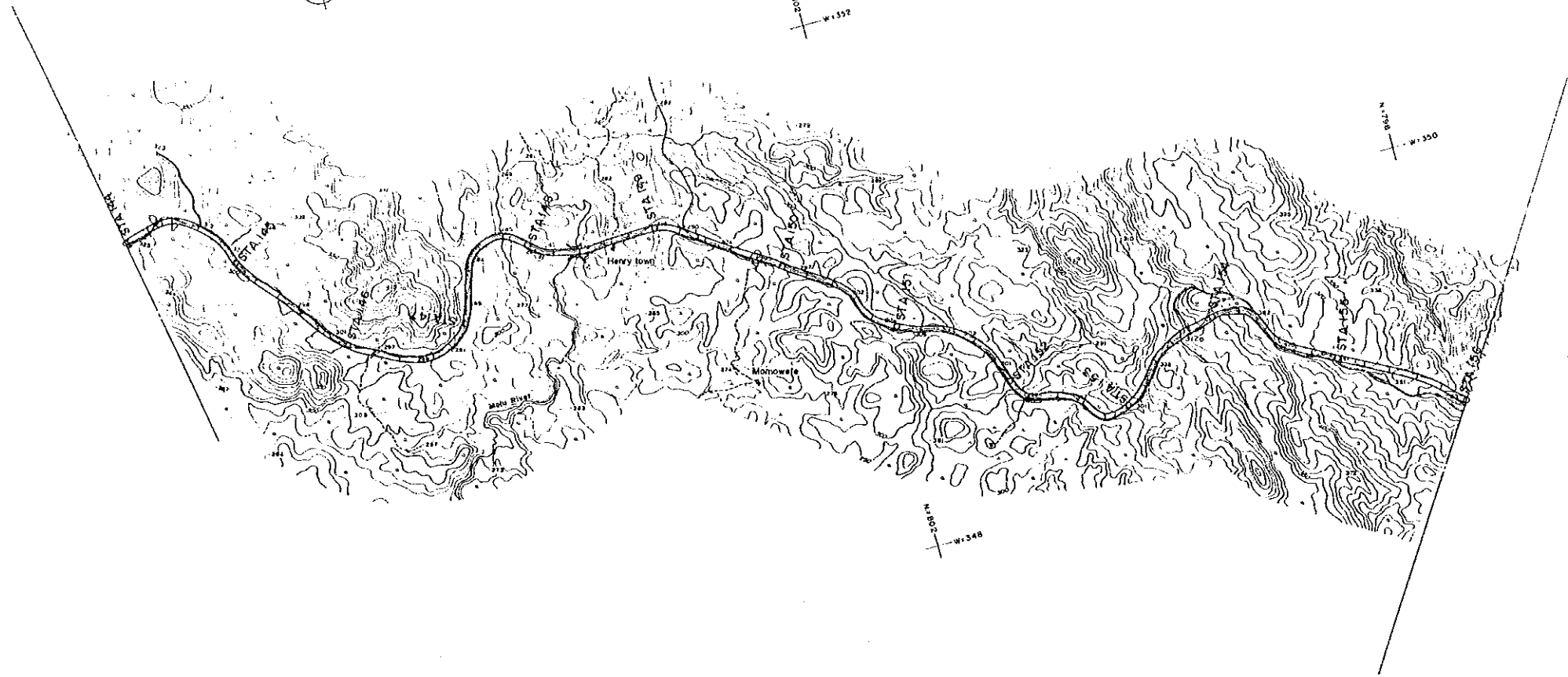
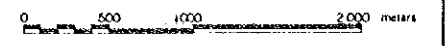
SOIL DATA	UN - INVESTIGATION	Laterite Clayish	Fresh Rock	Laterite Clayish									
IMPROVEMENT PLAN	New Construction Road	Pavement Only	Short Cut										
TERRAIN	ROLLING												
STATION	STA 108	STA 109	STA 110	STA 111	STA 112	STA 113	STA 114	STA 115	STA 116	STA 117	STA 118	STA 119	STA 120



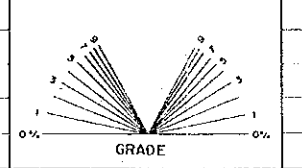
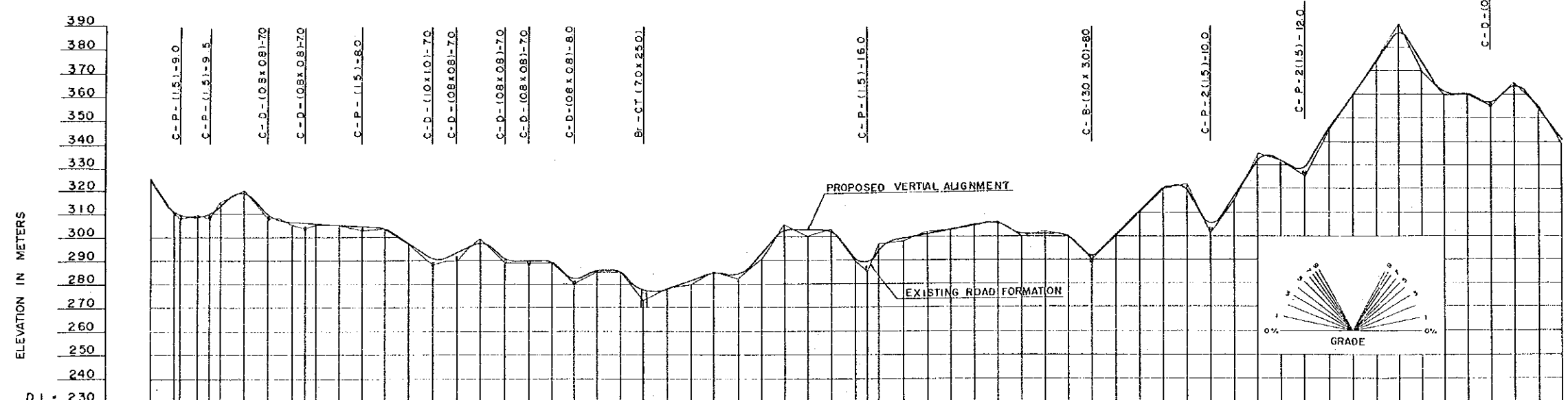
SOIL DATA	Laterite Clayish	Laterite Sandy	Laterite Clayish	Laterite Sandy	Laterite Clayish	Laterite Clayish	Laterite Sandy						
IMPROVEMENT PLAN	Realignment	Pavement	Only	Short Cut	Pavement Only	Short Cut	Realignment	Short Cut					
TERRAIN	ROLLING												
STATION	STA 120	STA 121	STA 122	STA 123	STA 124	STA 125	STA 126	STA 127	STA 128	STA 129	STA 130	STA 131	STA 132



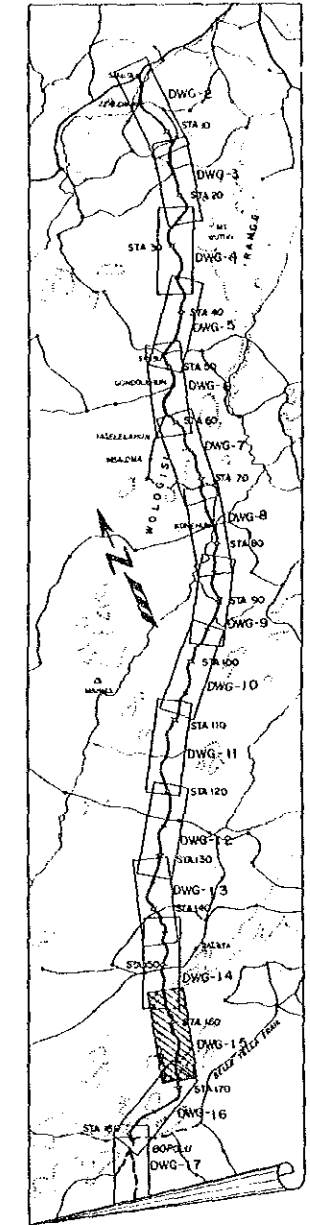
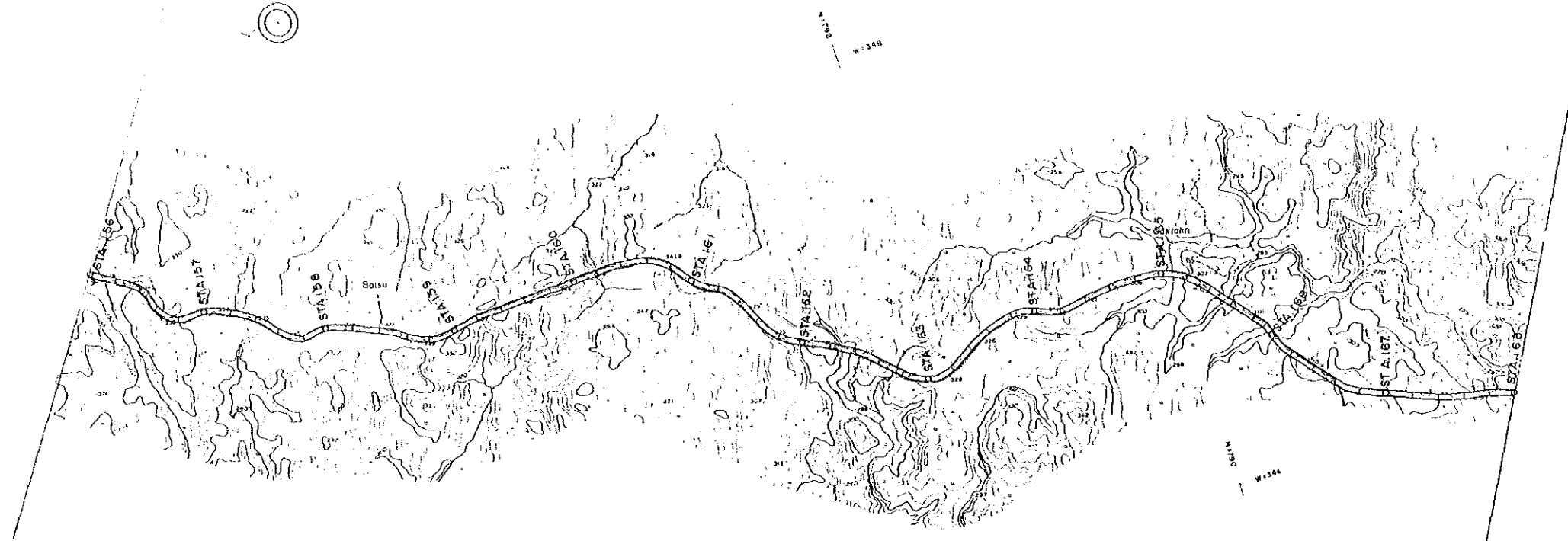
SOIL DATA	Laterite Clayish	Laterite Sandy	Laterite Clayish	Laterite Sandy	Laterite Clayish								
IMPROVEMENT PLAN	Realignment	Short Cut	Pavement Only	Realignment	Short Cut								
TERRAIN	ROLLING												
STATION	STA 132	STA 133	STA 134	STA 135	STA 136	STA 137	STA 138	STA 139	STA 140	STA 141	STA 142	STA 143	STA 144



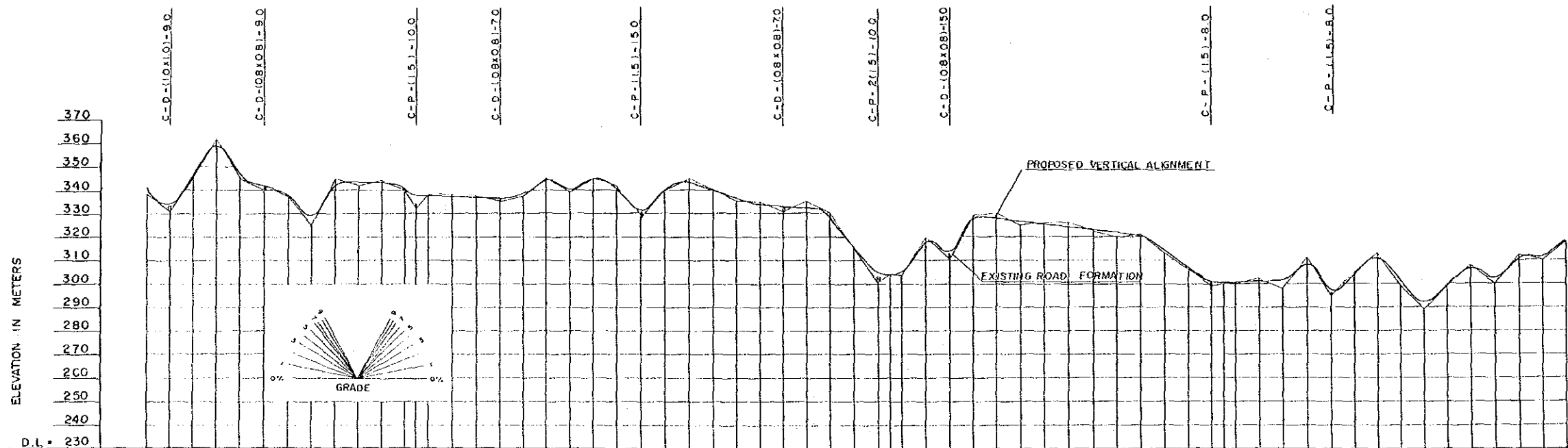
KEY MAP



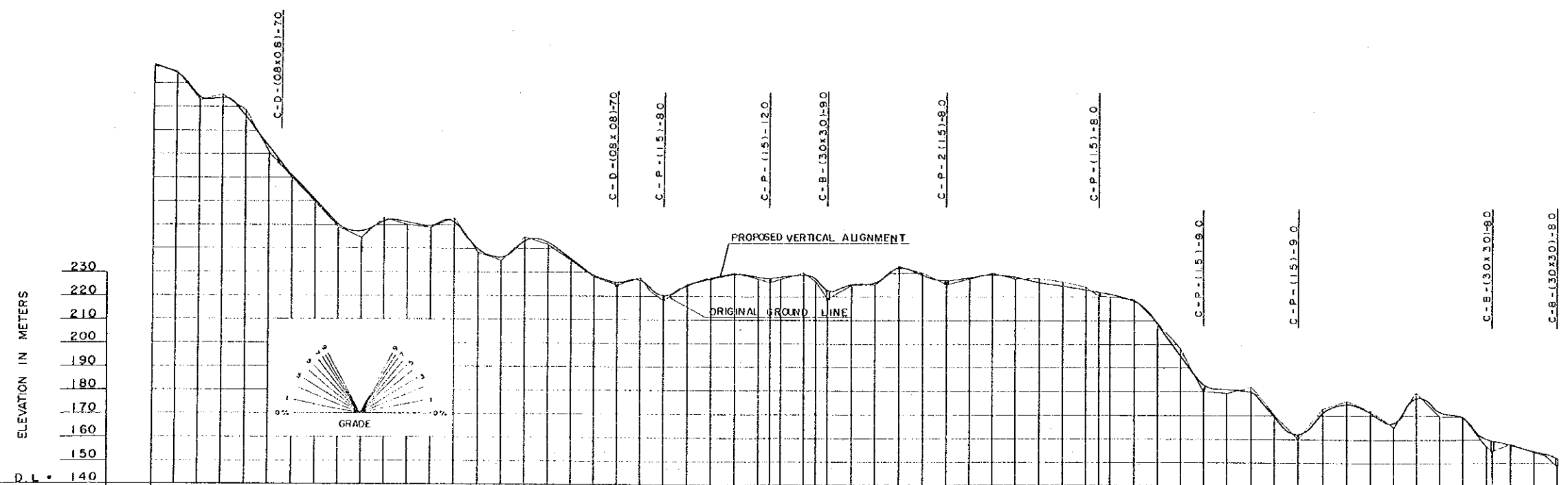
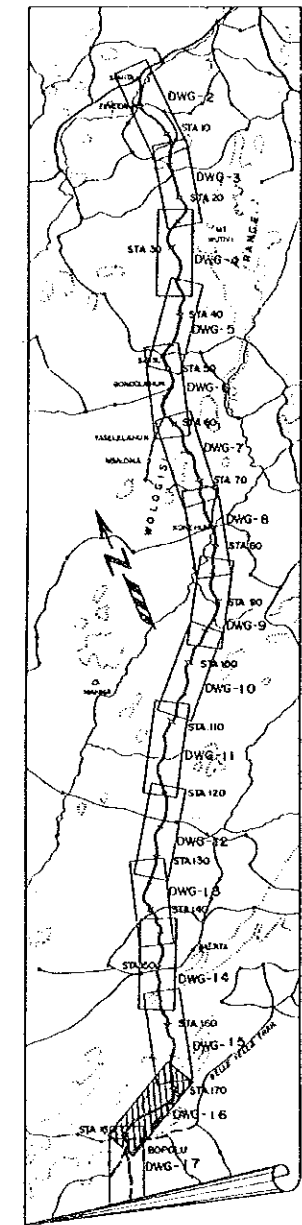
SOIL DATA	Laterite Clayish		Laterite Gravel	Laterite Clayish		Laterite Sandy	Laterite Clayish	Fresh Rock	Laterite Clayish				
IMPROVEMENT PLAN	Realignment	Pavement Only		Short Cut	Pavement Only		Realignment	Short Cut	Realign - ment Short Cut				
TERRAIN	ROLLING				HILLY AND MOUNTAINOUS								
STATION	STA 144	STA 145	STA 146	STA 147	STA 148	STA 149	STA 150	STA 151	STA 152	STA 153	STA 154	STA 155	STA 156



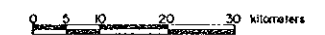
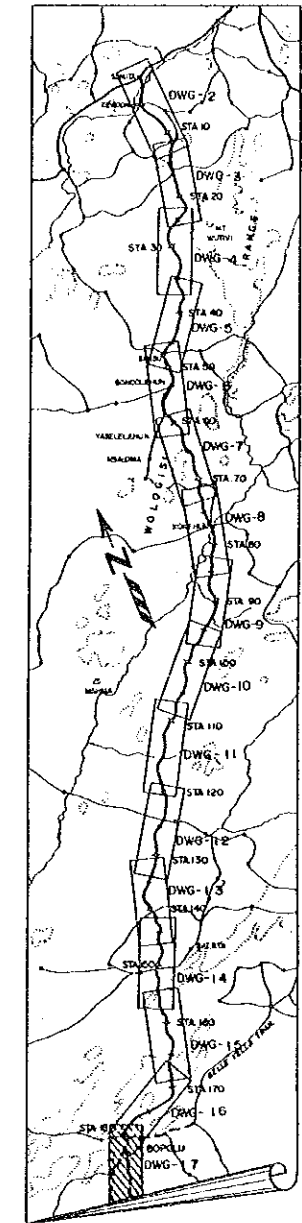
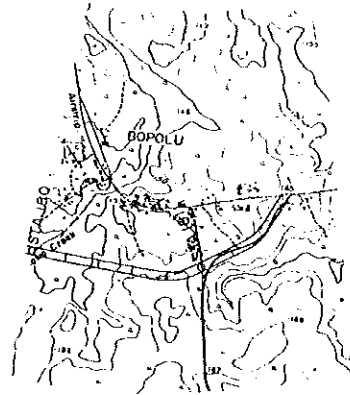
KEY MAP



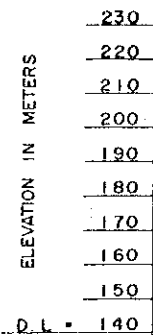
SOIL DATA	Laterite Clayish	Laterite Gravel	Laterite Clayish	Laterite Gravel	Laterite Clayish	Laterite Gravel	Laterite Clayish	Laterite Gravel	Laterite Clayish	UN INVESTIGATION			
IMPROVEMENT PLAN	Realignment	Pavement Only	Realignment	Pavement Only	Realignment	Pavement Only	Realignment	Pavement Only	Realignment	New Construction Road			
TERRAIN	HILLY AND MOUNTAINOUS												
STATION	STA 156	STA 157	STA 158	STA 159	STA 160	STA 161	STA 162	STA 163	STA 164	STA 165	STA 166	STA 167	STA 168



SOIL DATA	UN - INVESTIGATION												
IMPROVEMENT PLAN	New Construction Road												
TERRAIN	HILLY AND MOUNTAINOUS					ROLLING							
STATION	STA 168	STA 169	STA 170	STA 171	STA 172	STA 173	STA 174	STA 175	STA 176	STA 177	STA 178	STA 179	STA 180



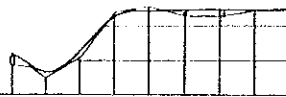
KEY MAP



C-R(3.0:3.0)-8.0

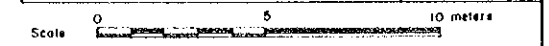
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C-D-(1.0x1.0)-8.5



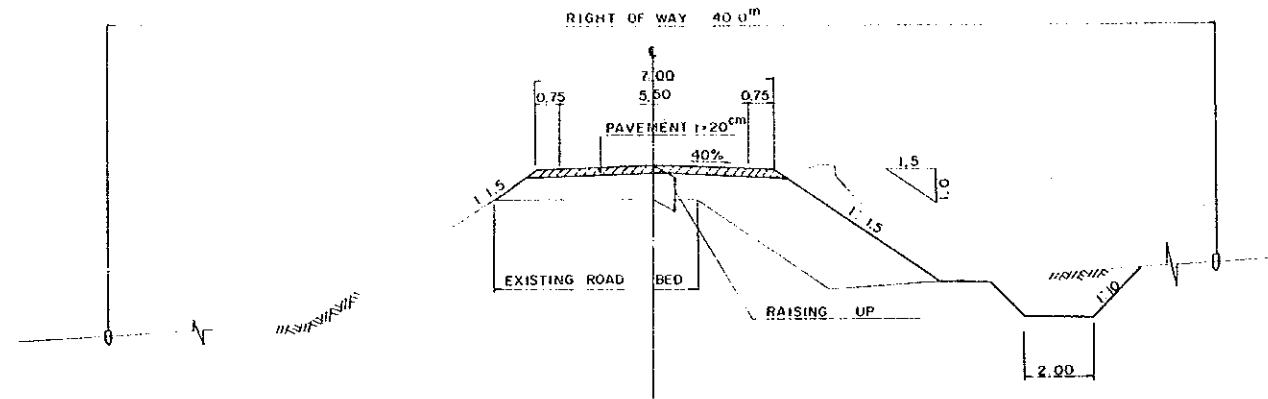
D.L. = 140

SOIL DATA	UN - INVESTIGATION
IMPROVEMENT PLAN	New Construction Road
TERRAIN	ROLLING
STATION	STA 180 STA 181



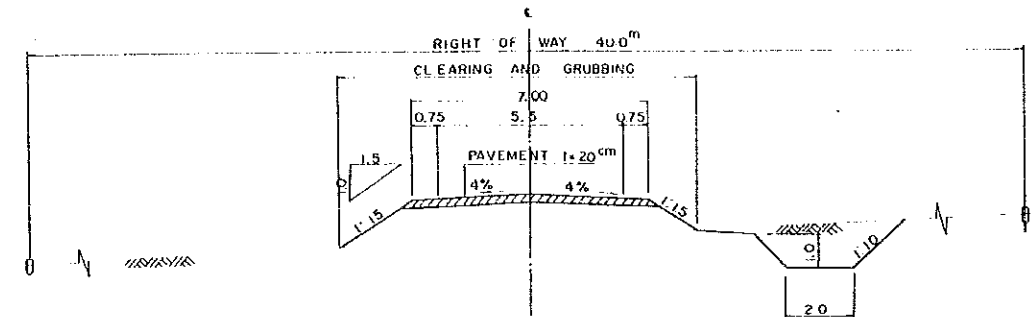
IMPROVEMENT SECTION

FILL SECTION
RAISING UP AND WIDENING



NEW ROAD CONSTRUCTION SECTION

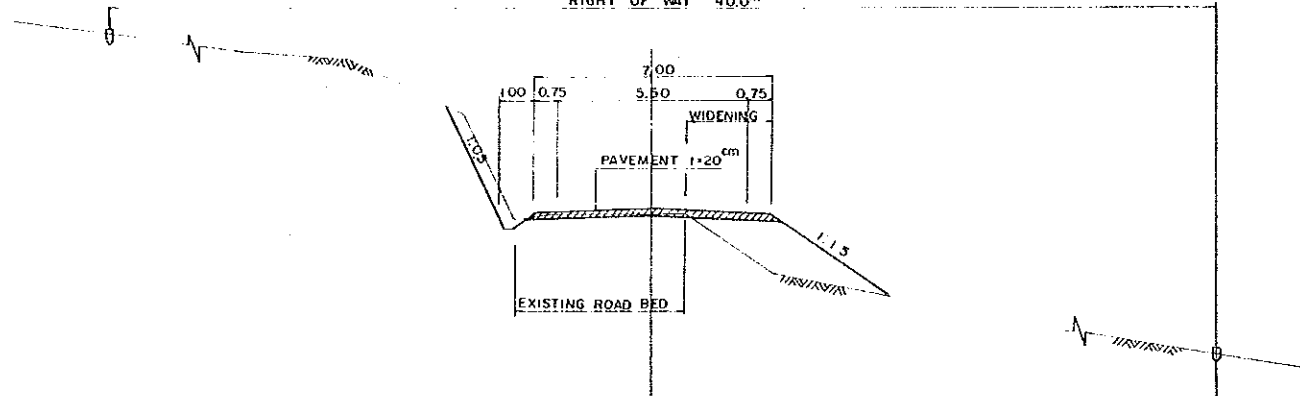
FILL SECTION



FILL AND CUT SECTION

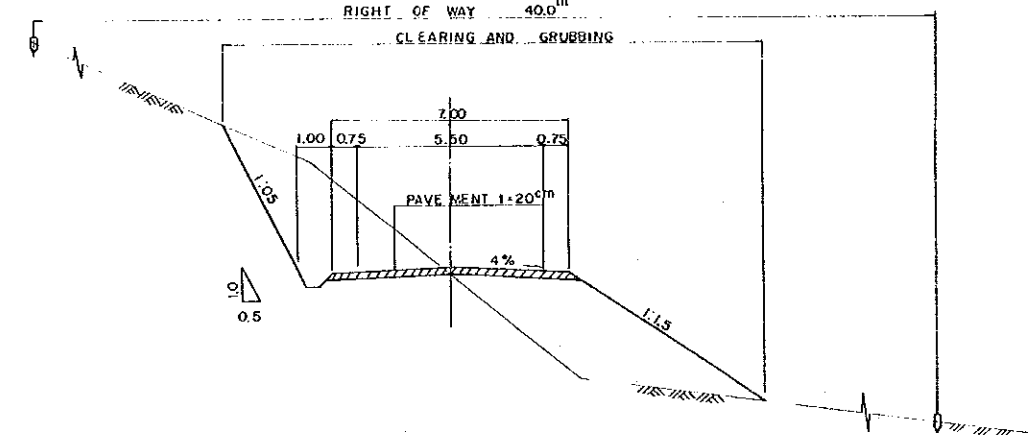
WIDENING

RIGHT OF WAY 40.0m



FILL AND CUT SECTION

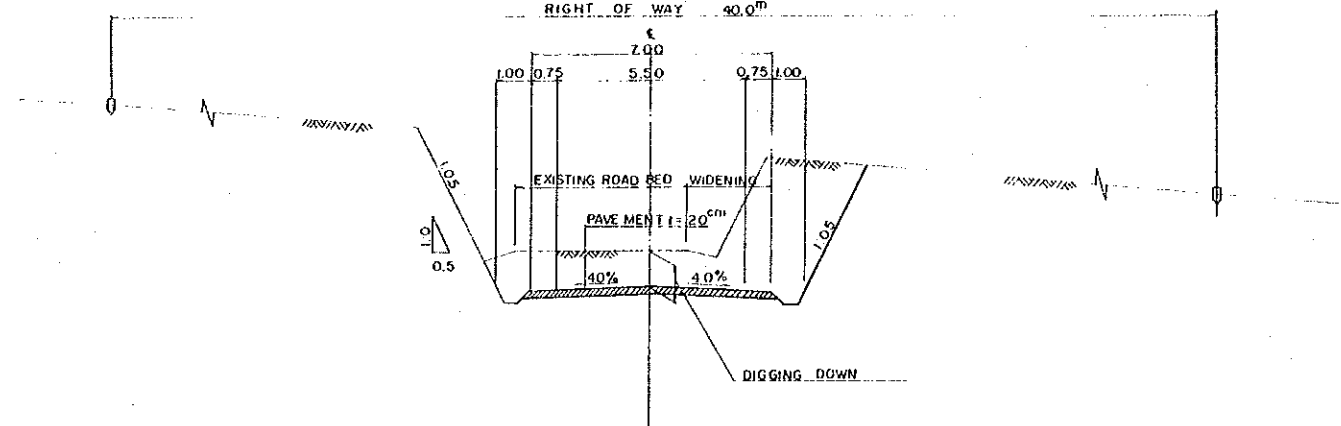
RIGHT OF WAY 40.0m
CLEARING AND GRUBBING



CUT SECTION

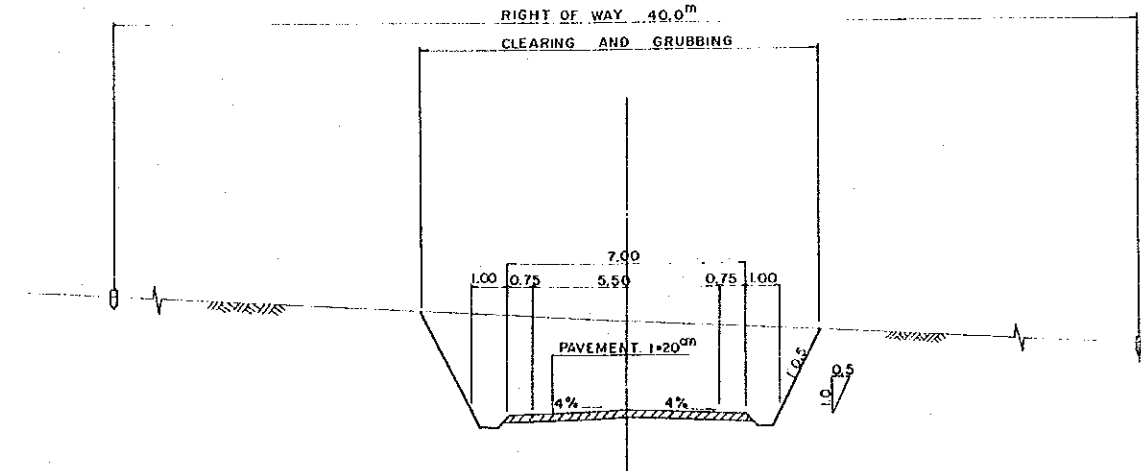
DIGGING DOWN AND WIDENING

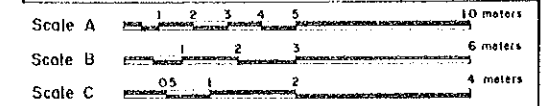
RIGHT OF WAY 40.0m



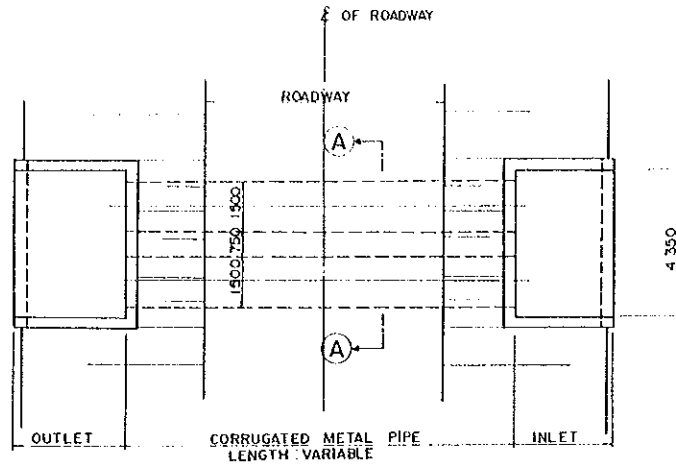
CUT SECTION

RIGHT OF WAY 40.0m
CLEARING AND GRUBBING

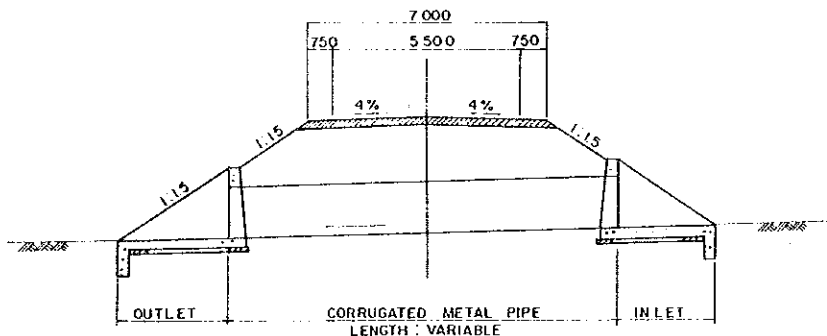




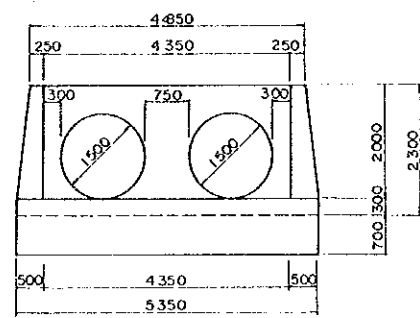
PIPE CULVERT



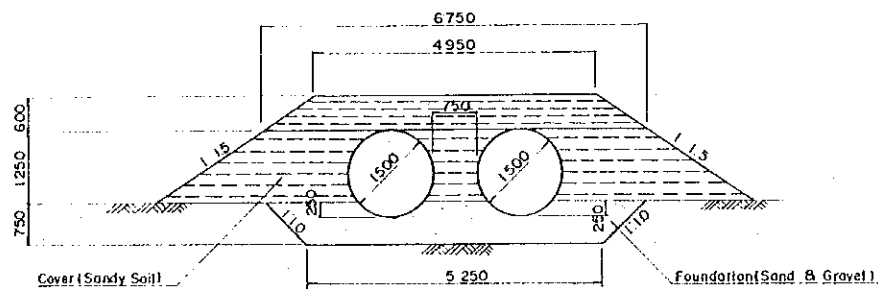
PLAN SCALE A



PROFILE SCALE A

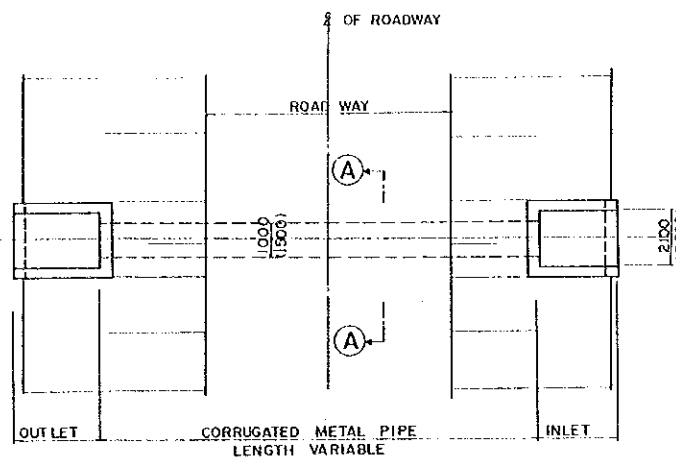


FRONT VIEW SCALE B

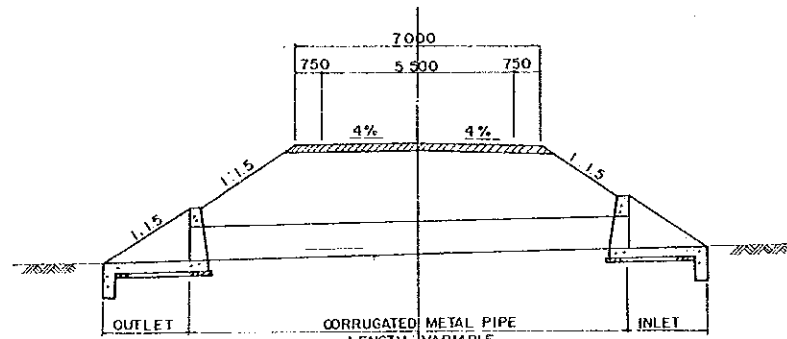


CROSS SECTION (A) - (A) SCALE B

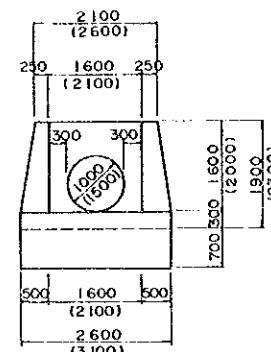
PIPE CULVERT



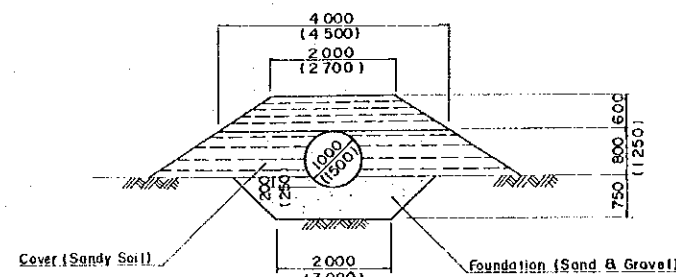
PLAN SCALE A



PROFILE SCALE A

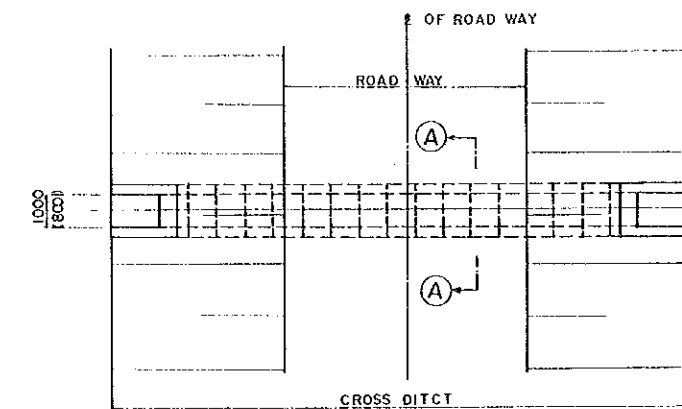


FRONT VIEW SCALE B



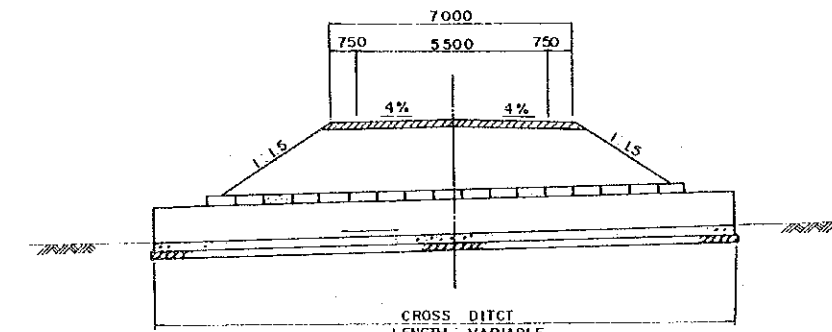
CROSS SECTION (A) - (A) SCALE B

CROSS DITCH



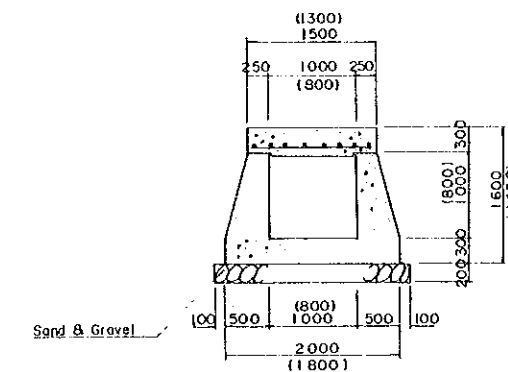
CROSS DITCH LENGTH: VARIABLE

PLAN SCALE A



CROSS DITCH LENGTH: VARIABLE

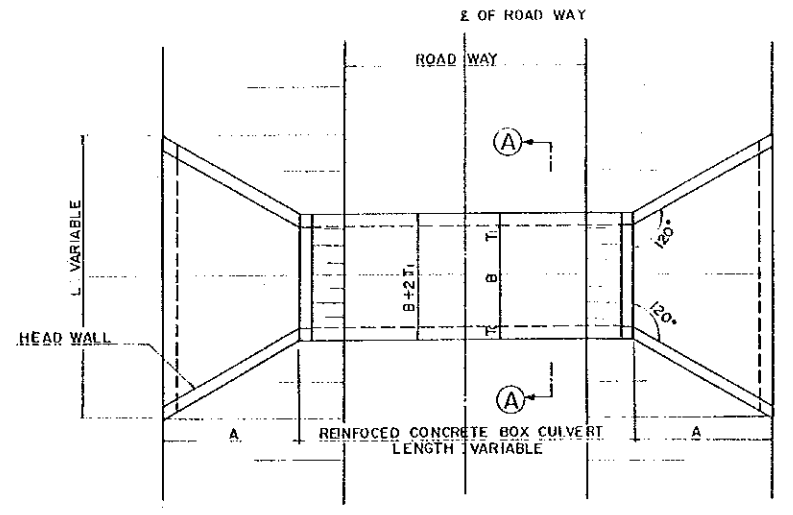
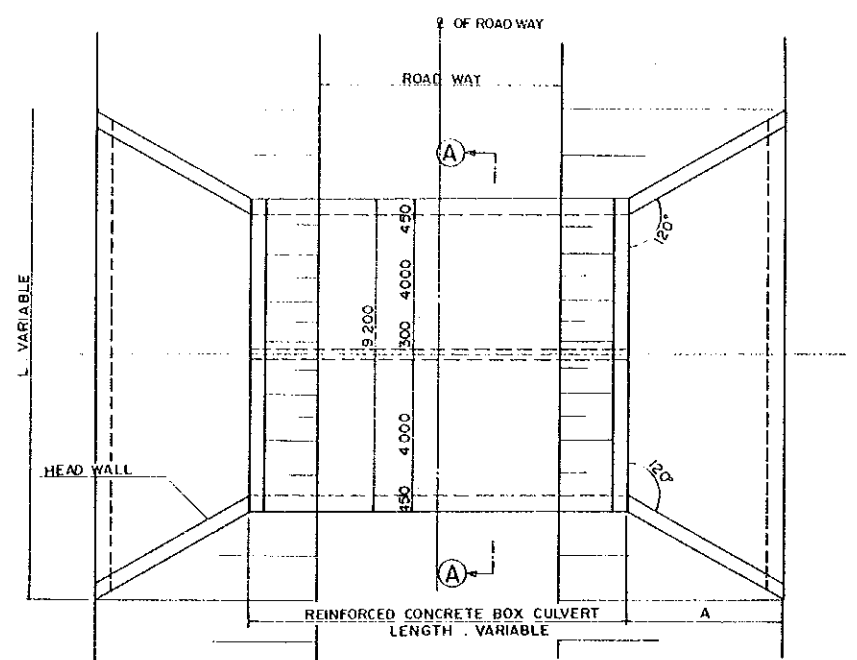
PROFILE SCALE A



CROSS SECTION (A) - (A) SCALE C

BOX CULVERT 2x(4.0x4.0)

BOX CULVERT (4.0x4.0, 3.0x3.0)

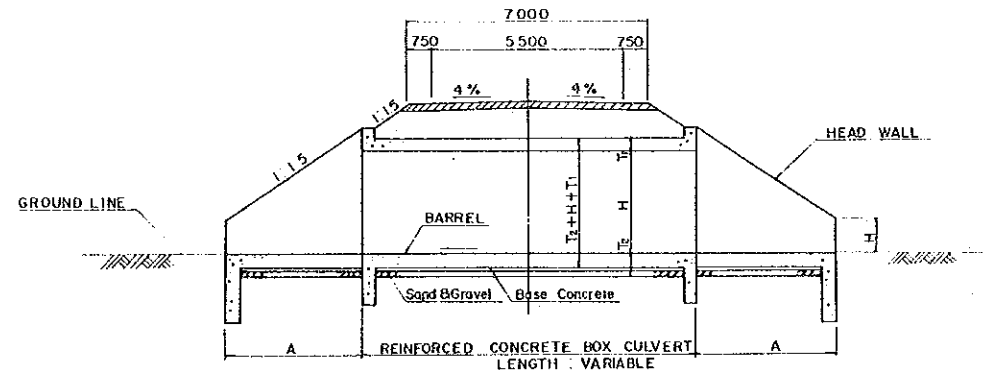
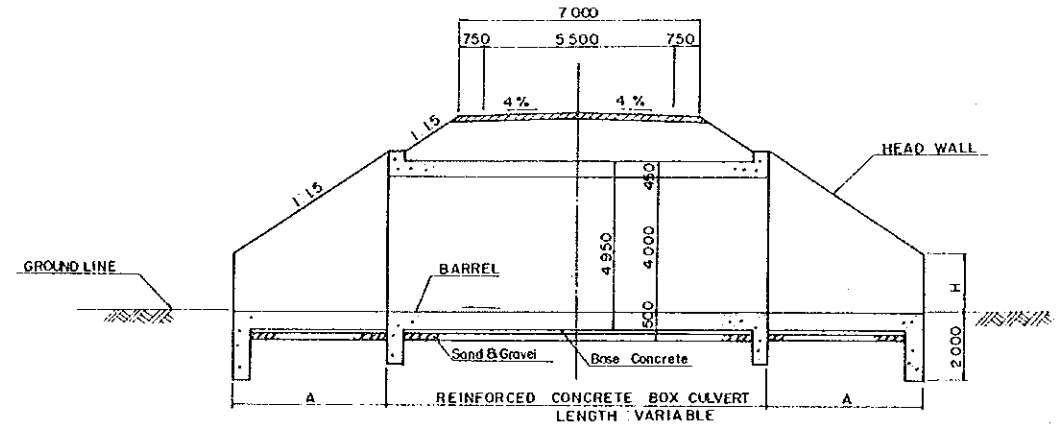


DIMENSION TABLE

B x H	T ₁	T ₂
4000 x 4000	400	450
3000 x 3000	350	400

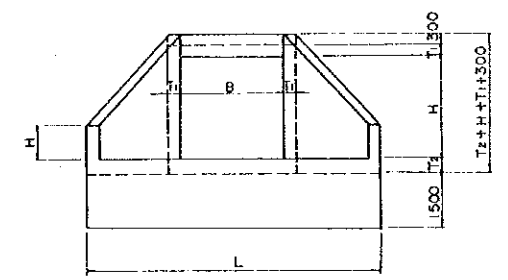
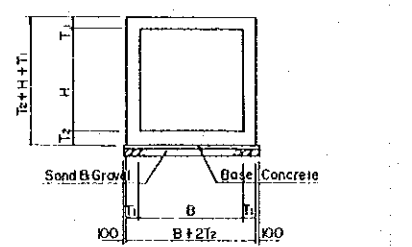
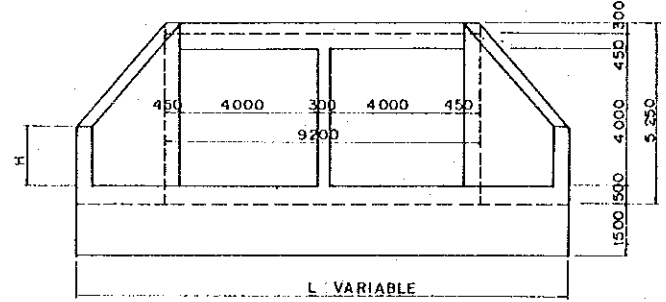
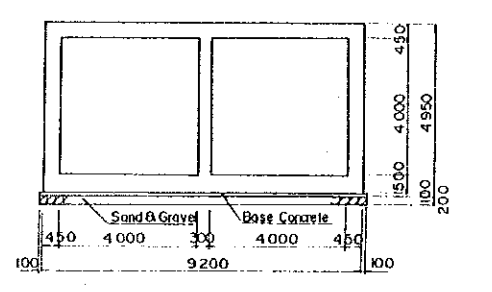
PLAN SCALE A

PLAN SCALE A



PROFILE SCALE A

PROFILE SCALE A

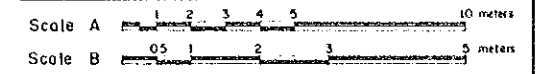


BARREL CROSS SECTION (A)-(A)
SCALE A

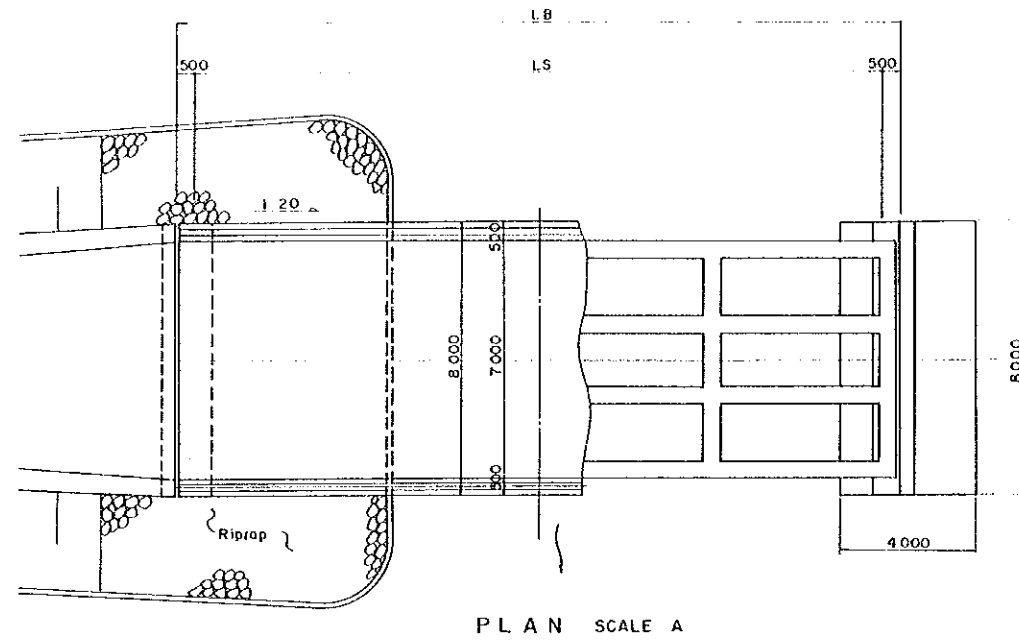
HEAD WALL FRONT VIEW
SCALE A

BARREL CROSS SECTION (A)-(A)
SCALE A

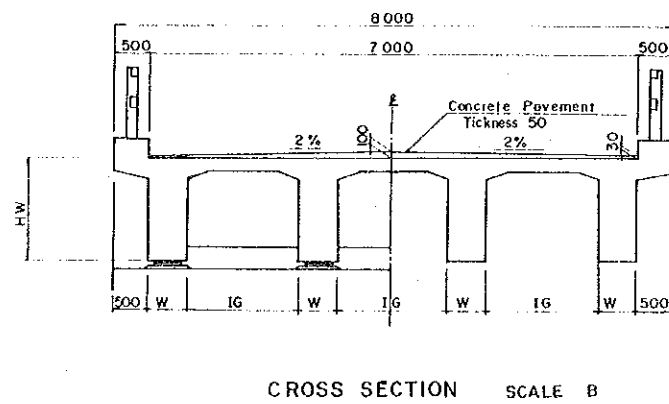
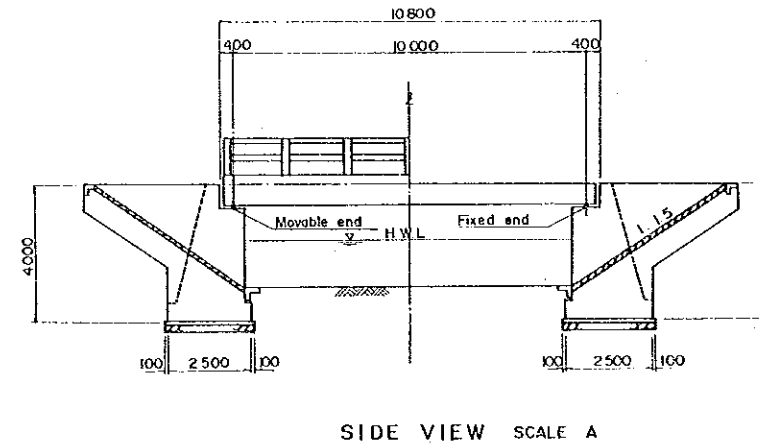
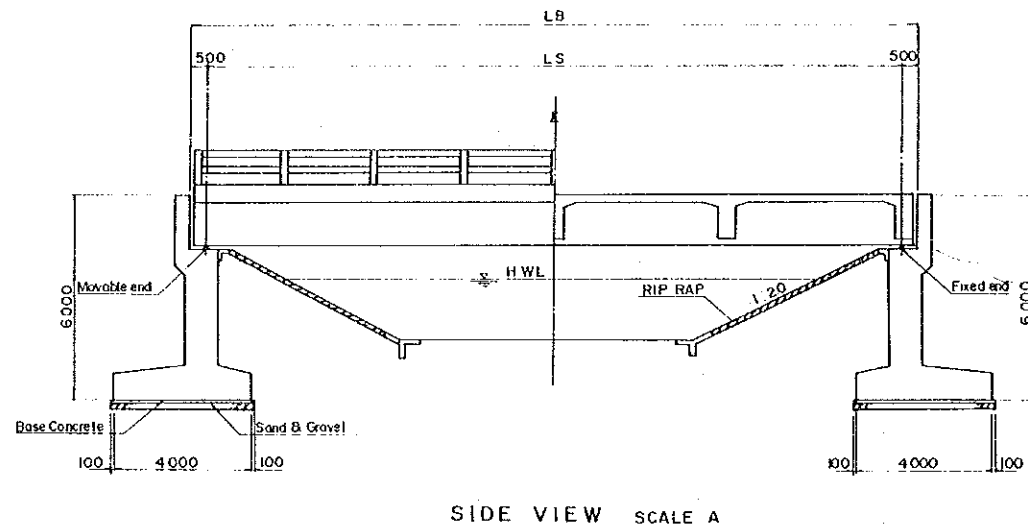
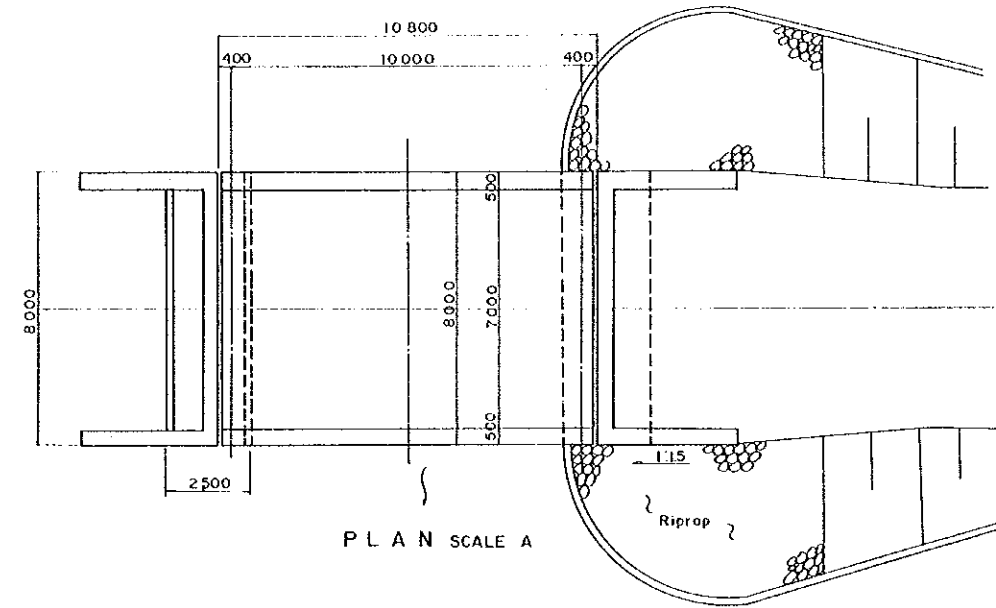
HEAD WALL FRONT VIEW
SCALE A



STANDARD RC-T-BEAM BRIDGE

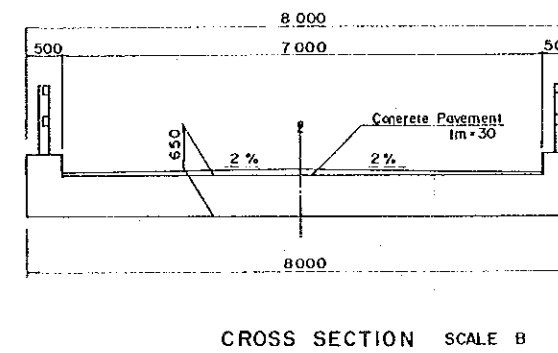


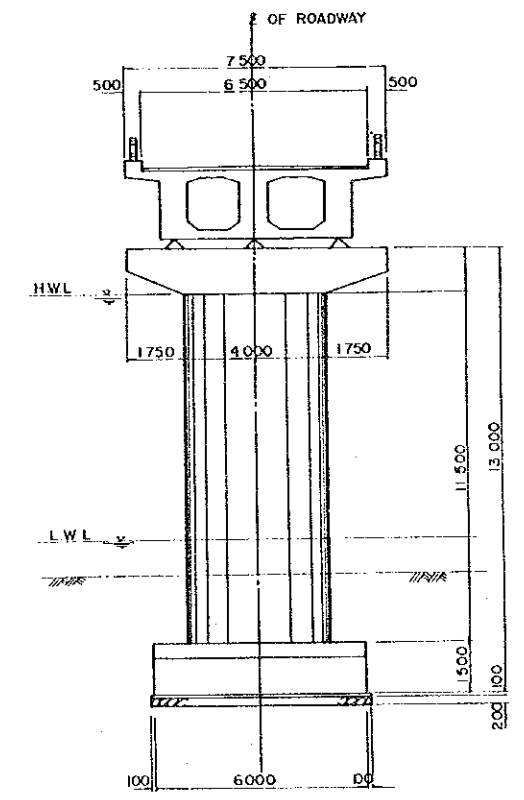
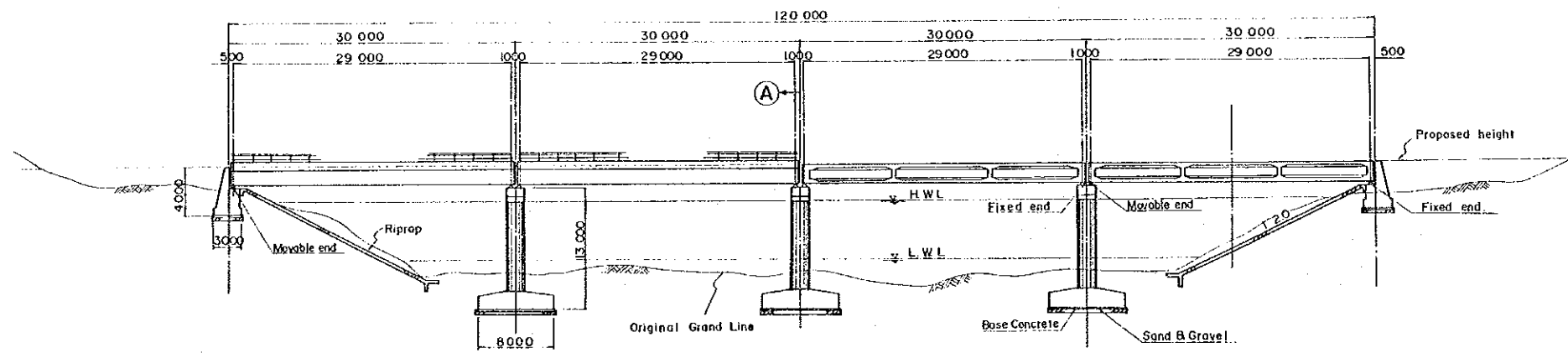
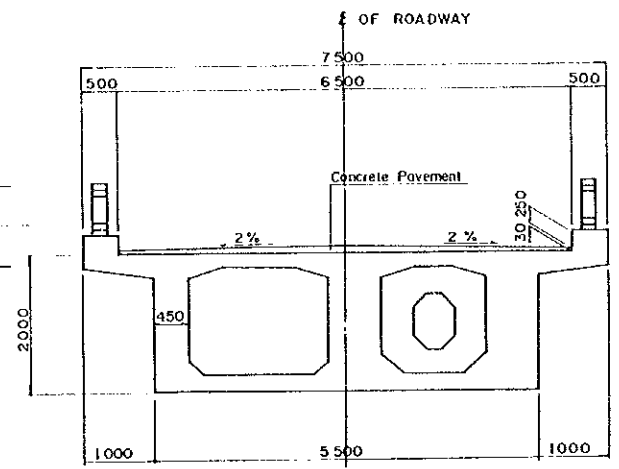
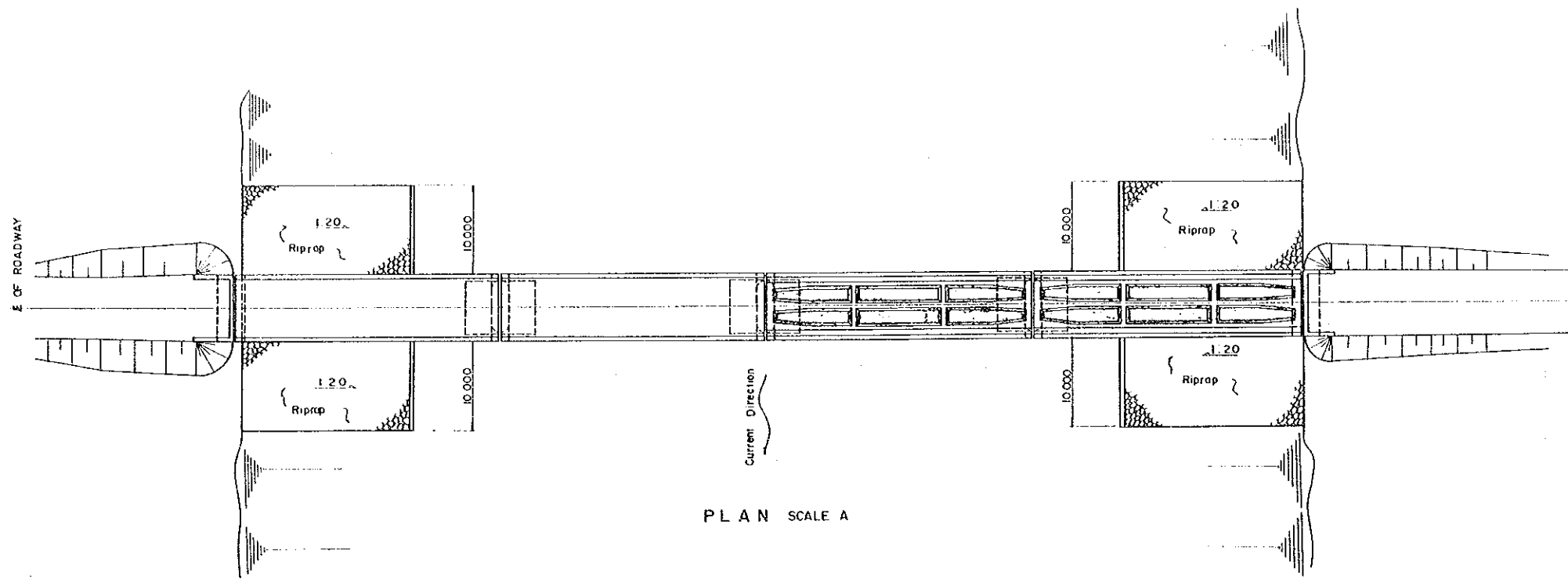
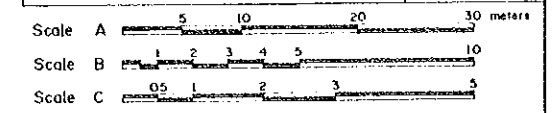
STANDARD RC-SLAB BRIDGE



DIMENSION TABLE : millimeters

SPAN LENGTH LS	BRIDGE LENGTH LB	HEIGHT OF WEB HW	WIDTH OF WEB W	INTERVAL OF GIRDER IG
20 000	21 000	1500	550	1600
25 000	26 000	1900	650	1500





JICA