

ELEMENTS OF CURVES

PI NO.	STATION	COORDINATES		I	R	T	Lc	Es	V(kph)
		NORTHING	EASTING						
10	3+654.80	936018.609	467937.307	33° 25' 28"	250.00	75.06	145.84	11.03	60
11	3+973.48	936187.533	468212.576	17° 02' 41"	500.00	74.92	148.74	5.58	60

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

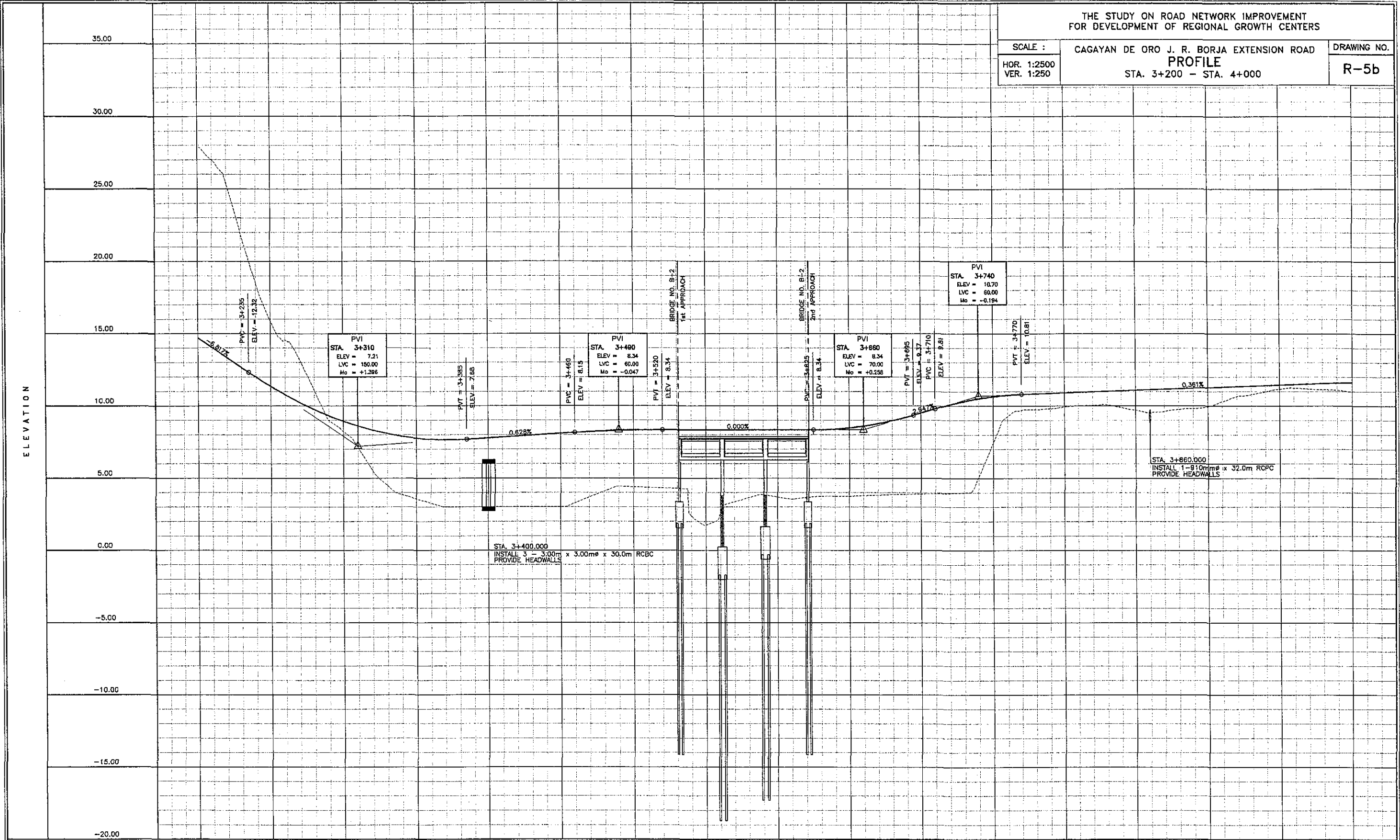
SCALE :	CAGAYAN DE ORO J. R. BORJA EXTENSION ROAD	DRAWING NO.
HOR. 1:2500 VER. 1:250	PLAN STA. 3+200 - STA. 4+000	R-5a



THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE : CAGAYAN DE ORO J. R. BORJA EXTENSION ROAD
HOR. 1:2500 VER. 1:250
PROFILE STA. 3+200 - STA. 4+000
DRAWING NO. R-5b

ELEVATION



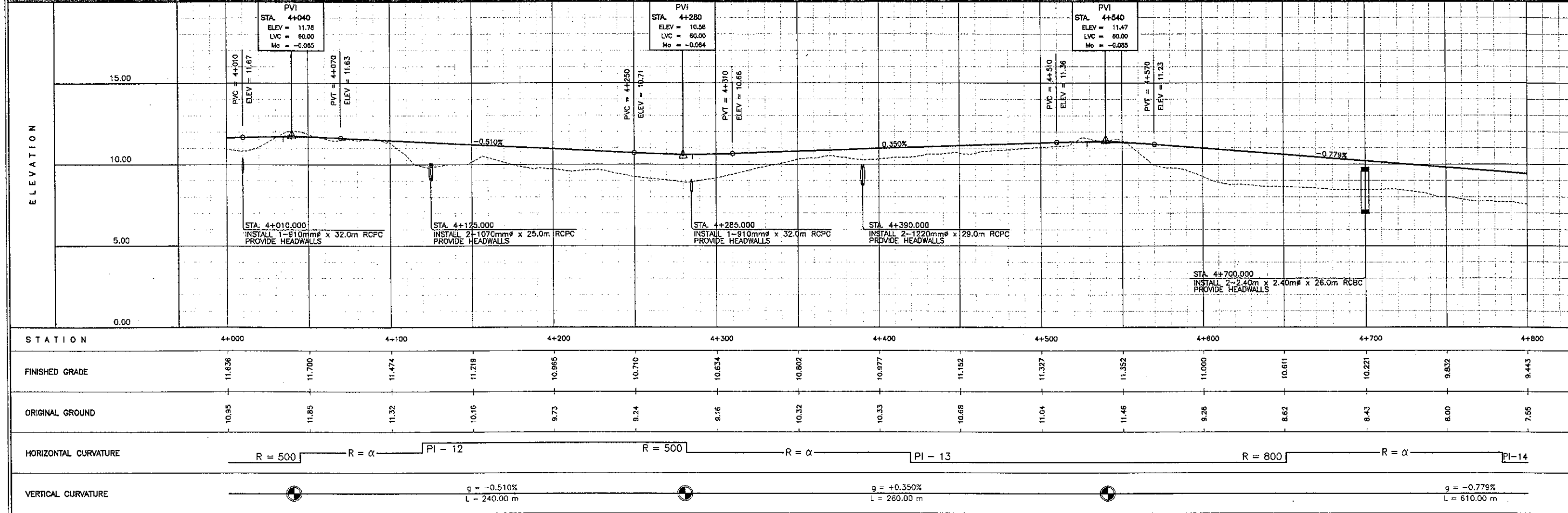
STATION	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900	4+000								
FINISHED GRADE	14.708	11.356	8.932	7.741	7.725	8.011	8.221	8.240	8.240	8.377	9.469	10.643	10.914	11.094	11.275	11.455	11.636
ORIGINAL GROUND	27.92	15.87	8.20	3.56	3.00	3.00	4.40	1.75	3.69	3.74	3.91	7.43	9.93	9.71	9.95	11.15	10.95
HORIZONTAL CURVATURE	R = ∞		R = ∞			PI - 10		R = 250		R = ∞		PI - 11		R = ∞		R = ∞	
VERTICAL CURVATURE	g = -6.817% L = 230.00 m		g = +0.628% L = 180.00 m			g = 0.000% L = 170.00 m		g = +2.947% L = 80.00 m		g = +0.361% L = 300.00 m							

ELEMENTS OF CURVES

PI NO.	STATION	COORDINATES		I	R	T	Lc	Es	V(kph)
		NORTHING	EASTING						
12	4+203.88	936361.138	468365.733	18° 37' 36"	500.00	82.00	162.55	6.68	60
13	4+538.99	936529.180	468657.329	16° 36' 45"	800.00	116.80	231.95	8.48	60

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :	CAGAYAN DE ORO J. R. BORJA EXTENSION ROAD PLAN AND PROFILE STA. 4+000 - STA. 4+800	DRAWING NO. R-6
HOR. 1:2500 VER. 1:250		



ELEMENTS OF CURVES

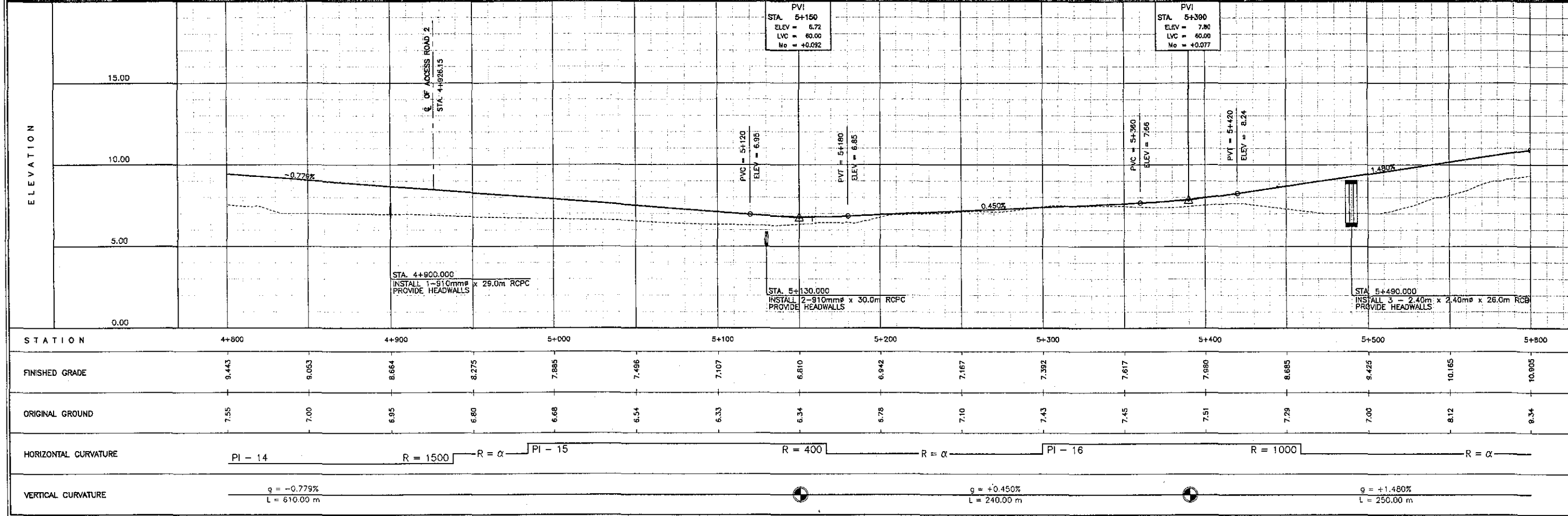
PI NO.	STATION	COORDINATES		I	R	T	Lc	Es	V(kph)
		NORTHING	EASTING						
14	4+863.90	936766.310	468881.834	05° 52' 12"	1500.00	76.90	153.67	1.97	60
15	5+079.77	936937.533	469013.520	26° 10' 32"	400.00	92.99	182.74	10.67	60
16	5+382.39	937072.867	469287.819	09° 06' 41"	1000.00	79.68	159.03	3.17	60

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
HOR. 1:2500
VER. 1:250

CAGAYAN DE ORO J. R. BORJA EXTENSION ROAD
PLAN AND PROFILE
STA. 4+800 - STA. 5+600

DRAWING NO.
R-7



ELEMENTS OF CURVES

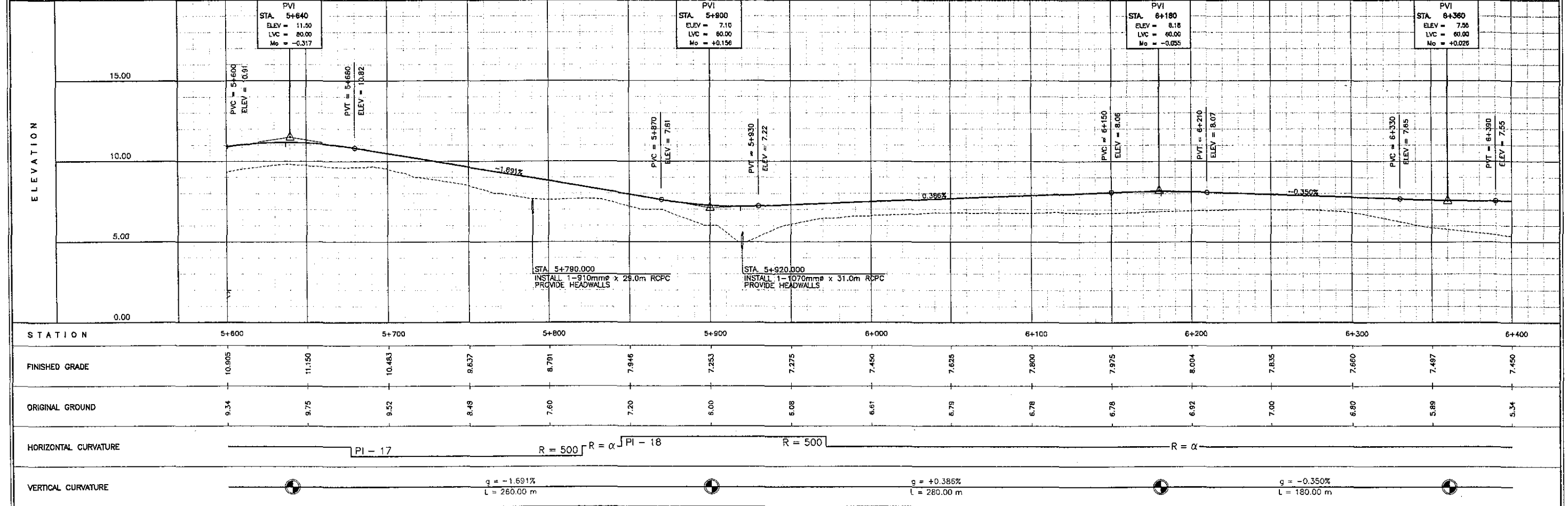
PI NO.	STATION	COORDINATES		I	R	T	Lc	Es	V(kph)
		NORTHING	EASTING						
17	5+753.57	937182.414	469642.818	32° 56' 21"	250.00	73.91	143.72	10.70	60
18	5+912.63	937307.557	469747.496	29° 07' 12"	250.00	64.93	127.06	8.30	60

THE STUDY ON ROAD NETWORK IMPROVEMENT
FOR DEVELOPMENT OF REGIONAL GROWTH CENTERS

SCALE :
HOR. 1:2500
VER. 1:250

CAGAYAN DE ORO J. R. BORJA EXTENSION ROAD
PLAN AND PROFILE
STA. 5+600 - STA. 6+400

DRAWING NO.
R-8



PVI
STA. 5+640
ELEV = 11.50
LVC = 80.00
Mo = -0.317

PVI
STA. 5+900
ELEV = 7.10
LVC = 80.00
Mo = +0.156

PVI
STA. 6+180
ELEV = 8.18
LVC = 80.00
Mo = -0.055

PVI
STA. 6+360
ELEV = 7.56
LVC = 80.00
Mo = +0.026

STA. 5+780.000
INSTALL 1-910mm x 25.0m RCPC
PROVIDE HEADWALLS

STA. 5+920.000
INSTALL 1-1070mm x 31.0m RCPC
PROVIDE HEADWALLS