

持出禁止

社会開発協力部

COMMISSION INTERNATIONALE D'AMÉNAGEMENT ET DE DÉVELOPPEMENT
DES TRANSPORTS

ROUTE TRANSAFRICAINNE
ETUDE DE FACILITER
OSANGANI-BANGASSOU
RAPPORT FINAL
VOL. 2

NOVEMBRE 1976

JAPAN INTERNATIONAL COOPERATION AGENCY

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COMMISSION ECONOMIQUE DES NATIONS UNIES POUR L'AFRIQUE
REPUBLIQUE DU ZAIRE

ROUTE TRANSAFRICAINE

ETUDE DE FACTIBILITE

KISANGANI-BANGASSOU

RAPPORT FINAL

VOL. 4

NOVEMBRE 1976

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団

20431

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


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GEOLOGIC & SOILS SYMBOLES

SYMBOLES GEOLOGIQUE ET DES SOLS

LEGEND

LEGENDE

| | | |
|--|---------------------------|--------------------------------|
|  | Laterite Borrow Pit | Fouille d'Emprunt des Latérite |
|  | Gravel Borrow Pit | Fouille d'Emprunt des Gravier |
|  | Point of Soil Exploration | Point d'Exploration des Sols |
| Sl. C. | Silt. Clay. | Vase, Argile |
| S. G. | Sand. Gravel | Gravier Sableur |
| L | Laterite | Latérite |
|  | Outcrop of Limonite | Affleurement des Limonites |
|  | Outcrop of Gneiss | Affleurement des Gneiss |
|  | Outcrop of Granite | Affleurement des Granite |
|  | Surface Soil | Sol Supérficiel |
| | Silt | Vase |
| | Sand | Sable |
| | Clay | Argile |
| | Gravel | Gravier |
| | Sandy Silt | Vase Sableux |
| | Clayey Sand | Sable Argileux |
| | Gravelly Clay | Gravier Argileux |
| | Laterite | Latérite |
| | Sandstone | Grés |
| | Weathered Sandstone | Grés Altéré |

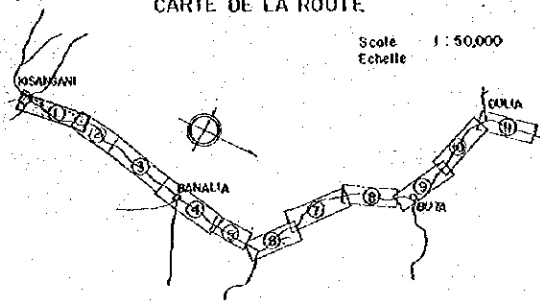
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

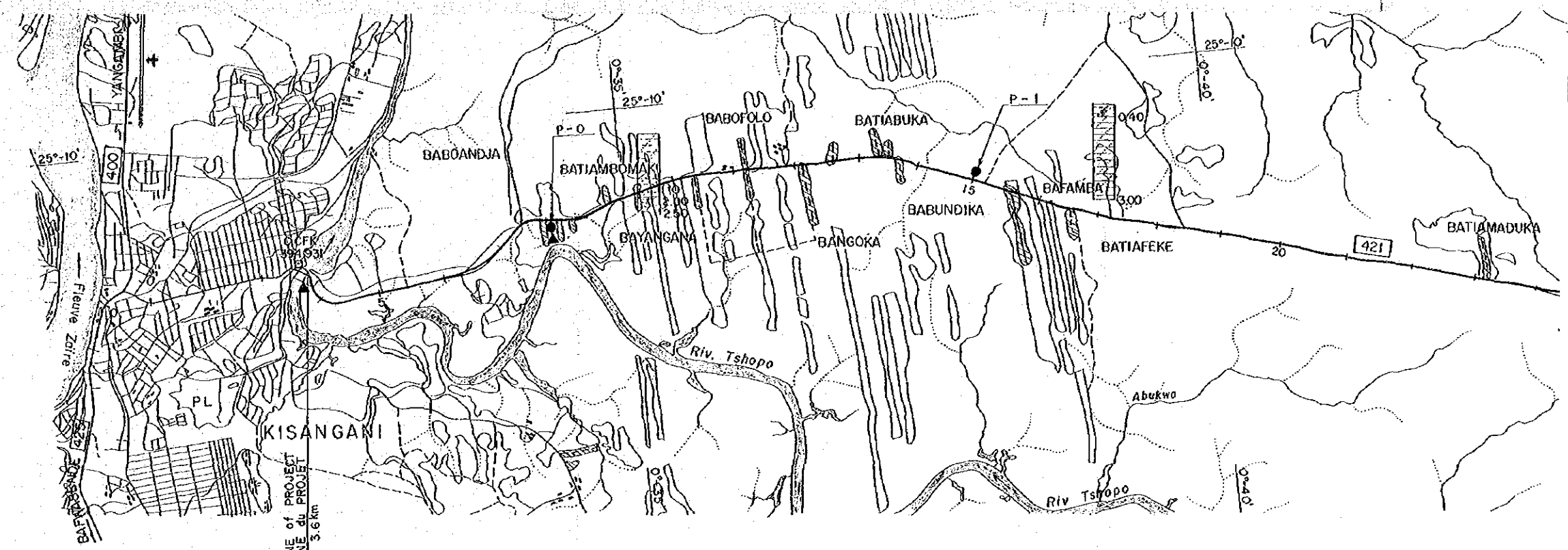
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Scale
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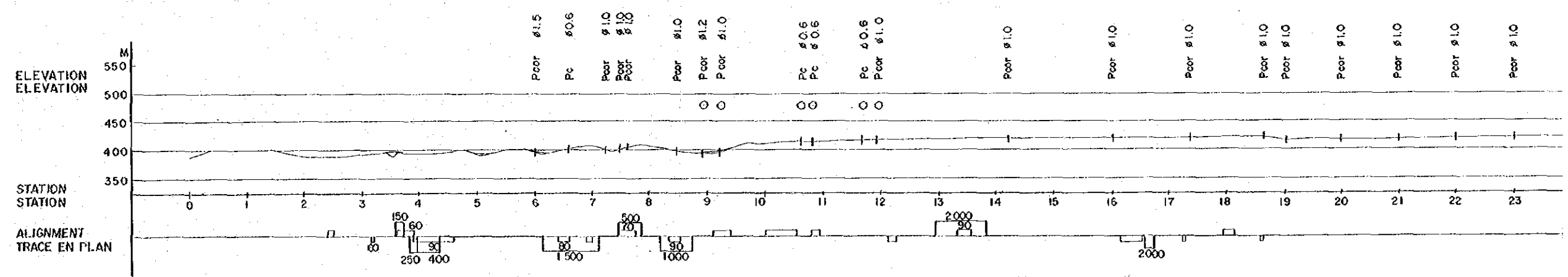
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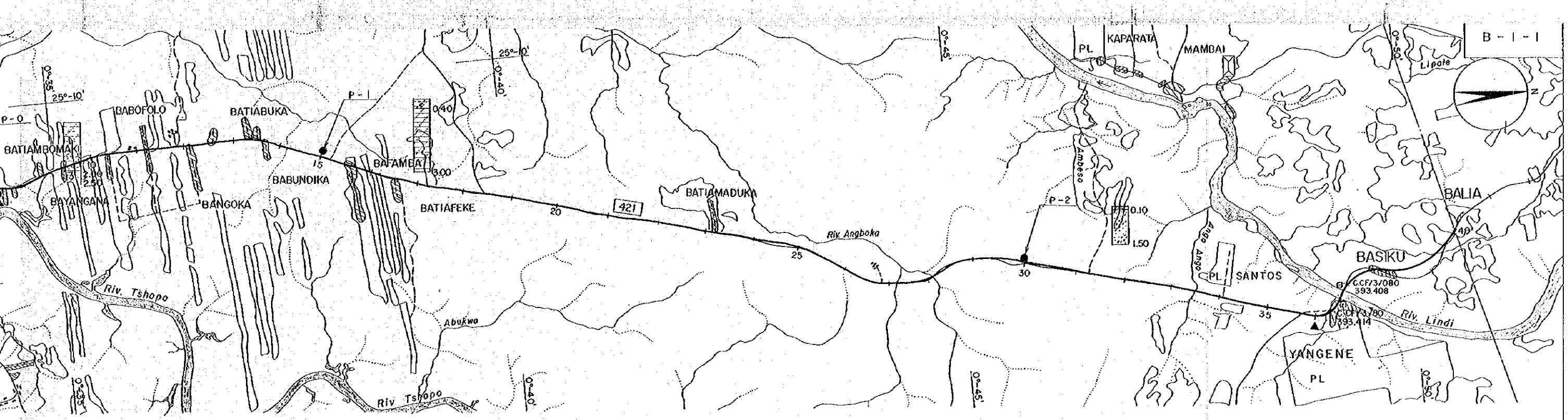
- Ferry / Bac
- Railway / Chemin de fer
- Village / Village
- House / Maison
- Existing Road / Route Actuelle
- Improved Road / Route Améliorée
- River / Rivière
- Highland / Colline
- Plantation / Plantation PL
- Lowland / Terres Basses



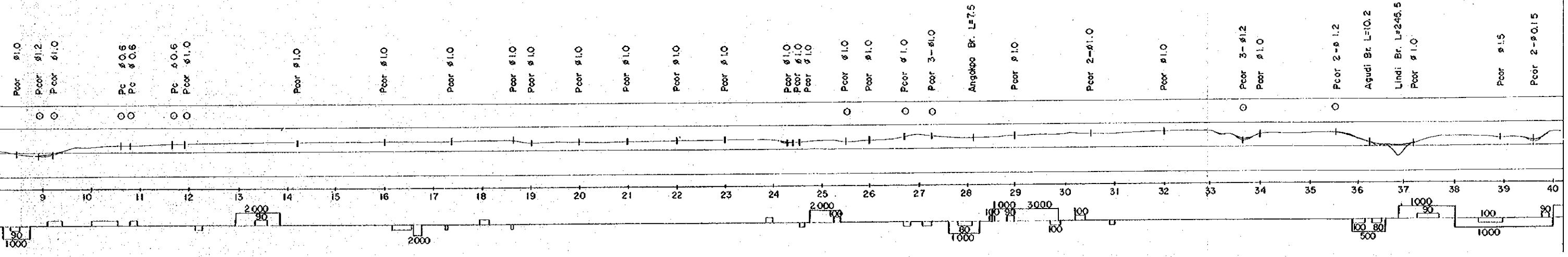
ORIGINE of PROJECT
ORIGINE du PROJET
3.6 km

Si. C.
SECTION 10 / TRONÇON 10





Si. C.
SECTION 10 / TRONÇON 10



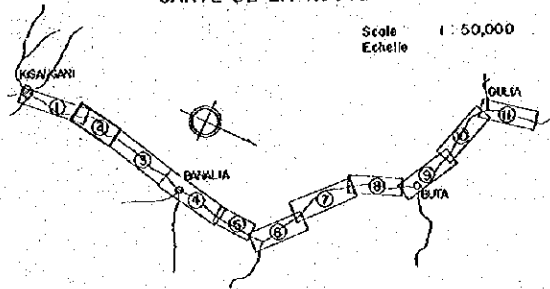
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ROUTE TRANSAFRICAIN

Section
Tronçon

KISANGANI - BANGASSOU

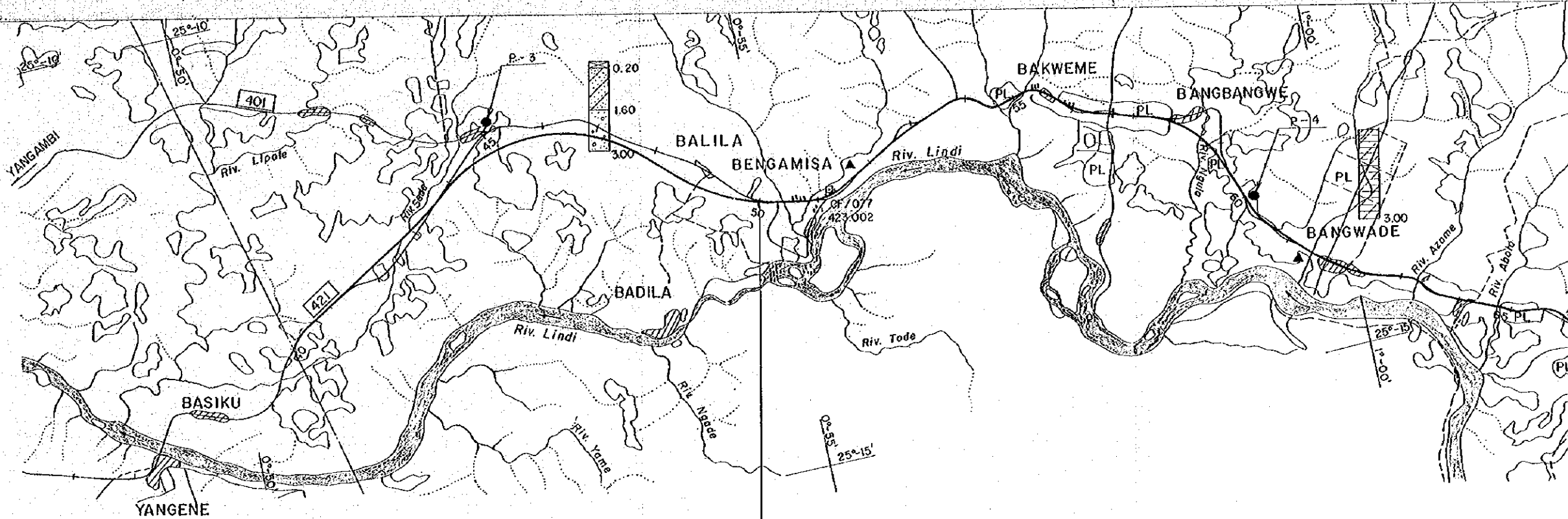
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CARTE DE LA ROUTE

Scale
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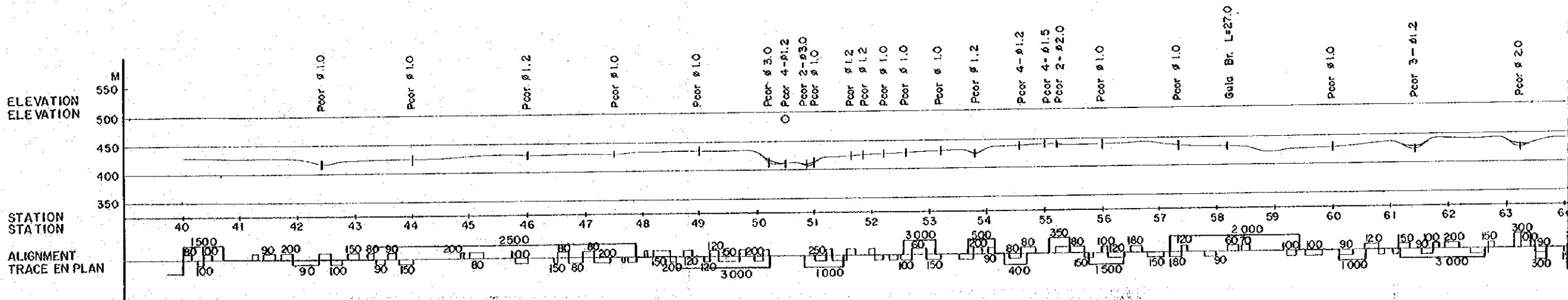
LEGEND / LEGENDE

- Ferry / Bac
- Railway / Chemin de fer
- Village / Village
- House / Maison
- Existing Road / Route Actuelle
- Improved Road / Route Améliorée
- River / Rivière
- Highland / Colline
- Plantation / Plantation PL
- Lowland / Terres Bosses



SECTION 10 / TRONÇON 10

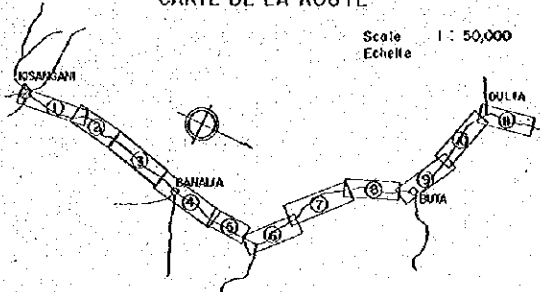
SI. C



TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAIN
Section
Tronçon
KISANGANI - BANGASSOU

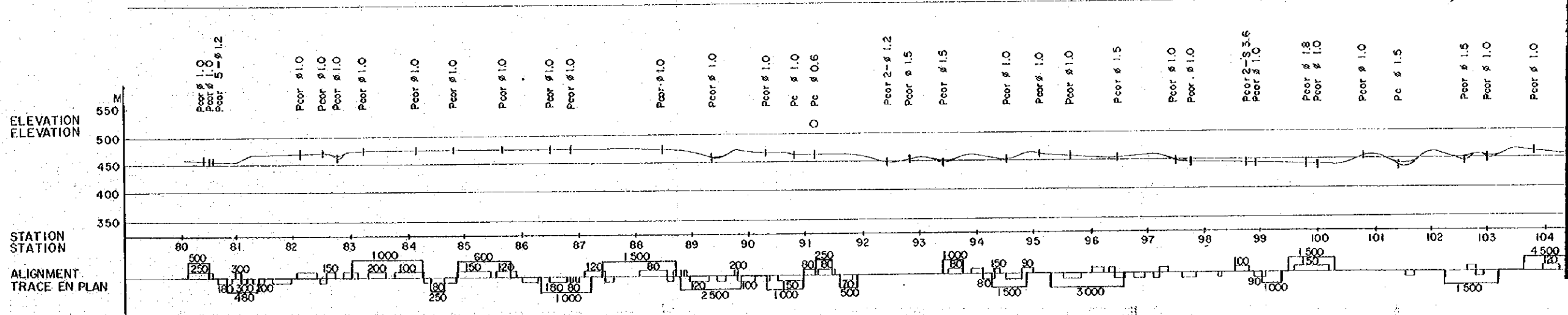
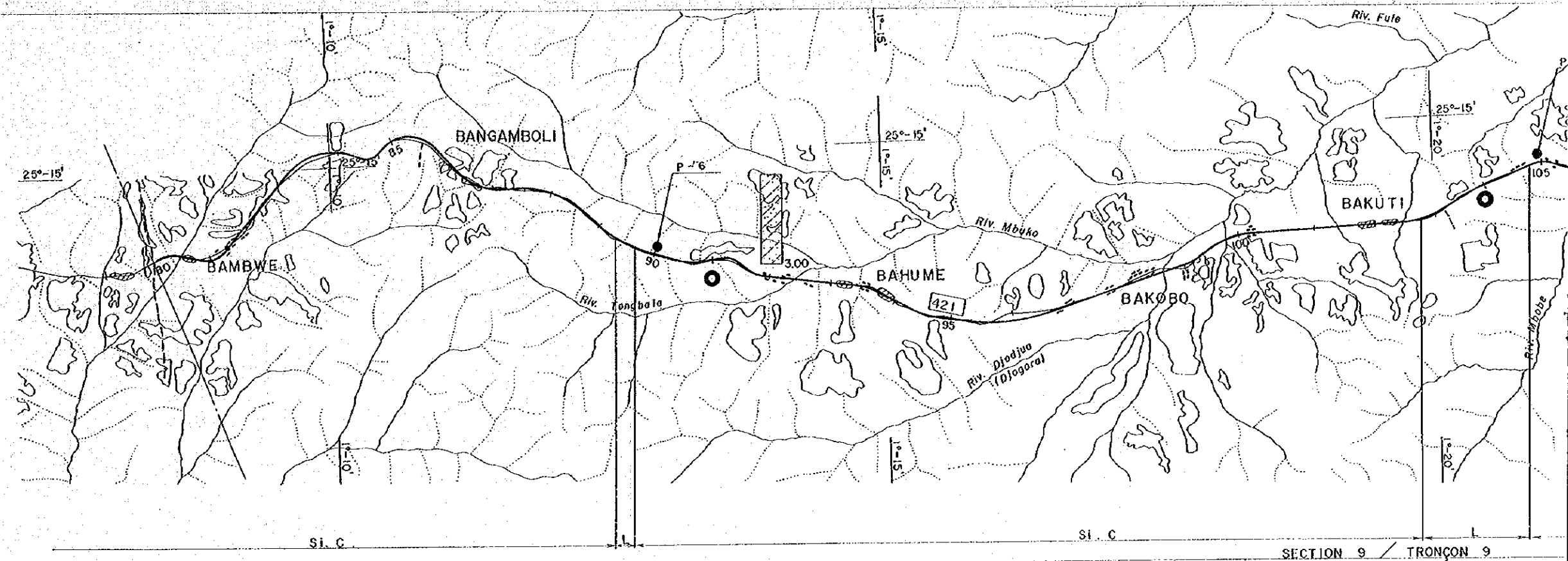
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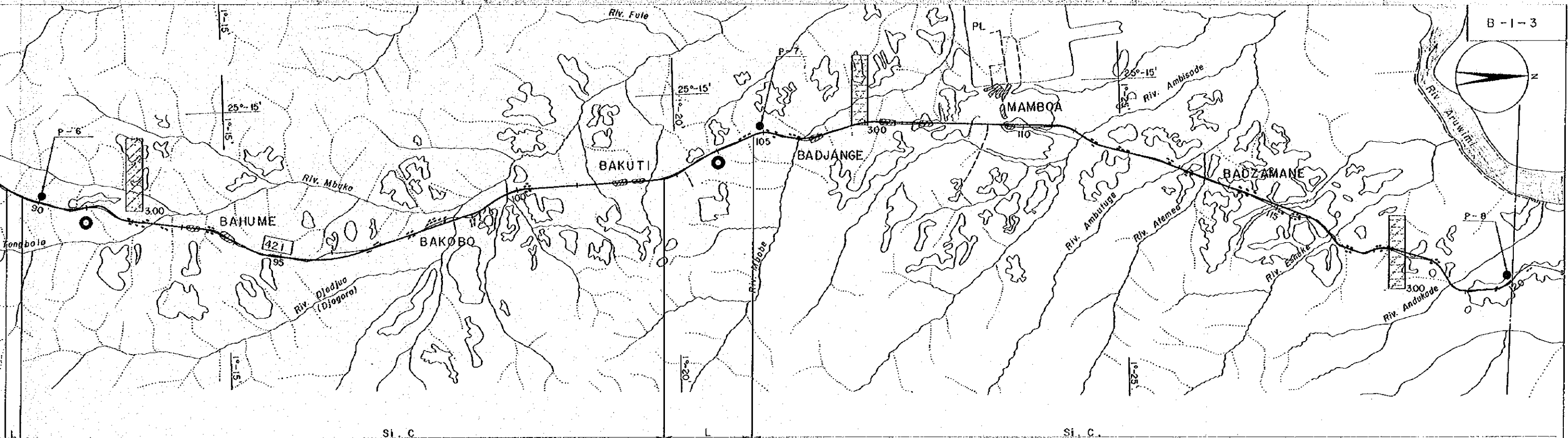
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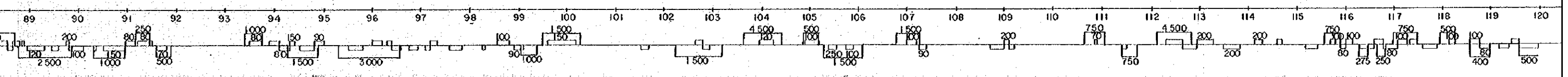
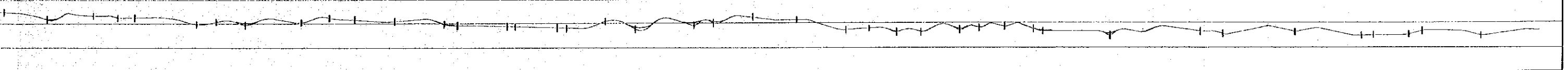
- Ferry / Bac
- Railway / Chemin de fer
- Village / Village
- House / Maison
- Existing Road / Route Actuelle
- Improved Road / Route Améliorée
- River / Rivière
- Highland / Colline
- Plantation / Plantation PL
- Lowland / Terres Rosses





SECTION 9 / TRONÇON 9

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|------------|------------|------------|--------------|------------|--------------|
| Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 0.6 | Peer 2-# 1.2 | Peer # 1.5 | Peer # 1.5 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 1.5 | Peer # 1.0 | Peer # 1.0 | Peer 2-# 3.6 | Peer # 1.0 | Peer # 1.8 | Peer # 1.0 | Peer # 1.0 | Peer # 1.5 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 3.0 | Peer # 1.0 | Peer # 1.2 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer # 1.0 | Peer 3-# 1.8 | Peer 2-# 1.5 | Peer 2-# 1.5 | Peer # 1.0 | Peer # 1.8 | Peer # 1.0 | Peer 2-# 1.0 | Peer # 1.0 | Peer 2-# 1.5 |
|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|------------|------------|------------|--------------|------------|--------------|



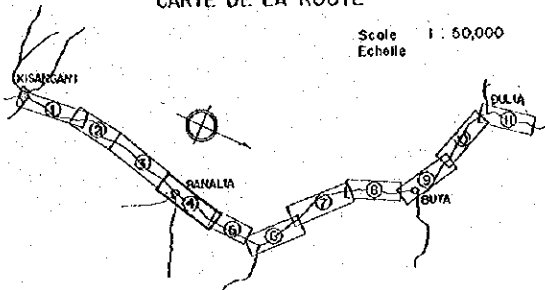
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

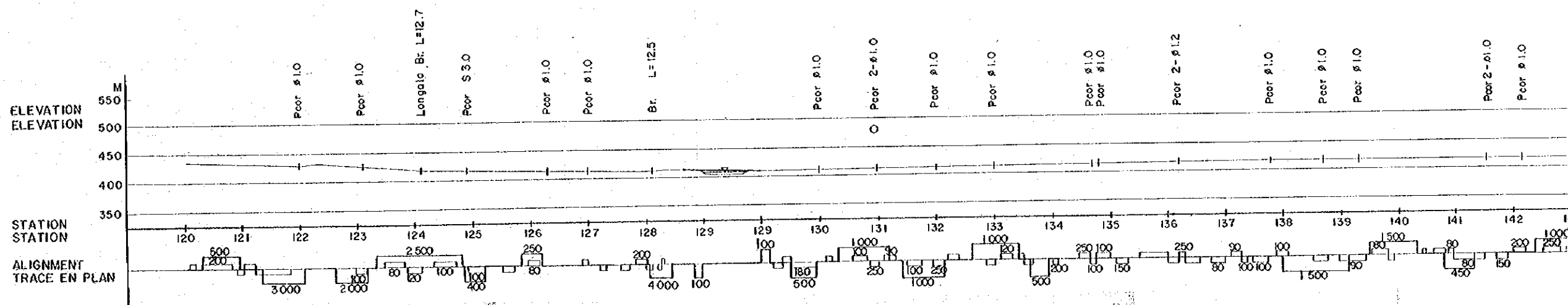
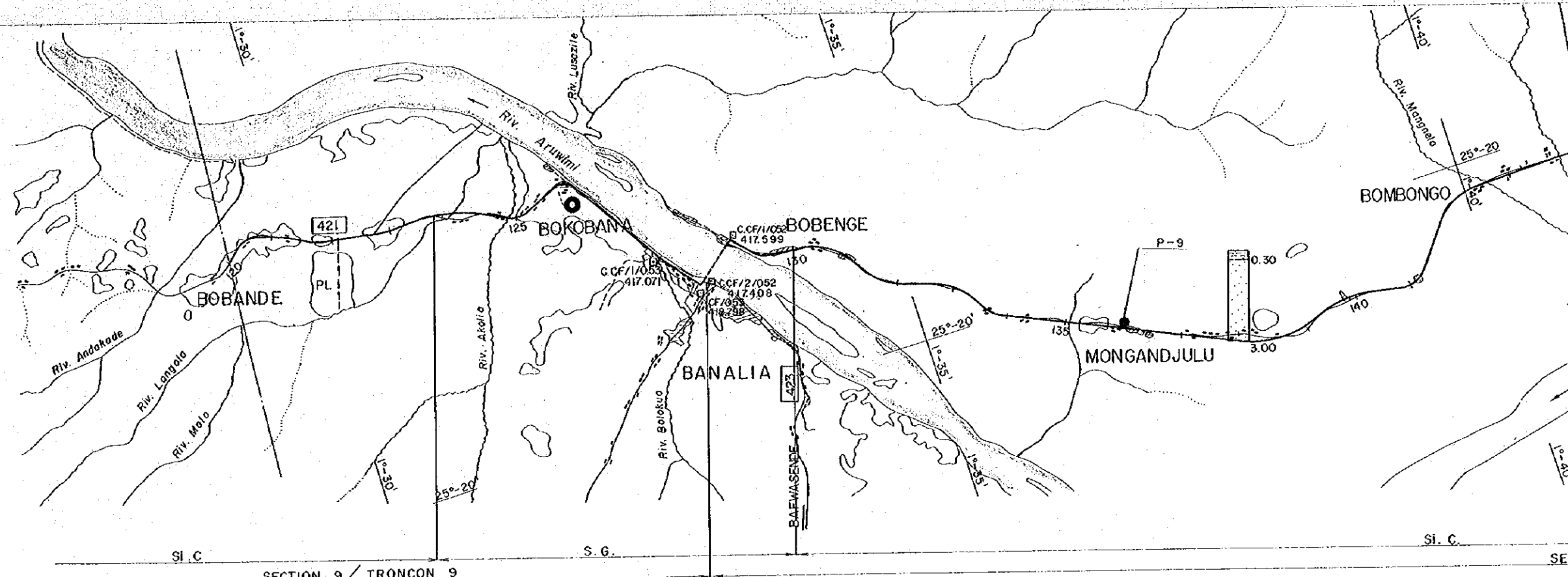
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CARTE DE LA ROUTE

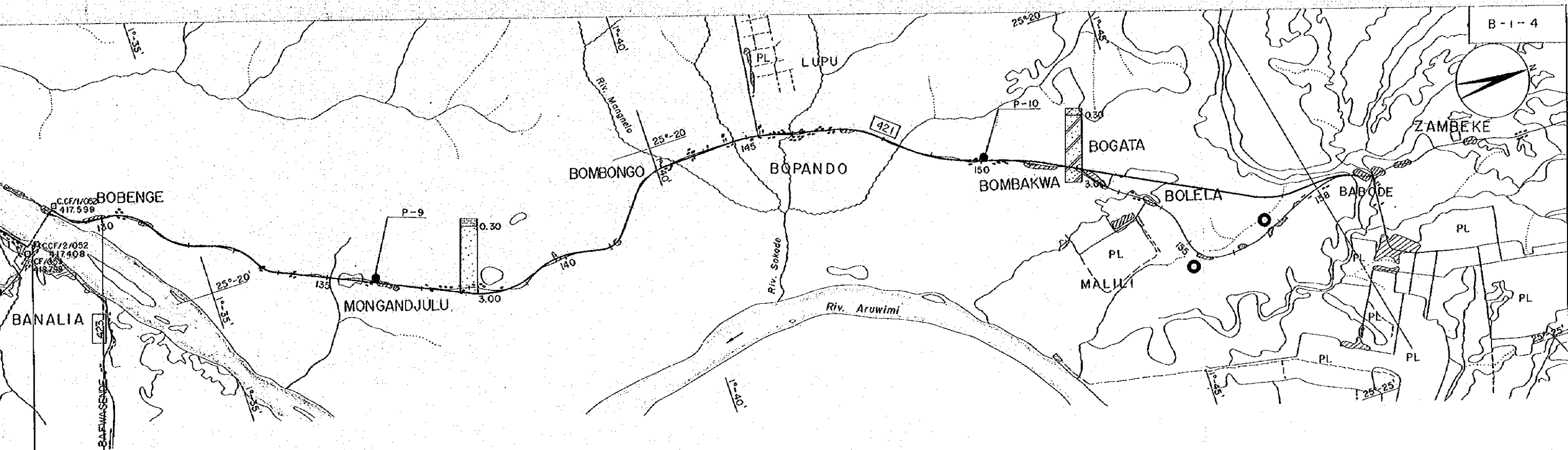
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LEGEND / LEGENDE

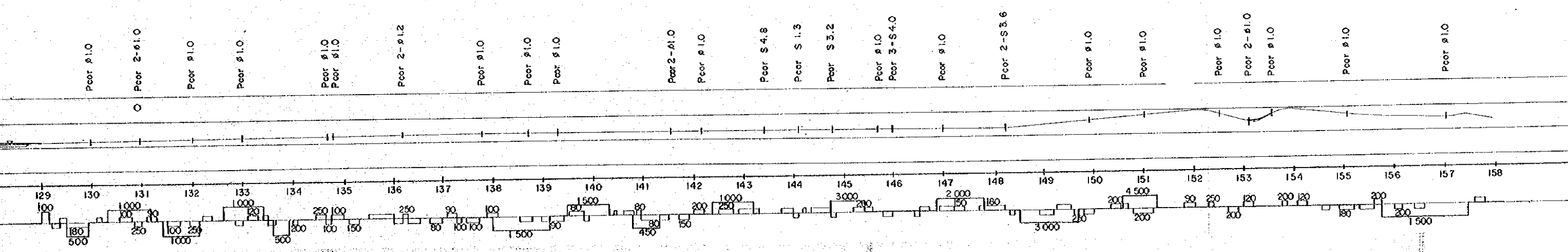
- | | | |
|---------------------------------|---------------------------|---------------------------|
| Ferry / Bac | --- River / Rivière | PL |
| Railway / Chemin de fer | ----- Highland / Colline | ○ Lowland / Terres Basses |
| Village / Village | ▨ Plantation / Plantation | |
| House / Maison | ••••• | |
| Existing Road / Route Actuelle | — | |
| Improved Road / Route Améliorée | — | |





B-1-4

Si. C. SECTION 8 / TRONÇON 8



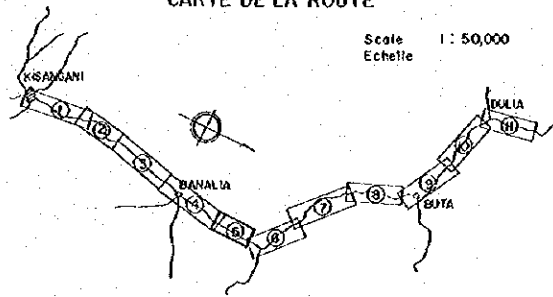
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

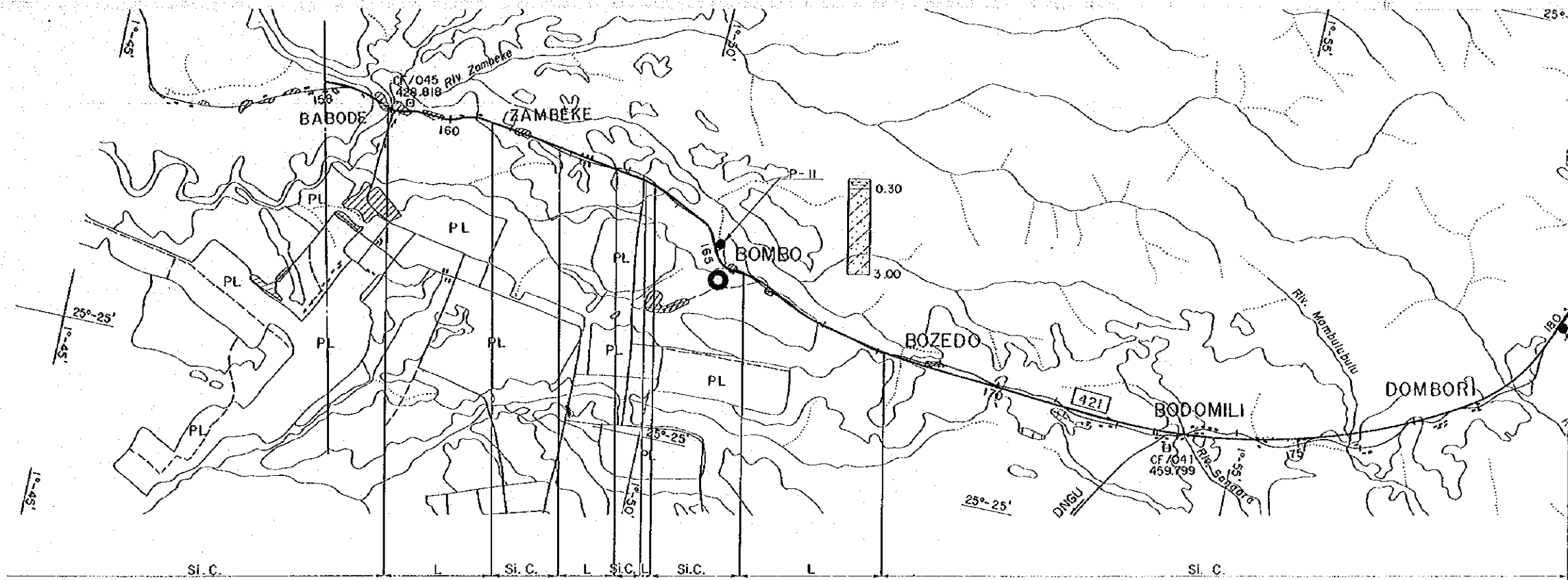
ROUTE MAP
CARTE DE LA ROUTE

Scale
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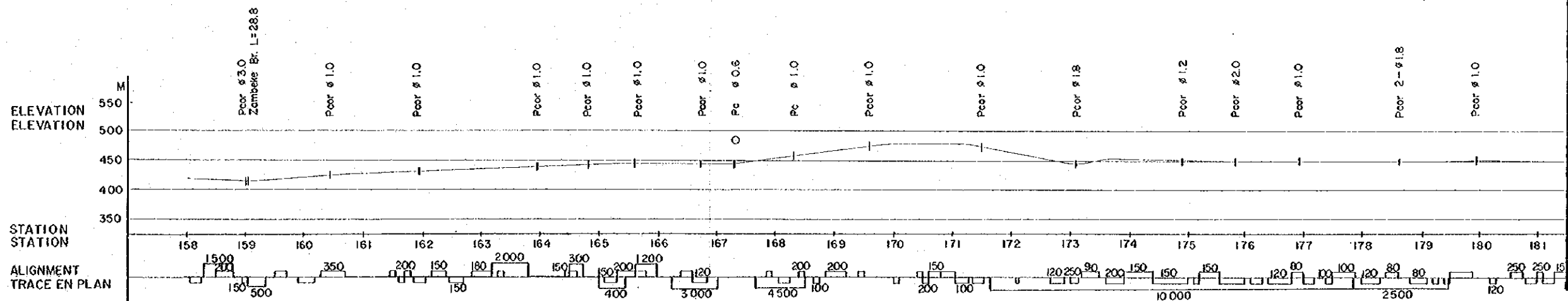


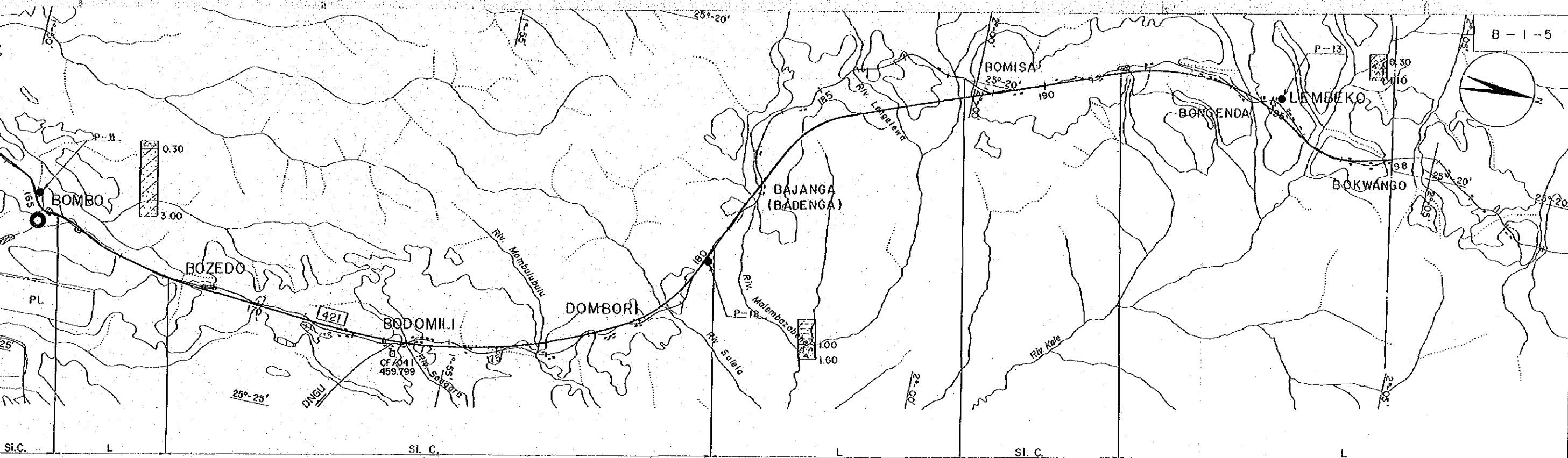
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | ----- | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | | Lowland / Terres Basses | |
| Existing Road / Route Achèvee | --- | | |
| Improved Road / Route Améliorée | --- | | |

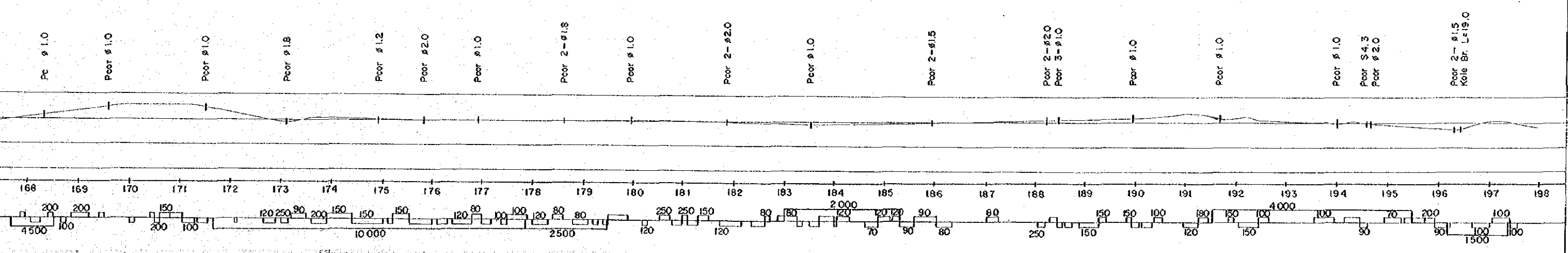


SECTION 8 / TRONÇON 8





SECTION 8 / TRONÇON 8



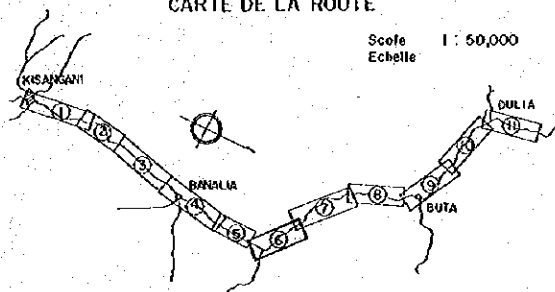
TRANSFRICAN HIGHWAY
ROUTE TRANSFRICAINE

Section
Tronçon

KISANGANI-BANGASSOU

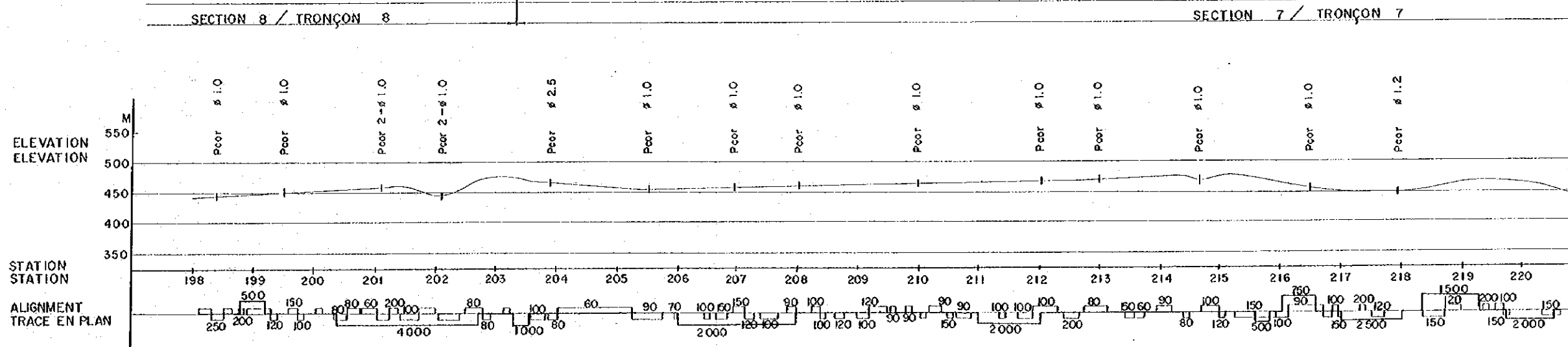
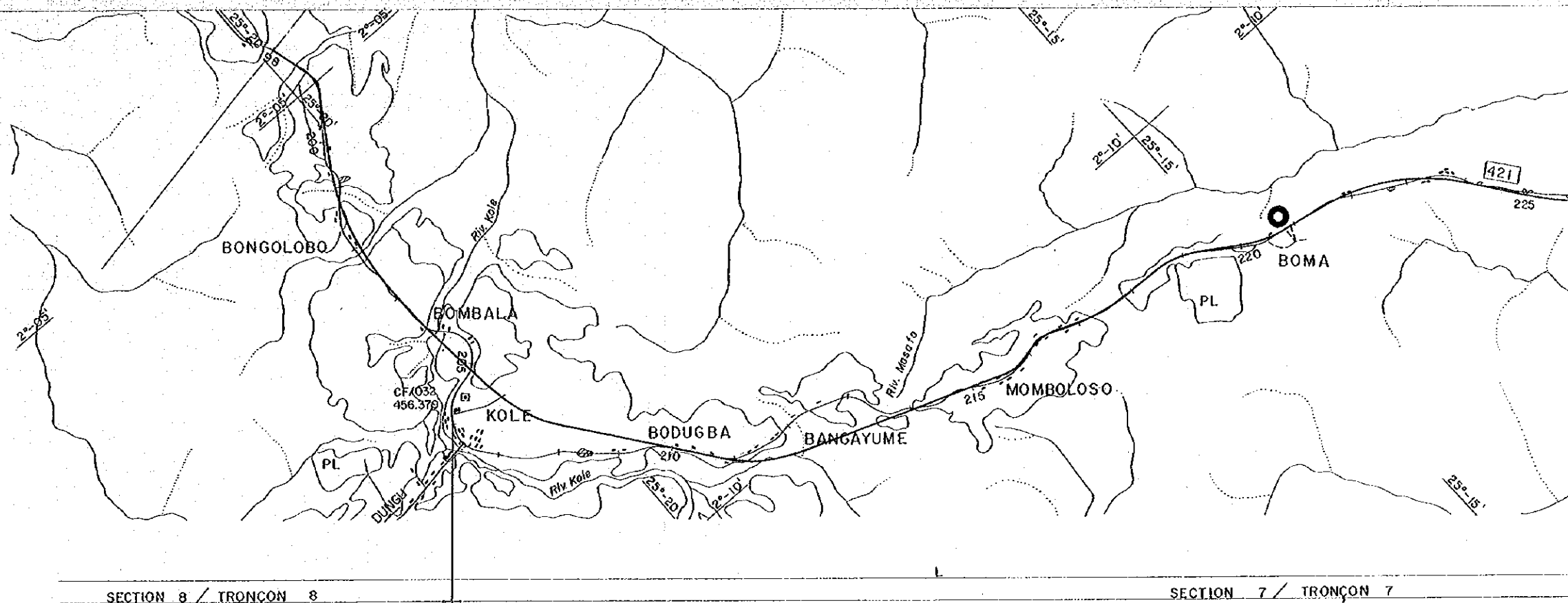
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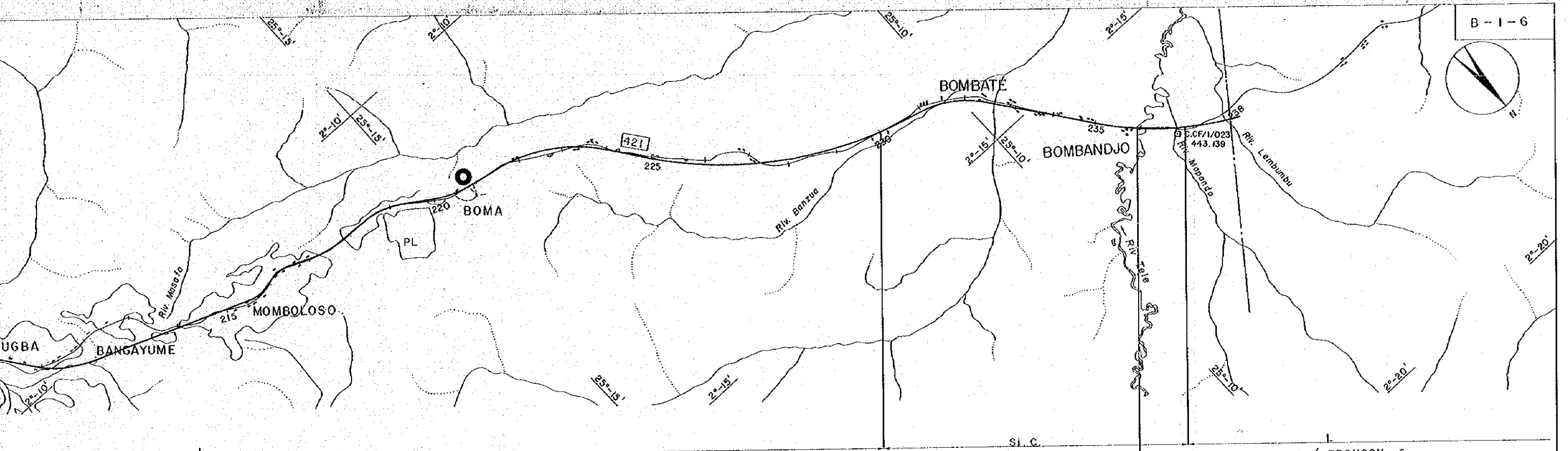
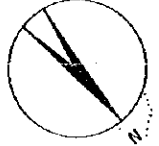
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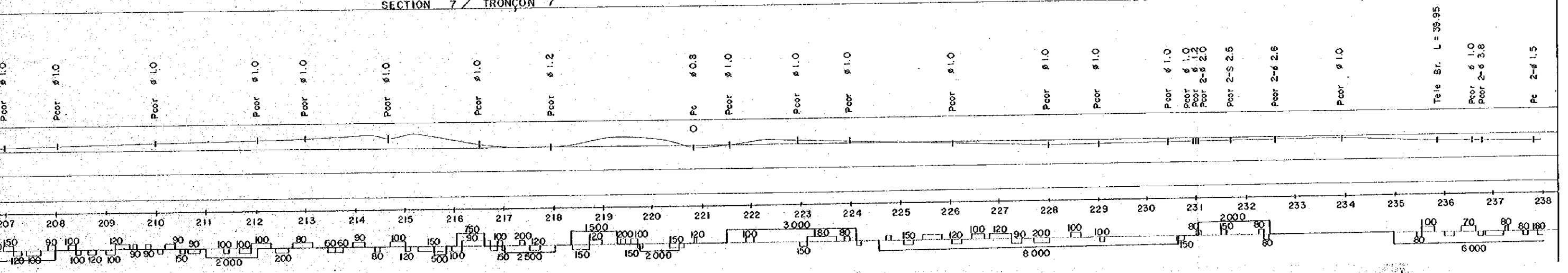
- | | | | |
|---------------------------------|------|-------------------------|----|
| Ferry / Dac | --- | River / Rivière | |
| Railway / Chemin de fer | ---- | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | | Lowland / Terres Bosses | |
| Existing Road / Route Actuelle | | | |
| Improved Road / Route Améliorée | | | |





SECTION 7 / TRONÇON 7

SECTION 6 / TRONÇON 6



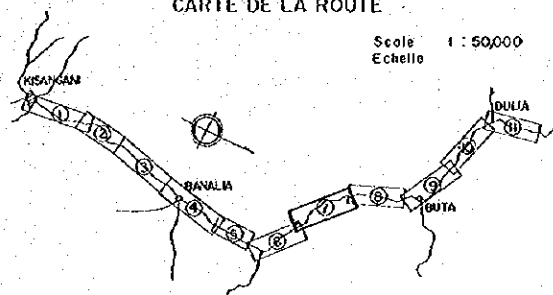
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ROUTE TRANSFRICAINE

Section
Trançon

KISANGANI - BANGASSOU

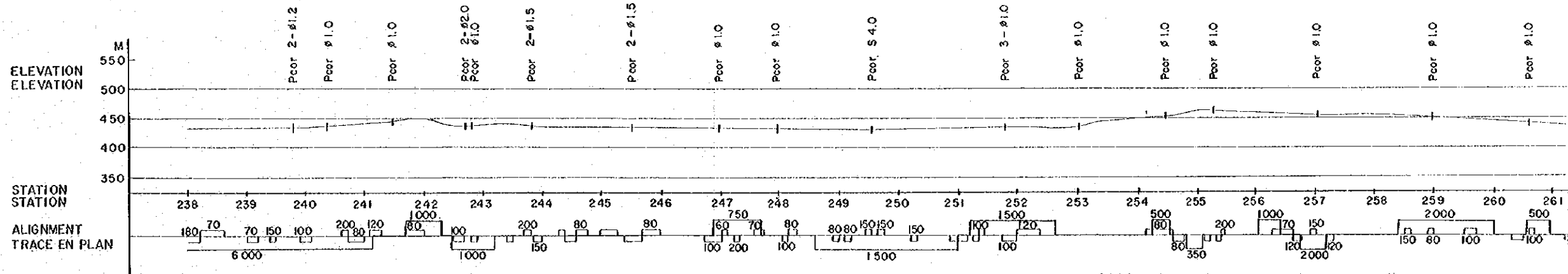
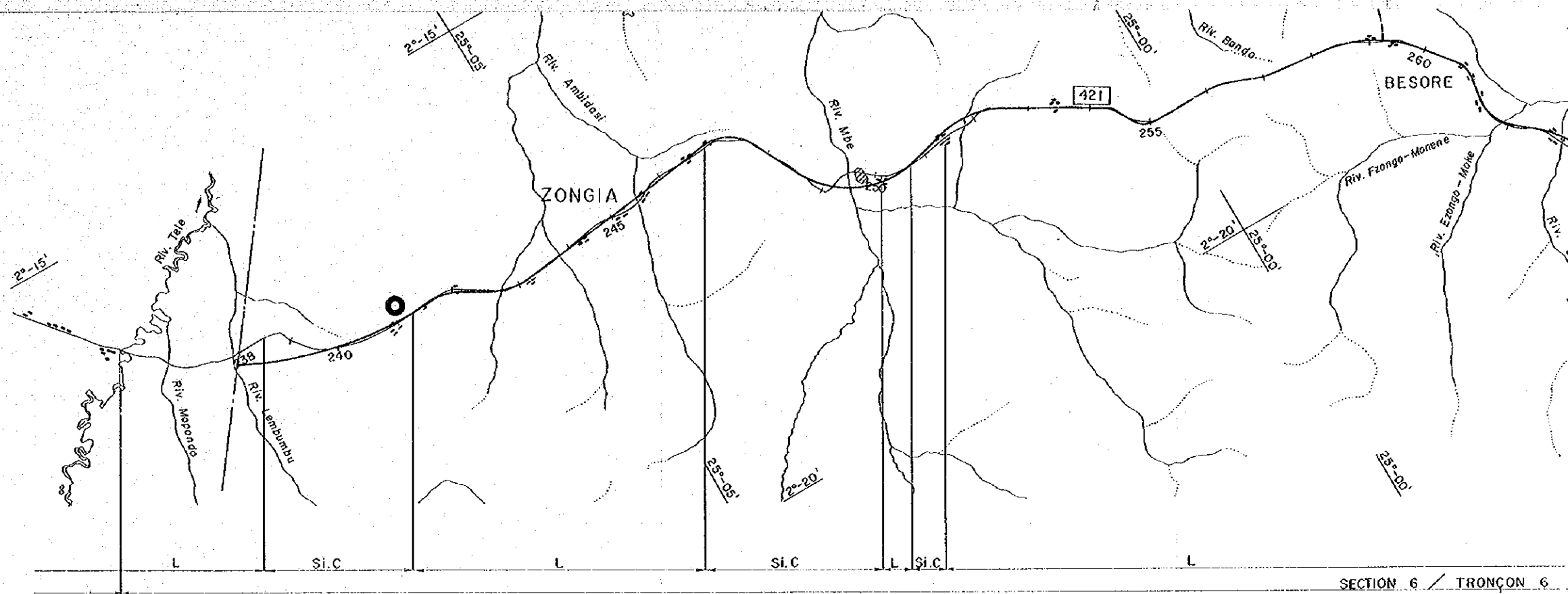
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CARTE DE LA ROUTE

Scale
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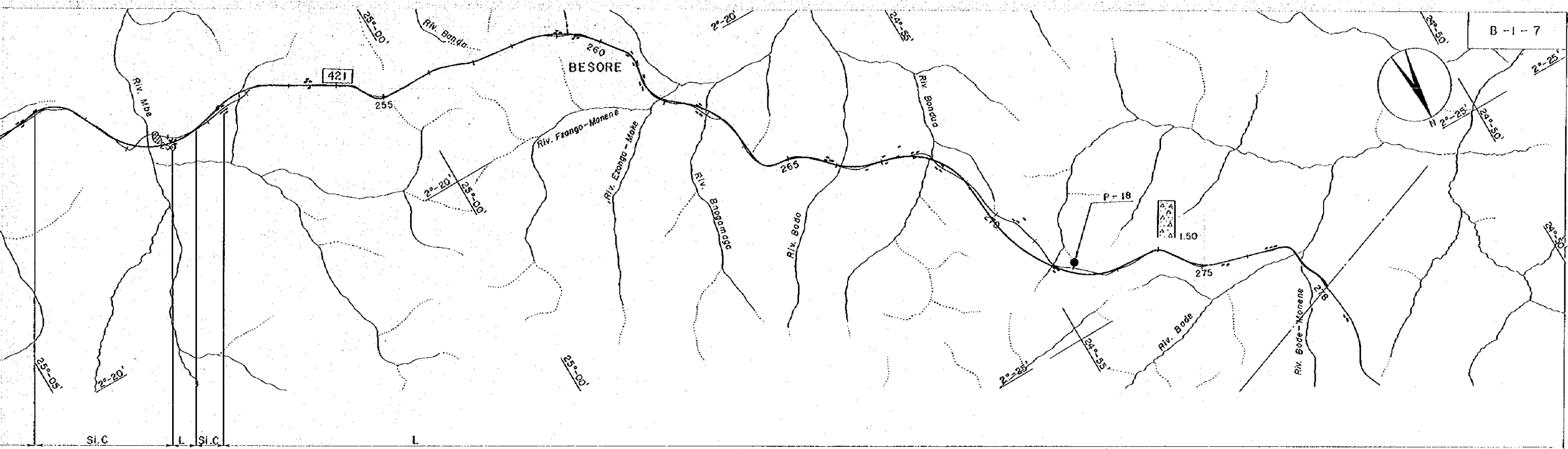


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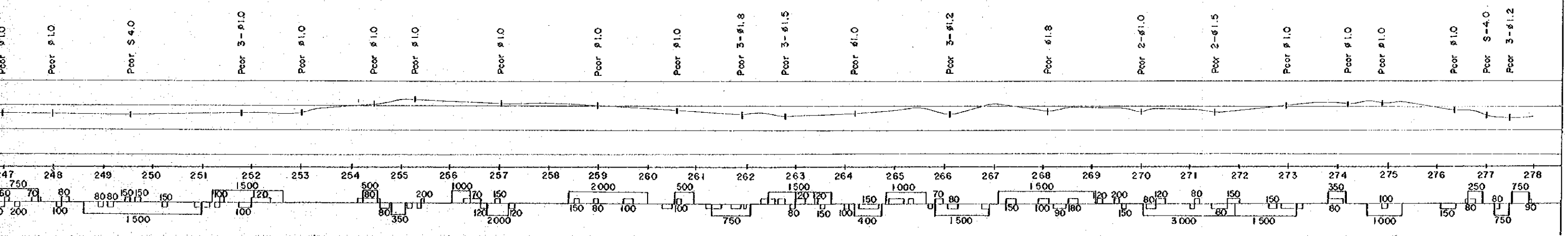
- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | | Heightland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | | Lowland / Terres Basses | |
| Existing Road / Route Existante | --- | | |
| Improved Road / Route Améliorée | --- | | |



SECTION 6 / TRONÇON 6



SECTION 6 / TRONÇON 6



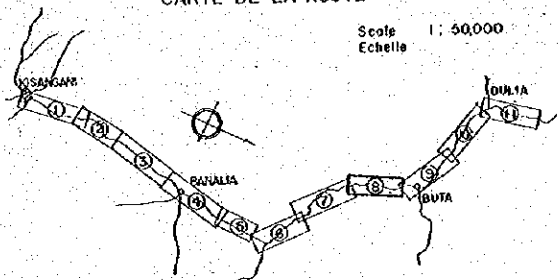
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAIN

Section
Tronçon

KISANGANI - BANGASSOU

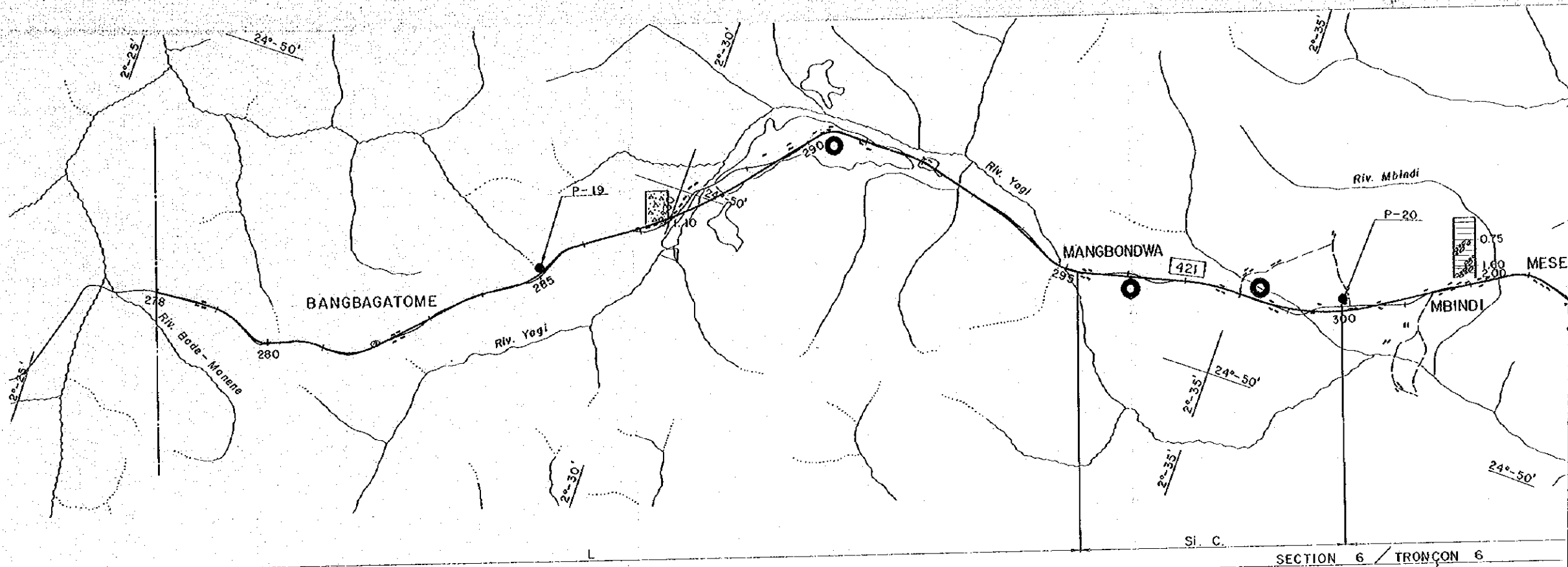
ROUTE MAP
CARTE DE LA ROUTE

Scale
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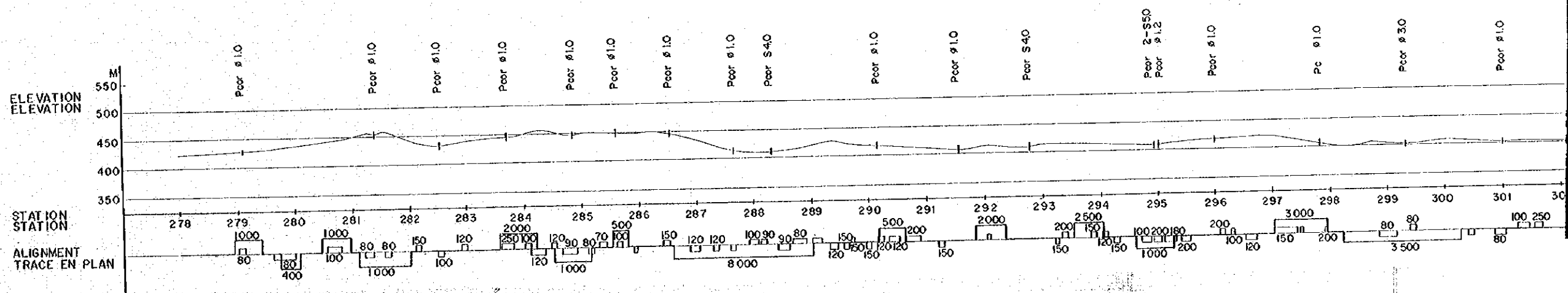


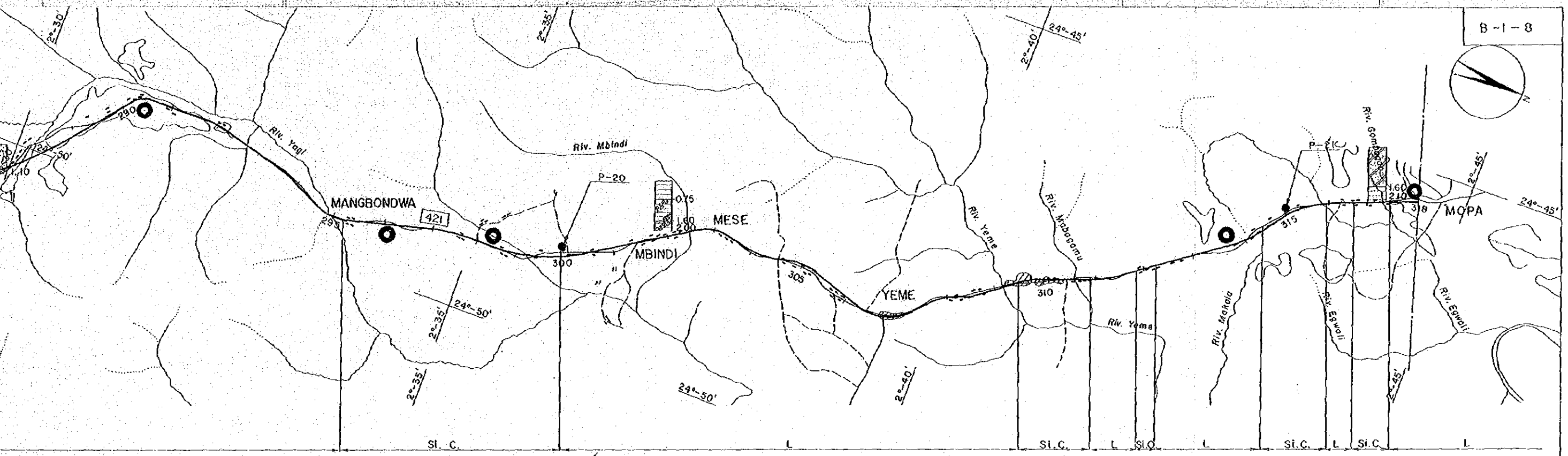
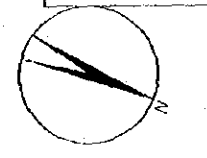
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | --- | | |
| Improved Road / Route Améliorée | --- | | |



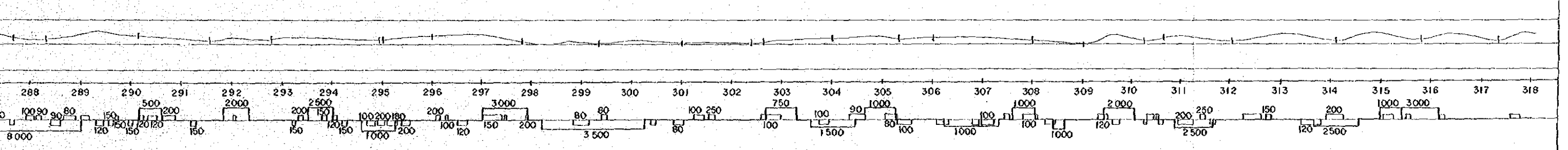
SECTION 6 / TRONÇON 6





SECTION 6 / TRONÇON 6

| | | | | | | | | | | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|--------------------------|-----------|---------|-----------|-----------|----------------------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-------------|-----------|
| Peer #1.0 | Peer #4.0 | Peer #1.0 | Peer #1.0 | Peer #4.0 | Peer 2-#5.0 Peer #1.2 | Peer #1.0 | Pc #1.0 | Peer #3.0 | Peer #1.0 | Peer 2-#1.5 Peer 2-#1.5 | Peer #1.0 | Peer #1.0 | Peer #1.0 | Peer #1.0 | Peer #1.0 | Peer #2.0 Peer #2.5 | Peer #1.0 | Peer #1.0 | Peer 3-#1.5 | Peer #2.0 |
|-----------|-----------|-----------|-----------|-----------|--------------------------|-----------|---------|-----------|-----------|----------------------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-------------|-----------|



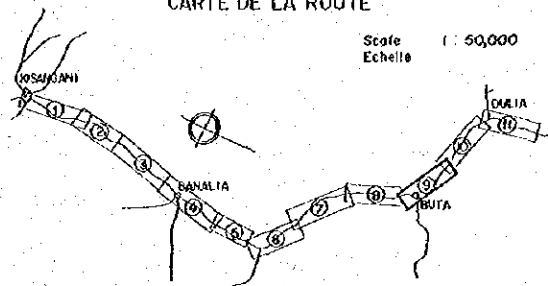
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

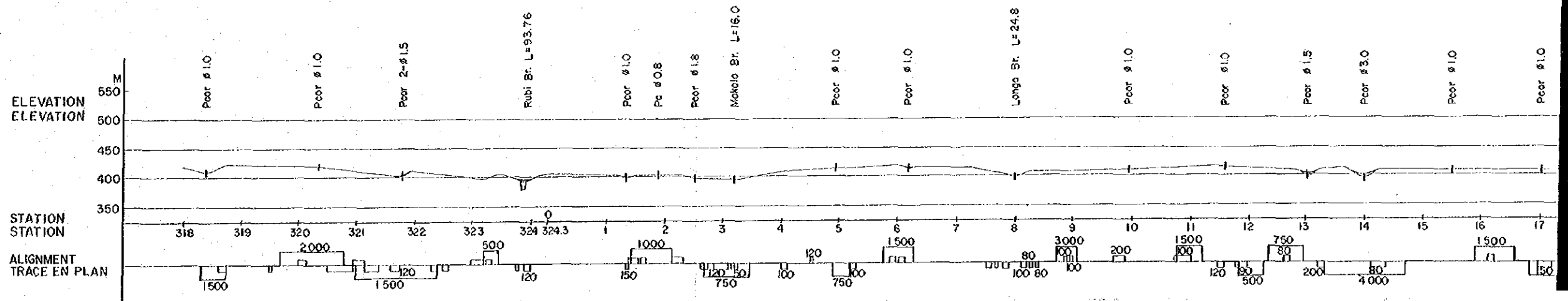
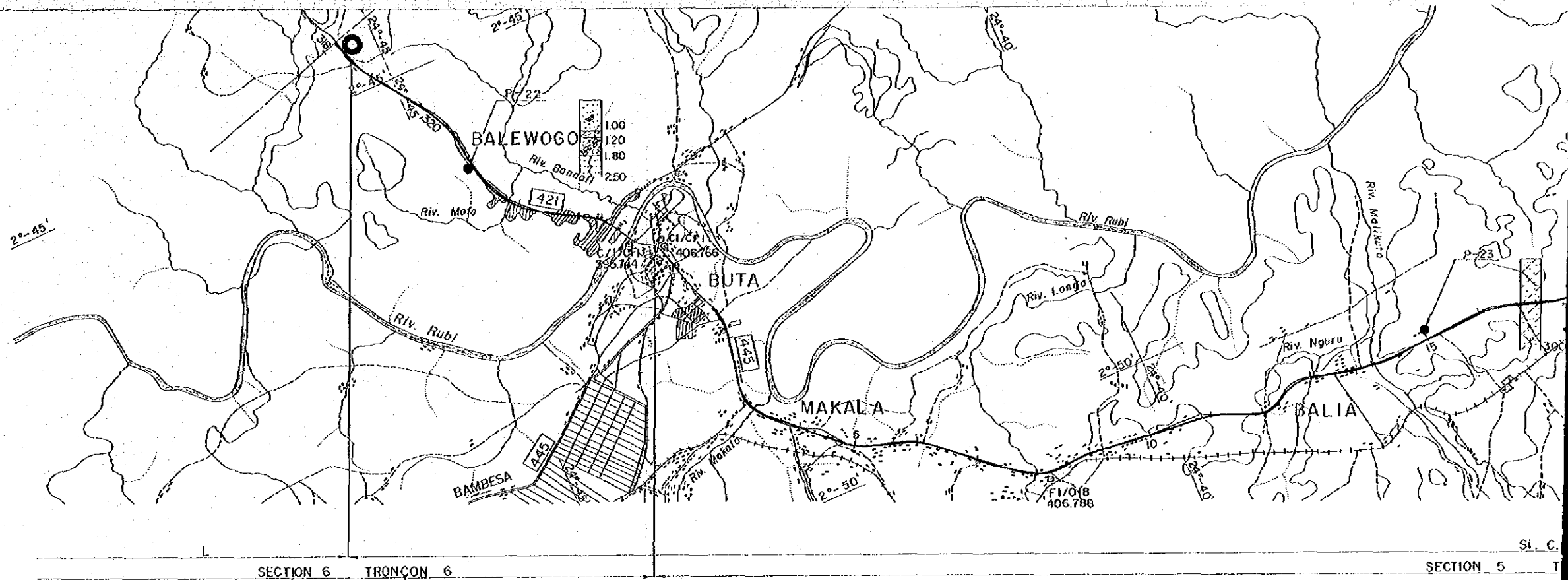
ROUTE MAP
CARTE DE LA ROUTE

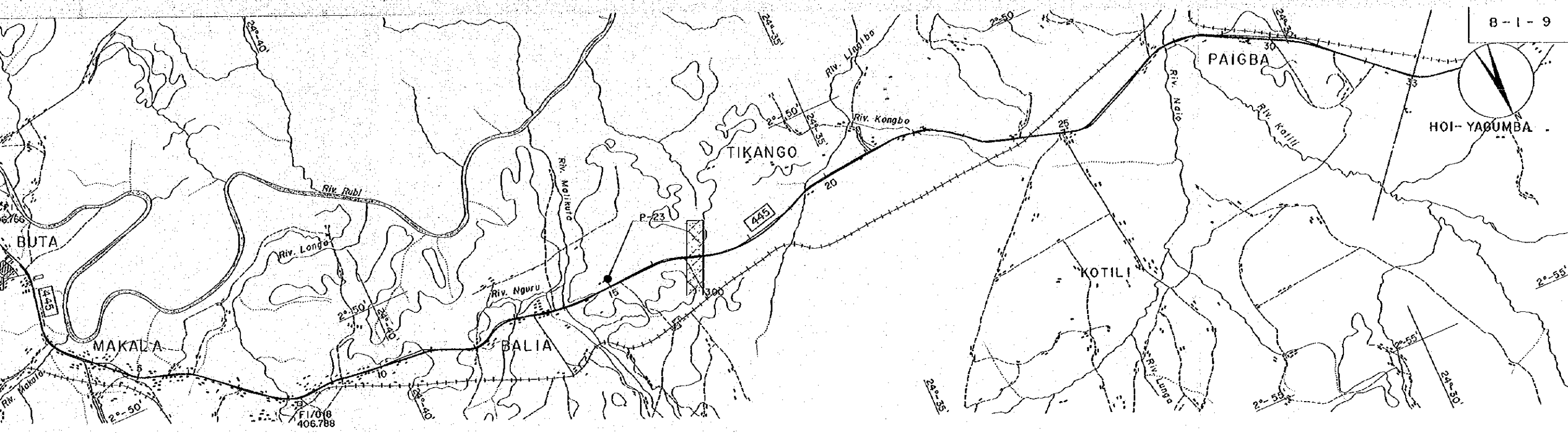
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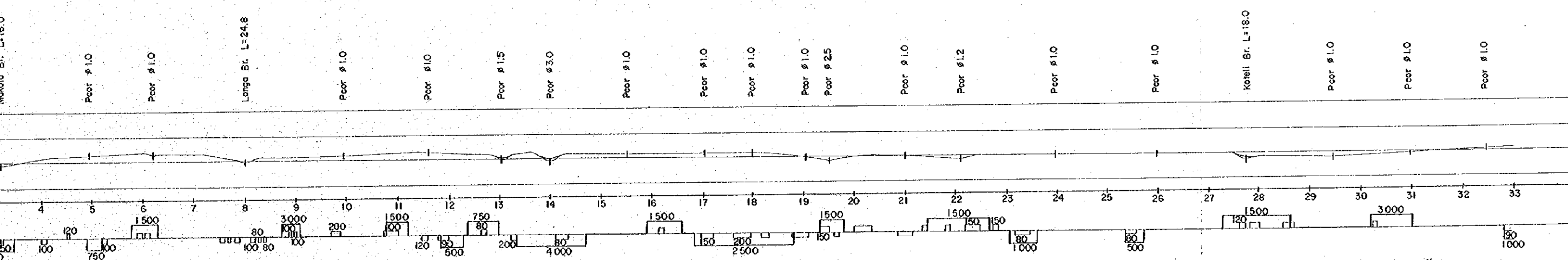
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-----|-------------------------|----|
| Ferry / Soc | --- | River / Rivière | |
| Railway / Chemin de fer | | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | | | |
| Improved Road / Route Améliorée | | | |





SECTION 5 TRONÇON 5



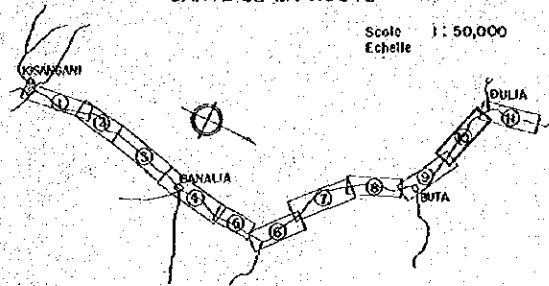
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINÉ

Section
Tronçon

KISANGANI - BANGASSOU

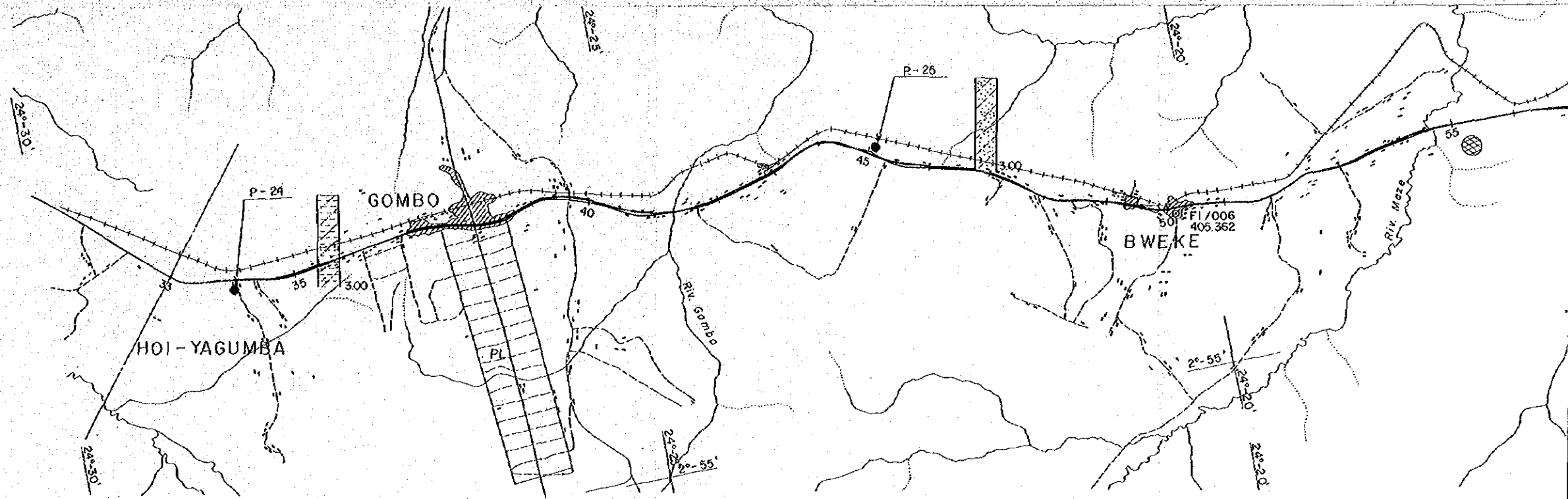
ROUTE MAP
CARTE DE LA ROUTE

Scale
Echelle 1:50,000



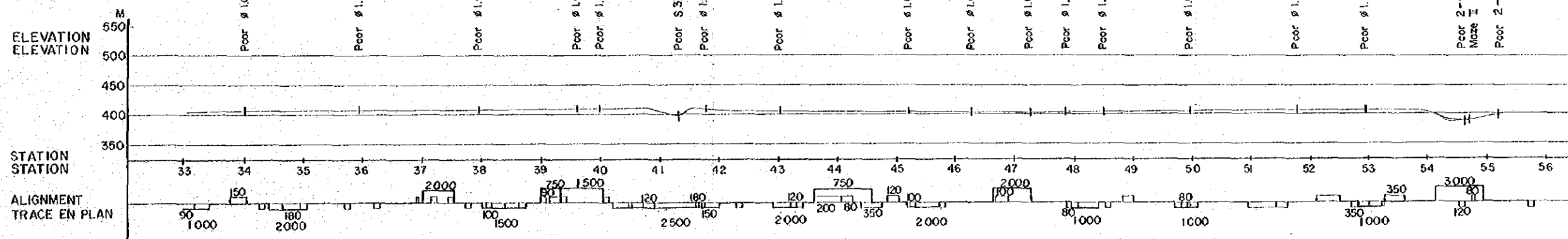
LEGEND / LEGENDE

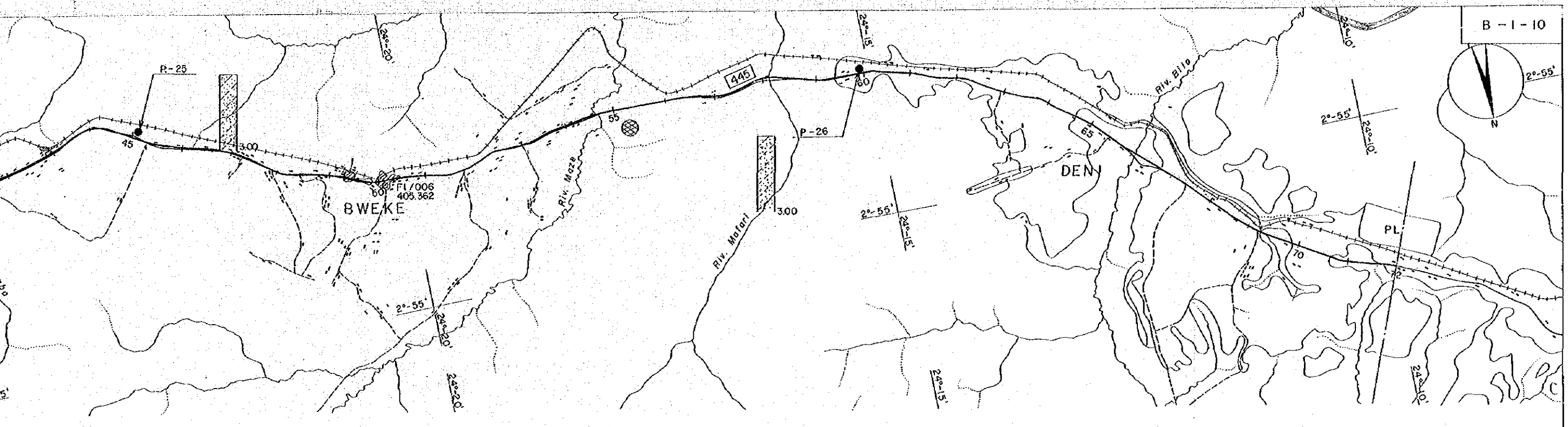
- | | |
|---------------------------------|----------------------------|
| Ferry / Bac | River / Rivière |
| Railway / Chemin de fer | Highland / Colline |
| Village / Village | Plantation / Plantation PL |
| House / Maison | Lowland / Terres Basses |
| Existing Road / Route Actuelle | |
| Improved Road / Route Améliorée | |



SI. C.

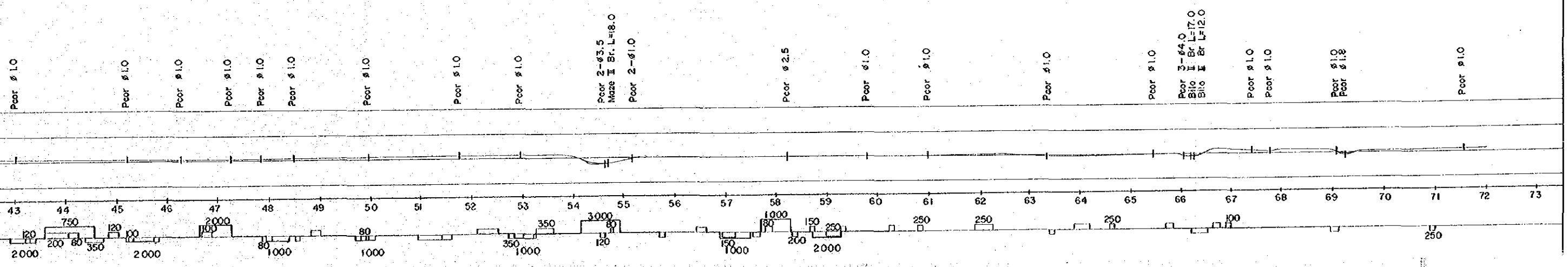
SECTION 5 / TRONÇON 5





Si. C.

SECTION 5 / TRONÇON 5



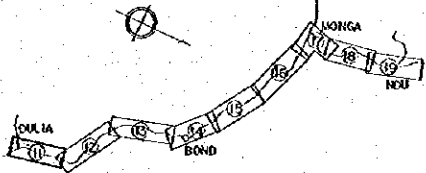
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

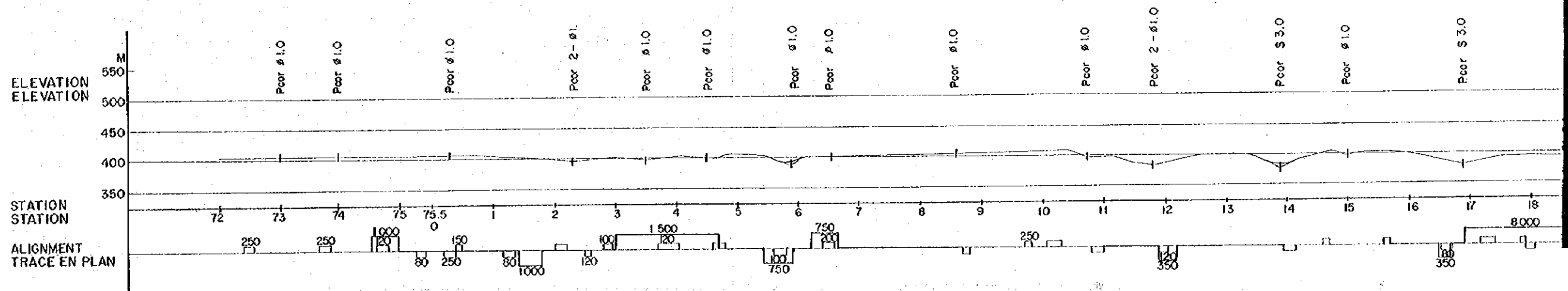
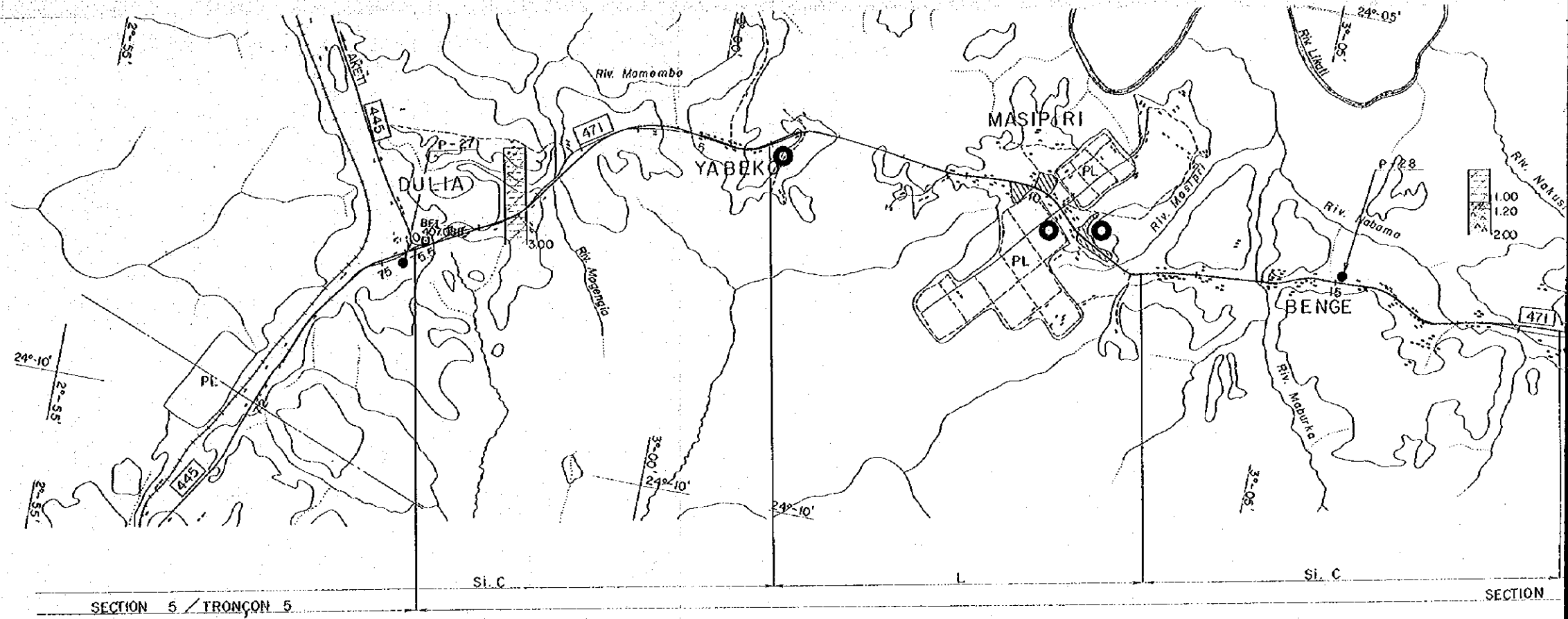
ROUTE MAP
CARTE DE LA ROUTE

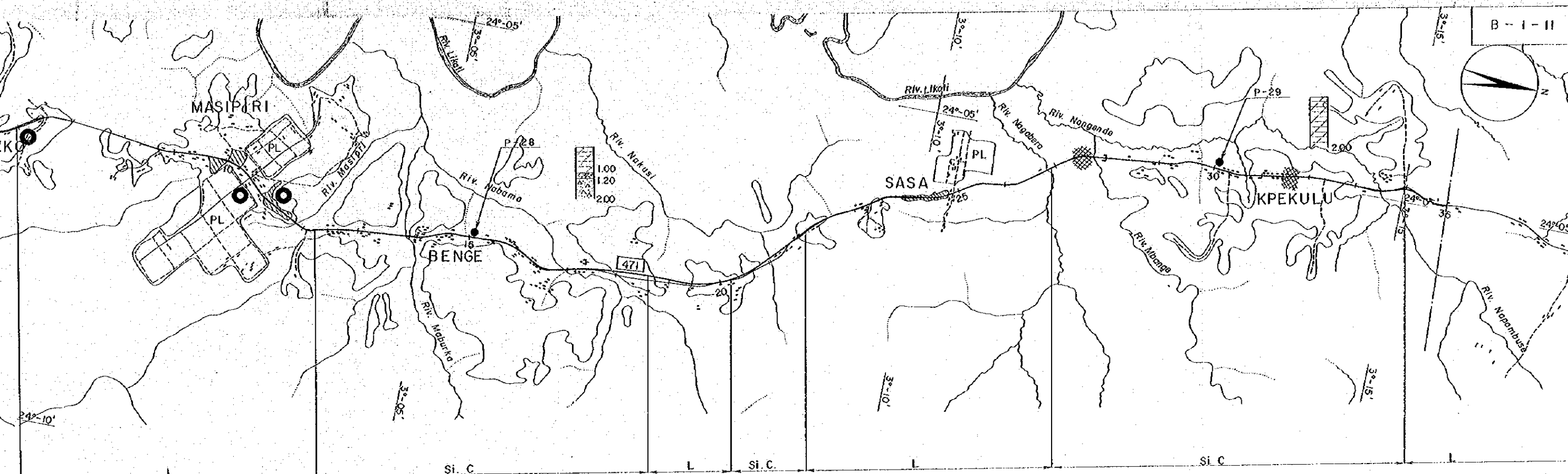
Scale
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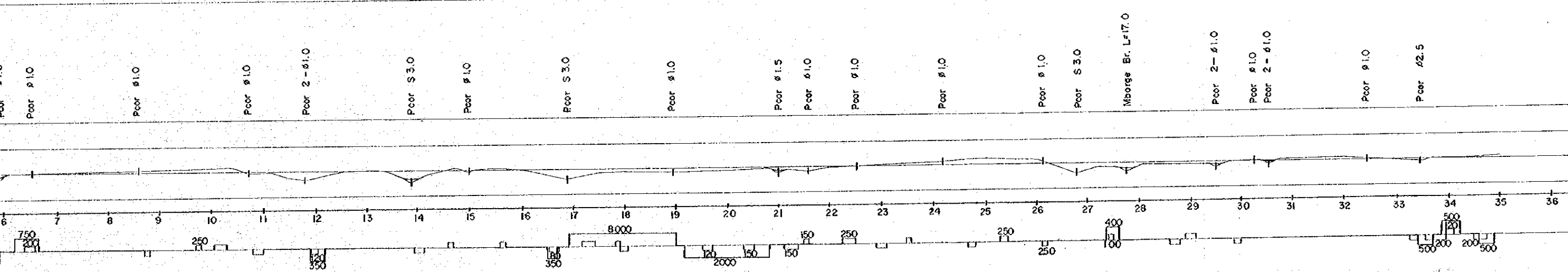
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | — |
| Railway / Chemin de fer | —+—+— | Highland / Colline | — |
| Village / Village | ▨ | Plantation / Plantation | PL |
| House / Maison | • | Lowland / Terres Bosses | ○ |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | — | | |





SECTION 4 / TRONÇON 4



Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor 2 - ϕ 1.0
 Pcor ϕ 3.0
 Pcor ϕ 1.0
 Pcor ϕ 3.0
 Pcor ϕ 1.0
 Pcor ϕ 1.5
 Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 3.0
 Mborse Br. L=17.0
 Pcor 2 - ϕ 1.0
 Pcor ϕ 1.0
 Pcor 2 - ϕ 1.0
 Pcor ϕ 1.0
 Pcor ϕ 2.5

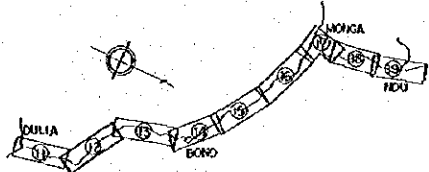
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

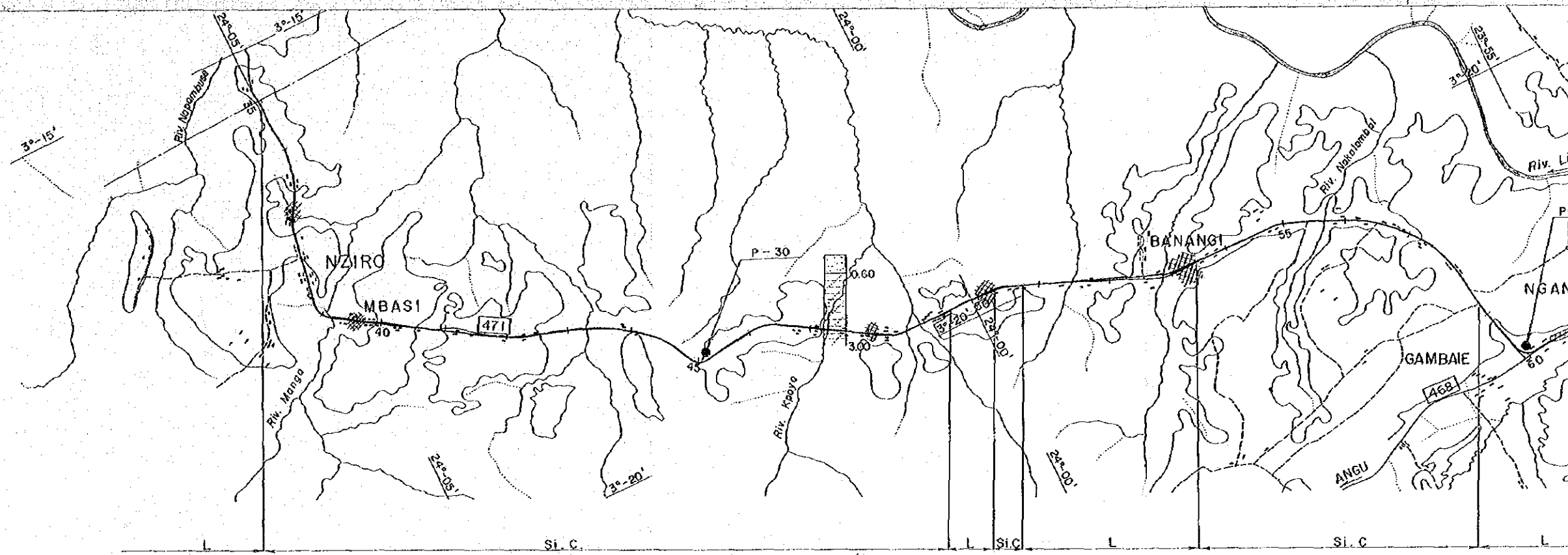
ROUTE MAP
CARTÉ DE LA ROUTE

Scale
Echelle 1 : 50,000

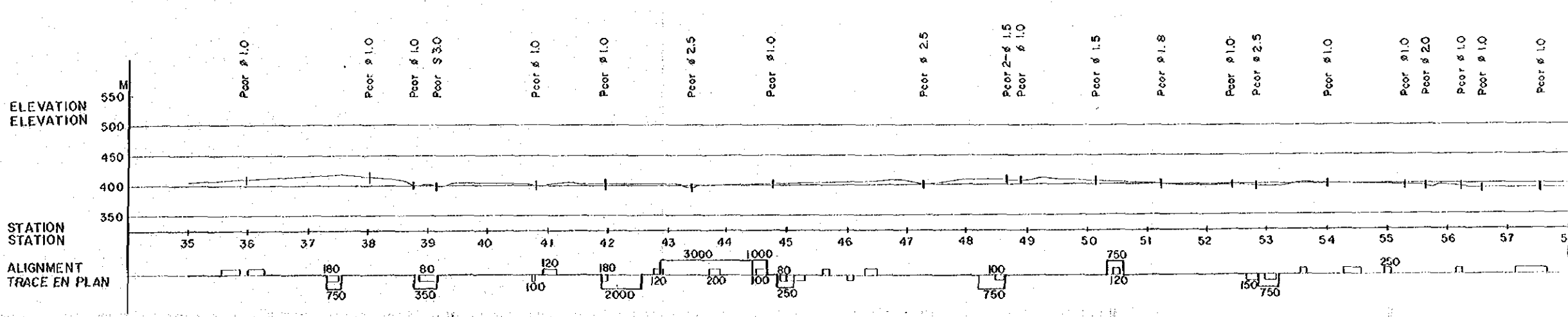


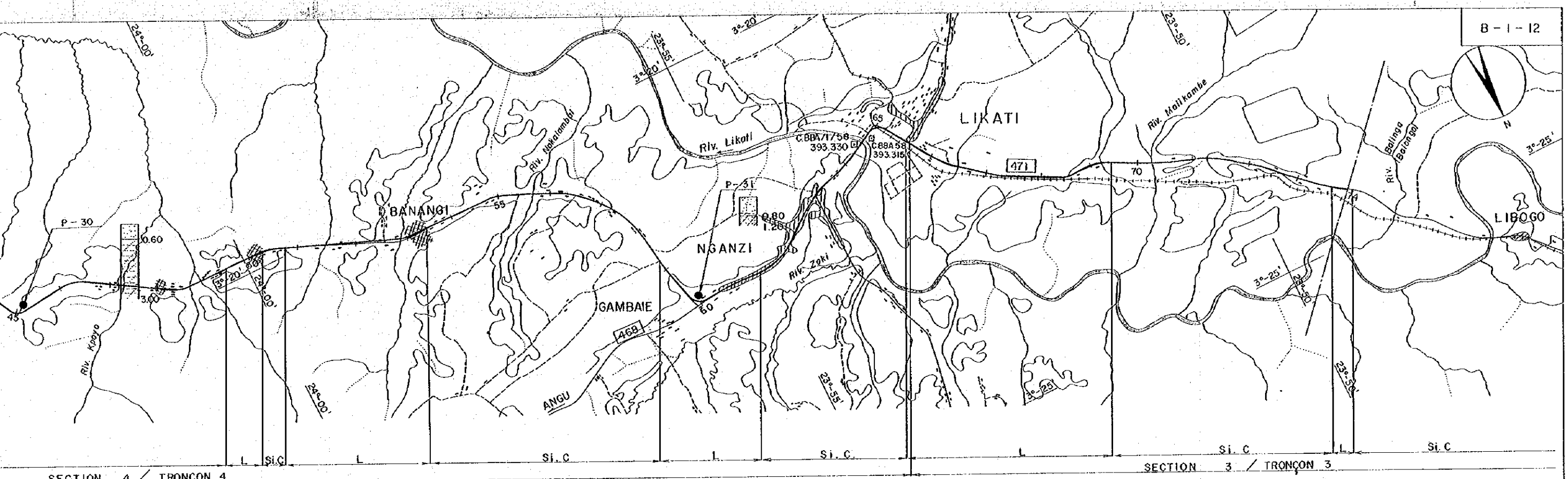
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | .. | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | --- | | |
| Improved Road / Route Améliorée | --- | | |



SECTION 4 / TRONÇON 4

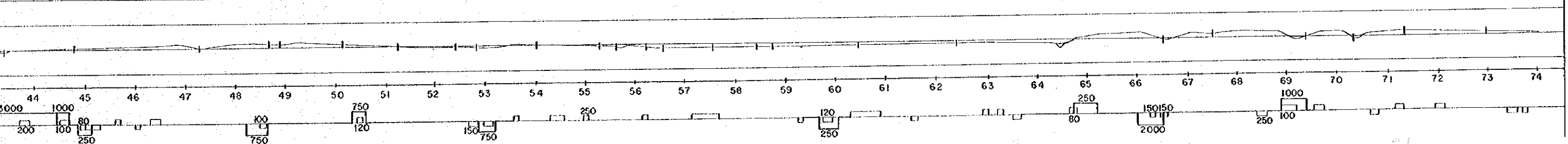




SECTION 4 / TRONÇON 4

SECTION 3 / TRONÇON 3

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|------------|------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------|------------|------------|------------|------------|------------|
| Pcor # 2.5 | Pcor # 1.0 | Pcor # 2.5 | Pcor 2-# 1.5 Pcor # 1.0 | Pcor # 1.5 | Pcor # 1.8 | Pcor # 1.0 | Pcor # 2.5 | Pcor # 1.0 | Pcor # 2.0 | Pcor # 1.0 | Pcor # 1.0 | Pcor # 1.0 | Pcor # 1.0 | Pcor # 1.0 | Pcor # 1.0 | Likoti Br. L=804 | Pcor # 1.8 | Pcor # 1.0 | Pcor # 2.5 | Pcor # 1.8 | Pcor # 1.0 | Pcor # 1.0 |
|------------|------------|------------|----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------|------------|------------|------------|------------|------------|



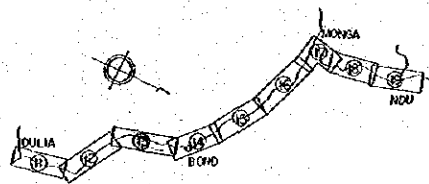
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

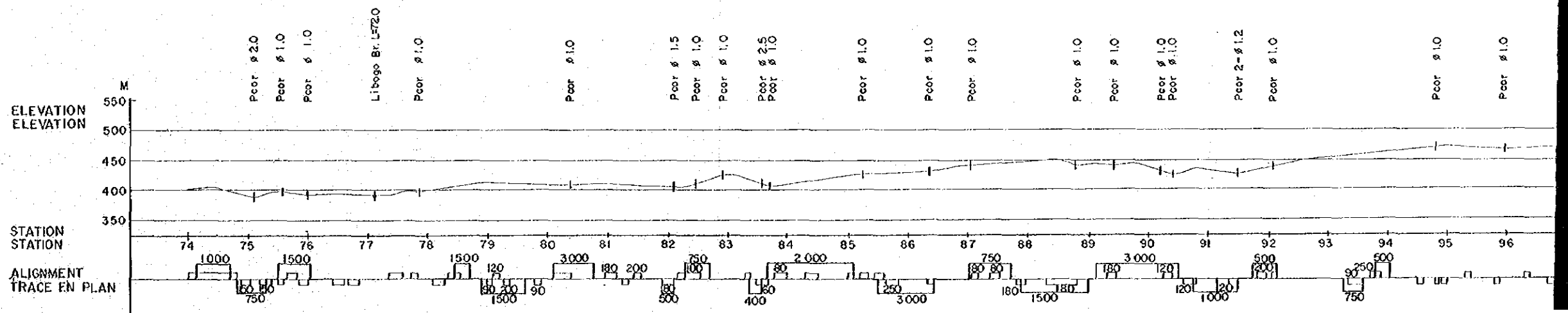
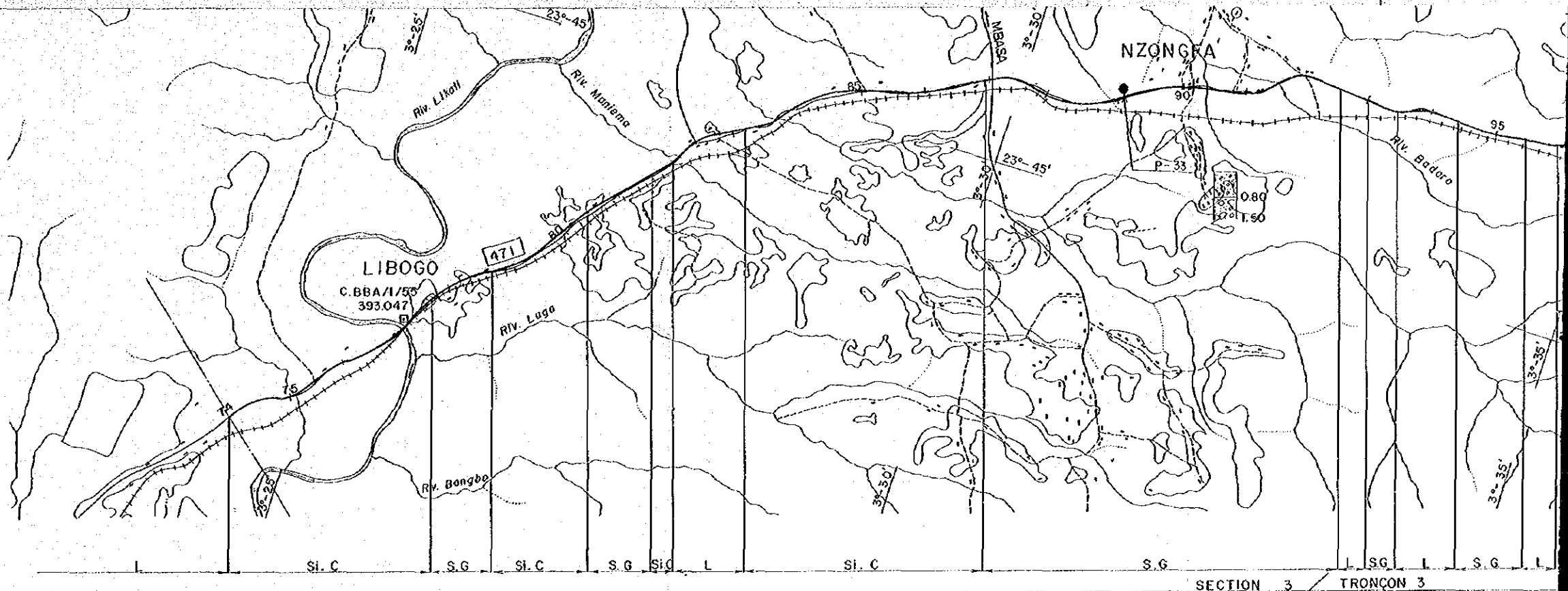
ROUTE MAP
CARTE DE LA ROUTE

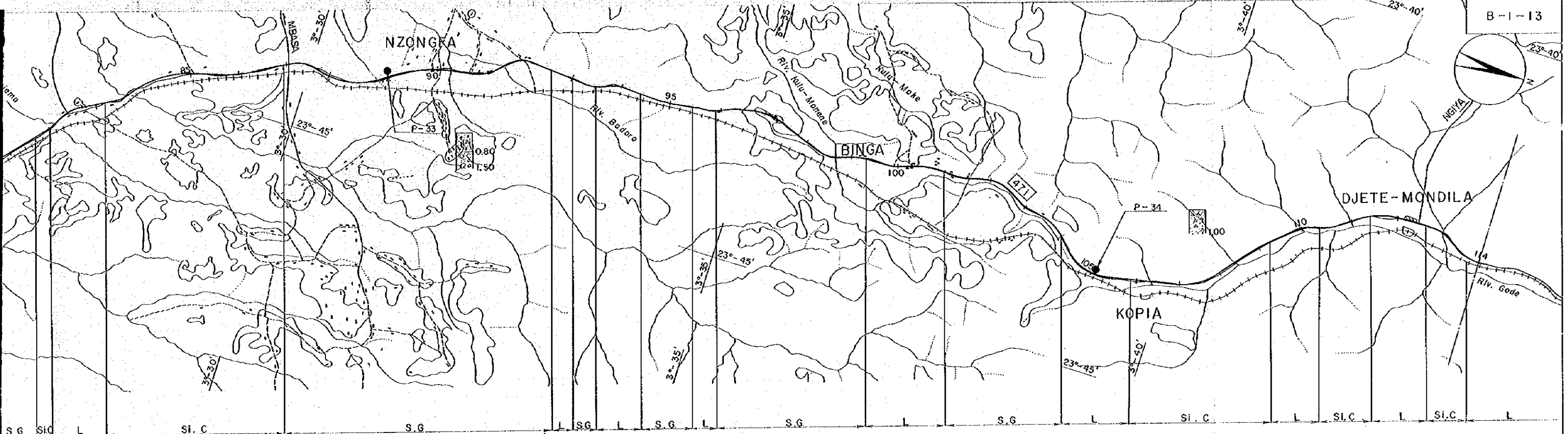
Scale 1:50,000
Echelle



LEGEND / LEGENDE

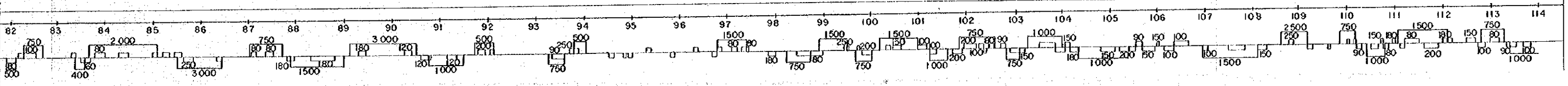
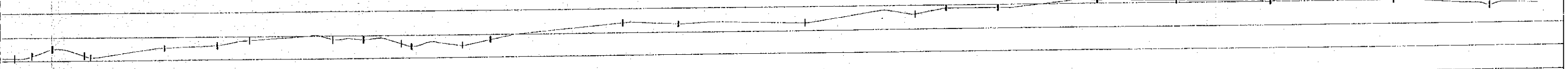
- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | ----- | Lightland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | ••• | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | — | | |





SECTION 3 / TRONÇON 3

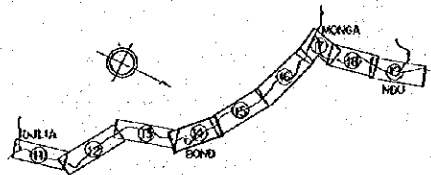
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 Peer § 1.0
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 Peer § 2.5
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 Peer § 1.0
 Peer § 1.0
 Peer § 1.0
 Peer § 1.0
 Peer 2-§ 1.2
 Peer § 1.0
 Peer § 1.0
 Peer 2-§ 1.2
 Peer § 1.0
 Peer § 1.0
 Peer § 1.0
 Peer § 1.0
 Peer § 1.5
 Peer § 1.5
 Peer § 1.3
 Peer § 1.5
 Peer 2-§ 1.3



TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAIN
Section
Tronçon
KISANGANI-BANGASSOU

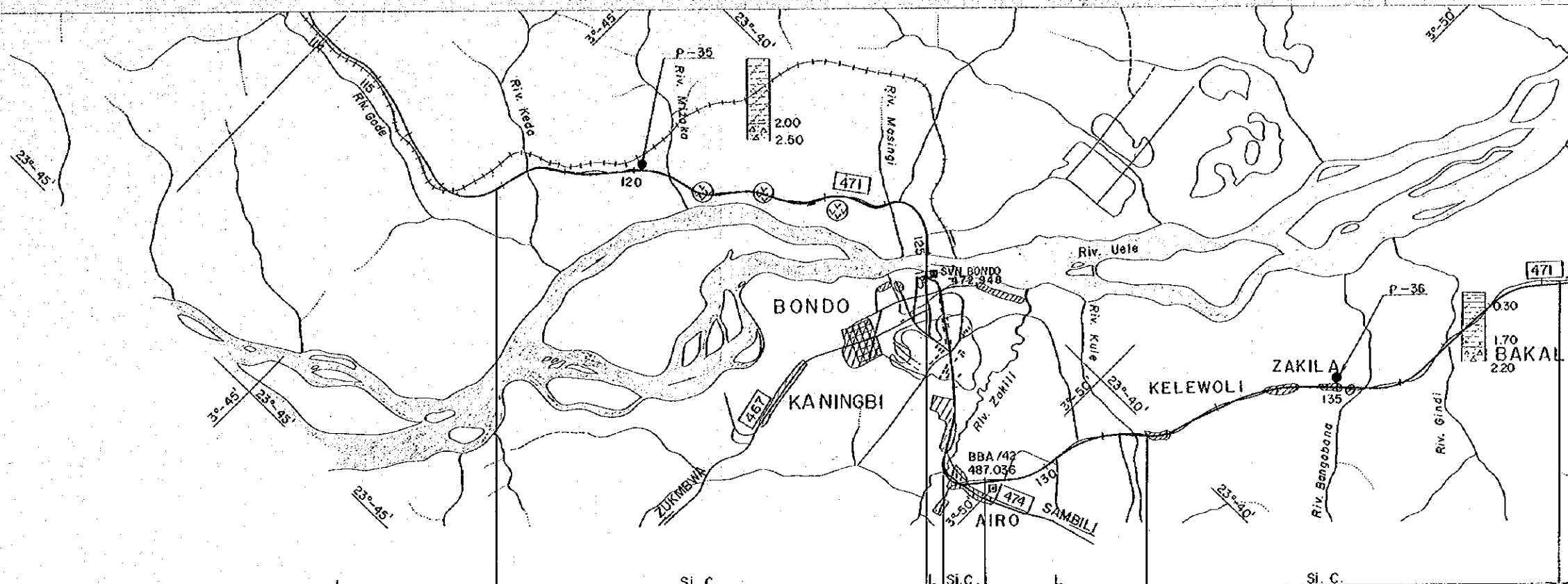
ROUTE MAP
CARTE DE LA ROUTE

Scale
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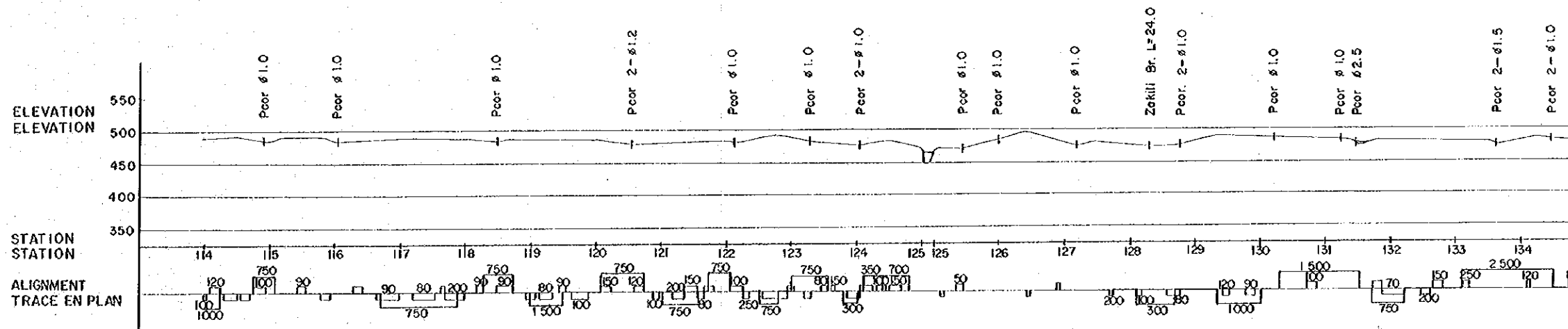


LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | |
| Railway / Chemin de fer | ----- | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | •• | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | == | | |



SECTION 3 / TRONÇON 3



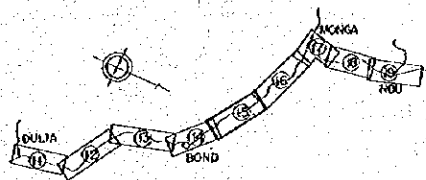
TRANSFRICAN HIGHWAY
ROUTE TRANSFRICAINE

Section
Tronçon

KISANGANI-BANGASSOU

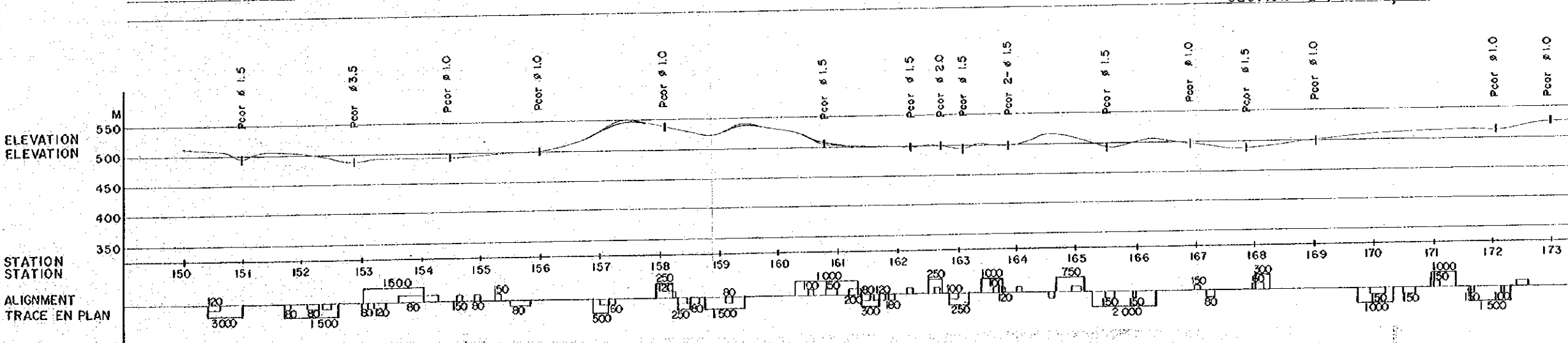
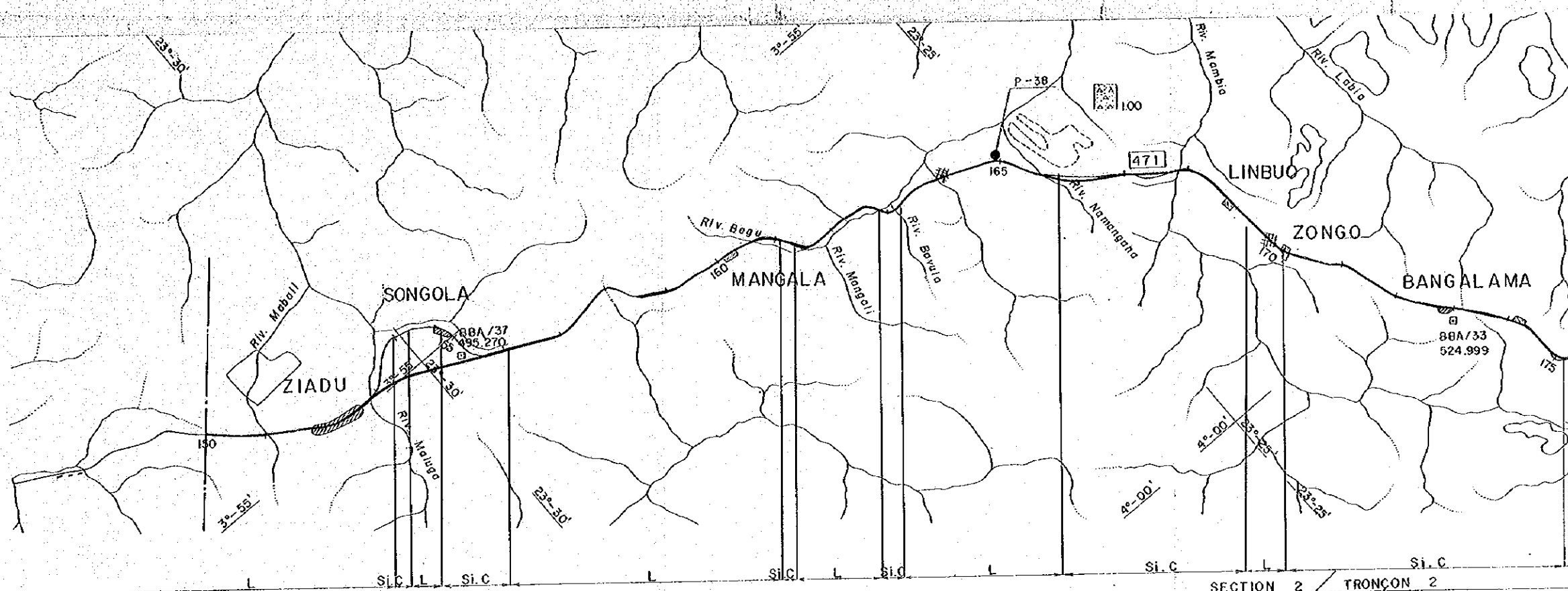
ROUTE MAP
CARTE DE LA ROUTE

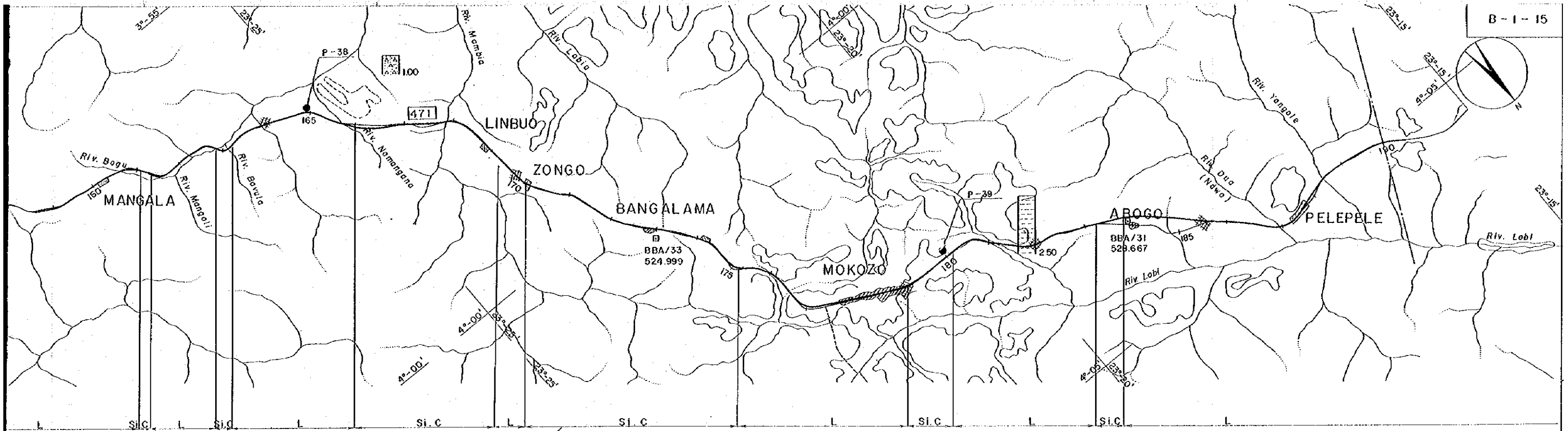
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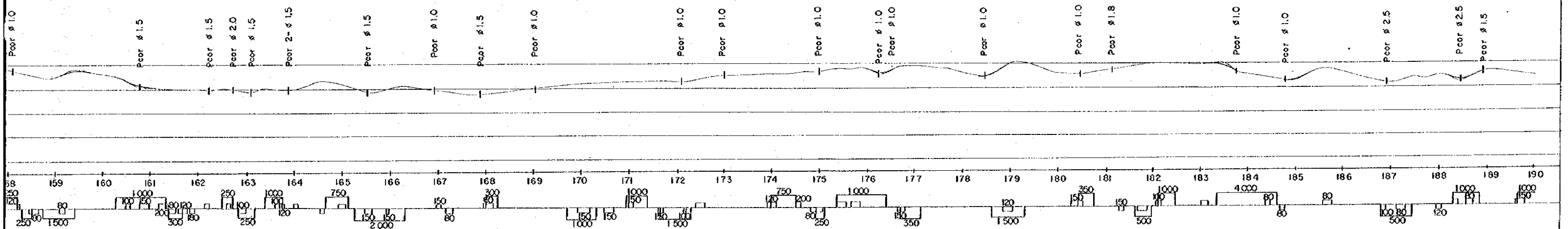
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | ----- | River / Rivière | |
| Railway / Chemin de fer | | Highland / Colline | |
| Village / Village | | Plantation / Plantation | PL |
| House / Maison | ..* | Lowland / Terres Basses | |
| Existing Road / Route Actuelle | --- | | |
| Improved Road / Route Améliorée | --- | | |





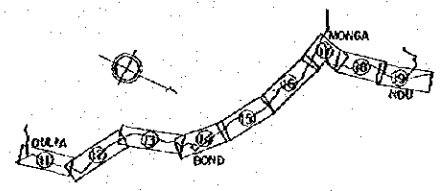
SECTION 2 / TRONÇON 2



TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE
Section
Tronçon
KISANGANI - BANGASSOU

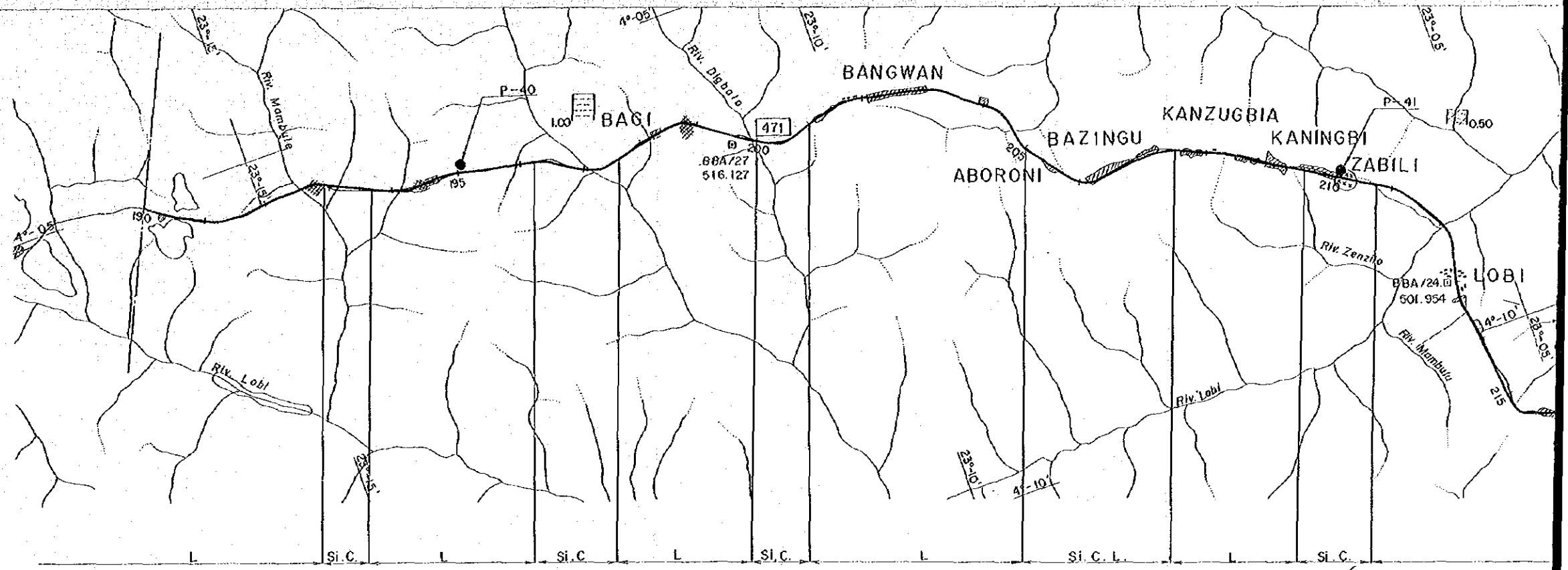
ROUTE MAP
CARTE DE LA ROUTE

Scale 1:50,000
Echelle

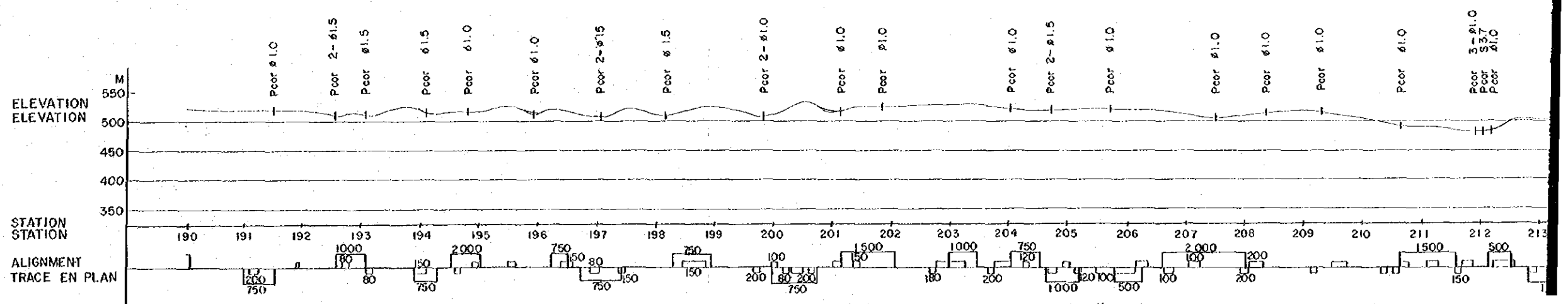


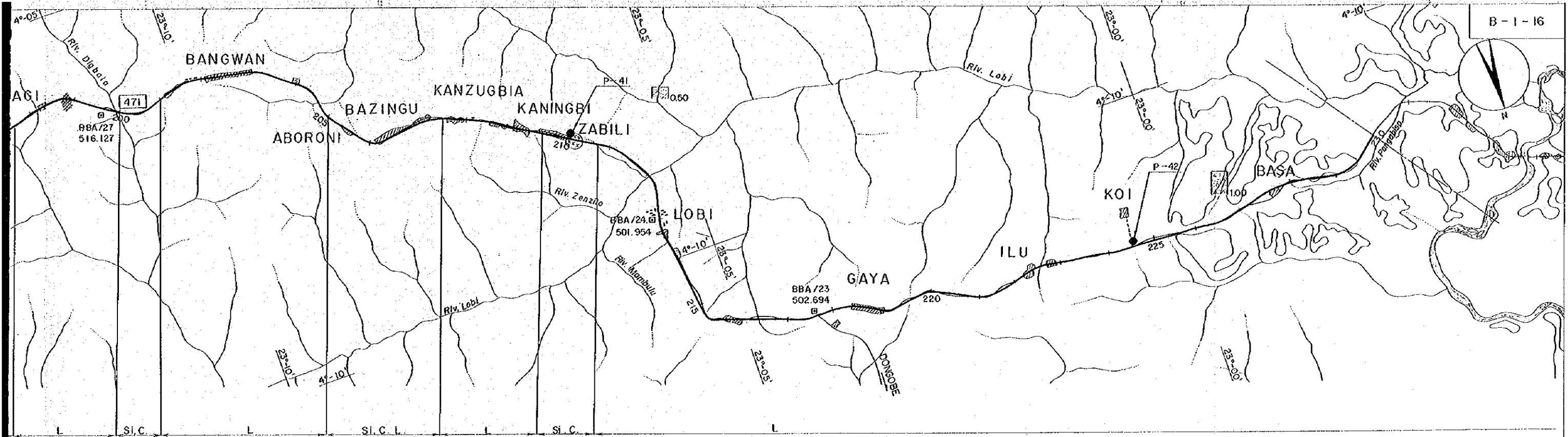
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | ~ |
| Railway / Chemin de fer | —+—+— | Highland / Colline | ○ |
| Village / Village | ▨ | Plantation / Plantation | PL |
| House / Maison | • | Lowland / Terres Basses | ○ |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | — | | |

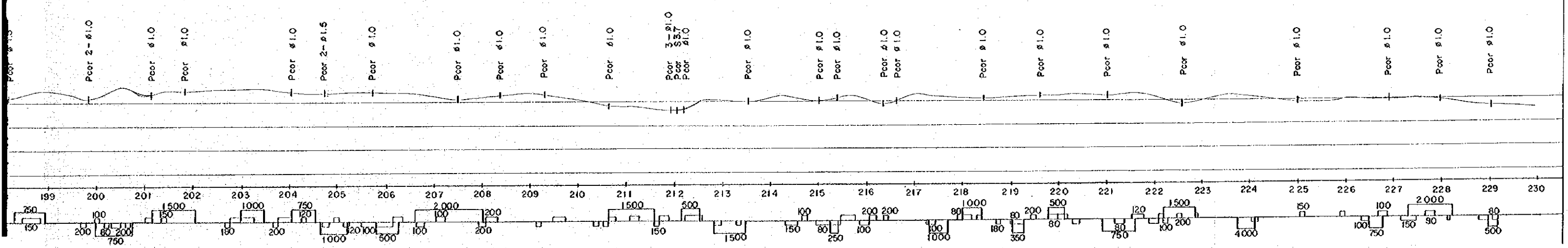


SECTION 2 / TRONÇON 2





SECTION 2 / TRONÇON 2



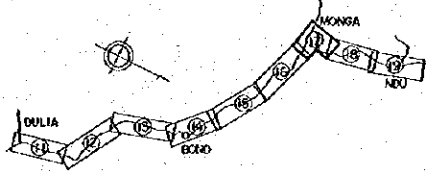
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

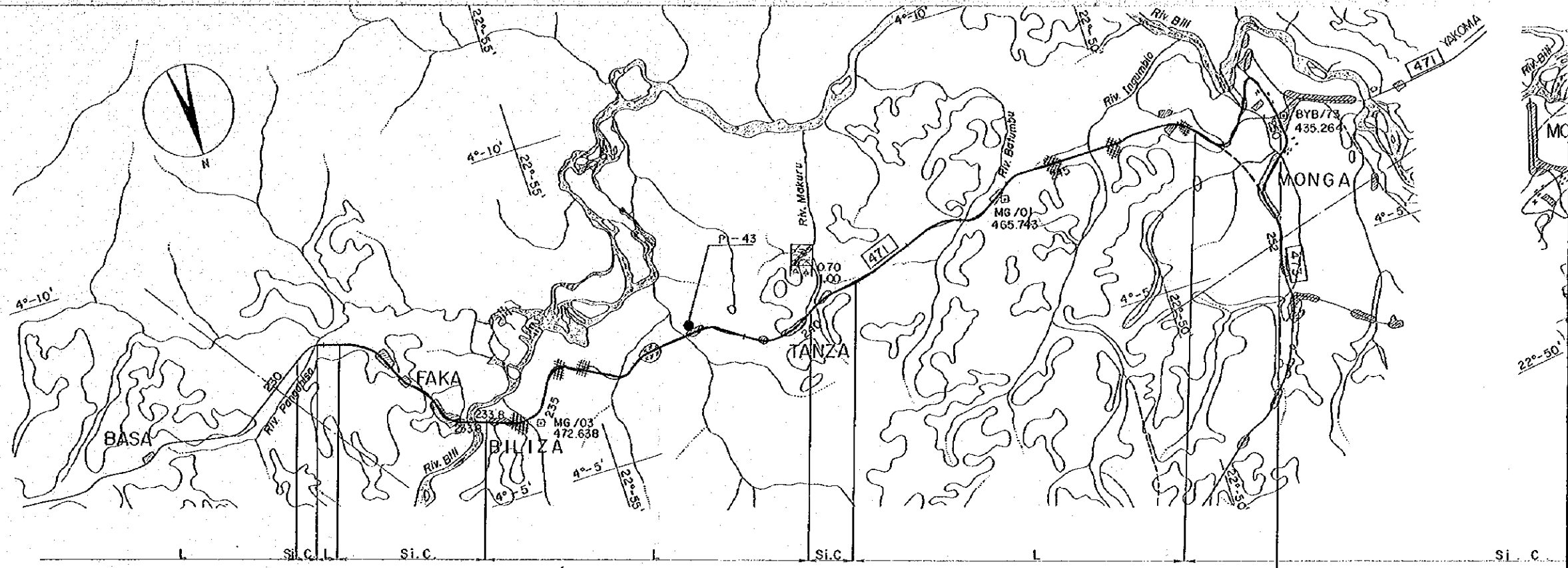
ROUTE MAP
CARTE DE LA ROUTE

Scale
Echelle 1 : 50,000

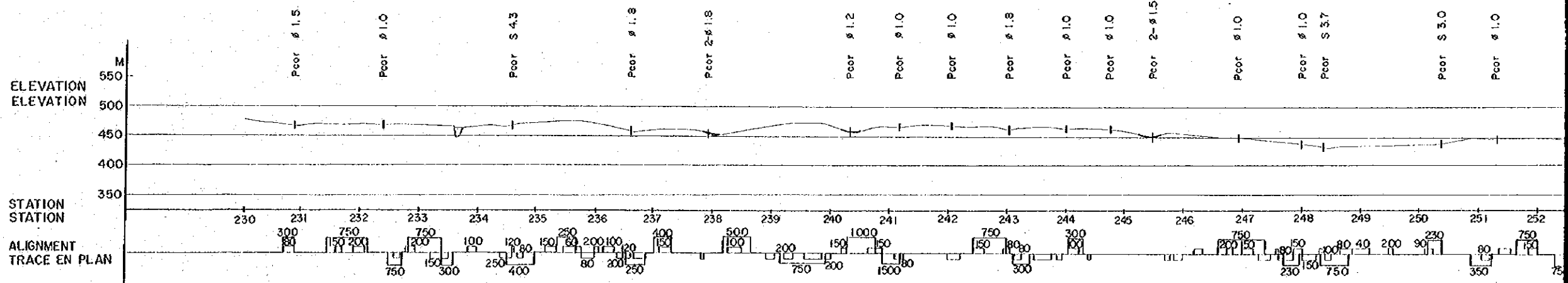


LEGEND / LEGENDE

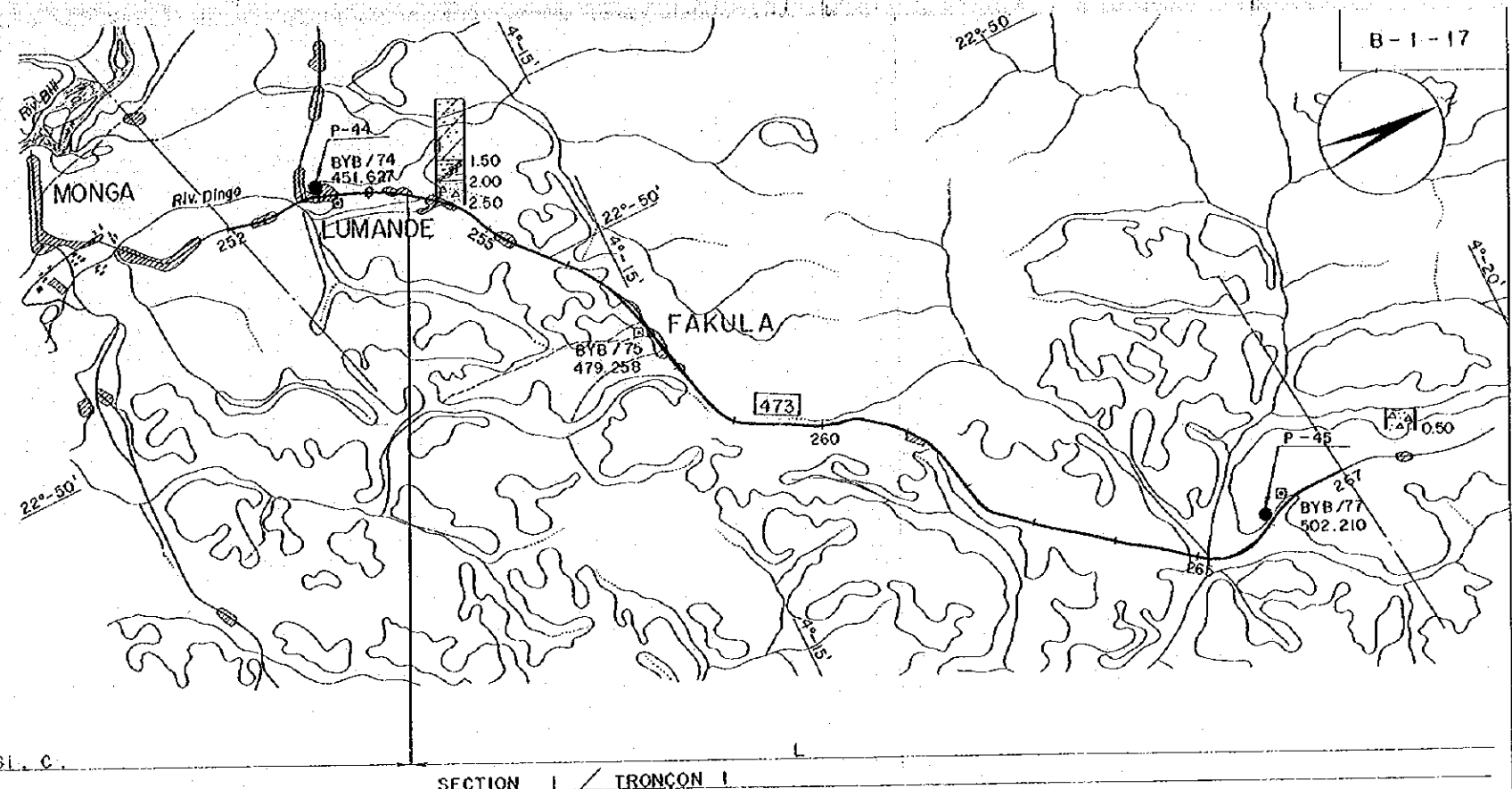
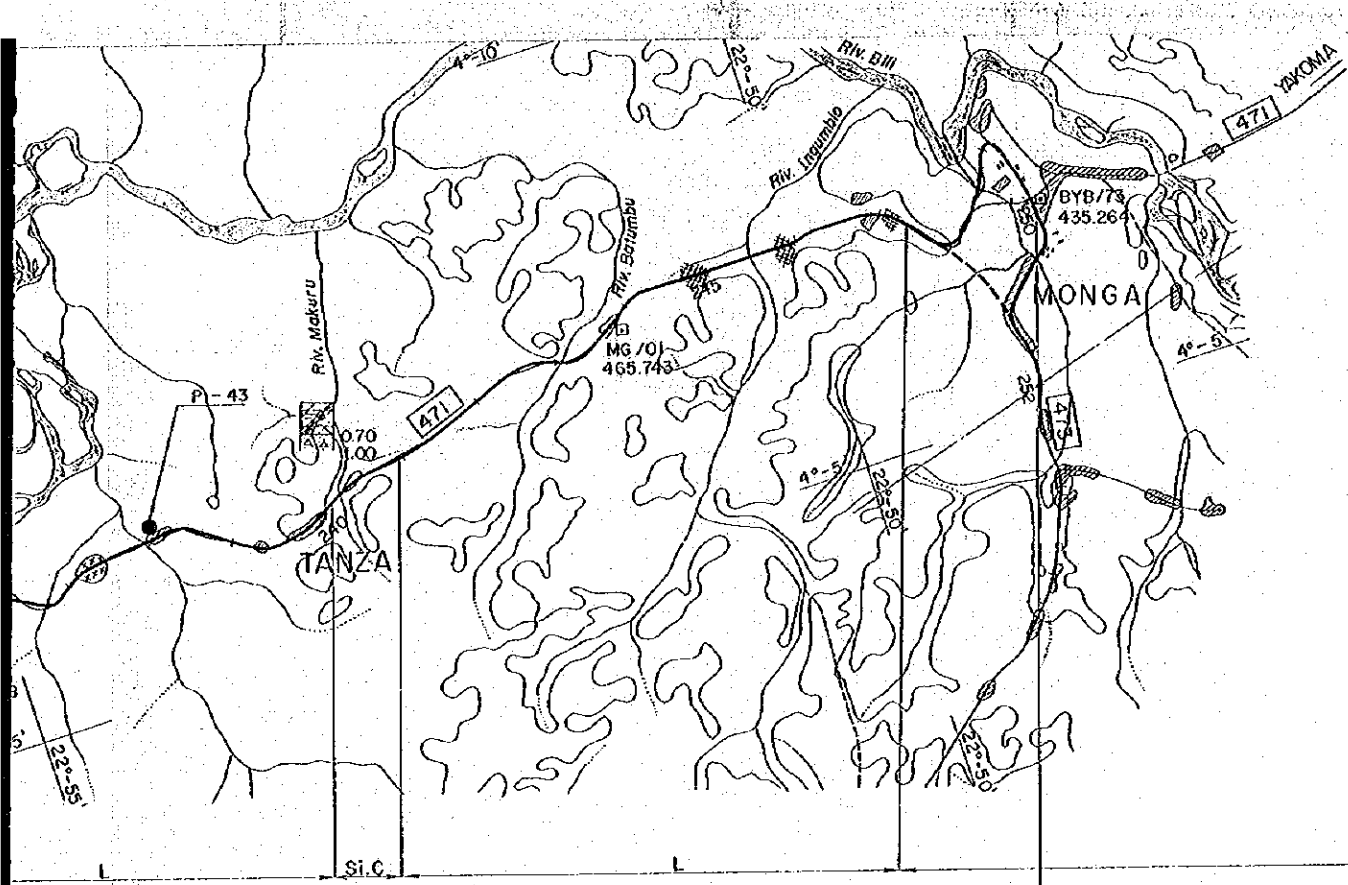
- Ferry / Bac
- Railway / Chemin de fer
- Village / Village
- House / Maison
- Existing Road / Route Actuelle
- Improved Road / Route Améliorée
- River / Rivière
- Highland / Colline
- Plantation / Plantation PL
- Lowland / Terres Basses



SECTION 2 / TRONÇON 2

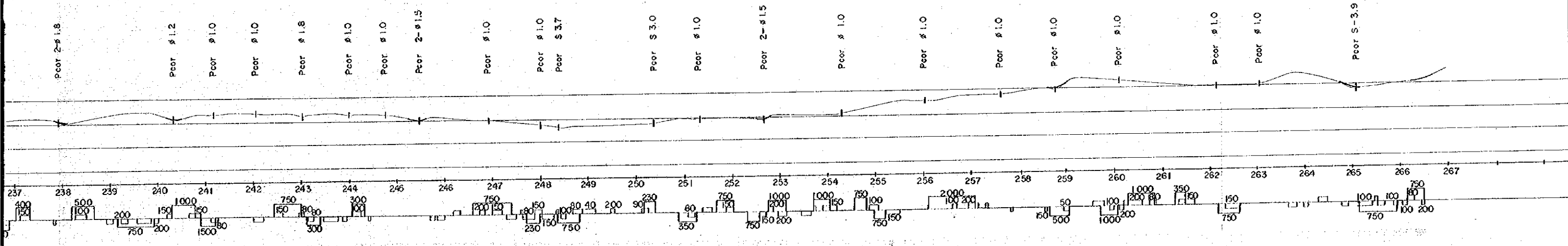


Pcor § 1.5 Pcor § 1.0 Pcor S 4.3 Pcor § 1.8 Pcor 2-§ 1.8
 Pcor § 1.2 Pcor § 1.0 Pcor § 1.0 Pcor § 1.8 Pcor § 1.0 Pcor § 1.0 Pcor 2-§ 1.5
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B-1-17

ONÇON 2 SECTION I / TRONÇON I



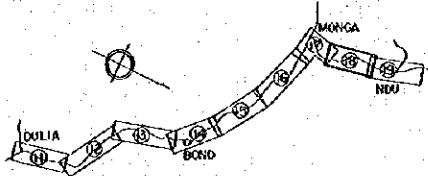
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI-BANGASSOU

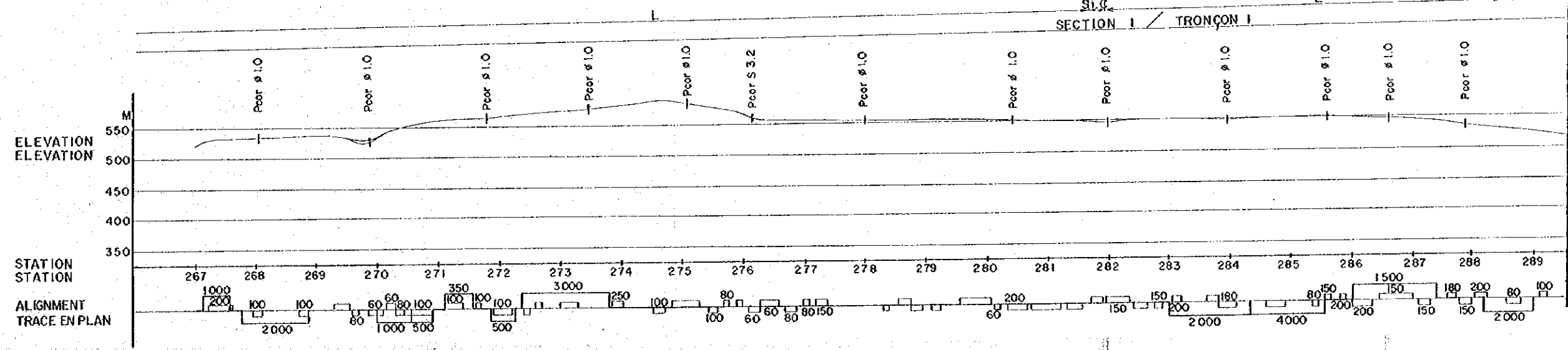
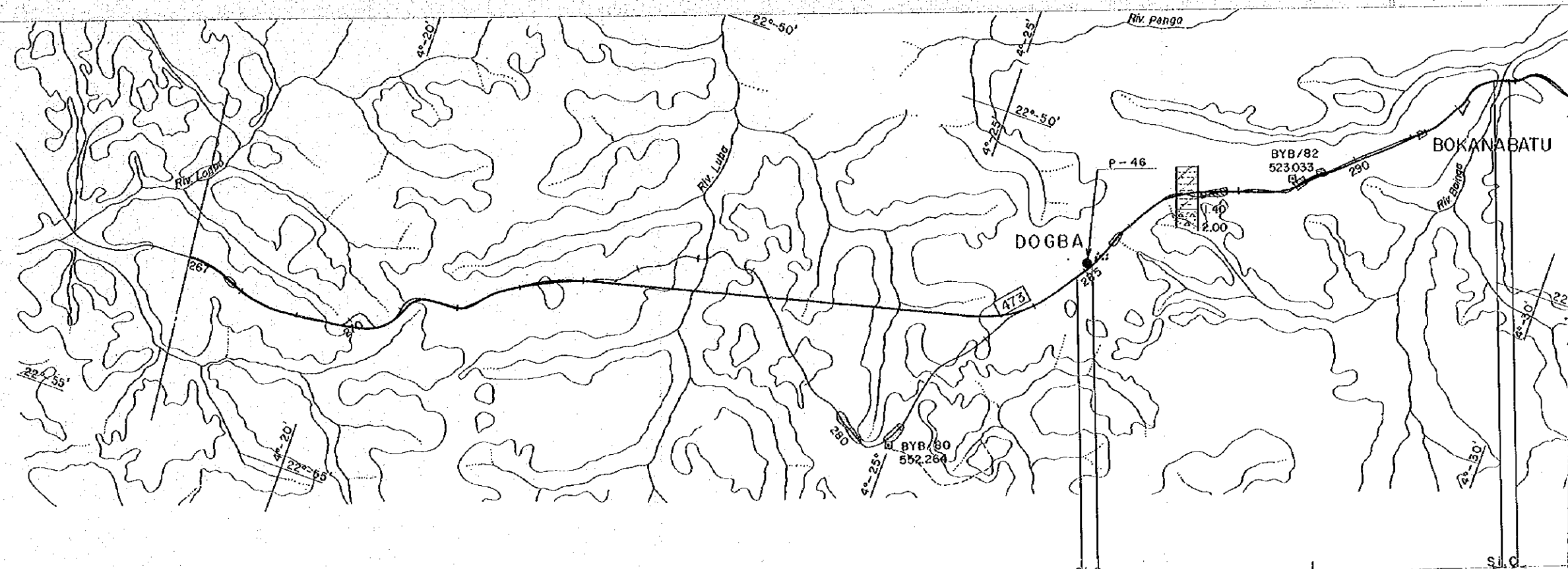
ROUTE MAP
CARTE DE LA ROUTE

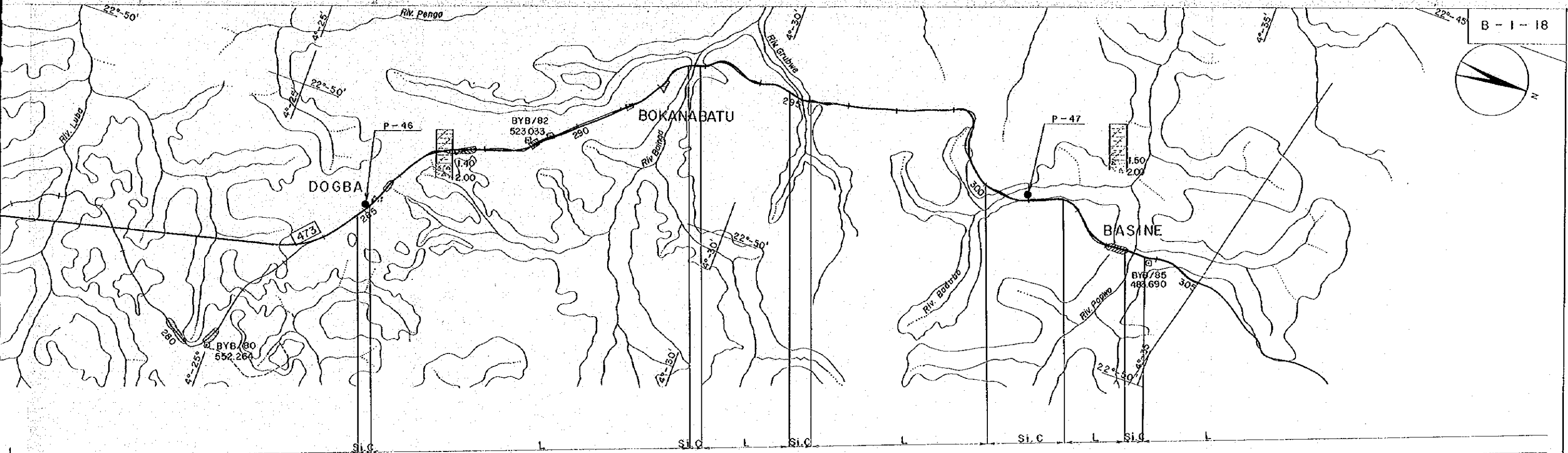
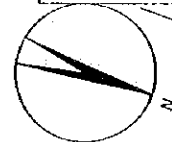
Scale 1 : 50,000
Echelle



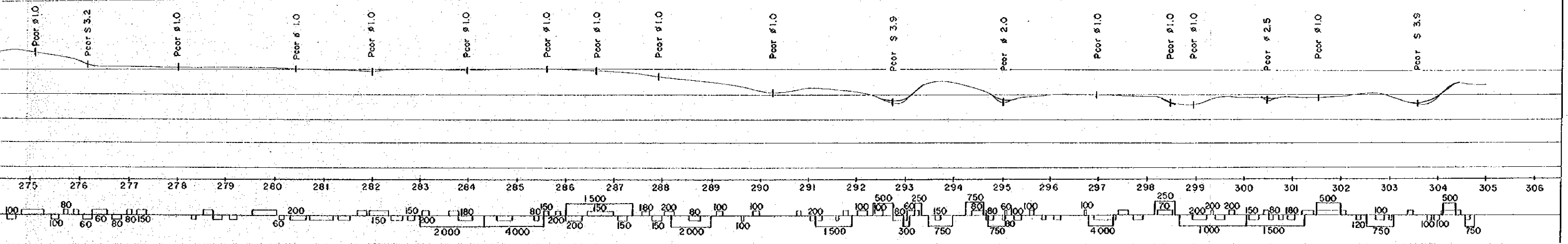
LEGEND / LEGENDE

- | | | | |
|---------------------------------|-------|-------------------------|----|
| Ferry / Bac | — | River / Rivière | — |
| Railway / Chemin de fer | —+—+— | Highland / Colline | — |
| Village / Village | — | Plantation / Plantation | PL |
| House / Maison | — | Lowland / Terres Basses | — |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | — | | |





SECTION I / TRONÇON I



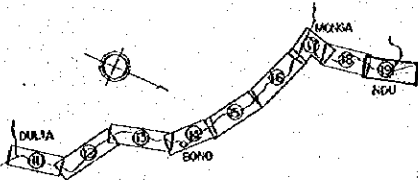
TRANSAFRICAN HIGHWAY
ROUTE TRANSAFRICAINNE

Section
Tronçon

KISANGANI - BANGASSOU

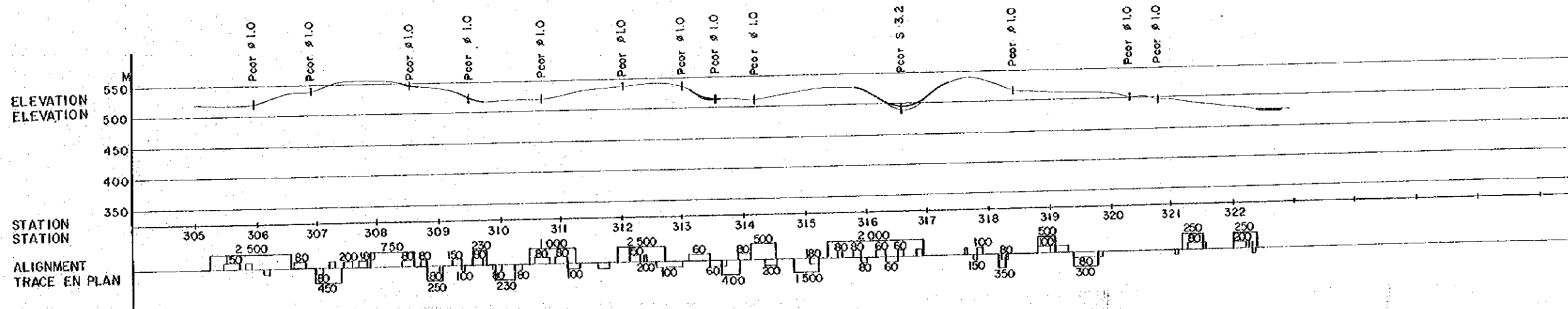
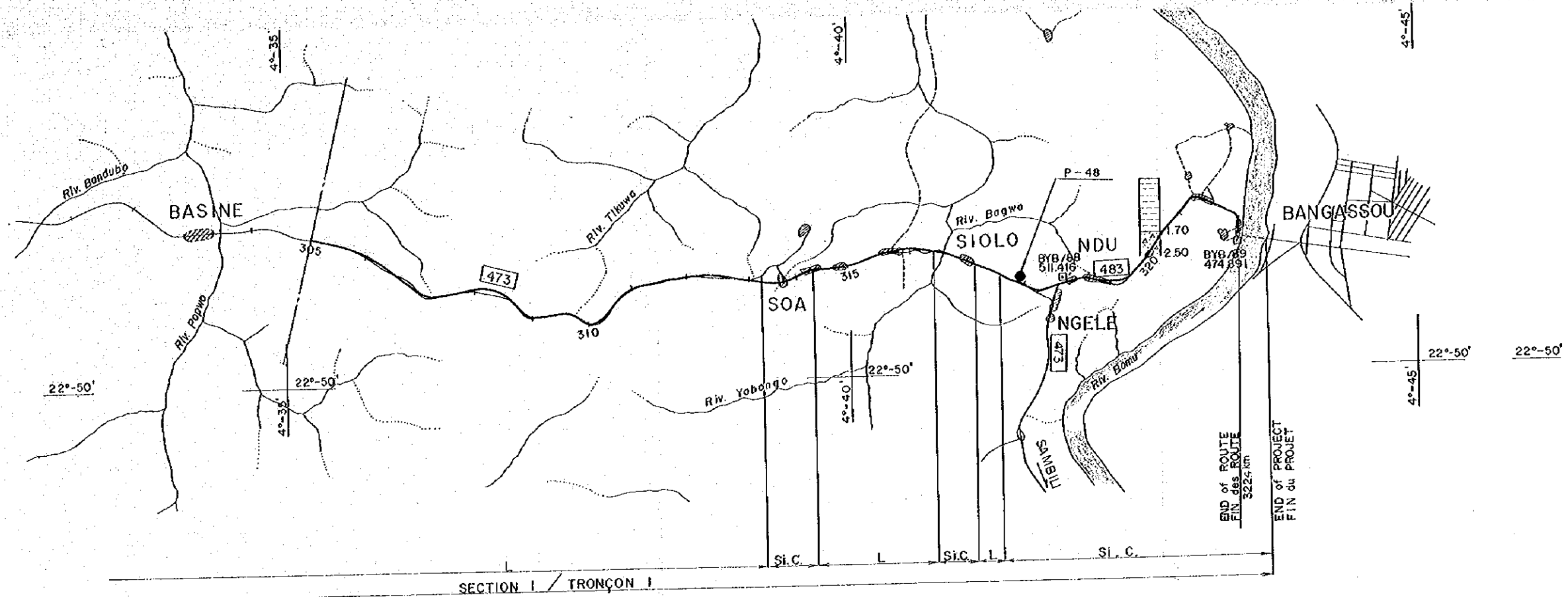
ROUTE MAP
CARTE DE LA ROUTE

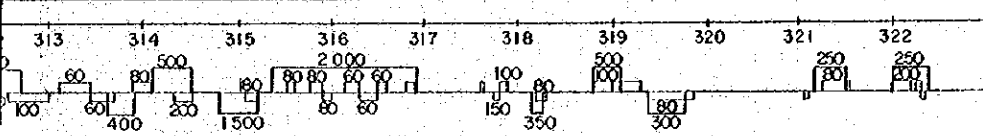
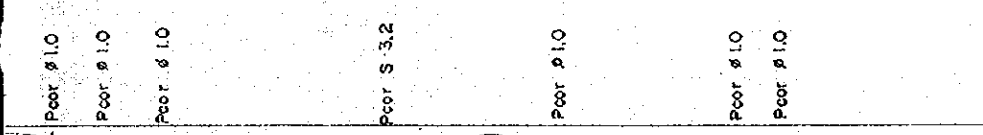
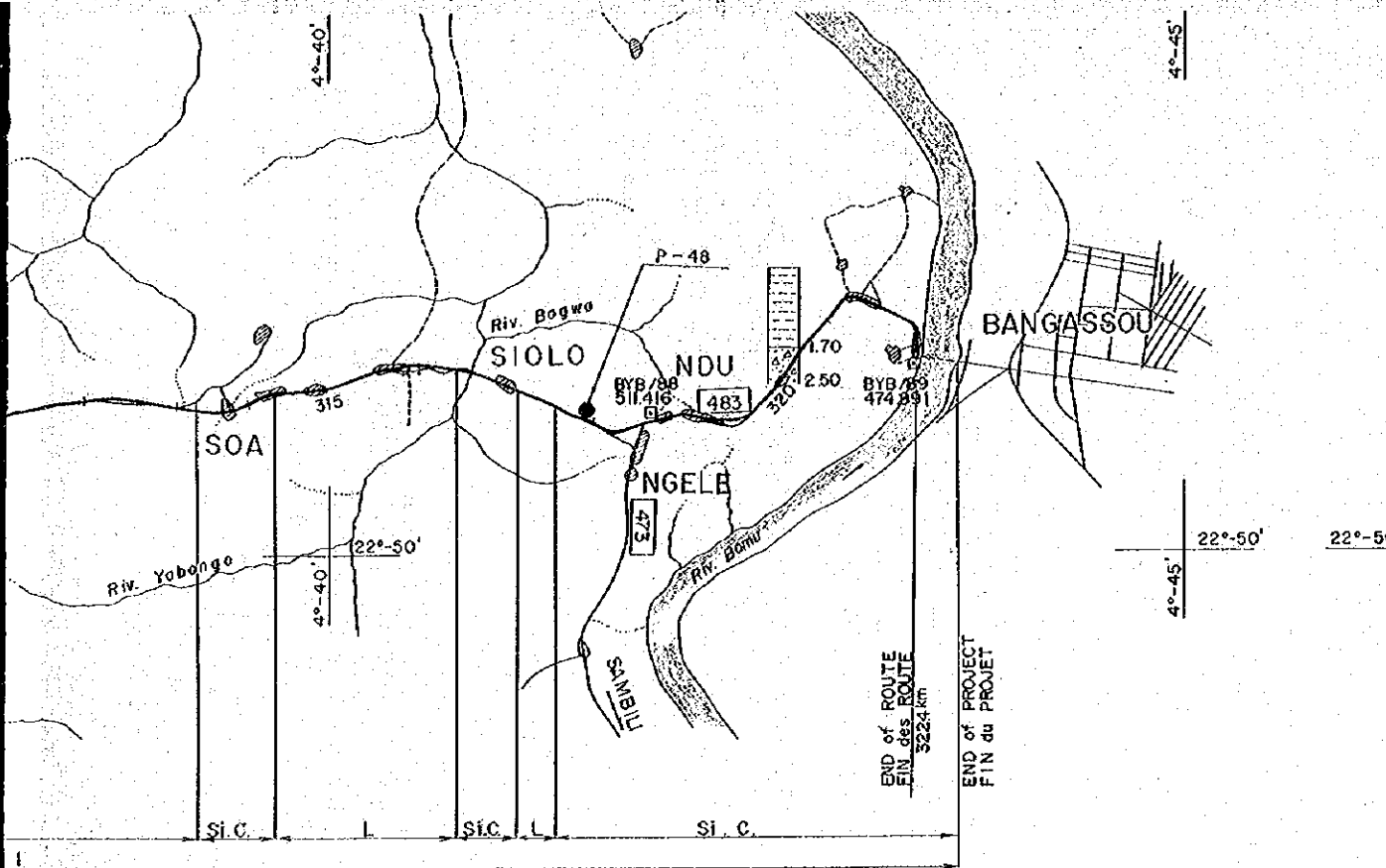
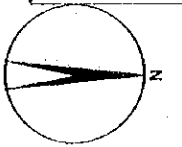
Scale
Echelle 1 : 50,000



LEGEND / LEGENDE

- | | | | |
|---------------------------------|---------|-------------------------|----|
| Ferry / Bac | --- | River / Rivière | ~ |
| Railway / Chemin de fer | —+—+—+— | Highland / Colline | ⌒ |
| Village / Village | ▨ | Plantation / Plantation | PL |
| House / Maison | — | Lowland / Terres Basses | ○ |
| Existing Road / Route Actuelle | — | | |
| Improved Road / Route Améliorée | — | | |

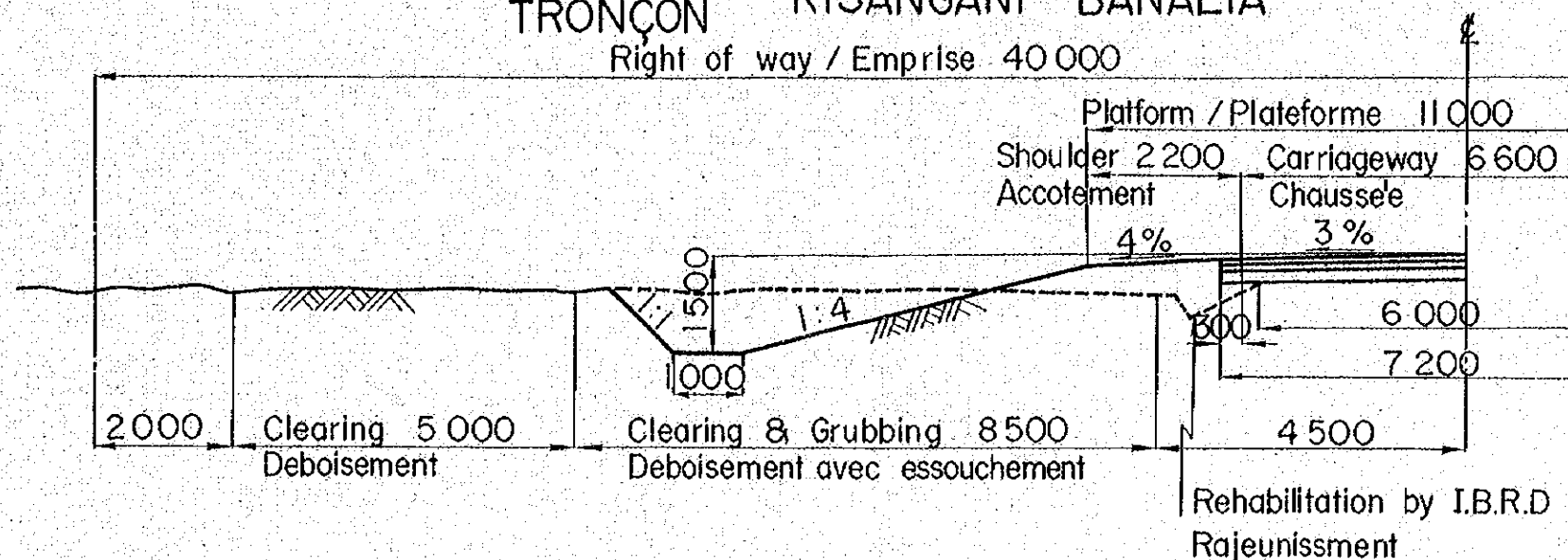




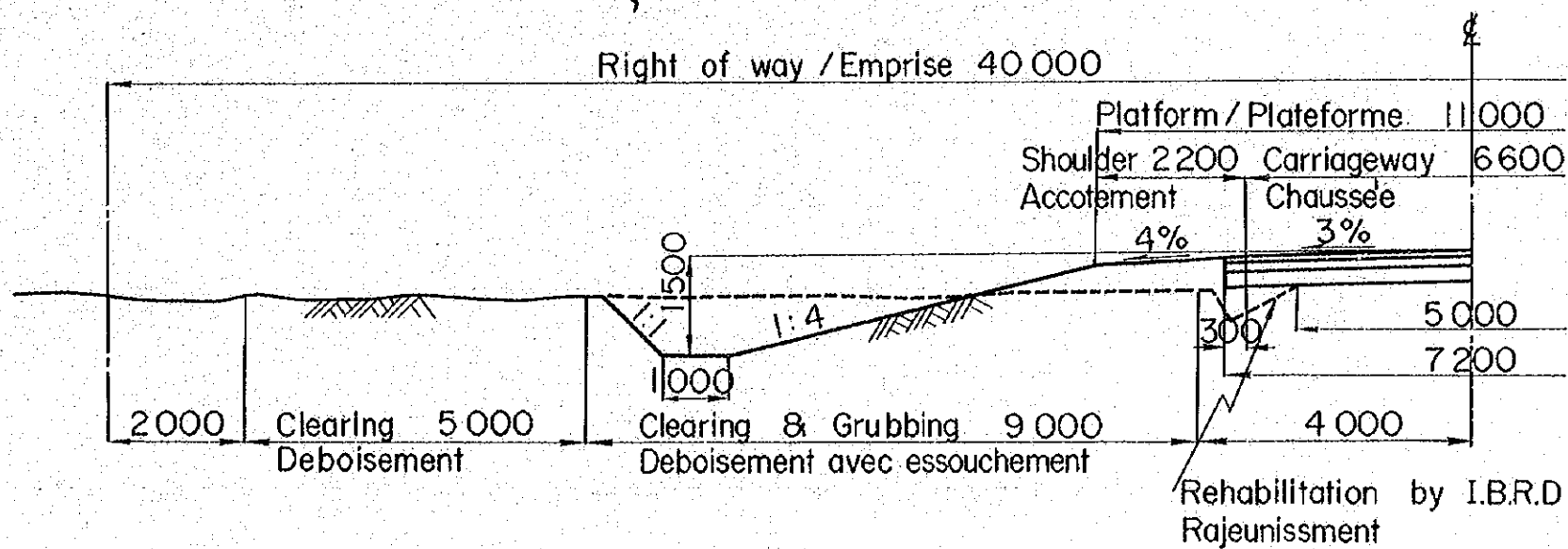
TYPICAL CROSS SECTIONS / PROFILS EN TRAVERS TYPE

Unit / Unité : mm

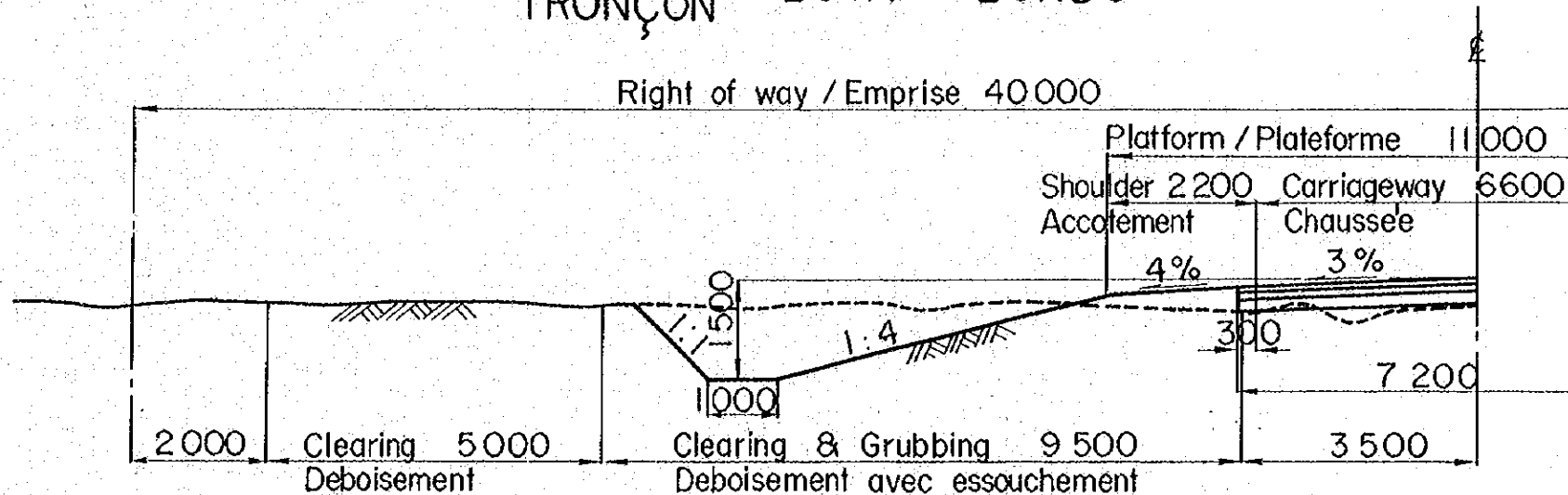
SECTION TRONÇON KISANGANI - BANALIA



SECTION TRONÇON BANALIA - BUTA



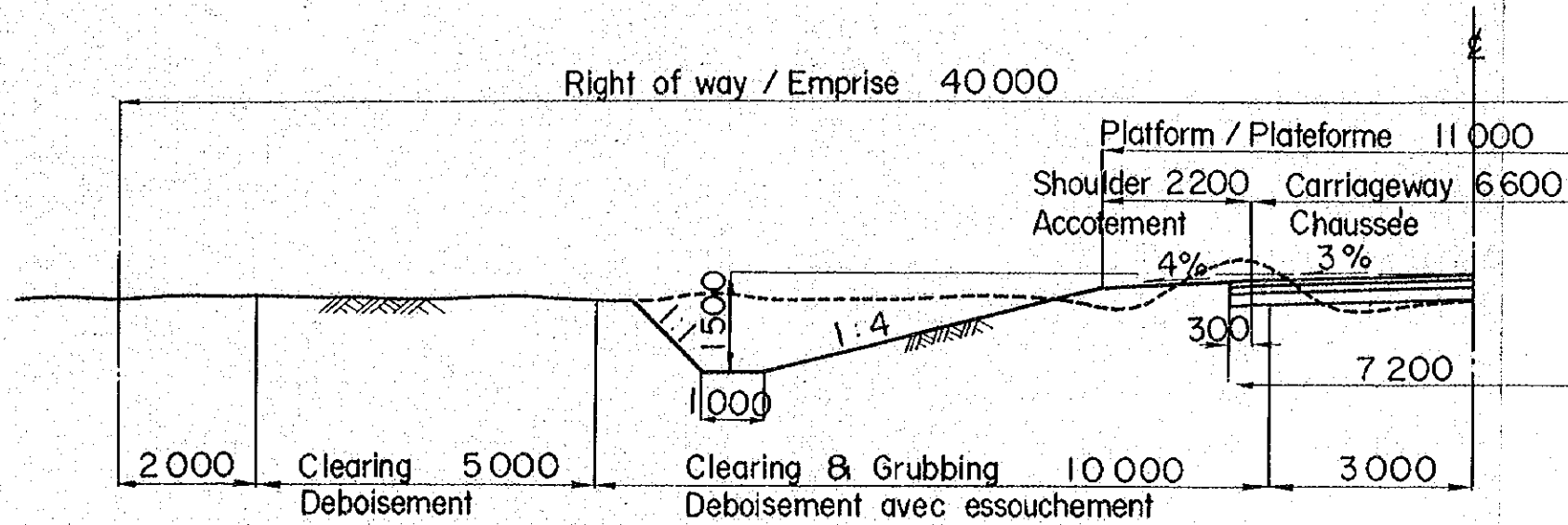
SECTION TRONÇON BUTA - BONDO



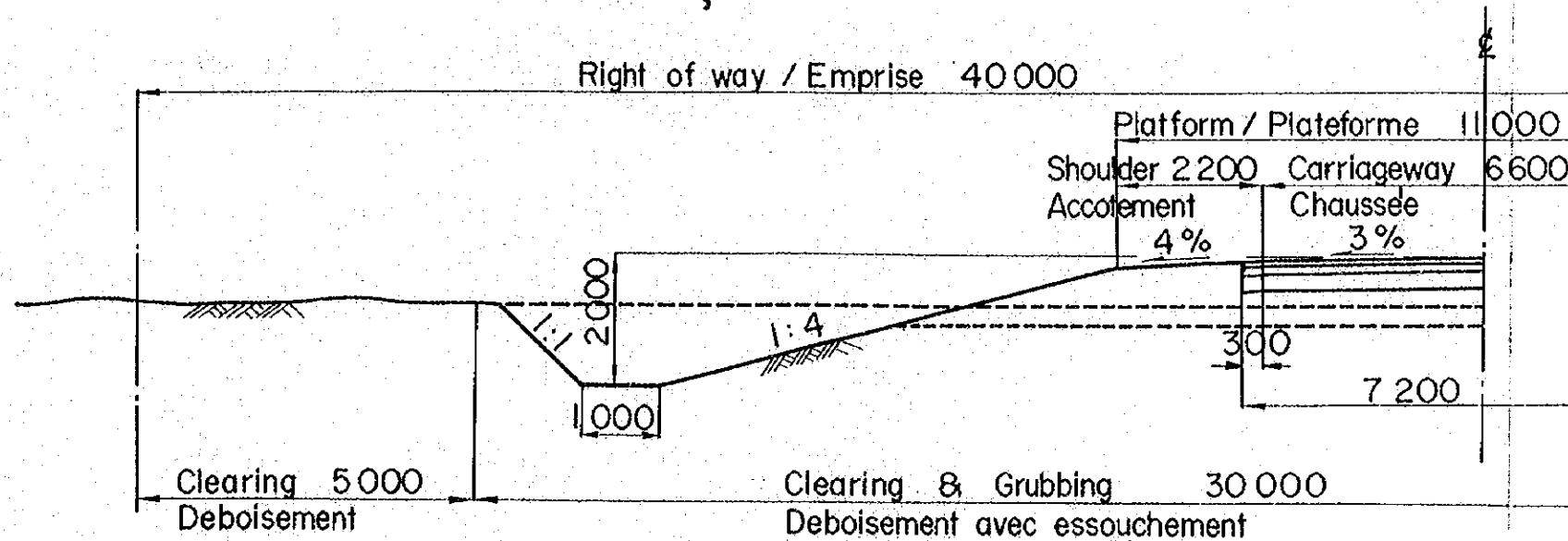
ALTERNATIVE - I
 ALTERNATIVE - I

TYPICAL CROSS SECTIONS / PROFILS EN TRAVERS TYPE

SECTION TRONÇON BONDO - NDU

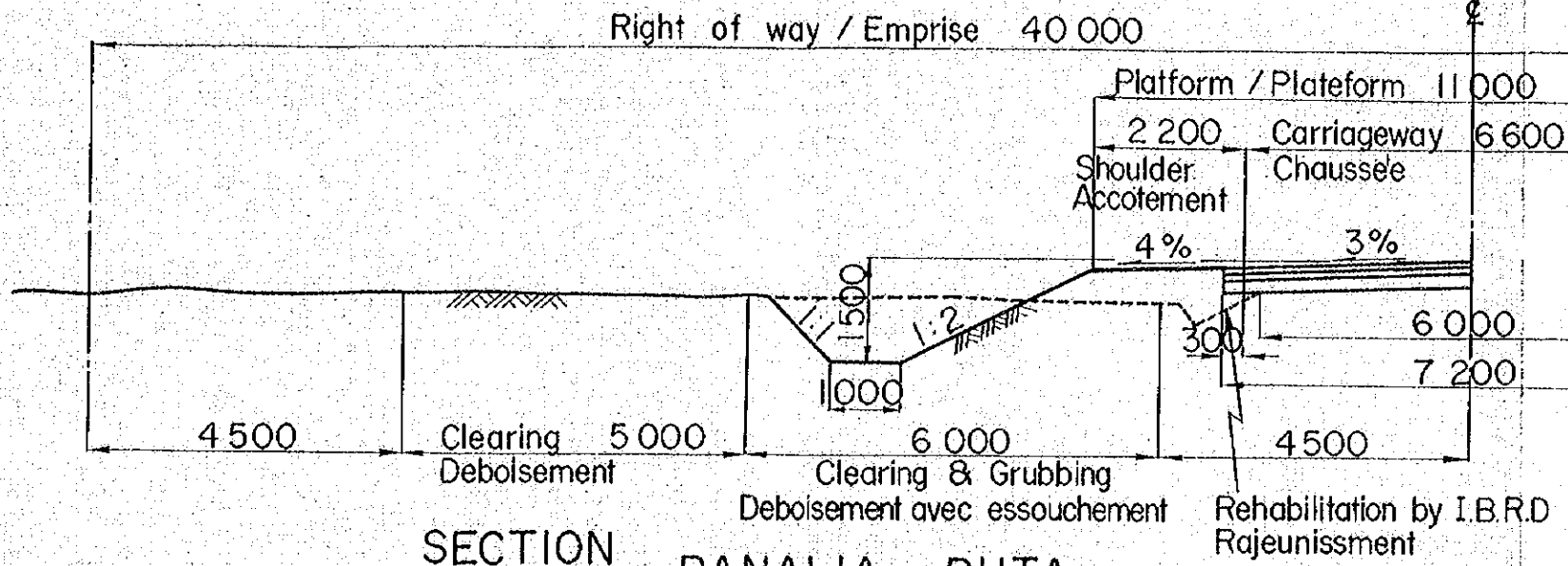


SECTION NEW ALIGNMENT TRONÇON

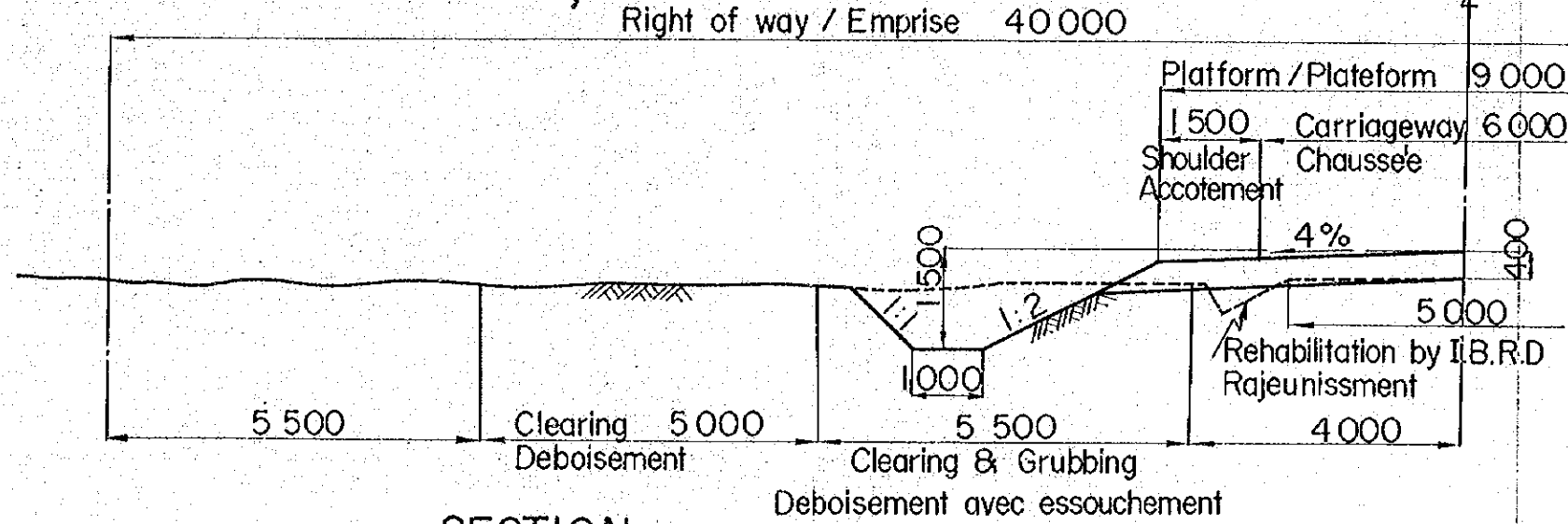


SECTION TRONÇON KISANGANI - BANALIA

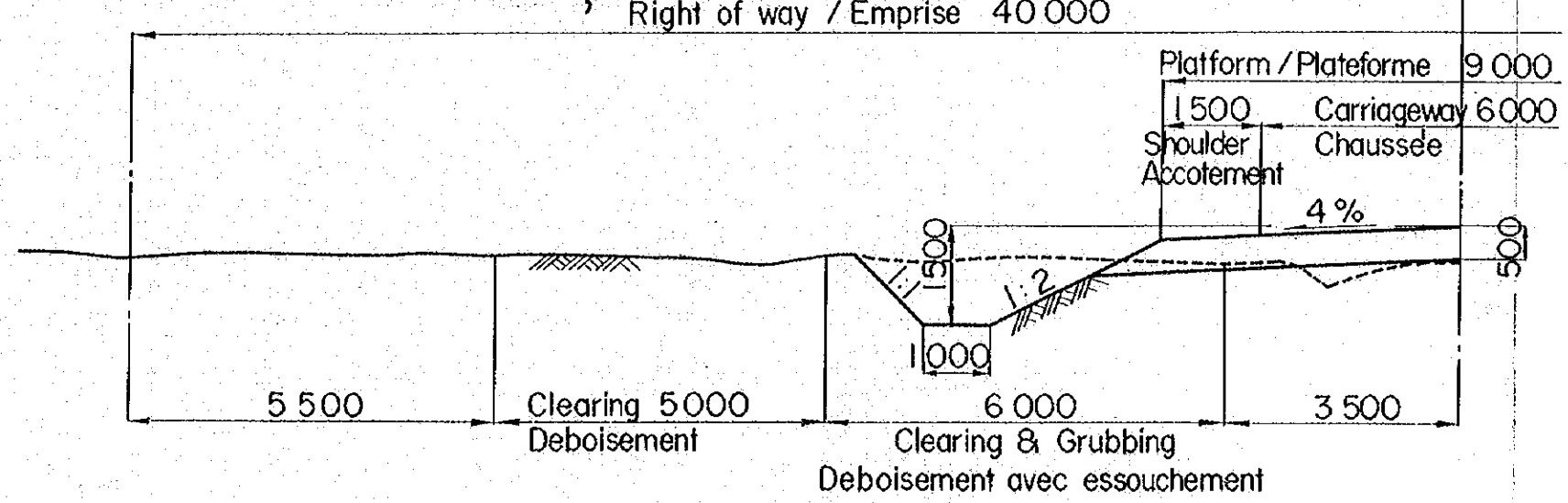
Unjt / Unité : mm



SECTION TRONÇON BANALIA - BUTA



SECTION TRONÇON BUTA - DULIA

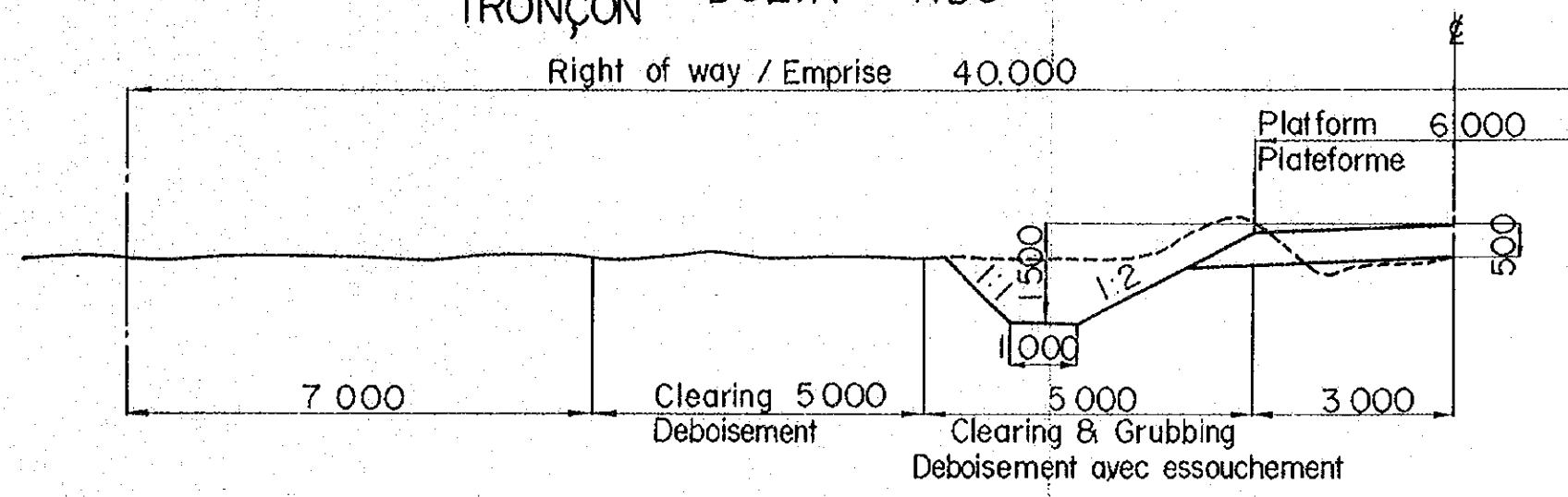


ALTERNATIVE - II
ALTERNATIVE - II

TYPICAL CROSS SECTIONS / PROFILS EN TRAVERS TYPE

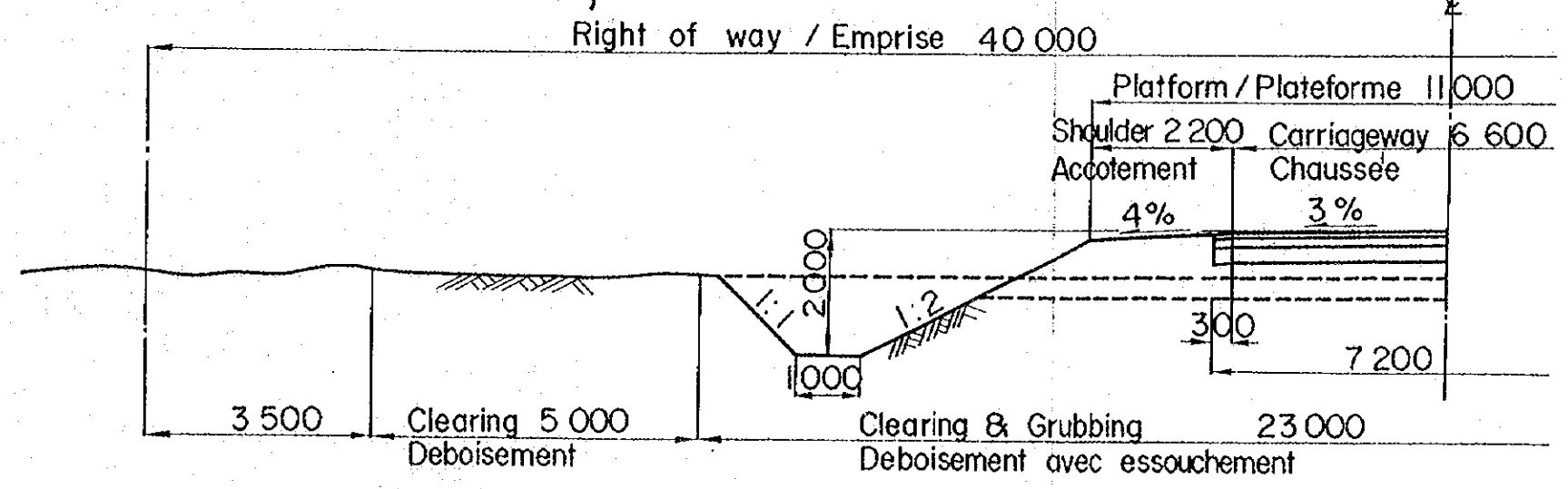
PLATE B-3-2
PLANCHE B-3-2

SECTION TRONÇON DULIA - NDU



NEW ALIGNMENT

SECTION TRONÇON KISANGANI - BANALIA

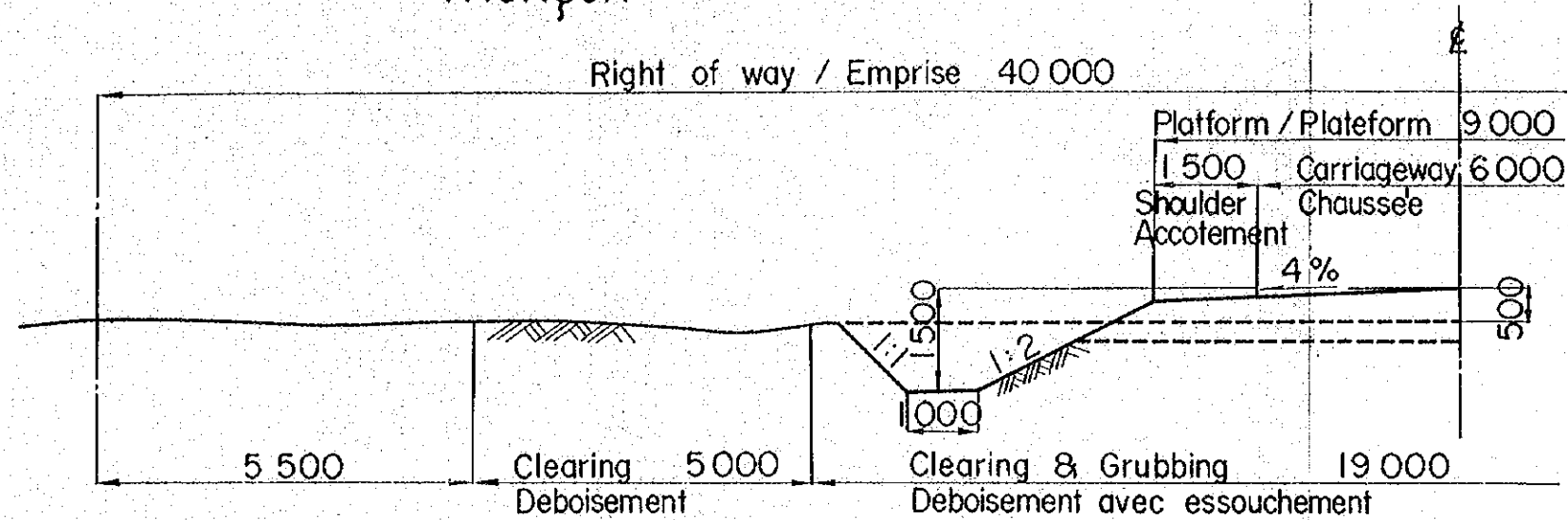


ALTERNATIVE - II
 ALTERNATIVE - II

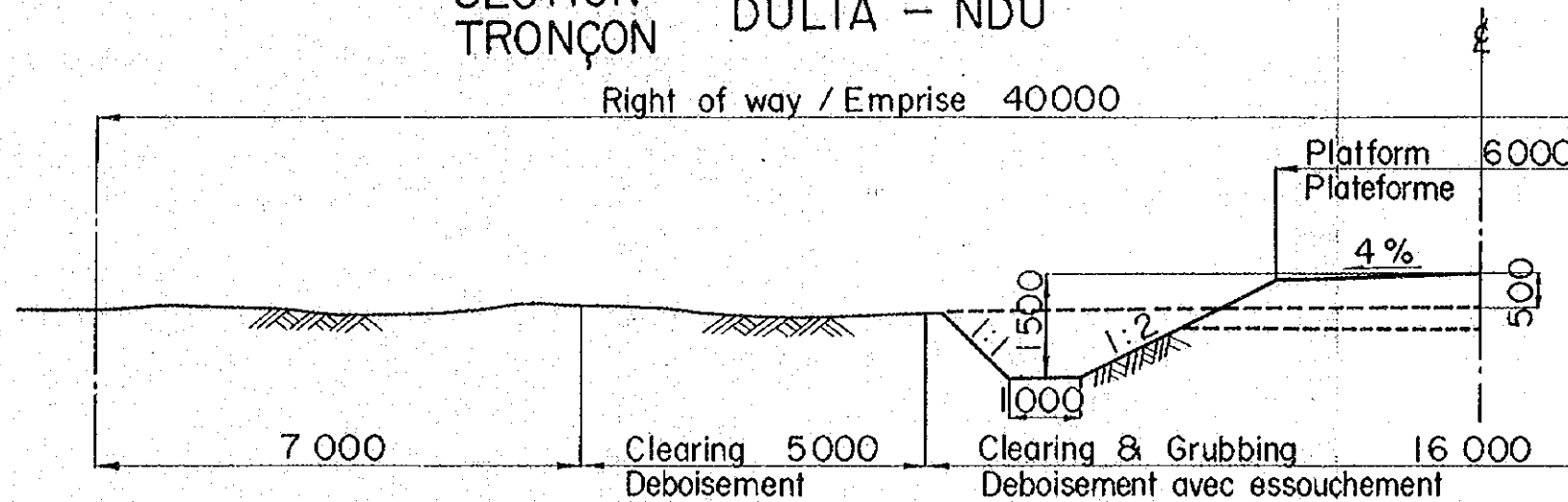
TYPICAL CROSS SECTIONS / PROFILS EN TRAVERS TYPE

NEW ALIGNMENT

SECTION TRONÇON BANALIA - DULIA



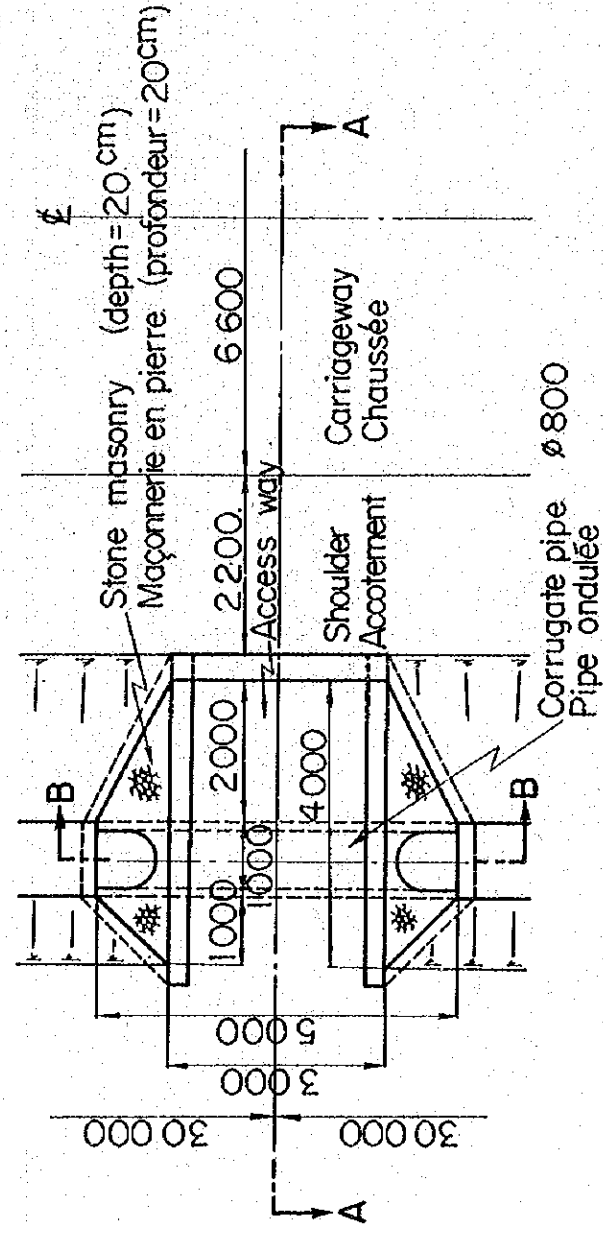
SECTION TRONÇON DULIA - NDU



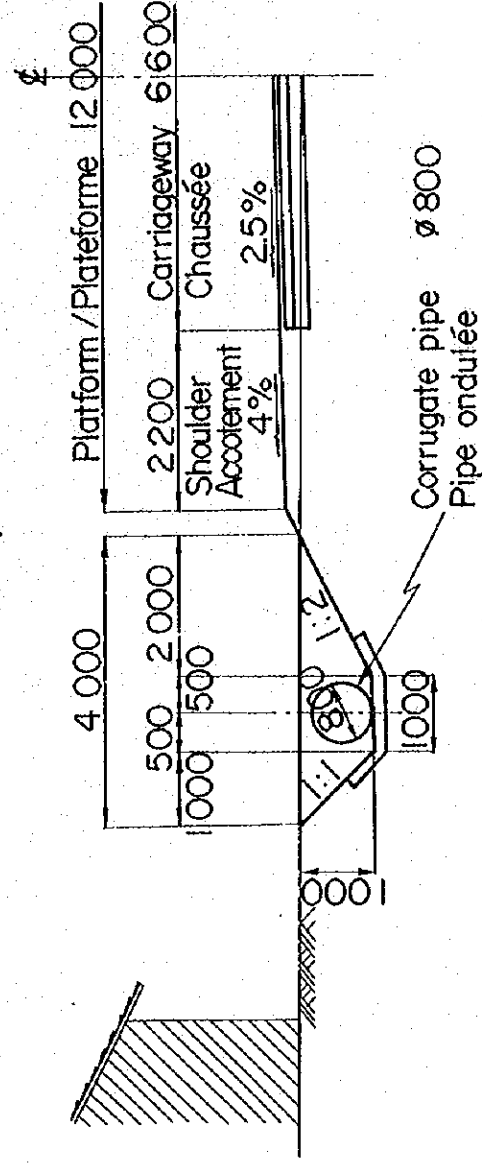
ALTERNATIVE - I SIDE-DITCH IN VILLAGE AREA & ACCESS WAY
 ALTERNATIVE - I CONTRE-FOSSE VILLAGE ET VOIE D'ACCÈS

Unit / Unité : mm

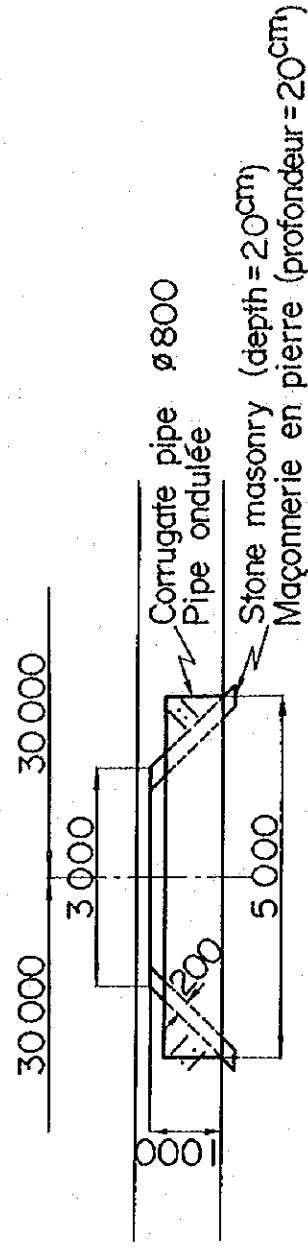
PLAN



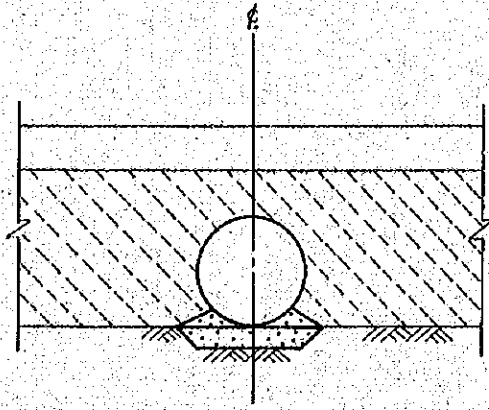
SECTION A - A
 TRONÇON



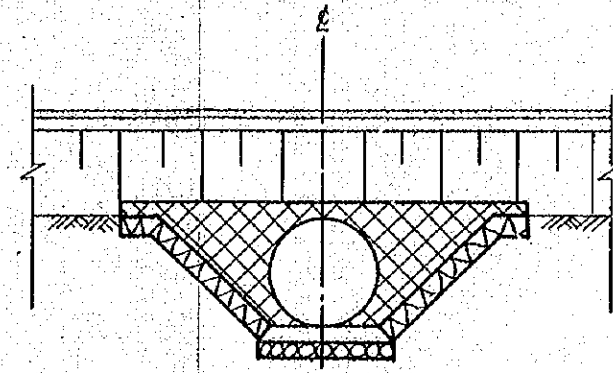
SECTION B - B
 TRONÇON



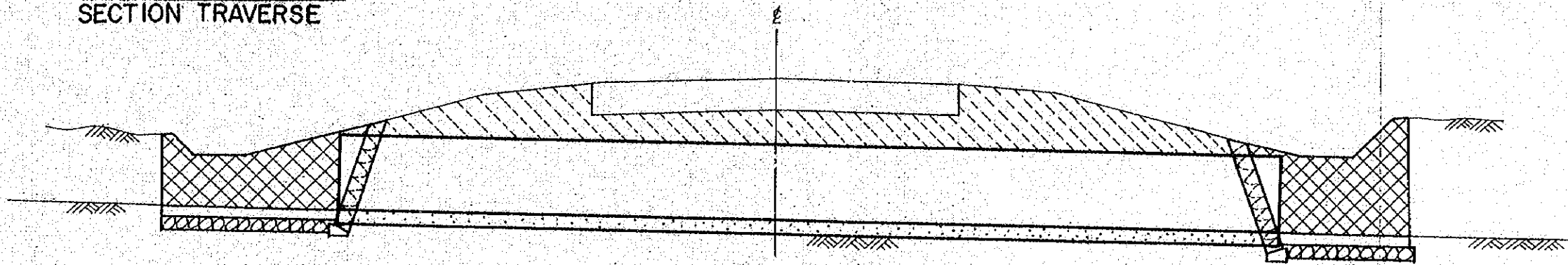
PIPE CULVERT BUSE



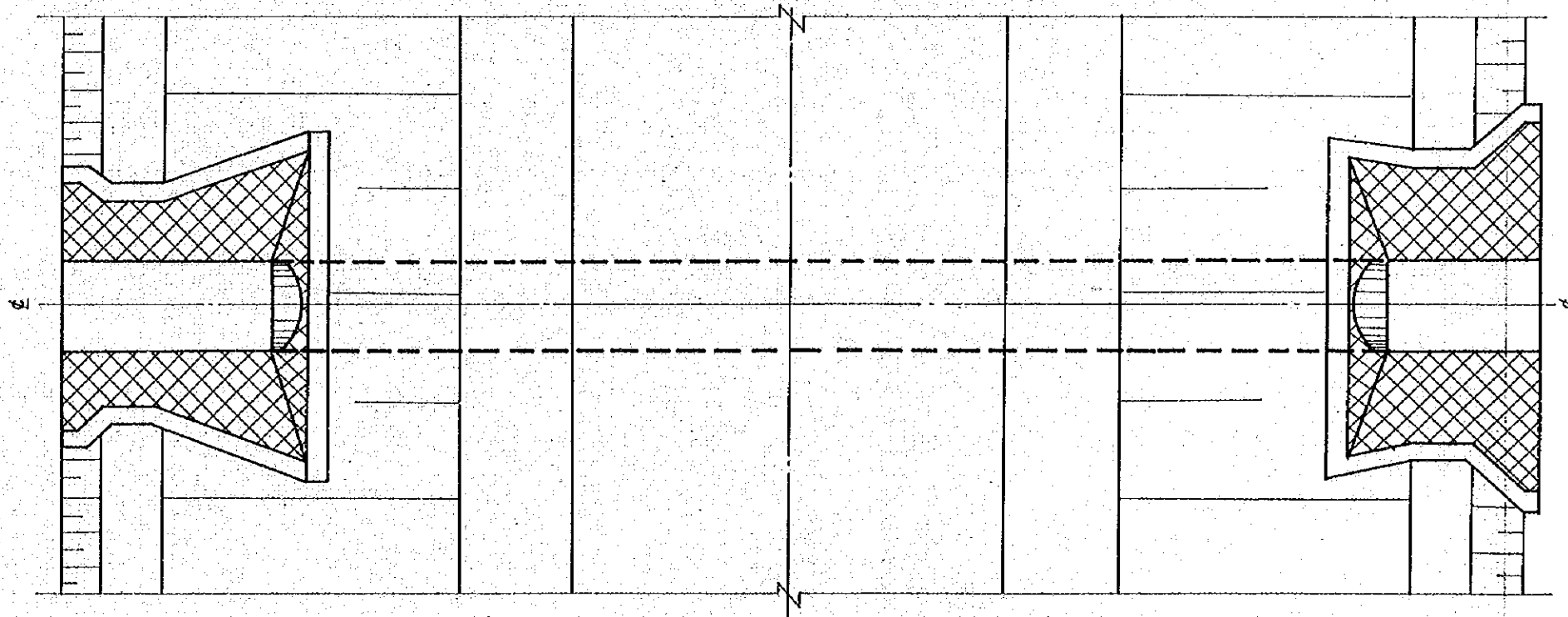
CROSS SECTION
SECTION TRAVERSE



ELEVATION

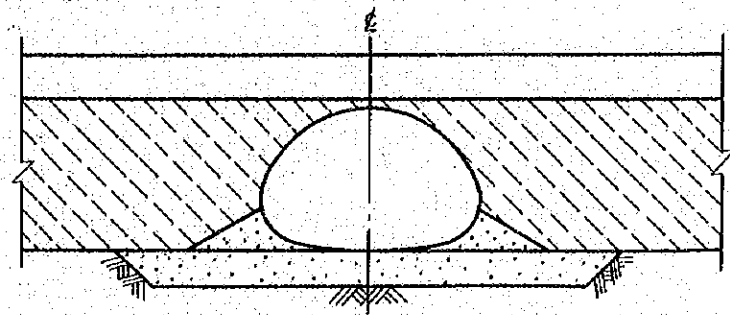


LONGITUDINAL SECTION
SECTION LONGITUDINALE



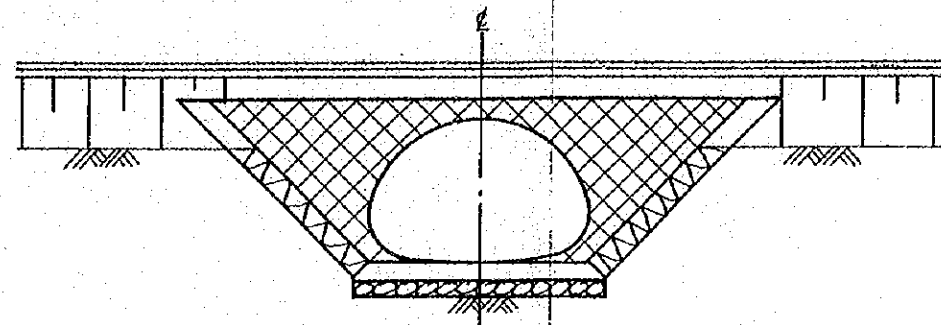
PLAN

PIPE CULVERT
(ARCHED TYPE)

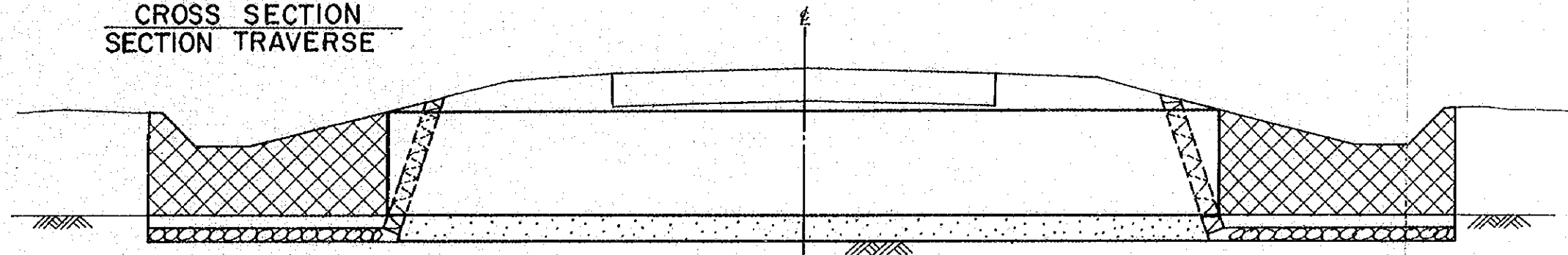


CROSS SECTION
SECTION TRAVERSE

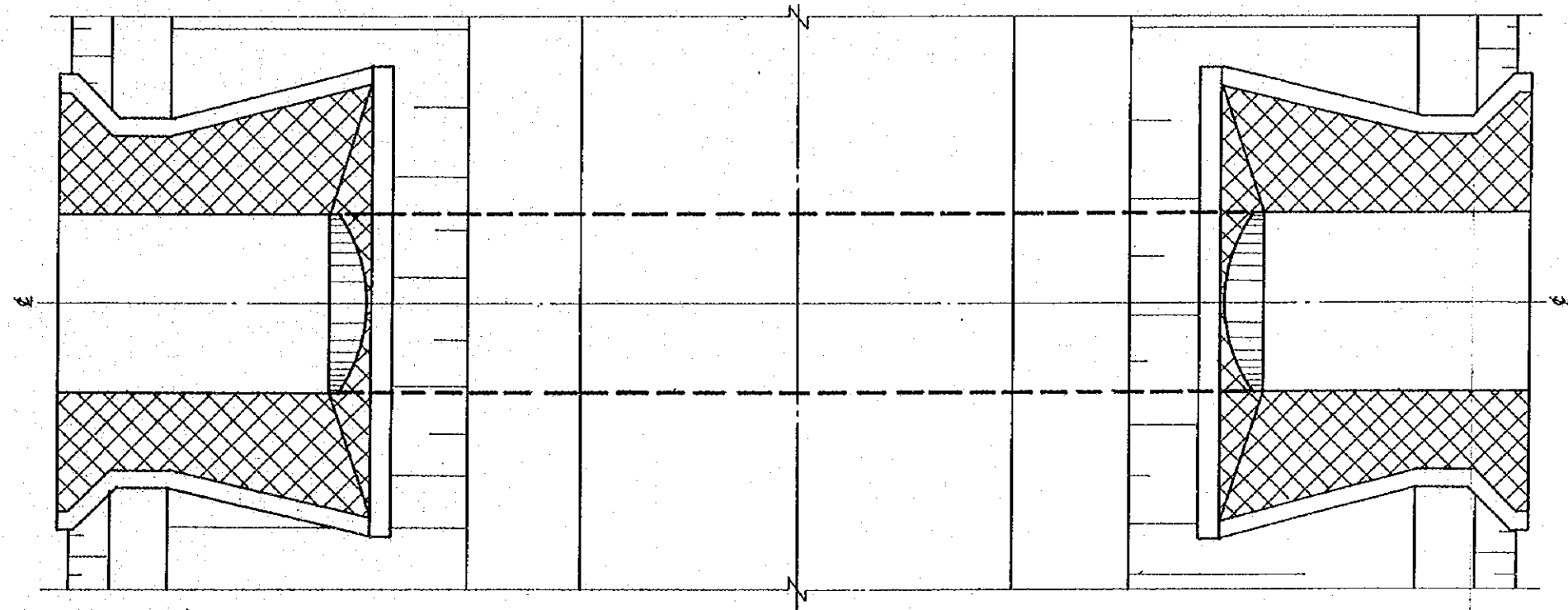
BUSE
(TYPE D'ARCHE)



ELEVATION



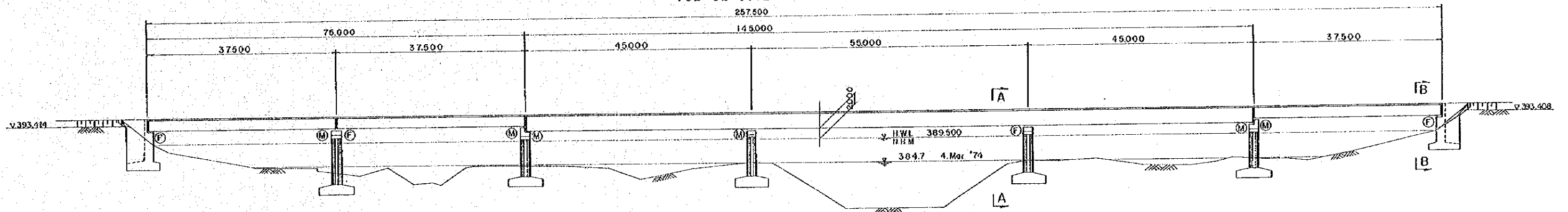
LONGITUDINAL SECTION
SECTION LONGITUDINALE



PLAN

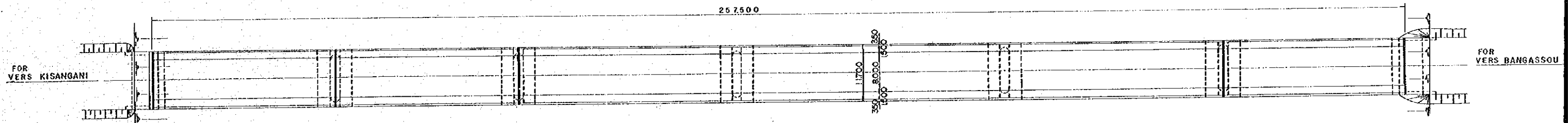
SIDE ELEVATION
VUE DE CÔTÉ

SCALE
ECHELLE 1:400



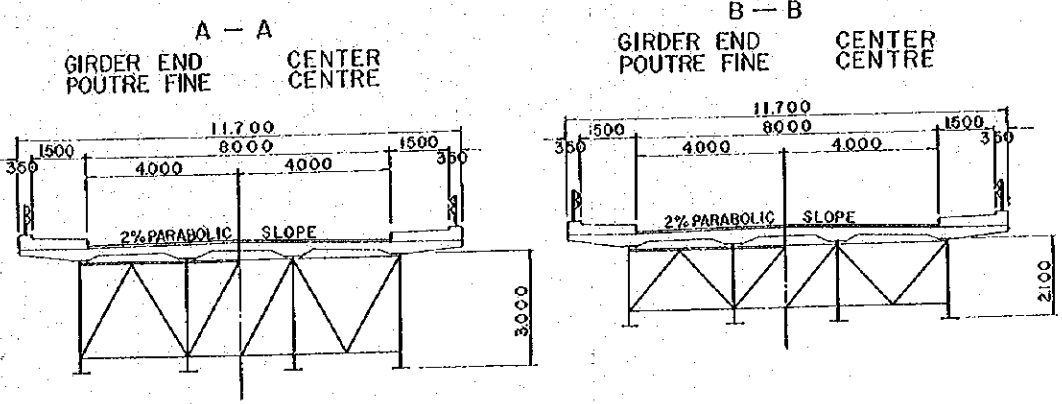
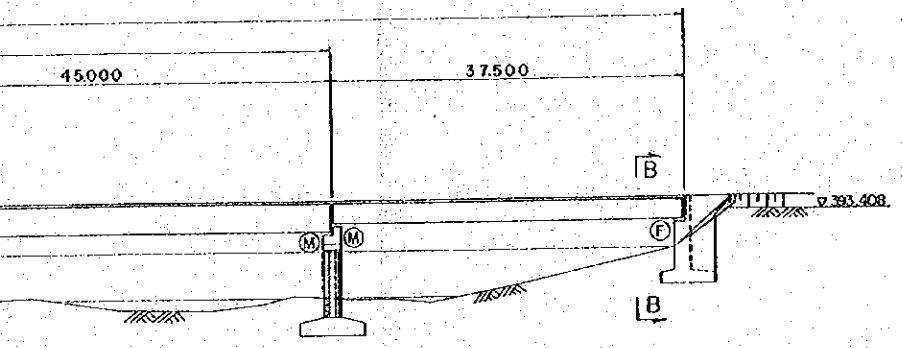
| | LEVEL NIEAU | | | | | | |
|--|----------------|---------|---------|---------|---------|---------|---------|
| SLOPE TALUS | | | | | | | |
| PROPOSED HEIGHT OF PAVEMENT ELEVATION DE REVÊTEMENT PROPOSÉ | 395.100 | 395.100 | 395.100 | 395.100 | 395.100 | 395.100 | 395.100 |
| GROUND HEIGHT ELEVATION DU TERRAIN | 393.5 | 393.5 | 394.5 | 394.5 | 394.5 | 394.5 | 393.5 |

PLAN SCALE
ECHELLE 1:400



TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE

SCALE
 ECHELLE 1:100

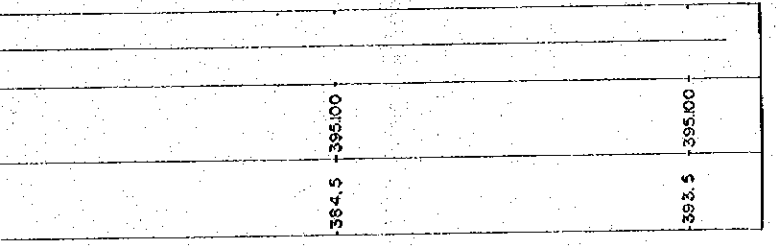


TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAIN

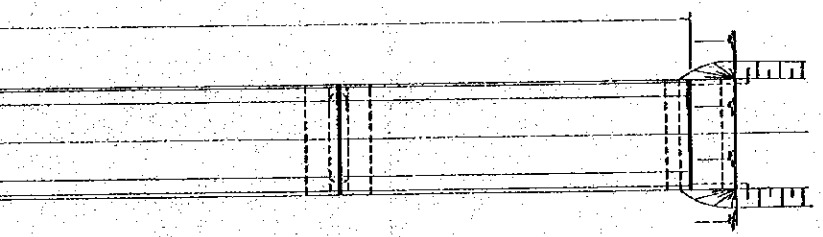
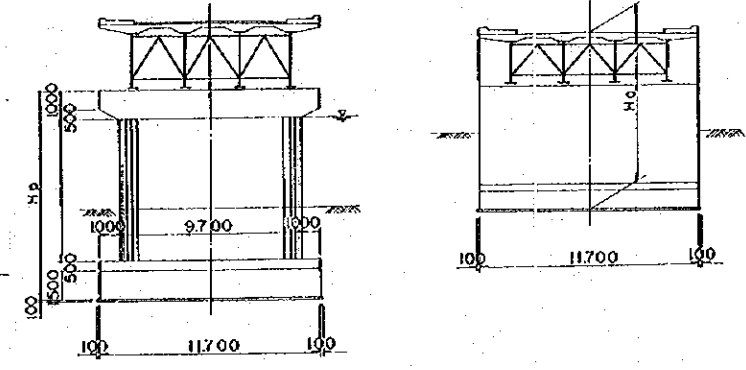
KISANGANI ~ BANGASSOU

GENERAL VIEW
 VUE D'ENSEMBLE

LINDI BRIDGE
 PONT



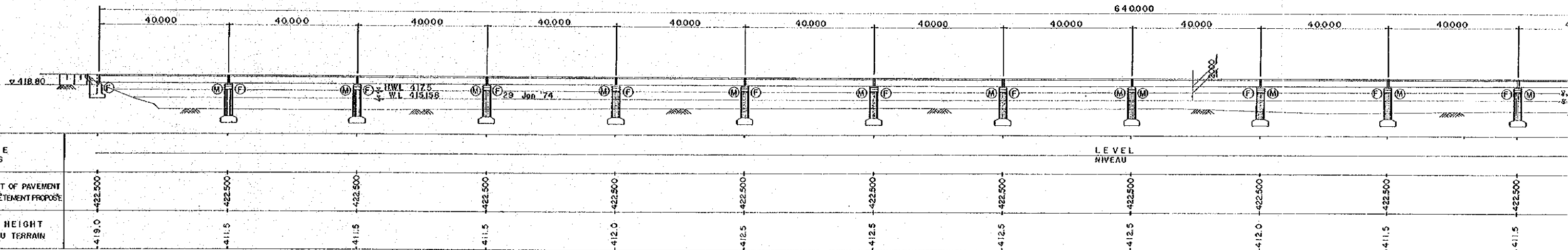
A -- A SCALE ECHELLE 1:200 B -- B



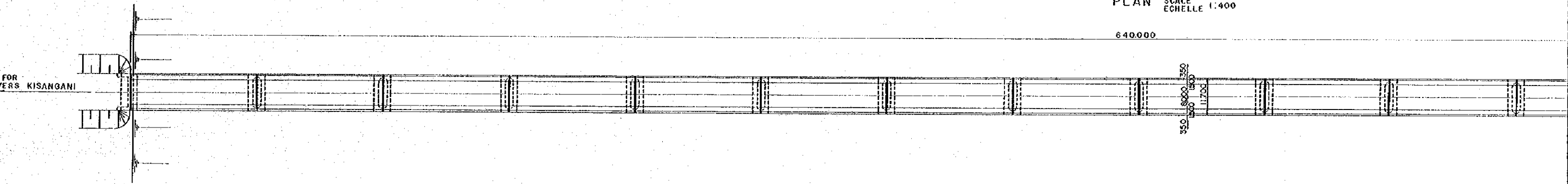
FOR
 VERS BANGASSOU

SIDE ELEVATION
VUE DE CÔTÉ

SCALE
ECHELLE 1:400

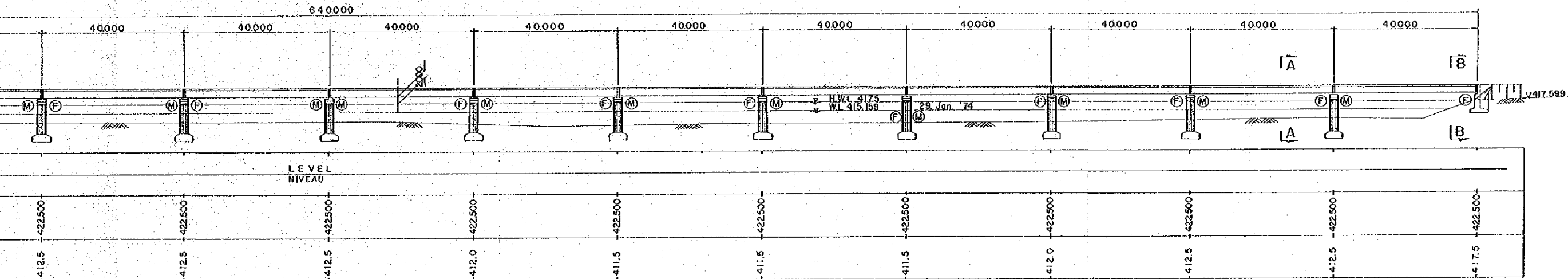


PLAN
SCALE
ECHELLE 1:400

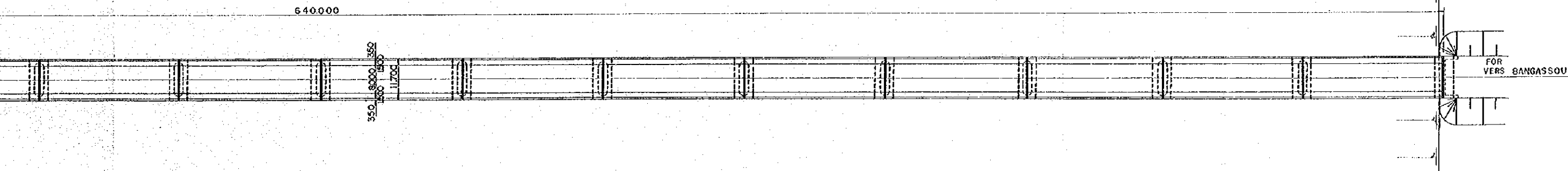


SIDE ELEVATION
VUE DE CÔTÉ

SCALE
ECHELLE 1:100

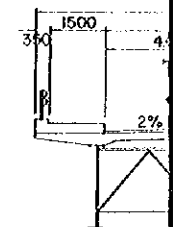


PLAN
SCALE
ECHELLE 1:400

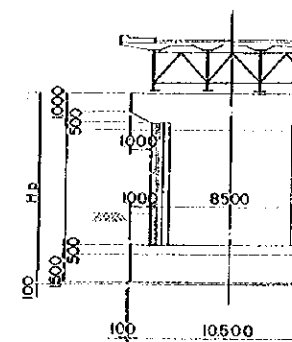


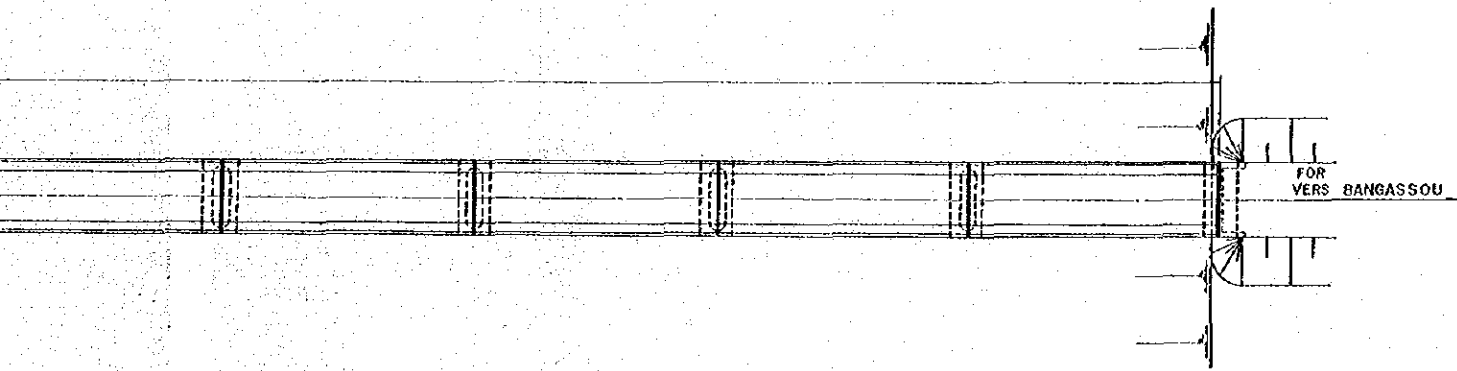
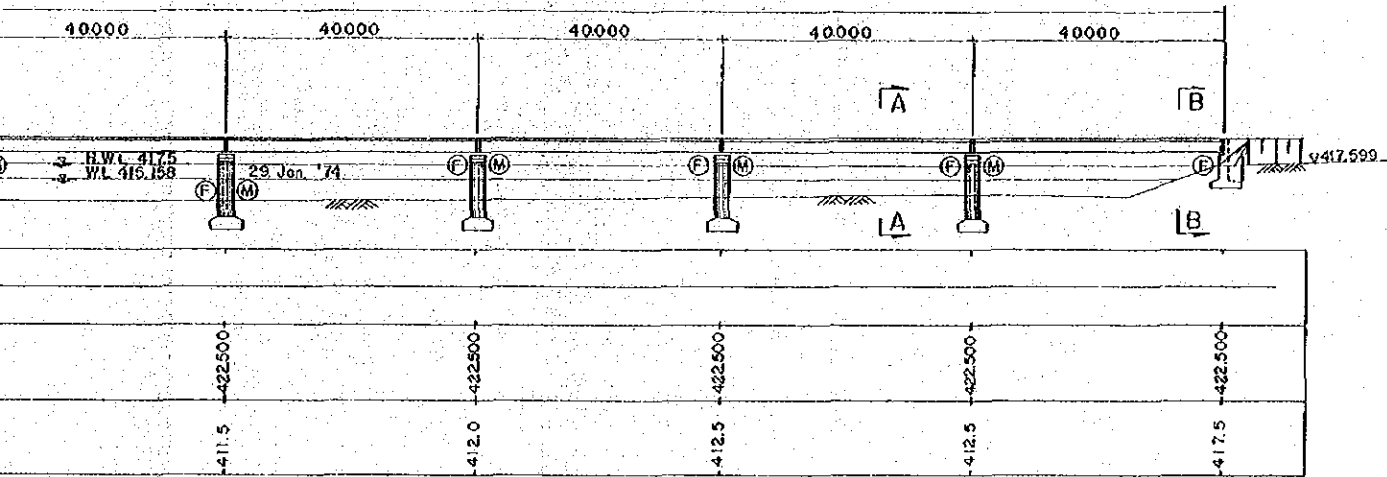
TYPICAL C.
VUE EN CO

GIRDER
POUTRE



A - A



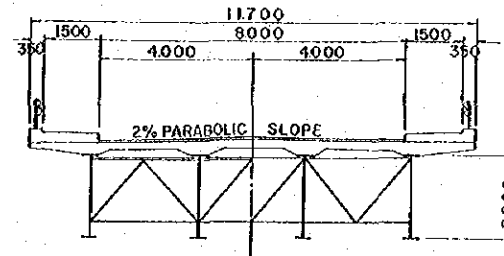


TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE

SCALE
 ECHELLE 1:100

GIRDER END
 POUTRE FINE

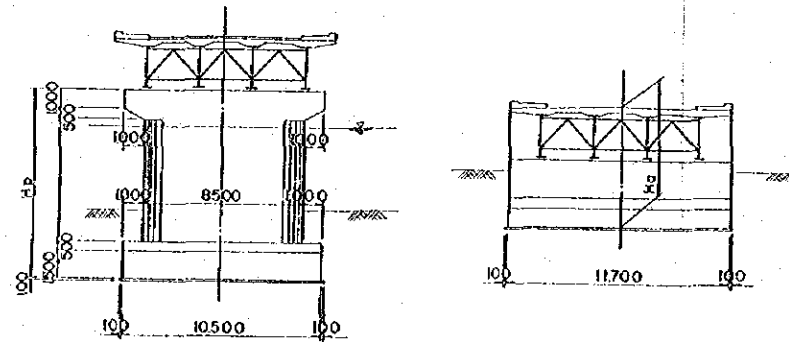
CENTER
 CENTRE



A - A

SCALE
 ECHELLE 1:200

B - B



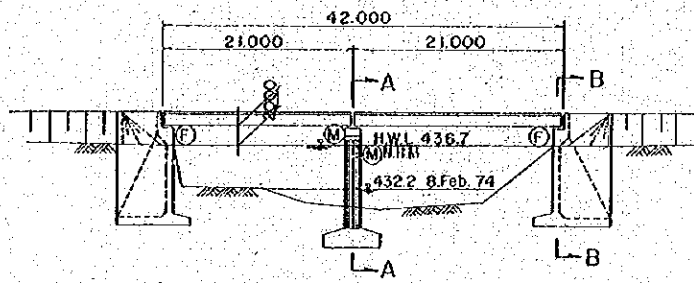
TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAINE

KISANGANI ~ BANGASSOU

GENERAL VIEW
 VUE D'ENSEMBLE

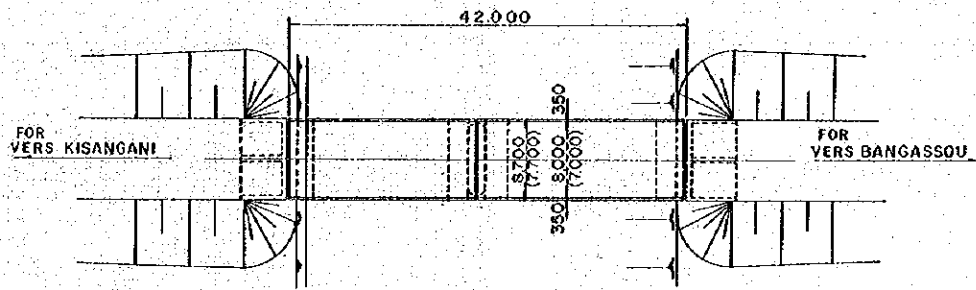
ARUWIMI BRIDGE
 PONT

SIDE ELEVATION
 VUE DE CÔTÉ SCALE
 ECHELLE 1:400

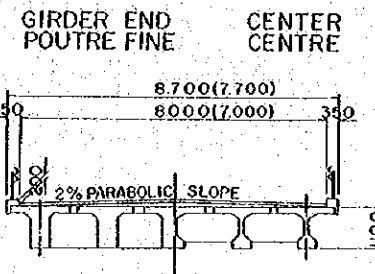


| | LEVEL NIVEAU | | |
|---|-----------------|---------|---------|
| HEIGHT OF PAVEMENT HAUTEUR DE PAVÉ | 440.200 | 440.200 | 440.200 |
| HEIGHT OF TERRAIN HAUTEUR DU TERRAIN | 436.7 | 430.2 | 436.7 |

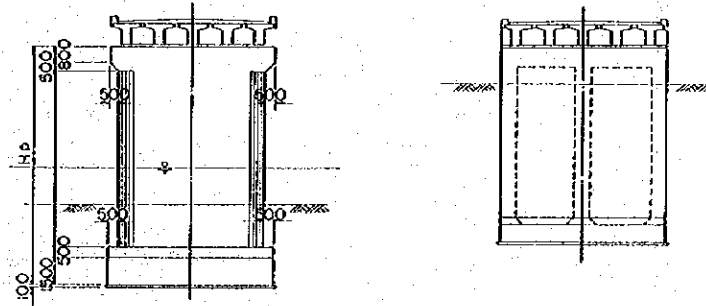
PLAN SCALE
 ECHELLE 1:400



TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE SCALE
 ECHELLE 1:100



A — A SCALE
 ECHELLE 1:200 B — B



TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAINE

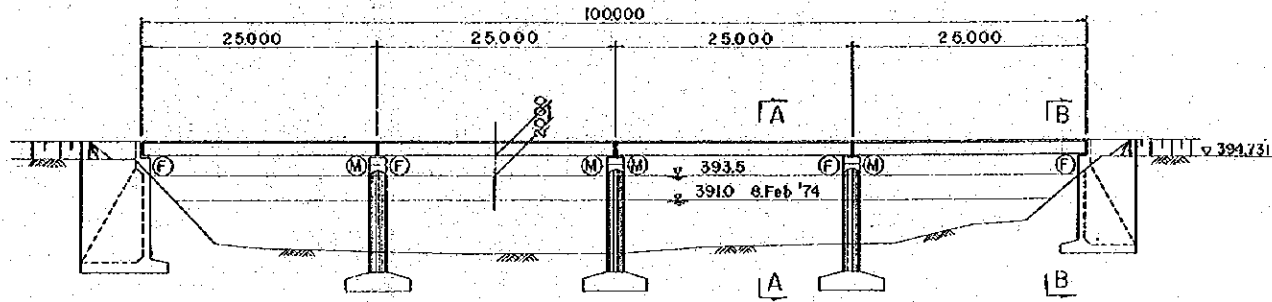
KISANGANI ~ BANGASSOU

GENERAL VIEW
 VUE D'ENSEMBLE

TELE BRIDGE
 PONT

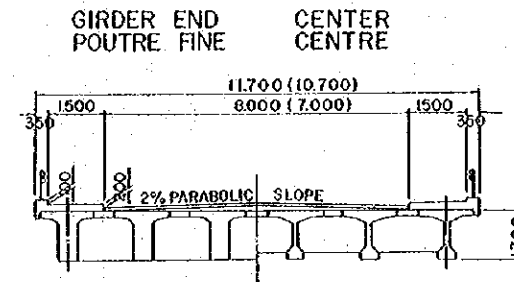
SIDE ELEVATION
 VUE DE CÔTÉ

SCALE
 ECHELLE 1:400



TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE

SCALE
 ECHELLE 1:100



TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAINÉ

KISANGANI ~ BANGASSOU

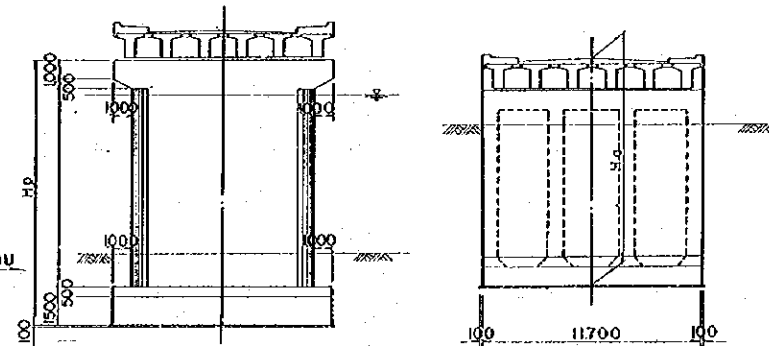
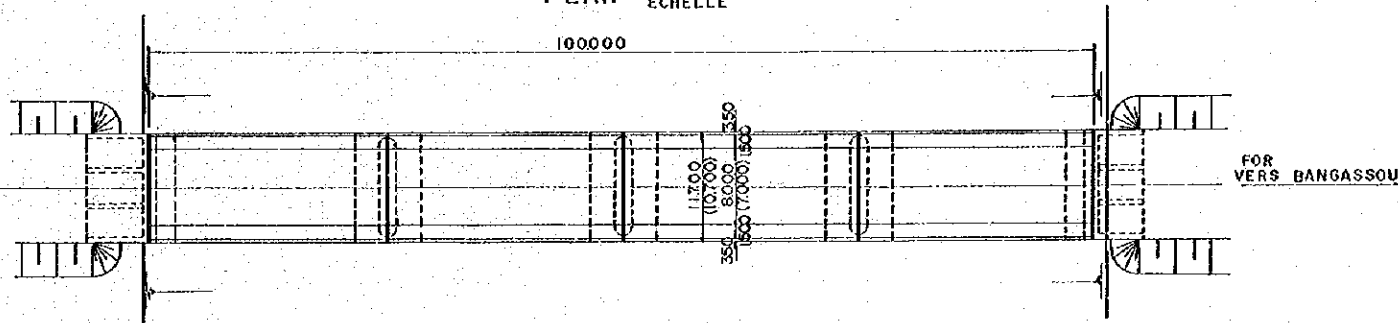
| | LEVEL NIVEAU | | | | |
|---|-----------------|---------|---------|---------|---------|
| HEIGHT OF PAVEMENT HAUTEUR DU REVÊTEMENT PROPOSÉ | 3922.65 | 3972.00 | 3972.00 | 3972.00 | 3972.00 |
| GROUND HEIGHT HAUTEUR DU TERRAIN | 395.3 | 386.5 | 386.5 | 386.5 | 395.3 |

A - A SCALE ECHELLE 1:200 B - B

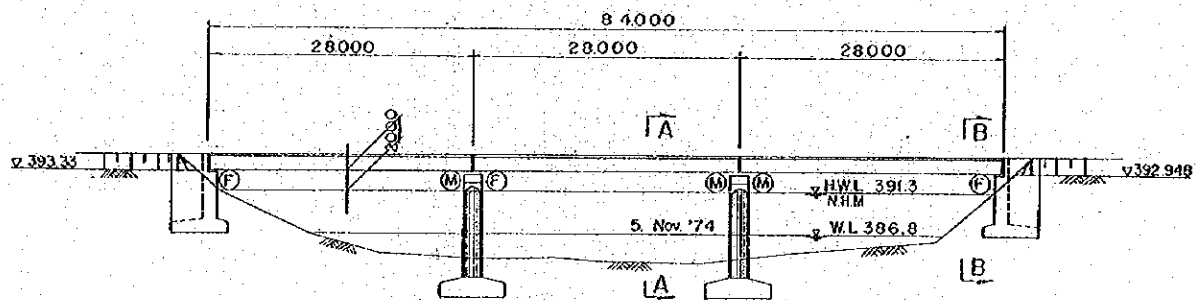
GENERAL VIEW
 VUE D'ENSEMBLE

RUBI BRIDGE
 PONT

PLAN SCALE ECHELLE 1:400

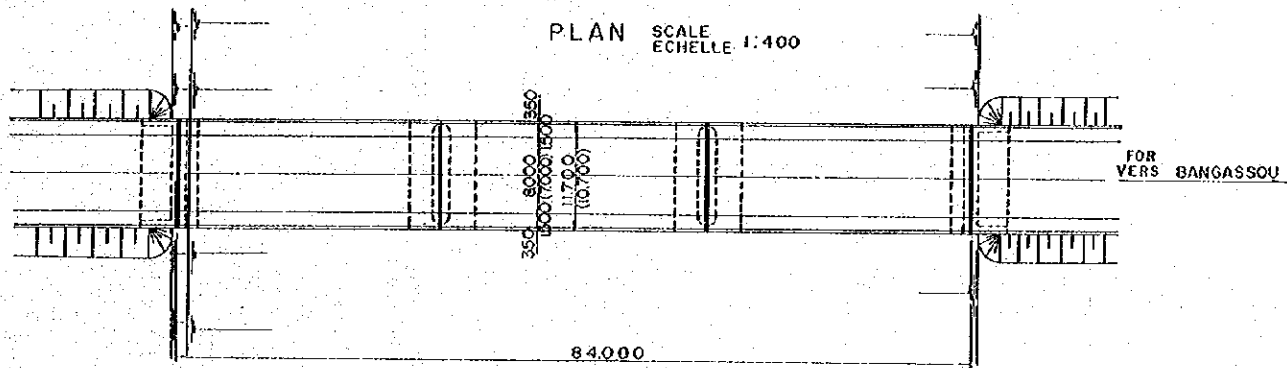


SIDE ELEVATION
 VUE DE CÔTE
 SCALE
 ECHELLE 1:400

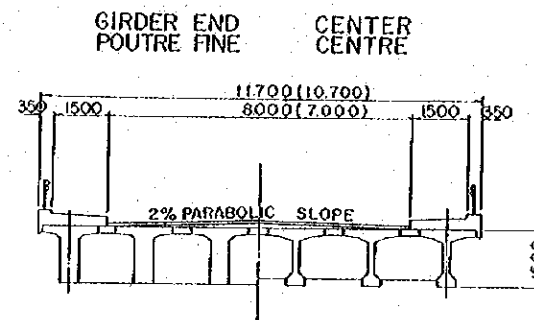


| PROPOSED PAVEMENT | LEVEL | NIVEAU |
|---|---------|---------|
| HEIGHT OF PAVEMENT HAUTEUR DU REVÊTEMENT PROPOSÉ | 395.200 | 395.200 |
| GROUND HEIGHT HAUTEUR DU TERRAIN | 393.3 | 393.3 |

PLAN
 SCALE
 ECHELLE 1:400



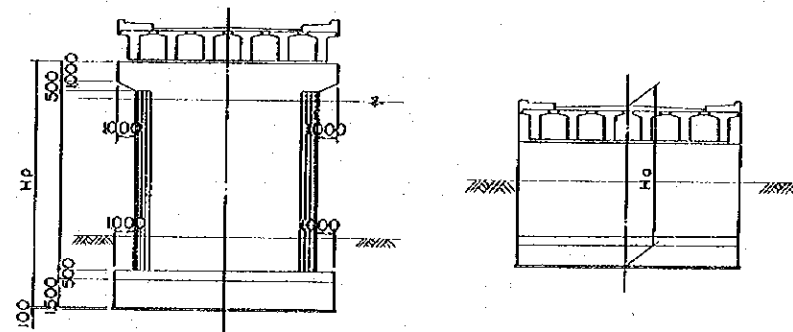
TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE
 SCALE
 ECHELLE 1:100



A - A

SCALE
 ECHELLE 1:200

B - B



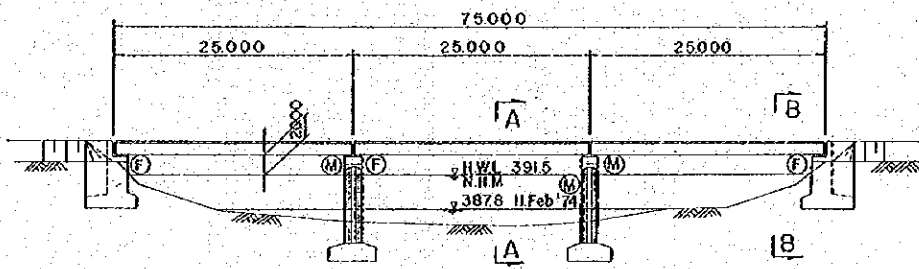
TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAIN

KISANGANI ~ BANGASSOU

GENERAL VIEW
 VUE D'ENSEMBLE

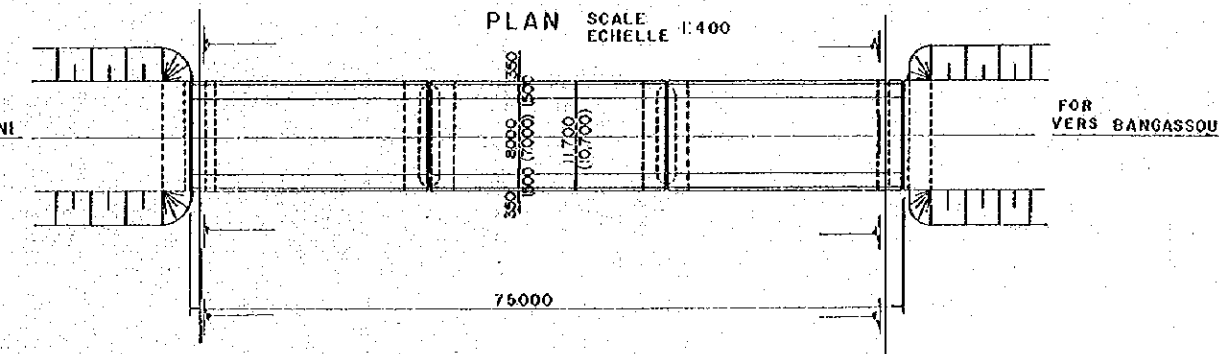
LIKATI BRIDGE
 PONT

SIDE ELEVATION
 VUE DE CÔTE
 SCALE
 ECHELLE 1:400

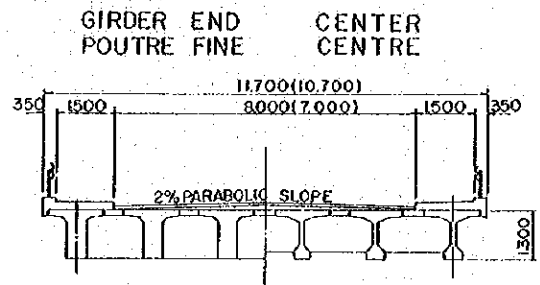


| GRADE NIVEAU | LEVEL NIVEAU | | | |
|---|-----------------|---------|---------|---------|
| HEIGHT OF PAVEMENT HAUTEUR DE REVÊTEMENT PROPOSÉ | 395.200 | 395.200 | 395.200 | 395.200 |
| GROUND HEIGHT HAUTEUR DU TERRAIN | 393.0 | 386.5 | 386.5 | 393.0 |

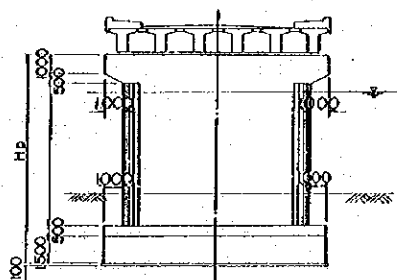
PLAN
 SCALE
 ECHELLE 1:400



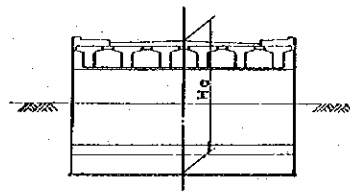
TYPICAL CROSS SECTIONS
 VUE EN COUPE TYPIQUE
 SCALE
 ECHELLE 1:100



A - A
 SCALE
 ECHELLE 1:200



B - B



TRANSAFRICAN HIGHWAY
 ROUTE TRANSAFRICAIN

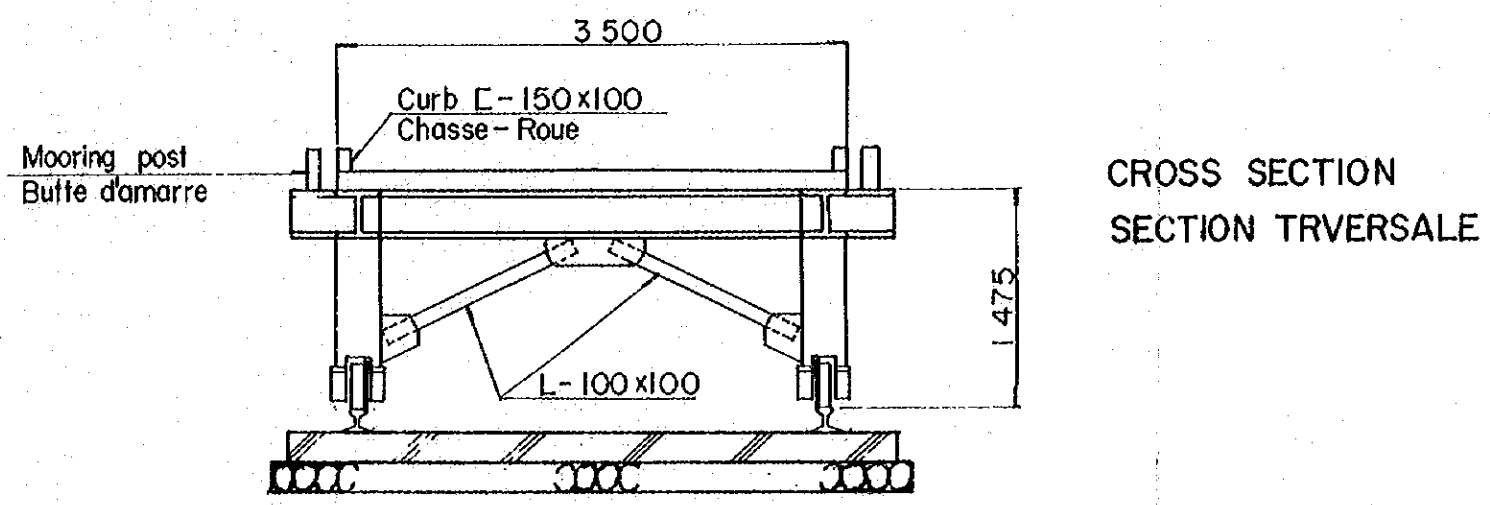
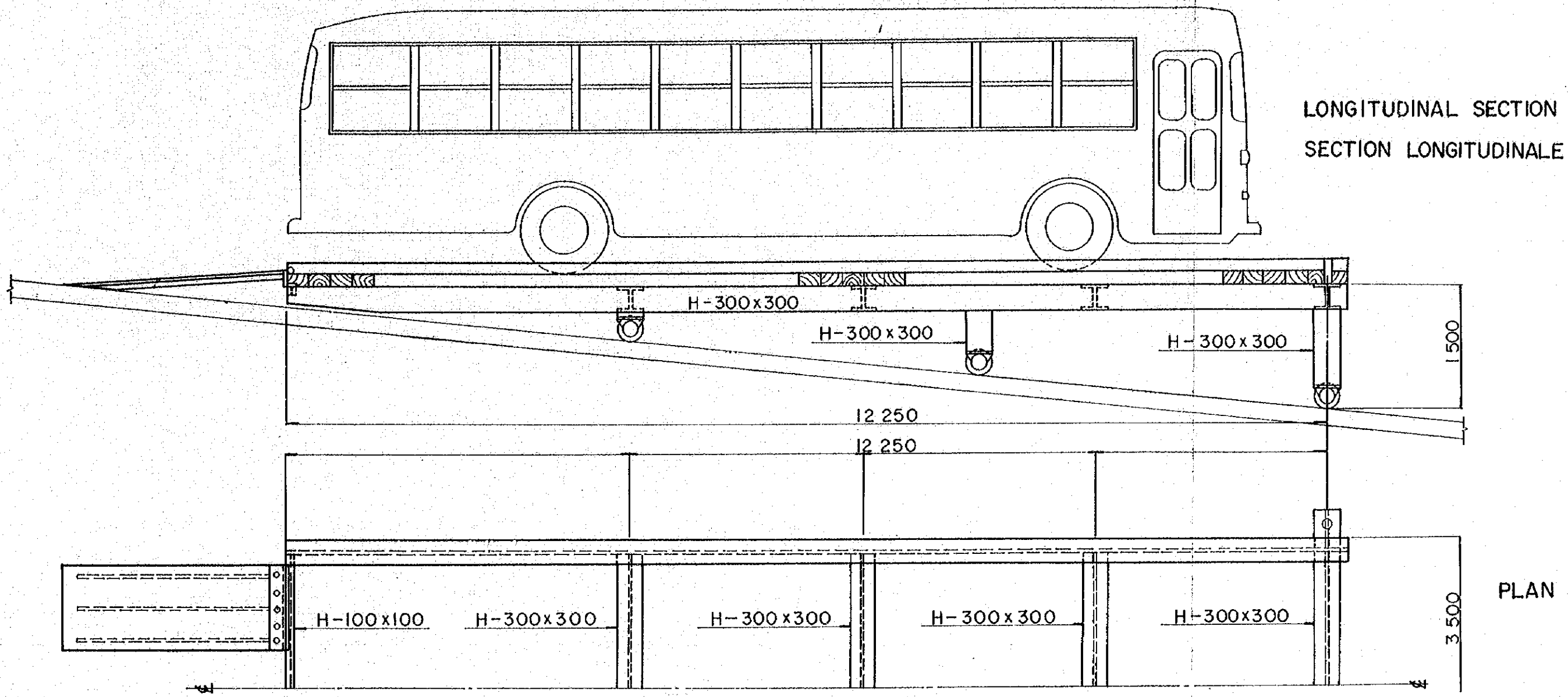
KISANGANI ~ BANGASSOU

GENERAL VIEW
 VUE D'ENSEMBLE

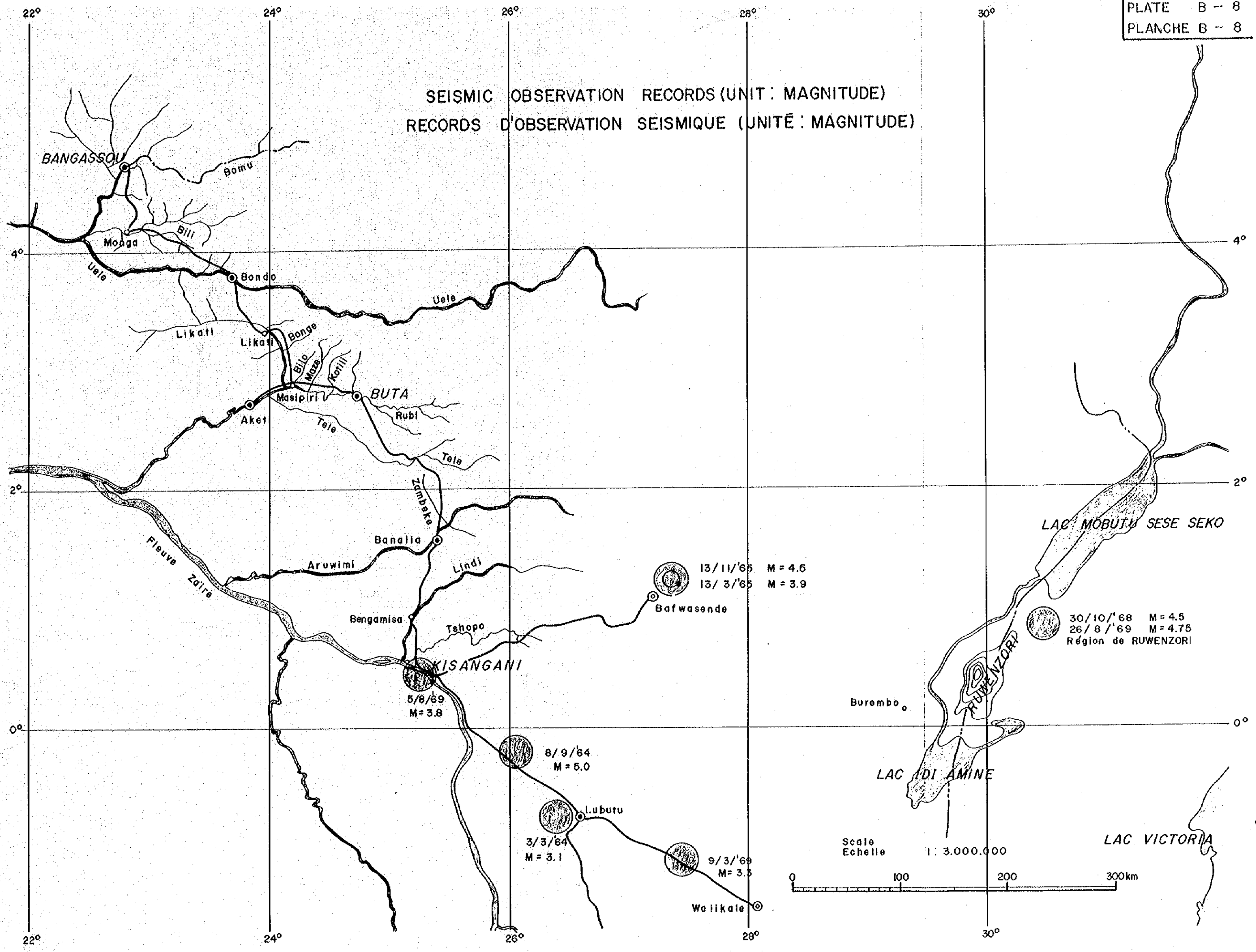
LIBOGO BRIDGE
 PONT

FERRY LANDING FACILITY
ROULANTE D'ACOSTAGE POUR LE BAC

Scale 1:50
Echelle 1:50



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 RECORDS D'OBSERVATION SEISMIQUE (UNITÉ : MAGNITUDE)



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