

V = 1:1000

H = 1:5000

CURVE  
 FUTURE GRADE  
 EXISTING GRADE  
 EXISTING RAIL LN  
 PROJECT RAIL LN  
 DIVING INCK  
 GRADE

LA = 35' 49" R = 425.76  
 LI = 253.52 TL = 30.57  
 S = 2' 40"

WALKWAY

423.14

500'

500'

500'

500'

335'

453.14  
335'

440.22

440.76

441.08

441.60

442.14

442.53

442.80

443.13

443.58

444.10

444.50

444.92

445.34

445.77

446.41

446.90

447.35

447.91

448.38

448.82

449.22

449.69

450.04

450.43

450.94

451.50

400.42

IA = 4728' R = 57299 CL = 494.73  
TL = 262.95 G = 2'00"

IA = 65'30" R = 572.93 CL = 655.03  
TL = 369.56 G = 4'00"

IA = 8'00" R = 657.57 CL = 972.00

500'

500'

500'

500'

400.42

408.06

477.51

478.06

478.50

478.98

479.43

479.82

479.94

480.25

480.70

481.21

481.83

482.36

482.8

483.32

484.00

484.46

484.95

485.46

485.88

486.37

486.84

400.43

IA: 81°00' R = 657.57 CL = 972.00 TL = 587.34 G = 1°40'

IA = 64.29° R = 659.45 CL = 367.25 TL = 542.90 G = 1°20'

IA = 56.17° R = 659.45 CL = 367.25 TL = 542.90 G = 1°20'



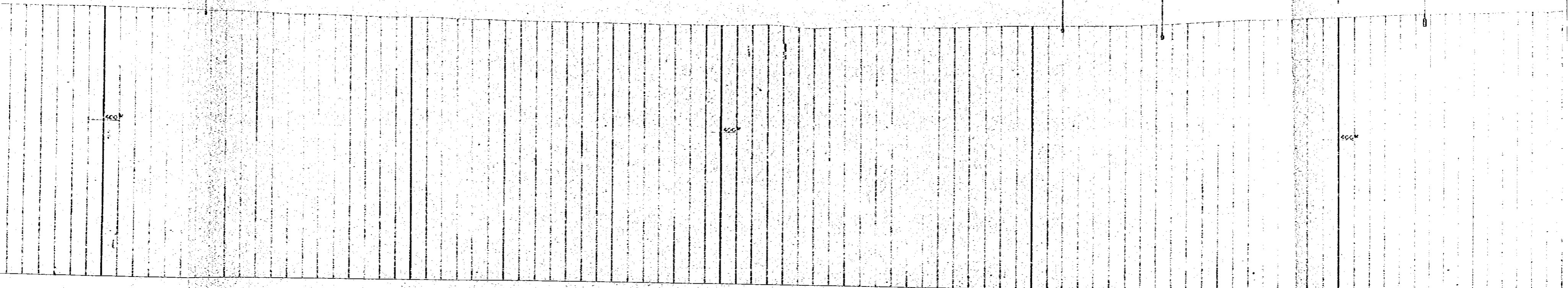
140

CB 2 1/2" x 2 1/2"  
346' + 350' 1/2"

CB 2 1/2" x 2 1/2"  
351' + 100' 20"

CB 2 1/2" x 2 1/2"  
351' + 419' 10"

CB 5" O.K.M.  
352' + 253' 10"



7 474.23  
 8 474.16  
 9 474.12  
 10 474.15  
 11 474.20  
 12 474.40  
 13 474.64  
 14 474.37  
 15 474.25  
 16 474.17  
 17 474.17  
 18 474.23  
 19 474.36  
 20 474.16  
 21 474.36  
 22 473.91  
 23 473.78  
 24 473.50  
 25 473.38  
 26 473.30  
 27 473.21  
 28 473.09  
 29 472.96  
 30 472.80  
 31 472.62  
 32 472.40  
 33 472.35  
 34 472.0  
 35 472.03  
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 37 471.70  
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 49 470.92  
 50 470.92  
 51 471.00  
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 75 472.70  
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 79 473.71  
 80 474.23  
 81 474.81  
 82 475.59  
 83 476.29  
 84 477.12  
 85 477.87  
 86 478.35  
 87 478.76  
 88 479.07  
 89 479.33  
 90 480.12  
 91 480.36  
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 93 481.24  
 94 481.73  
 95 482.22  
 96 482.62  
 97 483.05  
 98 483.51  
 99 483.62  
 100 484.06  
 101 484.33  
 102 484.72  
 103 485.33  
 104 485.90  
 105 486.33  
 106 486.71  
 107 487.07

TL = 658.31    G = 1° 00'

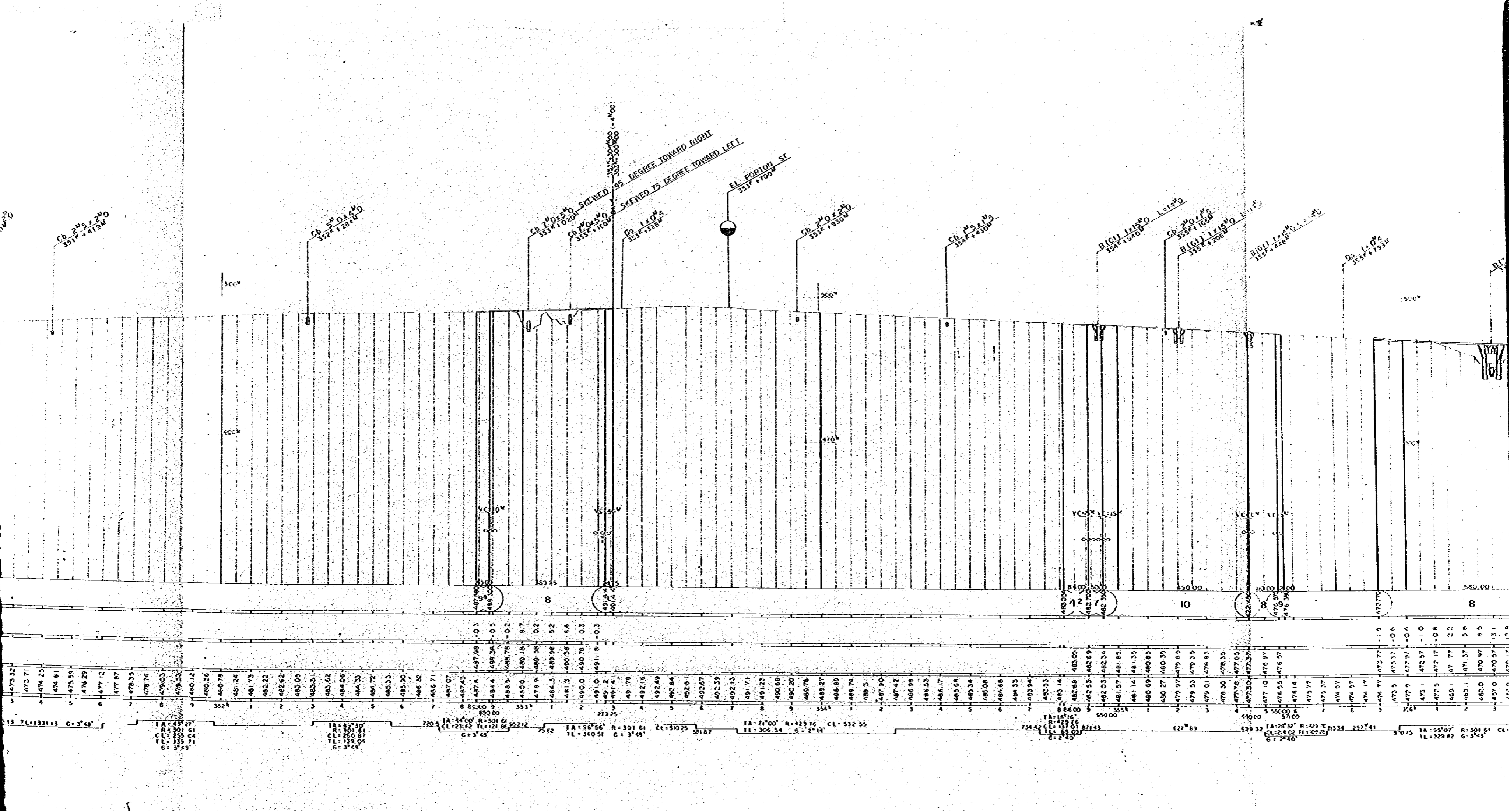
IA = 76° 58'  
 R = 301.61  
 CL = 415.70  
 FL = 248.18  
 G = 3° 48'

IA = 154° 20'    R = 301.61    CL = 813.13    FL = 331.13    G = 3° 49'

IA = 43° 29'  
 R = 301.61  
 CL = 255.04  
 FL = 135.71  
 G = 4° 48'

IA = 43° 29'  
 R = 301.61  
 CL = 260.87  
 FL = 139.04  
 G = 3° 48'

IA = 72° 58'    R = 301.61    CL = 415.70    FL = 248.18    G = 3° 48'



IA = 49° 27'  
 R = 301.61  
 CL = 260.87  
 TL = 135.04  
 G = 3° 49'

IA = 49° 30'  
 R = 301.61  
 CL = 260.87  
 TL = 135.04  
 G = 3° 49'

IA = 44° 00'  
 R = 301.61  
 CL = 233.62  
 TL = 121.86  
 G = 3° 49'

IA = 56° 56'  
 R = 301.61  
 CL = 510.25  
 TL = 310.51  
 G = 3° 49'

IA = 71° 00'  
 R = 429.76  
 CL = 532.55  
 TL = 306.54  
 G = 2° 14'

IA = 18° 16'  
 R = 439.76  
 CL = 69.03  
 TL = 69.03  
 G = 2° 40'

IA = 26° 30'  
 R = 523.78  
 CL = 244.02  
 TL = 122.01  
 G = 2° 40'

IA = 55° 07'  
 R = 301.61  
 CL = 329.82  
 TL = 164.91  
 G = 3° 49'





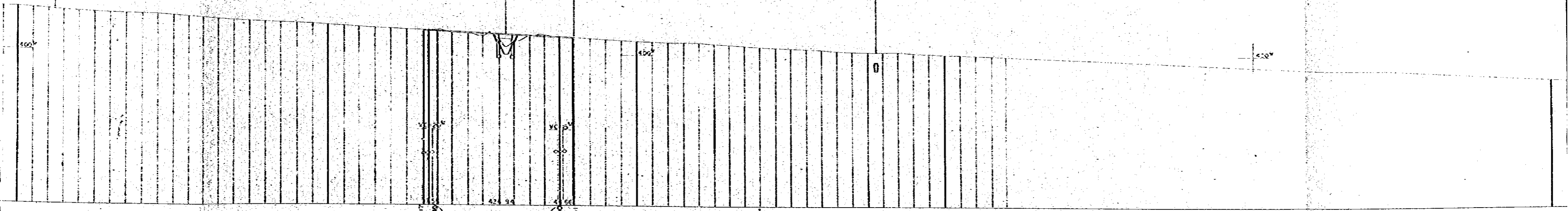


38°00'

DO 1 x 0.75  
3527 x 12715

B(Ga) 1240  
363 x 5720

Co 25°0'45" SKEWED 60 DEGREE TOWARD RIGHT  
364 x 7784



Station	Elevation	Notes
3628	427.90	
1	427.47	
2	426.90	
3	426.40	
4	425.93	
5	425.39	
6	424.91	
7	424.36	
8	424.20	
9	423.80	
10	423.30	
11	422.80	
12	422.31	
13	420.92	
14	420.31	
15	420.14	
16	419.82	
17	419.45	
18	418.83	
19	418.31	
20	417.89	
21	417.44	
22	417.02	
23	416.63	
24	416.39	
25	416.2	
26	415.0	
27	415.50	
28	415.00	
29	414.3	
30	413.1	
31	414.50	
32	411.1	
33	414.00	
34	413.50	
35	412.2	
36	412.9	
37	412.50	
38	411.0	
39	411.99	
40	411.39	
41	410.92	
42	410.40	
43	409.87	
44	409.33	
45	408.87	
46	408.50	
47	408.23	
48	407.99	
49	407.52	
50	407.04	
51	406.59	
52	406.17	
53	405.74	
54	405.38	
55	405.07	
56	404.58	
57	403.98	
58	403.44	
59	402.94	
60	402.38	
61	402.56	
62	402.22	
63	401.75	
64	401.20	
65	400.72	
66	400.17	
67	399.56	
68	399.36	
69	399.17	
70	398.56	
71	398.17	
72	397.17	
73	396.17	
74	395.00	

IA=63°04' R=458.60  
IC=281.23 CL=504.56  
G=3°48'

IA=22°50' R=301.61  
IC=282.50 CL=454.64  
G=3°48'

IA=42°00' R=301.61  
IC=282.50 CL=454.64  
G=3°48'

IA=53°40' R=301.61  
IC=282.50 CL=454.64  
G=3°48'

IA=88°16' R=301.61  
IC=282.50 CL=454.64  
G=3°48'

IA=51°44' R=327.45  
IC=285.65 CL=454.64  
G=3°48'

IA=23°28' R=301.61  
IC=282.50 CL=454.64  
G=3°48'

420'

CL 5°0' 50"  
3678.273M

400'

400'

400' 300'

392.17  
366

IA = 23° 28'  
R = 301.61  
CL = 5490.4  
TL = 620.41  
G = 3° 45'

385.00  
367

IA = 67° 34'  
R = 301.61  
CL = 366.20  
G = 3° 45'

384.34

383.79

382.87

382.17

381.87

381.94

382.10

381.78

381.33

380.89

380.45

379.94

379.33

378.73

378.21

377.70

377.36

376.90

376.51

376.03

367.28

IA = 23° 28'  
R = 301.61  
CL = 5490.4  
TL = 620.41  
G = 3° 45'

IA = 69° 49'  
R = 301.61  
CL = 367.43  
G = 3° 45'

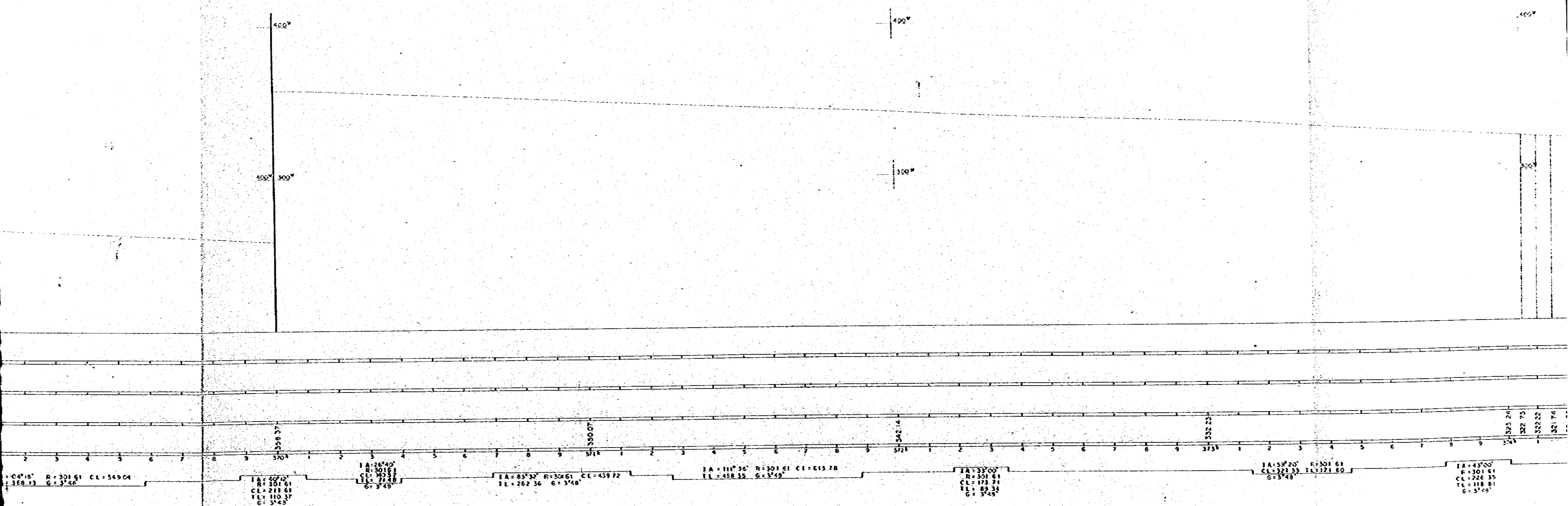
IA = 36° 35'  
R = 301.61  
CL = 192.88  
TL = 89.70  
G = 3° 45'

IA = 44° 18' R = 301.61 CL = 5490.4  
TL = 368.13 G = 3° 45'

IA = 67° 34'  
R = 301.61  
CL = 211.61  
TL = 110.37  
G = 3° 45'

IA = 26° 40'  
R = 301.61  
CL = 714.8  
G = 3° 45'

392.37  
370



IA = 04° 18' R = 301.61 CL = 549.04  
 TL = 388.73 G = 3° 48'

IA = 40° 12' R = 301.61  
 CL = 218.61  
 TL = 110.37  
 G = 3° 48'

IA = 26° 40' R = 301.61  
 CL = 193.11  
 TL = 74.88  
 G = 3° 48'

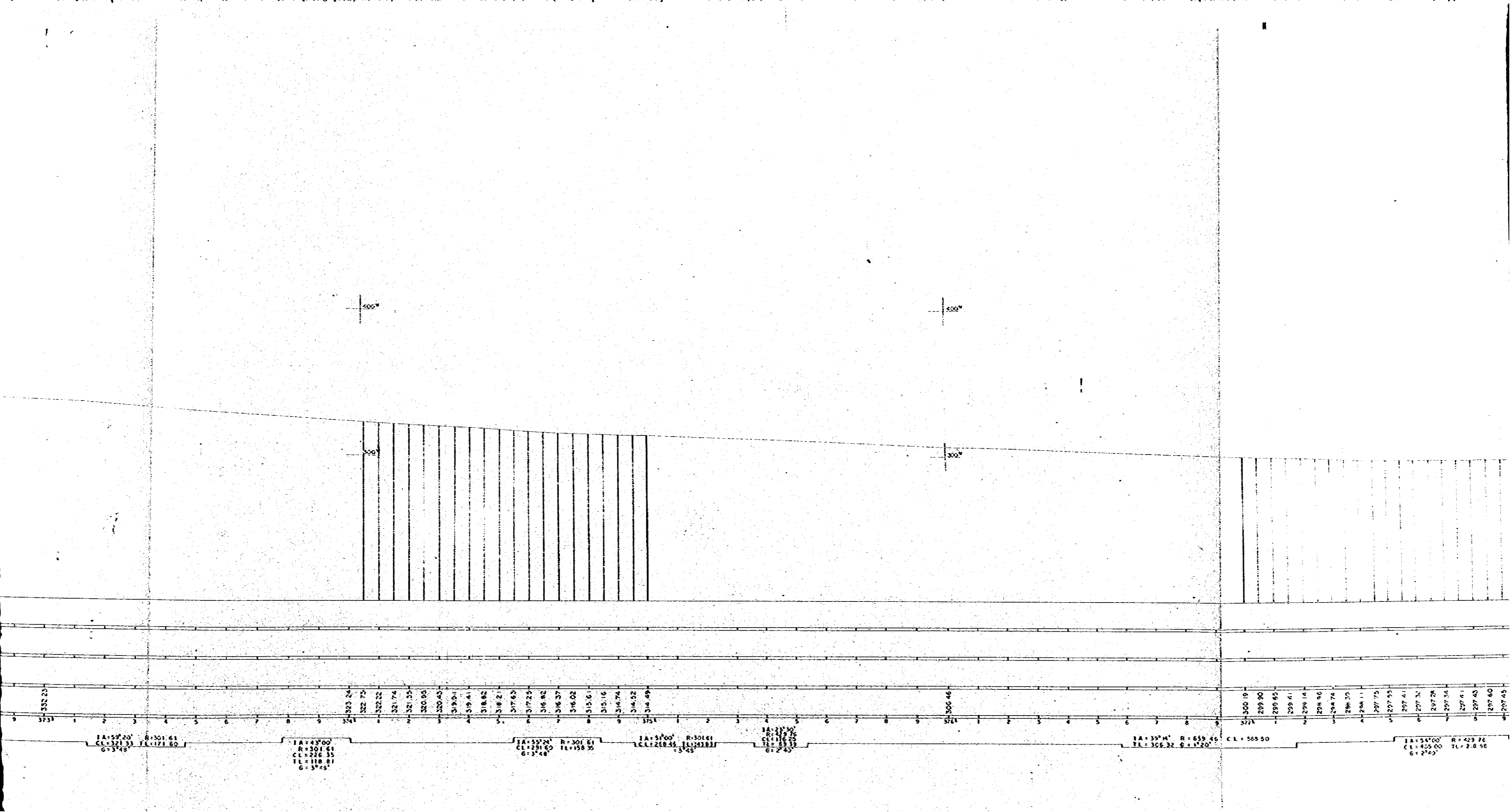
IA = 85° 32' R = 301.61 CL = 439.72  
 TL = 262.36 G = 3° 48'

IA = 111° 36' R = 301.61 CL = 613.78  
 TL = 458.35 G = 3° 48'

IA = 33° 00' R = 301.61  
 CL = 173.71  
 TL = 89.34  
 G = 3° 48'

IA = 59° 20' R = 301.61  
 CL = 321.33 TL = 171.60  
 G = 3° 48'

IA = 43° 00' R = 301.61  
 CL = 226.35  
 TL = 118.81  
 G = 3° 48'



500'

500'

500'

500'

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IA=59°20' R=301.61  
CL=321.33 TL=171.60  
G=3°48'

IA=43°00' R=301.61  
CL=226.35 TL=118.81  
G=3°45'

IA=59°20' R=301.61  
CL=291.60 TL=158.35  
G=3°48'

IA=51°00' R=301.61  
CL=258.45 TL=143.83  
G=3°45'

IA=23°50' R=429.26  
CL=116.25 TL=63.33  
G=2°45'

IA=39°40' R=659.46  
CL=569.50 TL=306.32  
G=1°20'

IA=54°00' R=423.76  
CL=455.00 TL=248.56  
G=2°45'

IA = 33°45' R = 859.46  
TL = 306.32 G = 1°20'

CL = 563.50

IA = 54°00' R = 429.76  
CL = 405.00 TL = 218.93  
G = 2°40'

IA = 45°24' R = 659.46 CL = 725.00 TL = 355.26 G = 1°20'

IA = 33°45' R = 859.46 CL = 505.00  
TL = 260.03 G = 1°20'

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300'

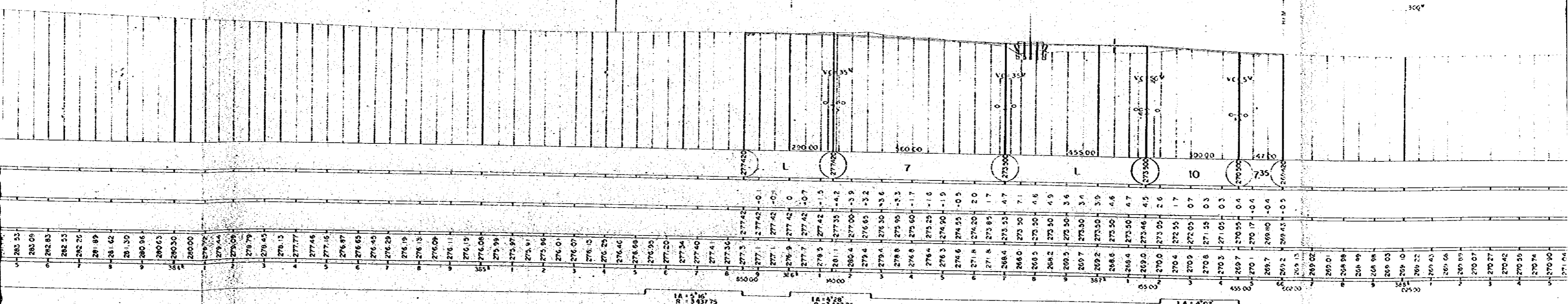
300'

300'

330"

350"

290.13	290.17	290.21	290.25	290.29	290.33	290.37	290.41	290.45	290.49	290.53	290.57	290.61	290.65	290.69	290.73	290.77	290.81	290.85	290.89	290.93	290.97	291.01	291.05	291.09	291.13	291.17	291.21	291.25	291.29	291.33	291.37	291.41	291.45	291.49	291.53	291.57	291.61	291.65	291.69	291.73	291.77	291.81	291.85	291.89	291.93	291.97	292.01	292.05	292.09	292.13	292.17	292.21	292.25	292.29	292.33	292.37	292.41	292.45	292.49	292.53	292.57	292.61	292.65	292.69	292.73	292.77	292.81	292.85	292.89	292.93	292.97	293.01	293.05	293.09	293.13	293.17	293.21	293.25	293.29	293.33	293.37	293.41	293.45	293.49	293.53	293.57	293.61	293.65	293.69	293.73	293.77	293.81	293.85	293.89	293.93	293.97	294.01	294.05	294.09	294.13	294.17	294.21	294.25	294.29	294.33	294.37	294.41	294.45	294.49	294.53	294.57	294.61	294.65	294.69	294.73	294.77	294.81	294.85	294.89	294.93	294.97	295.01	295.05	295.09	295.13	295.17	295.21	295.25	295.29	295.33	295.37	295.41	295.45	295.49	295.53	295.57	295.61	295.65	295.69	295.73	295.77	295.81	295.85	295.89	295.93	295.97	296.01	296.05	296.09	296.13	296.17	296.21	296.25	296.29	296.33	296.37	296.41	296.45	296.49	296.53	296.57	296.61	296.65	296.69	296.73	296.77	296.81	296.85	296.89	296.93	296.97	297.01	297.05	297.09	297.13	297.17	297.21	297.25	297.29	297.33	297.37	297.41	297.45	297.49	297.53	297.57	297.61	297.65	297.69	297.73	297.77	297.81	297.85	297.89	297.93	297.97	298.01	298.05	298.09	298.13	298.17	298.21	298.25	298.29	298.33	298.37	298.41	298.45	298.49	298.53	298.57	298.61	298.65	298.69	298.73	298.77	298.81	298.85	298.89	298.93	298.97	299.01	299.05	299.09	299.13	299.17	299.21	299.25	299.29	299.33	299.37	299.41	299.45	299.49	299.53	299.57	299.61	299.65	299.69	299.73	299.77	299.81	299.85	299.89	299.93	299.97	300.01	300.05	300.09	300.13	300.17	300.21	300.25	300.29	300.33	300.37	300.41	300.45	300.49	300.53	300.57	300.61	300.65	300.69	300.73	300.77	300.81	300.85	300.89	300.93	300.97	301.01	301.05	301.09	301.13	301.17	301.21	301.25	301.29	301.33	301.37	301.41	301.45	301.49	301.53	301.57	301.61	301.65	301.69	301.73	301.77	301.81	301.85	301.89	301.93	301.97	302.01	302.05	302.09	302.13	302.17	302.21	302.25	302.29	302.33	302.37	302.41	302.45	302.49	302.53	302.57	302.61	302.65	302.69	302.73	302.77	302.81	302.85	302.89	302.93	302.97	303.01	303.05	303.09	303.13	303.17	303.21	303.25	303.29	303.33	303.37	303.41	303.45	303.49	303.53	303.57	303.61	303.65	303.69	303.73	303.77	303.81	303.85	303.89	303.93	303.97	304.01	304.05	304.09	304.13	304.17	304.21	304.25	304.29	304.33	304.37	304.41	304.45	304.49	304.53	304.57	304.61	304.65	304.69	304.73	304.77	304.81	304.85	304.89	304.93	304.97	305.01	305.05	305.09	305.13	305.17	305.21	305.25	305.29	305.33	305.37	305.41	305.45	305.49	305.53	305.57	305.61	305.65	305.69	305.73	305.77	305.81	305.85	305.89	305.93	305.97	306.01	306.05	306.09	306.13	306.17	306.21	306.25	306.29	306.33	306.37	306.41	306.45	306.49	306.53	306.57	306.61	306.65	306.69	306.73	306.77	306.81	306.85	306.89	306.93	306.97	307.01	307.05	307.09	307.13	307.17	307.21	307.25	307.29	307.33	307.37	307.41	307.45	307.49	307.53	307.57	307.61	307.65	307.69	307.73	307.77	307.81	307.85	307.89	307.93	307.97	308.01	308.05	308.09	308.13	308.17	308.21	308.25	308.29	308.33	308.37	308.41	308.45	308.49	308.53	308.57	308.61	308.65	308.69	308.73	308.77	308.81	308.85	308.89	308.93	308.97	309.01	309.05	309.09	309.13	309.17	309.21	309.25	309.29	309.33	309.37	309.41	309.45	309.49	309.53	309.57	309.61	309.65	309.69	309.73	309.77	309.81	309.85	309.89	309.93	309.97	310.01	310.05	310.09	310.13	310.17	310.21	310.25	310.29	310.33	310.37	310.41	310.45	310.49	310.53	310.57	310.61	310.65	310.69	310.73	310.77	310.81	310.85	310.89	310.93	310.97	311.01	311.05	311.09	311.13	311.17	311.21	311.25	311.29	311.33	311.37	311.41	311.45	311.49	311.53	311.57	311.61	311.65	311.69	311.73	311.77	311.81	311.85	311.89	311.93	311.97	312.01	312.05	312.09	312.13	312.17	312.21	312.25	312.29	312.33	312.37	312.41	312.45	312.49	312.53	312.57	312.61	312.65	312.69	312.73	312.77	312.81	312.85	312.89	312.93	312.97	313.01	313.05	313.09	313.13	313.17	313.21	313.25	313.29	313.33	313.37	313.41	313.45	313.49	313.53	313.57	313.61	313.65	313.69	313.73	313.77	313.81	313.85	313.89	313.93	313.97	314.01	314.05	314.09	314.13	314.17	314.21	314.25	314.29	314.33	314.37	314.41	314.45	314.49	314.53	314.57	314.61	314.65	314.69	314.73	314.77	314.81	314.85	314.89	314.93	314.97	315.01	315.05	315.09	315.13	315.17	315.21	315.25	315.29	315.33	315.37	315.41	315.45	315.49	315.53	315.57	315.61	315.65	315.69	315.73	315.77	315.81	315.85	315.89	315.93	315.97	316.01	316.05	316.09	316.13	316.17	316.21	316.25	316.29	316.33	316.37	316.41	316.45	316.49	316.53	316.57	316.61	316.65	316.69	316.73	316.77	316.81	316.85	316.89	316.93	316.97	317.01	317.05	317.09	317.13	317.17	317.21	317.25	317.29	317.33	317.37	317.41	317.45	317.49	317.53	317.57	317.61	317.65	317.69	317.73	317.77	317.81	317.85	317.89	317.93	317.97	318.01	318.05	318.09	318.13	318.17	318.21	318.25	318.29	318.33	318.37	318.41	318.45	318.49	318.53	318.57	318.61	318.65	31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LIMONCITO ST  
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IA = 4.02  
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IA = 4.02  
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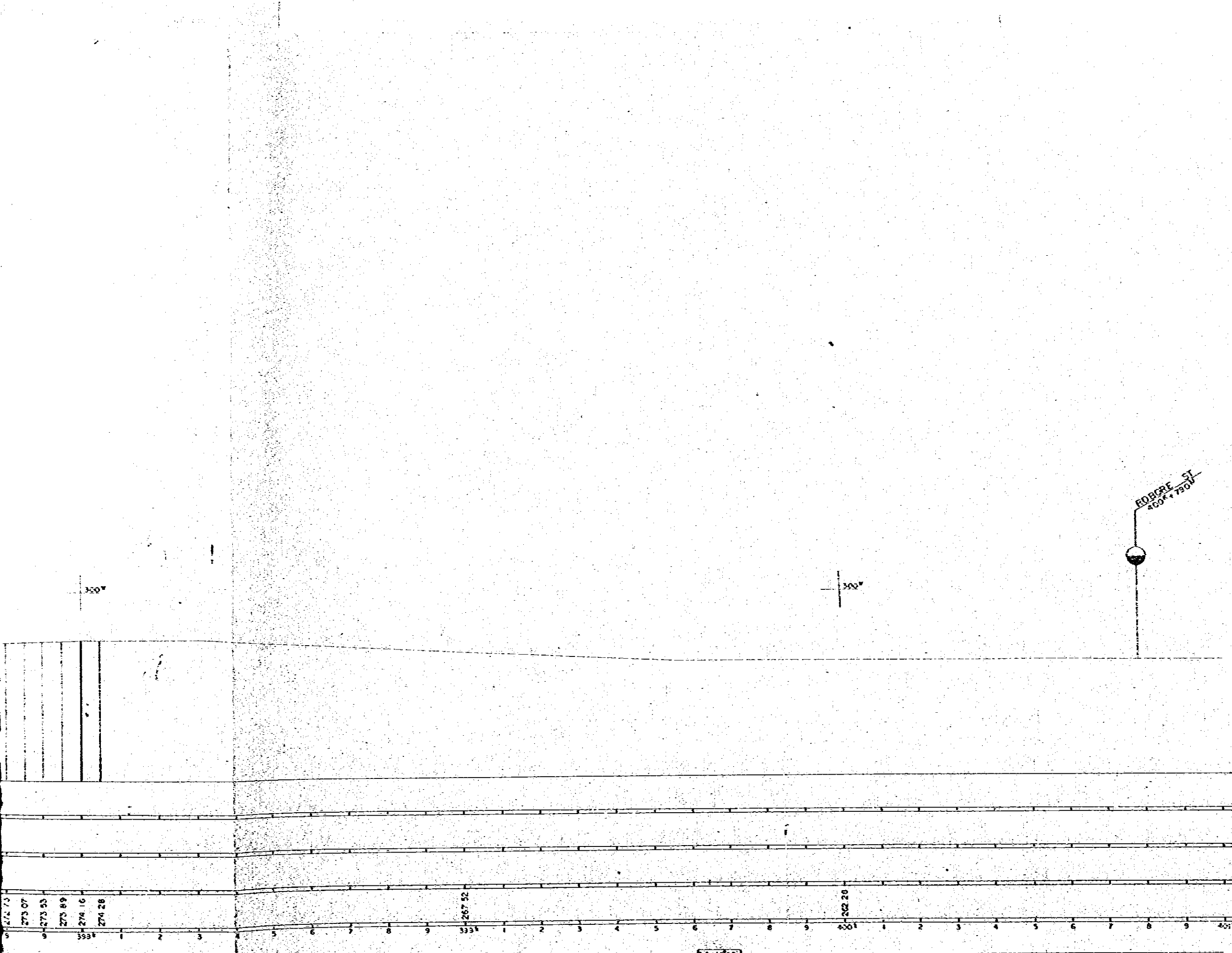
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3354 272.77 272.26 271.71 271.20 270.70 270.19 269.60 269.02 268.50 268.00 267.51 267.01 266.61 266.05 265.49 264.92 264.47 264.01 263.61 263.35 263.22 263.22 263.19 263.20 263.22 263.18 263.17 263.15 263.18 263.16 263.17 263.25 263.21 263.13 263.18 263.28 263.42 263.72 264.07 264.42 264.88 265.45 265.91 266.37 266.85 267.35 267.91 268.52 269.01 269.54 269.94 270.51 270.94 271.31 271.76 272.24 272.75 273.07 273.55 273.89 274.16 274.28 3353

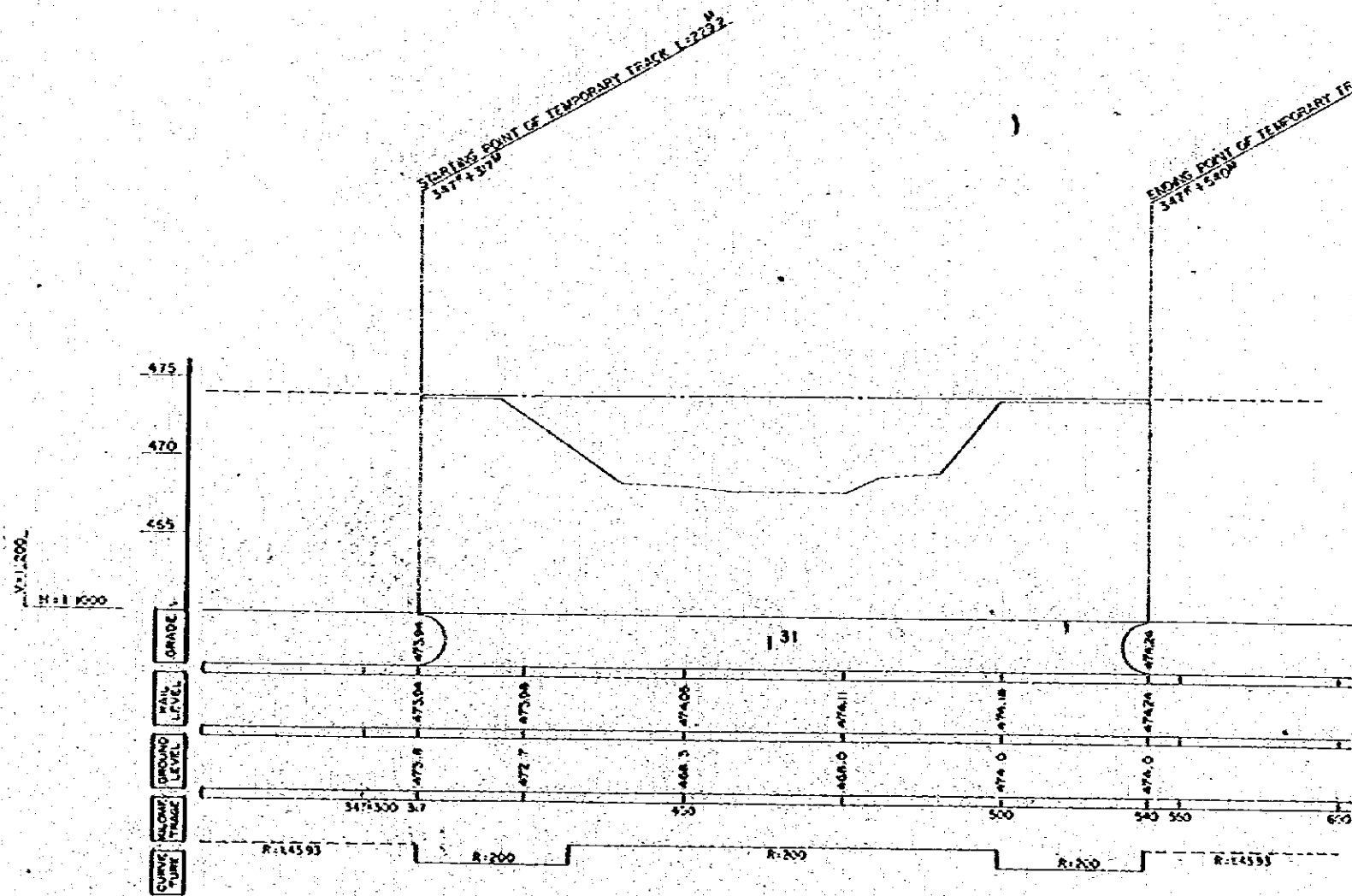
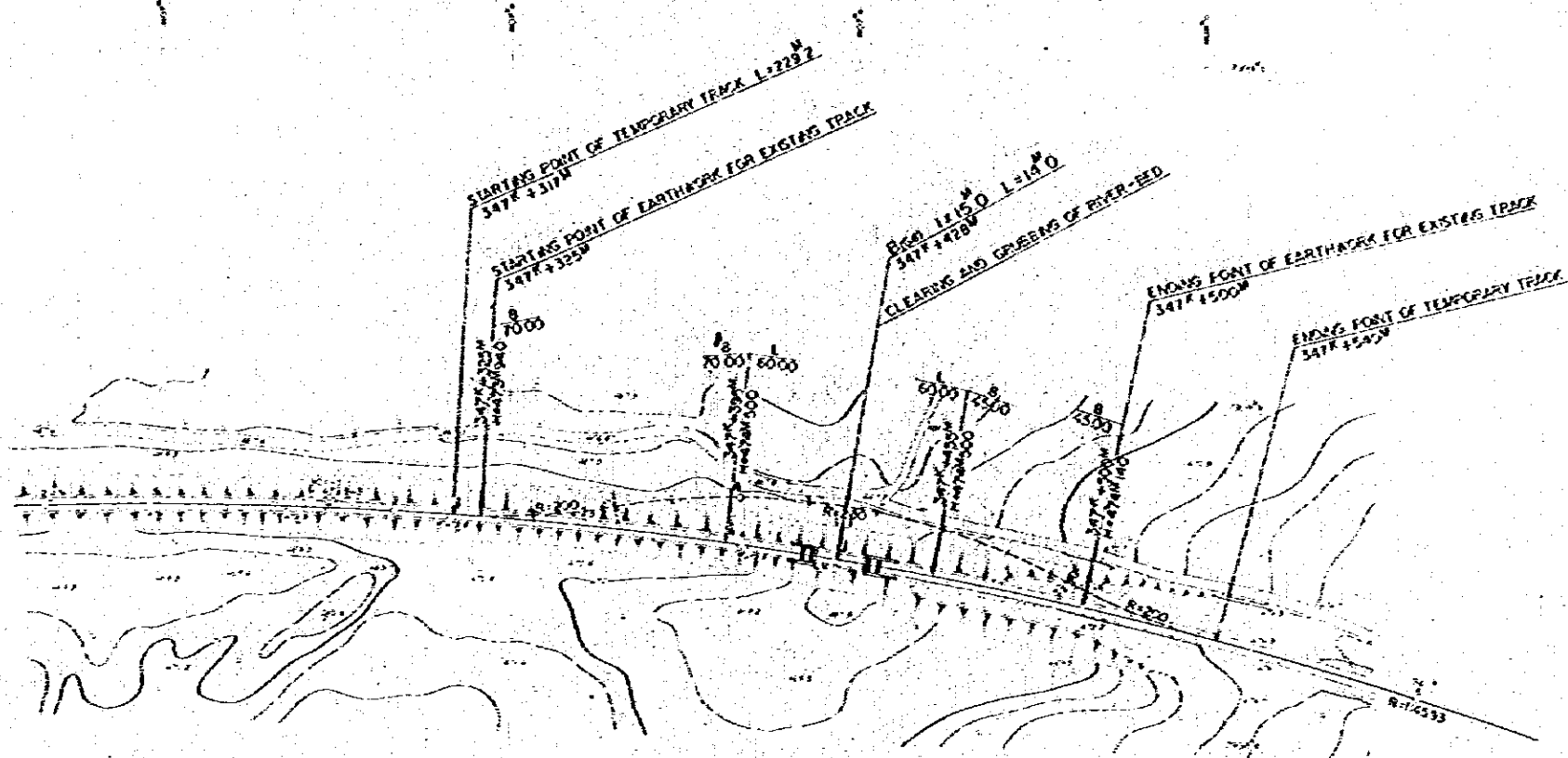
EA=30.56' R=572.93  
CL=309.32 EA=158.55  
G+2.00

300'

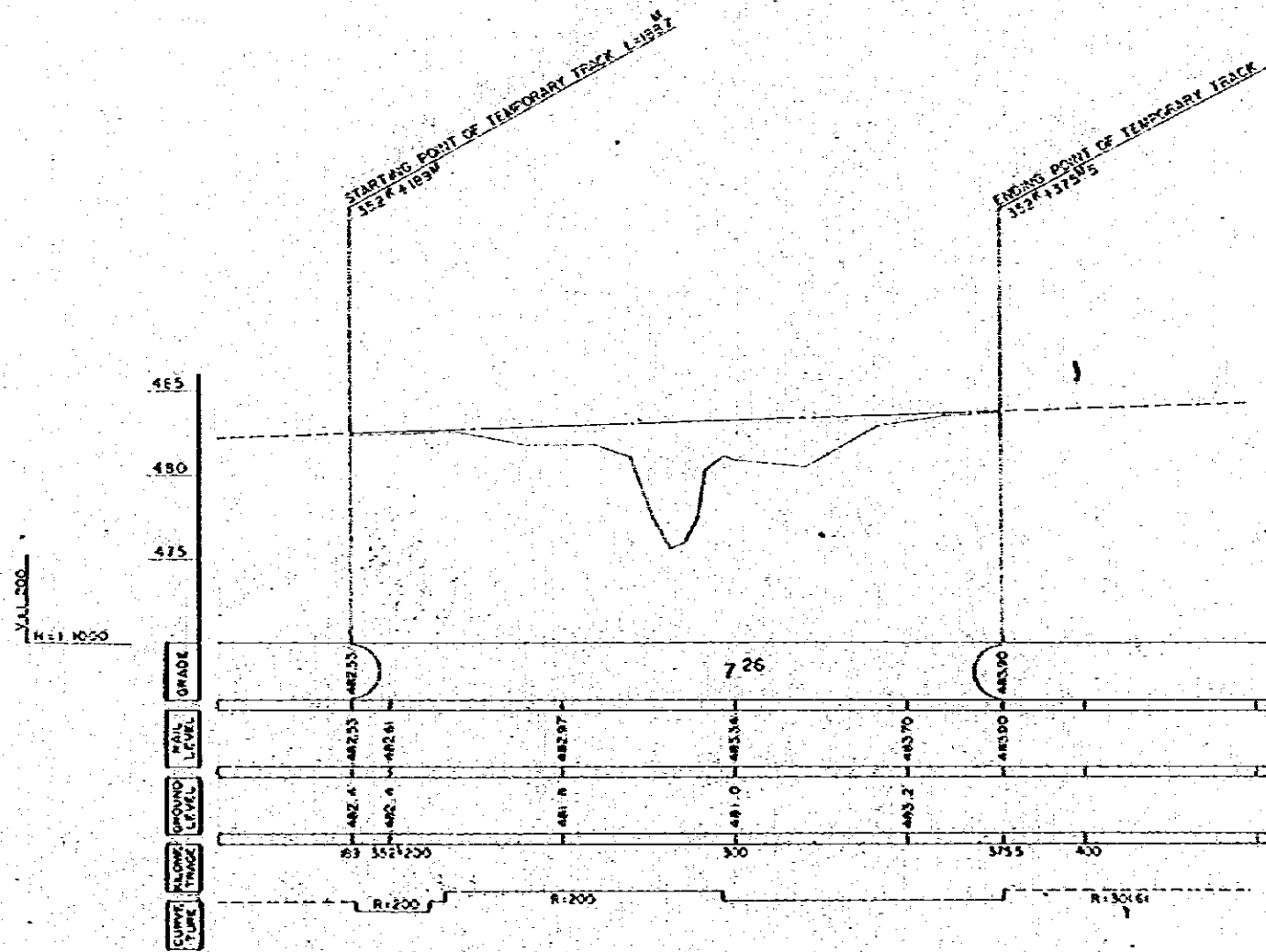
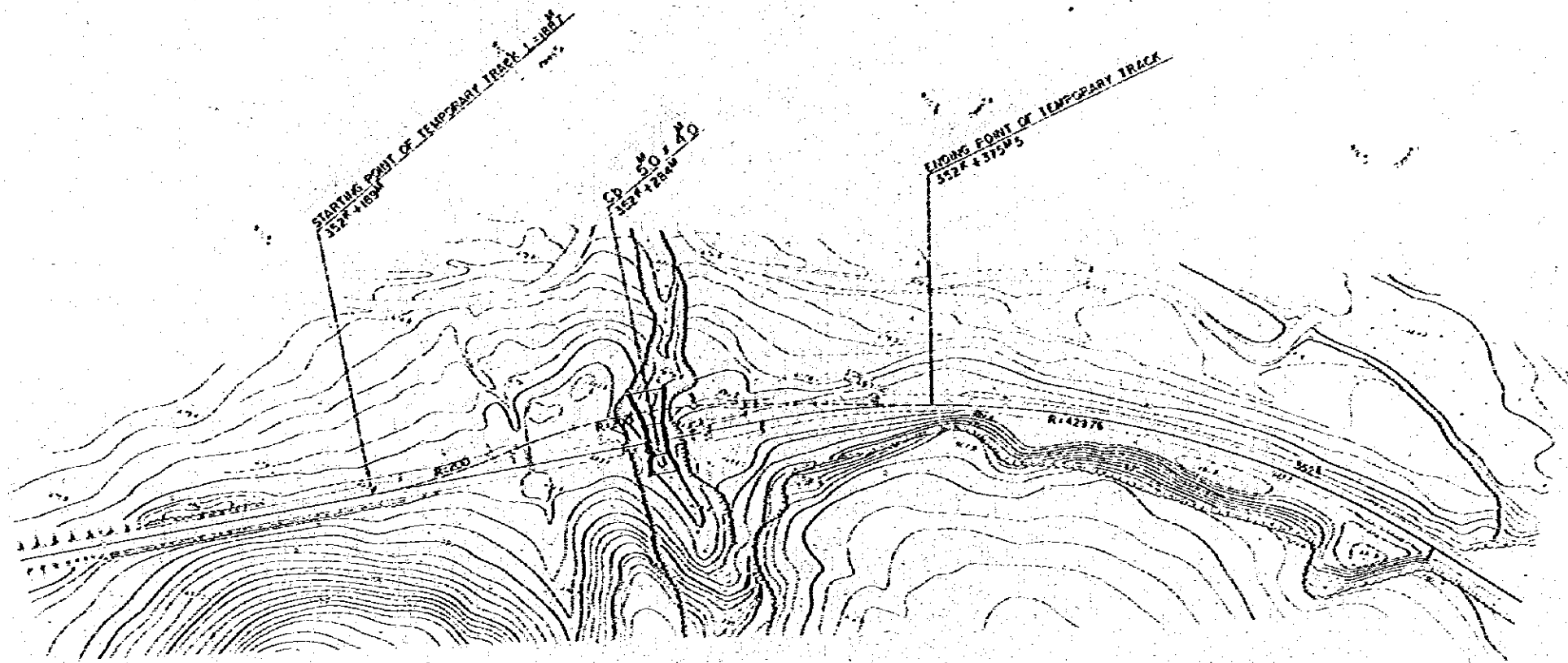
300'



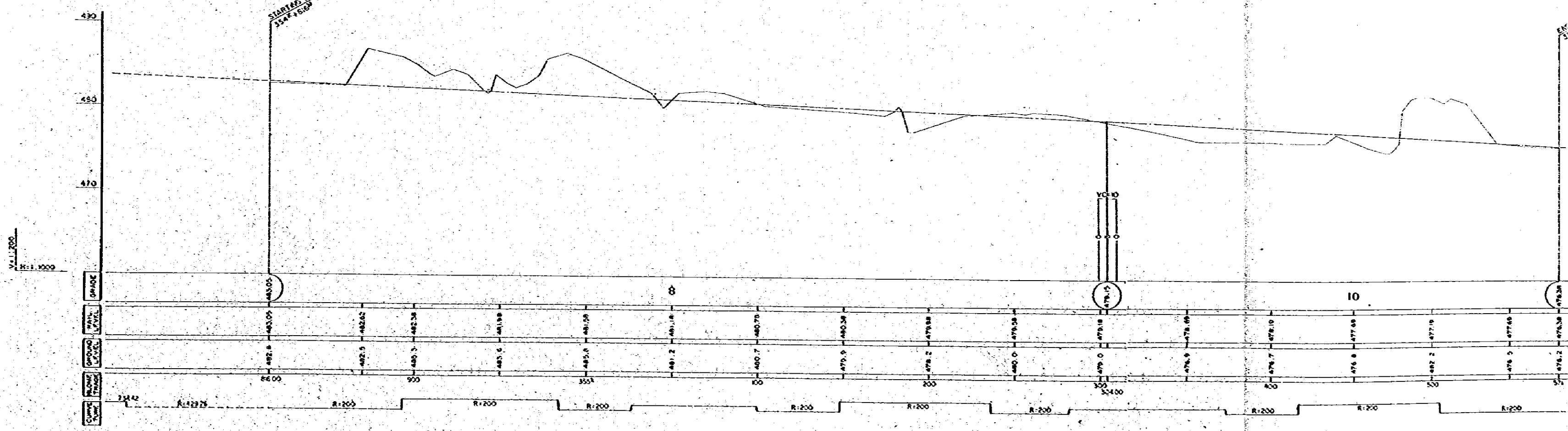
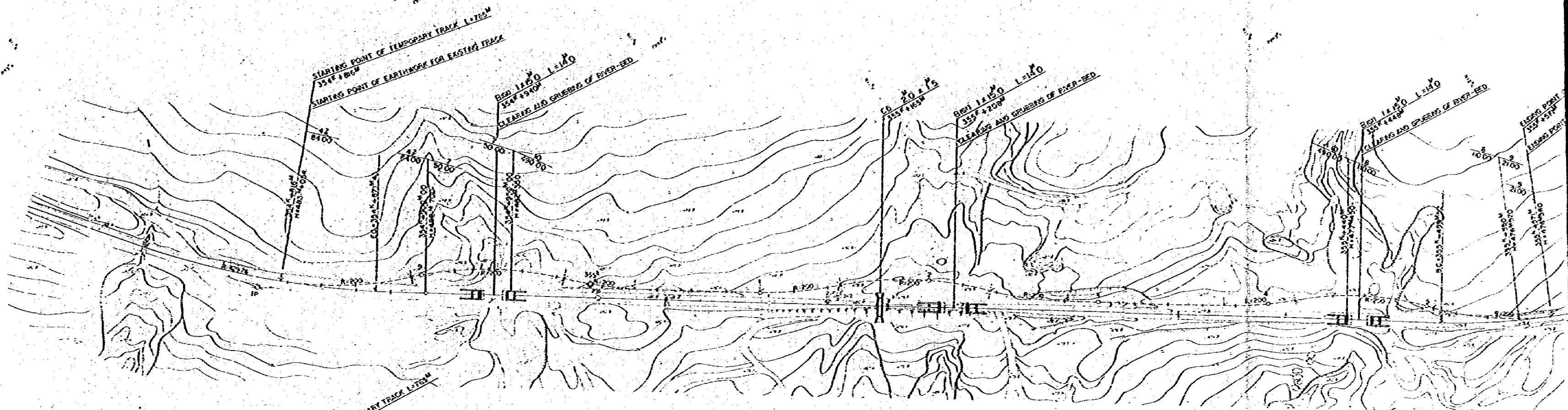
EMPRESA NACIONAL DE FERROCARRILES RAILWAY RENOVATION PROJECT (IPUS B/OORE)		
<b>PROFÍLE</b>		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No 15

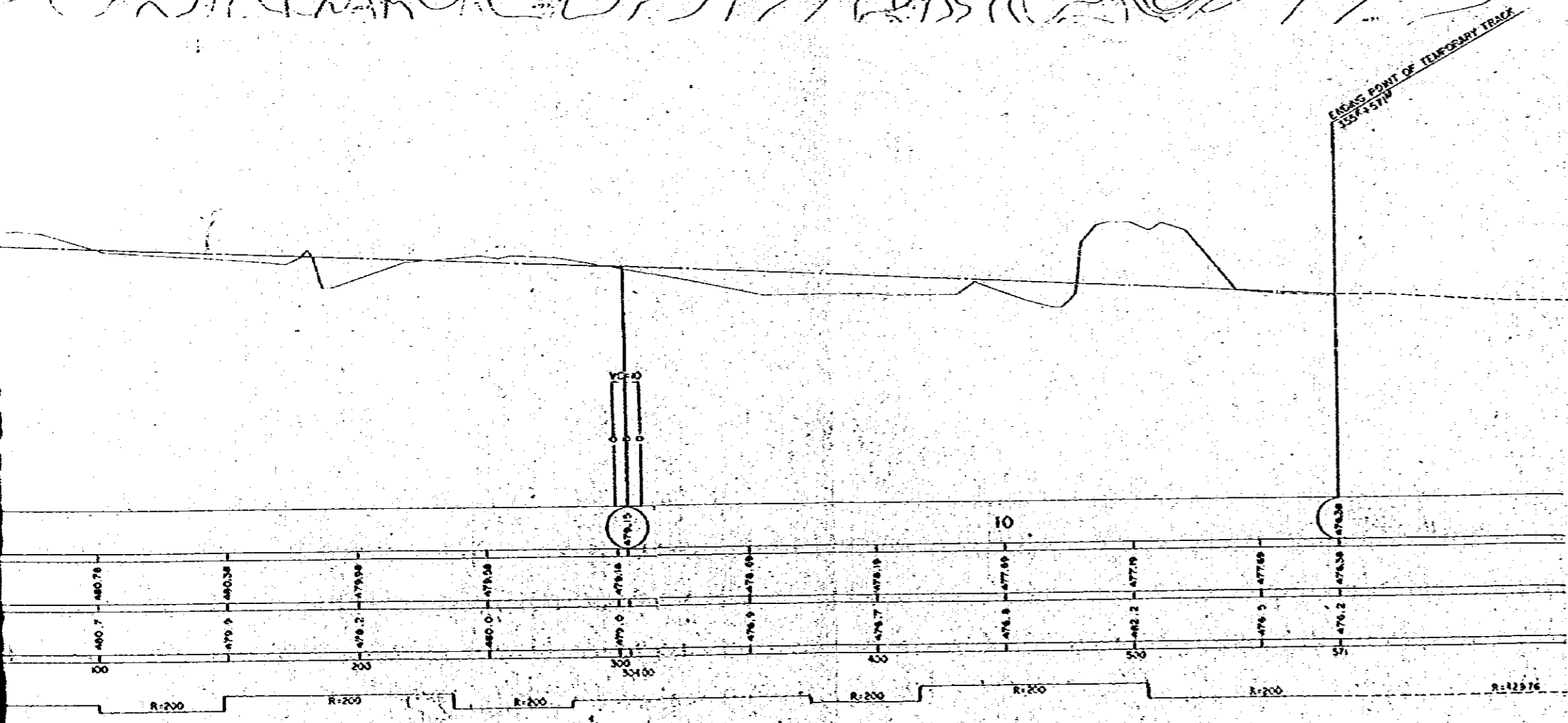
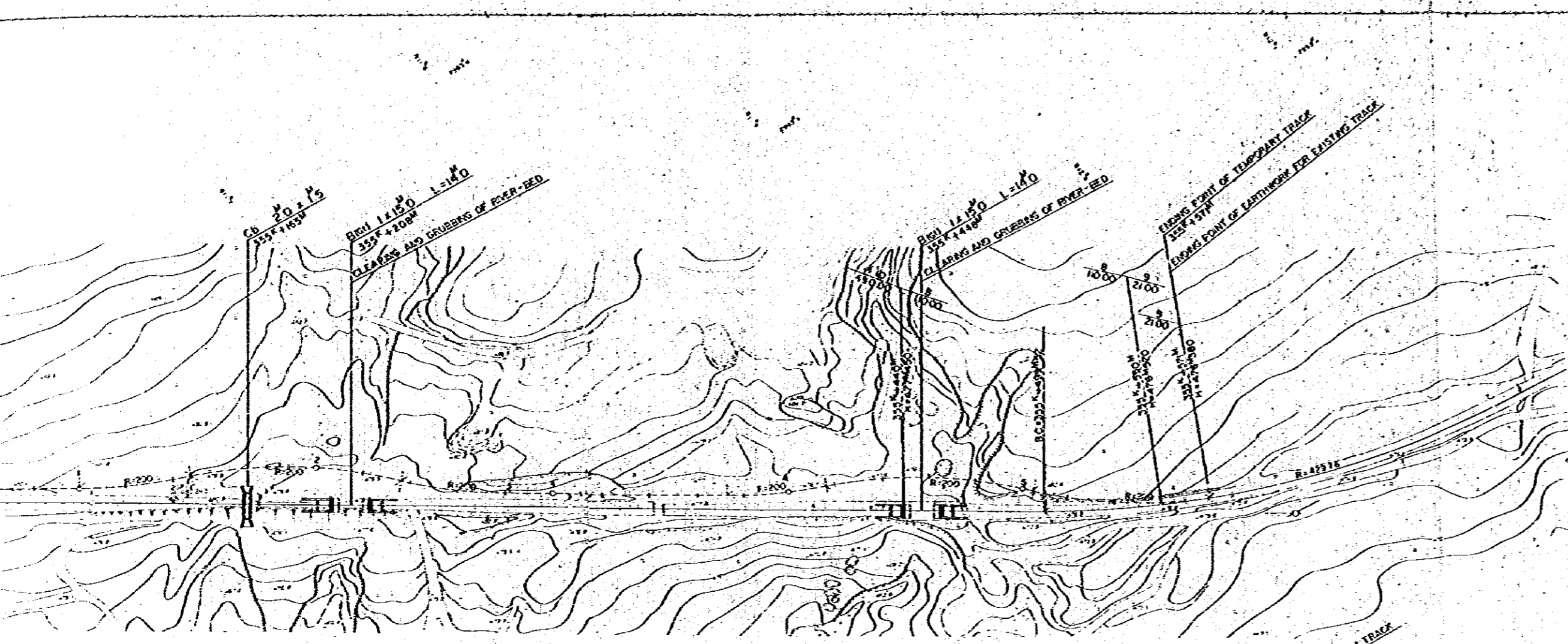


EMPRESA NACIONAL DE FERROCARRILES RAILWAY REHABILITATION PROJECT (1974-80)		
TEMPORARY TRACK PROFILE AND PLAN 347K+317M ~ 347K+540M		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Drawn by Date	No. 16

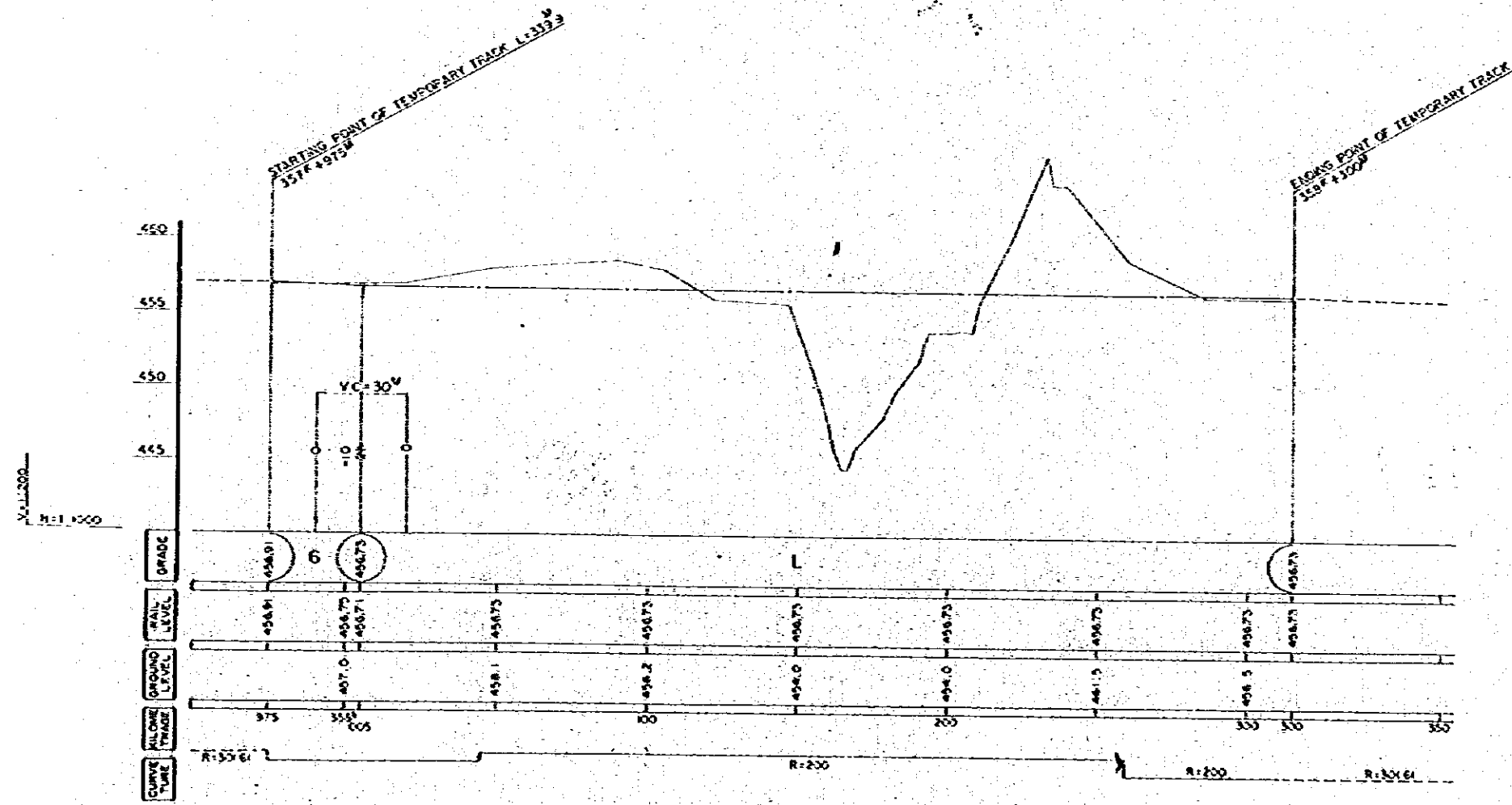
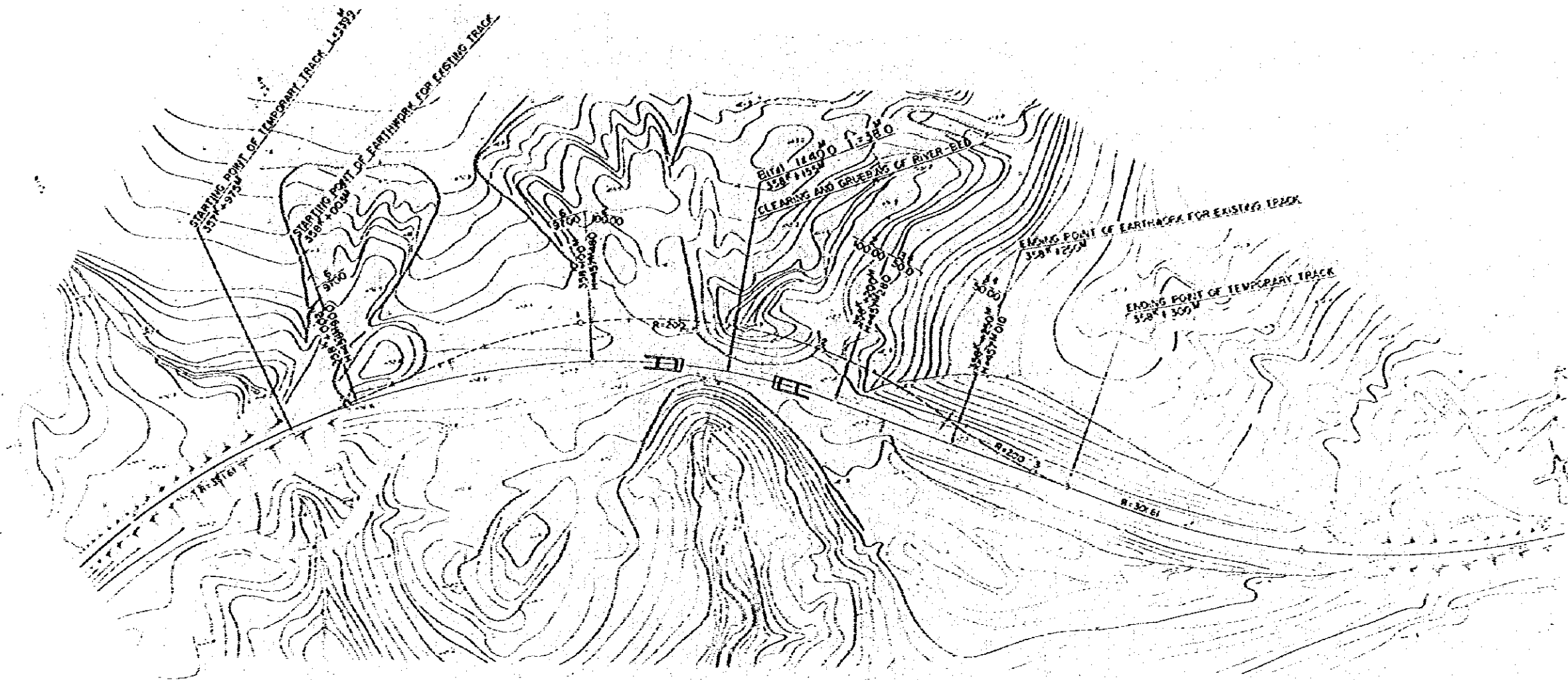


EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (RUS-B-042)		
TEMPORARY TRACK PROFILE AND PLAN		
352K+189M ~ 352K+375M5		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Drawn by Date	Checked by Date	17



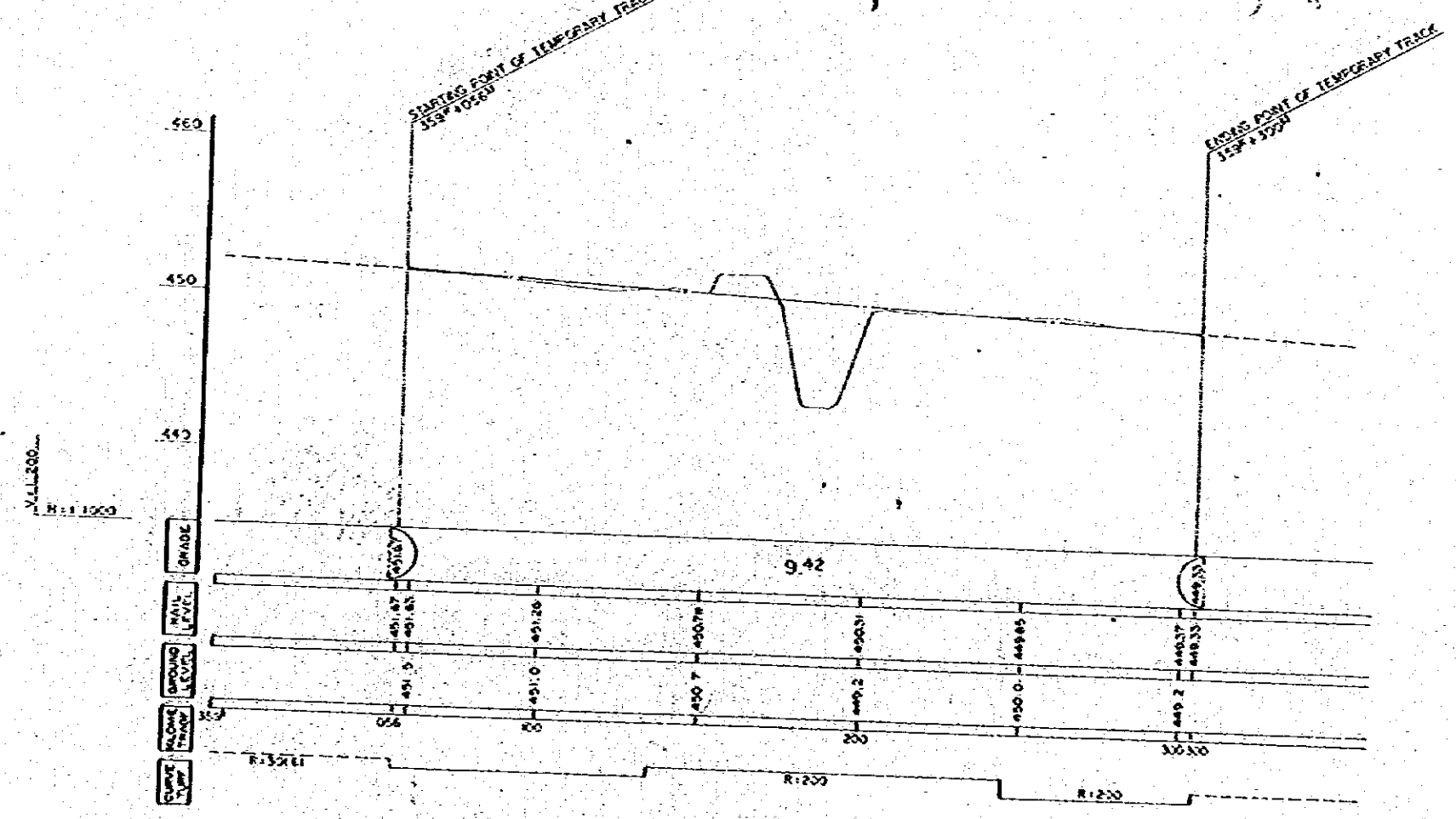
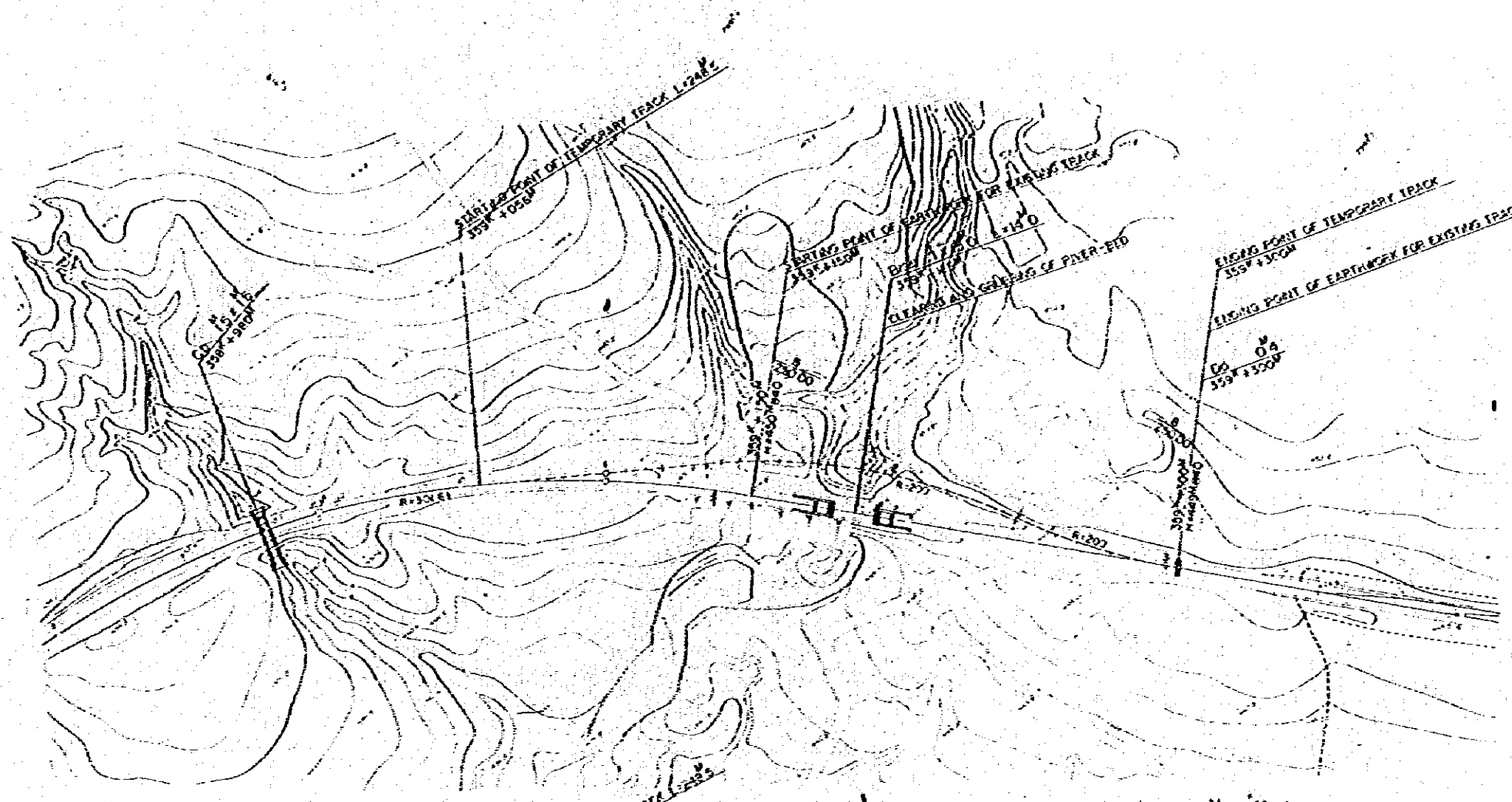


EMPRESA NACIONAL DE FERROCARRILES  
 RAILWAY RENOVATION PROJECT (IPRAS-BOGOTA)  
 TEMPORARY TRACK PROFILE AND PLAN  
 354<sup>K</sup>+816<sup>M</sup> ~ 355<sup>K</sup>+571<sup>M</sup>  
 Executing Enterprise  
 Drawn by Date | Checked by Date | Approved by Date  
 Contracting Enterprise  
 Checked by Date | Approved by Date | 18

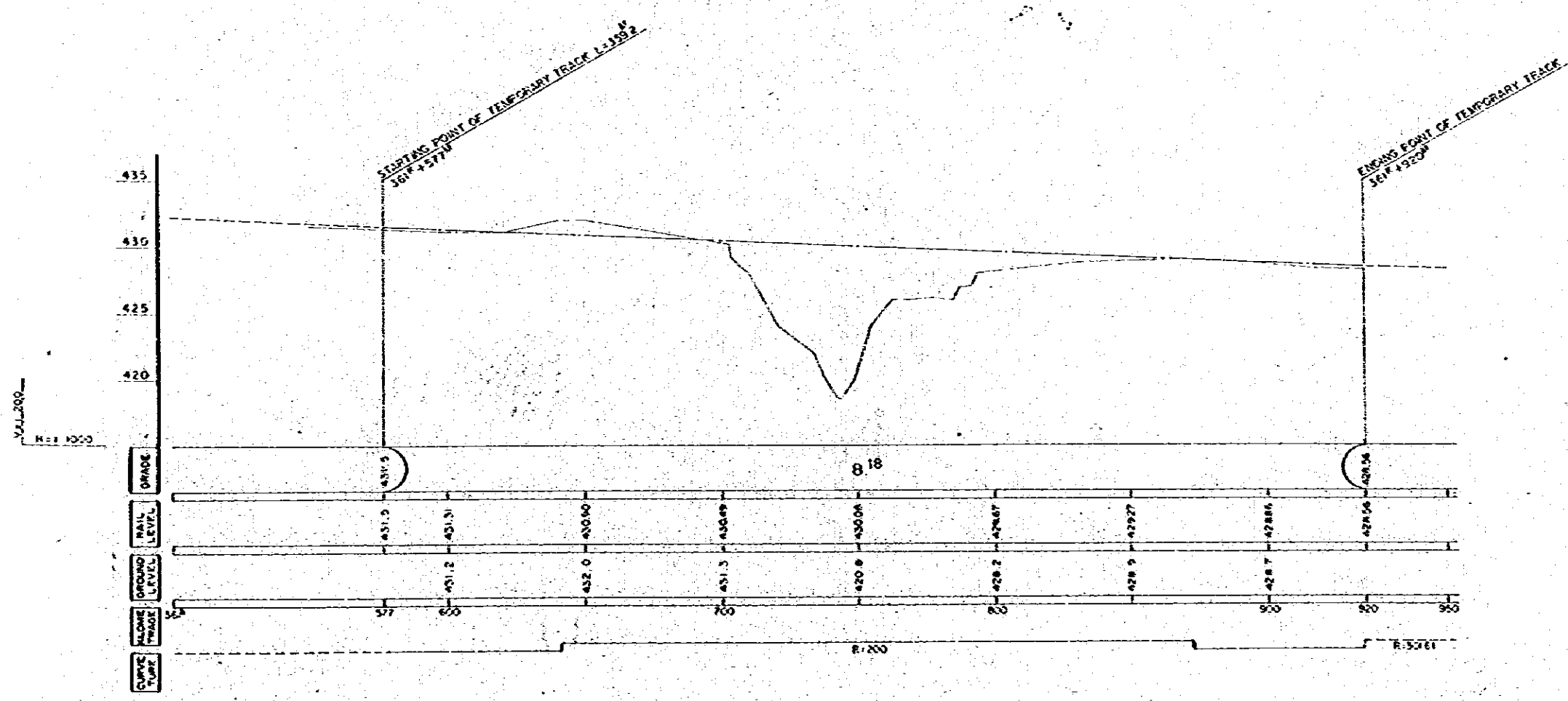
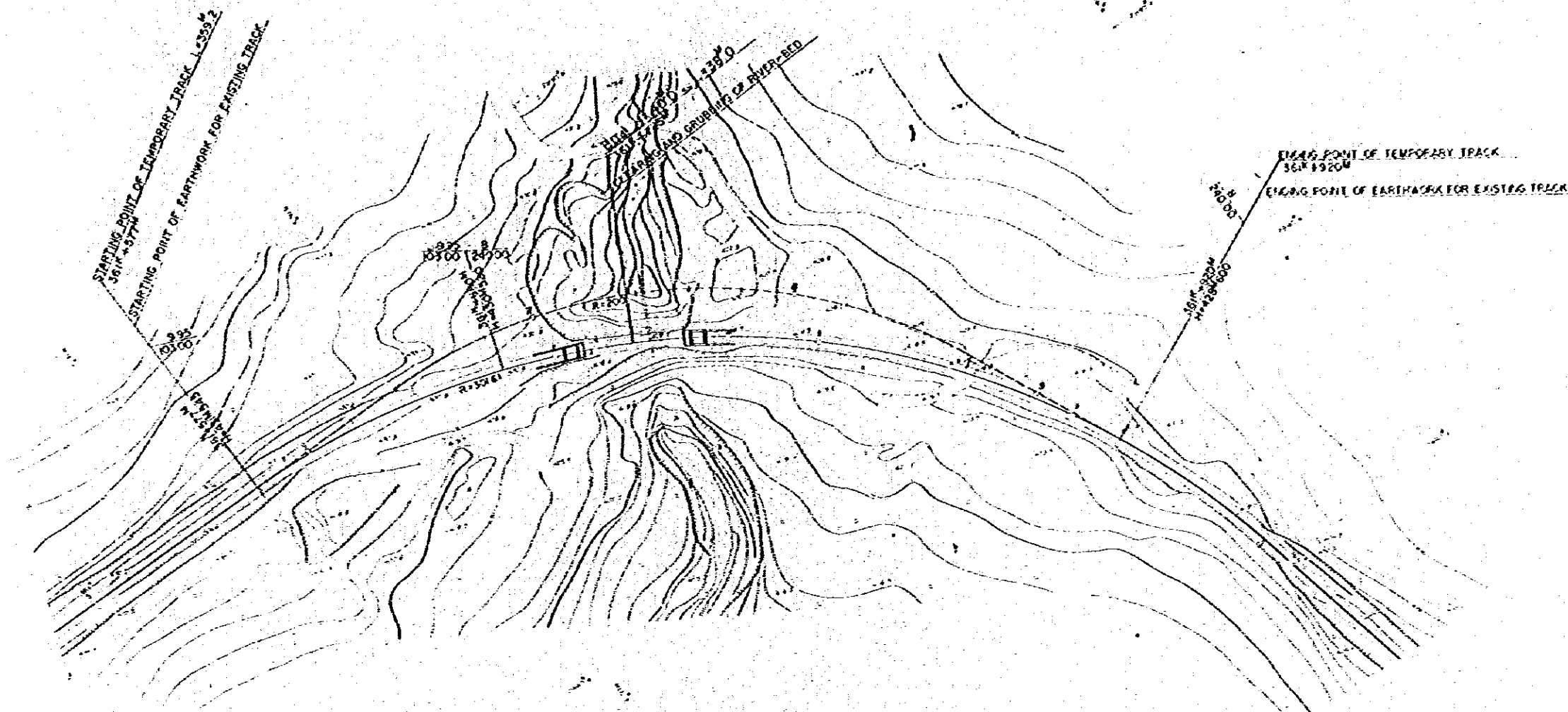


EMPRESA NACIONAL DE FERROCARRILES RAILWAY REHABILITATION PROJECT (LIPAS ROAD)		
TEMPORARY TRACK PROFILE AND PLAN 357K+975M ~ 358K+300M		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Date	No. 19

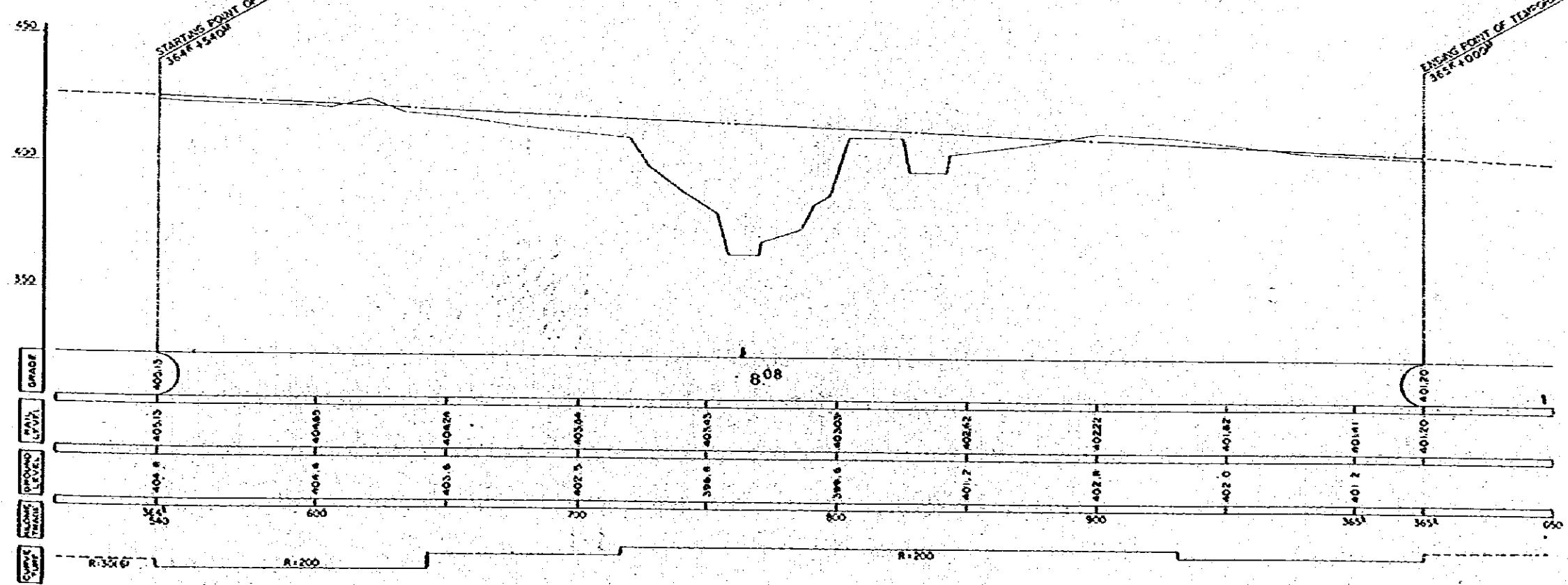
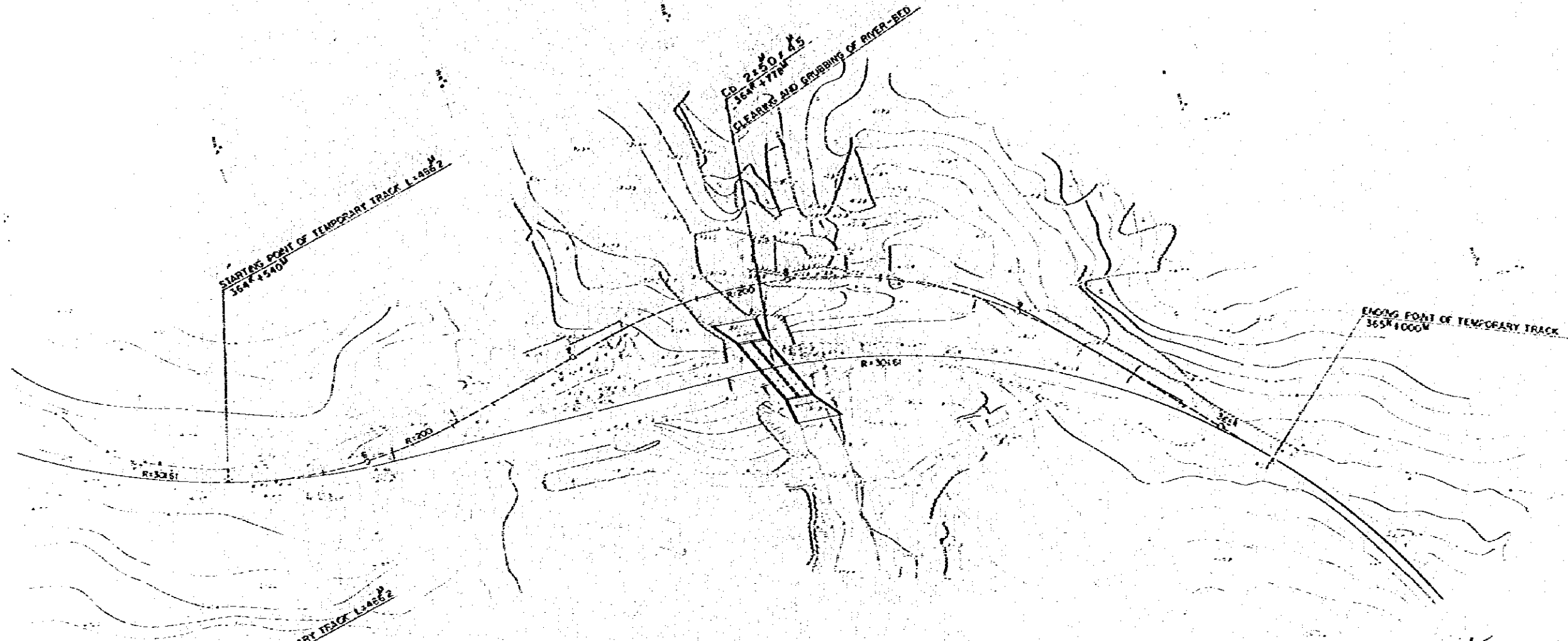




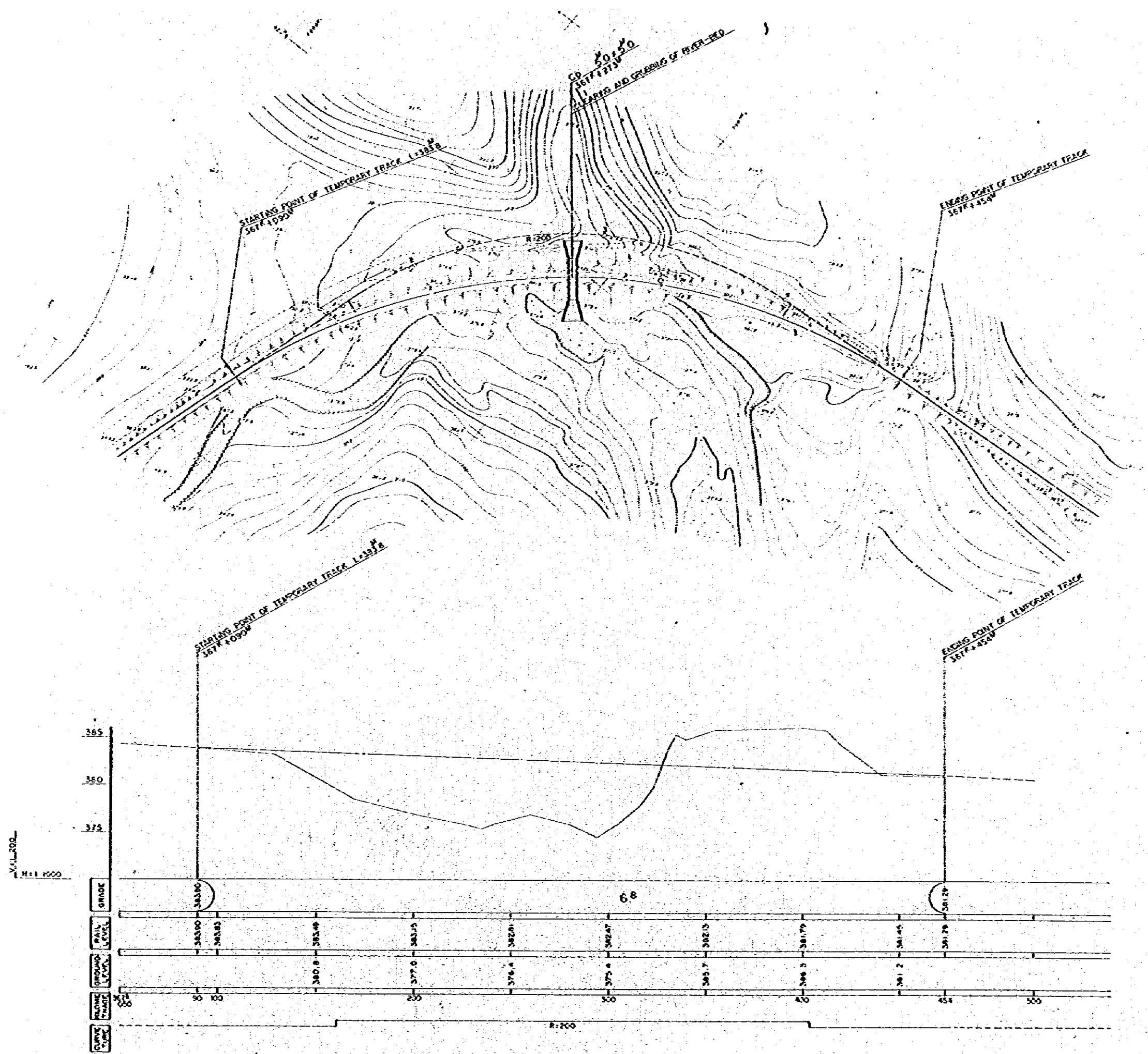
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (UPAS 80002)		
TEMPORARY TRACK PROFILE AND PLAN		
359K+056M ~ 359K+300M		
Executing Enterprise		
Drawn by D...	Checked by D...	Approved by D...
Contracting Enterprise		
Checked by D...	Approved by D...	No 20



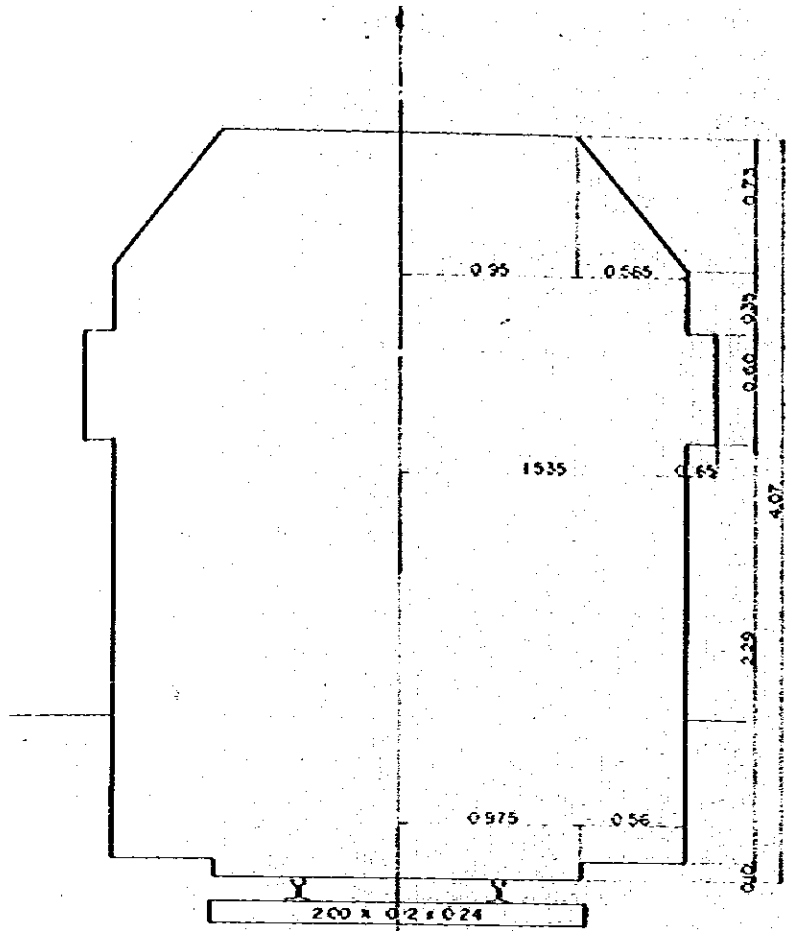
ENPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (IMPAS RECORD)		
TEMPORARY TRACK PROFILE AND PLAN		
361K+577M ~ 361K+920M		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No. 21



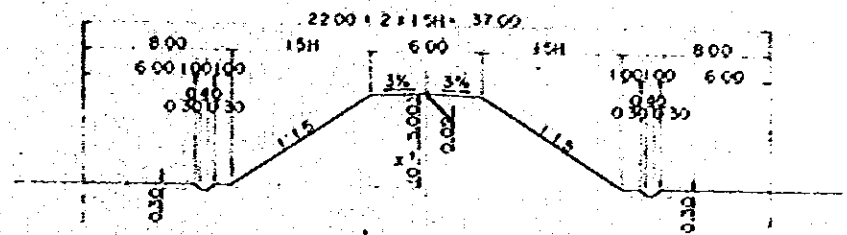
EMPRESA NACIONAL DE FERROCARRILES RAILWAY REHABILITATION PROJECT (URUS-ROCORD)		
TEMPORARY TRACK PROFILE AND PLAN 364K+540M ~ 365K+000M		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	22



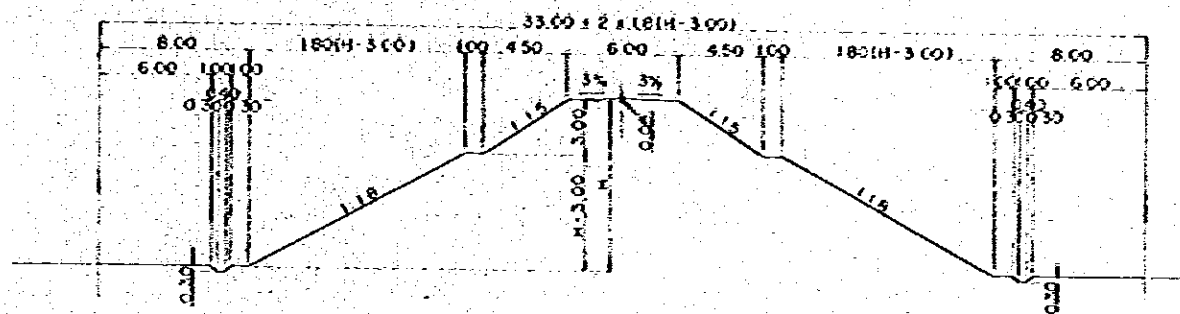
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (1965-1967)		
TEMPORARY TRACK PROFILE AND PLAN		
367 <sup>K</sup> +090 <sup>M</sup> ~ 367 <sup>K</sup> +454 <sup>M</sup>		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	23



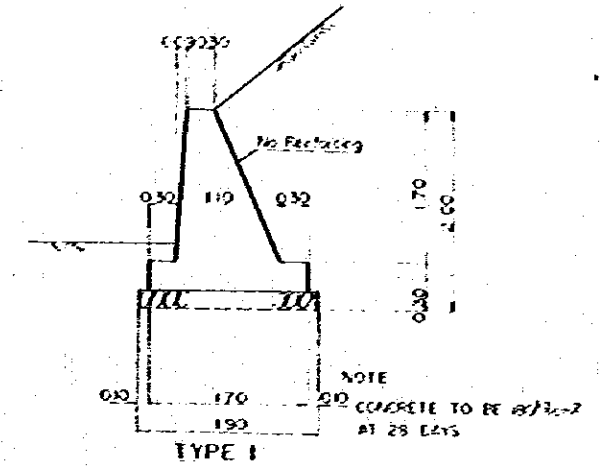
TRACK CLEARANCE S=1.20



BANKING SECTION (IN CASE OF EMBANKMENT OF LESS THAN 5.0<sup>m</sup>)

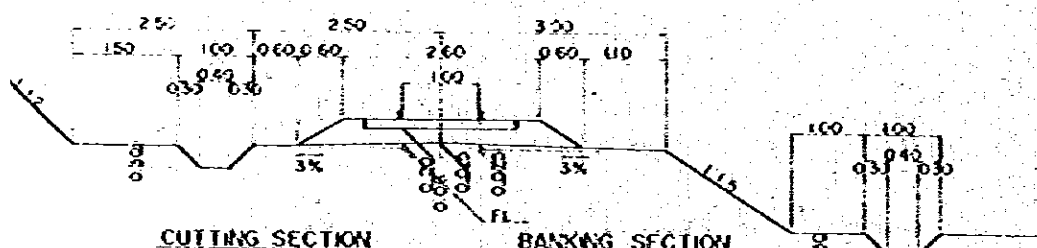


BANKING SECTION (IN CASE OF EMBANKMENT OF MORE THAN 5.0<sup>m</sup>)

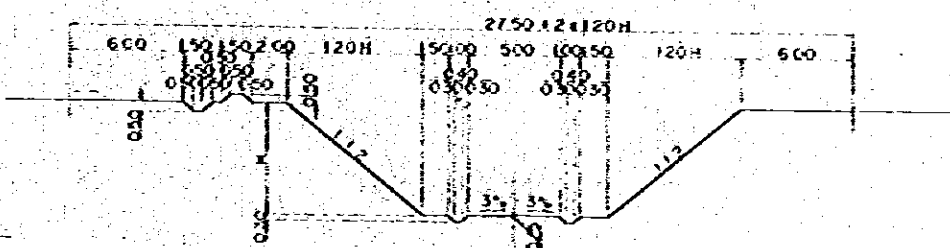


NOTE  
CONCRETE TO BE REINFORCED  
AT 28 DAYS

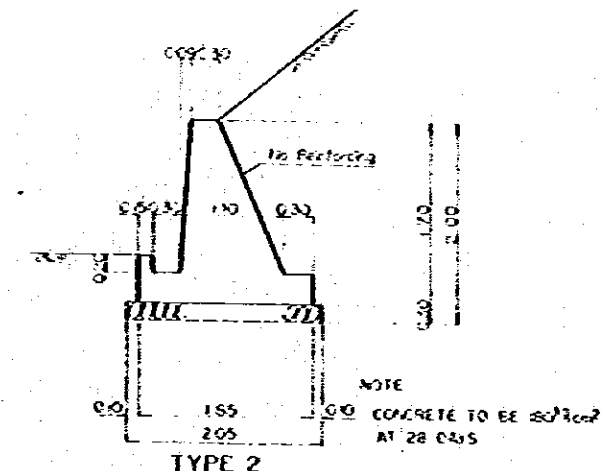
TYPE 1



CUTTING SECTION BANKING SECTION  
STRAIGHT TRACK SECTION S=1.50



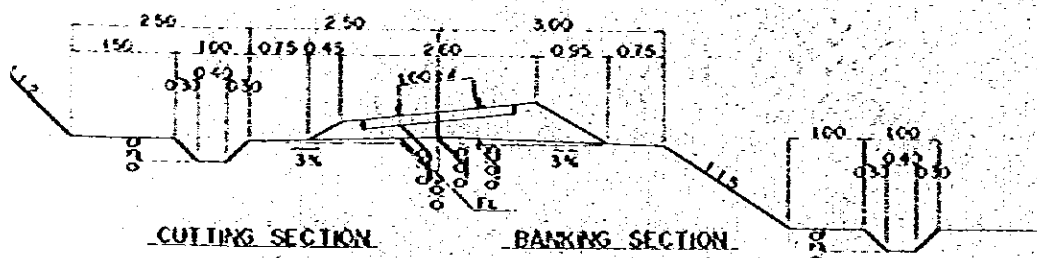
CUTTING SECTION  
ROADWAY DIMENSION S=1.200



NOTE  
CONCRETE TO BE REINFORCED  
AT 28 DAYS

TYPE 2

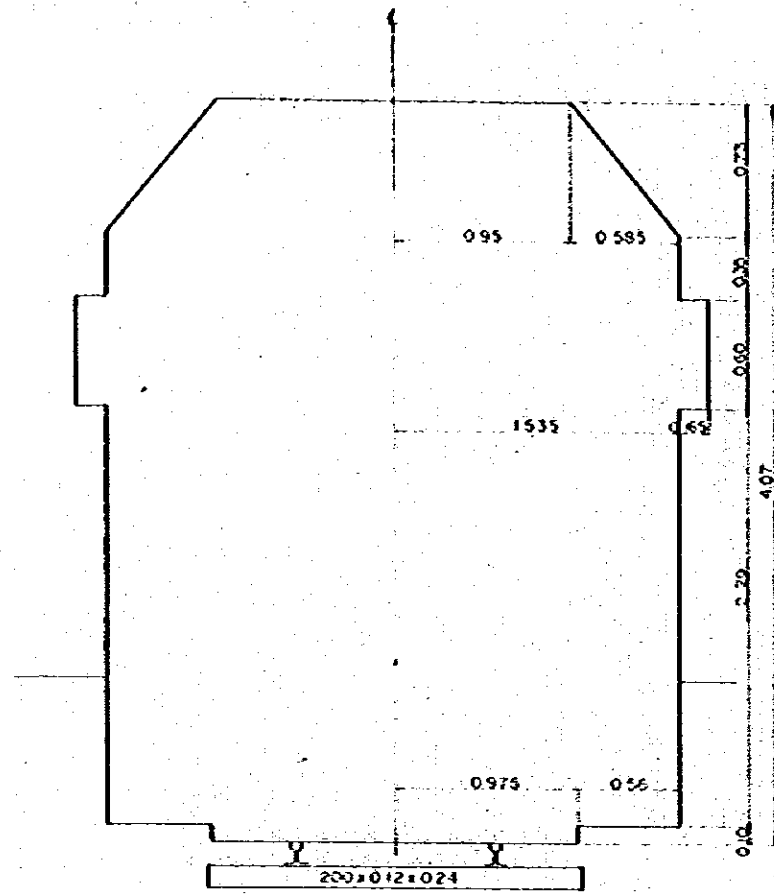
TYPICAL OF RETAINING WALL S=1.40



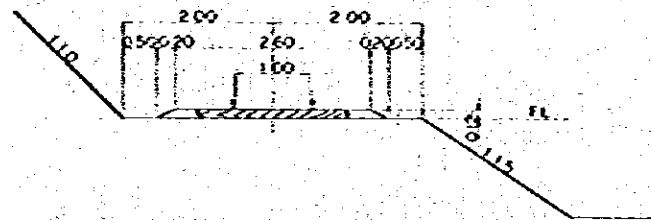
CUTTING SECTION BANKING SECTION  
CURVED TRACK SECTION

TRACK CONSTRUCTION S=1.50

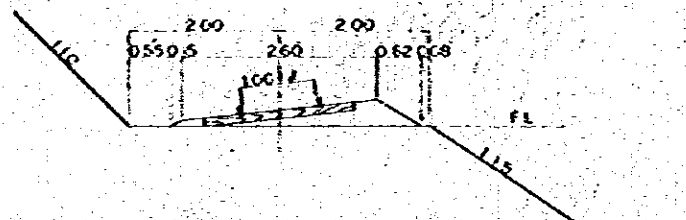
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (IPIAS BORQUE)		
ROADWAY DIMENSION FOR NEW LINE		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No 24



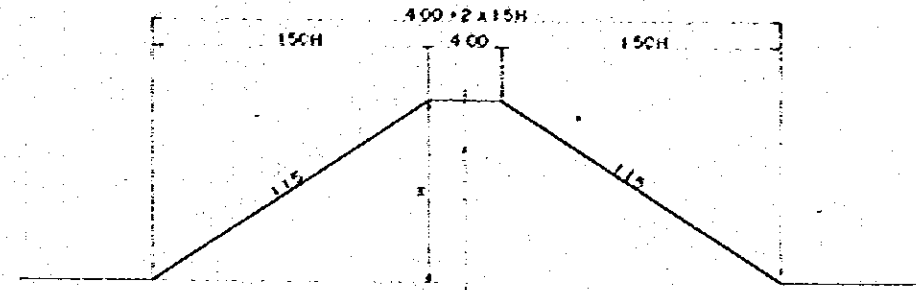
TRACK CLEARANCE S:1.20



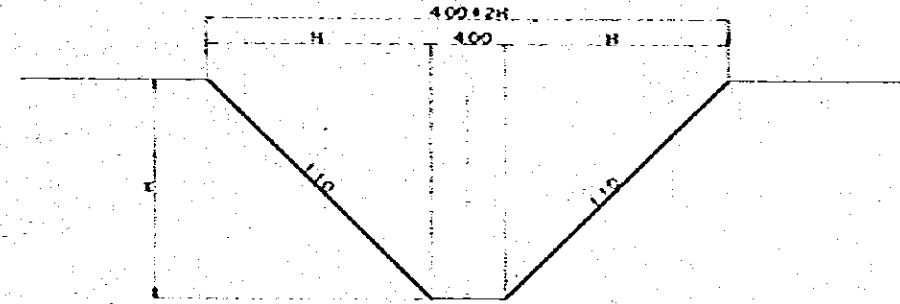
CUTTING SECTION BANKING SECTION  
STRAIGHT TRACK SECTION S:1.50



CUTTING SECTION BANKING SECTION  
CURVED TRACK SECTION  
TRACK CONSTRUCTION S:1.50

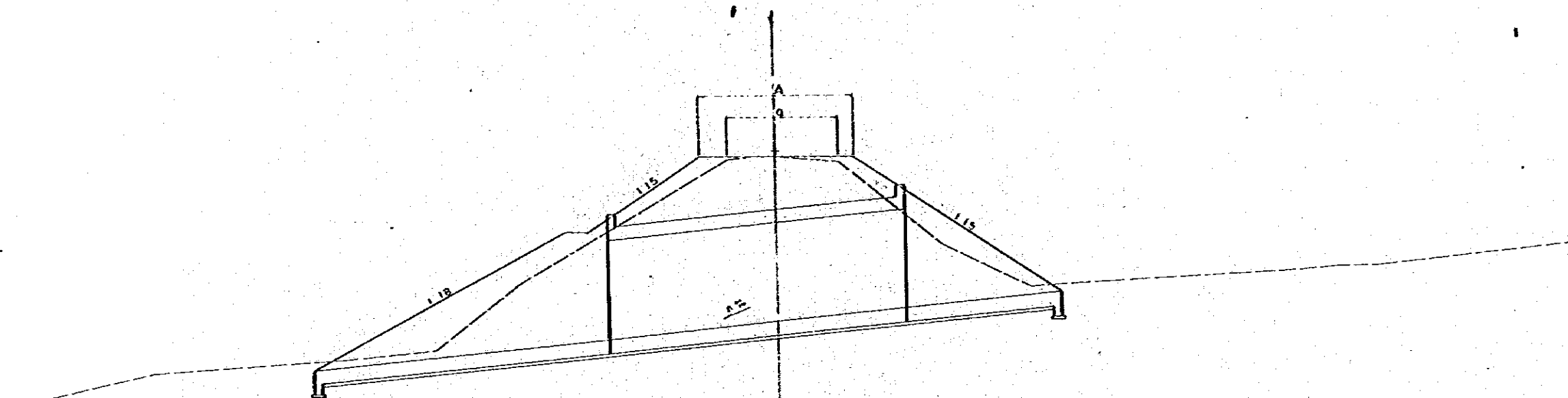


BANKING SECTION

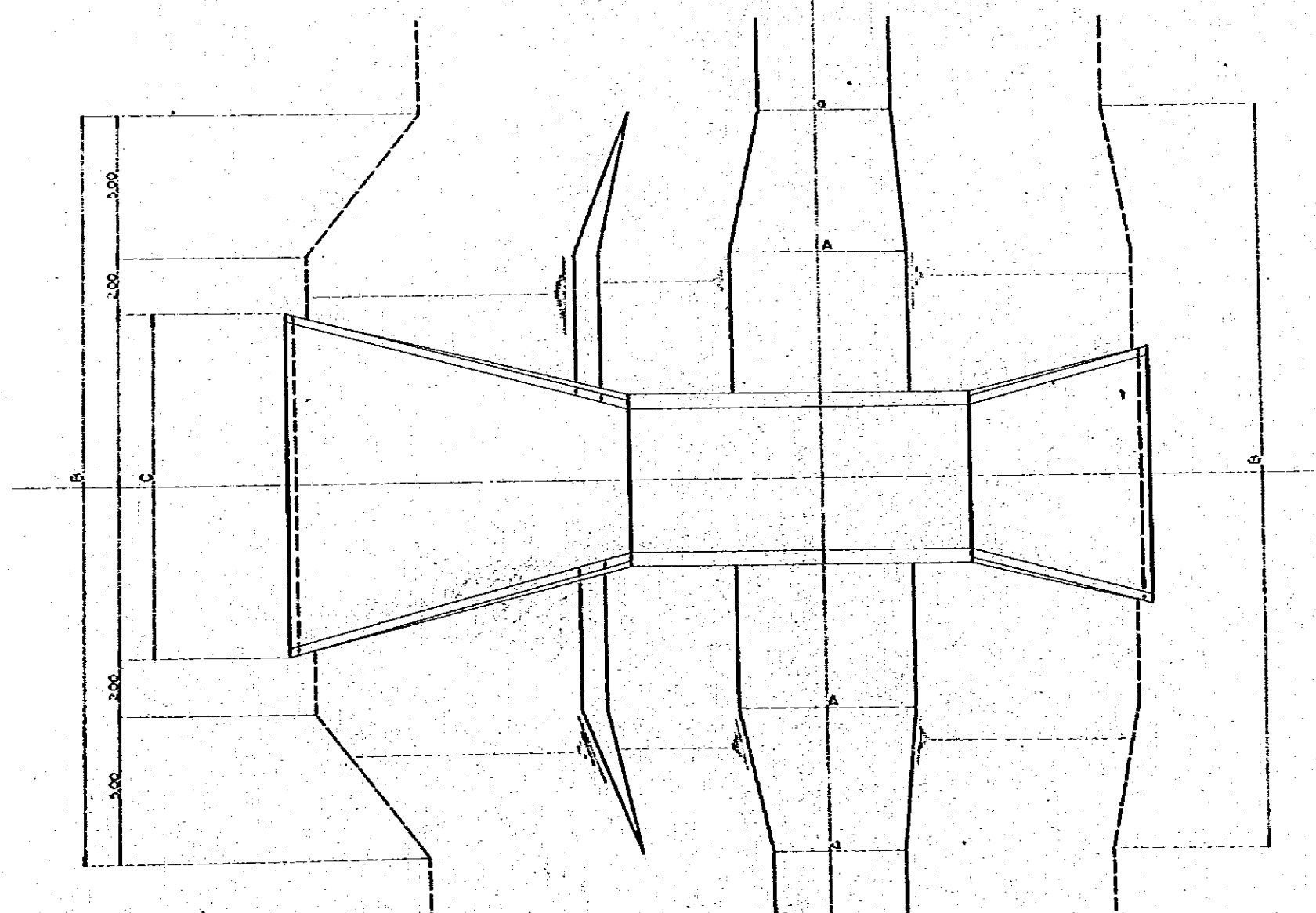


CUTTING SECTION  
ROADWAY DIMENSION S:1.200

ENTRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (1974S B0063)		
ROADWAY DIMENSION		
FOR TEMPORARY TRACK		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	25



SECTION



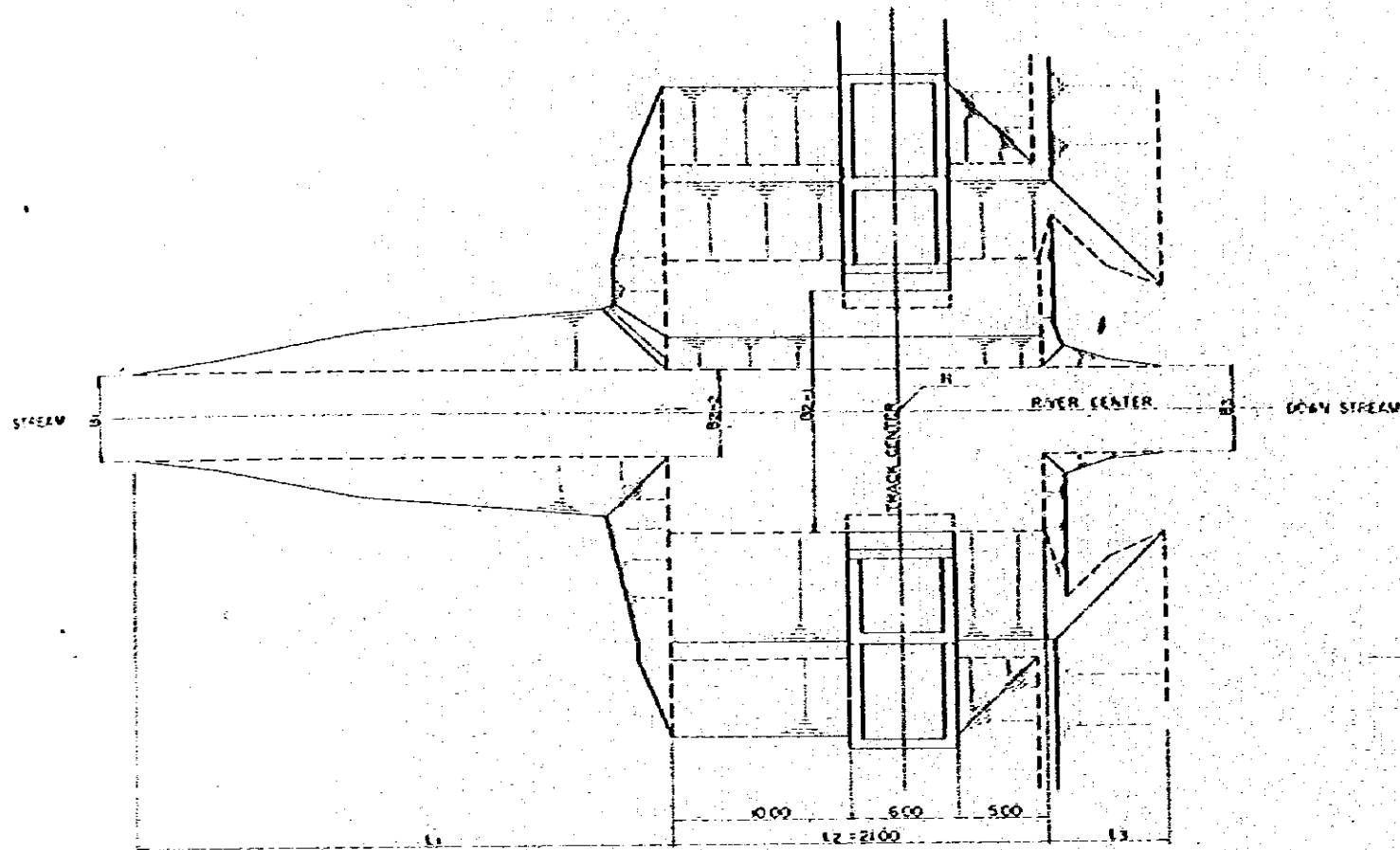
PLAN

	A	B	C
357' x 413'	1161	1953	553
352' x 284'	60	258	118
364' x 718'	678	622	4821
367' x 273'	722	2597	1197

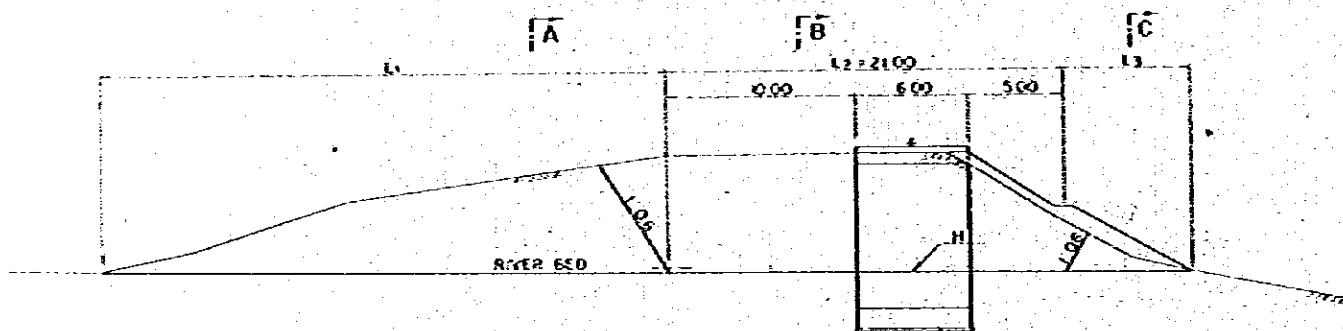
NOTES

- a EXISTING ELEVATION BOTH
- A PROPOSED ELEVATION BOTH
- B LIMIT OF EARTHWORKS
- C WIDTH OF STRUCTURES

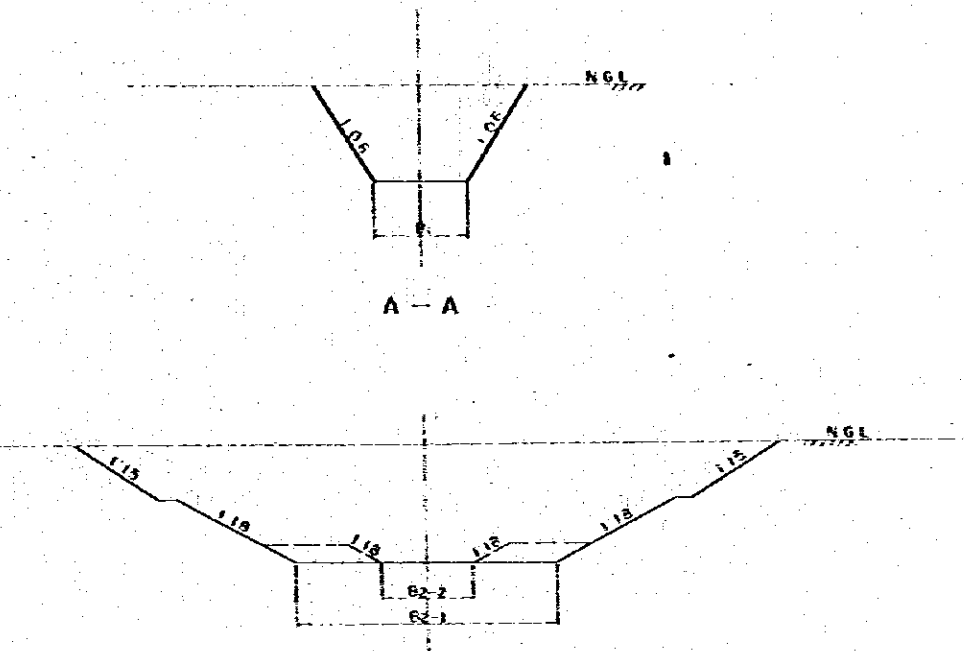
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (1945-1960)		
ROADWAY DIMENSION		
FOR BOX CULVERTS		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No. 26



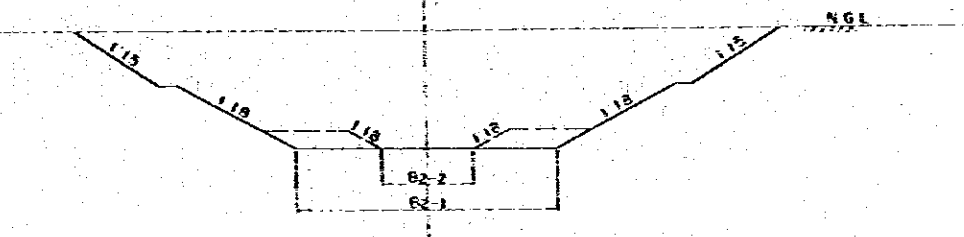
PLAN S=1:200



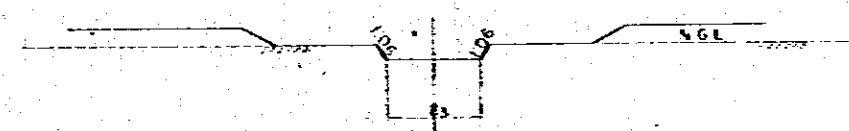
VERTICAL SECTION S=1:200



A - A



B - B



C - C

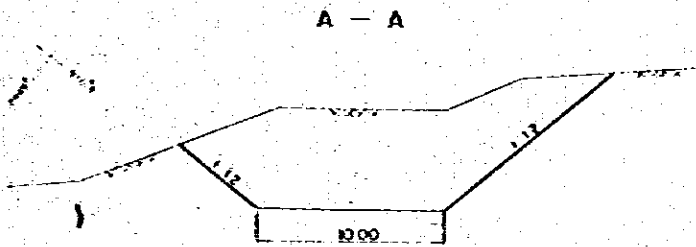
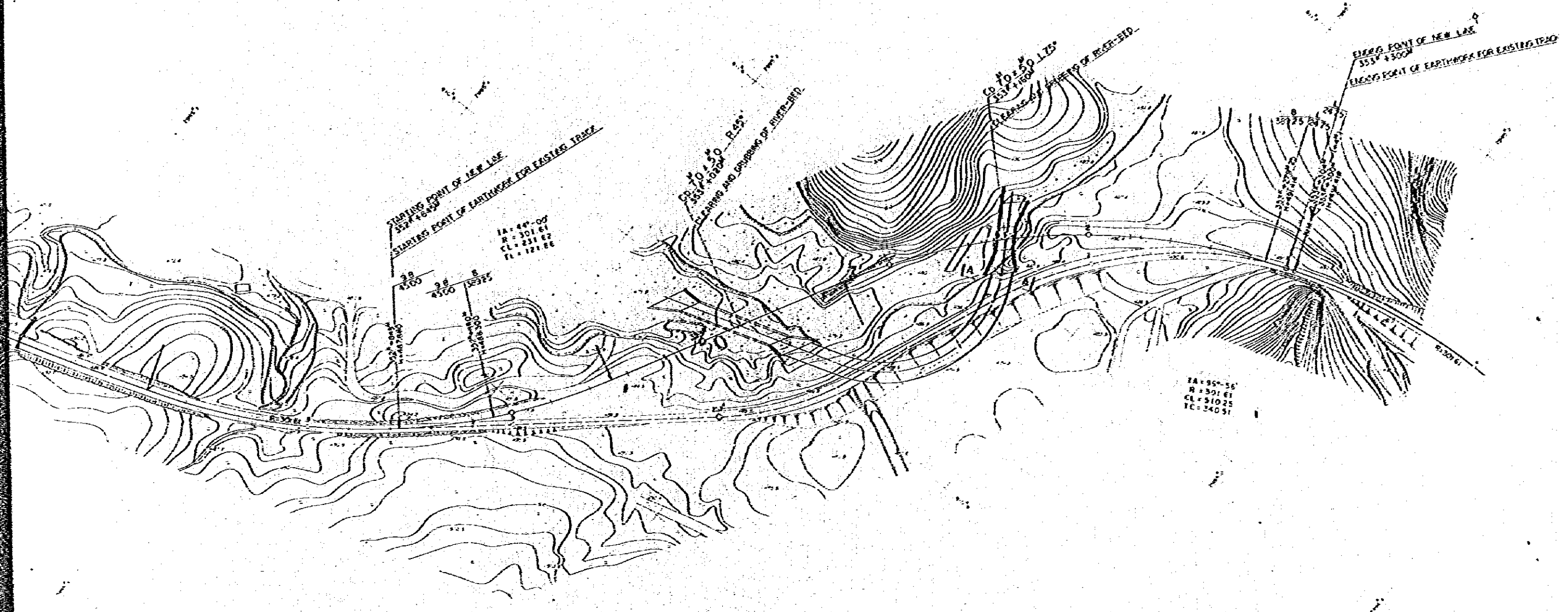
SECTION S=1:200

TABLE

KM	M	H	B <sub>1</sub>	L <sub>1</sub>	B <sub>2-1</sub>	B <sub>2-2</sub>	L <sub>2</sub>	B <sub>3</sub>	L <sub>3</sub>
347	428	467.0	50	180	50	-	210	50	-
354	540	475.5	50	168	140	-	210	50	56.2
355	208	472.3	50	136	140	-	210	50	16.6
355	448	471.0	50	320	140	-	210	50	5.8
356	307	449.2	100	110	150	-	210	130	50.5
358	155	448.0	50	250	140	50	210	50	30
359	186	443.5	140	150	140	-	210	140	-
360	364.5	426.0	200	60	350	-	210	-	-
361	725	413.5	50	290	150	50	210	50	250
363	575	400.0	70	520	180	-	210	70	0
366	780	266.6	10	50	810	-	210	10	3000

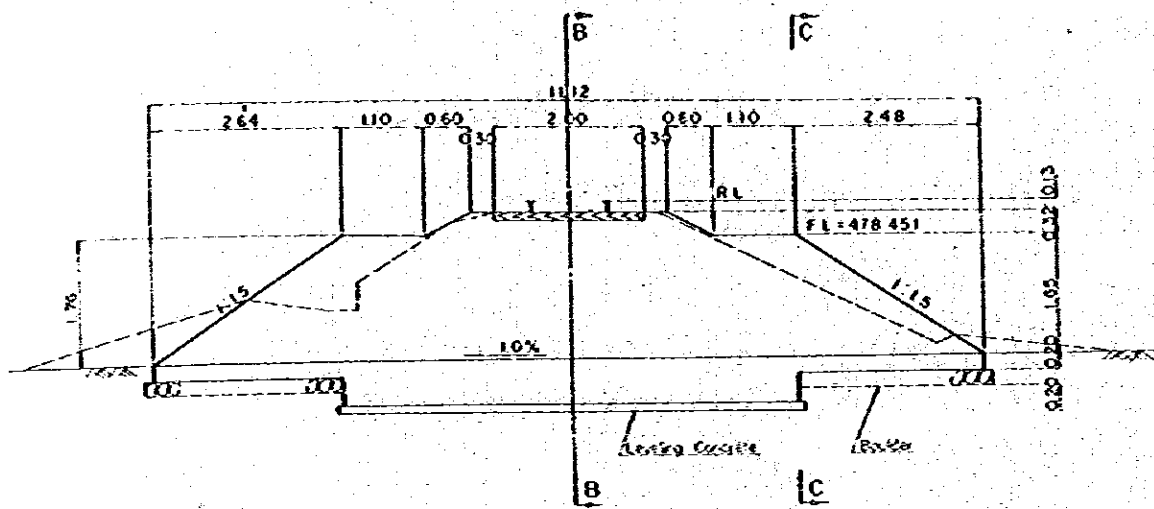
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (IFRUS-BOGOTÁ)		
TYPICAL EARTH WORK FOR CLEARING AND GRUBBING OF RIVER-BED		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No. 27



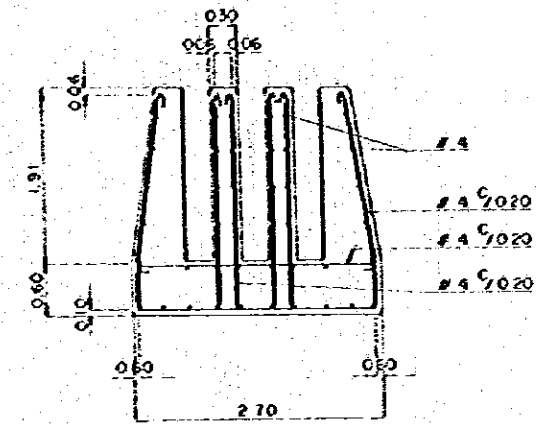


EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (UPAS IN-CHARGE)		
RE-ROUTING OF RIVER CHANNEL		
ABOUT 353K+100M		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No 28

346<sup>K</sup>+211<sup>M</sup>  
RL=478 901

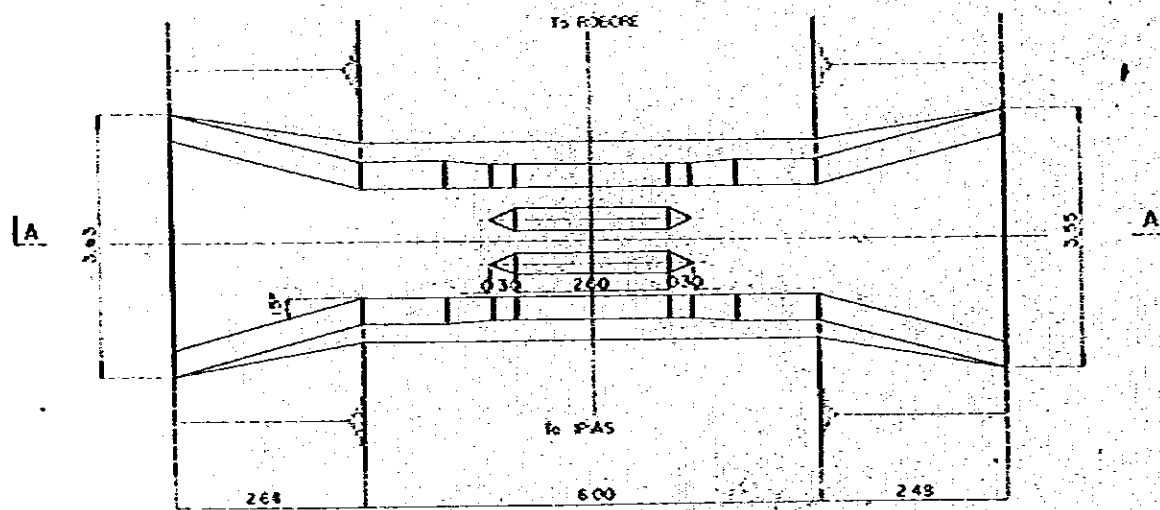


SECTION A - A

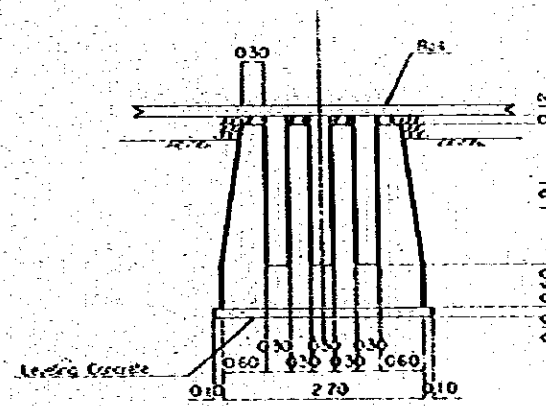


B - B

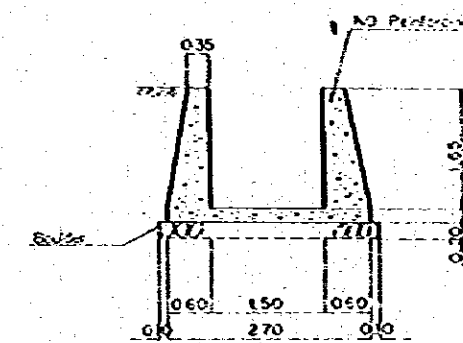
BAR ARRANGEMENT S=1.40



PLAN S=1.50



B - B



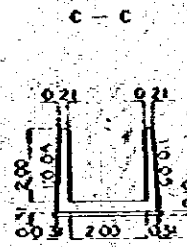
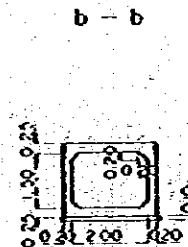
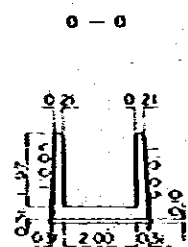
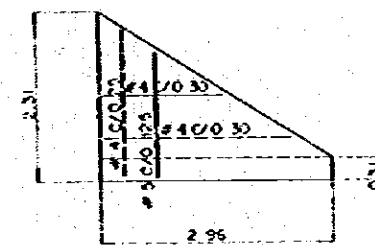
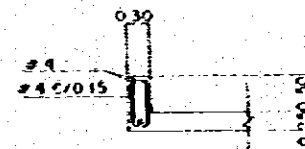
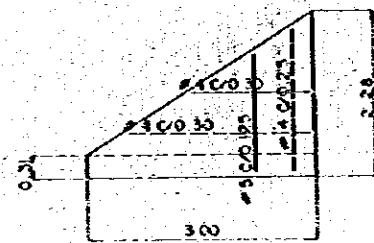
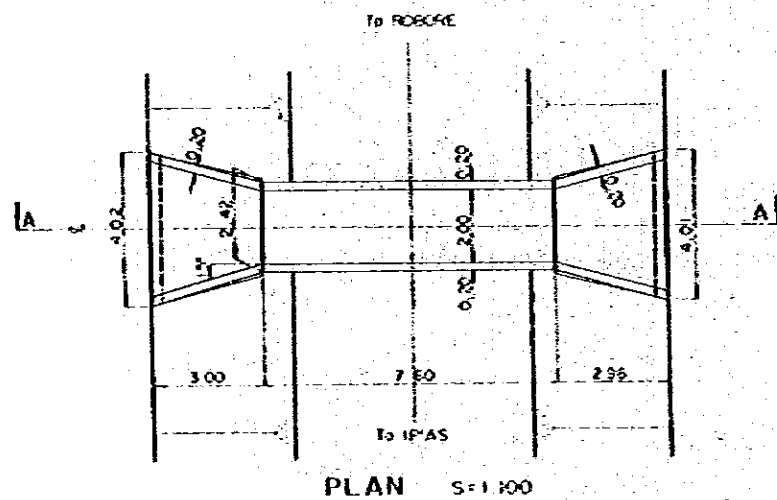
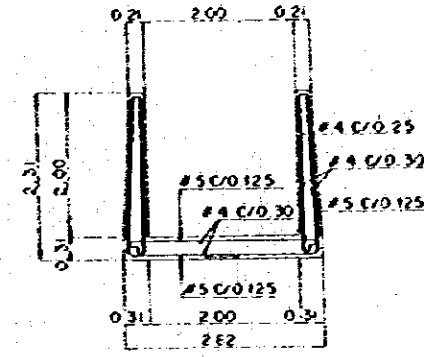
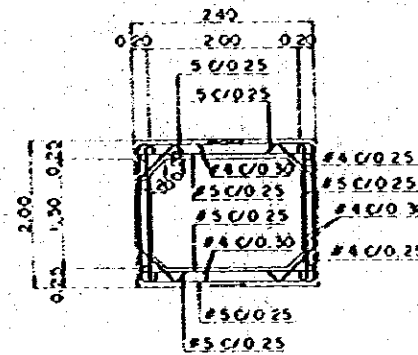
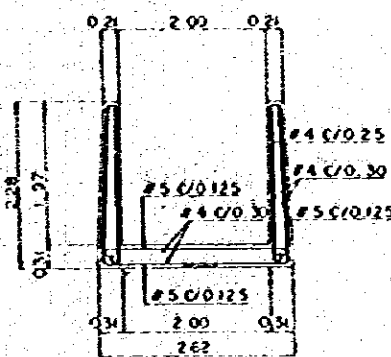
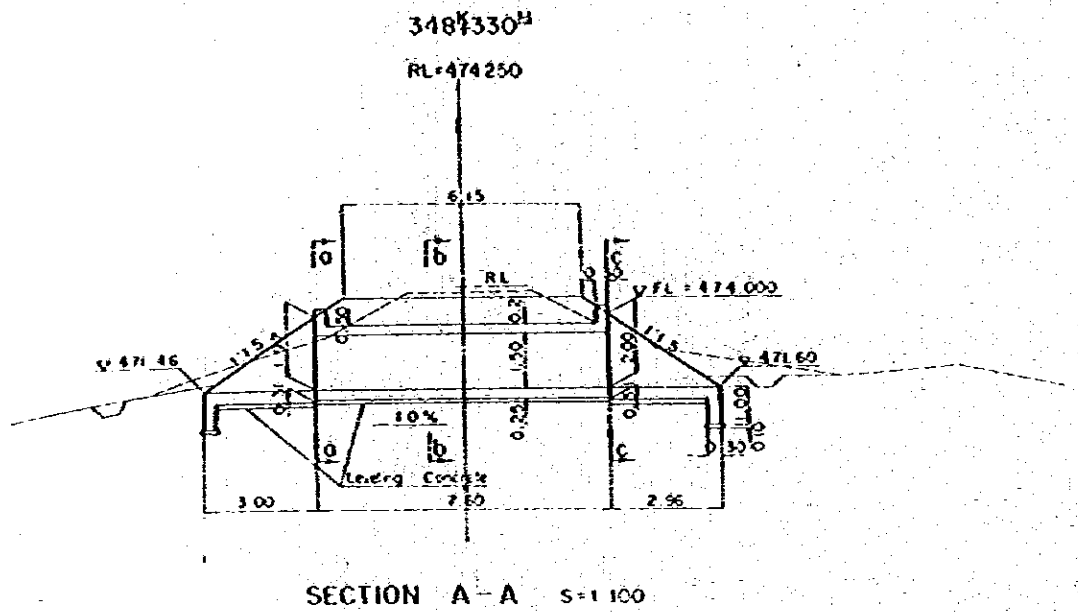
C - C

SECTION S=1.50

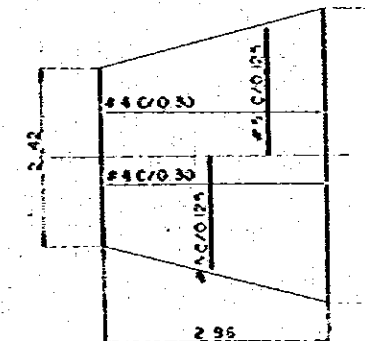
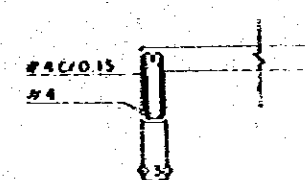
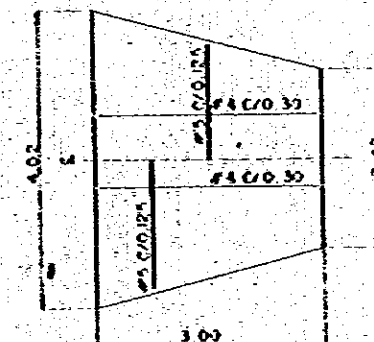
NOTES

- 1 COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS
- (a) STRUCTURAL CONCRETE  $f_{c'}=200\text{kg/cm}^2$
- (b) LEVELING CONCRETE  $f_{c'}=100\text{kg/cm}^2$
- 2 REINFORCING STEEL BAR
- ASTM A615 GRADE 60 OR A616 GRADE 60 OR A617 GRADE 60

EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (1974-1982)		
346 <sup>K</sup> +211 <sup>M</sup> OPEN DRAINAGE (Des)		
GENERAL VIEW		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No. 29

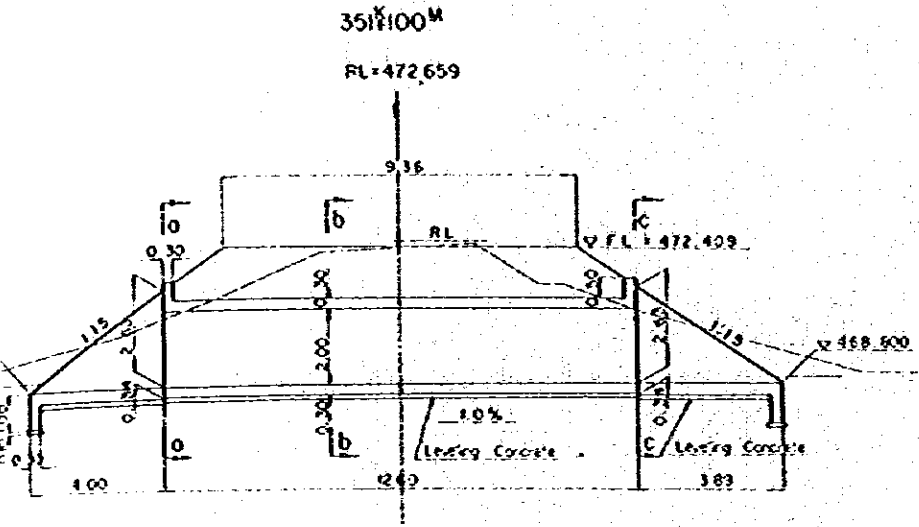


SECTION S=1:100

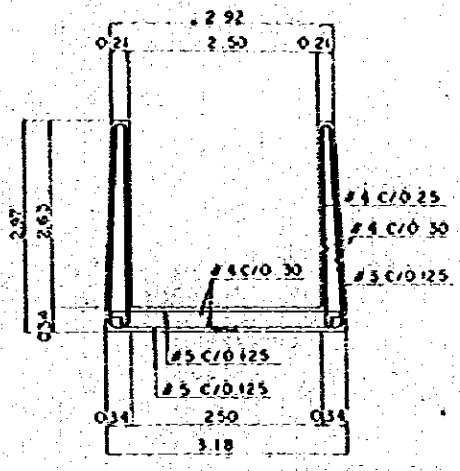


BAR ARRANGEMENT S=1:50

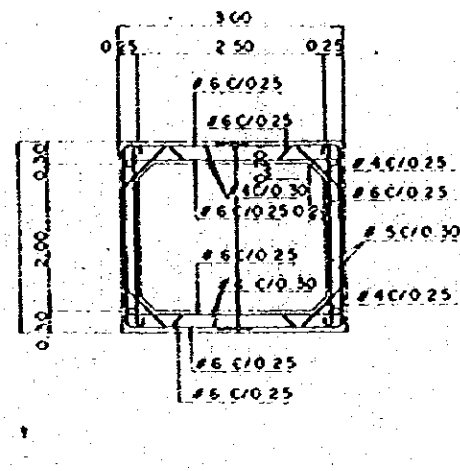
EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (IPAS PROGRAM)		
348 <sup>M</sup> 1330 <sup>M</sup> BOX CULVERT (CB)		
GENERAL VIEW		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No 30



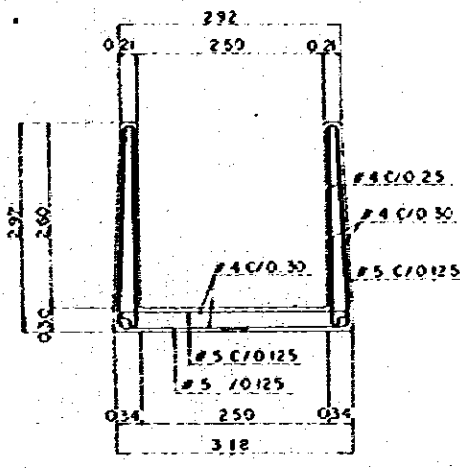
SECTION A - A S=1:100



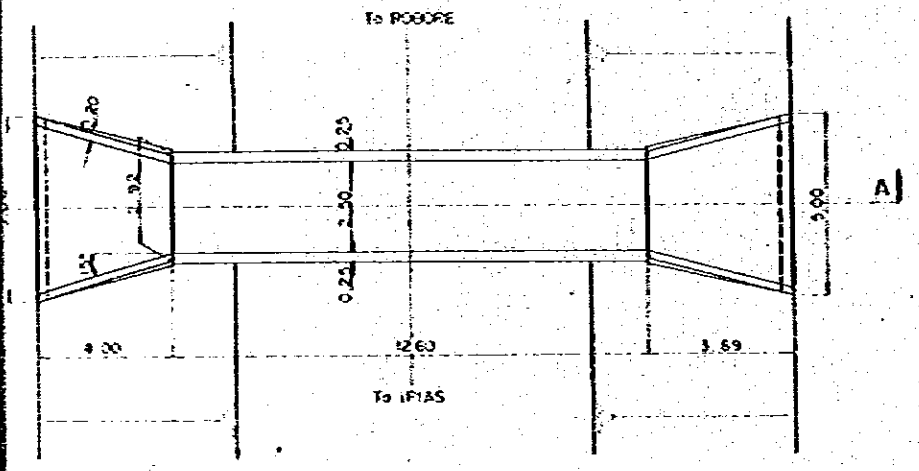
O - O



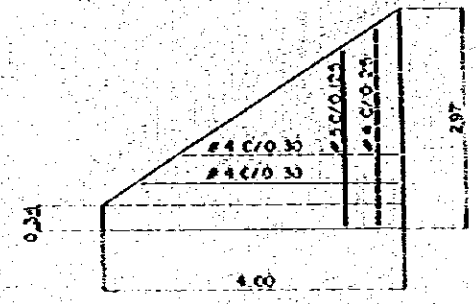
B - B



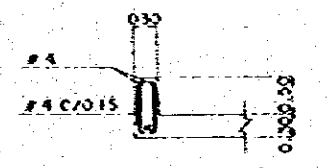
C - C



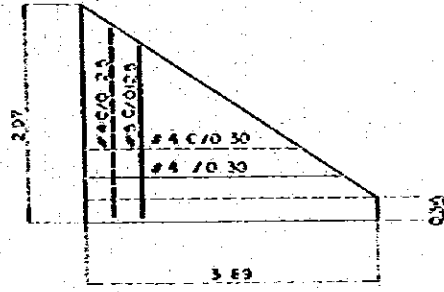
PLAN S=1:100



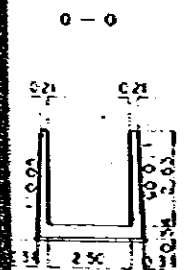
A



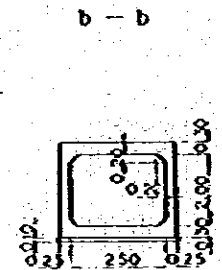
B



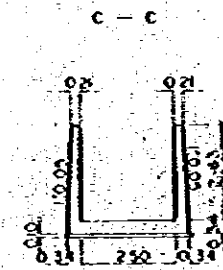
C



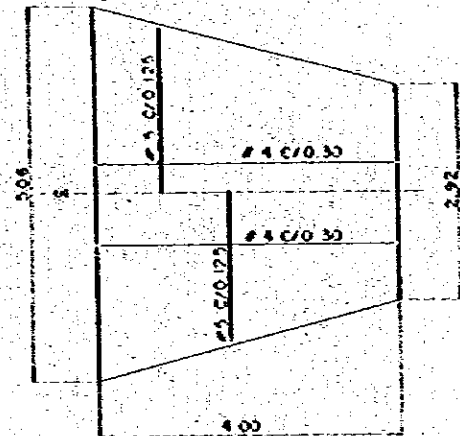
O - O



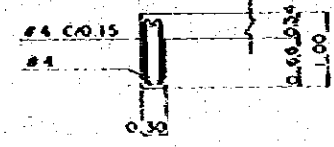
B - B



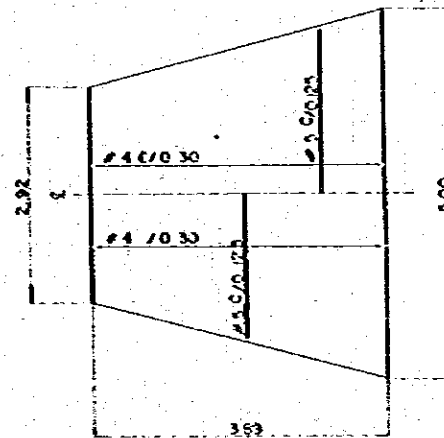
C - C



A



B



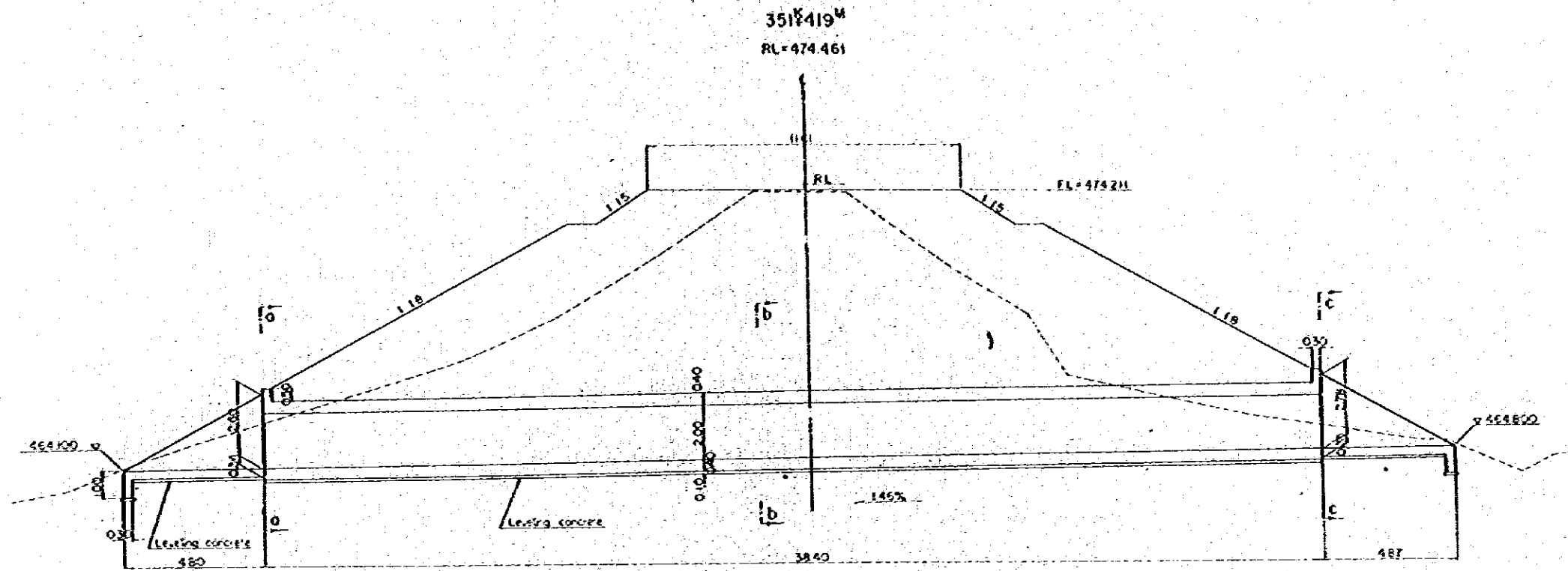
C

SECTION S=1:100

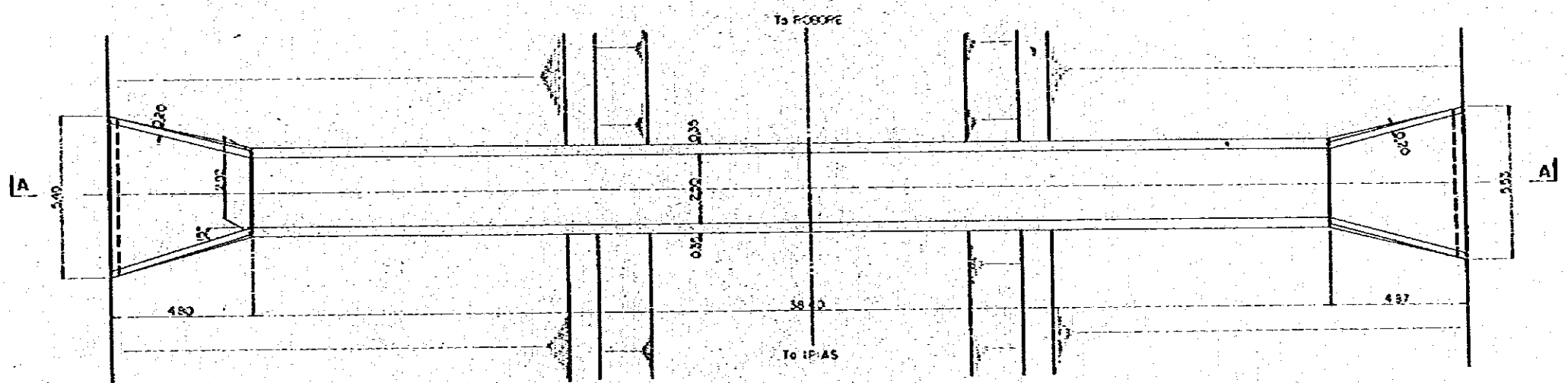
BAR ARRANGEMENT S=1:50

- NOTES
1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS
  2. REINFORCING STEEL BAR

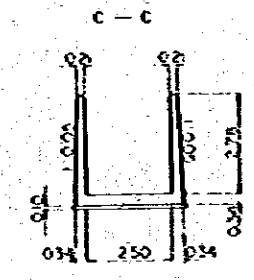
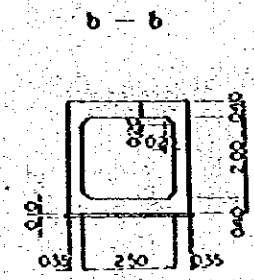
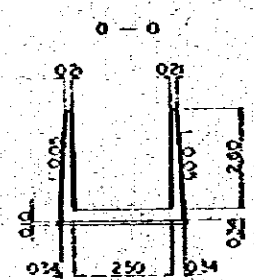
EXPRESA NACIONAL DE FERROCARRILES		
RAILWAY RECONSTRUCTION FRONT (TRAS BORDOS)		
351#100M BOX CULVERT (CB)		
GENERAL VIEW		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	31



SECTION A - A S=1:100



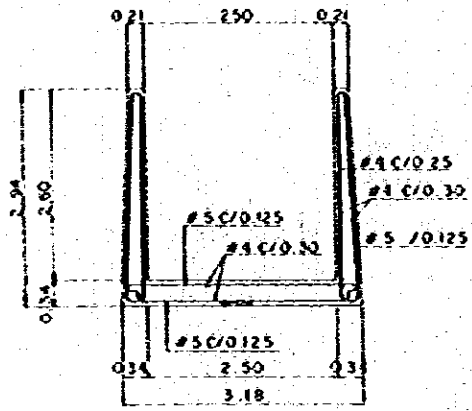
PLAN S=1:100



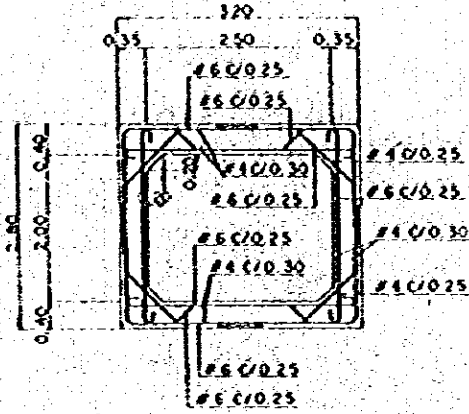
SECTION S=1:100

EMPRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (IP:AS BPO:02)		
351+419 <sup>M</sup> BOX CULVERT (CB)		
GENERAL VIEW		
Executing Enterprise		
Drawn by Date	Checked by Date	Accepted by Date
Contracting Enterprise		
Checked by Date	Accepted by Date	32

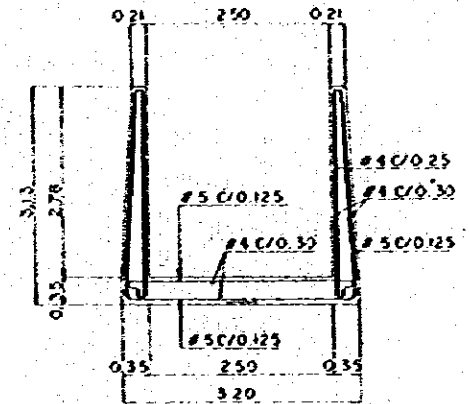
351<sup>K</sup>419<sup>M</sup>



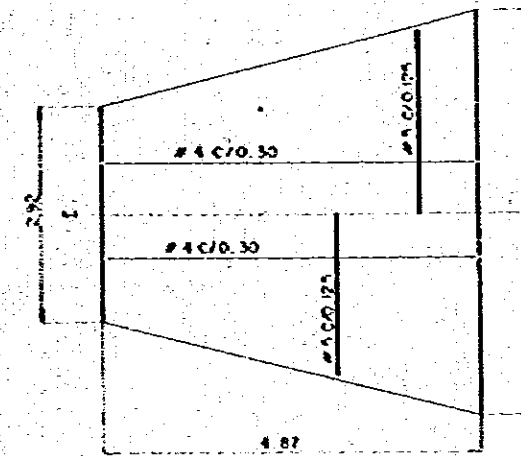
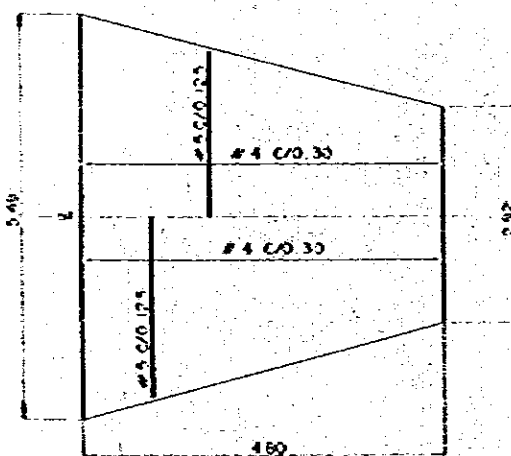
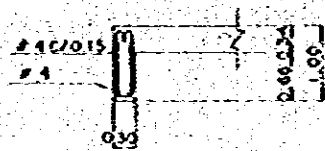
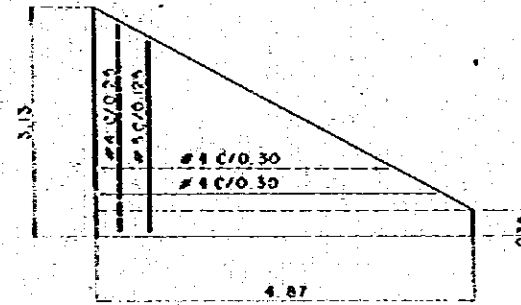
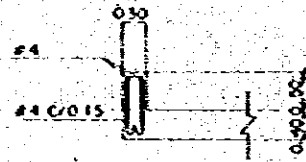
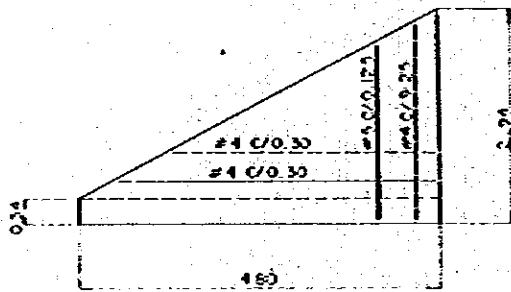
o - o



b - b



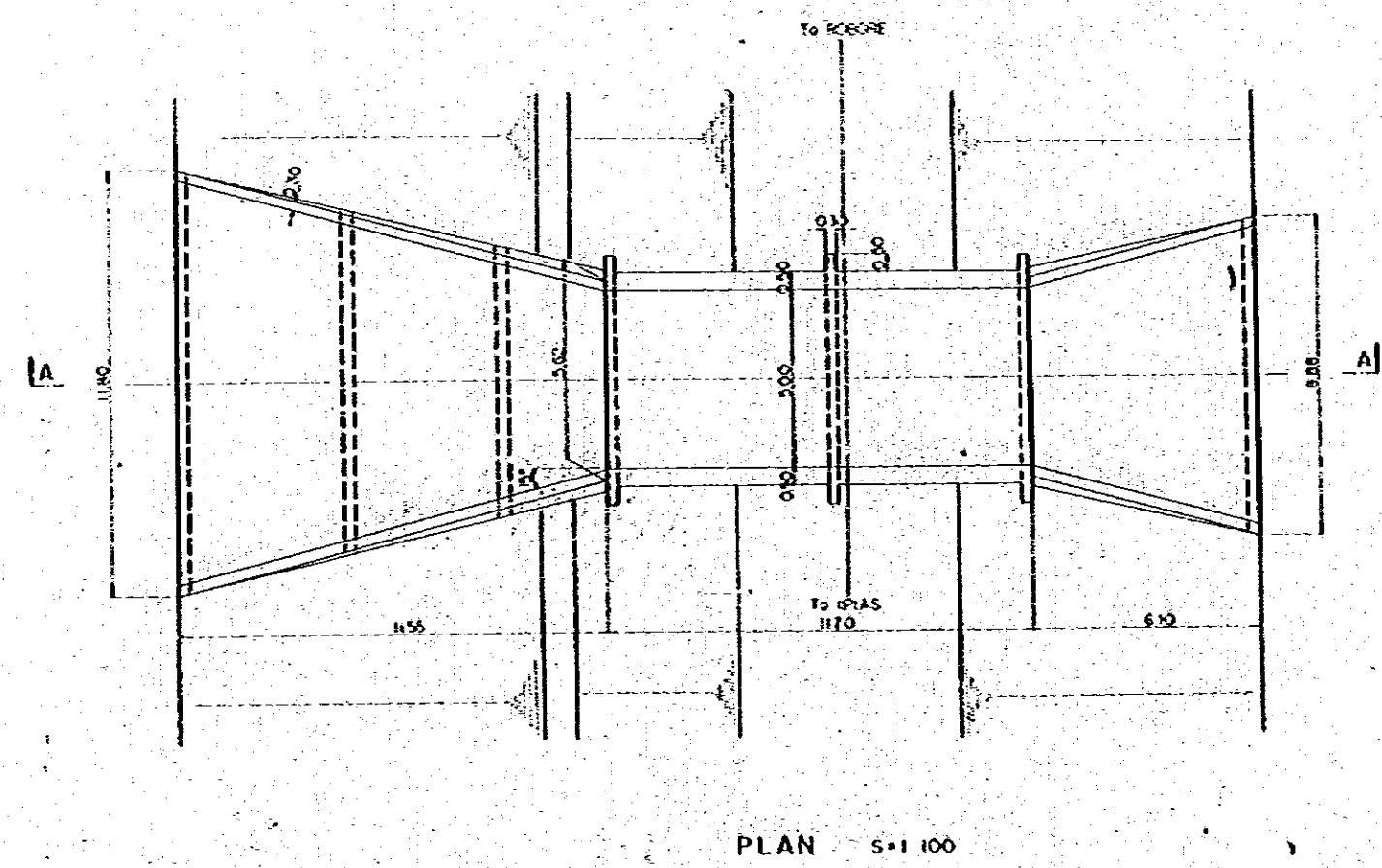
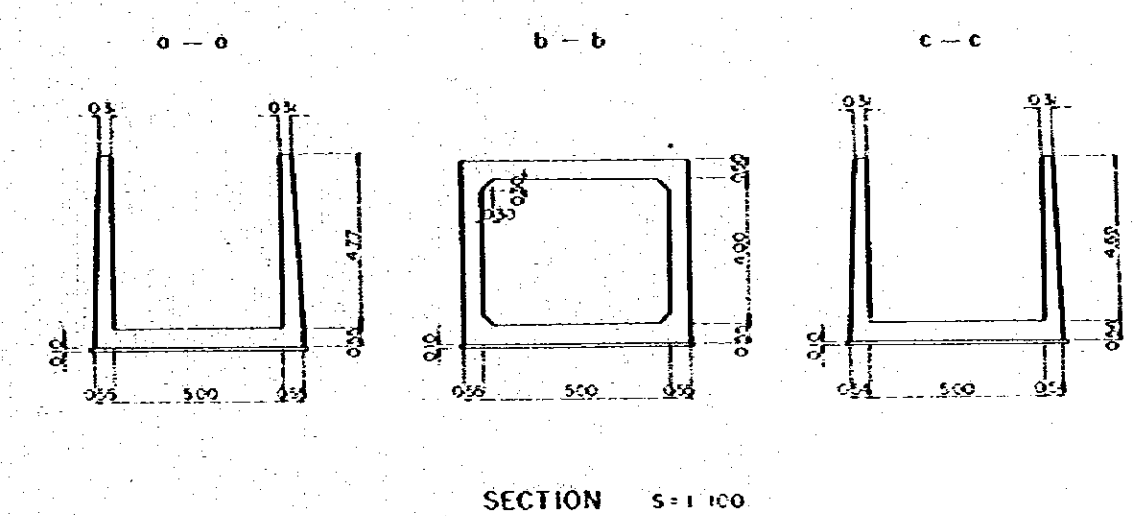
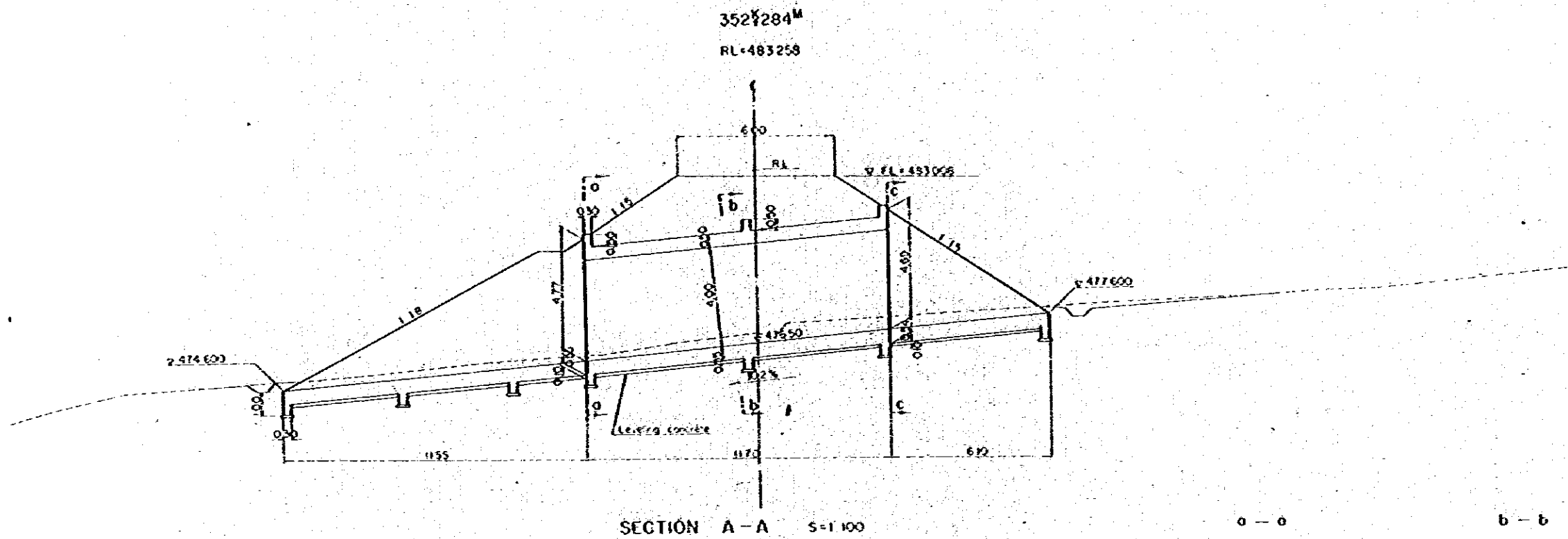
c - c



BAR ARRANGEMENT S=1.50

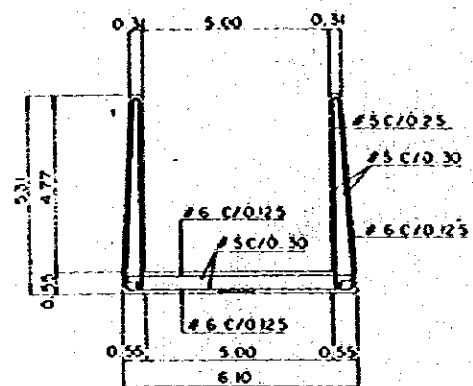
- NOTES
1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS  
 a) STRUCTURAL CONCRETE  $f_{28} = 20000 \text{ kg/cm}^2$   
 b) LEVELING CONCRETE  $f_{28} = 6000 \text{ kg/cm}^2$
  2. REINFORCING STEEL BAR  
 ASTM A615 GRADE 60 OR A616 GRADE 60 OR A617 GRADE 60

ENTRESA NACIONAL DE FERROCARRILES		
RAILWAY ADAPTATION PROJECT (IIRAS-BIGORRE)		
351 <sup>K</sup> 419 <sup>M</sup> BOX CULVERT (Cb)		
BAR ARRANGEMENT		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	No. 33

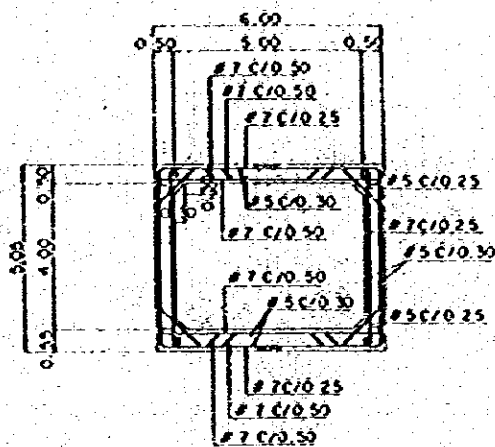


ENTRESA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION PROJECT (UPAS-ROBRED)		
352 <sup>R</sup> +284 <sup>M</sup> BOX CULVERT (CB)		
GENERAL VIEW		
Executing Enterprise		
Drawn by Date	Checked by Date	Agreed by Date
Contracting Enterprise		
Checked by Date	Agreed by Date	34

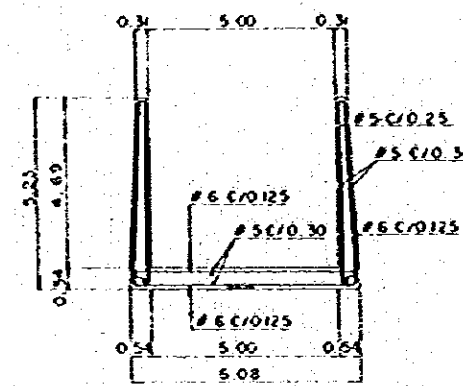
352<sup>K</sup>284<sup>M</sup>



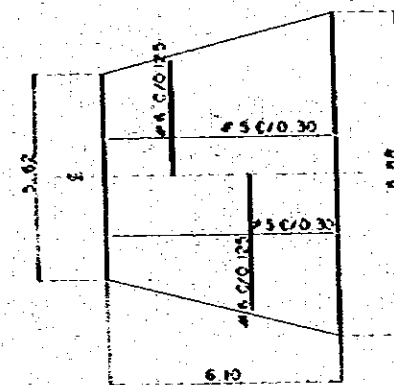
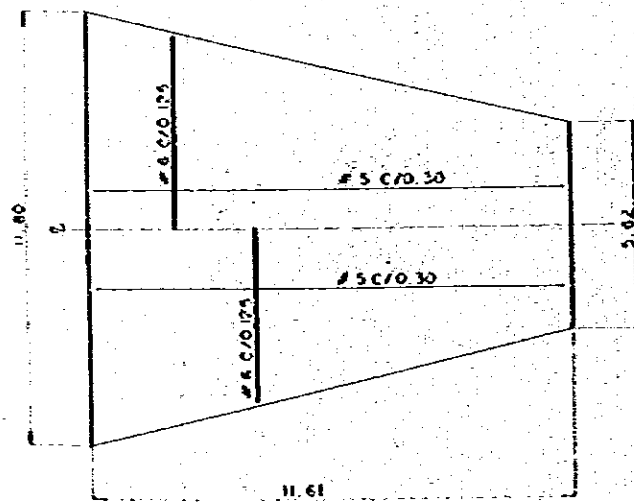
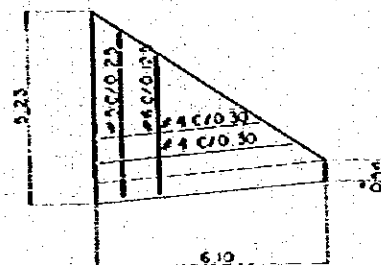
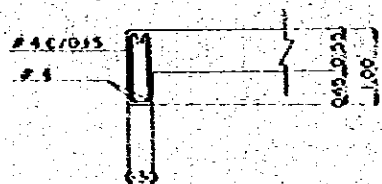
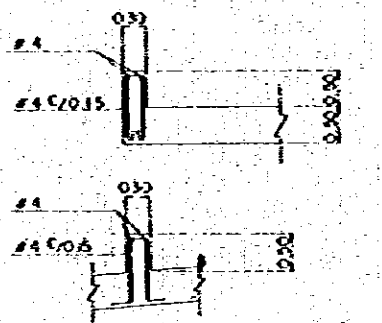
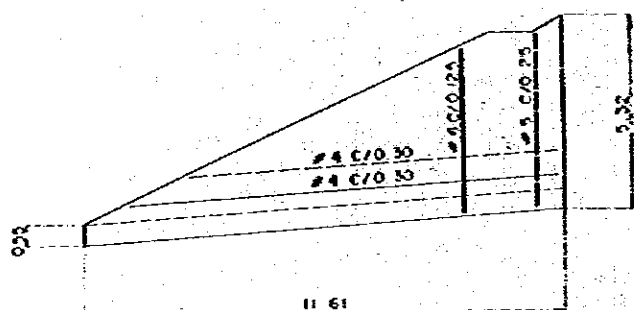
o - o



b - b



c - c



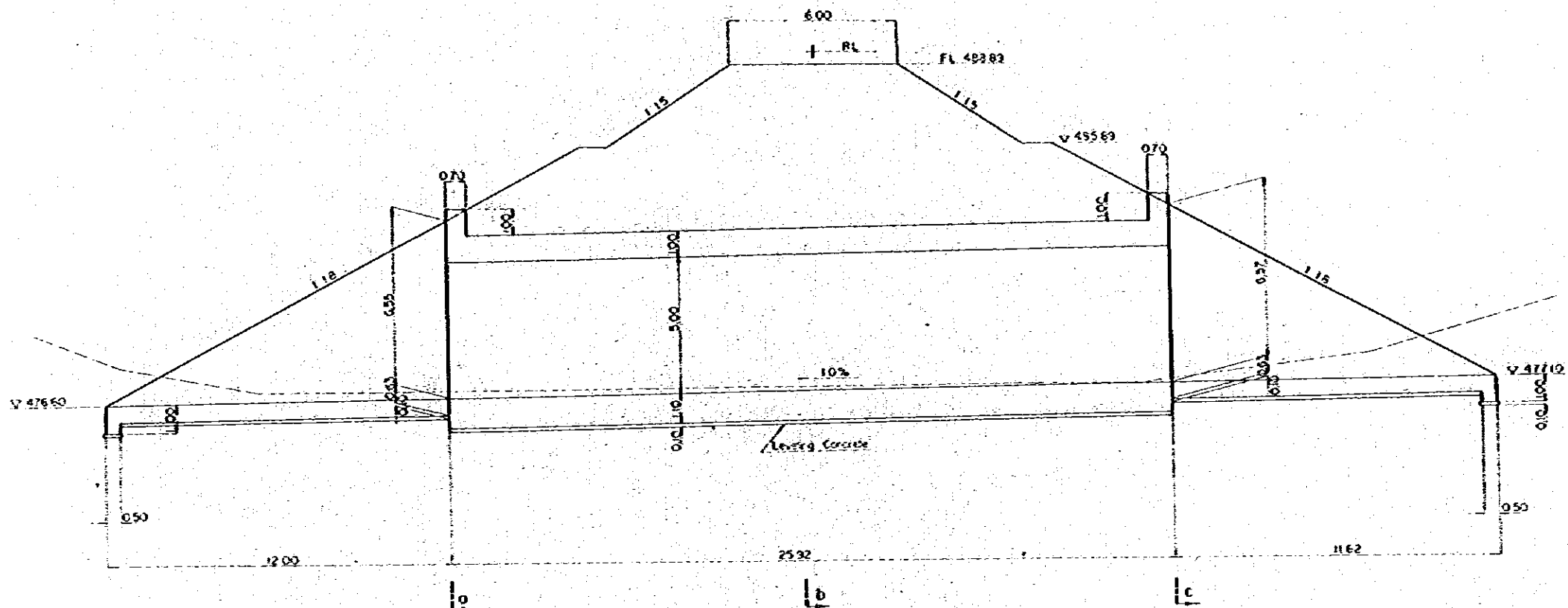
BAR ARRANGEMENT S=1 000,1 50

- NOTES
1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS  
 a) STRUCTURAL CONCRETE  $f_{28} = 20 \text{ N/cm}^2$   
 b) LEVELING CONCRETE  $f_{28} = 10 \text{ N/cm}^2$
  2. REINFORCING STEEL BAR  
 ASTM A65 GRADE 60 OR A65 GRADE 60 OR BS17 GRADE 60

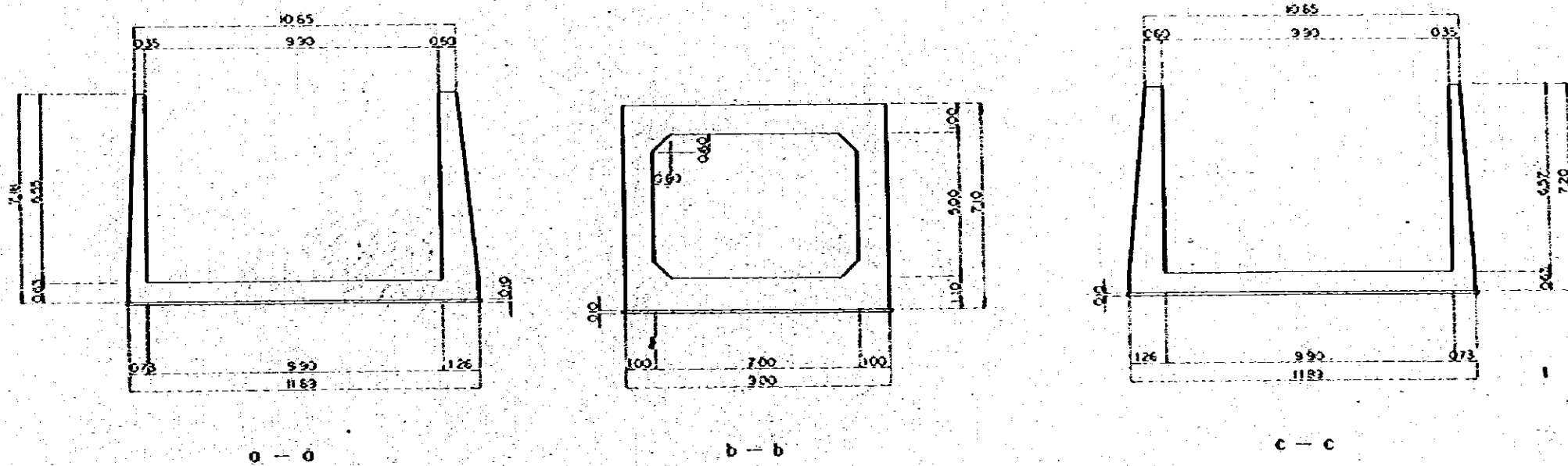
EMPRESA NACIONAL DE FERROCARRILES			
RAILWAY REHABILITATION PROJECT (IPAS RECORD)			
352 <sup>K</sup> +284 <sup>M</sup> BOX CULVERT (Cb)			
BAR ARRANGEMENT			
Executing Enterprise			
Drawn by Date	Checked by Date	Approved by Date	
Contracting Enterprise			
Checked by Date	Approved by Date	No	35



353<sup>M</sup>+020<sup>M</sup>  
 RL = 489.340



SECCIÓN A - A S = 1:100



SECCIÓN S = 1:100

ENTRASA NACIONAL DE FERROCARRILES		
RAILWAY REHABILITATION FRONT (FINAS 806042)		
353 <sup>M</sup> +020 <sup>M</sup> BOX CULVERT (Cb)		
GENERAL VIEW (Sheet 1 of 2)		
Executing Enterprise		
Drawn by Date	Checked by Date	Approved by Date
Contracting Enterprise		
Checked by Date	Approved by Date	36'