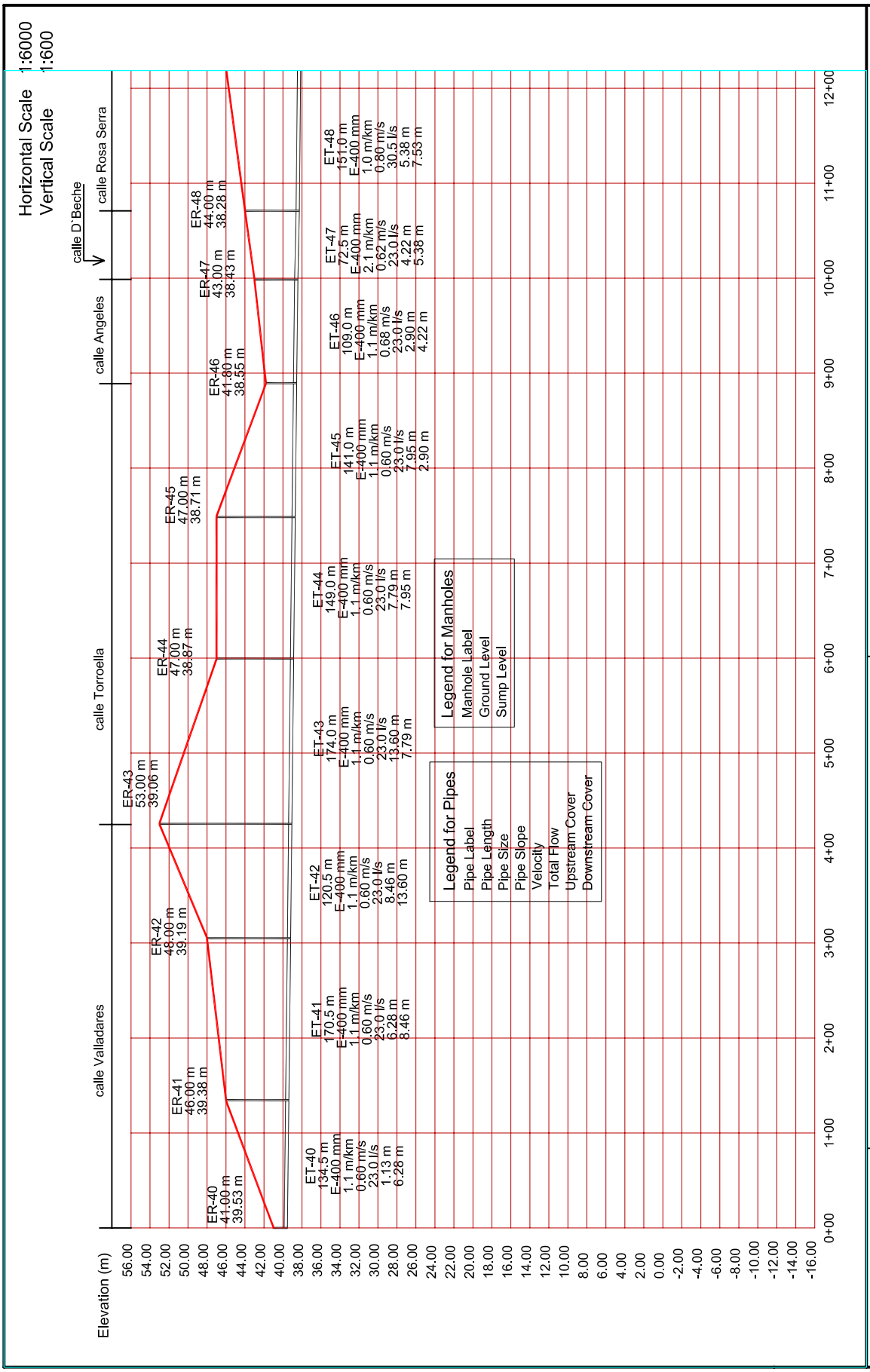
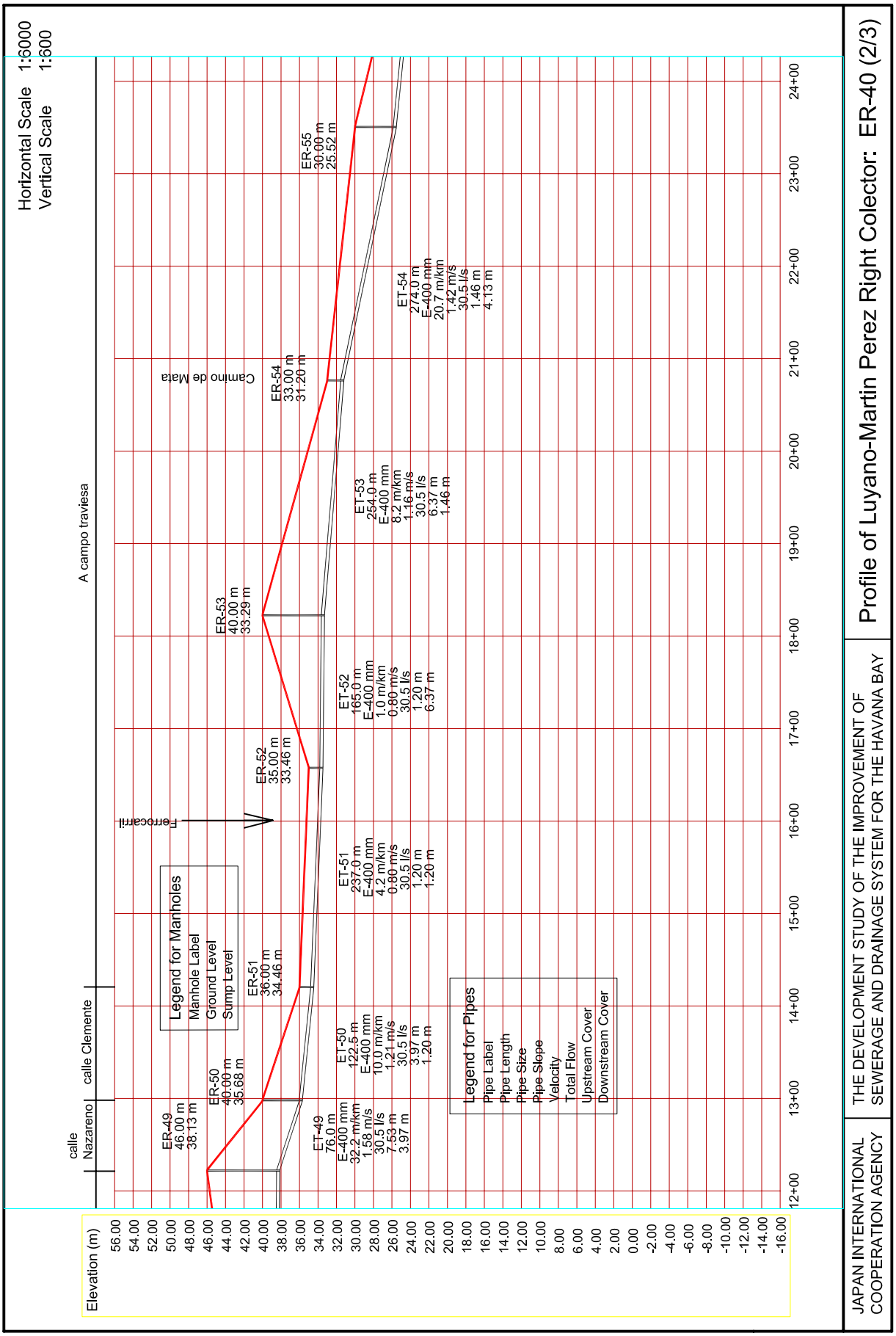


JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

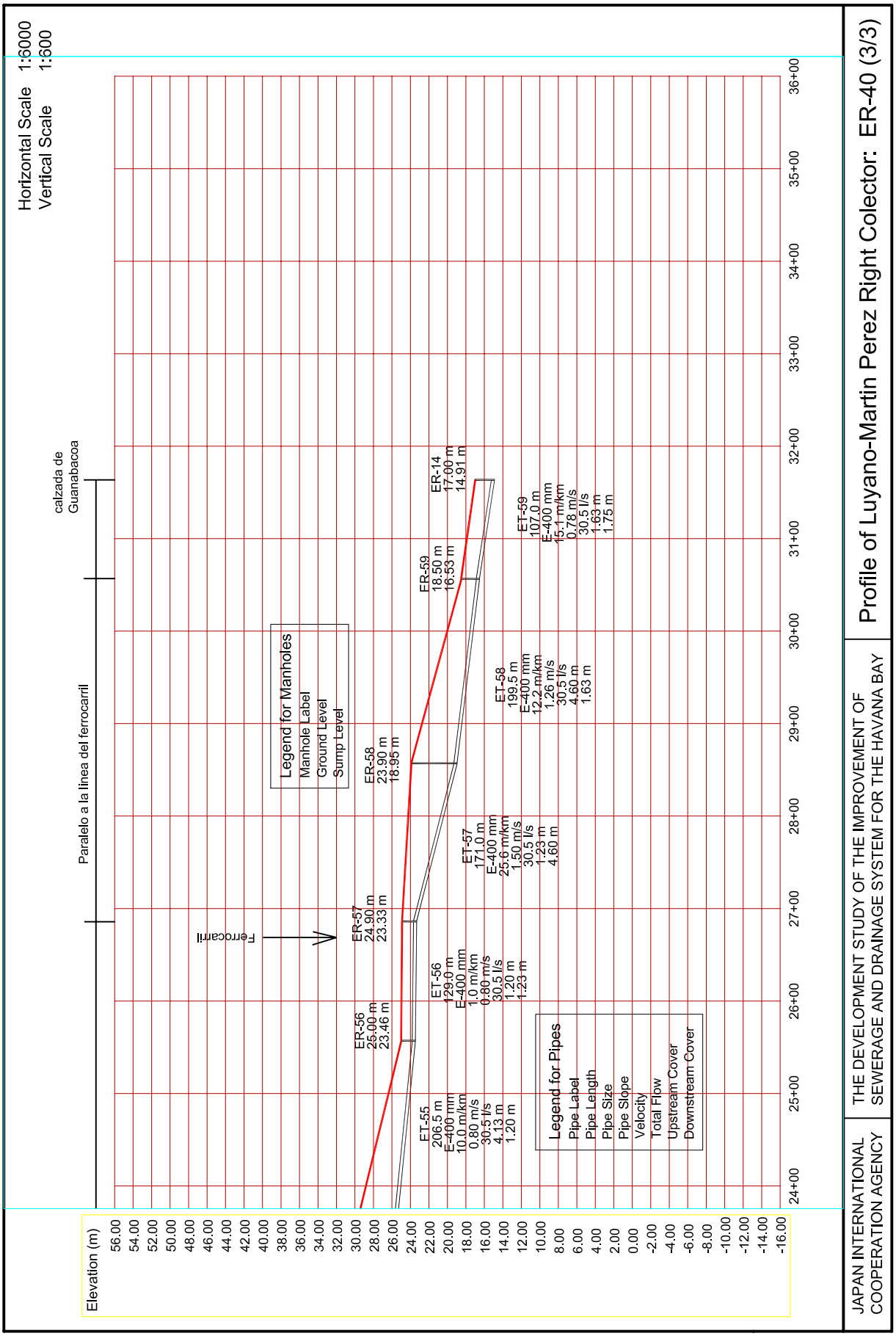
Profile of Luyano-Martin Perez Right Colector: ER-40 (1/3)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

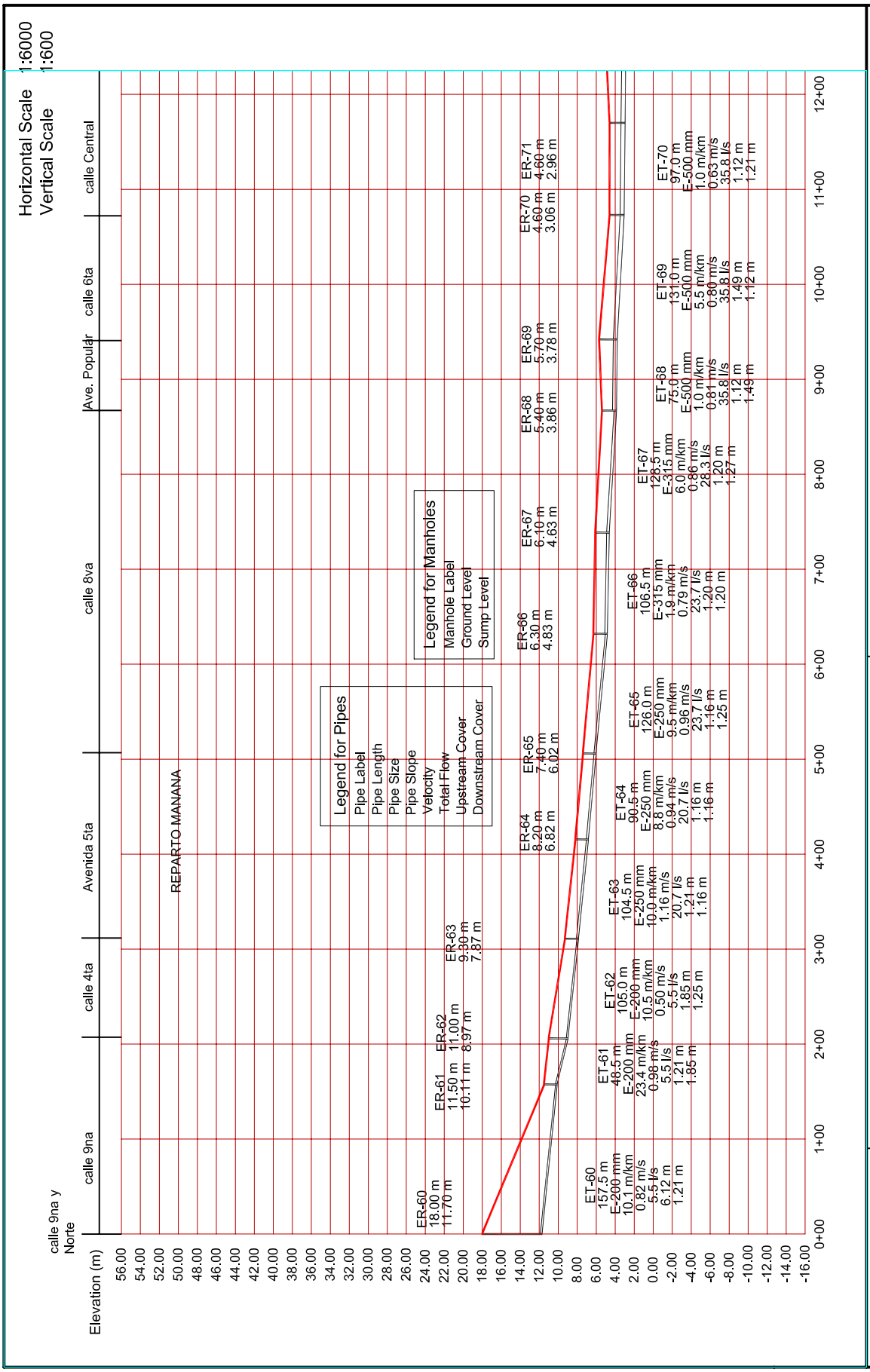
Profile of Luyano-Martin Perez Right Colector: ER-40 (2/3)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

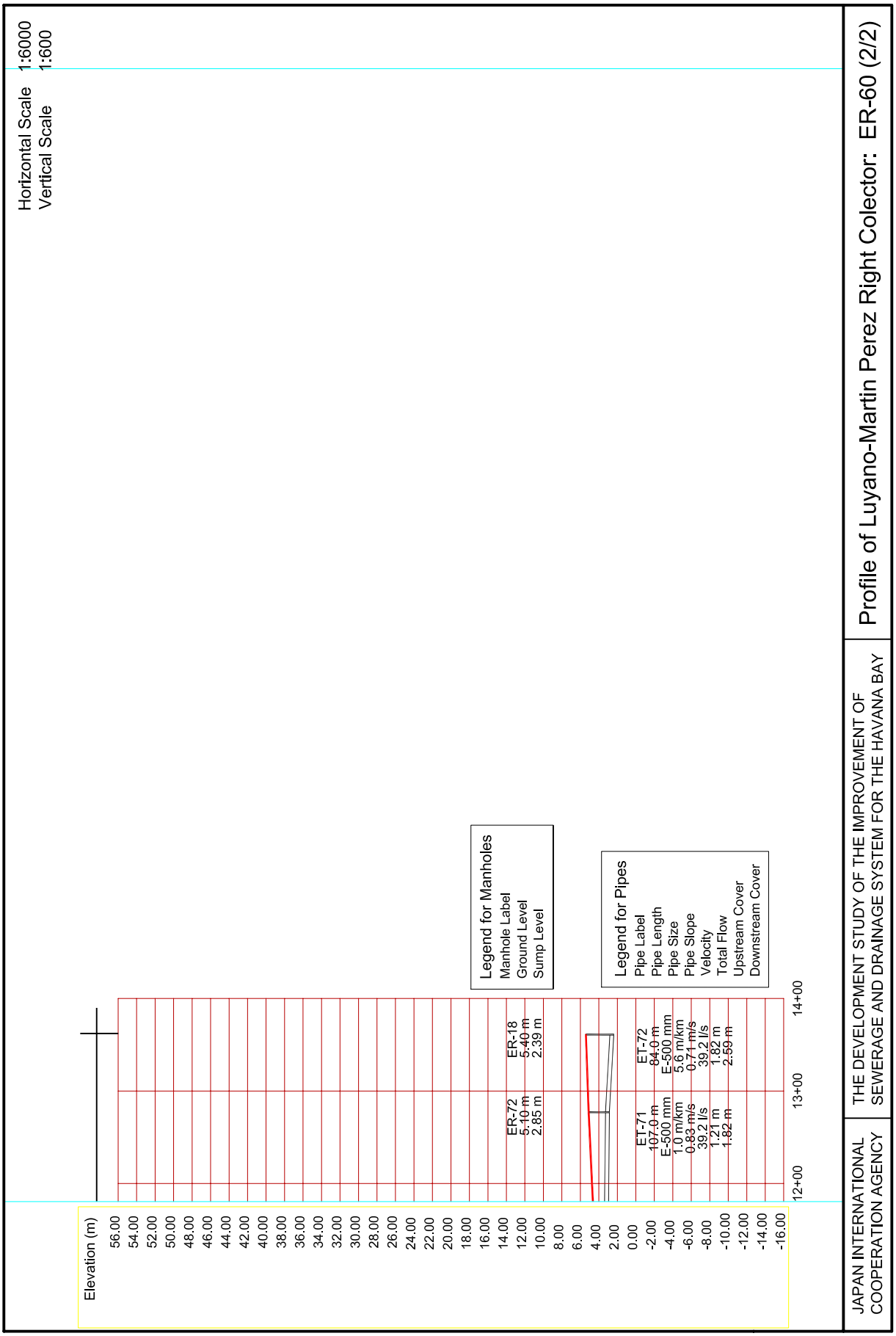
Profile of Luyano-Martin Perez Right Colector: ER-40 (3/3)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

Profile of Luyano-Martin Perez Right Colector: ER-60 (1/2)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Vertical Scale 1:600
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52.00
50.00
48.00
46.00
44.00
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36.00
34.00
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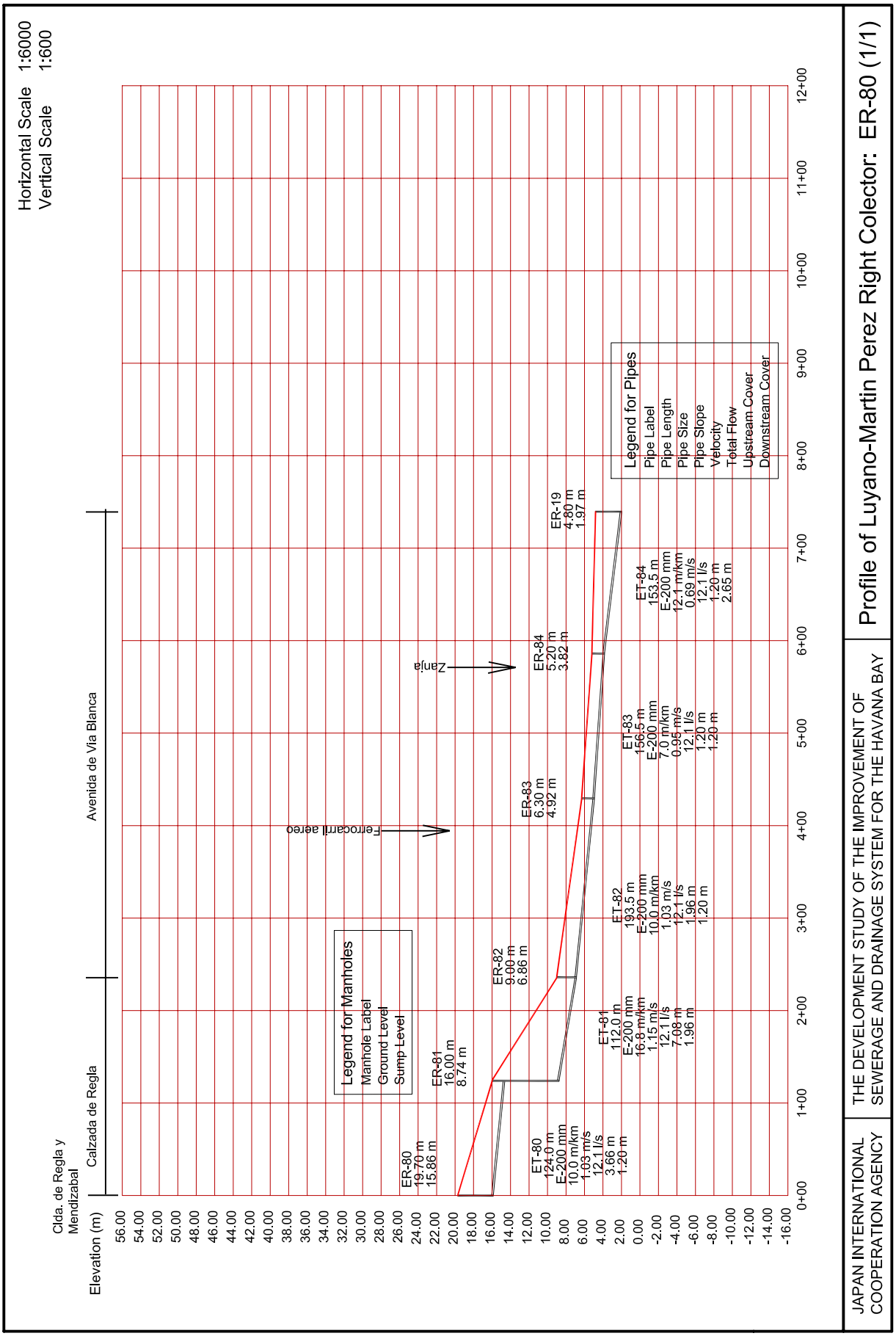
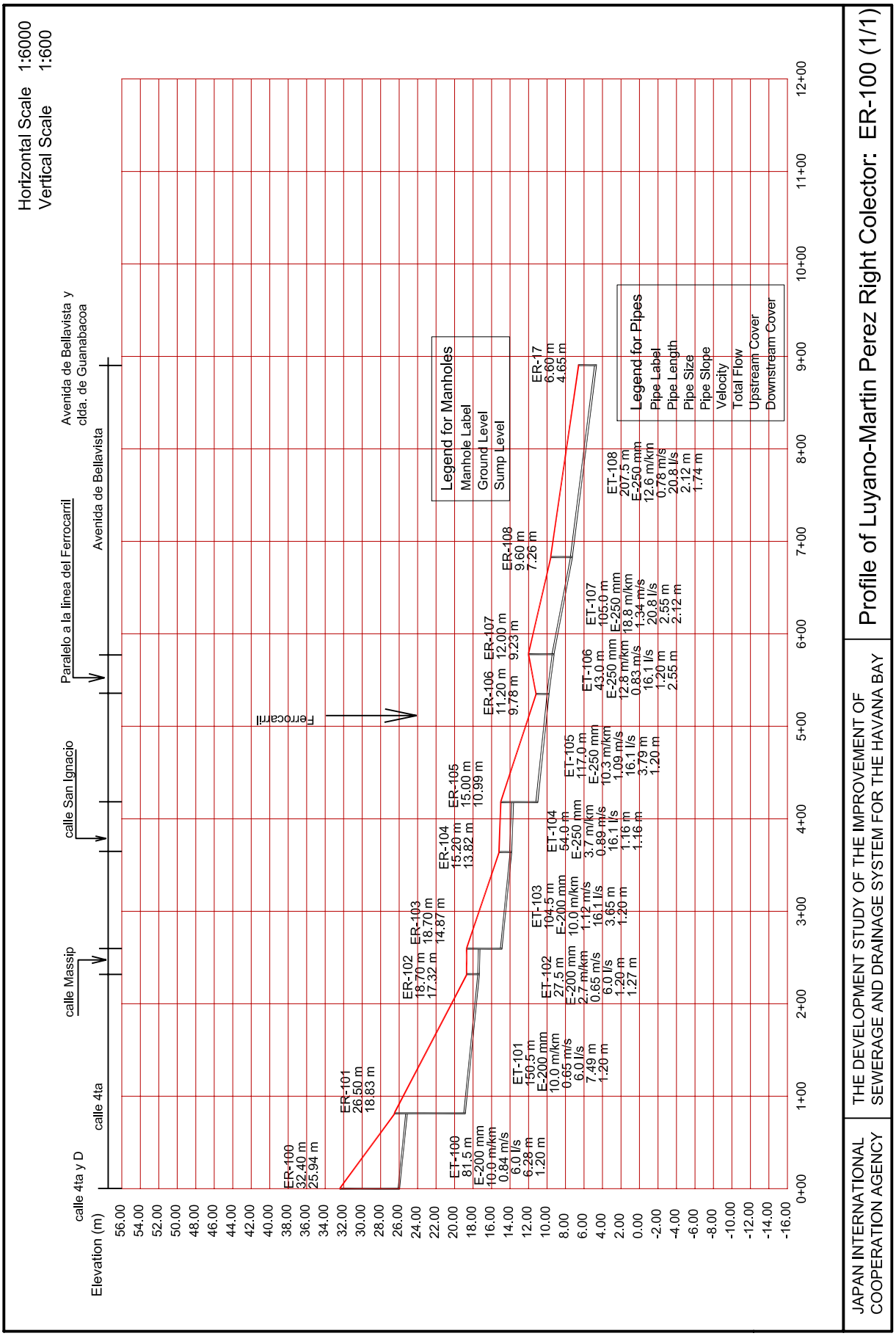
30.00
28.00
26.00
24.00
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.00
-16.00
12+00
13+00
14+00
ER-72
5.10 m
2.85 m
ER-18
5.40 m
2.39 m
ET-71
107.0 m
E-500 mm
1.0 m/km
0.83 m/s
39.2 l/s
1.21 m
1.82 m
ET-72
84.0 m
E-500 mm
5.6 m/km
0.71 m/s
39.2 l/s
1.82 m
2.59 m
Legend for Manholes
Manhole Label
Ground Level
Sump Level
Legend for Pipes
Pipe Label
Pipe Length
Pipe Size
Pipe Slope
Velocity
Total Flow
Upstream Cover
Downstream Cover
JAPAN INTERNATIONAL COOPERATION AGENCY
THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY
Profile of Luyano-Martin Perez Right Colector: ER-60 (2/2)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

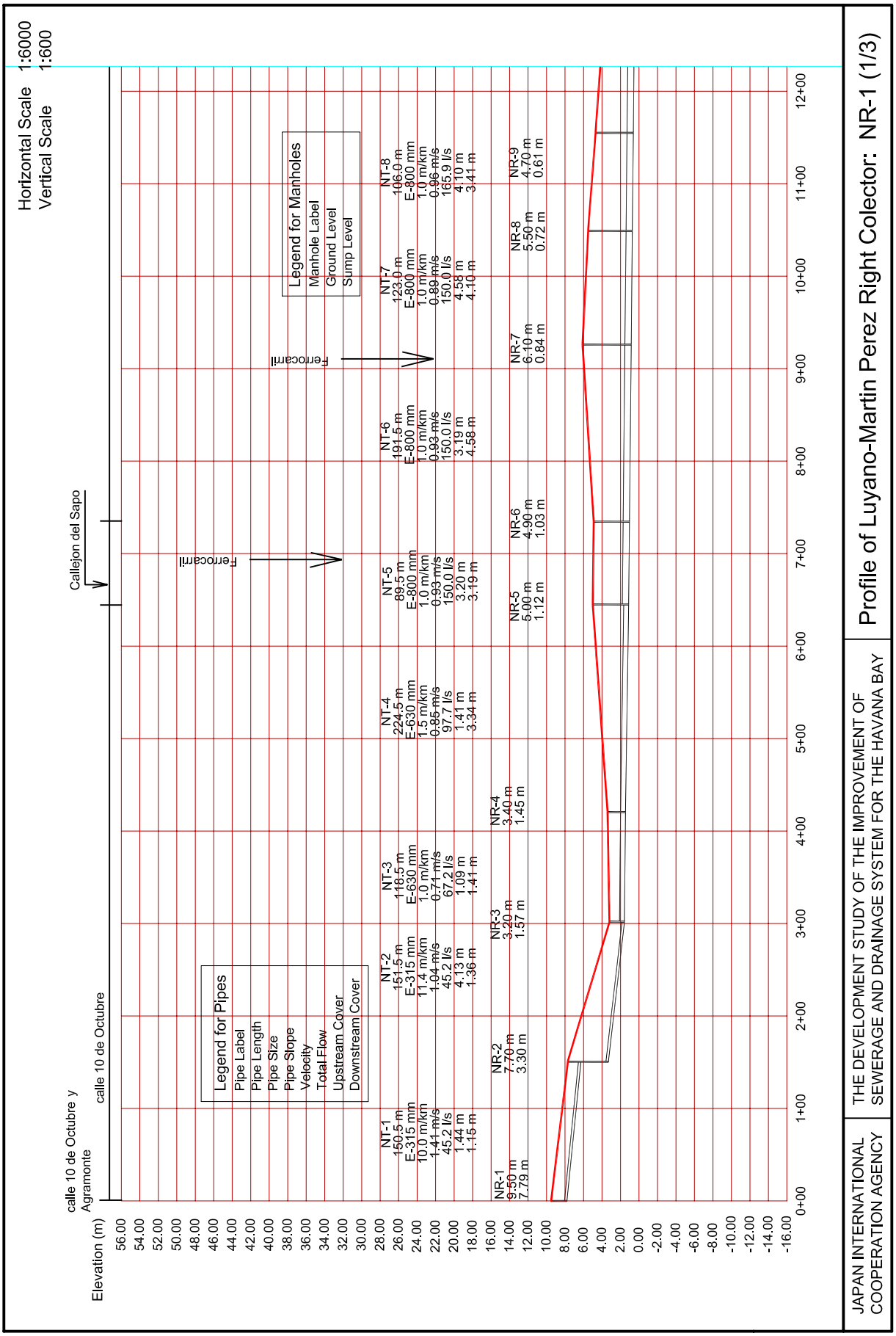
Profile of Luyano-Martin Perez Right Colector: ER-80 (1/1)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

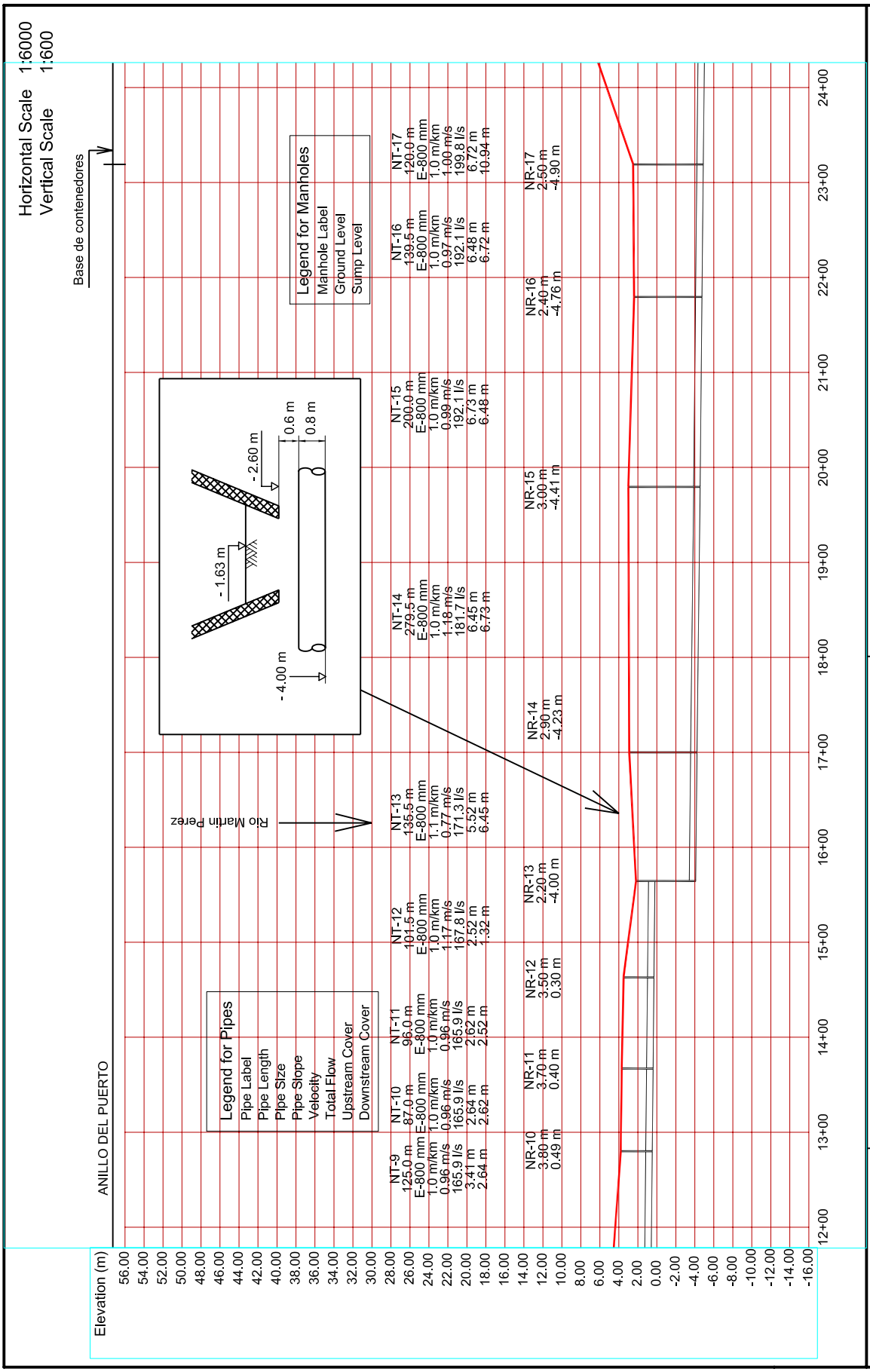
Profile of Luyano-Martin Perez Right Colector: ER-100 (1/1)

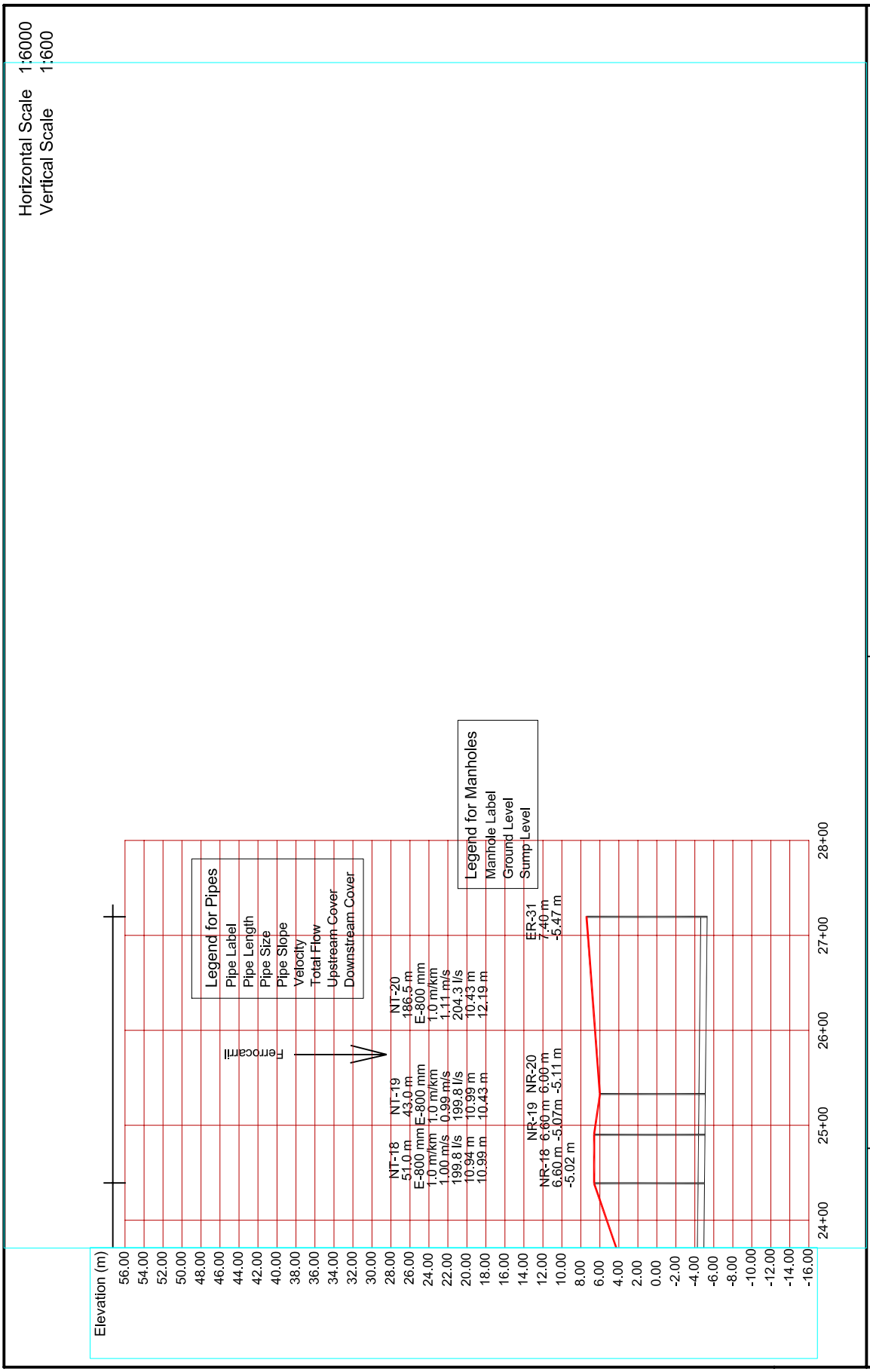


JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

Profile of Luyano-Martin Perez Right Colector: NR-1 (1/3)

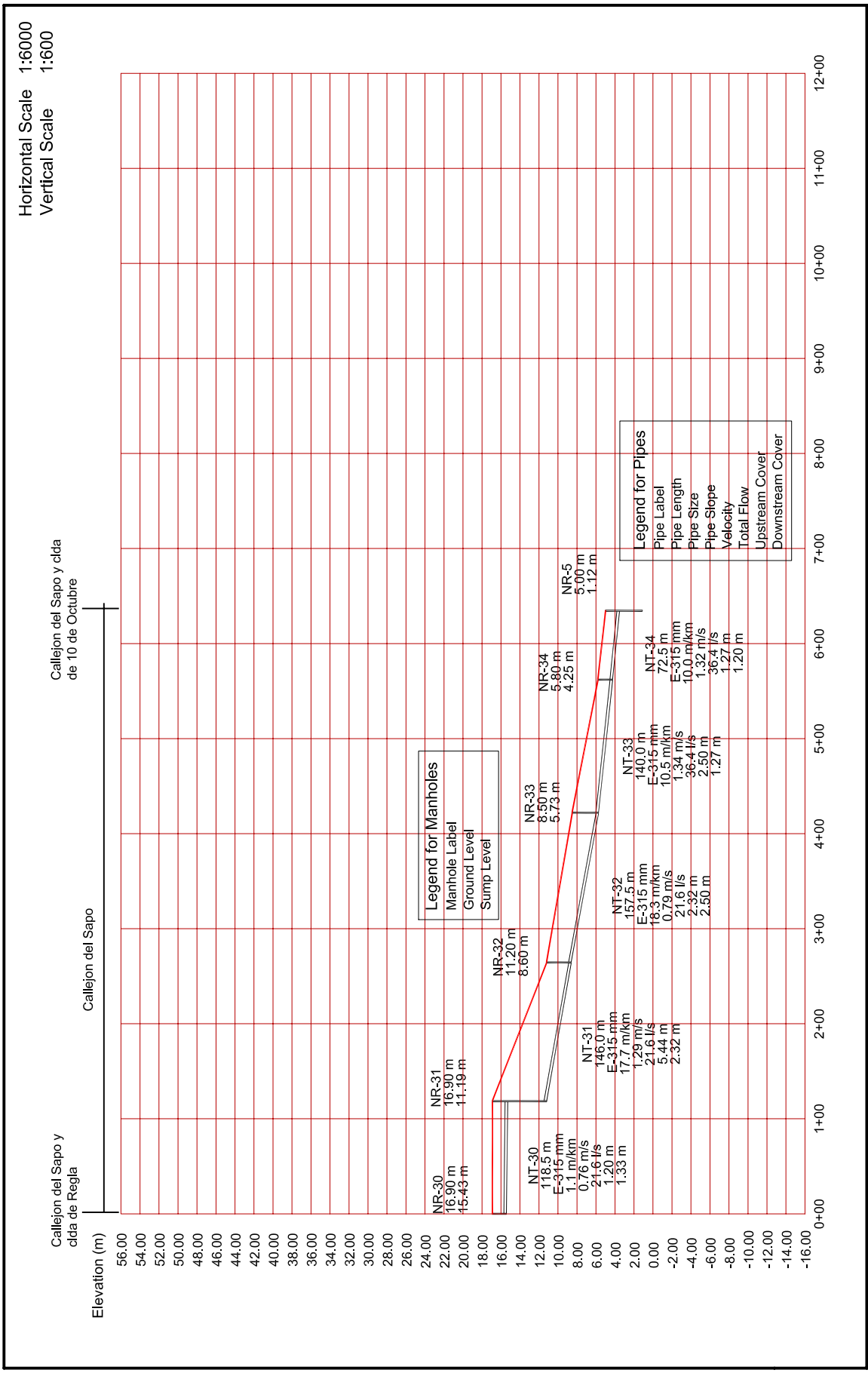

Horizontal Scale 1:6000
Vertical Scale 1:600
Base de contenedores
ANILLO DEL PUERTO
Legend for Pipes
Pipe Label
Pipe Length
Pipe Size
Pipe Slope
Velocity
Total Flow
Upstream Cover
Downstream Cover
Legend for Manholes
Manhole Label
Ground Level
Sump Level
Rio Martin Perez
- 1.63 m
- 2.60 m
0.6 m
0.8 m
- 4.00 m
NT-9 125.0 m E-800 mm 1.0 m/km 0.96 m/s 165.9 l/s 3.41 m 2.64 m
NT-10 87.0 m E-800 mm 1.0 m/km 0.96 m/s 165.9 l/s 2.64 m 2.62 m
NT-11 96.0 m E-800 mm 1.0 m/km 0.96 m/s 165.9 l/s 2.62 m 2.52 m
NT-12 101.5 m E-800 mm 1.0 m/km 1.17 m/s 167.8 l/s 2.52 m 1.32 m
NT-13 135.5 m E-800 mm 1.1 m/km 0.77 m/s 171.3 l/s 5.52 m 6.45 m
NT-14 279.5 m E-800 mm 1.0 m/km 1.18 m/s 181.7 l/s 6.45 m 6.73 m
NT-15 200.0 m E-800 mm 1.0 m/km 0.99 m/s 192.1 l/s 6.73 m 6.48 m
NT-16 139.5 m E-800 mm 1.0 m/km 0.97 m/s 192.1 l/s 6.48 m 6.72 m
NT-17 120.0 m E-800 mm 1.0 m/km 1.00 m/s 199.8 l/s 6.72 m 10.94 m
NR-10 3.80 m 0.49 m
NR-11 3.70 m 0.40 m
NR-12 3.50 m 0.30 m
NR-13 2.20 m -4.00 m
NR-14 2.90 m -4.23 m
NR-15 3.00 m -4.41 m
NR-16 2.40 m -4.76 m
NR-17 2.50 m -4.90 m
Elevation (m)
56.00 54.00 52.00 50.00 48.00 46.00 44.00 42.00 40.00 38.00 36.00 34.00 32.00 30.00 28.00 26.00 24.00 22.00 20.00 18.00 16.00 14.00 12.00 10.00 8.00 6.00 4.00 2.00 0.00 -2.00 -4.00 -6.00 -8.00 -10.00 -12.00 -14.00 -16.00
12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00
JAPAN INTERNATIONAL COOPERATION AGENCY
THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY
Profile of Luyano-Martin Perez Right Colector: NR-1 (2/3)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

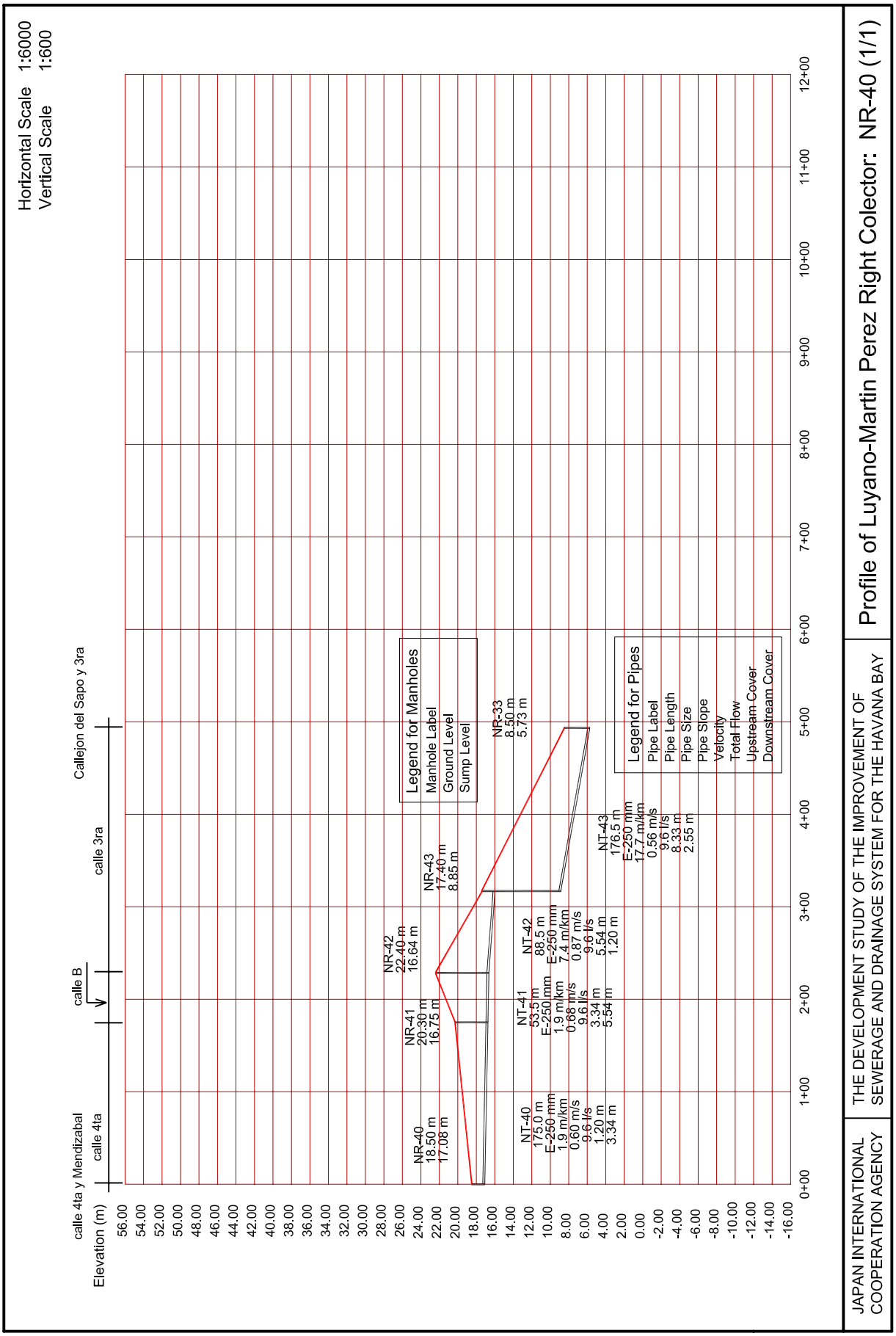
Profile of Luyano-Martin Perez Right Colector: NR-1 (3/3)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

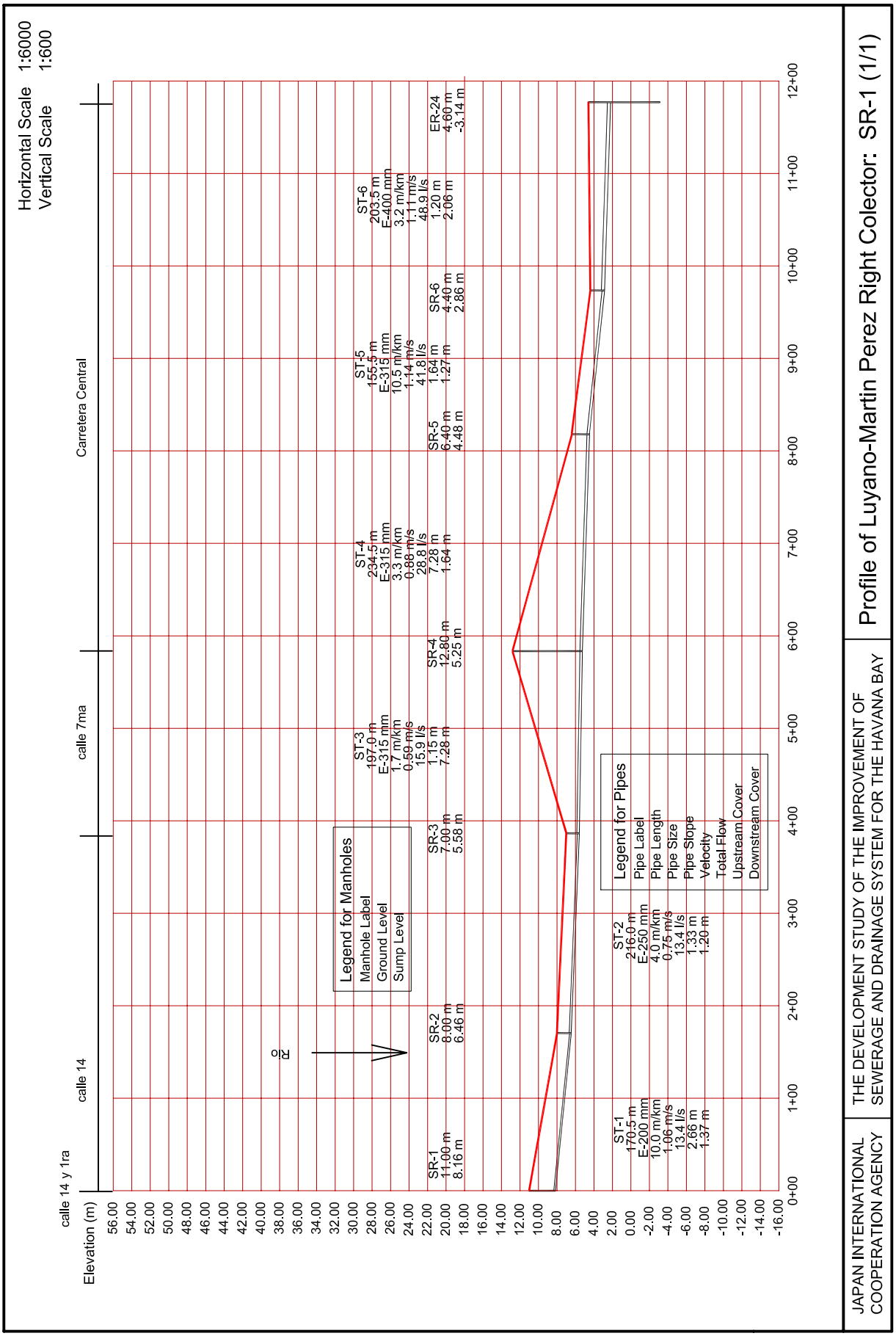
Profile of Luyano-Martin Perez Right Colector: NR-30 (1/1)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

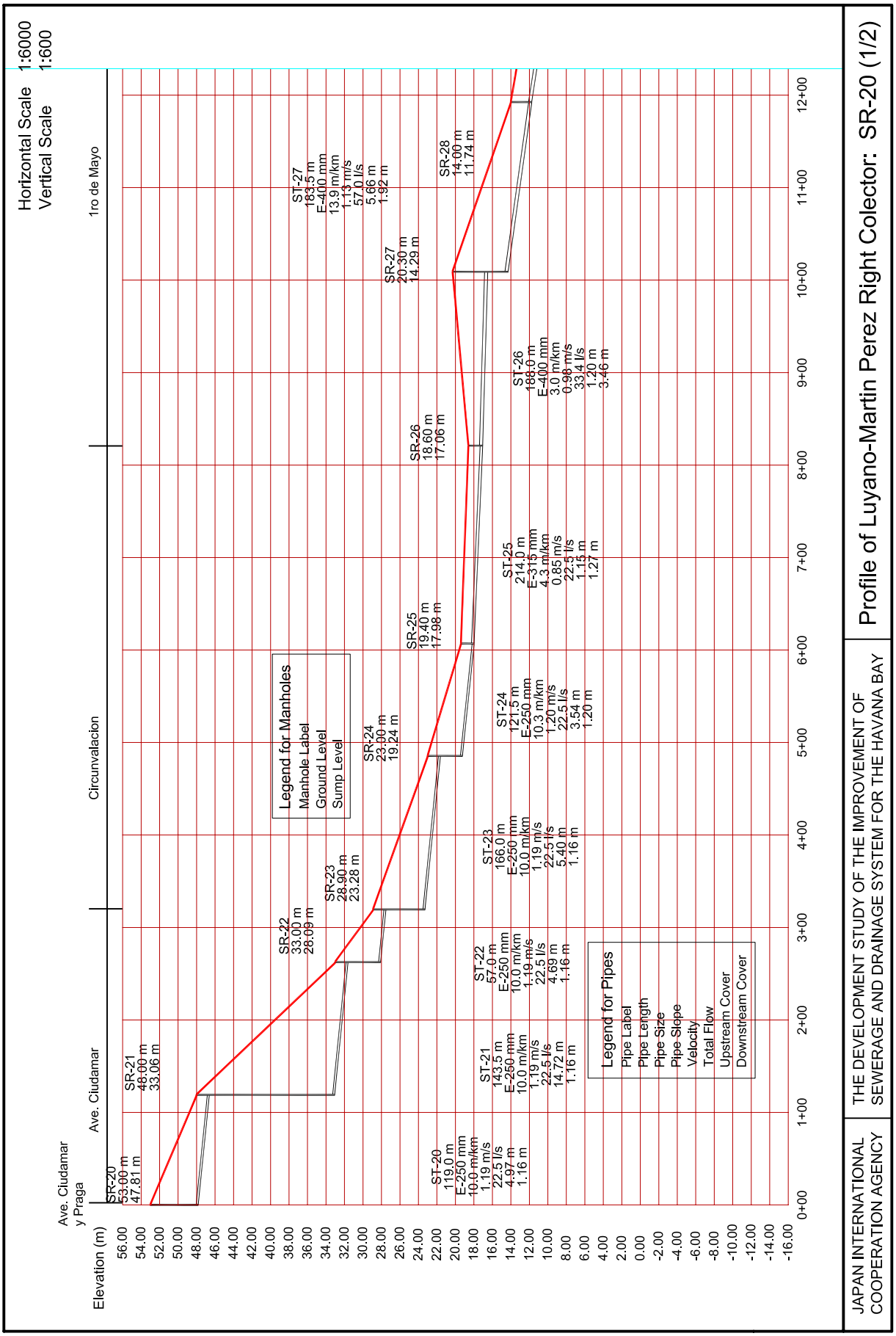
Profile of Luyano-Martin Perez Right Colector: NR-40 (1/1)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

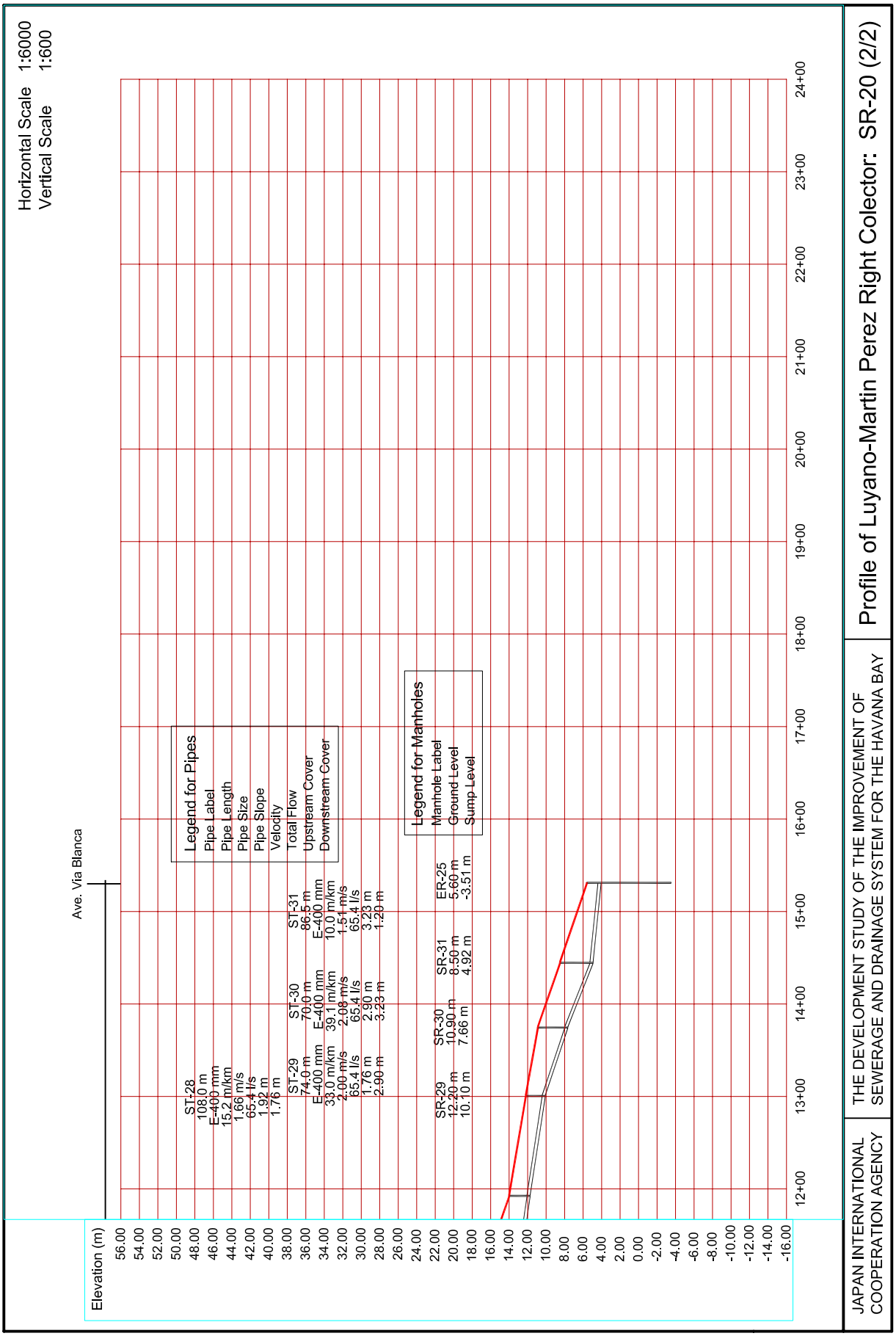
Profile of Luyano-Martin Perez Right Colector: SR-1 (1/1)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

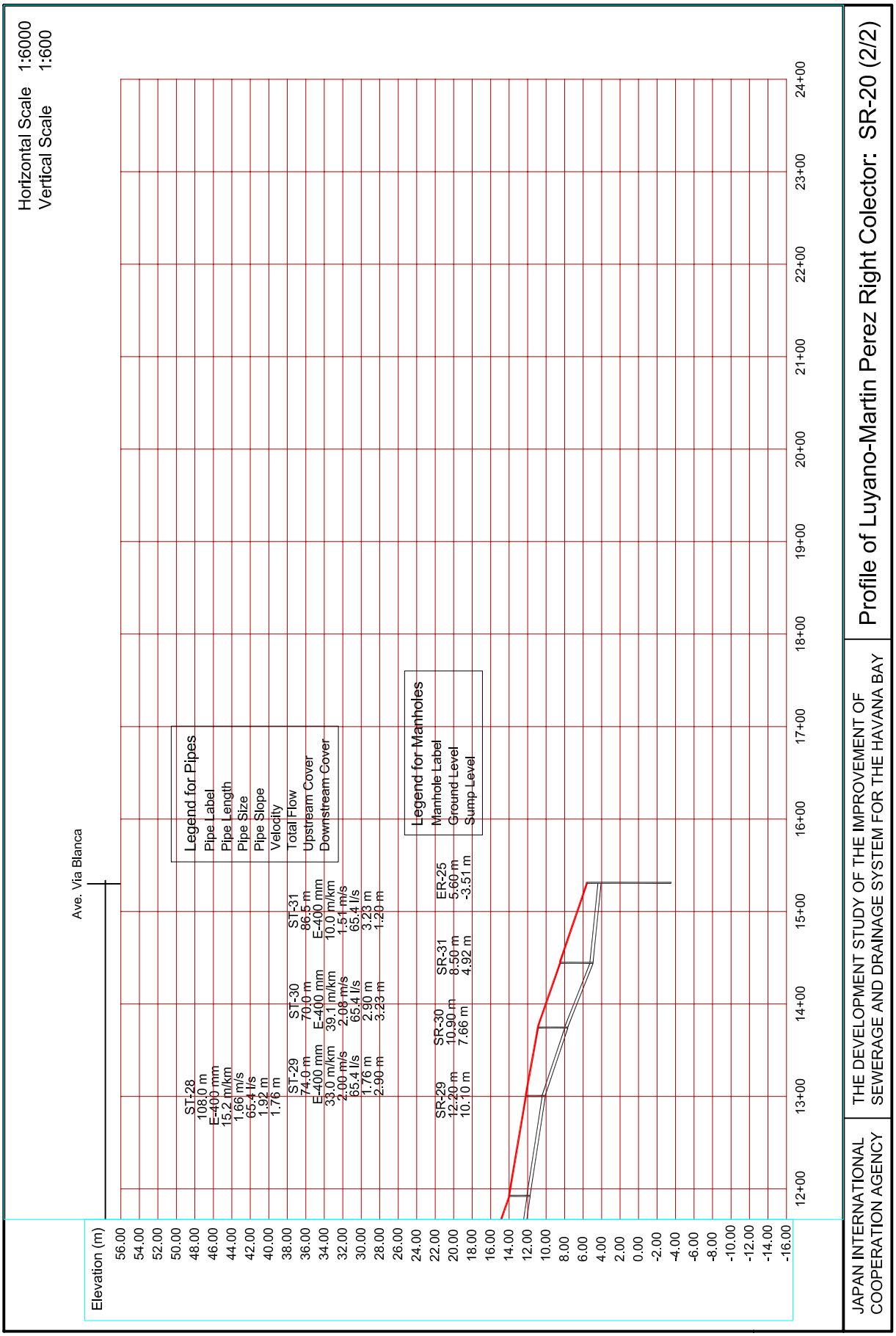
Profile of Luyano-Martin Perez Right Colector: SR-20 (1/2)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

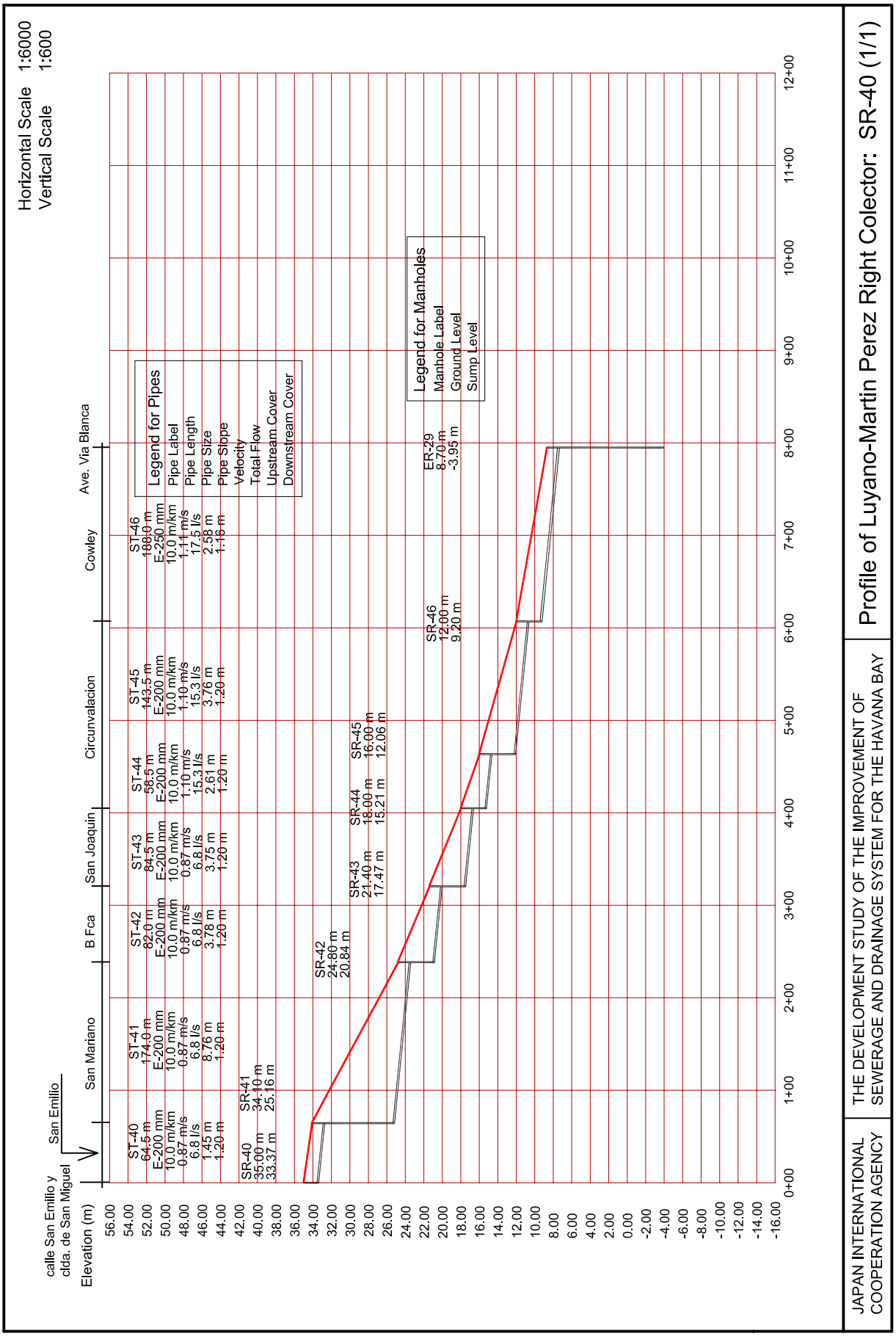
Profile of Luyano-Martin Perez Right Colector: SR-20 (2/2)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

Profile of Luyano-Martin Perez Right Colector: SR-20 (2/2)



JAPAN INTERNATIONAL COOPERATION AGENCY

THE DEVELOPMENT STUDY OF THE IMPROVEMENT OF SEWERAGE AND DRAINAGE SYSTEM FOR THE HAVANA BAY

Profile of Luyano-Martin Perez Right Colector: SR-40 (1/1)