

**REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)**

**PREPARATORY SURVEY  
FOR EXPRESSWAY PROJECTS  
IN  
MEGA MANILA REGION**

**NAIA EXPRESSWAY PROJECT (Phase II)**

**FINAL REPORT  
APPENDIX-II DRAWINGS**

**NOVEMBER 2012**

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

**CTI ENGINEERING INTERNATIONAL CO., LTD  
MITSUBISHI RESEARCH INSTITUTE, INC.  
ORIENTAL CONSULTANTS CO., LTD  
METROPOLITAN EXPRESSWAY CO., LTD**

EI
CR(3)
12-144(3)

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PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
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			<b>SHEET NO.</b>
			<b>1 of 1</b>

# ESTIMATED OF QUANTITIES

NAIA EXPRESSWAY PHASE II

## ESTIMATES OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	Quantity			
			At grade	Ramp	Main Viaduct	Total
1.0	GENERAL REQUIREMENTS					
A	FACILITIES FOR THE ENGINEER	I.s.			1.00	1.00
B	OTHER GENERAL REQUIREMENTS					
SPL B.2.1	Construction Health and Safety	I.s.			1.00	1.00
SPL B.2.2	Mobilization / Demobilization (1.0% of Civil Works)	I.s.			1.00	1.00
SPL B.3.1	Environmental Monitoring Action Plan	I.s.			1.00	1.00
SPL	Traffic Management During Construction	I.s.			1.00	1.00
2.0	EXPRESSWAY, RAMPS AND VIADUCT					
C	EARTHWORKS					
103(1)	Structure Excavation, Common Material	cu.m.		2700.00	29192.24	31892.24
103(3)	Foundation Back fill	cu.m.		1987.00		1987.00
104(1)e	Embankment from Borrow	cu.m.		727.48		727.48
D	SUBBASE AND BASE COURSE					
202.0000	Crushed Aggregate Base Course	cu.m.		958.50		958.50
E	SURFACE COURSES					
302(2)	Bituminous Tack Coat, Emulsified Asphalt, SS-1 (0.45 L/m <sup>2</sup> )	tonne		9.00	44.22	53.22
310 (2)	Bituminous Concrete Surface Course, Hot Laid	tonne		3009.85	11787.20	14797.05
311.0000	Portland Cement Concrete Pavement t=300 mm	sq.m.		6390.00		6390.00
F	VIADUCT CONSTRUCTION					
400(17)c	Concrete Piles cast in Drilled Holes (1500mm) Including Re-Bar	I.m.		420.00	8310.00	8730.00
400(17)g	Concrete Piles cast in Drilled Holes (2200mm) Including Re-Bar	I.m.		870.00	900.00	1770.00
400(17)h	Concrete Piles cast in Drilled Holes (2500mm) Including Re-Bar	I.m.			510.00	510.00
401(1)	Railing, ( Concrete Bridge Railing)	I.m.		6559.00	9654.00	16213.00
401 (1)	DOUBLE METAL BEAM GUARDRAIL (w/Past)	I.m.		0.00	4645.00	4645.00
404 (2)	Reinforcing Steel, Grade 60 (Bridge)	kg		2576265.00	13345148.50	15921413.50
405(1)	Lean Concrete, 17Mpa	cu.m.		29.00	544.62	573.62
405(1)c	Structural Concrete Class A 28Mpa for Pile Cap	cu.m.		675.00	13278.30	13953.30
405(1)d	Structural Concrete Class AA 28Mpa for Column	cu.m.		1179.00	5701.02	6880.02
405(1)e	Structural Concrete Class AA 28Mpa for Coping	cu.m.		1969.00	8173.00	10142.00
405(1)f	Structural Concrete Class AA 28Mpa for Diaphragm	cu.m.		171.00	1633.24	1804.24
405(1)g	Structural Concrete Class AA 28Mpa for Deck Slab	cu.m.		5785.00	24598.81	30363.81
405(1)h	Structural Concrete Class P 35Mpa for Coping	cu.m.			6023.00	6023.00
405(1)i	Structural Concrete Class P 34Mpa for Hollow slab	cu.m.			3376.38	3376.38
405(1)j	Structural Concrete Class AA 21Mpa for Parapet, Curb, Median	cu.m.			3620.26	3620.26
405(1)k	Non Shrink Grout 41Mpa including wiremesh for Girder Riser	cu.m.		18.00	39.23	57.23
406(1)a	PSC Member (AASHTO Girder Type IV) L = 11.5m	each			13.00	13.00
406(1)b	PSC Member (AASHTO Girder Type IV) L = 22.4m	each			120.00	120.00
406(1)c	PSC Member (AASHTO Girder Type IV) L = 24.7m	each			8.00	8.00
406(1)d	PSC Member (AASHTO Girder Type IV) L = 28.2m	each			20.00	20.00

PAY ITEM NO.	DESCRIPTION	UNIT	Quantity			
			At grade	Ramp	Main Viaduct	Total
406(1)e	PSC Member (AASHTO Girder Type V) L = 27.5m	each			162.00	162.00
406(1)f	PSC Member (AASHTO Girder Type V) L = 28.5 m	each		12.00	47.00	59.00
406(1)g	PSC Member (AASHTO Girder Type V) L = 29 m	each			122.00	122.00
406(1)h	PSC Member (AASHTO Girder Type V) L = 31.5m	each			80.00	80.00
406(1)i	PSC Member (AASHTO Girder Type V) L = 32.25m	each		12.00		12.00
406(1)j	PSC Member (AASHTO Girder Type V) L = 32.5m	each		45.00	68.00	113.00
406(1)k	PSC Member (AASHTO Girder Type V) L = 33.5m	each		24.00	129.00	153.00
406(1)l	PSC Member (AASHTO Girder Type V) L = 35 m	each				0.00
406(3)	Prestressing Steel	kg			530199.00	530199.00
408.0000	Structural Steel	kg		5189000.00	17910360.00	23099360.00
412(1)b	Elastomeric Bearing Pad ( 608 x 308 x 60mm)	pcs		186.00	1538.00	1724.00
SPL 414(c)	Steel Box Girder Shoe Type F	each		114.00	122.00	236.00
SPL 414(d)	Ruber Filler (400 x 150 x 50mm)	each		596.00	3552.00	4148.00
SPL 414(e)	Hard Rubber Filler & Restrainer Bolts Dia 30mm	sets		238.00	835.00	1073.00
SPL 416(1)a	Pile Dynamic Analysis	each		9.00	65.00	74.00
SPL 416(1)b	Pile Integrity Test	each		86.00	648.00	734.00
SPL 417(1)b	Cast Iron Deck Drain	each		700.00	1612.00	2312.00
SPL 417(2)a	Collector Pipe ( 150mm dia PVC )	I.m.		595.00	9654.00	10249.00
SPL 417(2)b	Collector Pipe ( 200mm dia PVC )	I.m.		4081.00	4377.00	8458.00
SPL 418(a)	Expansion Joint, Type A ( M80 Multiplex )	I.m.		167.00	260.00	427.00
SPL 418(b)	Expansion Joint, ( SR 2.5A Waboflex )	I.m.		71.00	441.87	512.87
SPL 414	Metal Decking (8 mm thk)	sq.m.		10959.00	64534.00	75493.00
SPL 420	Rotating Material ( Sasrabahu )	each			52.00	52.00
G	DRAINAGE AND SLOPE PROTECTION STRUCTURES					
SPL 515	Mechanically Stabilized Earth (MSE) Wall	sq.m.		6926.61		6926.61
H	MISCELLANEOUS STRUCTURES					
605(1)a	Warning Signs	each			15.00	15.00
605(2)	Regulatory Signs	each			12.00	12.00
605(3)a	Informatory Signs (Medium)	each			26.00	26.00
605(3)b	Informatory Signs (Large)	each			4.00	4.00
612(1)	Reflectorized Thermoplastic Pavement Markings	sq.m.			13174.02	13174.02
612(2)	Reflectorized Studs 100x100x20 DF	each			275.00	275.00
SPL 820	Concrete Barrier (New Jersey Type )	lm				0.00
SPL	Installation of Fiber Optic	lm			4619.34	4619.34
SPL	Noise Barrier	lm			800.00	800.00
SPL 1110	Toll Road Lighting	each			331.00	331.00
600(1)	Concrete Curb	lm			29087.30	29087.30
SPL	Reinstallation of Longitudinal Expansion Joint (Type B Joint)	lm			690.00	690.00

PAY ITEM NO.	DESCRIPTION	UNIT	Quantity			
			At grade	Ramp	Main Viaduct	Total
3.D	RECONSTRUCTION OF AT-GRADE ROAD					
C	EARTHWORKS					
101(1)a	Removal of Structure and Obstruction (Existing Ramp)	cu.m		1319.07		1319.07
101(1)b	Removal of Structure and Obstruction (Masonry)	sq.m	300.00			300.00
101(1)c	Removal of Structure and Obstruction (Median)	sq.m	4934.30			4934.30
101(1)d	Removal of Structure and Obstruction (Concrete Pavement)	sq.m	49052.00	1783.60		50835.60
101(1)e	Removal of Structure and Obstruction (Pedestrian Bridge)	Lot	2.00			2.00
101(2)	Removal of Facilities (Tel, Electric, Billboards, Traffic sign etc.)	ea	2.00			2.00
105(1)	Subgrade Preparation	I.s.	50416.00			50416.00
D	SUBBASE AND BASE COURSE					
302(2)	Bituminous Tack Coat, Emulsified Asphalt, SS-1 (0.45 L/m <sup>2</sup> )	tonne		33.84		33.84
310 (2)	Bituminous Concrete Surface Course, Hot Laid (t=5cm)	tonne		8649.15		8649.15
200.0000	Aggregate Base Course	cu.m.		4754.00		4754.00
E	SURFACE COURSE					
311(1)c	Portland Cement Concrete Pavement (250mm thk)	sq.m.	23518.00			23518.00
G	DRAINAGE AND SLOPE PROTECTION STRUCTURES					
500(1)a	RCPC, 610 mm dia.	I.m.	10649.00			10649.00
502(1)	Manholes	each	0.00			0.00
502(3)	Catch Basin Manhole Drop Inlet	each	761.00			761.00
H	MISCELLANEOUS STRUCTURES					
605(1)a	Warning Signs	each		6.00		6.00
605(2)	Regulatory Signs	each		6.00		6.00
605(3)a	Informatory Signs (Medium)	each		16.00		16.00
605(3)b	Informatory Signs (Large)	each		2.00		2.00
612(1)	Reflectorized Thermoplastic Pavement Markings	sq.m.		5991.00		5991.00
SPL 620	Concrete Barrier (New Jersey Type )	I.m.		0.00		0.00
600(1)	Concrete Curb	lm		11360.00		11360.00
600(2)	Concrete Curb and Gutter	lm		7305.00		7305.00
601	Sidewalk	sq.m.		9876.00		9876.00
4.0	TOLL PLAZA					
SPL 1041(3)a	Toll Island, Single	each			20.00	20.00
SPL 1041(4)	Crash Attenuators, Single	set			20.00	20.00
SPL	Toll Booth (Type 1 )	each			16.00	16.00
SPL	Toll Booth ( Maxi Type 2 )	each			5.00	5.00
SPL	Toll Plaza	sq.m.			1410.06	1410.06
SPL	Toll Collection System	I.s.			1.00	1.00
SPL 1110	Toll Plaza Lighting System	each			24.00	24.00

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>		<b>ESTIMATES OF QUANTITIES</b>	A-01
			SHEET NO.
			1 OF 1



# **B. GENERAL PLAN**

NAIA EXPRESSWAY PHASE II





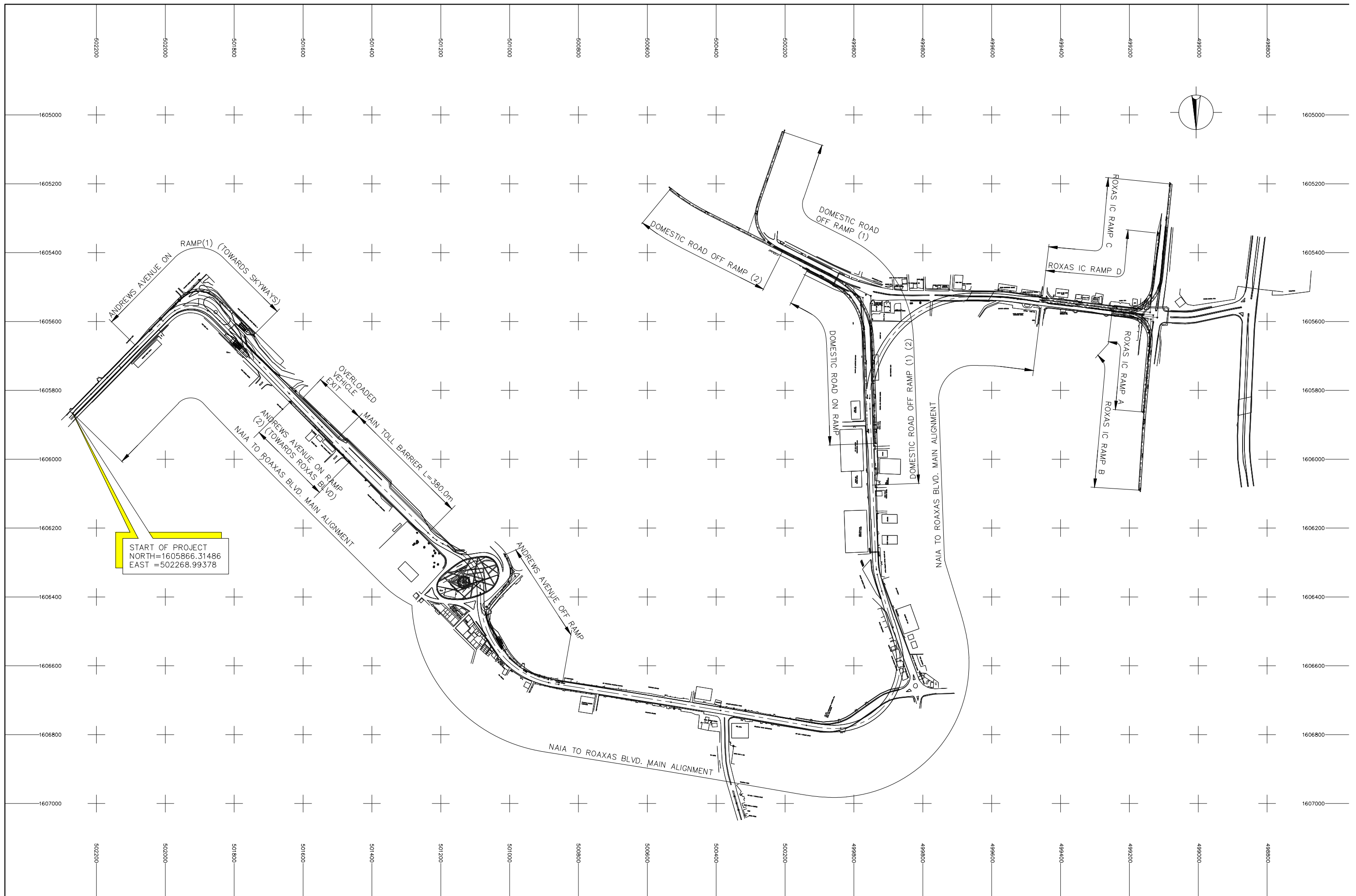
LEGEND:  
 PHASE I   
 PHASE II

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	1:5000	GENERAL PLAN NAIA EXPRESSWAY PHASE I AND PHASE II	B-1 SHEET NO. <u>1</u> OF <u>1</u>



# C. RAMP LAYOUT MAP

NAIA EXPRESSWAY PHASE II

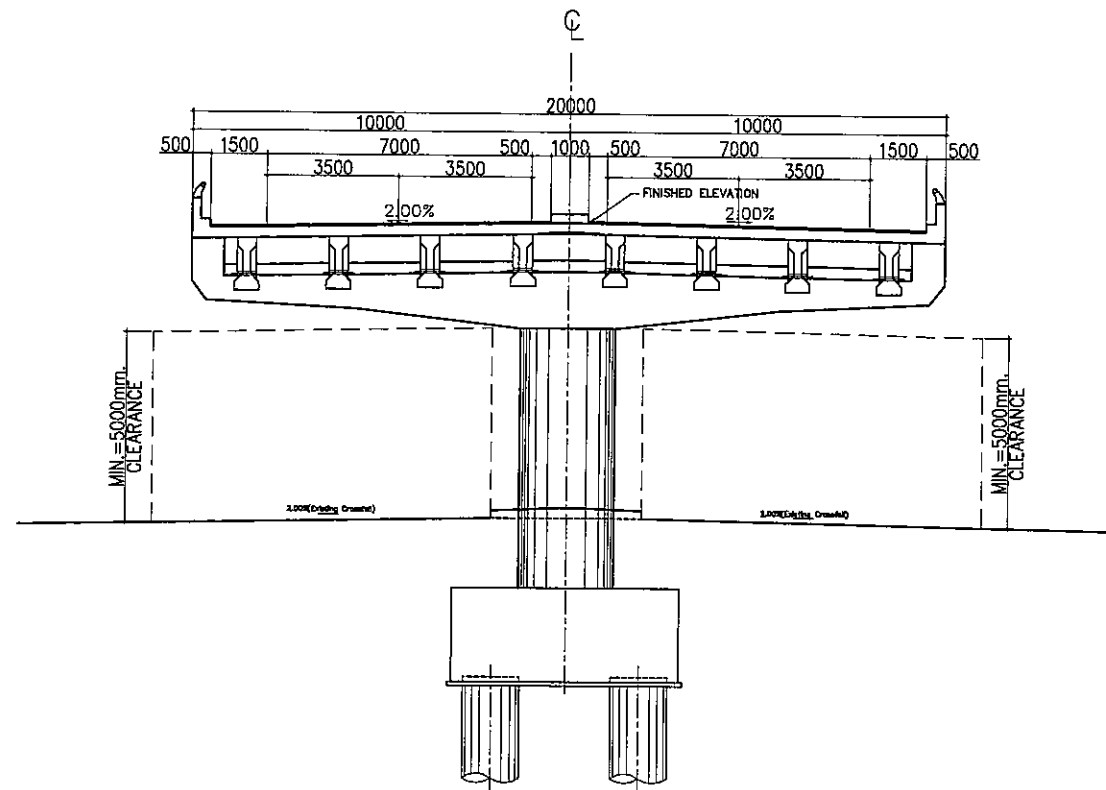


START OF PROJECT  
 NORTH=1605866.31486  
 EAST =502268.99378

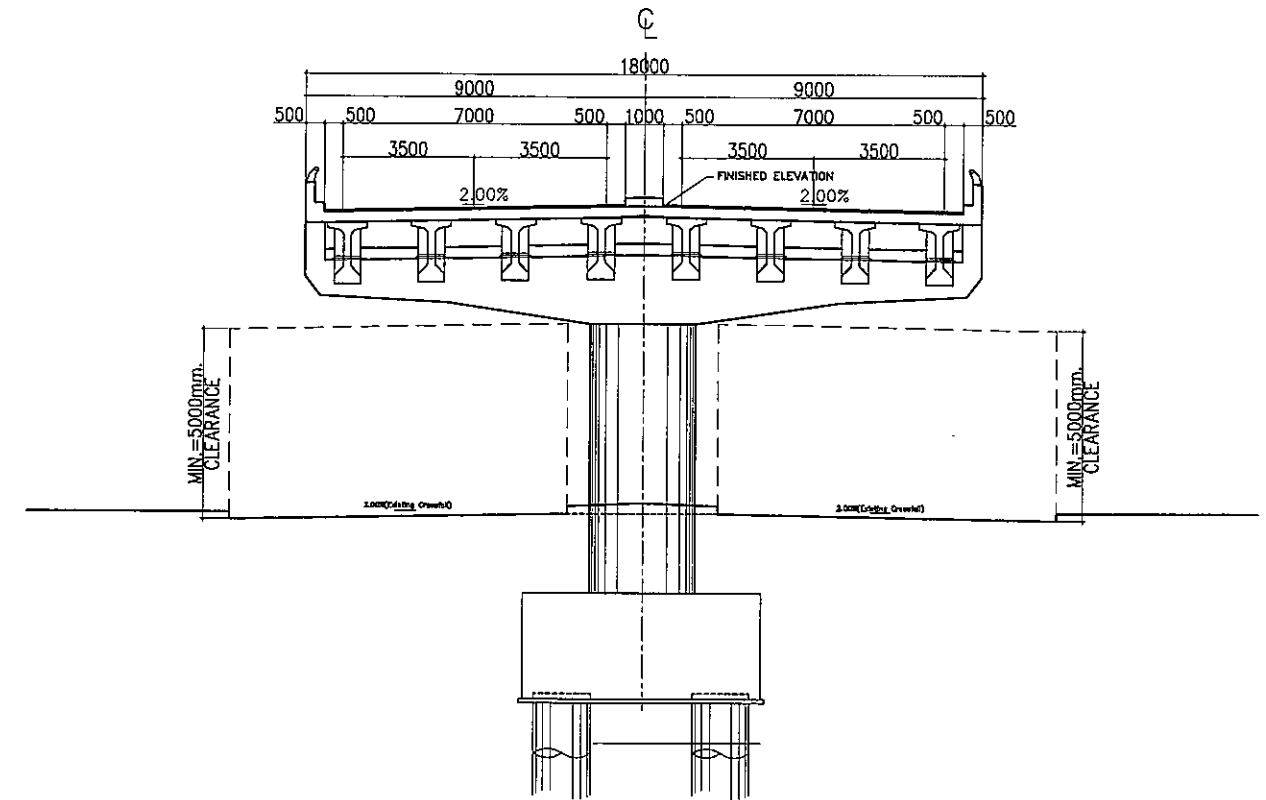
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:5000	RAMP LAYOUT MAP	C-1
			SHEET NO.
			1 OF 1

# D. TYPICAL CROSS SECTION

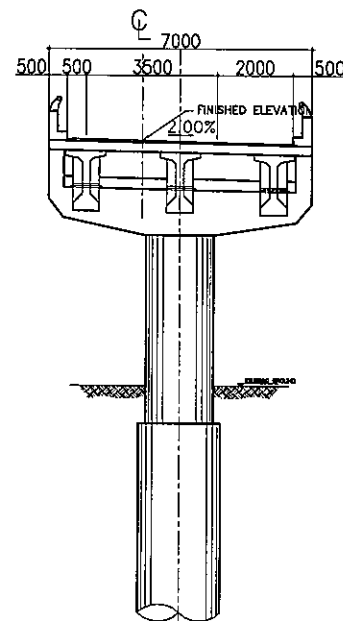
NAIA EXPRESSWAY PHASE II



TYPICAL CROSS SECTION FOR 4 LANES(W=20M) AASHTO GIRDER



TYPICAL CROSS SECTION FOR 4 LANES(W=18M) AASHTO GIRDER



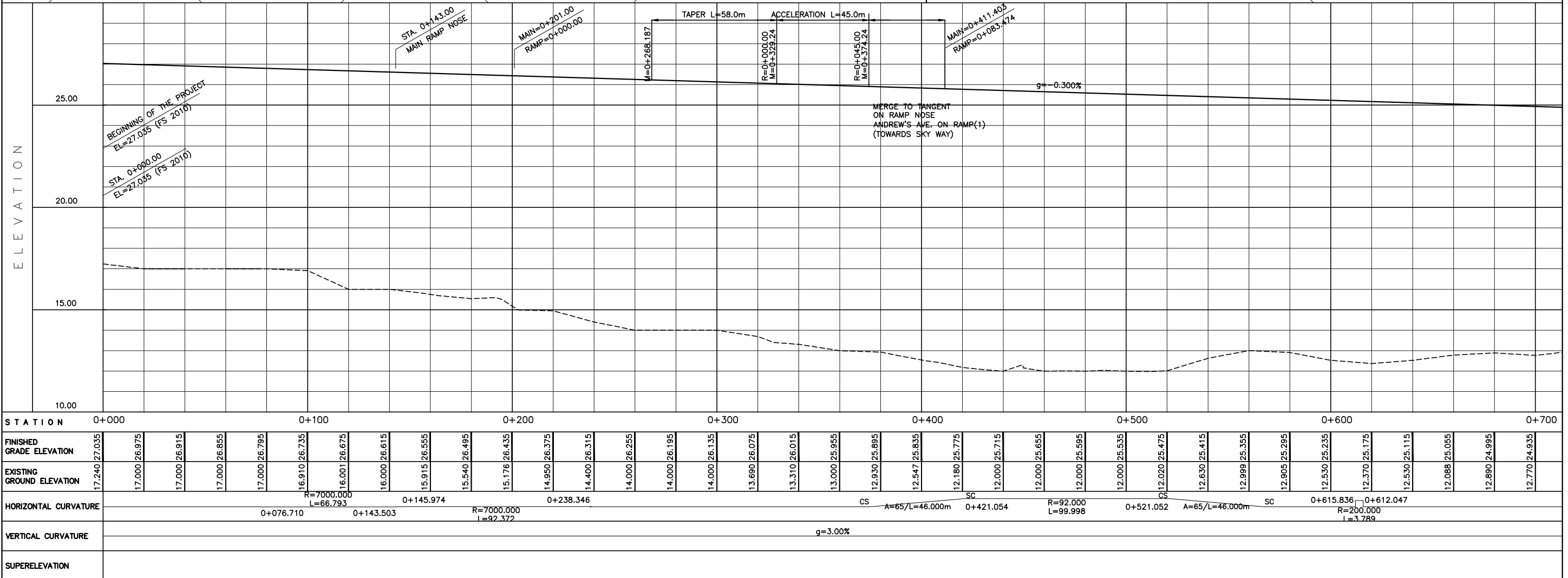
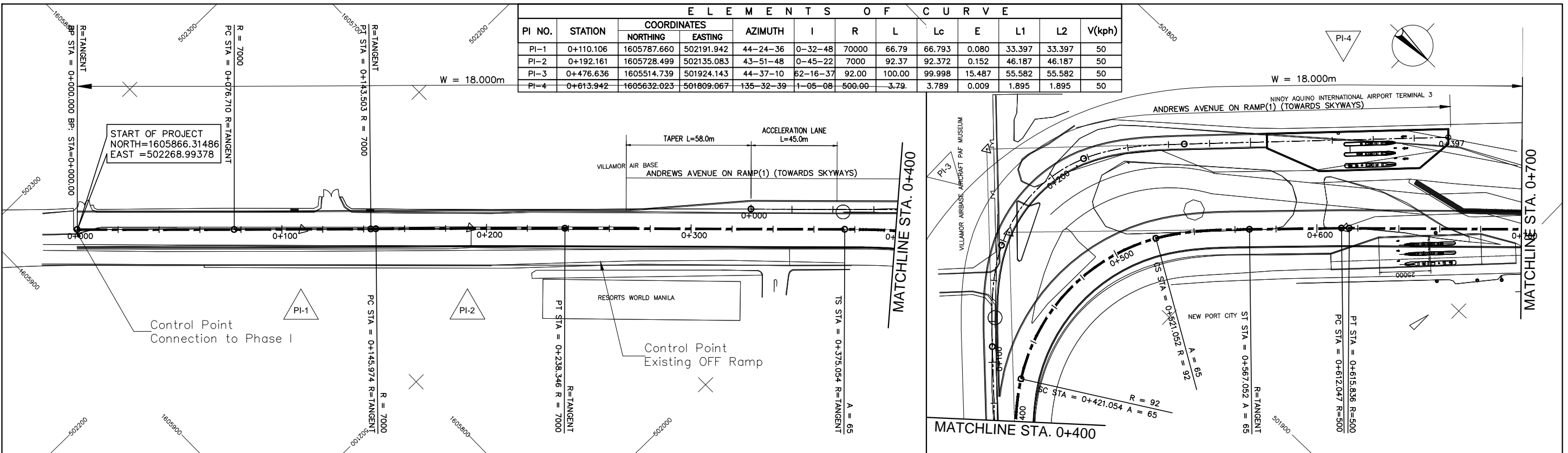
TYPICAL CROSS SECTION OF RAMPS FOR 1 LANE (W=7M) AASHTO GIRDER

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:200	TYPICAL CROSS SECTION	D-1
			SHEET NO.
			1 OF 1

# E. PLAN AND PROFILE

NAIA TO ROXAS BLVD. MAIN ALIGNMENT  
NAIA EXPRESSWAY PHASE II

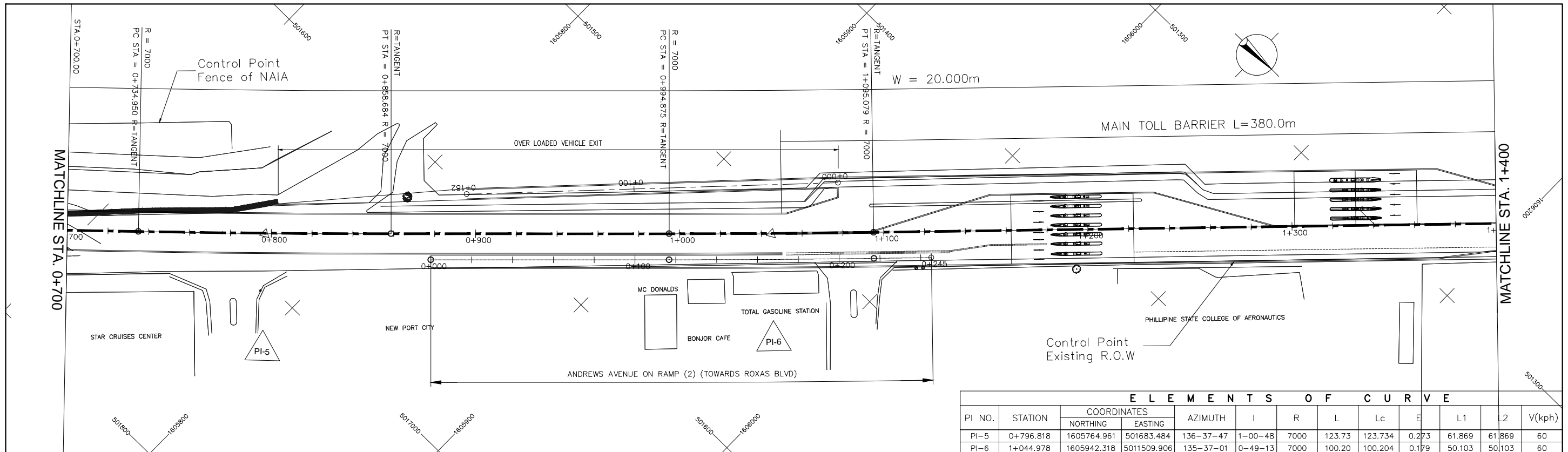
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+110.106	1605787.660	502191.942	44-24-36	0-32-48	7000	66.79	66.793	0.080	33.397	33.397	50
PI-2	0+192.161	1605728.499	502135.083	43-51-48	0-45-22	7000	92.37	92.372	0.152	46.187	46.187	50
PI-3	0+476.636	1605514.739	501924.143	44-37-10	62-16-37	92.00	100.00	99.998	15.487	55.582	55.582	50
PI-4	0+613.942	1605632.023	501809.067	135-32-39	1-05-08	600.00	3.79	3.789	0.009	1.895	1.895	50



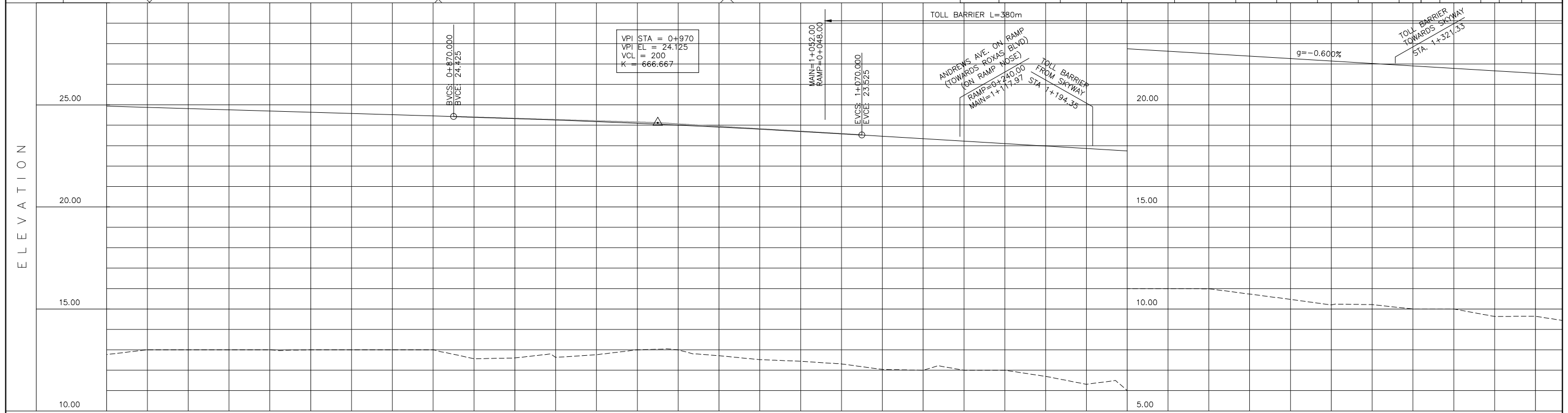
STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700
FINISHED GRADE ELEVATION								
EXISTING GROUND ELEVATION	17.240	17.000	17.000	17.000	17.000	16.910	16.001	16.000
HORIZONTAL CURVATURE	R=7000.000 L=66.793		0+145.974	0+238.346	CS A=65/L=46.000m	0+421.054	R=92.000 L=99.998	0+521.052
VERTICAL CURVATURE	g=3.00%							
SUPERELEVATION								

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V = 200 H = 2000	PLAN AND PROFILE STA. 0+000 - STA. 0+700	E-1
			SHEET NO.
			1 OF 7





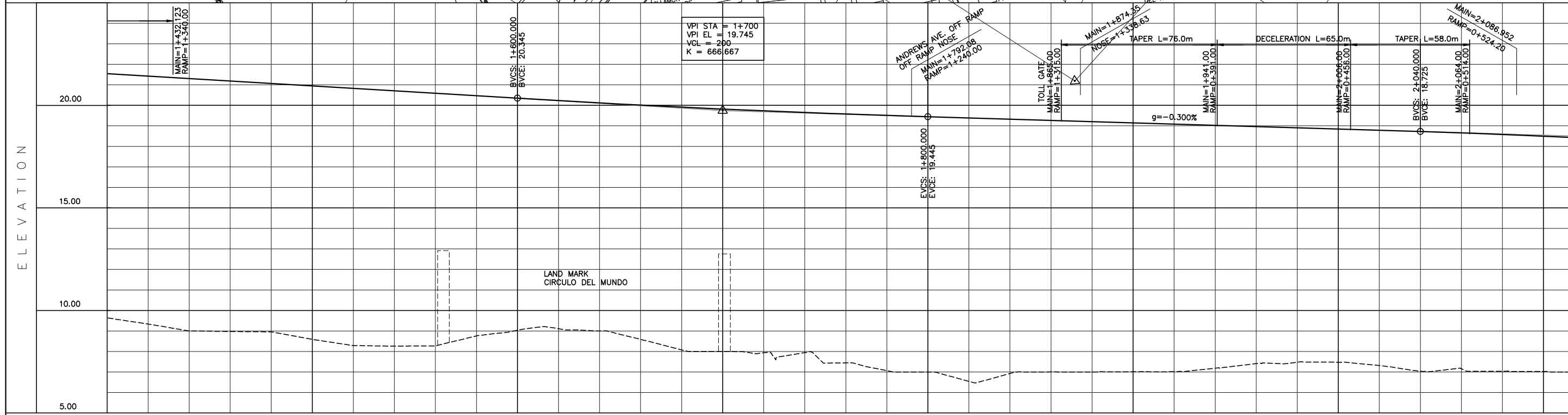
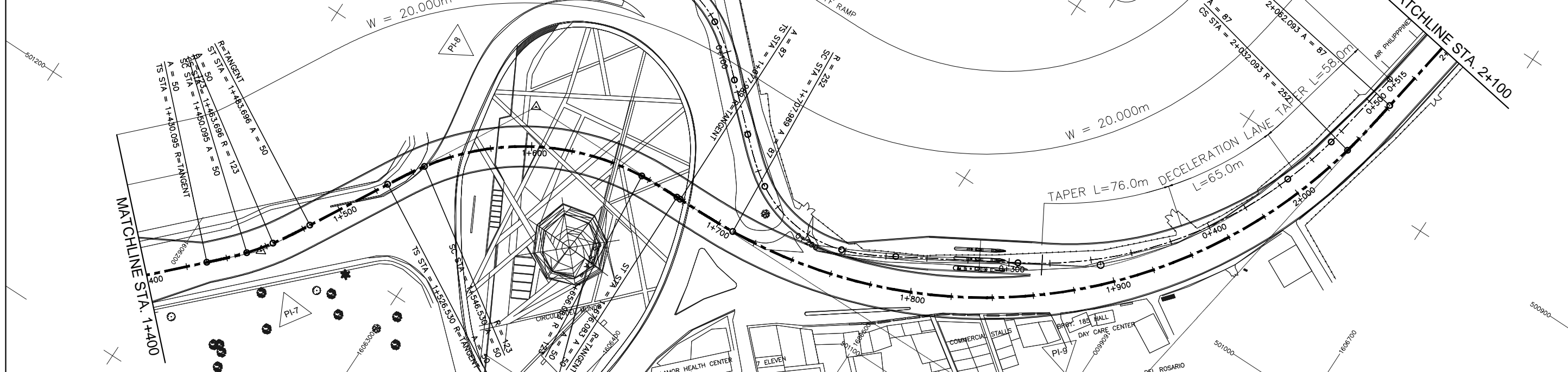
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-5	0+796.818	1605764.961	501683.484	136-37-47	1-00-48	7000	123.73	123.734	0.273	61.869	61.869	60
PI-6	1+044.978	1605942.318	5011509.906	135-37-01	0-49-13	7000	100.20	100.204	0.179	50.103	50.103	60



STATION	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400	
FINISHED GRADE ELEVATION	24.875	24.815	24.755	24.695	24.635	24.575	24.515	24.455	
EXISTING GROUND ELEVATION	13.000	13.000	13.000	13.000	12.560	12.600	12.631	12.760	
HORIZONTAL CURVATURE	R=7000.000 L=123.734		R=7000.000 L=123.734		R=7000.000 L=123.734		R=7000.000 L=123.734		
VERTICAL CURVATURE	g=3.00%			LVC = 200			g=-6.00%		
SUPERELEVATION									

<b>NAIA EXPRESSWAY PHASE II</b>	PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
		V = 200 H = 2000	PLAN AND PROFILE STA. 0+700 - STA. 1+400	E-2
				SHEET NO. 2 OF 7

ELEMENTS OF CURVE											
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2
		NORTHING	EASTING								
PI-7	1+456.902	1606232.640	501217.517	134-47-48	6-20-09	123.00	13.60	13.601	0.188	6.808	6.808
PI-8	1+605.240	1606306.348	501085.332	119-08-40	51-01-56	123.00	109.55	109.553	13.293	58.710	58.710
PI-9	1+896.791	1606618.293	501082.572	179-29-35	73-39-37	252.10	324.10	342.104	62.861	188.802	188.802



STATION	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100
FINISHED GRADE ELEVATION	21.425	21.305	21.185	21.065	20.945	20.825	20.705	20.585
EXISTING GROUND ELEVATION	9.340	9.002	8.974	8.958	8.591	8.288	8.262	8.275
HORIZONTAL CURVATURE	1+463.696 R=123.000 L=13.601		1+450.095 R=123.000 L=13.601		A=50/L=20.000m		R=250.000 L=321.154	
VERTICAL CURVATURE	g=-6.00%				LVC = 200			
SUPERELEVATION								

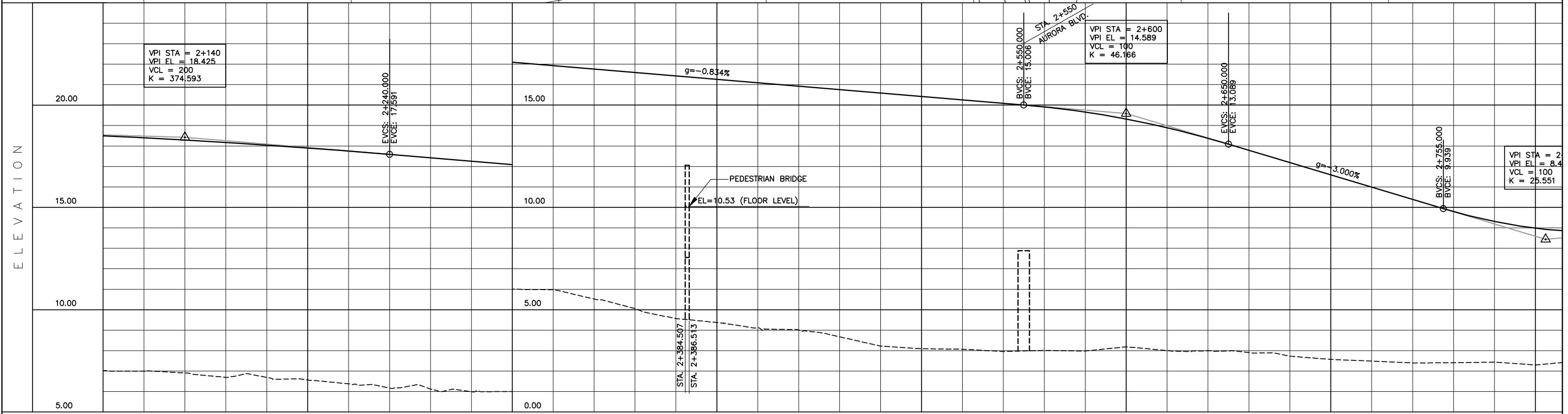
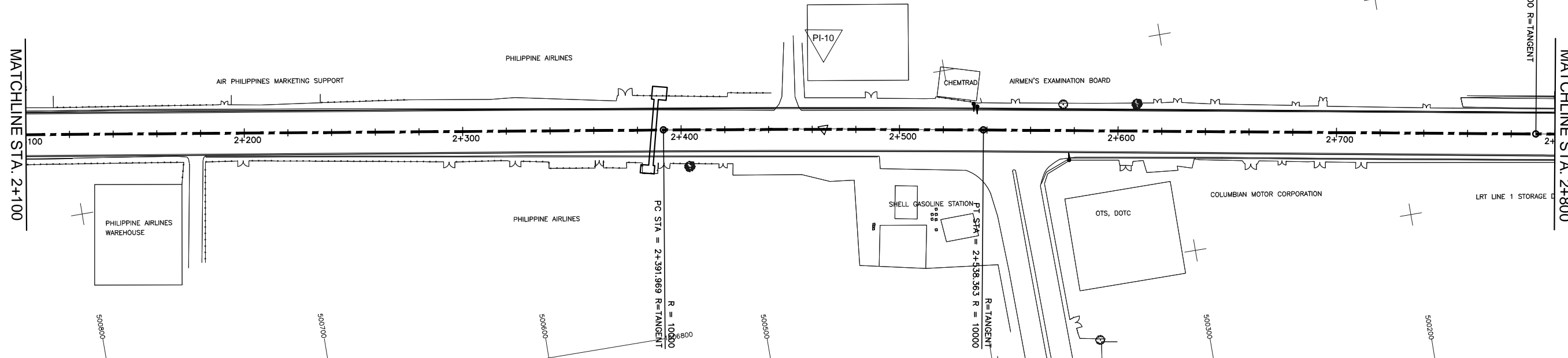
<b>NAIA EXPRESSWAY PHASE II</b>	PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
		V = 200 H = 2000	PLAN AND PROFILE STA. 1+400 - STA. 2+100	E-3
				SHEET NO. 3 OF 7

ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-10	2+465.168	1606717.245	500458.836	99-00-52	0-30-20	10000	146.39	146.394	0.268	73.198	73.198	60

W = 20.000m

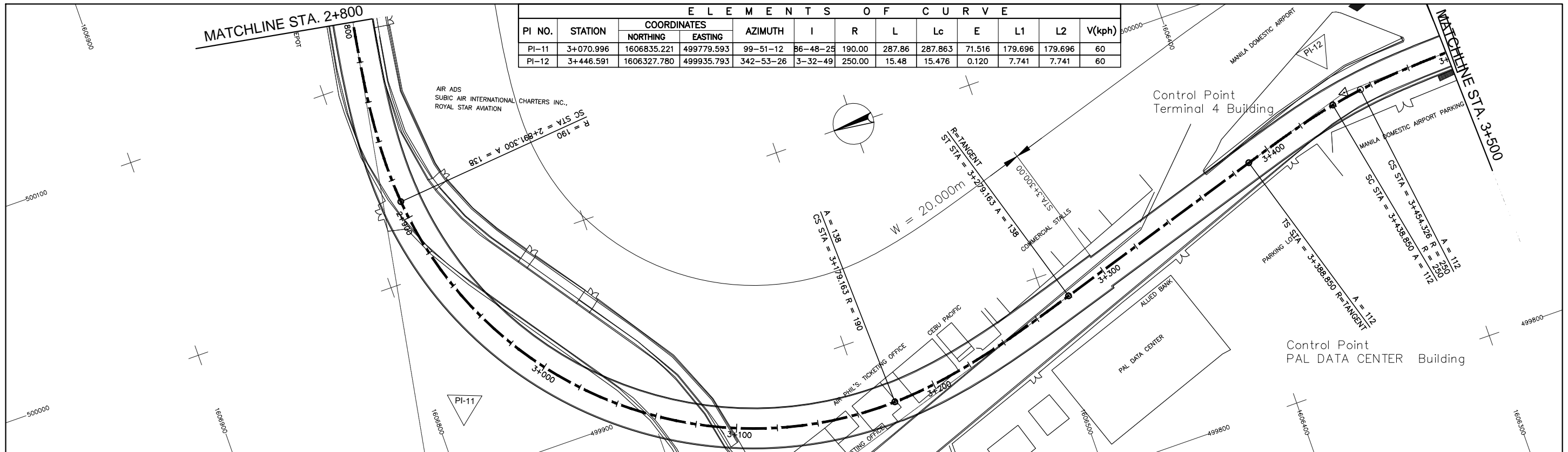
MATCHLINE STA. 2+100

MATCHLINE STA. 2+800

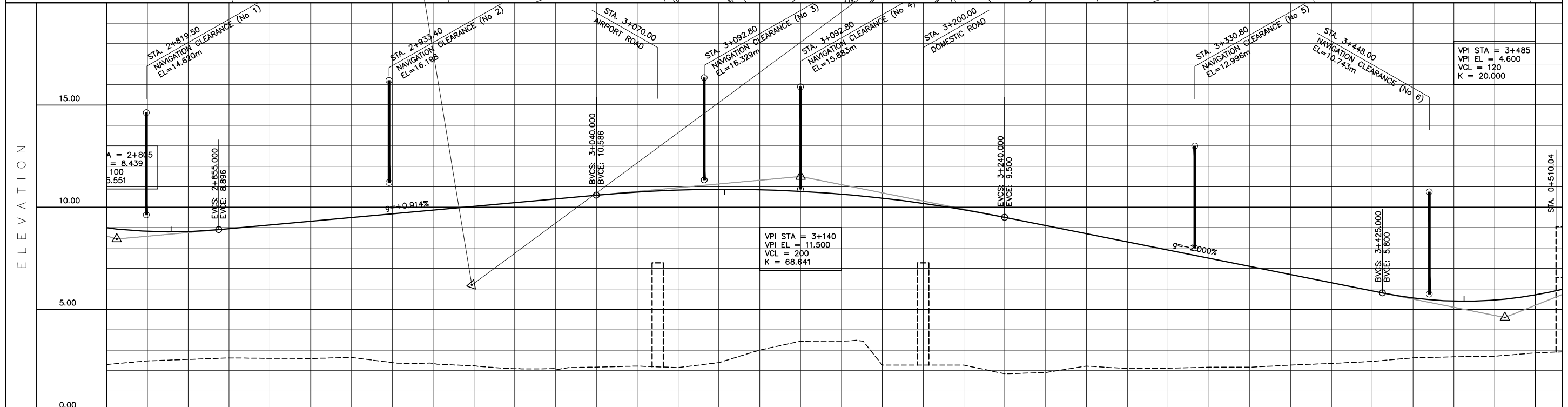


STATION	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800																																																																																																									
FINISHED GRADE ELEVATION	18.400	18.292	18.173	18.043	17.903	17.753	17.591	17.424	17.258	17.091	16.924	16.757	16.590	16.424	16.257	16.090	15.923	15.756	15.590	15.423	15.256	15.089	14.912	14.746	14.580	14.414	14.248	14.082	13.916	13.750	13.584	13.418	13.252	13.086	12.920	12.754	12.588	12.422	12.256	12.090	11.924	11.758	11.592	11.426	11.260	11.094	10.928	10.762	10.596	10.430	10.264	10.098	9.932	9.766	9.600	9.434	9.268	9.102	8.936	8.770	8.604	8.438	8.272	8.106	7.940	7.774	7.608	7.442	7.276	7.110	6.944	6.778	6.612	6.446	6.280	6.114	5.948	5.782	5.616	5.450	5.284	5.118	4.952	4.786	4.620	4.454	4.288	4.122	3.956	3.790	3.624	3.458	3.292	3.126	2.960	2.794	2.628	2.462	2.296	2.130	1.964	1.798	1.632	1.466	1.300	1.134	0.968	0.802	0.636	0.470	0.304	0.138	0.000
EXISTING GROUND ELEVATION	7.004	6.909	6.898	6.889	6.866	6.837	6.803	6.764	6.721	6.674	6.623	6.568	6.509	6.446	6.379	6.308	6.233	6.154	6.071	5.984	5.893	5.798	5.699	5.596	5.489	5.378	5.263	5.144	5.021	4.894	4.763	4.628	4.489	4.346	4.200	4.051	3.898	3.741	3.580	3.415	3.246	3.073	2.896	2.715	2.530	2.341	2.148	1.951	1.750	1.545	1.336	1.123	0.906	0.685	0.460	0.231	0.000																																																								
HORIZONTAL CURVATURE											2+392.572										R=10000.000 L=146.394										2+538.966										CS																																																																								
VERTICAL CURVATURE	LVC = 200										g = -0.834%										LVC = 100										g = -3.000%																																																																																		
SUPERELEVATION																																																																																																																	

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V = 200 H = 2000	PLAN AND PROFILE STA. 2+100 - STA. 2+800	E-4
			SHEET NO.
			4 OF 7

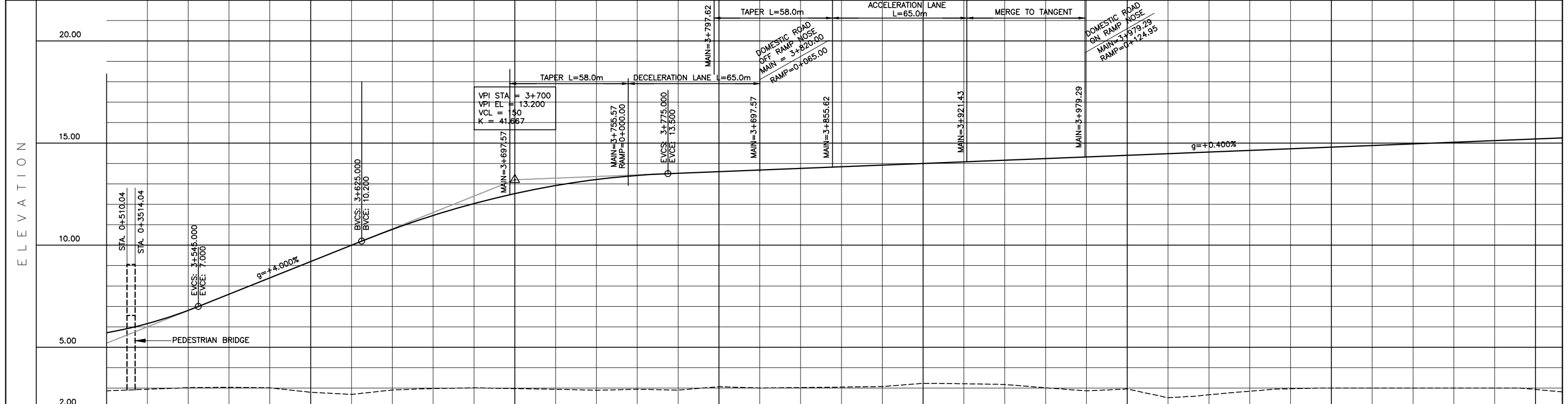
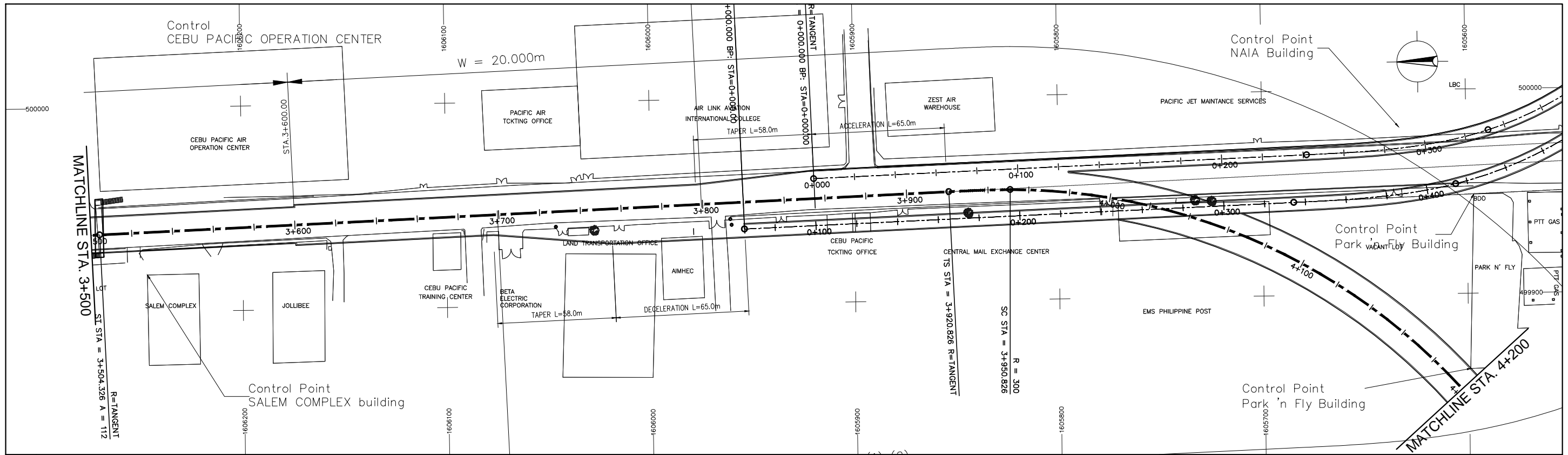


ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-11	3+070.996	1606835.221	499779.593	99-51-12	86-48-25	190.00	287.86	287.863	71.516	179.696	179.696	60
PI-12	3+446.591	1606327.780	499935.793	342-53-26	3-32-49	250.00	15.48	15.476	0.120	7.741	7.741	60



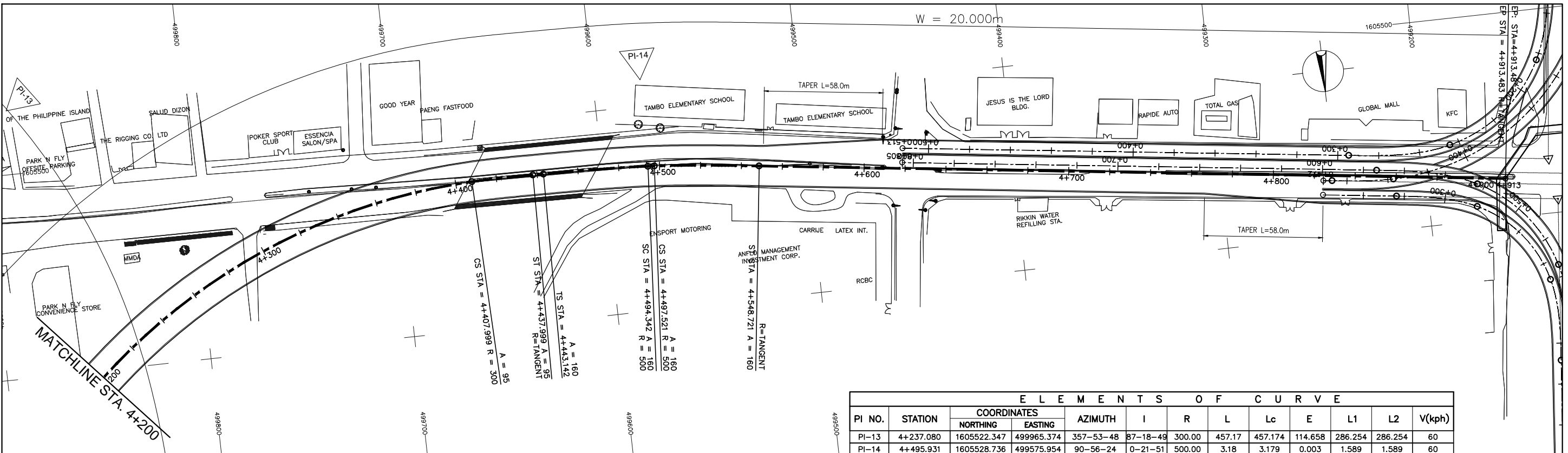
STATION	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500
FINISHED GRADE ELEVATION	8.816	8.803	8.942	9.124	9.307	9.490	9.673	9.855
EXISTING GROUND ELEVATION	2.477	2.551	2.624	2.604	2.595	2.648	2.393	2.624
HORIZONTAL CURVATURE	A=138/L=100.000m		2+891.903	R=190.000	3+179.765	A=138/L=100.000m	SC	A=112/L=50.000m
VERTICAL CURVATURE	LVC = 100		g=+0.914%	LVC = 200		g=-2.000%		LVC = 120
SUPERELEVATION								

PROJECT TITLE	NAIA EXPRESSWAY PHASE II		
	SCALE	V = 200 H = 2000	
	SHEET CONTENT	PLAN AND PROFILE STA. 2+800 - STA. 3+500	
DRAWING NO.	E-5		
SHEET NO.	5 OF 7		

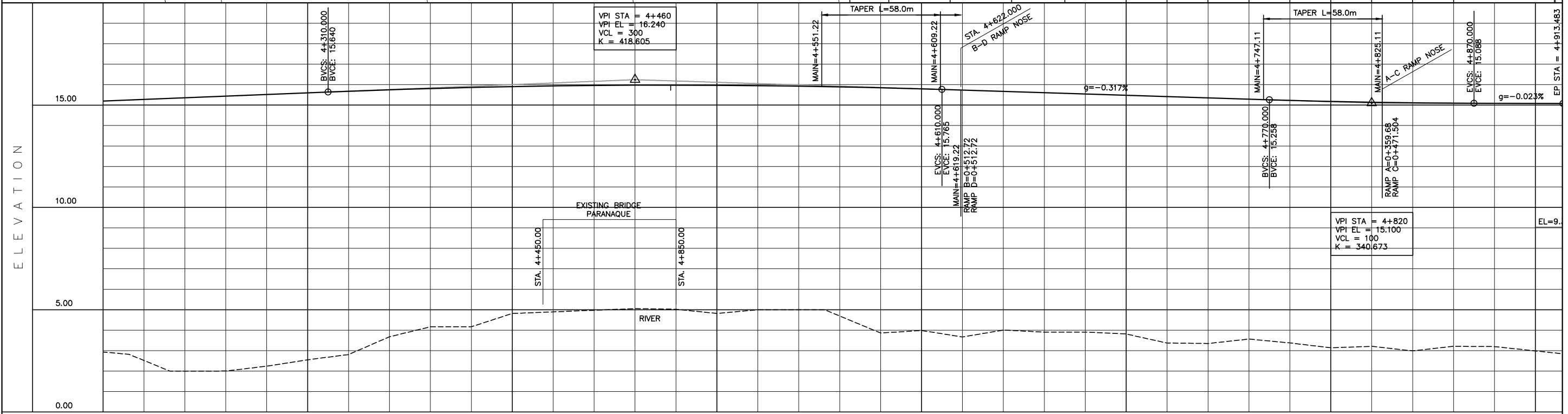


STATION	3+500	3+600	3+700	3+800	3+900	4+000	4+100	4+200																												
FINISHED GRADE ELEVATION	6.156	6.806	7.600	8.400	9.200	10.000	10.773	11.453	12.037	12.525	12.917	13.213	13.413	13.520	13.600	13.680	13.760	13.840	13.920	14.000	14.080	14.160	14.240	14.320	14.400	14.480	14.560	14.640	14.720	14.800	14.880	14.960	15.040	15.120	15.200	
EXISTING GROUND ELEVATION	2.943	3.022	3.039	3.015	2.798	2.692	2.909	2.982	3.013	2.978	2.941	2.897	2.942	2.905	3.069	3.005	3.024	3.374	3.078	3.236	3.215	3.180	3.015	2.866	2.955	2.528	2.673	2.848	2.968	3.004	2.999	2.999	3.001	3.000	2.934	
HORIZONTAL CURVATURE	SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC		SC	
VERTICAL CURVATURE	g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%		LVC = 150		g=+4.000%			
SUPERELEVATION	0																																			

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V = 200 H = 2000	PROFILE STA.3+500 - STA. 4+200	E-6
			SHEET NO.
			6 OF 7



ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-13	4+237.080	1605522.347	499965.374	357-53-48	87-18-49	300.00	457.17	457.174	114.658	286.254	286.254	60
PI-14	4+495.931	1605528.736	499575.954	90-56-24	0-21-51	500.00	3.18	3.178	0.003	1.589	1.589	60



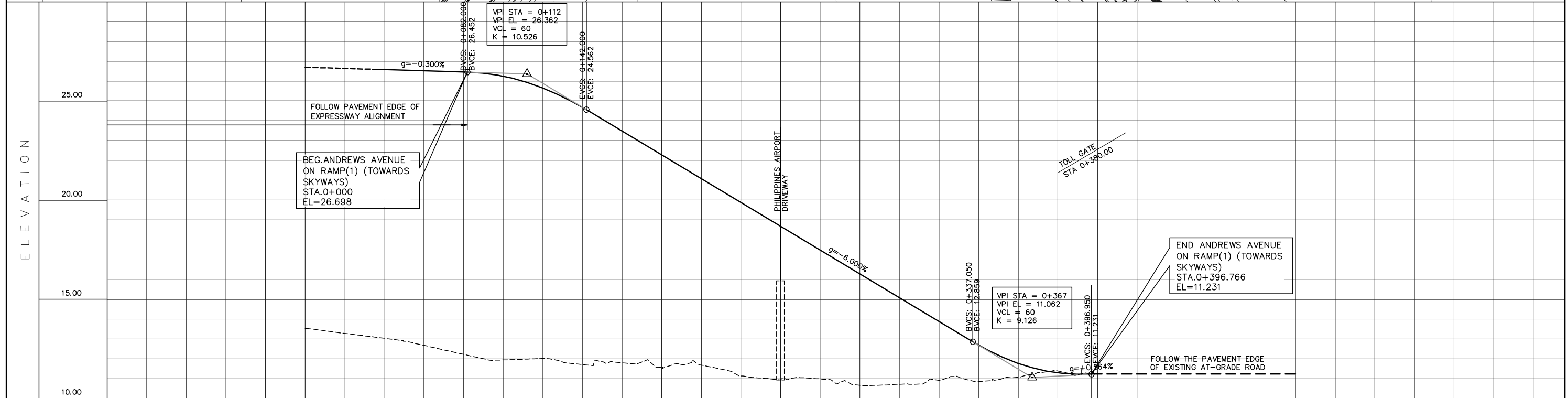
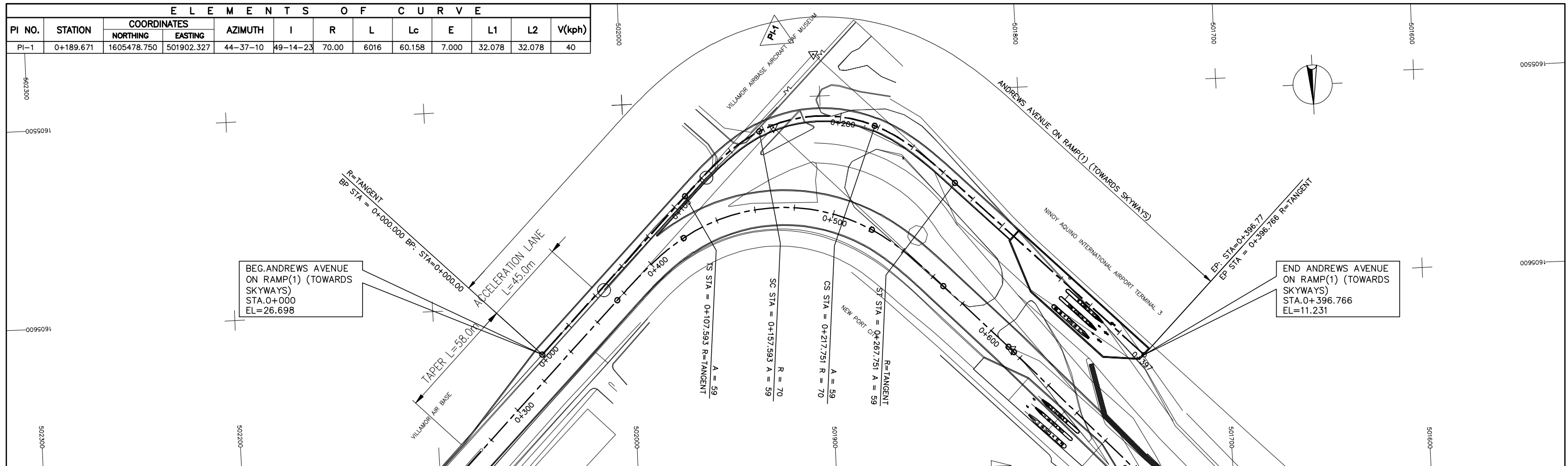
STATION	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	4+913.483	
FINISHED GRADE ELEVATION	2.521	2.004	2.006	2.241	2.556	2.808	3.679	4.166	4.169	
EXISTING GROUND ELEVATION	15.280	15.360	15.440	15.520	15.600	15.679	15.749	15.810	15.861	
HORIZONTAL CURVATURE	CS A=95/L=30.000m			SC A=160/L=51.200m	CS SC A=160/L=51.200m	SC				
VERTICAL CURVATURE	q=+4.000%			LVC = 150			q=-0.317%		LVC = 100	q=-0.023%
SUPERELEVATION										

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V = 200 H = 2000	PROFILE STA. 4+200 - STA. 4+913.483	E-7
			SHEET NO.
			7 OF 7

# F. PLAN AND PROFILE

RAMP MAIN ALIGNMENT  
NAIA EXPRESSWAY PHASE II

ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+189.671	1605478.750	501902.327	44-37-10	49-14-23	70.00	6016	60.158	7.000	32.078	32.078	40

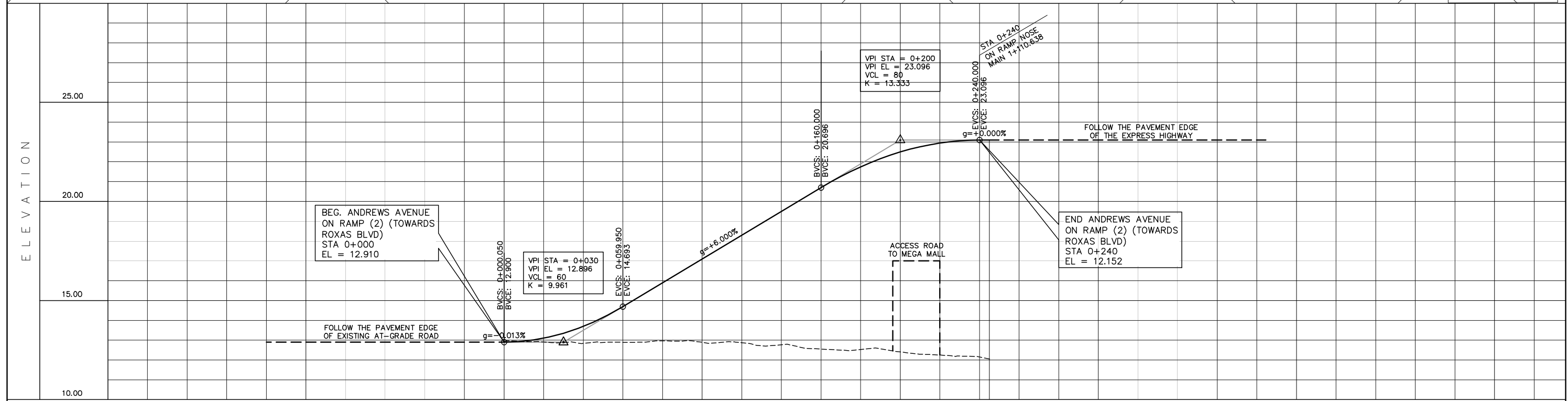
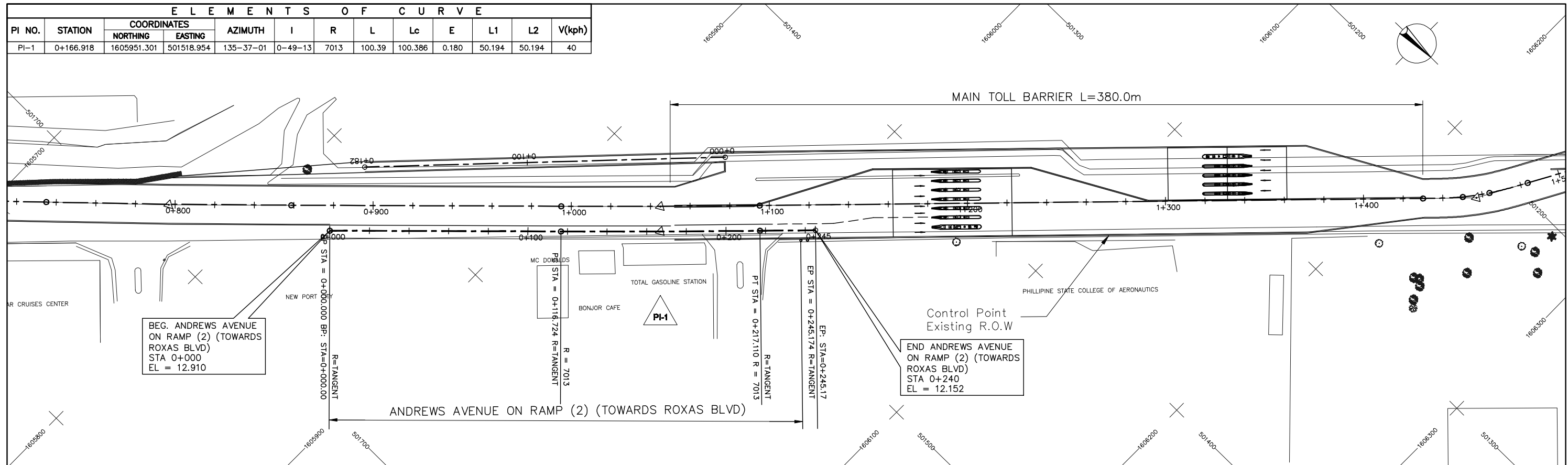


STATION	0+000	0+100	0+200	0+300	0+400	0+397																																				
FINISHED GRADE ELEVATION	13.535	26.698	13.284	26.638	13.036	26.578	12.680	26.518	12.225	26.458	11.944	26.244	12.018	25.652	11.713	24.680	11.800	23.482	11.544	22.282	11.682	21.082	11.142	19.882	10.937	18.682	10.985	17.482	10.669	16.282	10.718	15.082	10.914	13.882	10.856	12.687	11.070	11.771	11.391	11.293	11.231	11.231
EXISTING GROUND ELEVATION	13.535	26.698	13.284	26.638	13.036	26.578	12.680	26.518	12.225	26.458	11.944	26.244	12.018	25.652	11.713	24.680	11.800	23.482	11.544	22.282	11.682	21.082	11.142	19.882	10.937	18.682	10.985	17.482	10.669	16.282	10.718	15.082	10.914	13.882	10.856	12.687	11.070	11.771	11.391	11.293	11.231	11.231
HORIZONTAL CURVATURE			CS		A=59/L=50.000m		SC		0+157.593 R=70.000		0+217.751 R=70.000		L=60.158		CS		A=59/L=50.000m		SC																							
VERTICAL CURVATURE	g = -0.300%		LVC = 60.00				g = -6.000%				LVC = 60.00		g = +0.564%																													
SUPERELEVATION																																										

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PLAN AND PROFILE ANDREWS AVENUE ON RAMP(1) TOWARDS SKYWAY STA. 0+000 - STA. 0+397	F-1
			SHEET NO.
			1 of 1



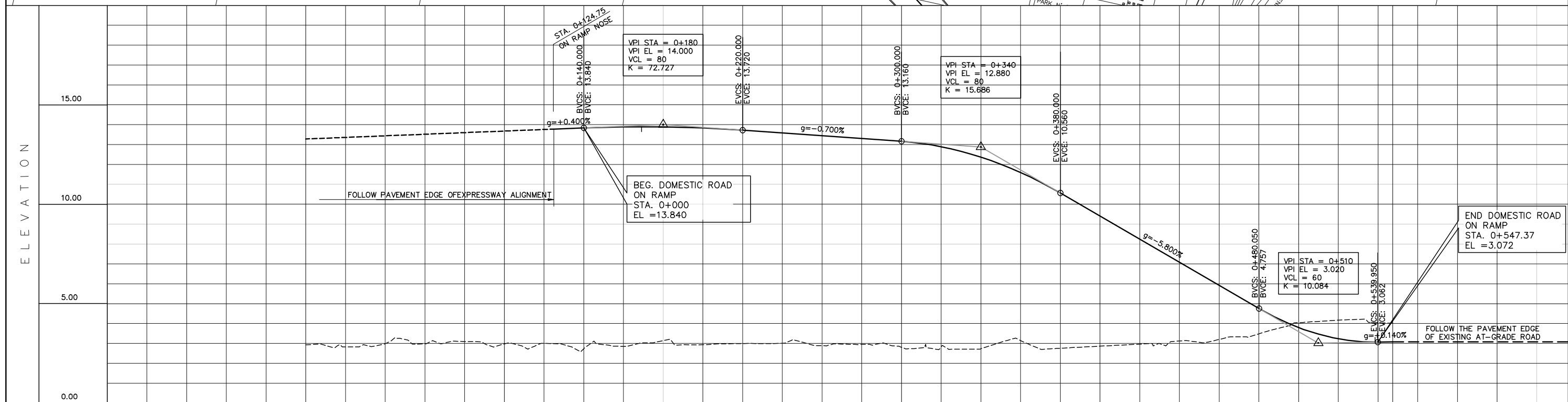
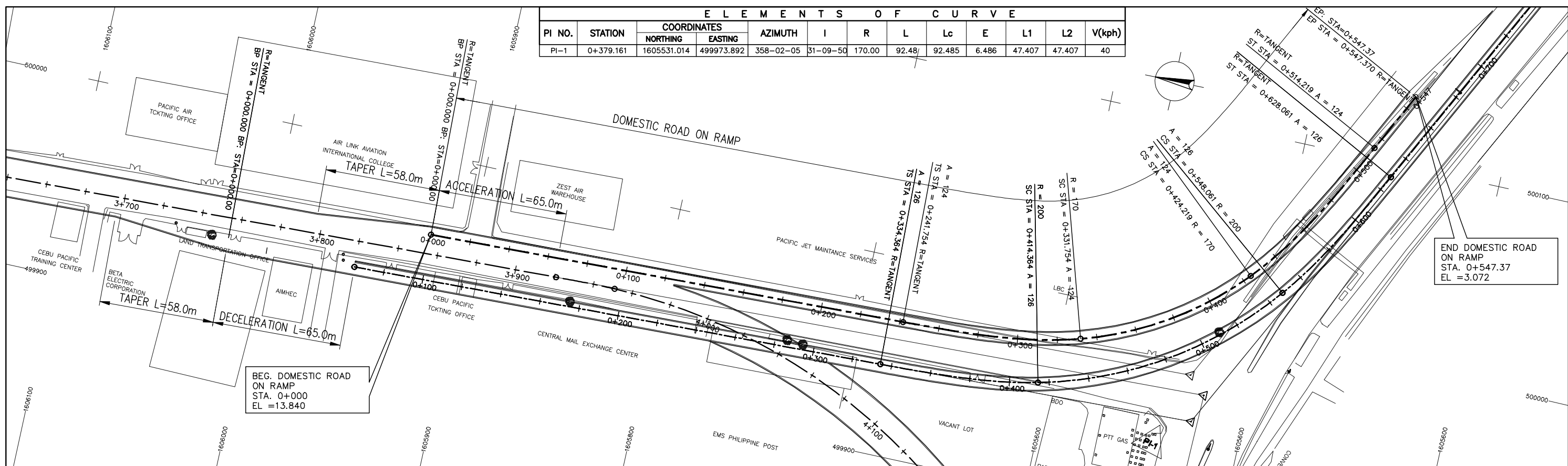
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+166.918	1605951.301	501518.954	135-37-01	0-49-13	7013	100.39	100.386	0.180	50.194	50.194	40



STATION	0+000	0+100	0+200	0+245
FINISHED GRADE ELEVATION	12.909	12.910	12.833	12.894
EXISTING GROUND ELEVATION	12.909	12.910	12.833	12.894
HORIZONTAL CURVATURE	R=7012.750 L=100.386			
VERTICAL CURVATURE	g=-0.013%	LVC=60.00	g=+6.000%	LVC=80.00
SUPERELEVATION				

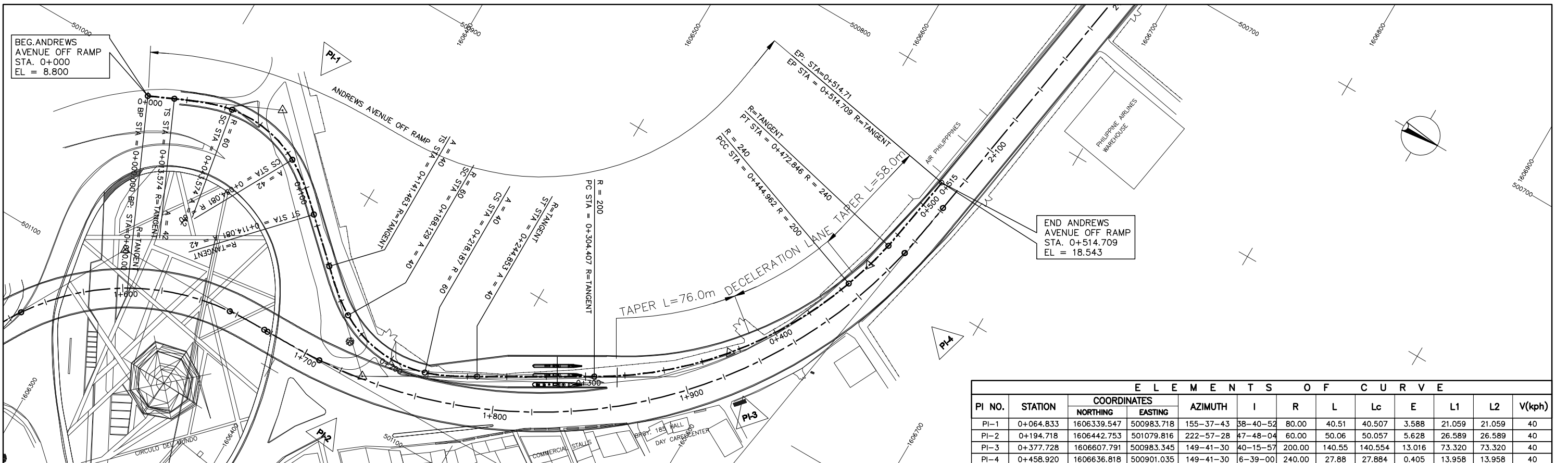
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PLAN AND PROFILE ANDREWS AVENUE ON RAMP(2) TOWARDS ROXAS BLVD. STA. 0+000 - STA. 0+245	F-2
			SHEET NO.
			1 of 1

ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+379.161	1605531.014	499973.892	358-02-05	31-09-50	170.00	92.48	92.485	6.486	47.407	47.407	40

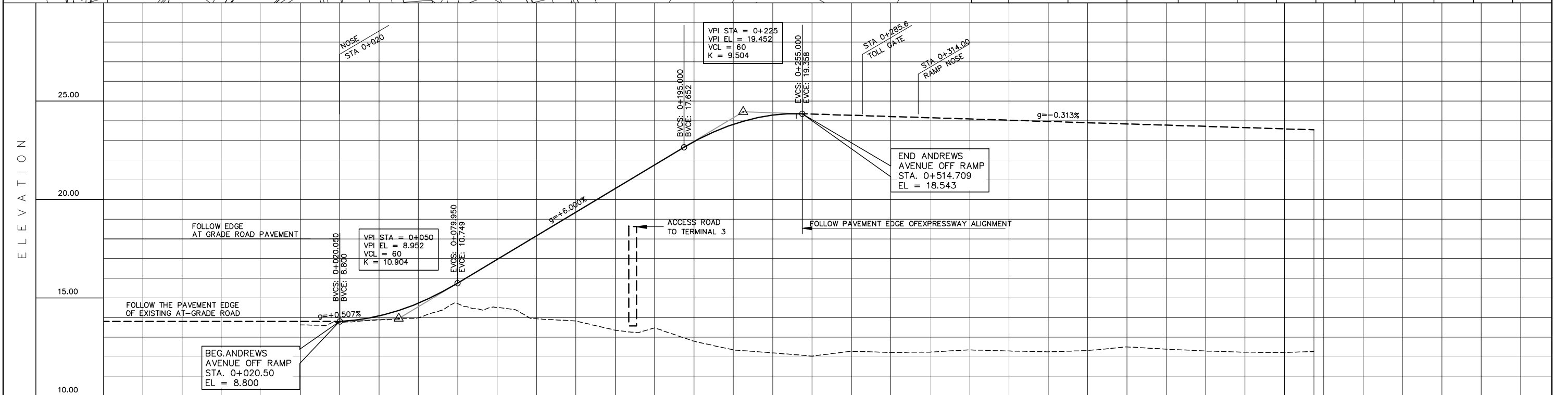


STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+547.37
FINISHED GRADE ELEVATION	13.840	13.892	13.832	13.160	10.560	4.760	3.072
EXISTING GROUND ELEVATION	2.925	2.974	2.935	2.806	2.753	3.481	4.014
HORIZONTAL CURVATURE	CS A=124/L=90.000m		SC A=124/L=90.000m		CS A=124/L=90.000m		SC
VERTICAL CURVATURE	q=+0.400%		LVC=80.00	q=-0.700%	LVC=80.00	q=-5.800%	LVC=60.00
SUPERELEVATION							

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	V=200 H=2000	<b>PLAN AND PROFILE</b> DOMESTIC ROAD ON RAMP STA. 0+000 - STA. 0+547.37	<b>F-3</b>
			SHEET NO.
			<b>1 of 1</b>



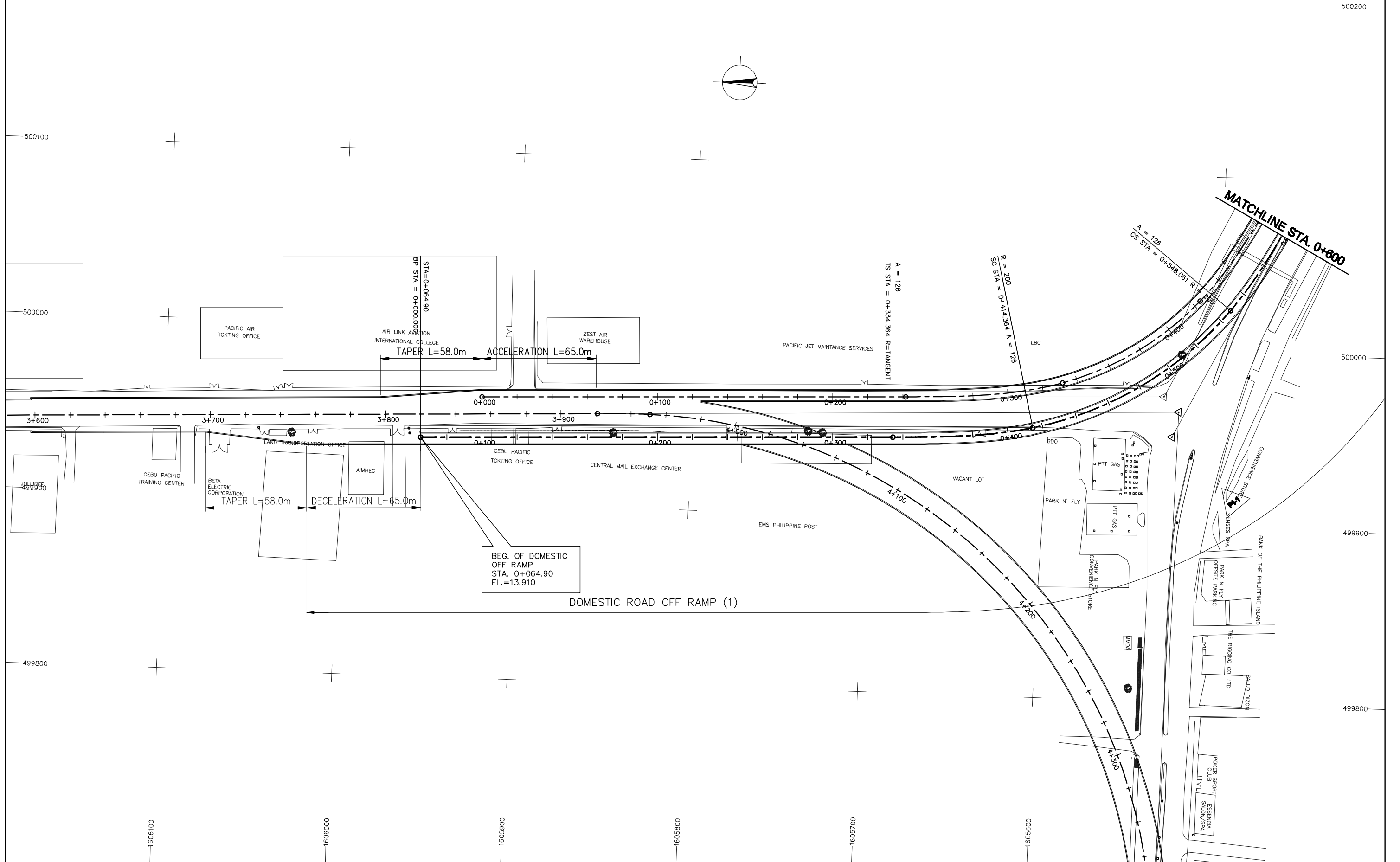
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+064.833	1606339.547	500983.718	155-37-43	38-40-52	80.00	40.51	40.507	3.588	21.059	21.059	40
PI-2	0+194.718	1606442.753	501079.816	222-57-28	47-48-04	60.00	50.06	50.057	5.628	26.589	26.589	40
PI-3	0+377.728	1606607.791	500983.345	149-41-30	40-15-57	200.00	140.55	140.554	13.016	73.320	73.320	40
PI-4	0+458.920	1606636.818	500901.035	149-41-30	6-39-00	240.00	27.88	27.884	0.405	13.958	13.958	40



STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+515
FINISHED GRADE ELEVATION	8.800	8.800	8.800	8.800	8.800	8.800	8.800
EXISTING GROUND ELEVATION	8.622	8.759	8.881	8.912	9.735	9.709	10.752
HORIZONTAL CURVATURE	A=42/L=30.000m SC R=60.000 CS A=42/L=30.000m SC		CS A=40/L=26.667m SC R=60.000 L=50.057		0+168.129 R=60.000 L=50.057		0+218.187 SC A=40/L=26.667m
VERTICAL CURVATURE	g=+0.507% LVC=60.00		g=+6.000%		LVC=60.00		g=-0.313%
SUPERELEVATION							

<b>PROJECT TITLE</b>	<b>SCALE</b>	<b>SHEET CONTENT</b>	<b>DRAWING NO.</b>
<b>NAIA EXPRESSWAY PHASE II</b>	<b>V=200 H=2000</b>	<b>PLAN AND PROFILE ANDREWS AVENUE OFF RAMP STA. 0+000 - STA. 0+515</b>	<b>F-4</b>
			<b>SHEET NO.</b>
			<b>1 of 1</b>

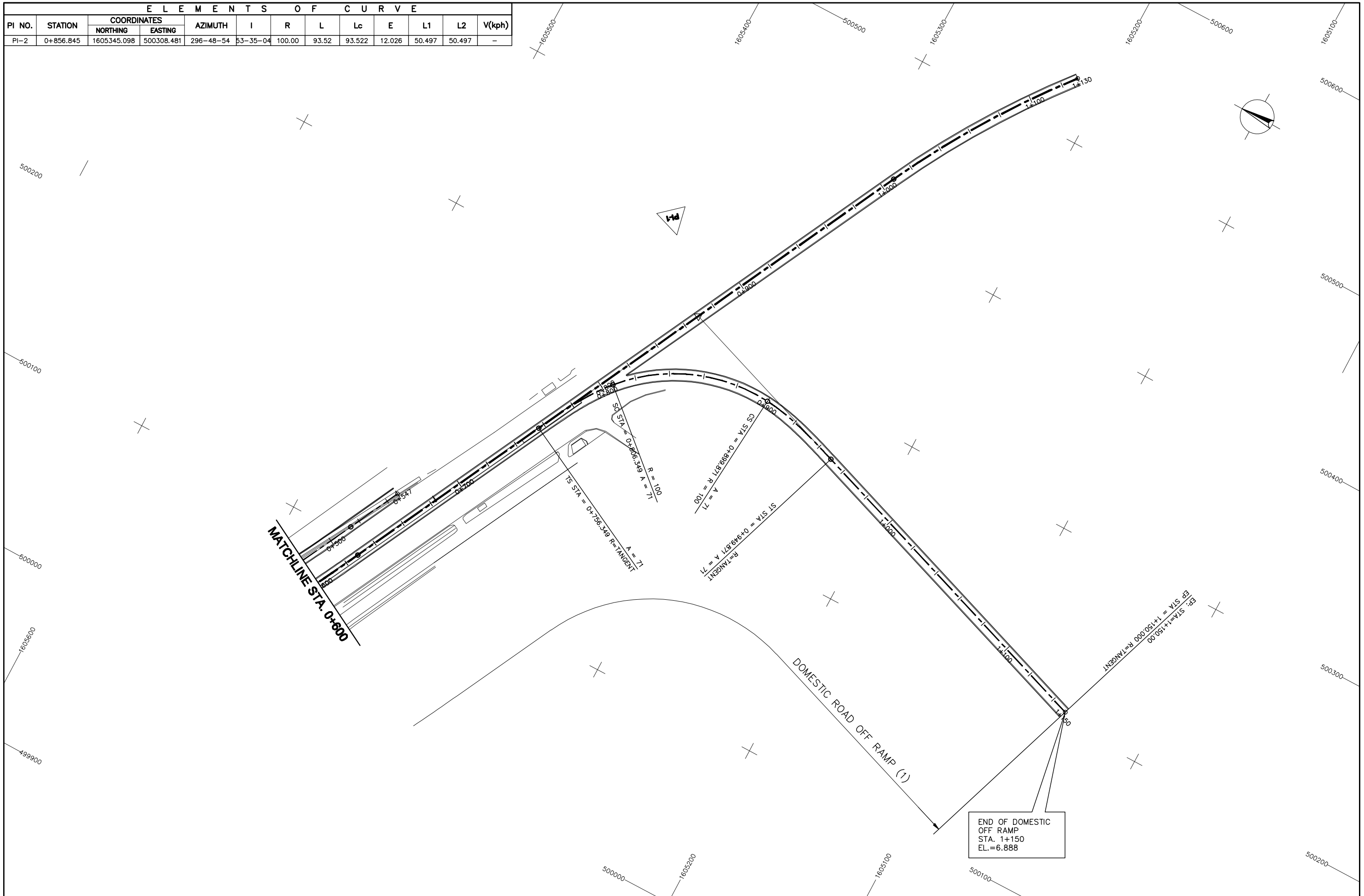
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+483.819	1605525.763	499951.059	358-02-05	38-18-05	200.00	133.70	133.697	11.717	69.454	69.454	-



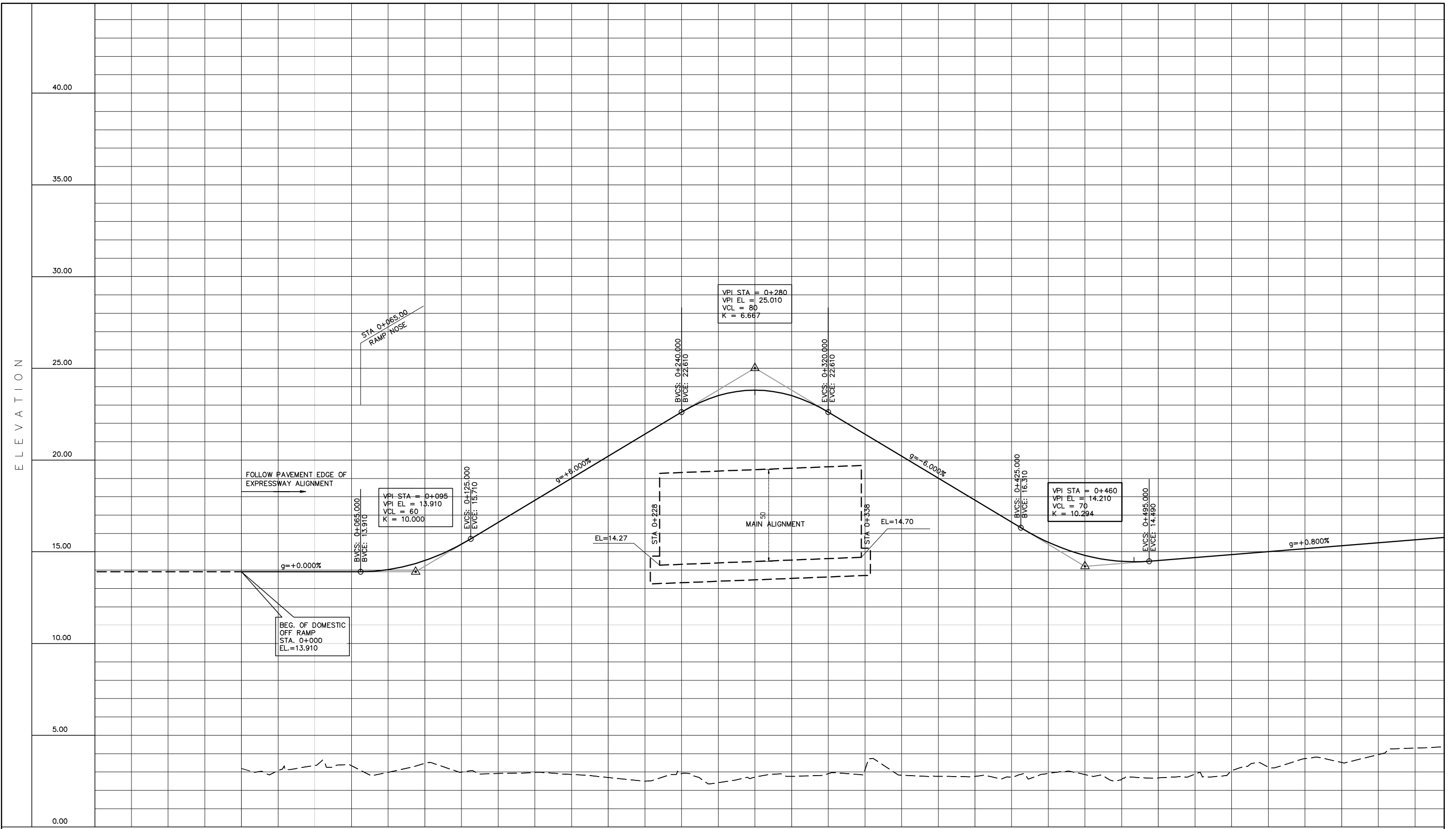
BEG. OF DOMESTIC  
OFF RAMP  
STA. 0+064.90  
EL. = 13.910

<b>PROJECT TITLE</b>	<b>SCALE</b>	<b>SHEET CONTENT</b>	<b>DRAWING NO.</b>
<b>NAIA EXPRESSWAY PHASE II</b>	V=200 H=2000	<b>P L A N (1/2)</b> DOMESTIC ROAD OFF RAMP(1) TOWARDS TERMINAL STA. 0+064.90 - STA. 0+600	<b>F-5</b>
			<b>SHEET NO.</b>
			<b>1 of 2</b>

ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-2	0+856.845	1605345.098	500308.481	296-48-54	53-35-04	100.00	93.52	93.522	12.026	50.497	50.497	-

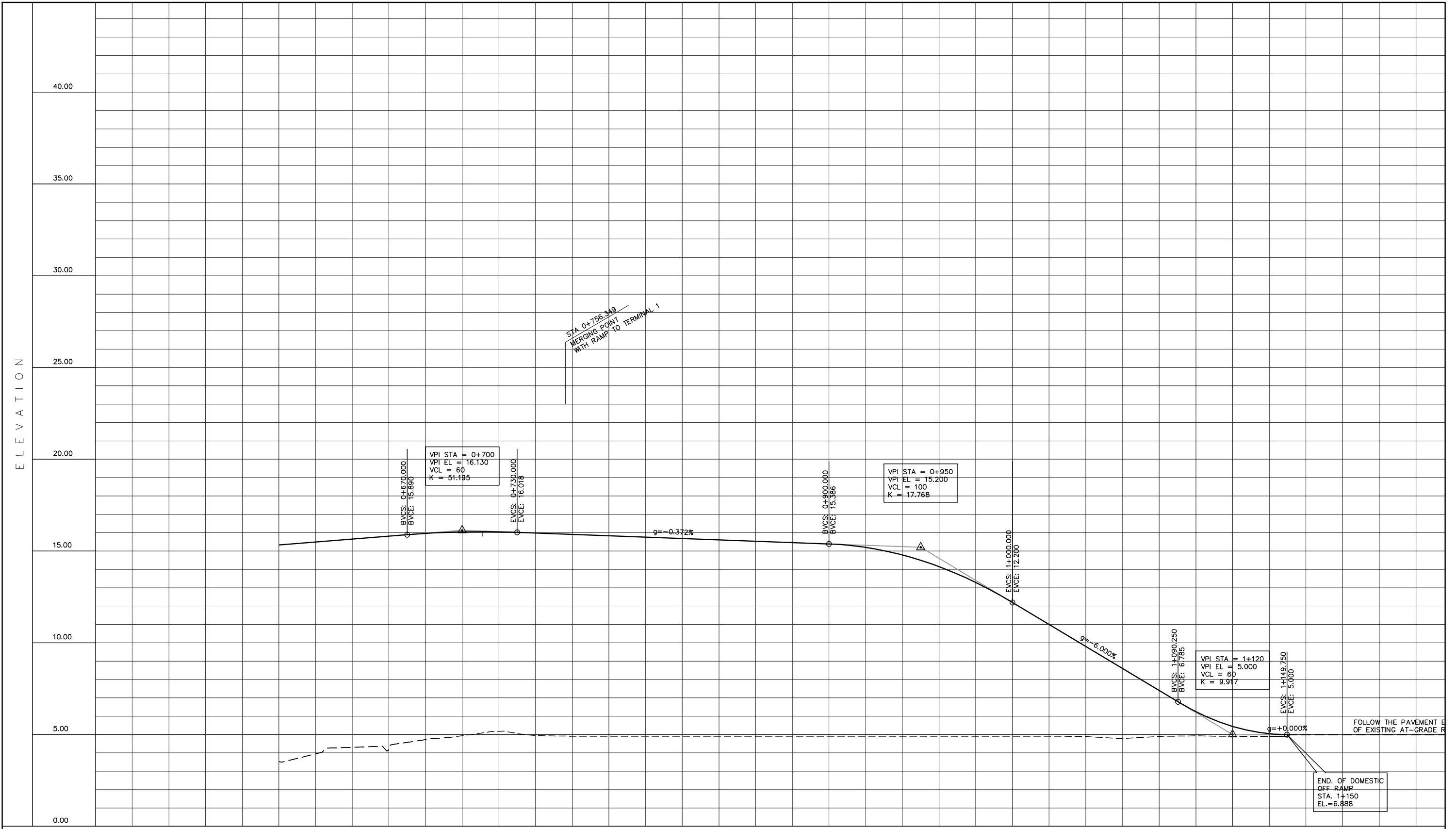


PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	V=200 H=2000	<b>PLAN (2/2)</b> DOMESTIC ROAD OFF RAMP(1) TOWARDS TERMINAL STA. 0+600 - STA. 0+100	<b>F-6</b>
			SHEET NO.
			<b>2 of 2</b>



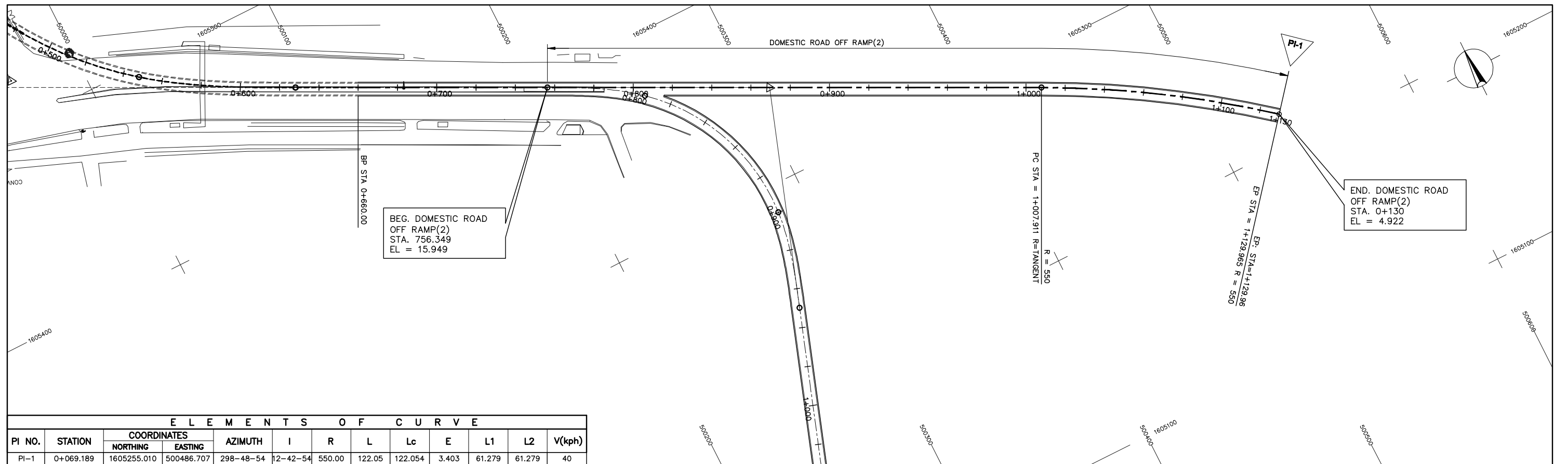
STATION	0+100										0+200										0+300										0+400										0+500										0+600											
FINISHED GRADE ELEVATION	3.192	13.910	3.083	13.910	3.358	13.910	3.341	13.910	2.985	14.023	3.467	14.523	2.994	15.423	2.916	16.610	2.975	17.810	2.862	19.010	2.701	20.210	2.491	21.410	2.907	22.610	2.420	23.510	2.721	23.810	2.764	23.510	2.909	22.610	3.113	21.410	2.824	20.210	2.766	19.010	2.760	17.810	2.724	16.610	2.920	15.519	2.859	14.805	2.597	14.479	2.676	14.530	2.882	14.690	3.062	14.850	3.258	15.010	3.734	15.170	3.524	15.330
EXISTING GROUND ELEVATION	3.192	13.910	3.083	13.910	3.358	13.910	3.341	13.910	2.985	14.023	3.467	14.523	2.994	15.423	2.916	16.610	2.975	17.810	2.862	19.010	2.701	20.210	2.491	21.410	2.907	22.610	2.420	23.510	2.721	23.810	2.764	23.510	2.909	22.610	3.113	21.410	2.824	20.210	2.766	19.010	2.760	17.810	2.724	16.610	2.920	15.519	2.859	14.805	2.597	14.479	2.676	14.530	2.882	14.690	3.062	14.850	3.258	15.010	3.734	15.170	3.524	15.330
VERTICAL CURVATURE	g=+0.000%		LVC=60.00				g=+6.000%						LVC=60.00						g=-6.000%						LVC=60.00						g=+0.800%																															
SUPERELEVATION																																																														

<b>PROJECT TITLE</b>	<b>SCALE</b>	<b>SHEET CONTENT</b>	<b>DRAWING NO.</b>
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PROFILE (1/2) DOMESTIC ROAD OFF RAMP(1) TOWARDS TERMINAL STA. 0+000 - STA. 0+600	F-7
			SHEET NO.
			1 of 2



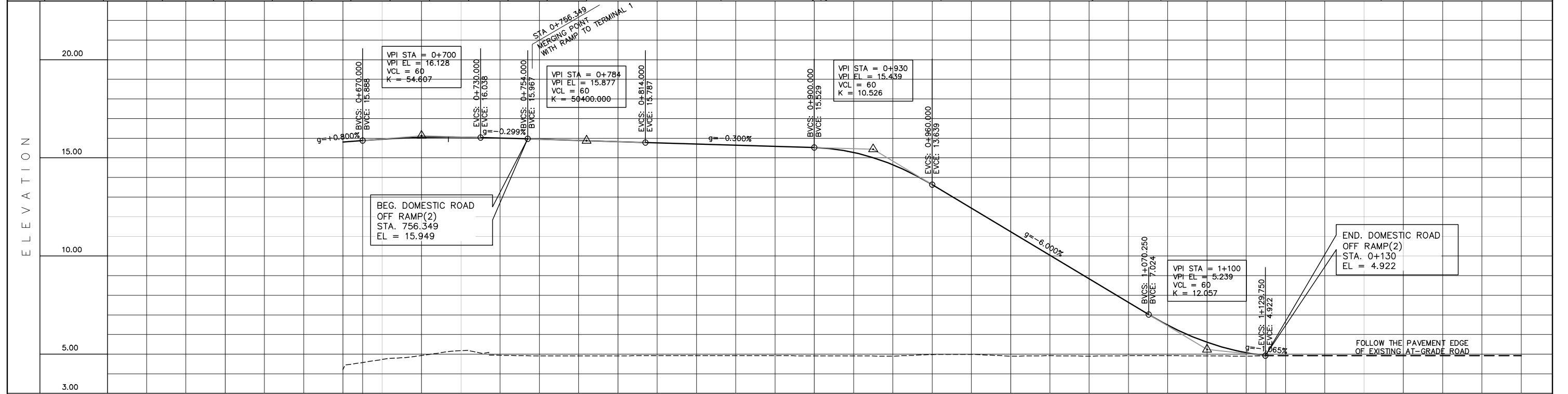
STATION	0+600		0+700		0+800		0+900		1+000		1+100		1+150	
FINISHED GRADE ELEVATION	3.524	15.330	3.946	15.490	4.304	15.650	4.208	15.810	4.728	15.960	4.933	16.042	5.173	16.046
EXISTING GROUND ELEVATION	3.524	15.330	3.946	15.490	4.304	15.650	4.208	15.810	4.728	15.960	4.933	16.042	5.173	16.046
VERTICAL CURVATURE	g=+0.800%		LVC=60.00		g=-0.300%		LVC=60.00		g=-6.000%		LVC=60.00		g=-0.300%	
SUPERELEVATION														

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PROFILE (2/2) DOMESTIC ROAD OFF RAMP(1) TOWARDS TERMINAL STA. 0+800 - STA. 1+150	F-8 SHEET NO. <u>2</u> of <u>2</u>



ELEMENTS OF CURVE

PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+069.189	1605255.010	500486.707	298-48-54	12-42-54	550.00	122.05	122.054	3.403	61.279	61.279	40

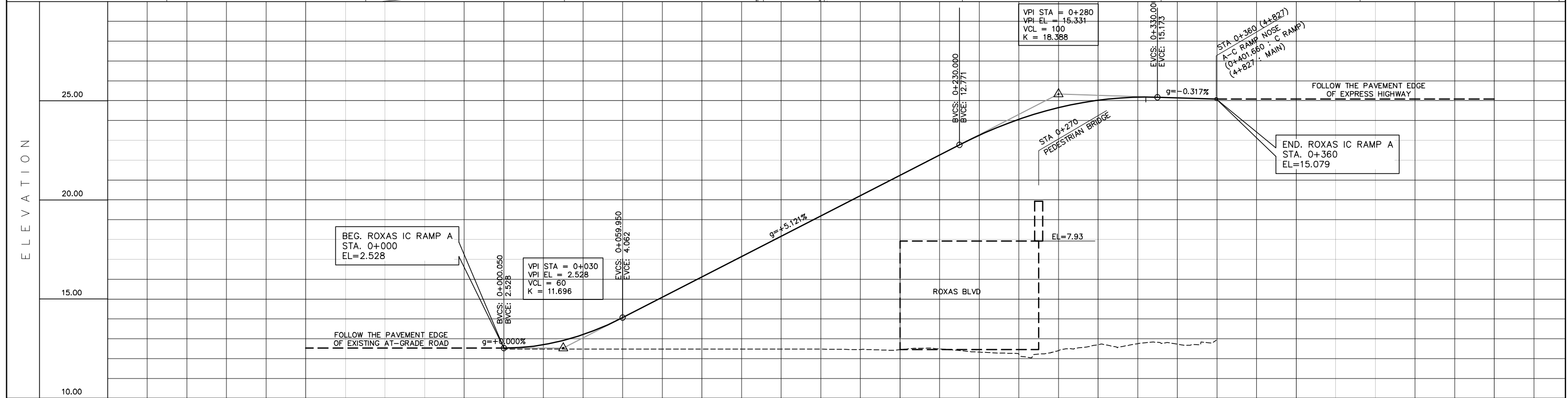
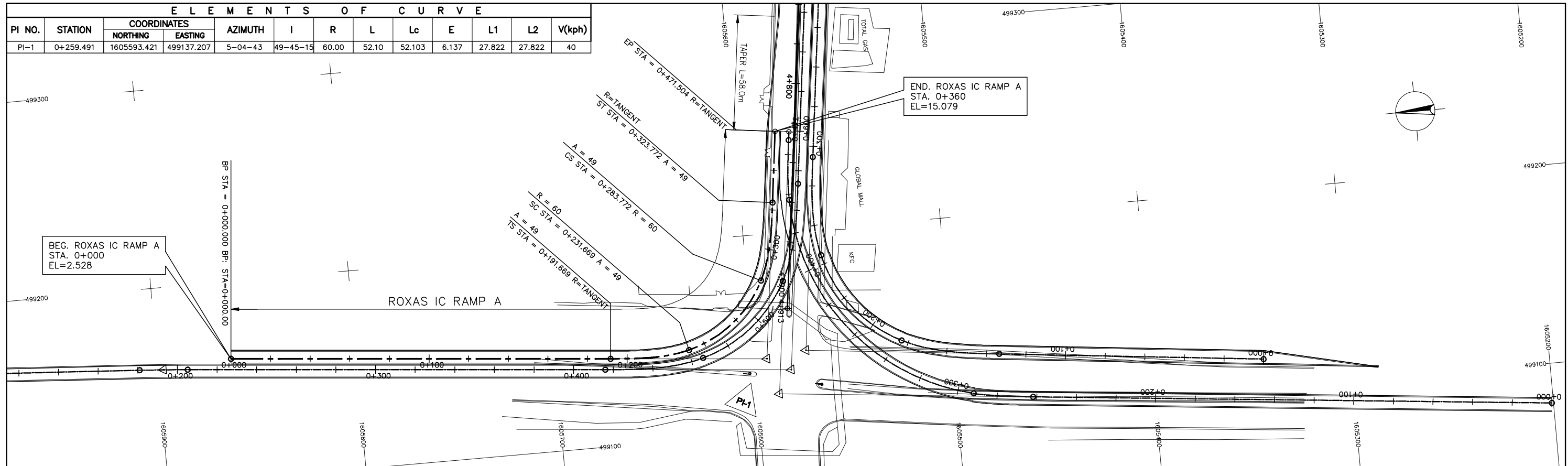


STATION	0+660	0+700	0+800	0+900	1+000	1+100	1+130
FINISHED GRADE ELEVATION	4.208	4.728	4.933	5.173	4.944	4.910	4.910
EXISTING GROUND ELEVATION	15.808	15.959	16.046	16.059	16.008	15.949	15.889
HORIZONTAL CURVATURE							
VERTICAL CURVATURE	g=+0.800%	LVC=60.00	g=-0.229%	LVC=60.00	g=-0.300%	LVC=60.00	g=-6.000%
SUPERELEVATION							

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PLAN AND PROFILE DOMESTIC ROAD OFF RAMP(2) STA. 0+756.349 - STA. 1+130	F-9
			SHEET NO.
			1 of 1



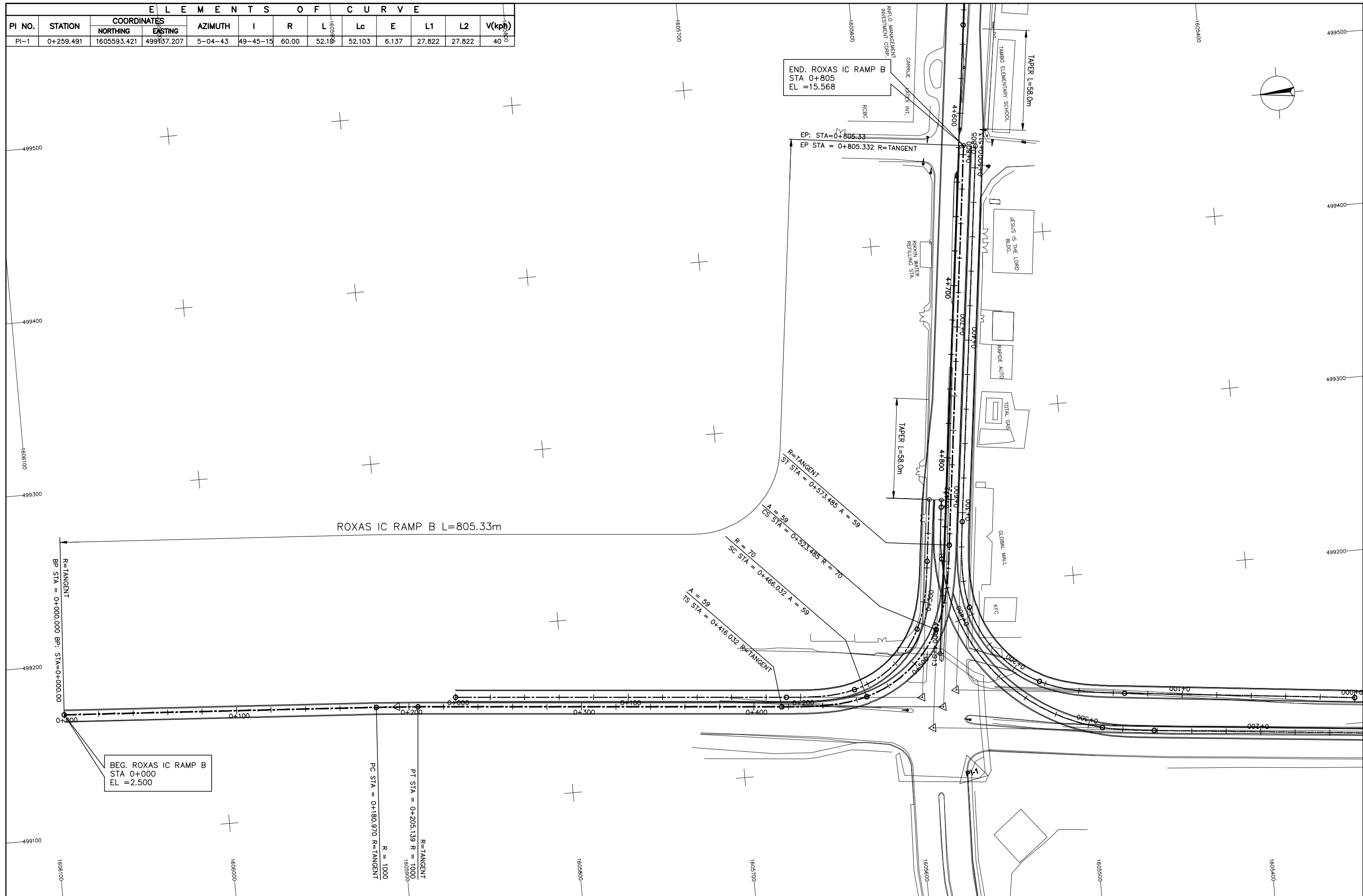
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+259.491	1605593.421	499137.207	5-04-43	49-45-15	60.00	52.10	52.103	6.137	27.822	27.822	40



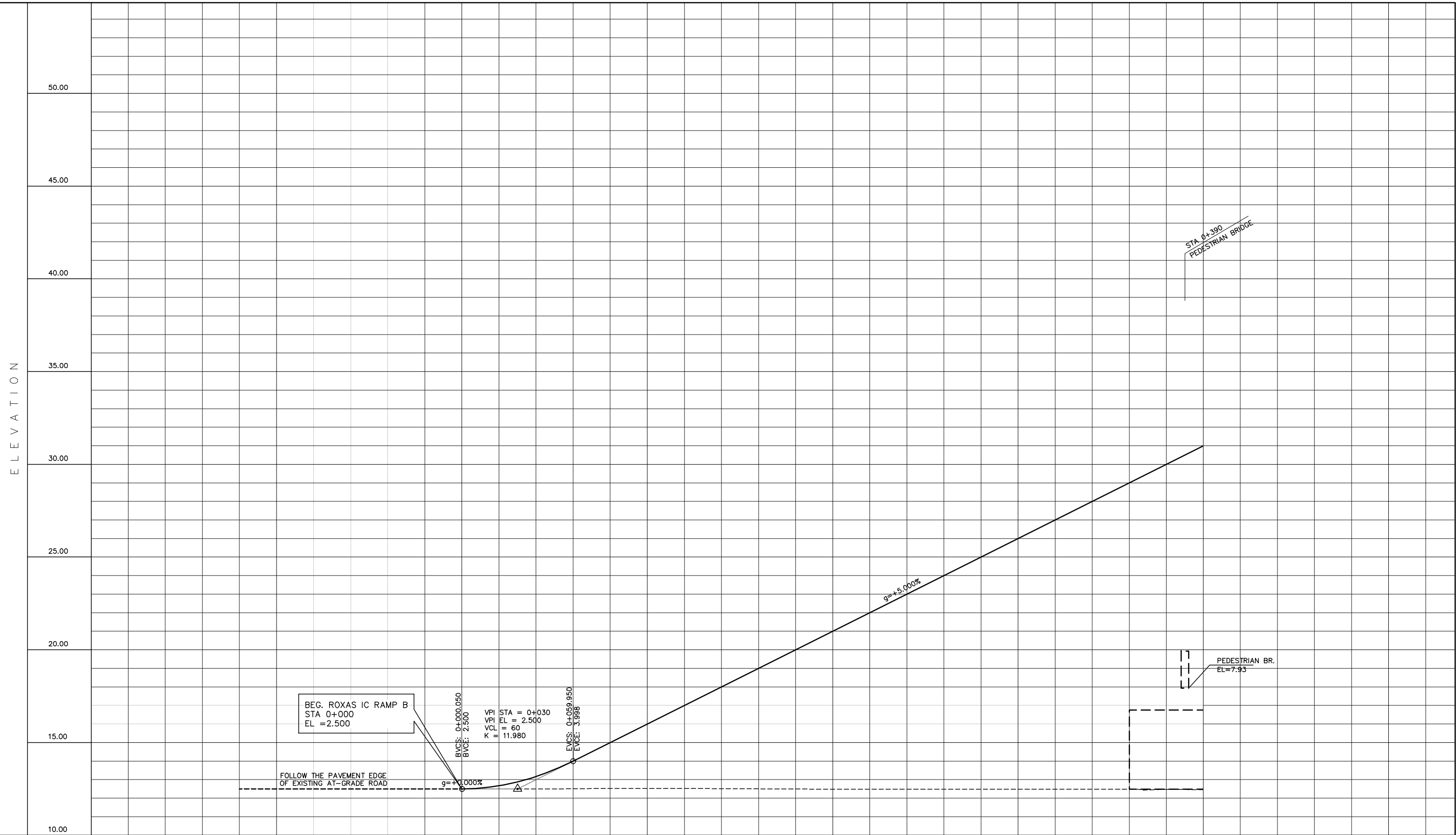
STATION	0+000	0+100	0+200	0+300	0+360															
FINISHED GRADE ELEVATION	2.480	2.698	3.210	4.064	5.089	6.113	7.137	8.161	9.186	10.210	11.234	12.259	13.256	14.062	14.652	15.023	15.177	15.141	15.079	
EXISTING GROUND ELEVATION	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.454	2.451	2.489	2.328	2.219	2.406	2.702	2.755	2.730	2.929	
HORIZONTAL CURVATURE	CS A=49/L=40.000m SC R=60.000 L=52.103 A=49/L=40.000m SC																			
VERTICAL CURVATURE	g = +0.000%		LVC=60.00				g = +5.121%				LVC=100.00				g = -0.317%					
SUPERELEVATION																				

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PLAN AND PROFILE ROXAS BLVD. IC RAMP (A) STA. 0+000 - STA. 0+360	F-10
			SHEET NO.
			1 of 1

ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+259.491	1605593.421	499437.207	5-04-43	49-45-15	60.00	52.10	52.103	6.137	27.822	27.822	40



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	V=200 H=2000	<b>PLAN</b> ROXAS BLVD. IC RAMP (B) STA. 0+000 - STA. 0+805	<b>F-11</b>
			SHEET NO.
			<b>1 of 1</b>



BEG. ROXAS IC RAMP B  
STA 0+000  
EL =2.500

BVC: 0+000.050  
BYCE: 2.500

VPI STA = 0+030  
VPI EL = 2.500  
K = 60  
L = 11.980

EVC: 0+059.950  
EVC EL: 3.998

FOLLOW THE PAVEMENT EDGE  
OF EXISTING AT-GRADE ROAD

g=+0.000%

LVC=60.00

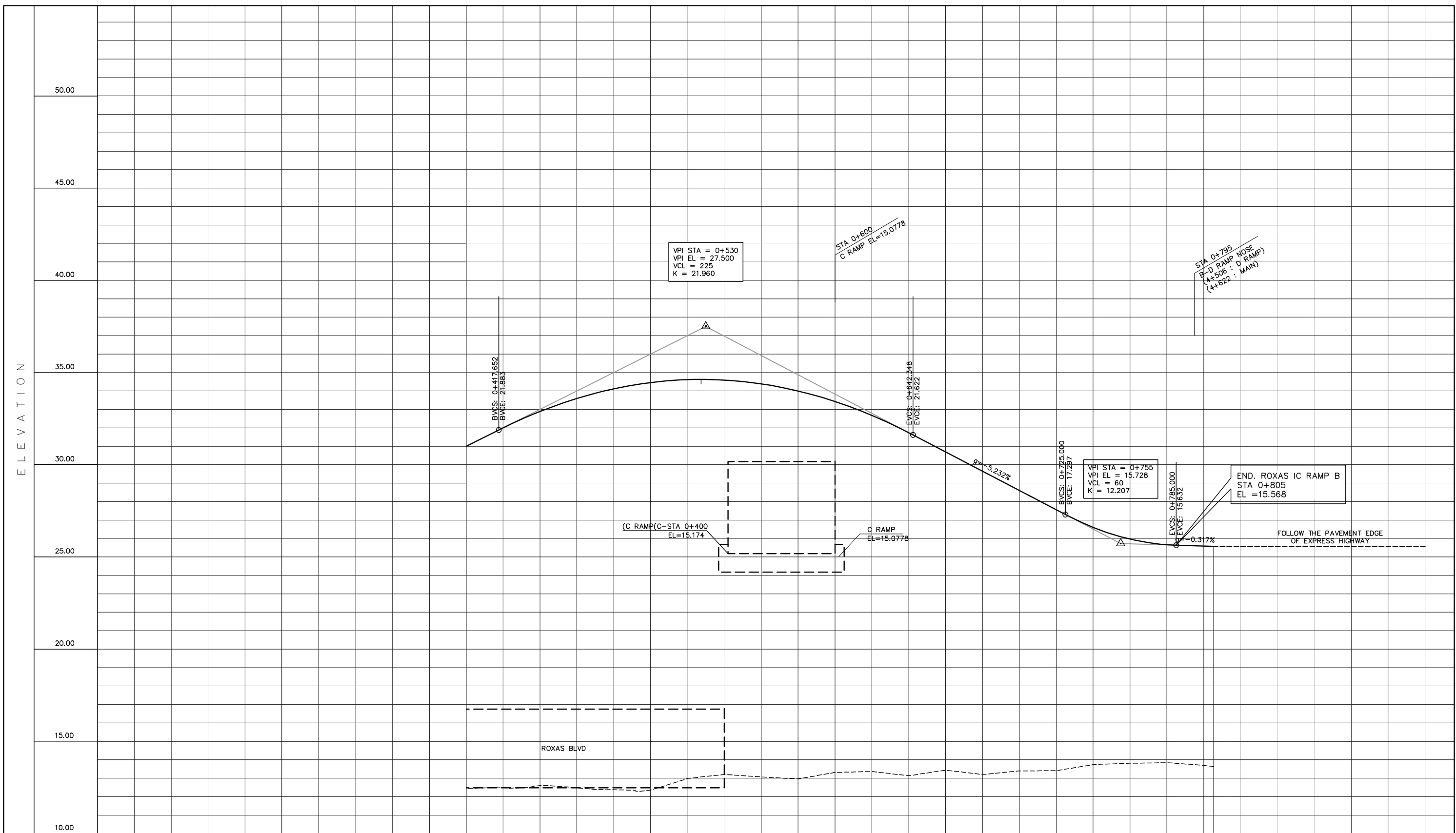
g=+5.000%

STA 0+390  
PEDESTRIAN BRIDGE

PEDESTRIAN BR.  
EL=7.93

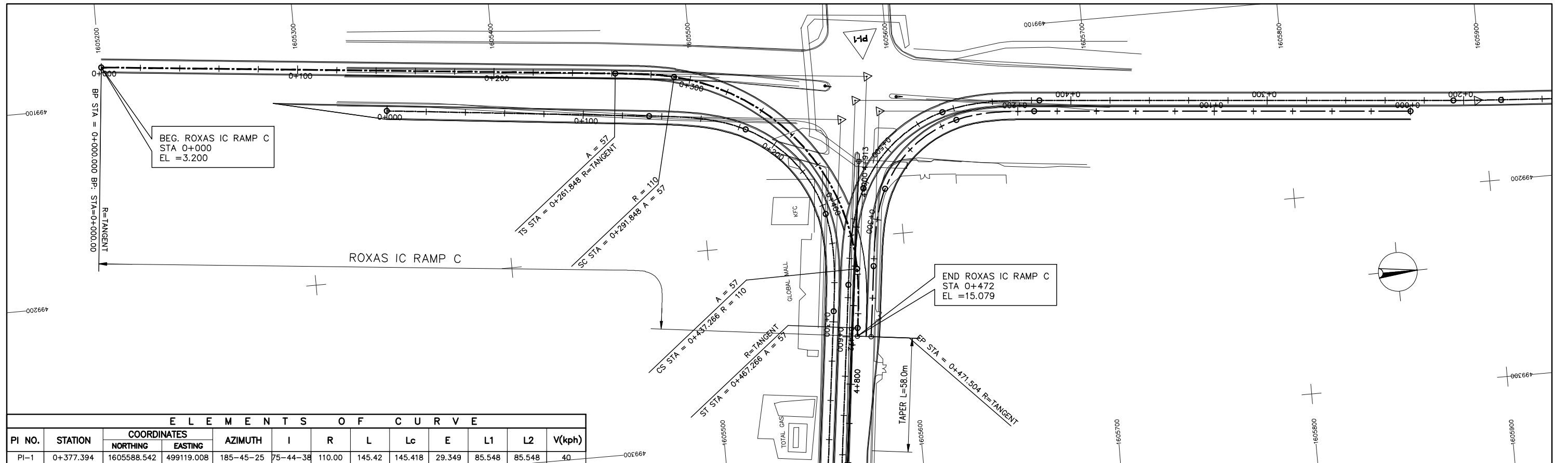
STATION	0+000	0+010	0+020	0+030	0+040
FINISHED GRADE ELEVATION	2.500	2.666	3.166	4.000	5.000
EXISTING GROUND ELEVATION	2.501	2.501	2.501	2.506	2.517
VERTICAL CURVATURE	g=+0.000% LVC=60.00			g=+5.000%	
SUPERELEVATION					

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PROFILE (1/2) ROXAS BLVD. IC RAMP (B) STA. 0+000 - STA. 0+400	F-12
			SHEET NO.
			1 of 2



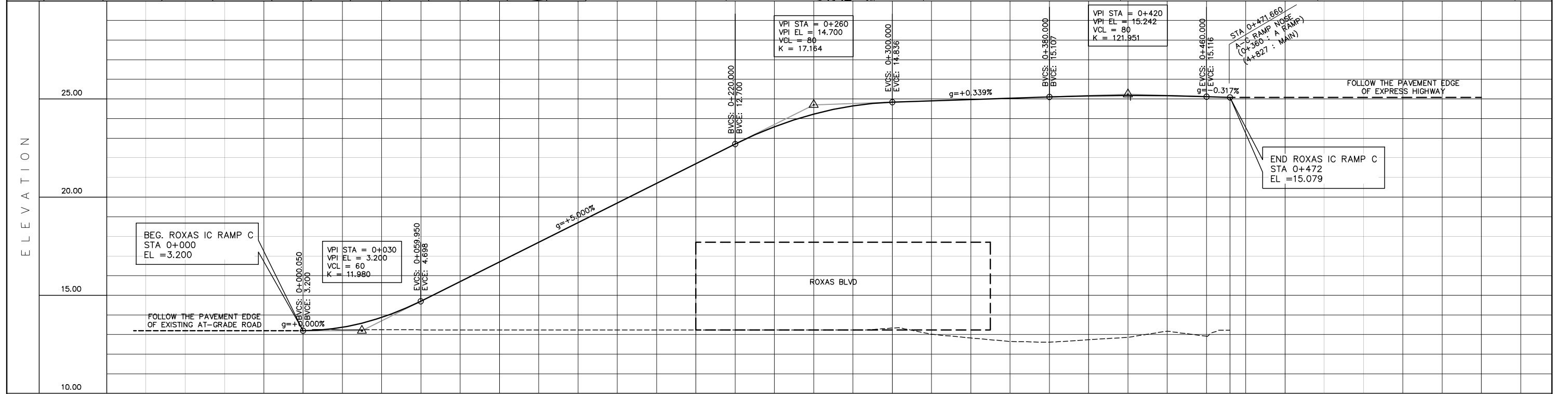
STATION	0+400					0+500												0+700							0+800 0+805	
FINISHED GRADE ELEVATION	21.000	21.999	22.886	23.592	24.115	24.456	24.615	24.592	24.386	23.999	23.429	22.677	21.743	20.698	19.652	18.605	17.559	16.605	15.968	15.659	15.568	15.568			15.568	
EXISTING GROUND ELEVATION	2.460	2.480	2.605	2.483	2.375	2.352	2.984	3.208	3.069	2.963	3.316	3.367	3.137	3.439	3.204	3.402	3.404	3.739	3.812	3.844	3.701	3.640			3.640	
VERTICAL CURVATURE	g = +5.000%		LVC = 225.00														g = +5.000%		LVC = 60.00		g = -0.317%					
SUPERELEVATION																										

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PROFILE (2/2) ROXAS BLVD. IC RAMP (B) STA. 0+400 - STA. 0+805	F-13
			SHEET NO.
			2 OF 2



ELEMENTS OF CURVE

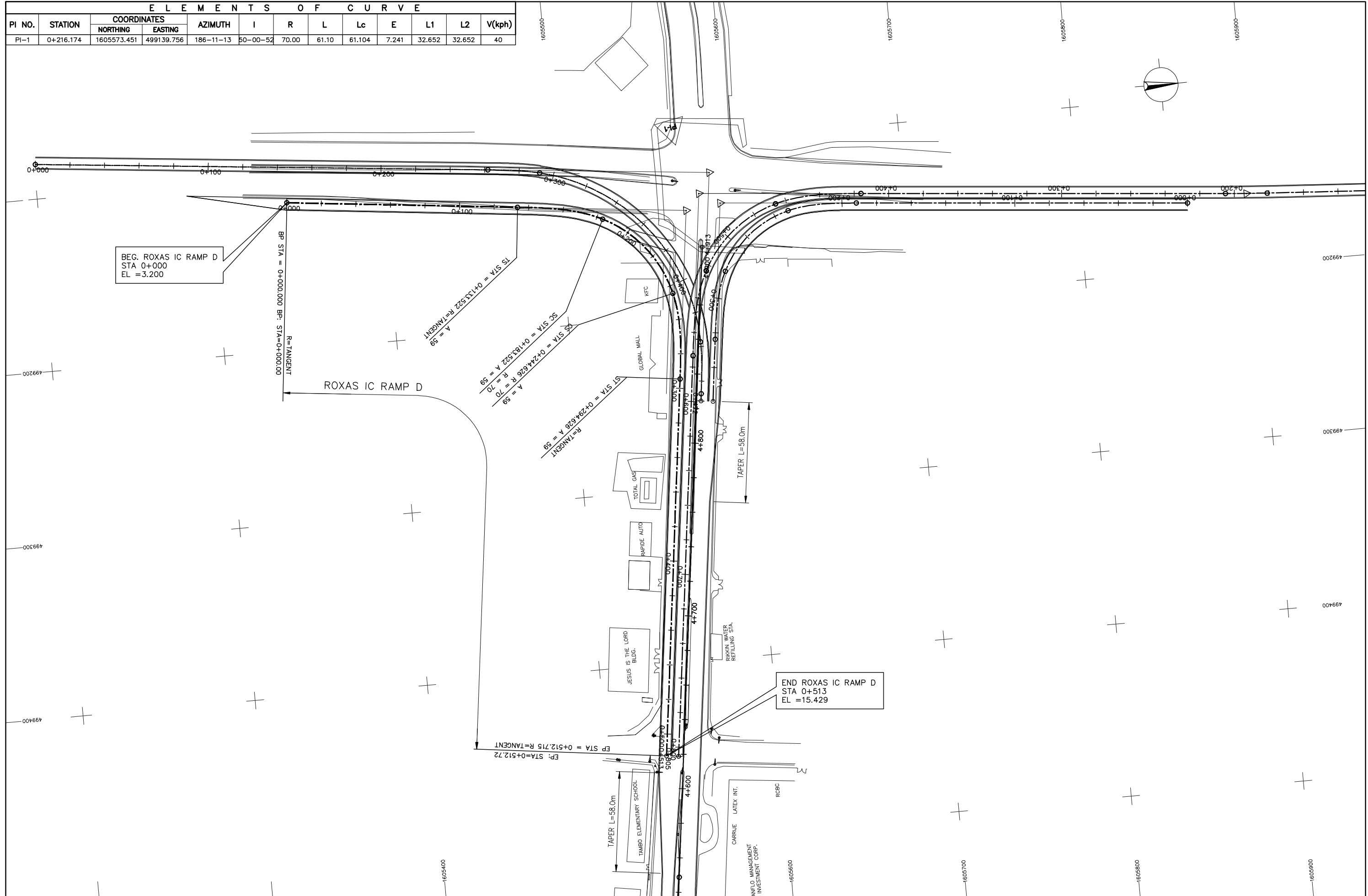
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+377.394	1605588.542	499119.008	185-45-25	75-44-38	110.00	145.42	145.418	29.349	85.548	85.548	40



STATION	0+100	0+200	0+300	0+400	0+472																					
FINISHED GRADE ELEVATION	3.200	3.566	3.866	4.700	5.700	6.700	7.700	8.700	9.700	10.700	11.700	12.700	13.583	14.234	14.651	14.836	14.903	14.971	15.039	15.107	15.158	15.177	15.163	15.116	15.079	
EXISTING GROUND ELEVATION		3.235	3.245	3.237	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.327	3.014	2.821	2.646	2.604	2.734	2.856	3.172	2.909		
HORIZONTAL CURVATURE																										
VERTICAL CURVATURE	g = +0.000%	LVC=60.00				g = +5.000%							LVC=80.00			g = +0.339%					LVC=80.00				g = -0.317%	
SUPERELEVATION																										

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PLAN AND PROFILE ROXAS BLVD. IC RAMP (C) STA. 0+000 - STA. 0+472	F-14
			SHEET NO.
			1 of 1

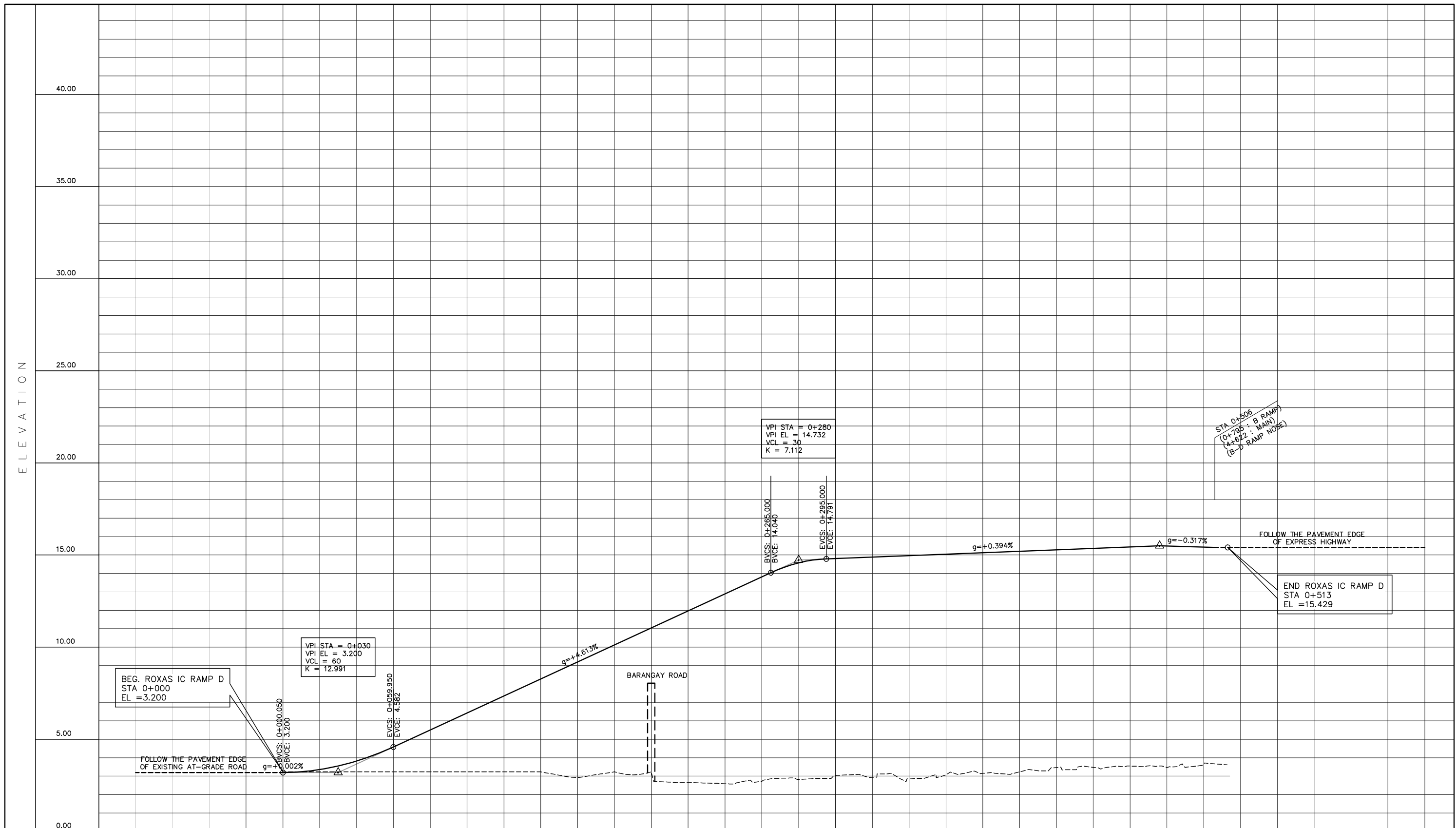
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
PI-1	0+216.174	1605573.451	499139.756	186-11-13	50-00-52	70.00	61.10	61.104	7.241	32.652	32.652	40



BEG. ROXAS IC RAMP D  
 STA 0+000  
 EL = 3.200

END ROXAS IC RAMP D  
 STA 0+513  
 EL = 15.429

PROJECT TITLE <b>NAIA EXPRESSWAY PHASE II</b>	SCALE V=200 H=2000	SHEET CONTENT <b>PLAN</b> ROXAS BLVD. IC RAMP (D) STA. 0+000 - STA. 0+513	DRAWING NO. <b>F-15</b>
			SHEET NO. <b>1 of 1</b>



BEG. ROXAS IC RAMP D  
STA 0+000  
EL = 3.200

VPI STA = 0+030  
VPI EL = 3.200  
VCL = 60  
K = 12.991

VPI STA = 0+280  
VPI EL = 14.732  
VCL = 30  
K = 7.112

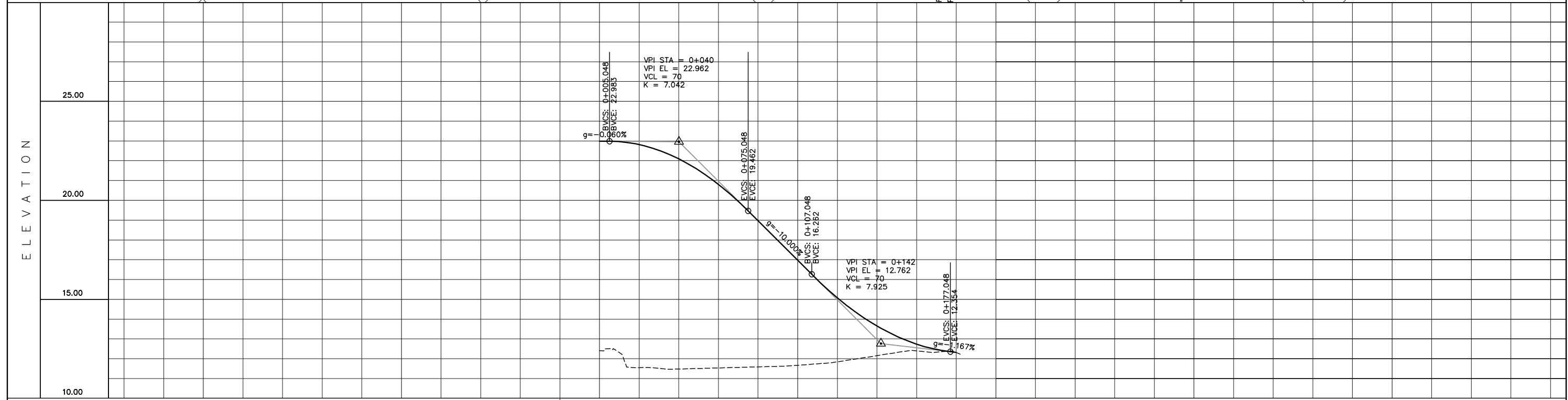
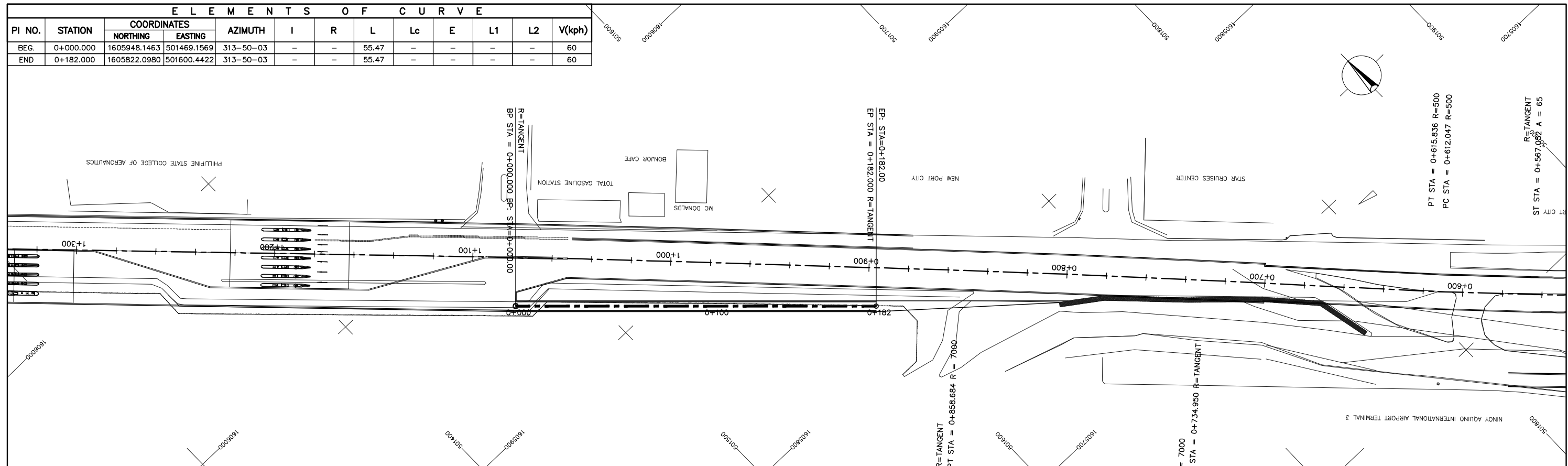
STA 0+506  
(0+495 : B RAMP)  
(+522 : MAIN)  
(B-D RAMP NOBEL)

END ROXAS IC RAMP D  
STA 0+513  
EL = 15.429

STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+513																					
FINISHED GRADE ELEVATION	3.200	3.354	3.815	4.584	5.507	6.429	7.352	8.274	9.197	10.119	11.042	11.964	12.887	13.809	14.732	14.811	14.890	14.969	15.047	15.126	15.205	15.284	15.363	15.442	15.492	15.429	3.613	
EXISTING GROUND ELEVATION	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.229	3.230	3.230	2.651	2.587	2.717	2.814	3.022	2.932	2.853	3.056	3.148	3.232	3.462	3.479	3.544	3.466	3.659	3.613	
VERTICAL CURVATURE	g = +0.002%		LVC = 60.00		g = +4.613%				LVC = 30.00			g = +0.394%				g = -0.317%												
SUPERELEVATION																												

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	V=200 H=2000	PROFILE ROXAS BLVD. IC RAMP (D) STA. 0+000 - STA. 0+513	F-16
			SHEET NO.
			1 of 1

PI NO.	STATION	COORDINATES		AZIMUTH	I	R	L	Lc	E	L1	L2	V(kph)
		NORTHING	EASTING									
BEG.	0+000.000	1605948.1463	501469.1569	313-50-03	-	-	55.47	-	-	-	-	60
END	0+182.000	1605822.0980	501600.4422	313-50-03	-	-	55.47	-	-	-	-	60



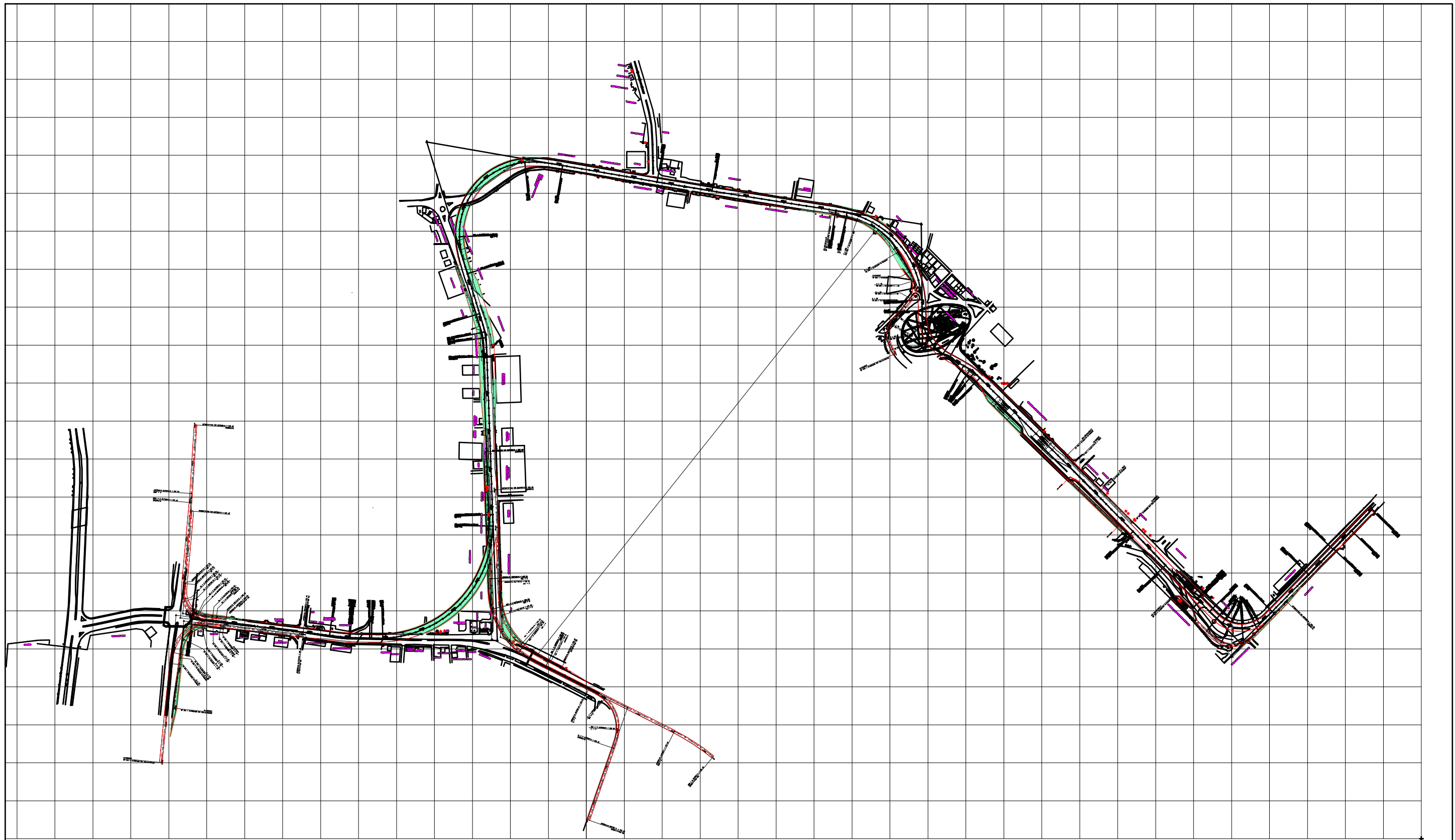
STATION	0+000	0+100	0+200	0+240																					
FINISHED GRADE ELEVATION	12.409	22.986	11.544	22.815	11.479	22.095	11.533	20.806	11.587	18.967	11.669	16.967	11.841	15.073	12.154	13.652	12.390	12.736	12.309	12.319					
EXISTING GROUND ELEVATION																									
HORIZONTAL CURVATURE																									
VERTICAL CURVATURE	g = -0.300%					LVC = 70.00					g = -10.000%					LVC = 70.00					g = -1.167%				
SUPERELEVATION																									

<b>PROJECT TITLE</b>	<b>SCALE</b>	<b>SHEET CONTENT</b>	<b>DRAWING NO.</b>
<b>NAIA EXPRESSWAY PHASE II</b>	V = 200 H = 2000	<b>PLAN AND PROFILE</b> OVERLOADED VEHICLE EXIT STA. 0+000 - STA. 0+182	<b>E-17</b>
			<b>SHEET NO.</b>
			<b>1 of 1</b>

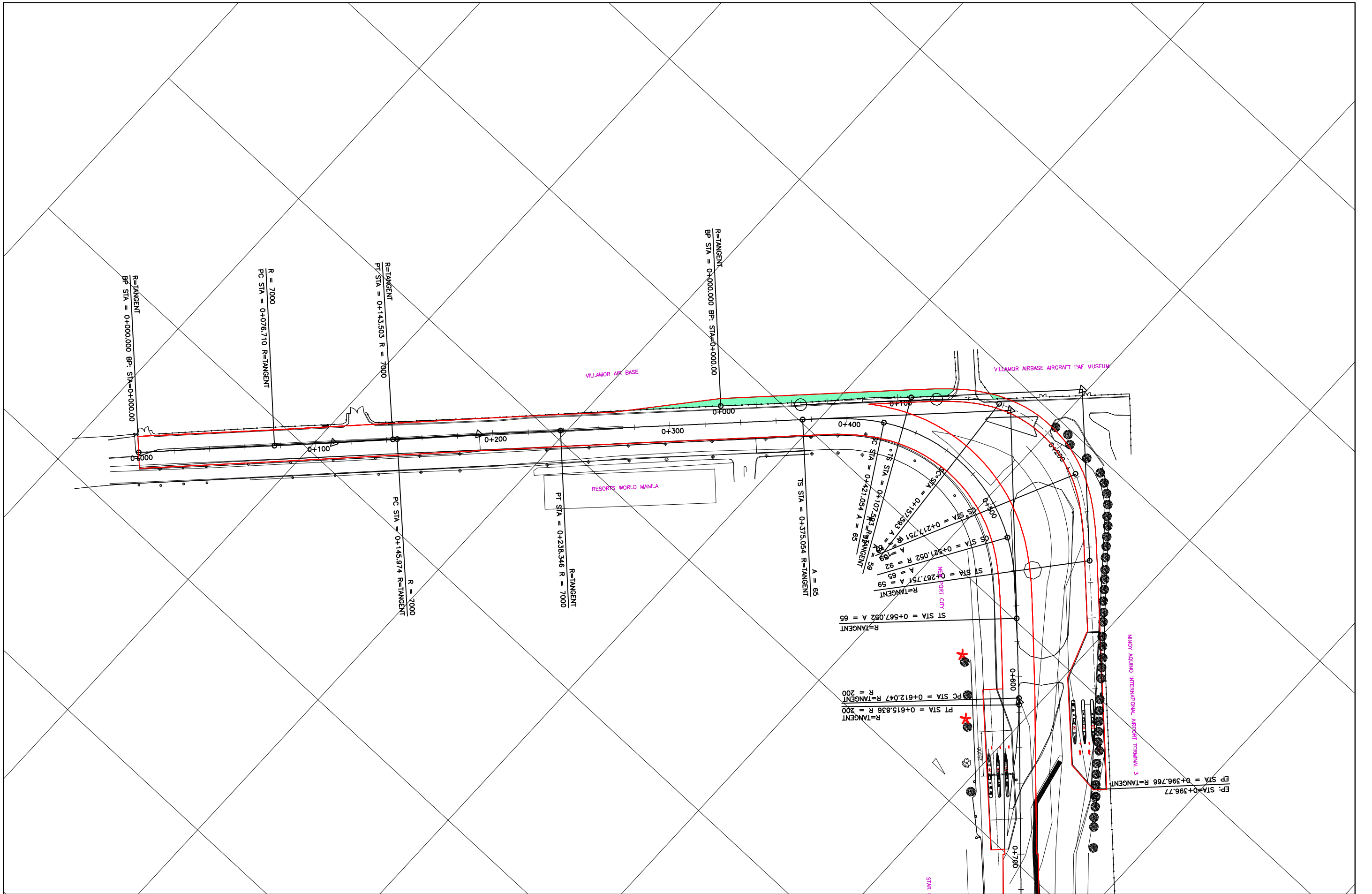


# G. RIGHT OF WAY

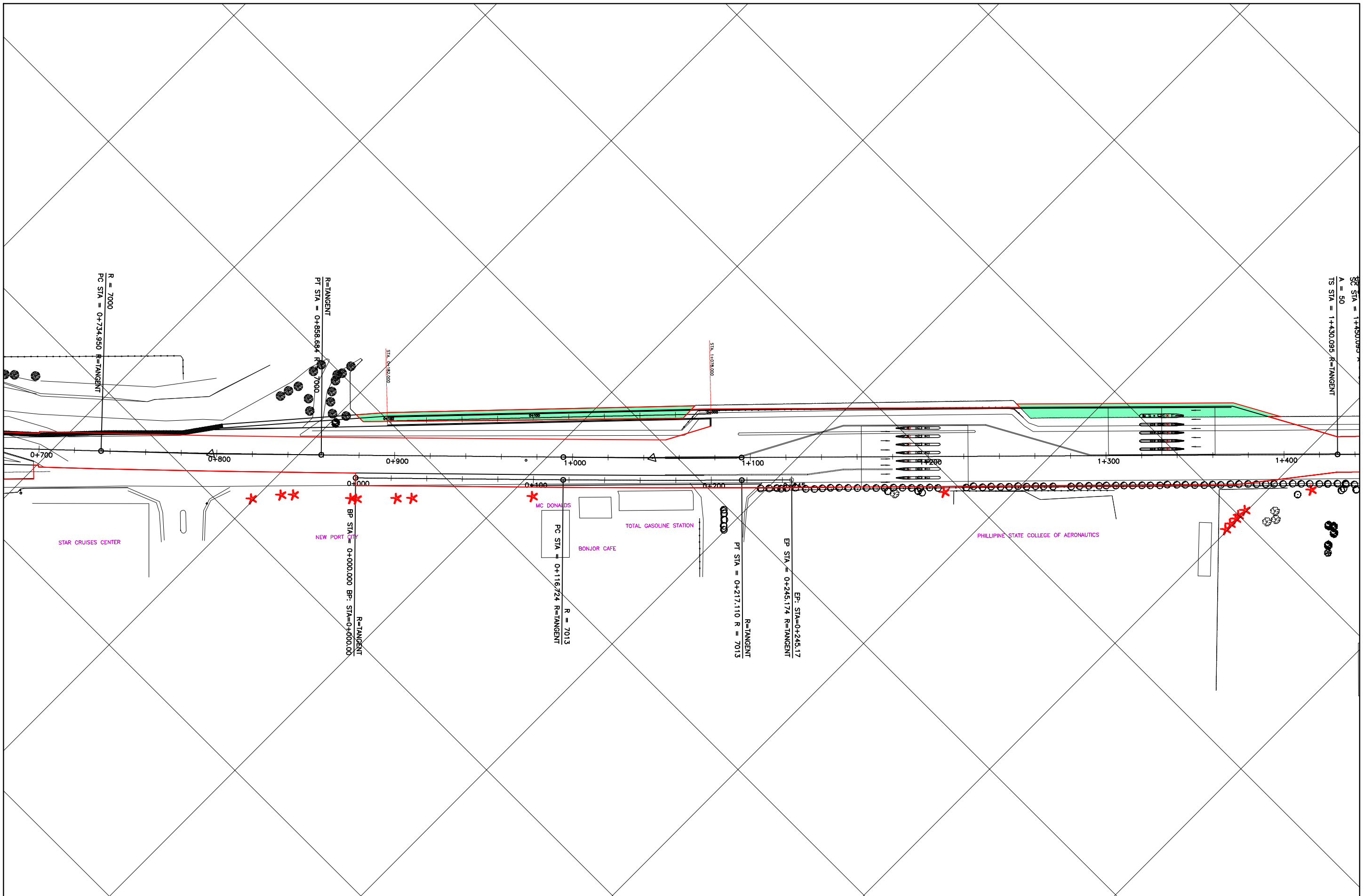
NAIA EXPRESSWAY PHASE II



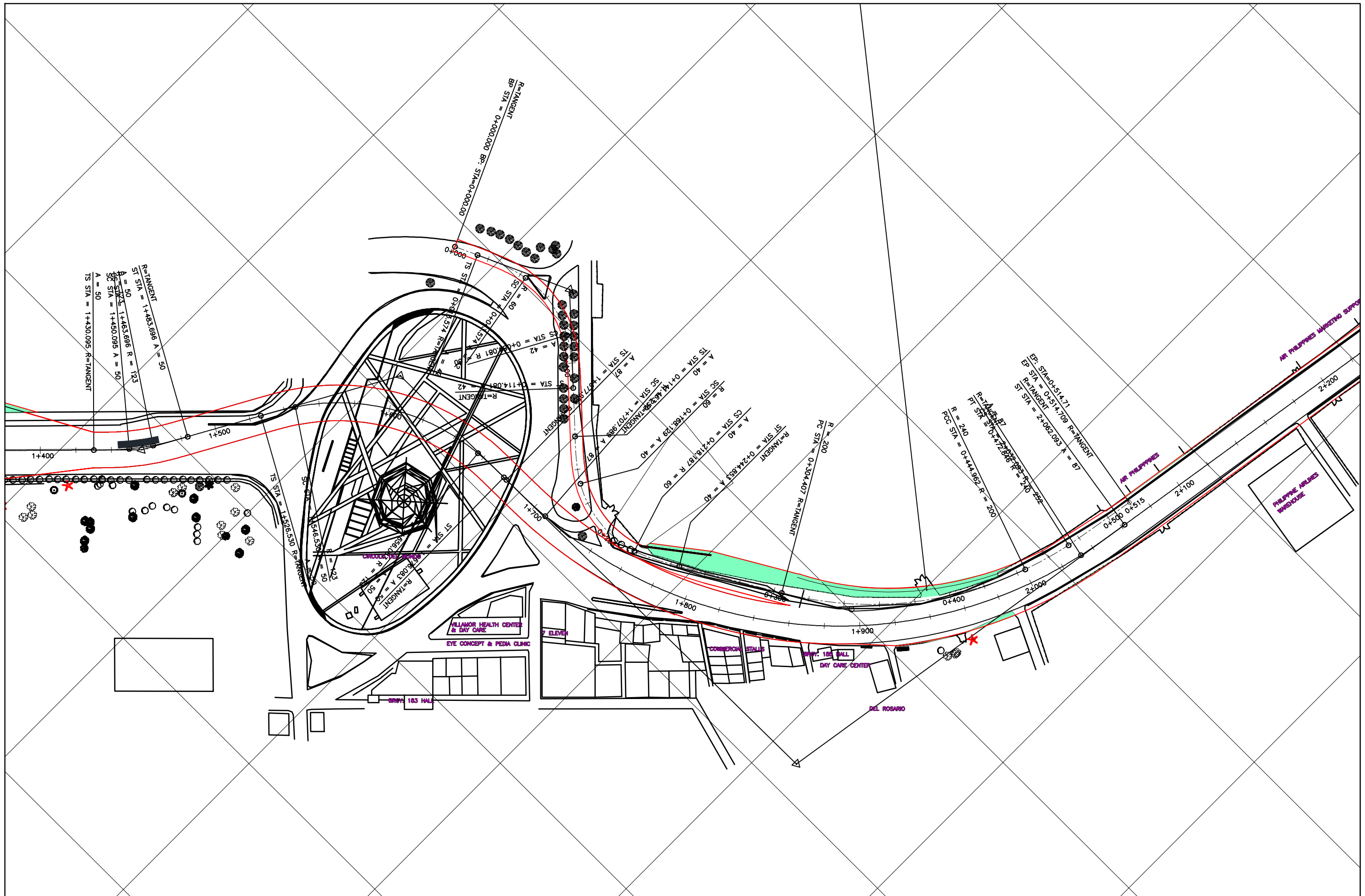
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	H=10,000	<b>R.O.W Index Map</b>	<b>G-1</b> SHEET NO. <u>1</u> of <u>11</u>



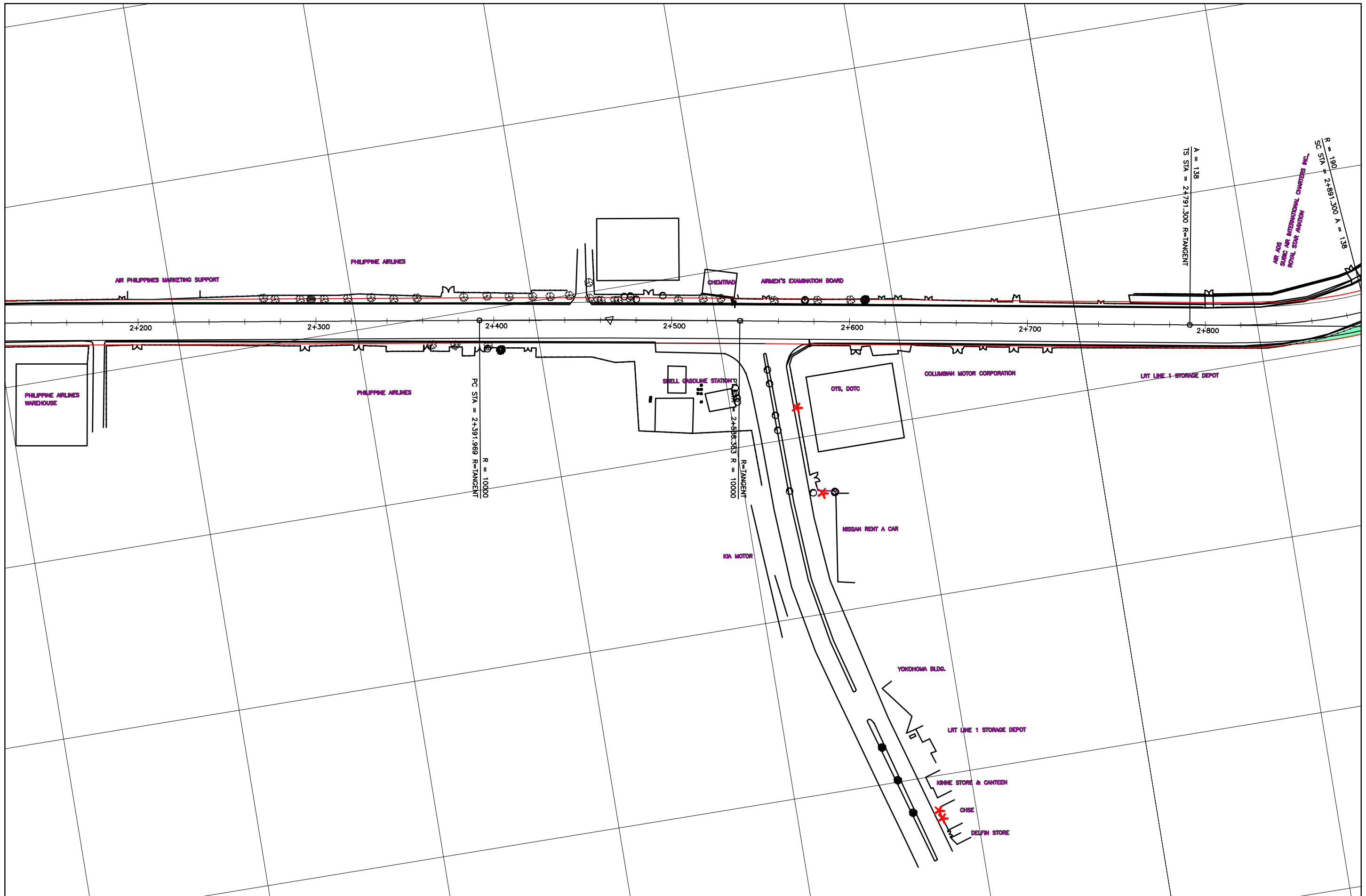
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	1:2000	<b>R.O.W(1)</b>	<b>G-2</b>
			SHEET NO.
			<u>2</u> OF <u>11</u>



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(2)	G-3
			SHEET NO.
			3 OF 11



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W(3)	G-4
			SHEET NO.
			4 OF 11



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(4)	G-5
			SHEET NO.
			5 OF 11



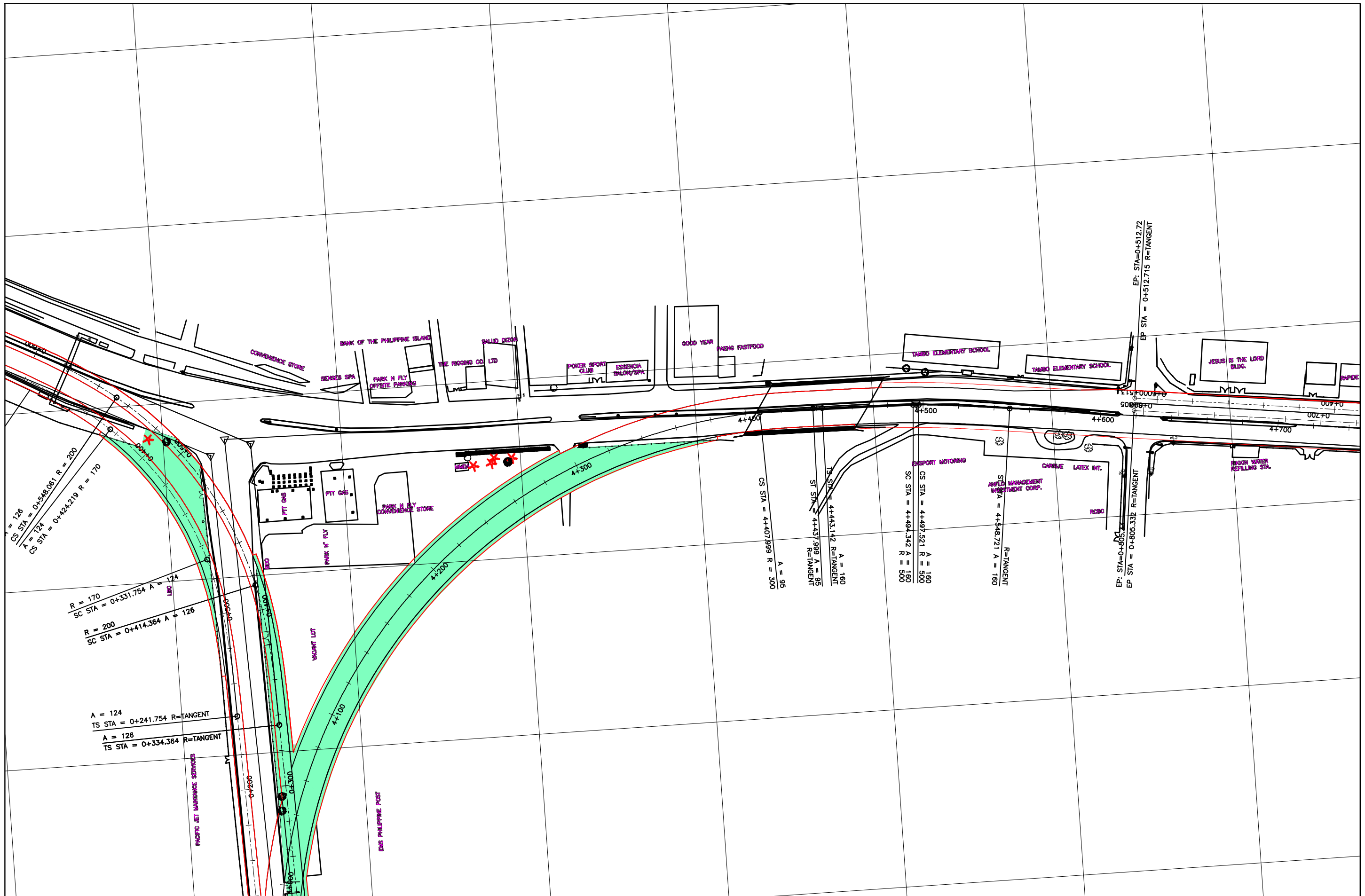


PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W(5)	G-6
			SHEET NO.
			6 OF 11

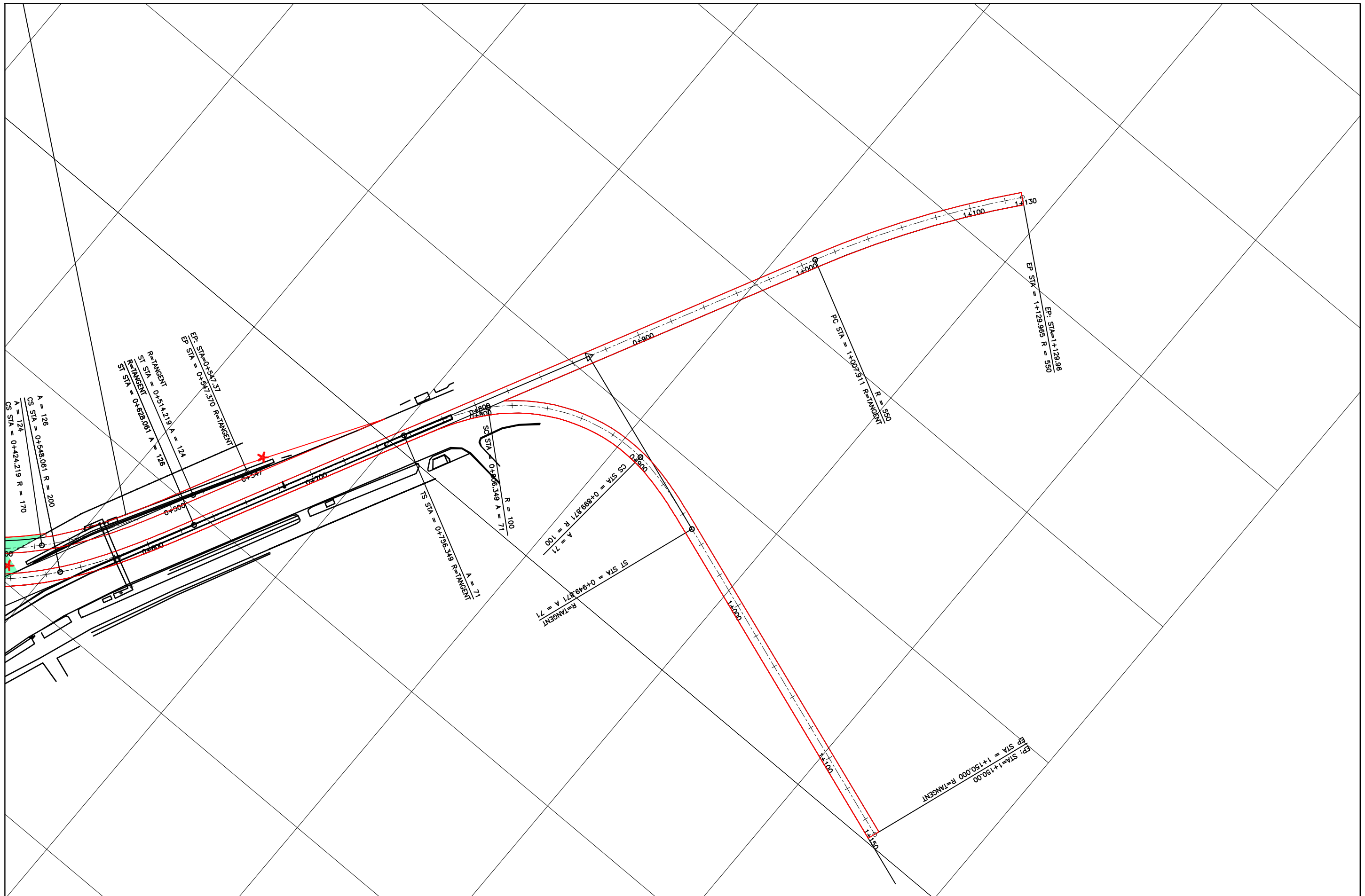


PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(6)	G-7
			SHEET NO.
			7 OF 11

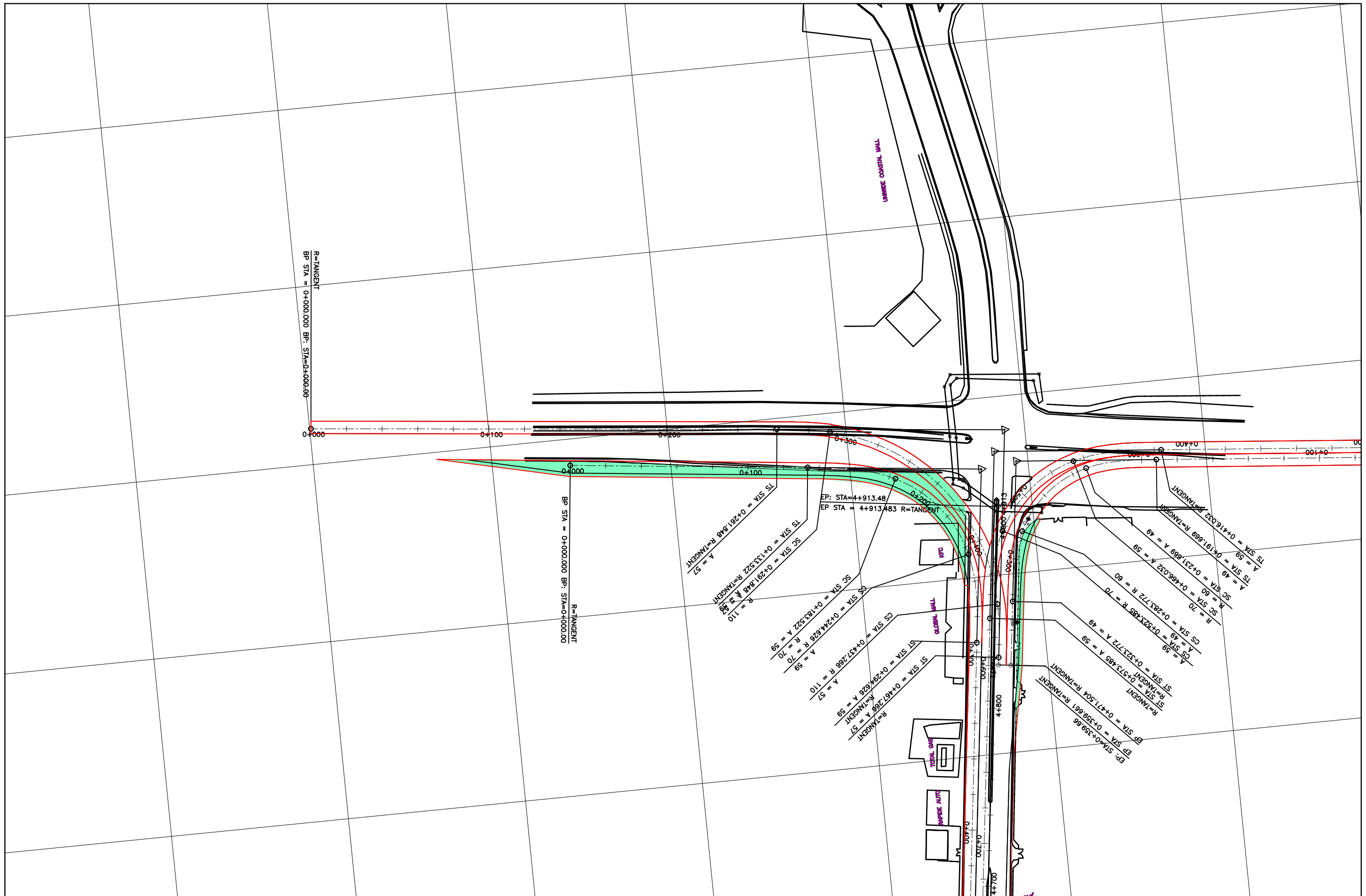




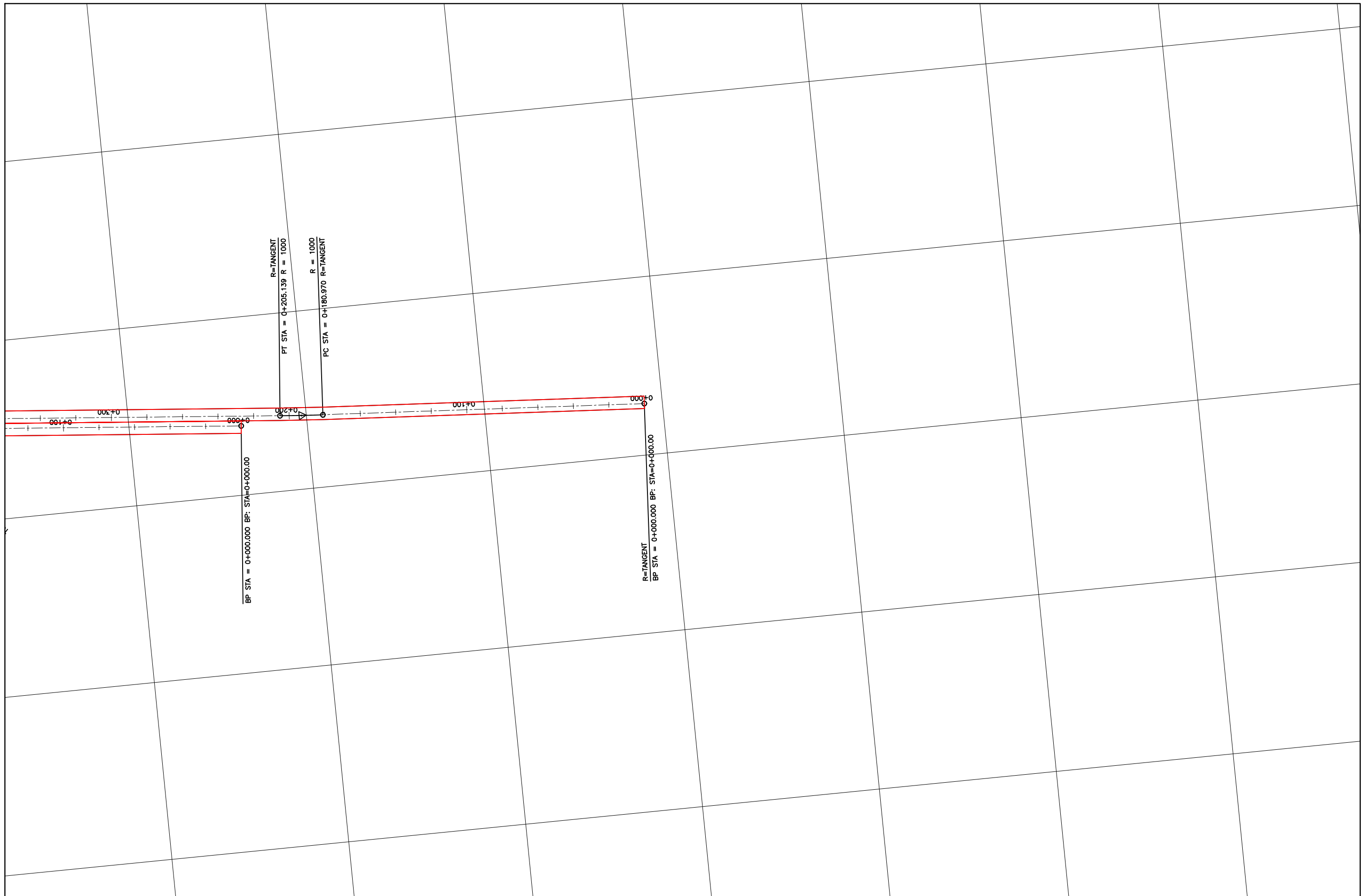
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(7)	G-8
			SHEET NO.
			8 OF 11



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(7a)	G-9
			SHEET NO.
			9 OF 11



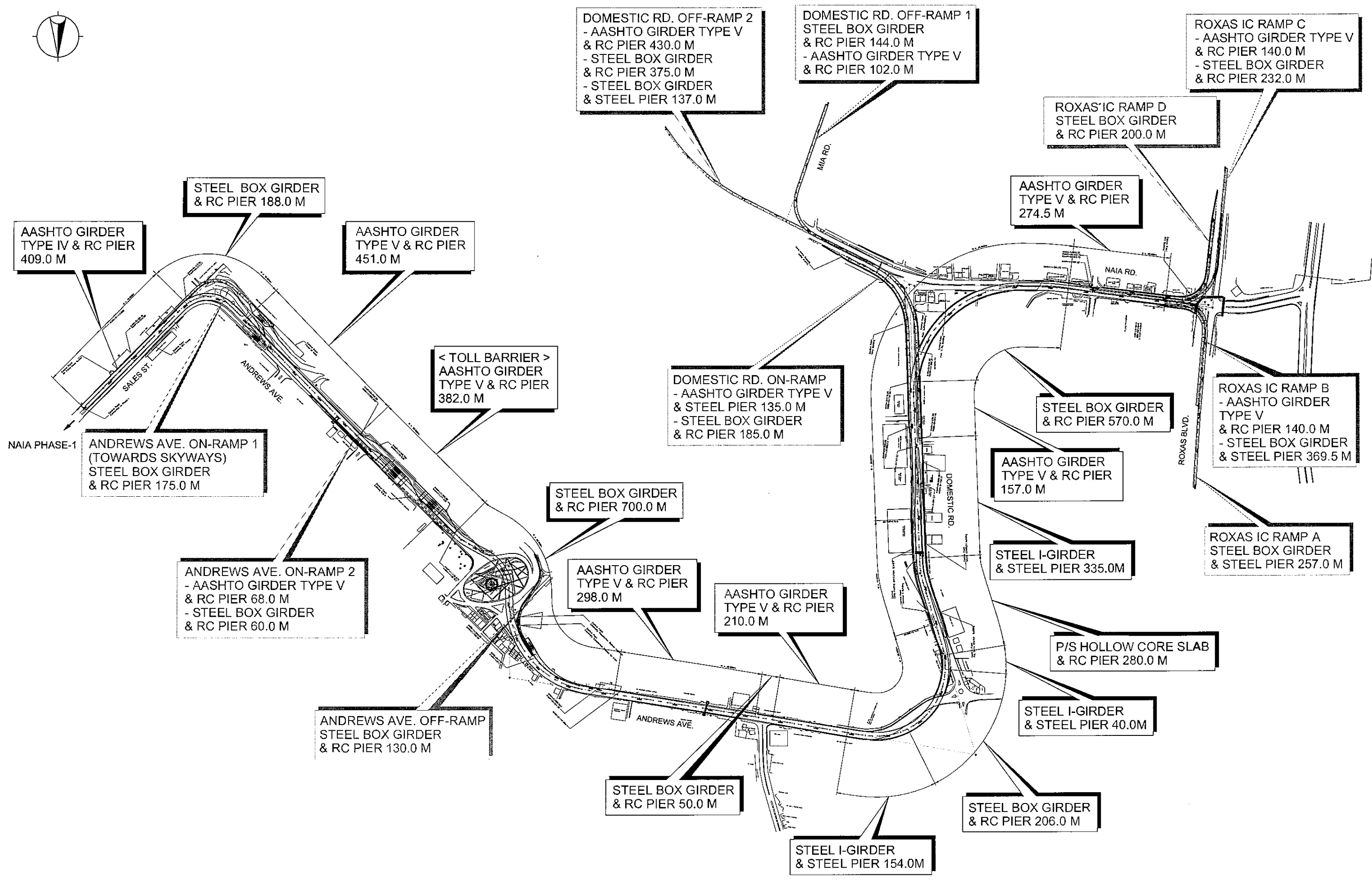
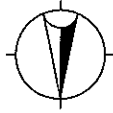
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	<b>1:2000</b>	<b>R.O.W(8)</b>	<b>G-10</b>
			SHEET NO.
			10 OF 11



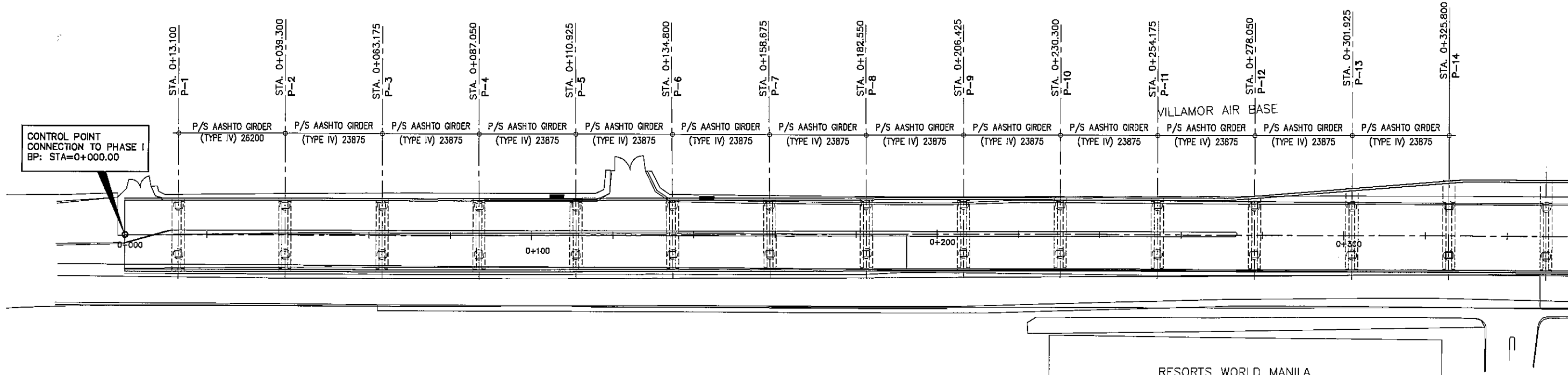
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	1:2000	R.O.W.(9)	G-11
			SHEET NO.
			11 OF 11

# H. GENERAL PLAN AND ELEVATION MAIN BRIDGE

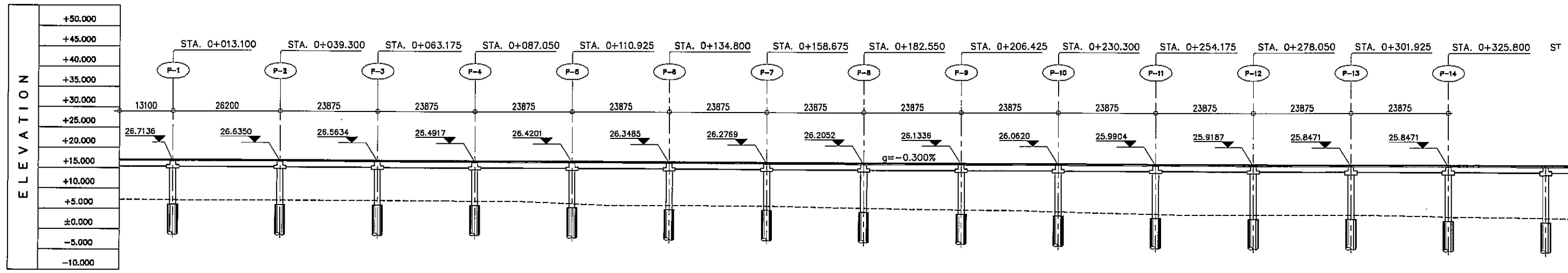
NAIA EXPRESSWAY PHASE II



PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	INDEX MAP FOR STRUCTURE TYPE (MAIN VIADUCT)	H-01
			SHEET NO.
			1 OF 1



**GENERAL PLAN**  
SCALE 1:1000



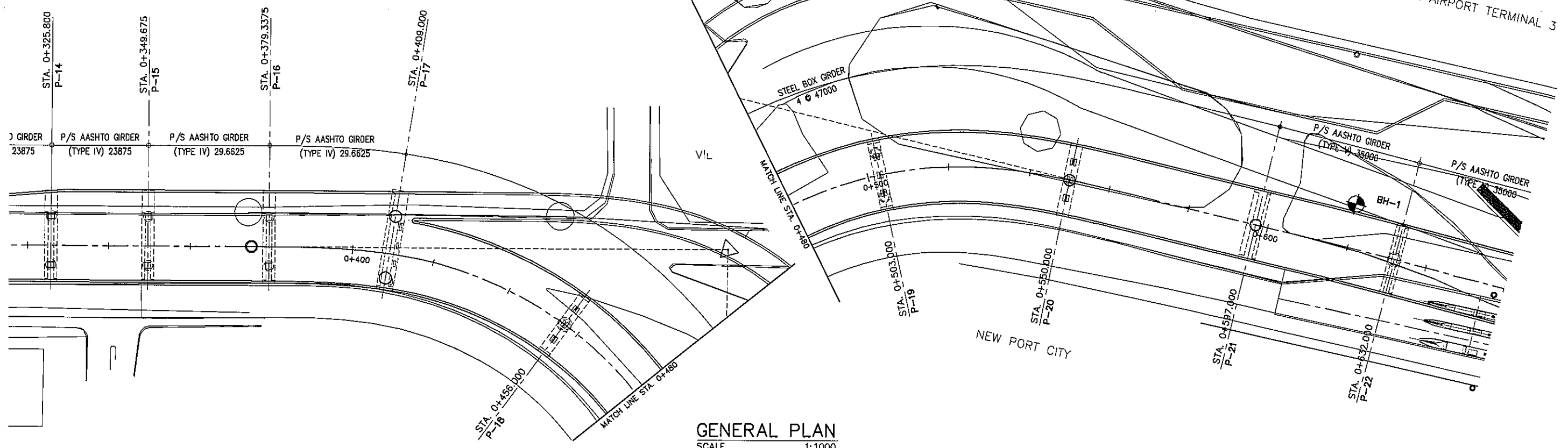
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	0 + 000	+ 100										+ 200										+ 300			
FINISHED GRADE ELEVATION	27.095	26.875	26.915	26.855	26.795	26.735	26.675	26.615	26.555	26.495	26.435	26.375	26.315	26.255	26.195	26.135	26.075	26.015							
EXISTING GROUND ELEVATION	17.240	17.000	17.000	17.000	17.000	16.810	16.001	16.000	15.915	15.540	15.176	14.950	14.400	14.000	14.000	14.000	13.890	13.210							

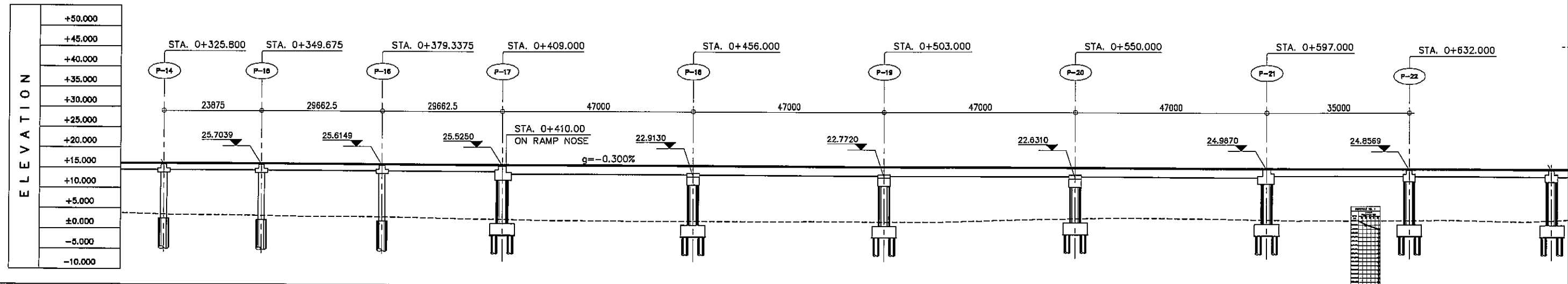
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-02
			SHEET NO.
			1 OF 16



AQUINO INTERNATIONAL AIRPORT TERMINAL 3



GENERAL PLAN  
SCALE 1:1000



GENERAL ELEVATION  
SCALE 1:1000

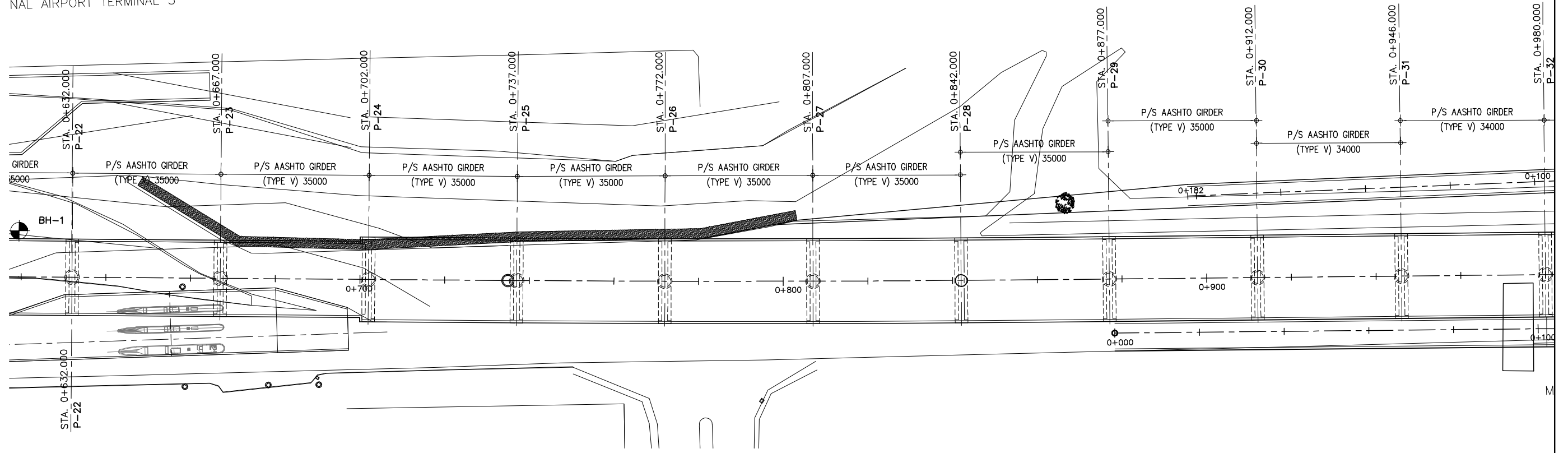
STATION	+ 400								+ 500								+ 600																		
FINISHED GRADE ELEVATION	28.075		26.015		25.955		25.895		25.835		25.775		25.715		25.655		25.595		25.535		25.475		25.415		25.355		25.295		25.235		25.175		25.115		25.055
EXISTING GROUND ELEVATION	13.080		13.310		13.090		12.030		12.547		12.180		12.000		12.000		12.000		12.000		12.020		12.630		12.989		12.005		12.530		12.970		12.530		12.068

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-03
			SHEET NO.
			2 OF 16

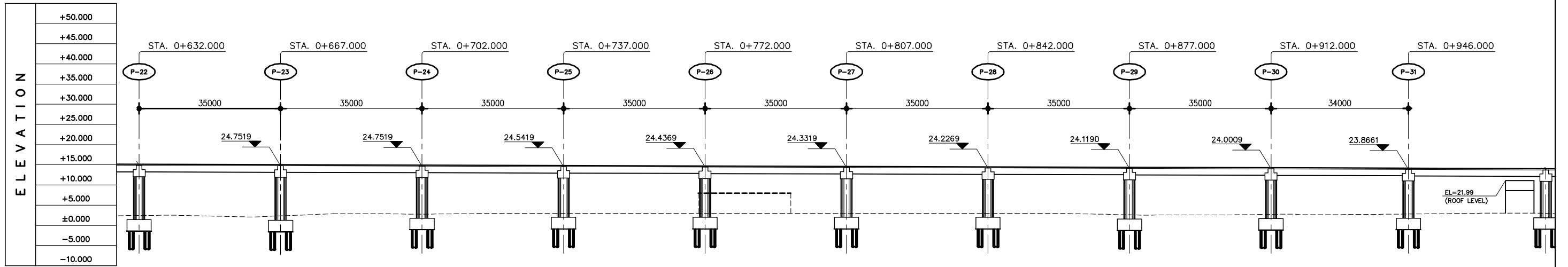




NAL AIRPORT TERMINAL 3



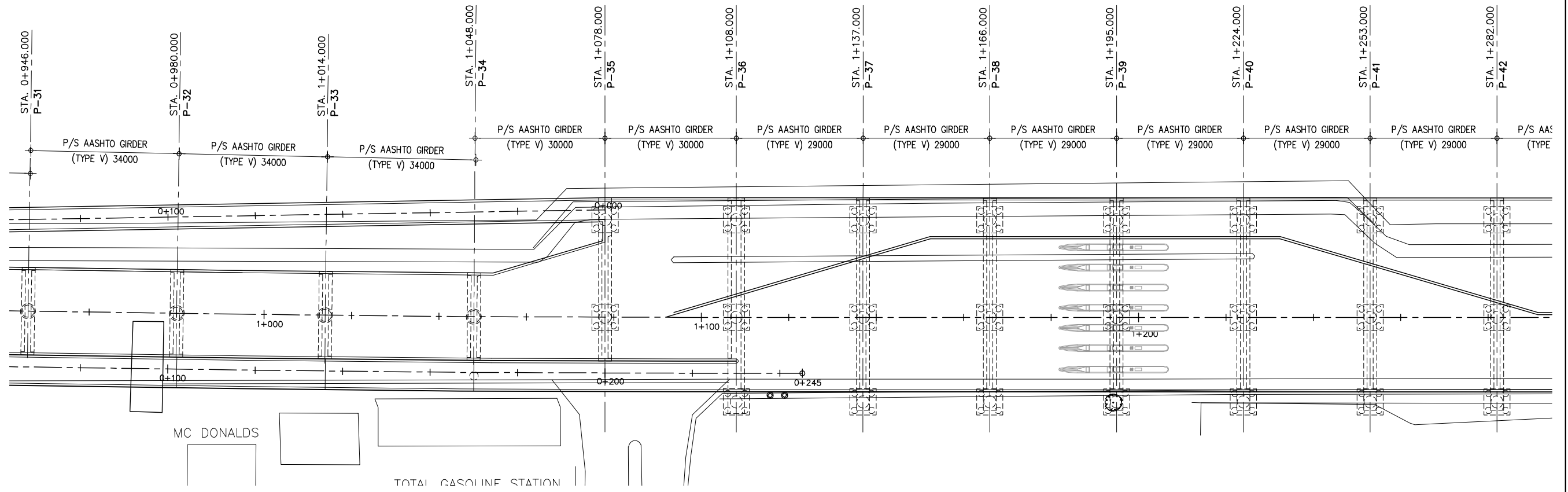
GENERAL PLAN  
SCALE 1:1000



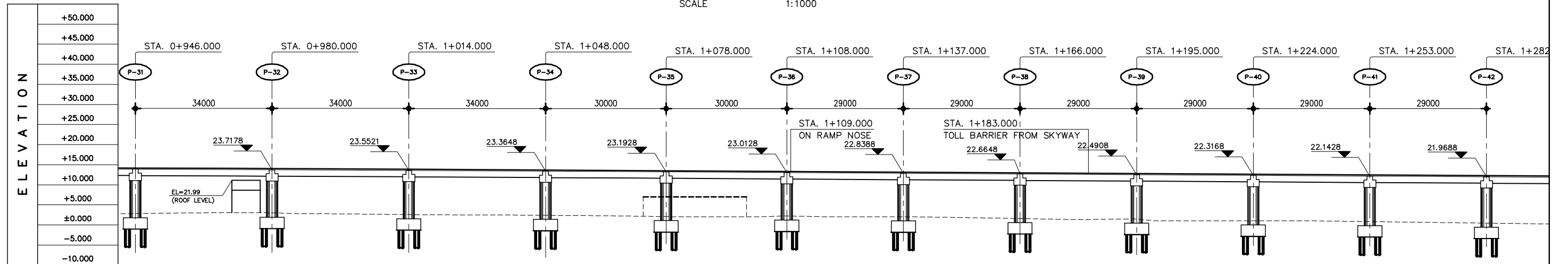
STATION	+ 700					+ 800					+ 900				
FINISHED GRADE ELEVATION	26.115	26.095	24.895	24.895	24.875	24.815	24.795	24.695	24.695	24.695	24.695	24.695	24.695	24.695	24.695
EXISTING GROUND ELEVATION	12.000	12.000	12.000	12.770	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000

GENERAL ELEVATION  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-04
			SHEET NO.
			3 OF 16



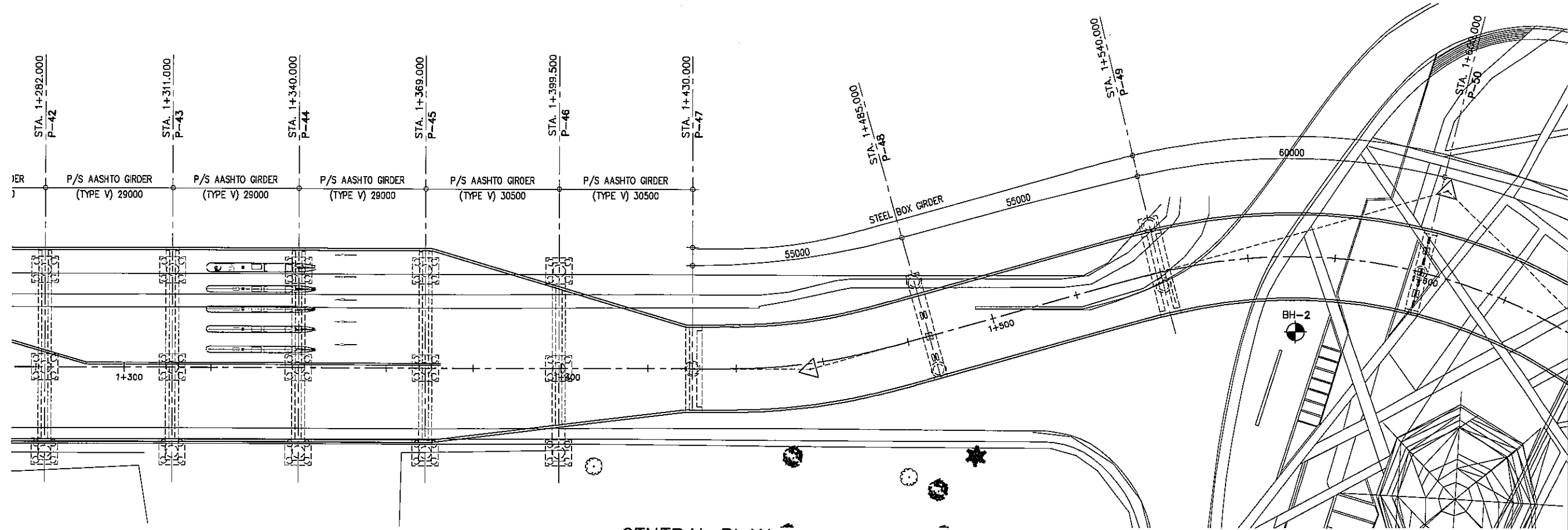
**GENERAL PLAN**  
SCALE 1:1000



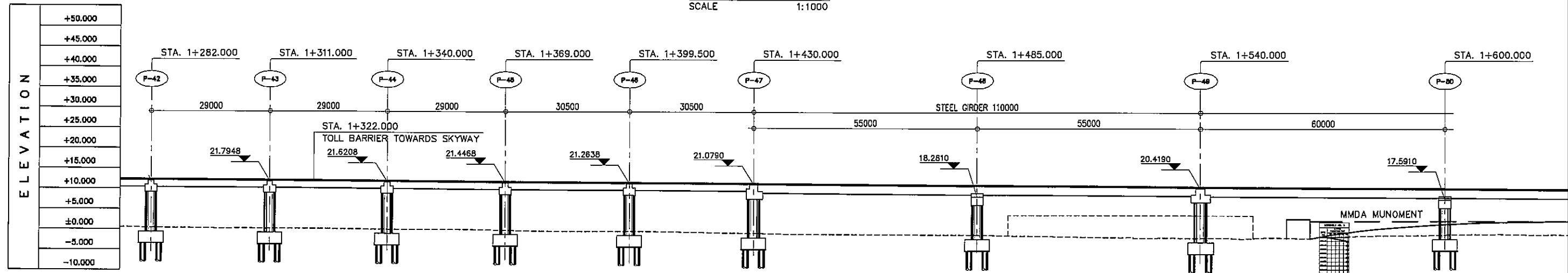
STATION	1 + 000				1 + 100				1 + 200					
FINISHED GRADE ELEVATION	24.004	24.004	23.000	23.000	23.000	23.000	23.000	23.000	22.000	22.000	22.000	22.000	22.000	
EXISTING GROUND ELEVATION	13.000	13.000	12.710	12.000	12.400	12.910	12.000	12.000	11.700	11.910	11.001	11.000	10.000	10.470

**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	<b>GENERAL PLAN &amp; ELEVATION</b>	<b>H-05</b>
			<b>SHEET NO.</b>
			<b>4 OF 16</b>



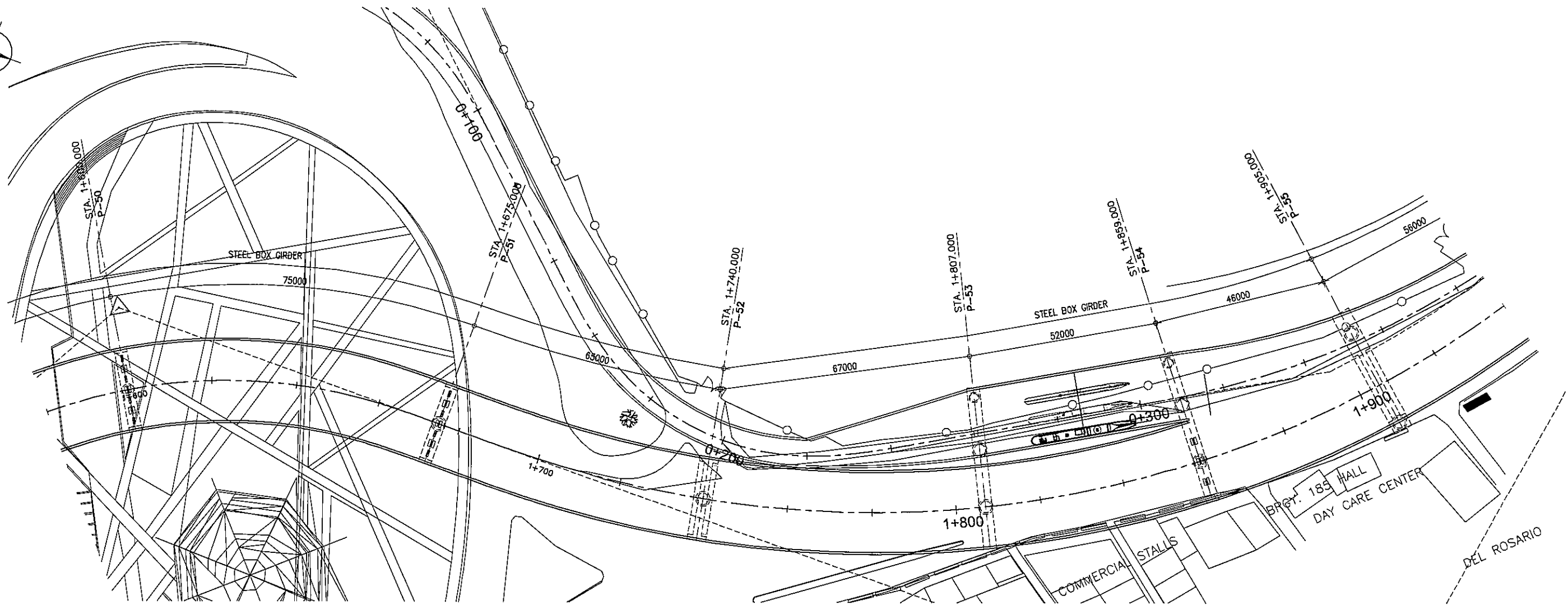
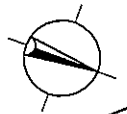
**GENERAL PLAN**  
SCALE 1:1000



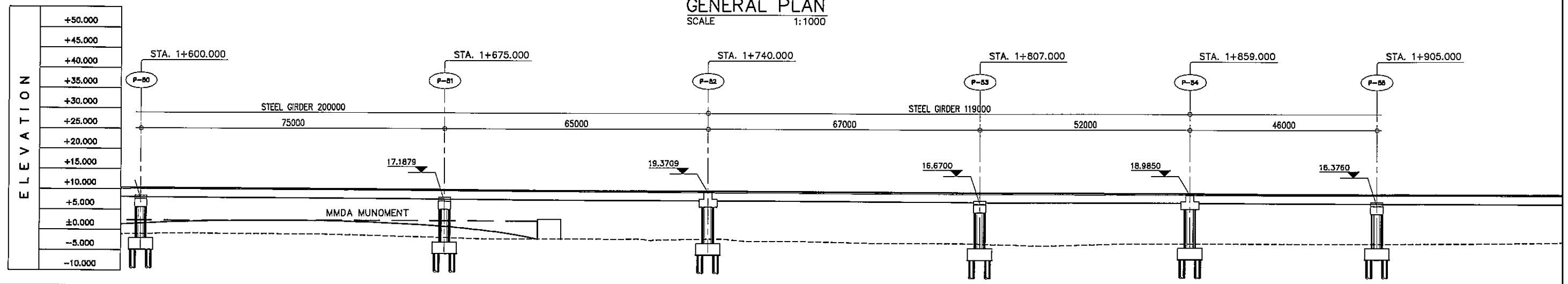
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	1 + 300				1 + 400				1 + 500				1 + 600					
FINISHED GRADE ELEVATION	22.265	22.145	22.025	21.905	21.785	21.665	21.545	21.425	21.305	21.185	21.065	20.945	20.825	20.705	20.585	20.465	20.345	20.228
EXISTING GROUND ELEVATION	10.470	10.200	10.214	10.000	10.000	9.830	9.640	9.340	9.002	8.974	8.938	8.591	8.208	8.262	8.275	8.760	9.058	9.111

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-06
			SHEET NO.
			5 OF 16



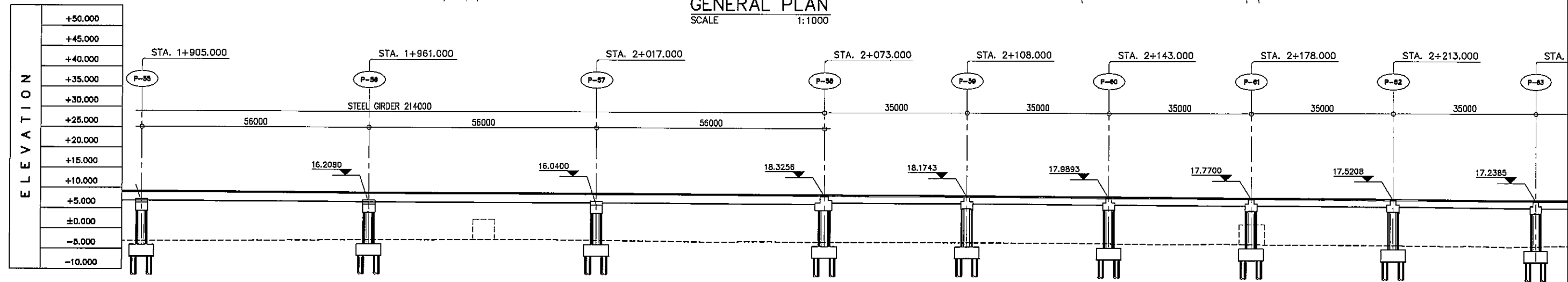
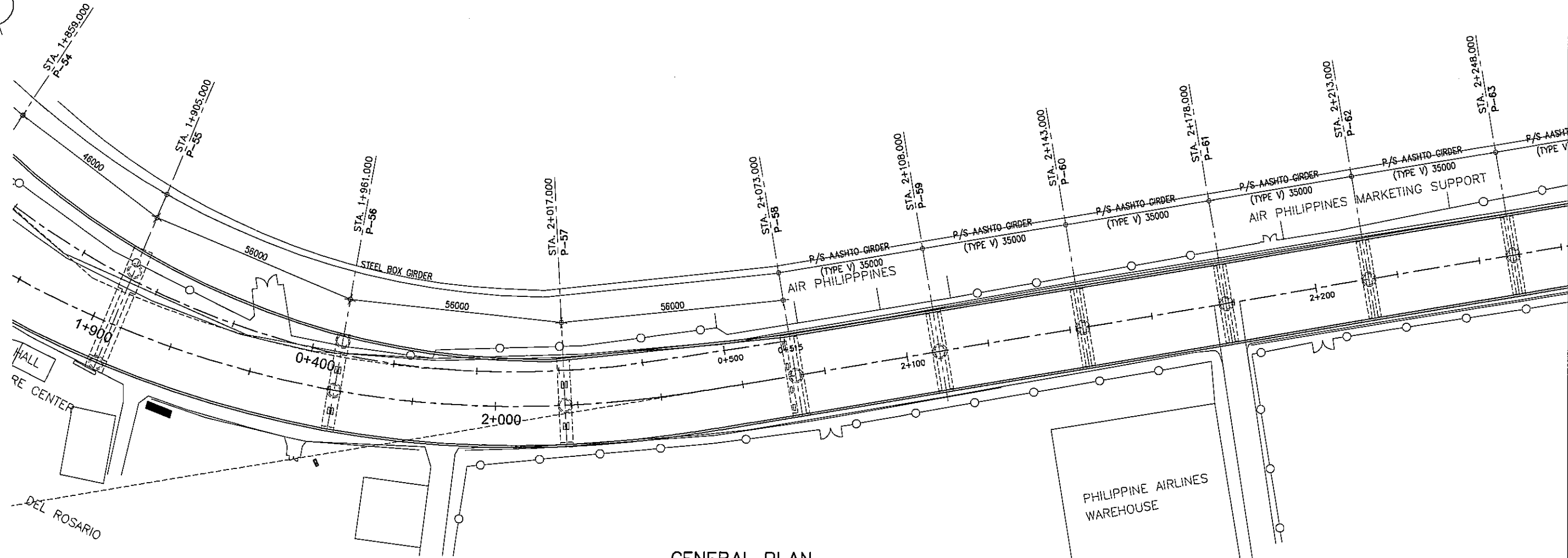
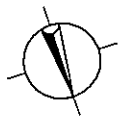
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

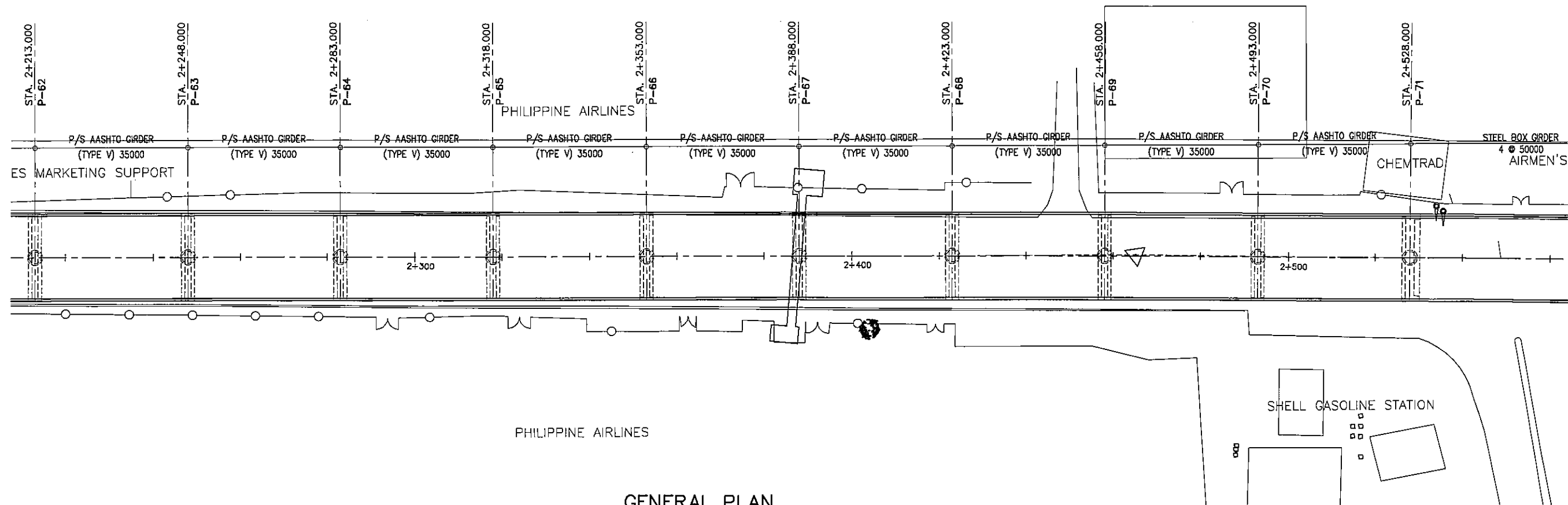
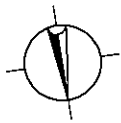
STATION	1 + 600					1 + 700					1 + 800					1 + 900				
FINISHED GRADE ELEVATION	20.345		20.228	20.117	20.012	19.913	19.820		19.733	19.652	19.577	19.508	19.445	19.385	19.325	19.265	19.205	19.145	19.085	19.025
EXISTING GROUND ELEVATION	9.036		9.111	9.001	8.892	8.802	8.800		7.938	7.846	7.446	7.068	7.002	6.546	6.829	7.007	7.002	7.016	7.016	7.185

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-07
			SHEET NO.
			6 OF 16

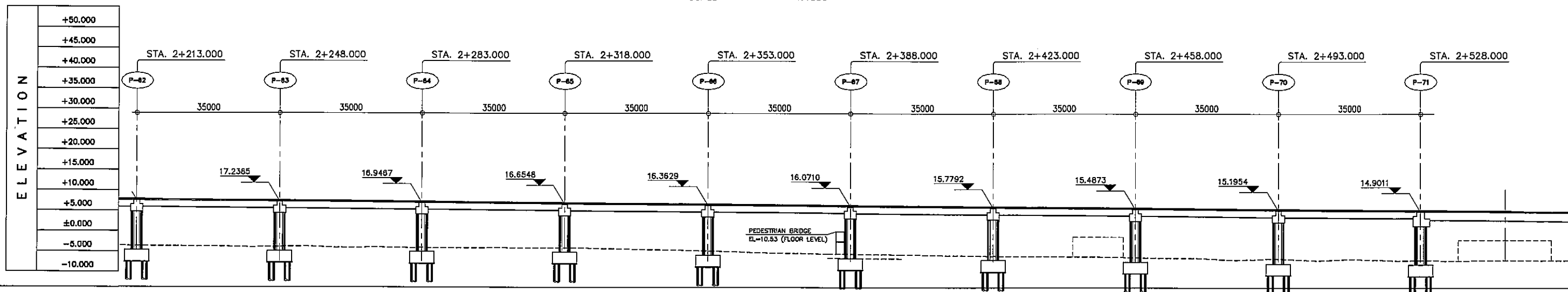


STATION	1 + 900	2 + 000				2+100				2+200							
FINISHED GRADE ELEVATION	19.085	18.025	18.965	18.905	18.845	18.785	18.725	18.660	18.594	18.487	18.400	18.292	18.173	18.043	17.903	17.753	17.591
EXISTING GROUND ELEVATION	7.016	7.185	7.411	7.475	7.479	7.317	7.041	7.169	7.008	7.024	7.004	6.909	6.698	6.688	6.586	6.378	6.171

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-08
			SHEET NO.
			7 OF 16



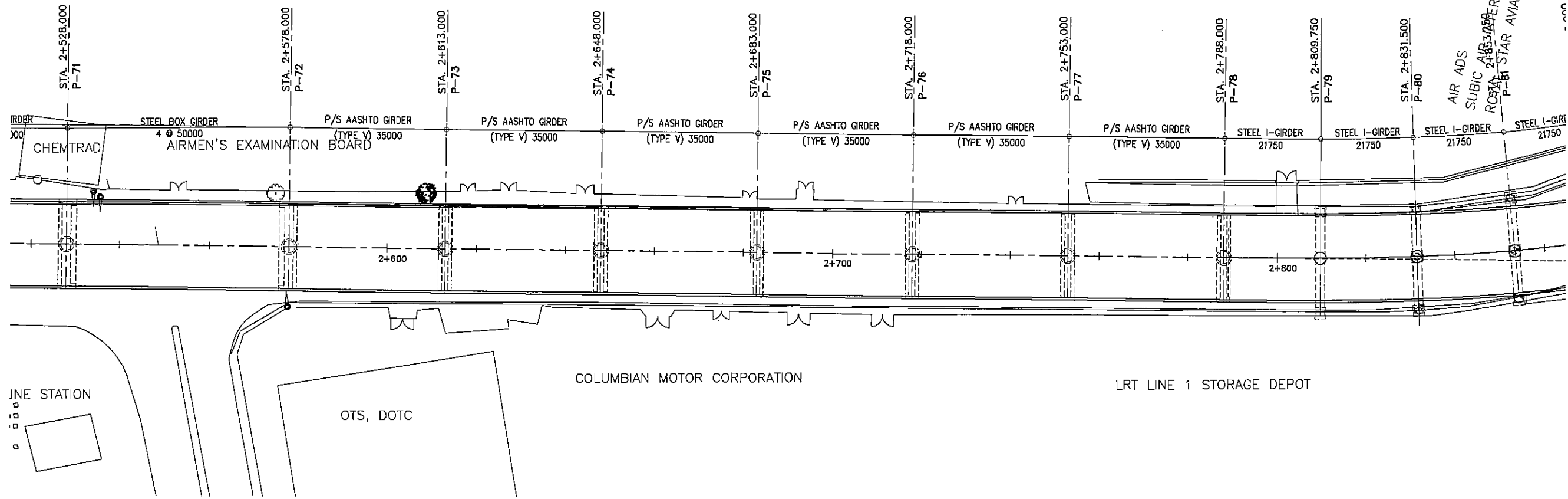
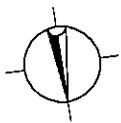
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

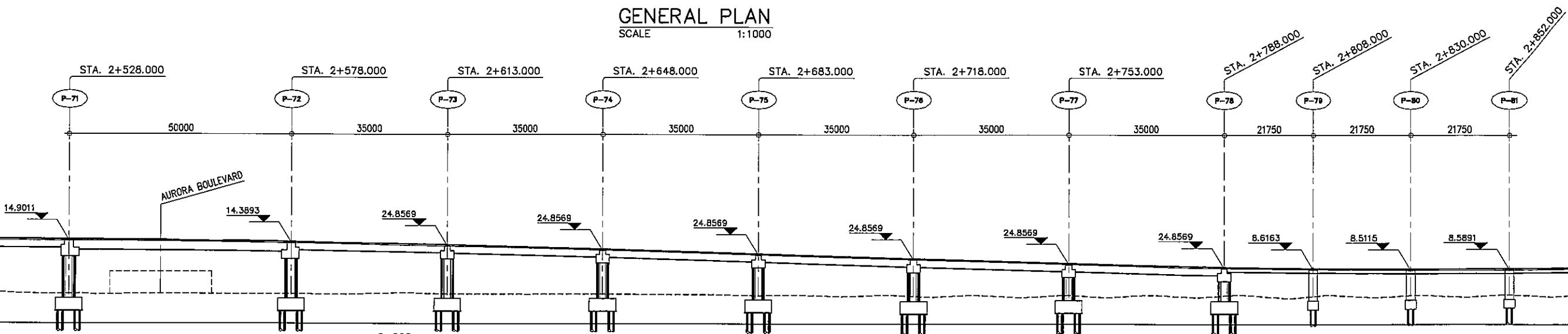
STATION	2+300				2+400				2+500									
FINISHED GRADE ELEVATION	17.753	17.591	17.424	17.258	17.091	16.924	16.757	16.590	16.424	16.257	16.090	15.923	15.756	15.590	15.423	15.256	15.090	14.912
EXISTING GROUND ELEVATION	6.376	6.171	6.130	5.994	6.007	5.978	5.823	5.696	4.570	4.598	4.115	4.010	3.677	3.222	3.095	3.071	2.927	3.013

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-09
			SHEET NO.
			8 OF 16



**GENERAL PLAN**  
SCALE 1:1000

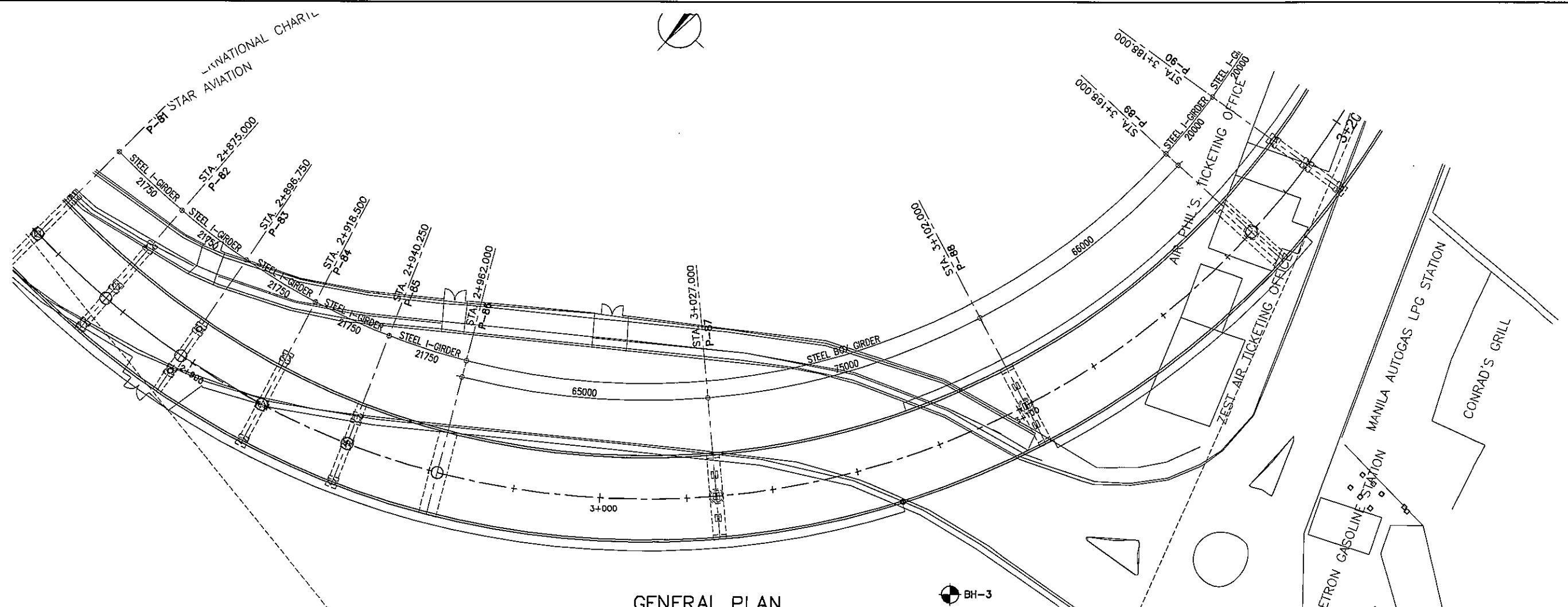
+50.000
+45.000
+40.000
+35.000
+30.000
+25.000
+20.000
+15.000
+10.000
+5.000
±0.000
-5.000
-10.000



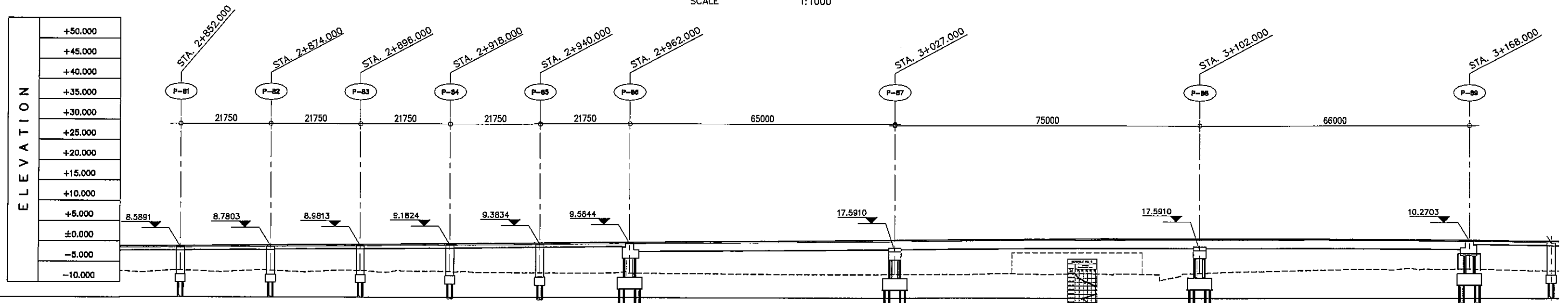
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	2+528.000	2+578.000	2+613.000	2+648.000	2+683.000	2+718.000	2+753.000	2+788.000	2+808.000	2+830.000	2+852.000							
FINISHED GRADE ELEVATION	15.256	15.089	14.912	14.658	14.318	13.892	13.376	12.789	12.189	11.589	10.989	10.389	9.784	9.311	8.685	8.816	8.803	8.942
EXISTING GROUND ELEVATION	3.071	2.957	3.013	2.900	3.109	3.005	2.900	2.729	2.573	2.489	2.368	2.411	2.508	2.301	2.477	2.251	2.624	

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-10
			SHEET NO.
			9 OF 16



**GENERAL PLAN**  
SCALE 1:1000

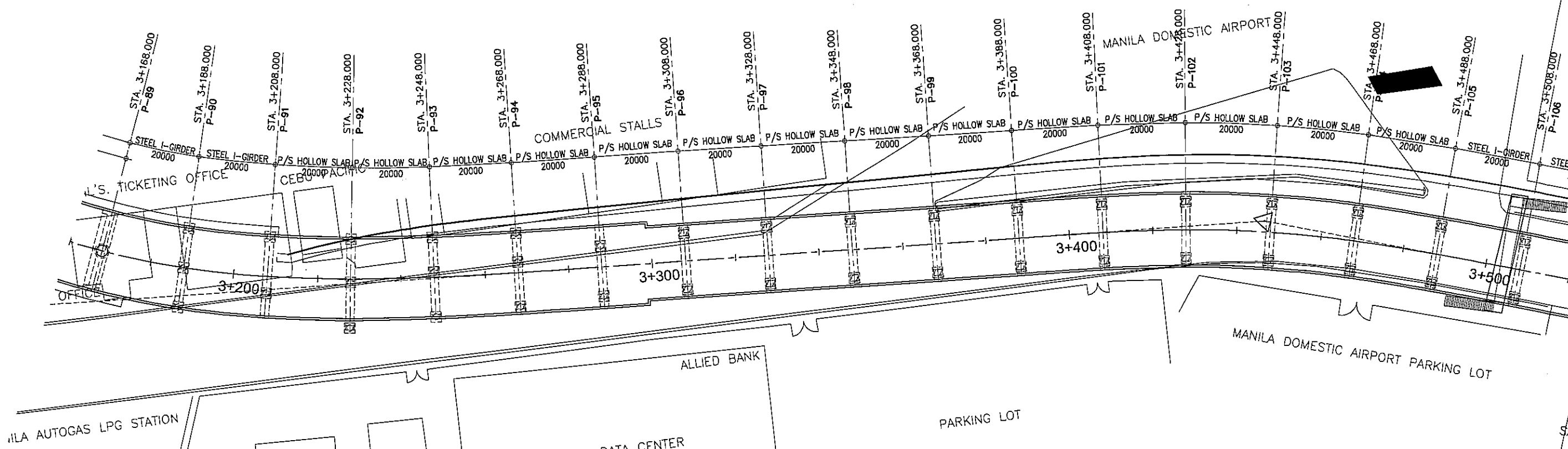
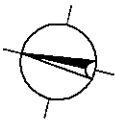


**GENERAL ELEVATION**  
SCALE 1:1000

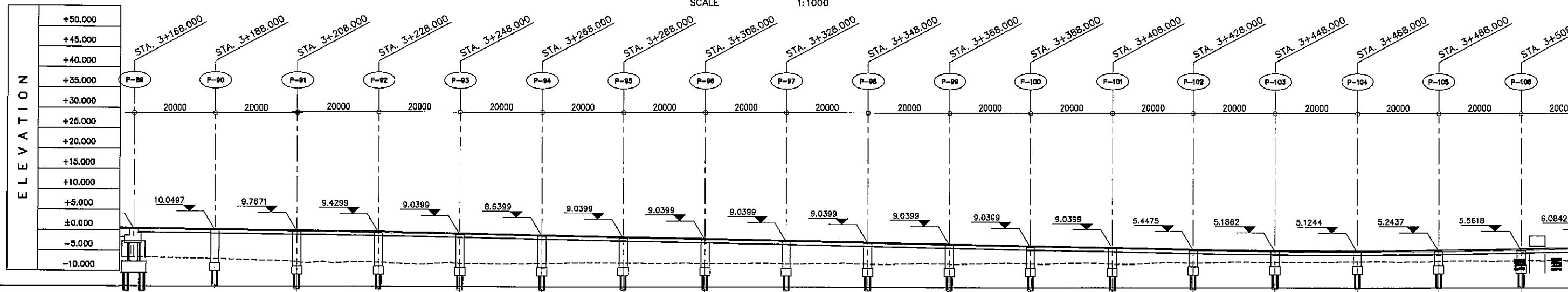
STATION	2+900					3+000					3+100							
FINISHED GRADE ELEVATION	8.603	8.942	9.124	9.307	9.460	9.673	9.855	10.038	10.221	10.404	10.588	10.740	10.895	10.872	10.851	10.772	10.694	10.438
EXISTING GROUND ELEVATION	2.551	2.624	2.604	2.595	2.646	2.390	2.624	2.240	2.096	2.048	2.175	2.224	2.160	2.395	3.007	3.444	3.448	3.254

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-11
			SHEET NO.
			10 OF 16





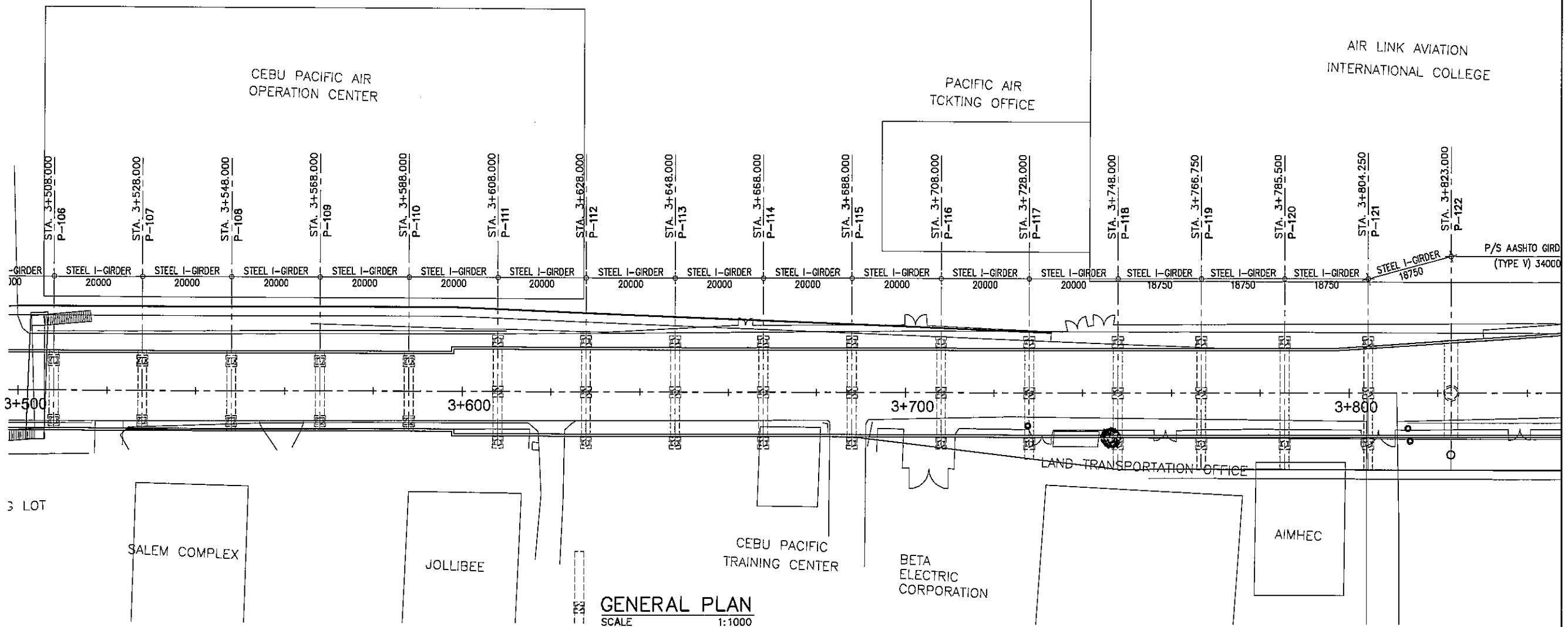
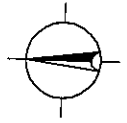
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

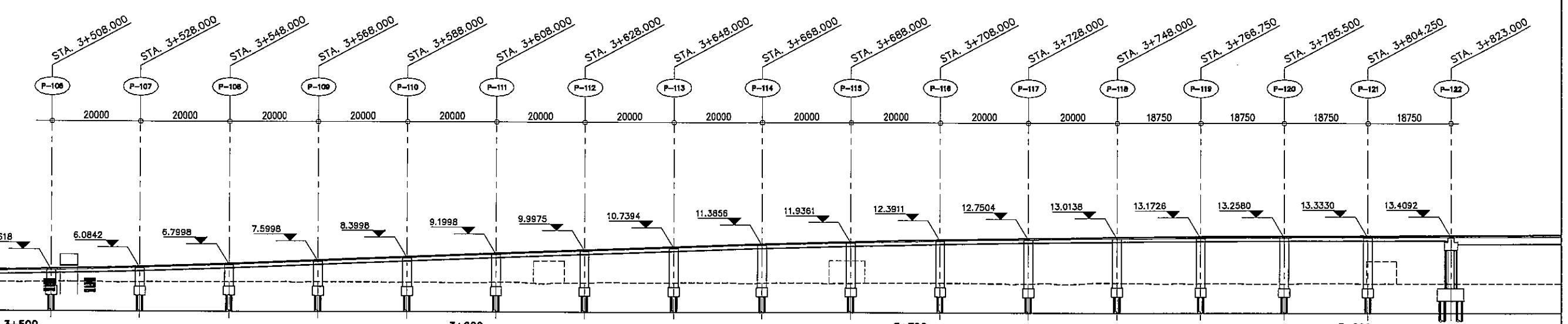
STATION	3+200	3+300	3+400	3+500
FINISHED GRADE ELEVATION	10.488	10.186	8.871	8.500
EXISTING GROUND ELEVATION	3.254	2.734	2.271	1.846

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-12
			SHEET NO.
			11 OF 16



**GENERAL PLAN**  
SCALE 1:1000

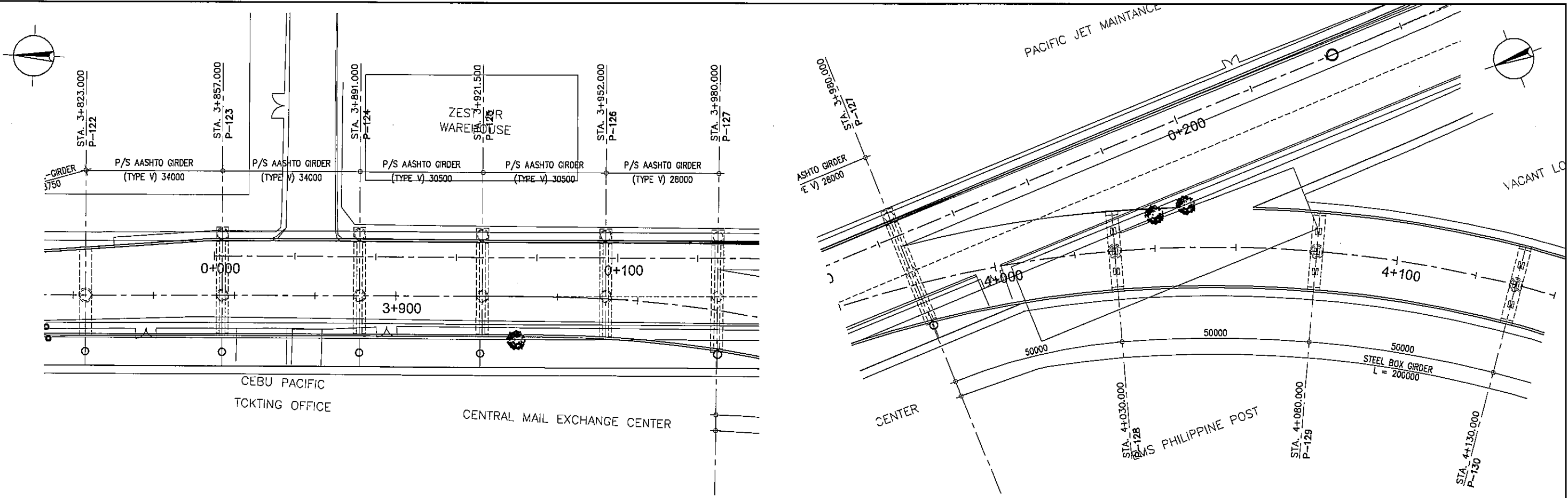
ELEVATION	
+50.000	
+45.000	
+40.000	
+35.000	
+30.000	
+25.000	
+20.000	
+15.000	
+10.000	
+5.000	
±0.000	
-5.000	
-10.000	



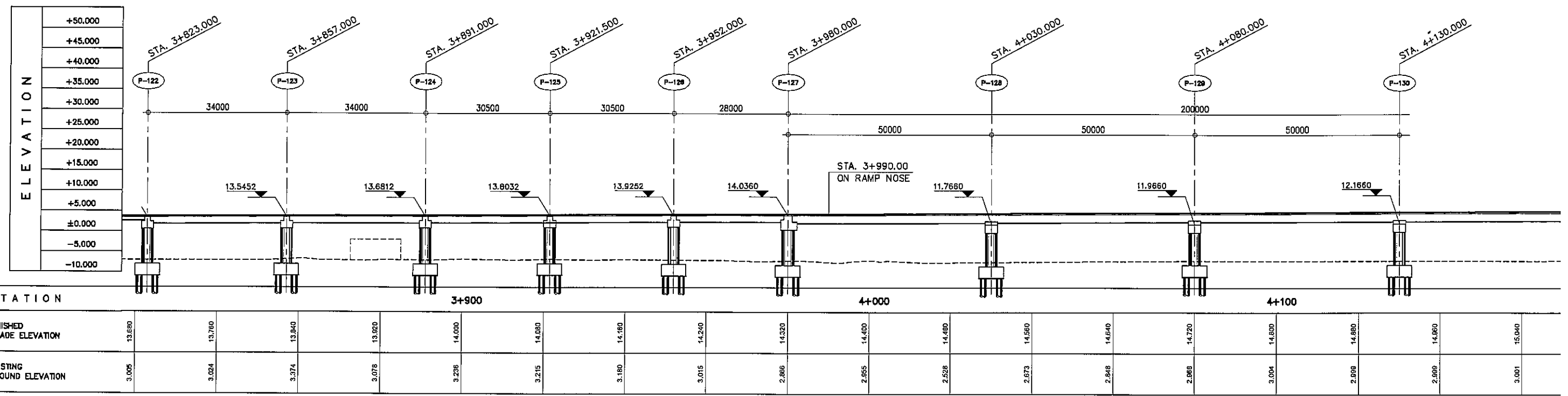
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	3+500	3+600	3+700	3+800
FINISHED GRADE ELEVATION	5.706	6.156	6.800	7.600
EXISTING GROUND ELEVATION	2.871	2.843	3.022	3.039

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-13
			SHEET NO.
			12 OF 16

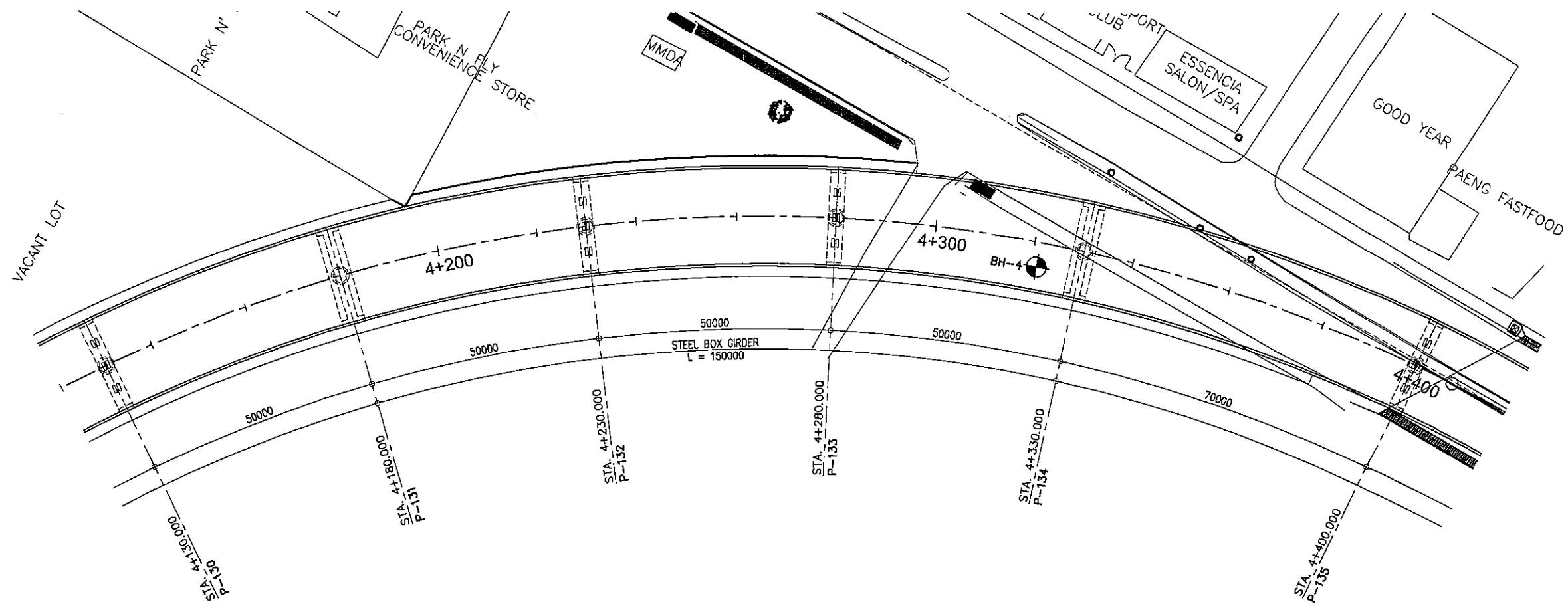
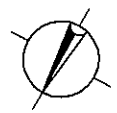


**GENERAL PLAN**  
SCALE 1:1000

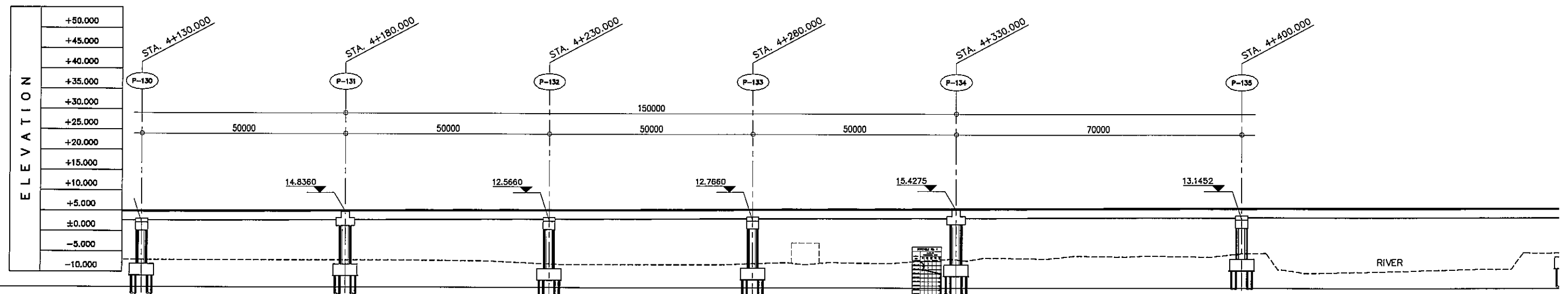


**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-14
			SHEET NO.
			13 OF 16



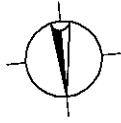
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

STATION	4+200					4+300					4+400						
FINISHED GRADE ELEVATION	14.860	15.840	15.120	15.200	15.280	15.380	15.440	15.520	15.600	15.670	15.749	15.810	15.881	15.963	15.935	15.958	15.971
EXISTING GROUND ELEVATION	2.096	3.001	3.000	2.834	2.621	2.004	2.008	2.241	2.556	2.809	3.678	4.168	4.169	4.818	4.158	4.632	5.055

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-15
			SHEET NO.
			14 OF 16



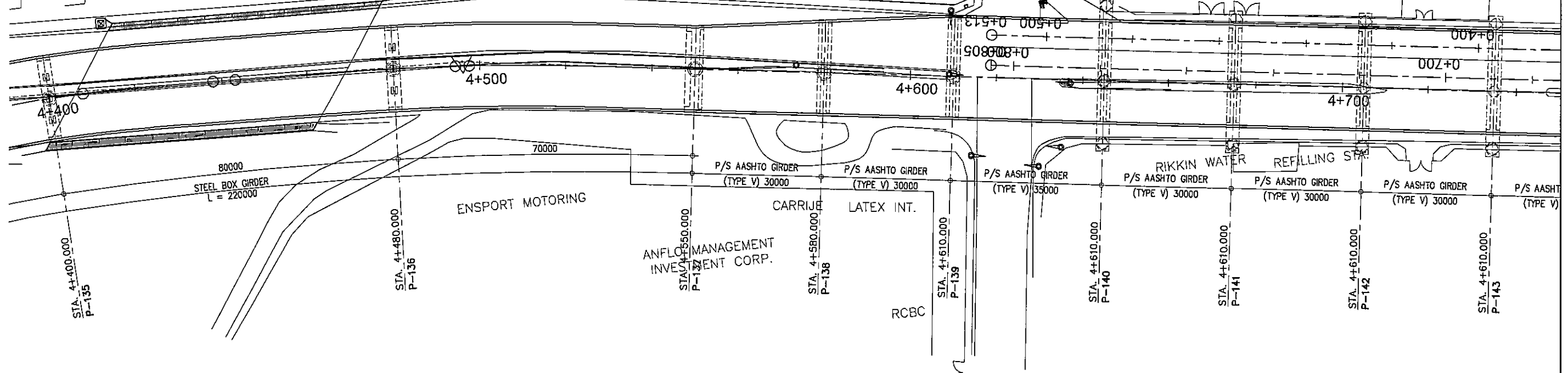
3 FASTFOOD

TAMBO ELEMENTARY SCHOOL

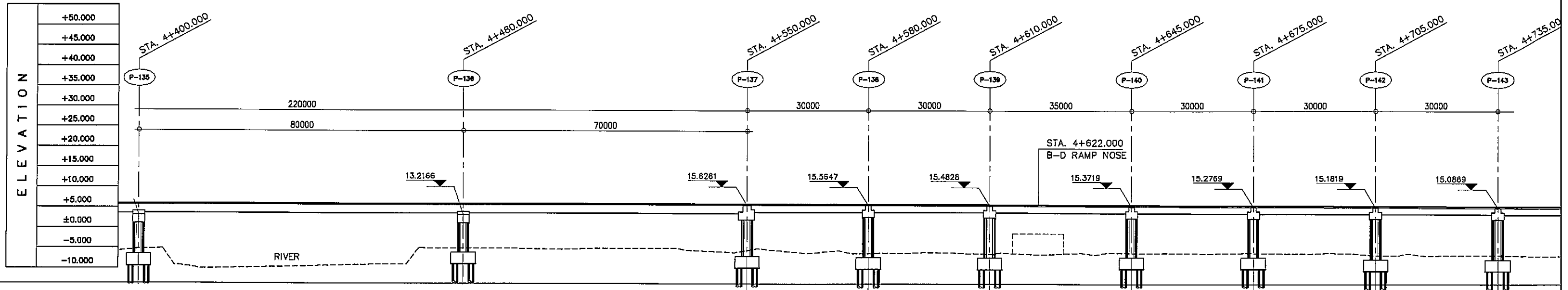
TAMBO ELEMENTARY SCHOOL

JESUS IS THE LORD BLDG.

RAPIDE AU



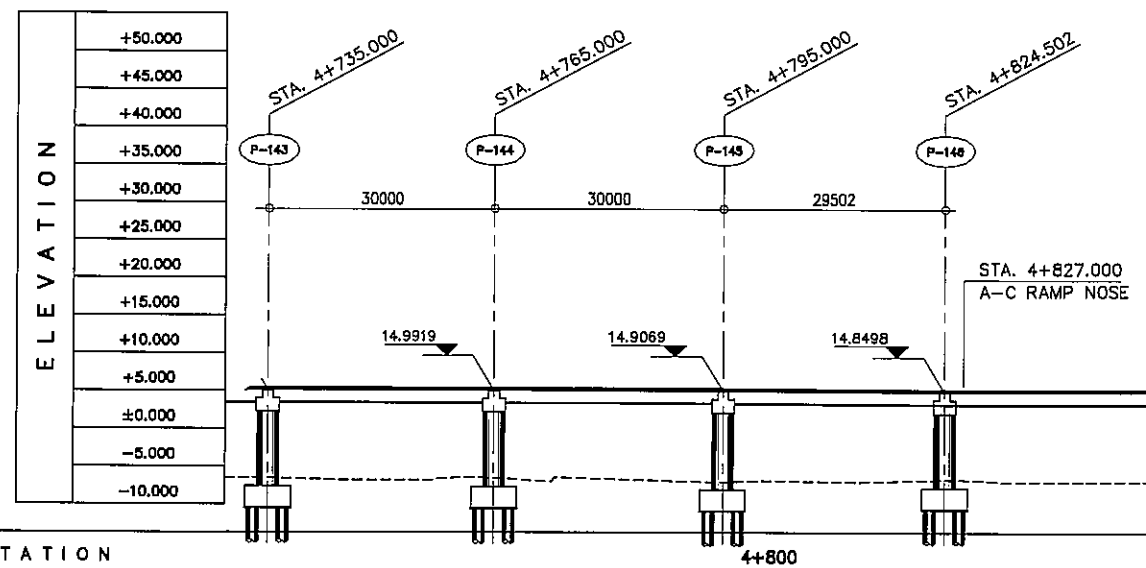
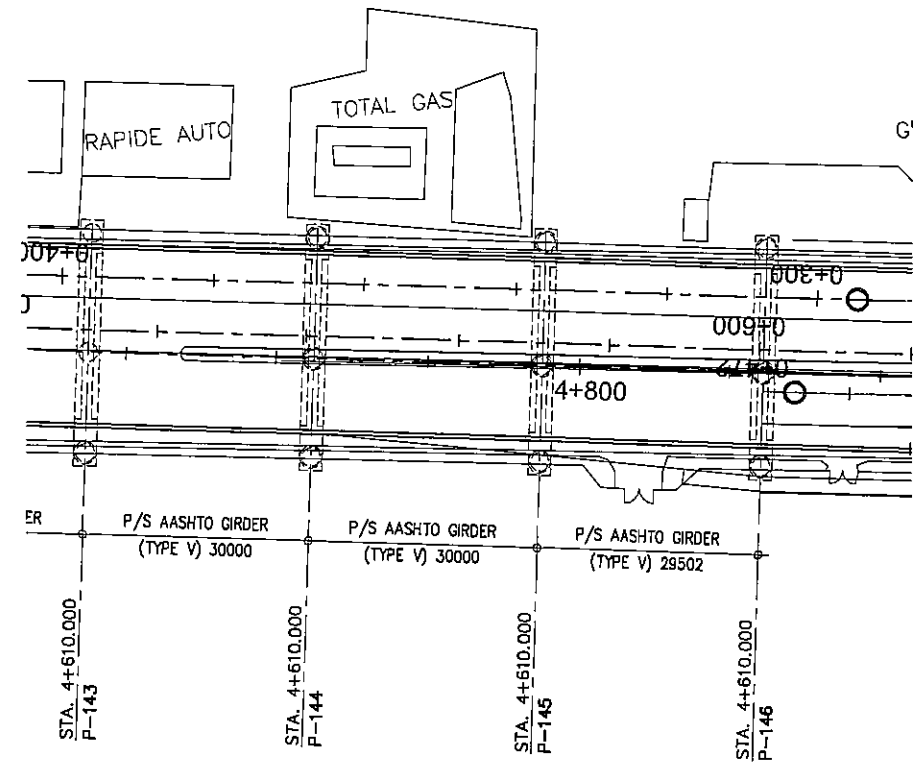
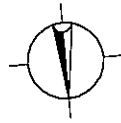
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

STATION	4+400	4+500								4+600				4+700				4+735.000
FINISHED GRADE ELEVATION	15.903	15.895	15.868	15.971	15.975	15.980	15.953	15.928	15.893	15.948	15.705	15.733	15.670	15.607	15.543	15.480	15.417	15.353
EXISTING GROUND ELEVATION	4.816	4.168	4.032	5.065	5.024	4.810	4.999	4.363	4.289	3.991	3.996	3.668	4.006	3.905	3.910	3.815	3.372	3.350

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-16
			SHEET NO.
			15 OF 16

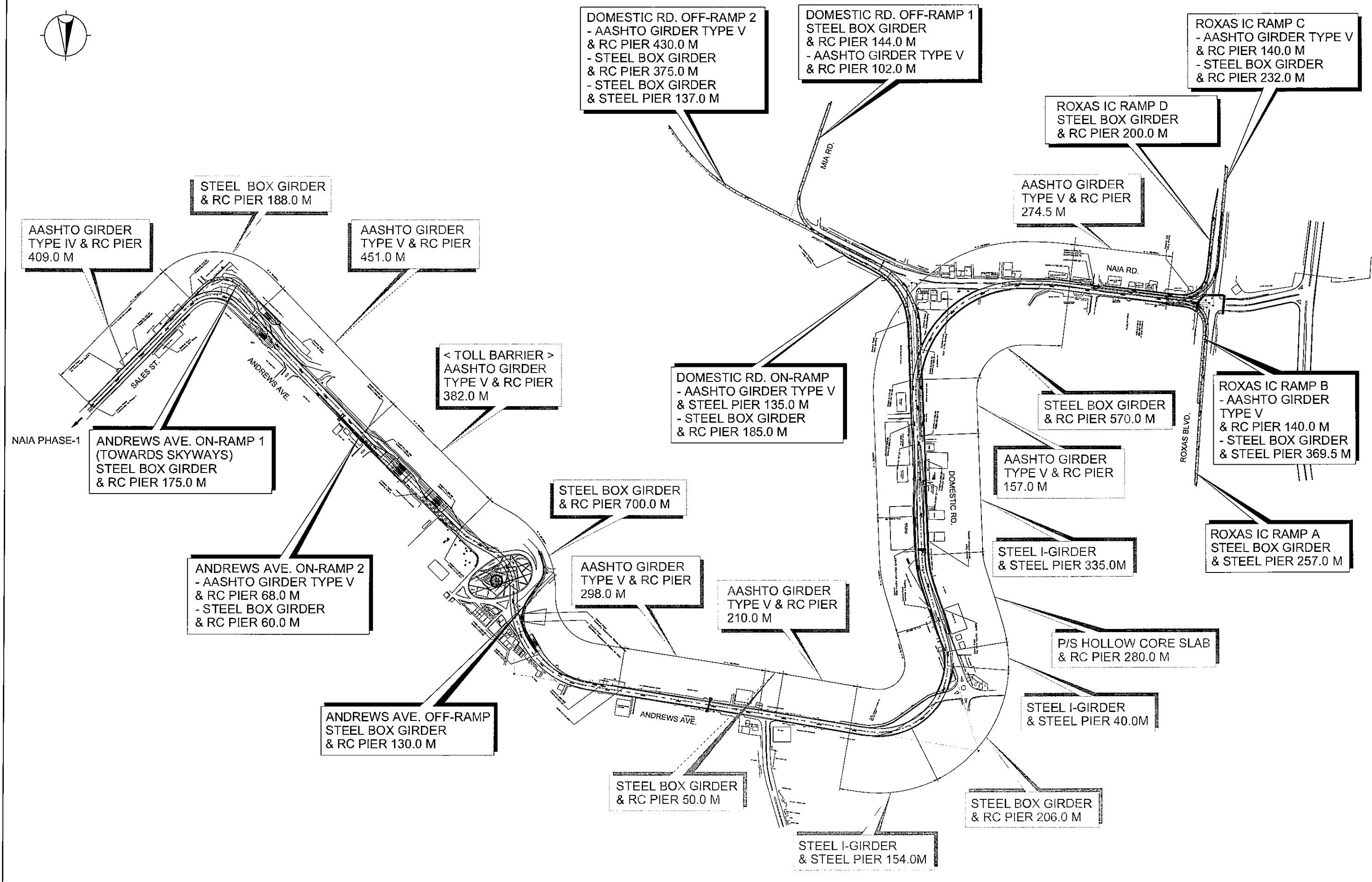
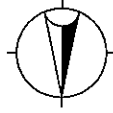


STATION	4+800						
FINISHED GRADE ELEVATION	15.353	15.280	15.228	15.177	15.137	15.108	
EXISTING GROUND ELEVATION	3.360	3.567	3.378	3.141	3.211	2.991	

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION	H-17
			SHEET NO.
			16 OF 16

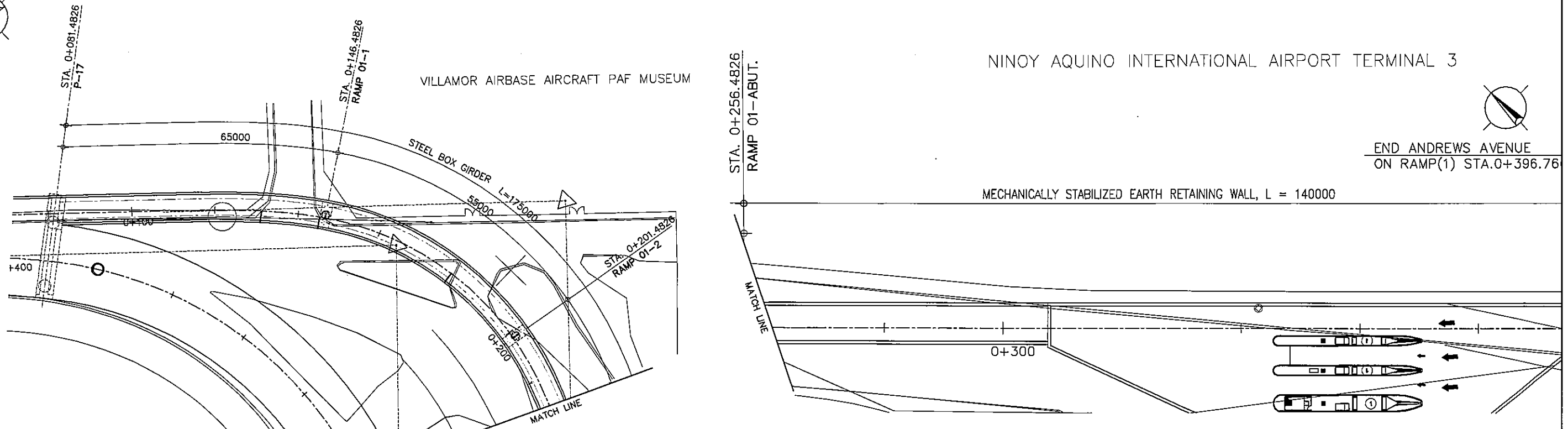
# I. GENERAL PLAN AND ELEVATION RAMP BRIDGE

NAIA EXPRESSWAY PHASE II

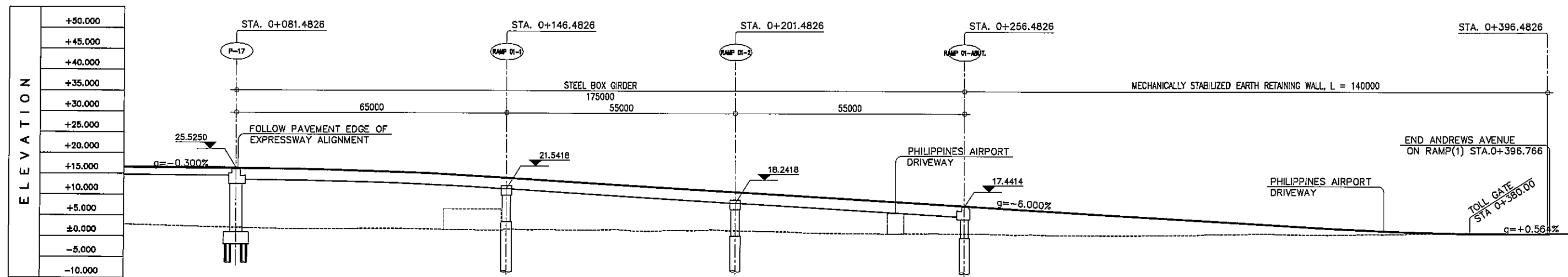


PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	INDEX MAP FOR STRUCTURE TYPE (RAMPS)	I-01
			SHEET NO.
			1 OF 1





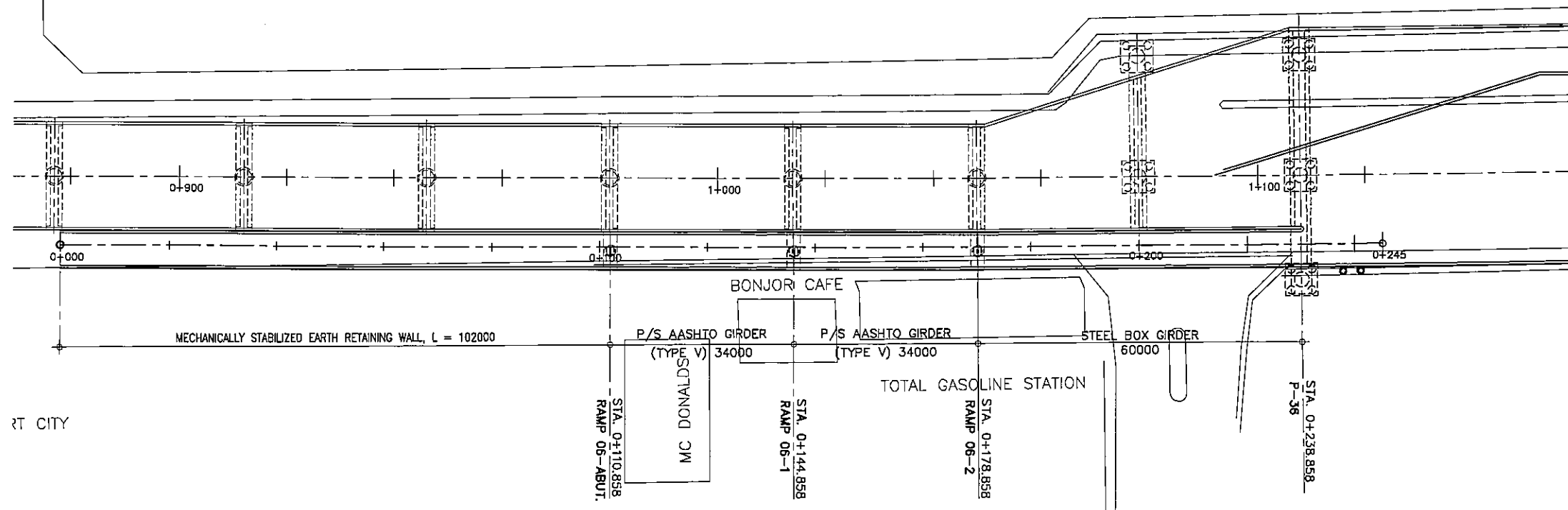
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

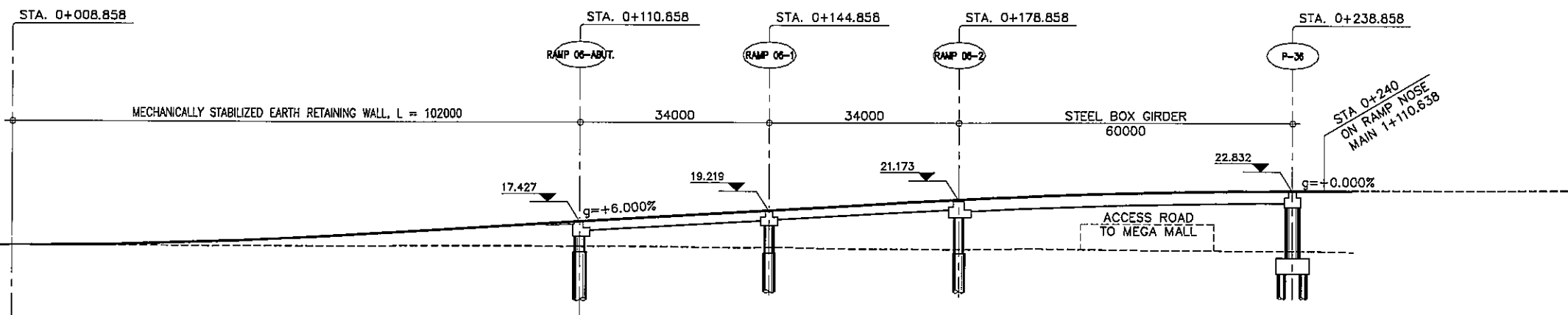
STATION	+ 100										+ 200										+ 300										+ 400													
FINISHED GRADE ELEVATION	26.518	26.450	26.244		25.652	24.680	23.462		22.282	21.082	19.882	18.682	17.482	16.282	15.082	13.882	12.682	11.471	11.283	11.231			26.518	26.450	26.244		25.652	24.680	23.462		22.282	21.082	19.882	18.682	17.482	16.282	15.082	13.882	12.682	11.471	11.283	11.231		
EXISTING GROUND ELEVATION	12.680	12.225	11.844		12.018	11.713	11.300		11.544	11.082	11.142	10.837	10.985	10.980	10.718	10.814	10.856	11.070	11.381	11.231			12.680	12.225	11.844		12.018	11.713	11.300		11.544	11.082	11.142	10.837	10.985	10.980	10.718	10.814	10.856	11.070	11.381	11.231		

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION ANDREWS AVENUE ON RAMP (1) TOWARDS SKYWAY	I-02
			SHEET NO.
			1 OF 1



**GENERAL PLAN**  
SCALE 1:1000

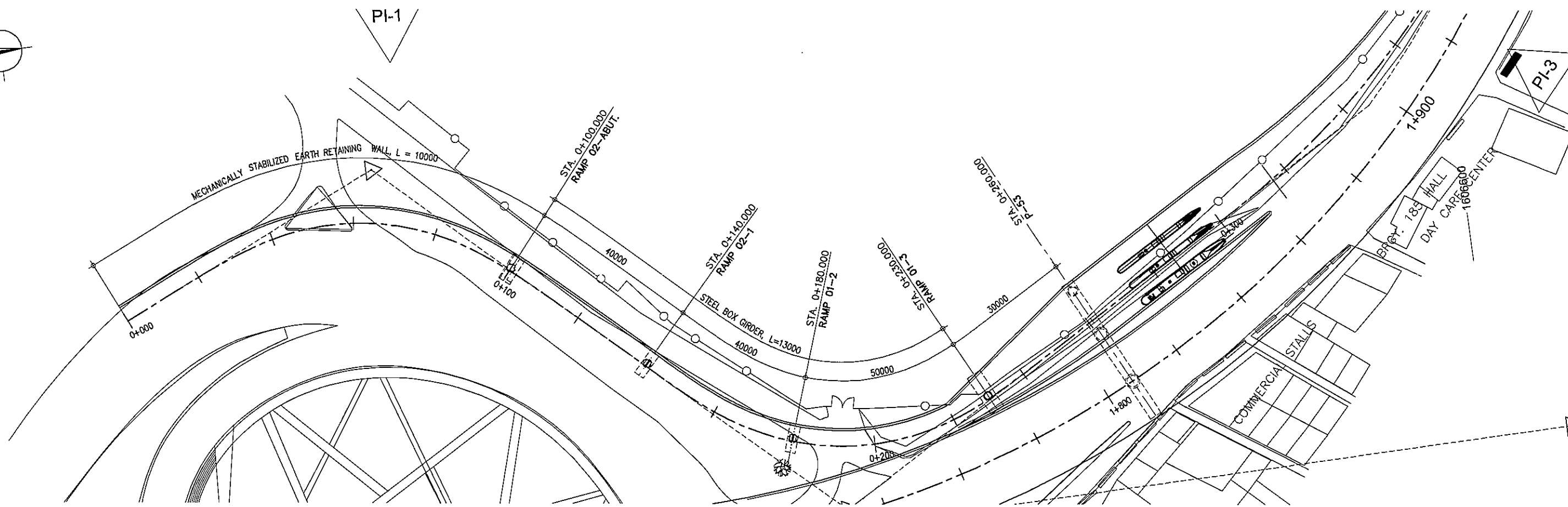
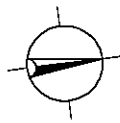
ELEVATION	+50.000
	+45.000
	+40.000
	+35.000
	+30.000
	+25.000
	+20.000
	+15.000
	+10.000
	+5.000
	±0.000
	-5.000
	-10.000



**GENERAL ELEVATION**  
SCALE 1:1000

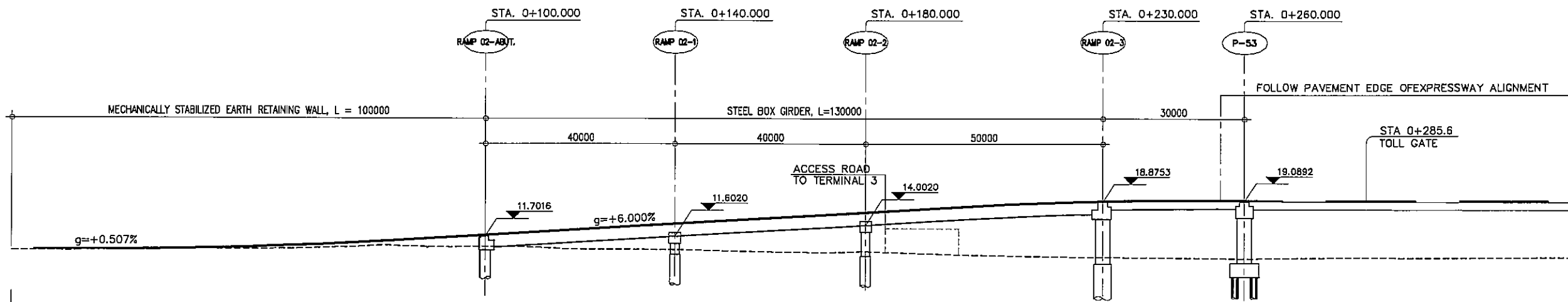
STATION	0 + 000					+ 100					+ 200					+ 245											
FINISHED GRADE ELEVATION	12.909		13.103		13.702		14.696		15.896		17.096		18.296		19.496		20.696		21.746		22.496		22.946		23.096		23.096
EXISTING GROUND ELEVATION	12.909		12.910		12.833		12.894		12.961		12.716		12.870		12.772		12.554		12.529		12.408		12.248		12.152		12.048

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	GENERAL PLAN & ELEVATION ANDREWS AVENUE ON RAMP(2) TOWARDS ROXAS BLVD.	I-03
			SHEET NO.
			1 OF 1



**GENERAL PLAN**  
SCALE 1:1000

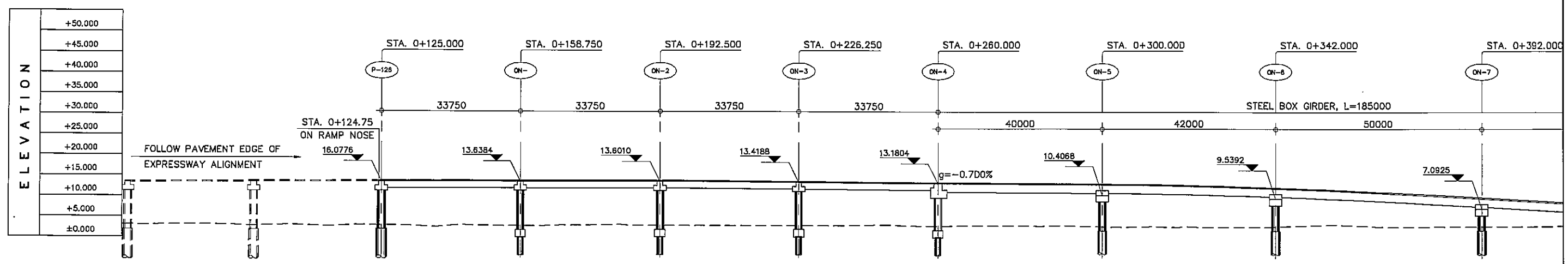
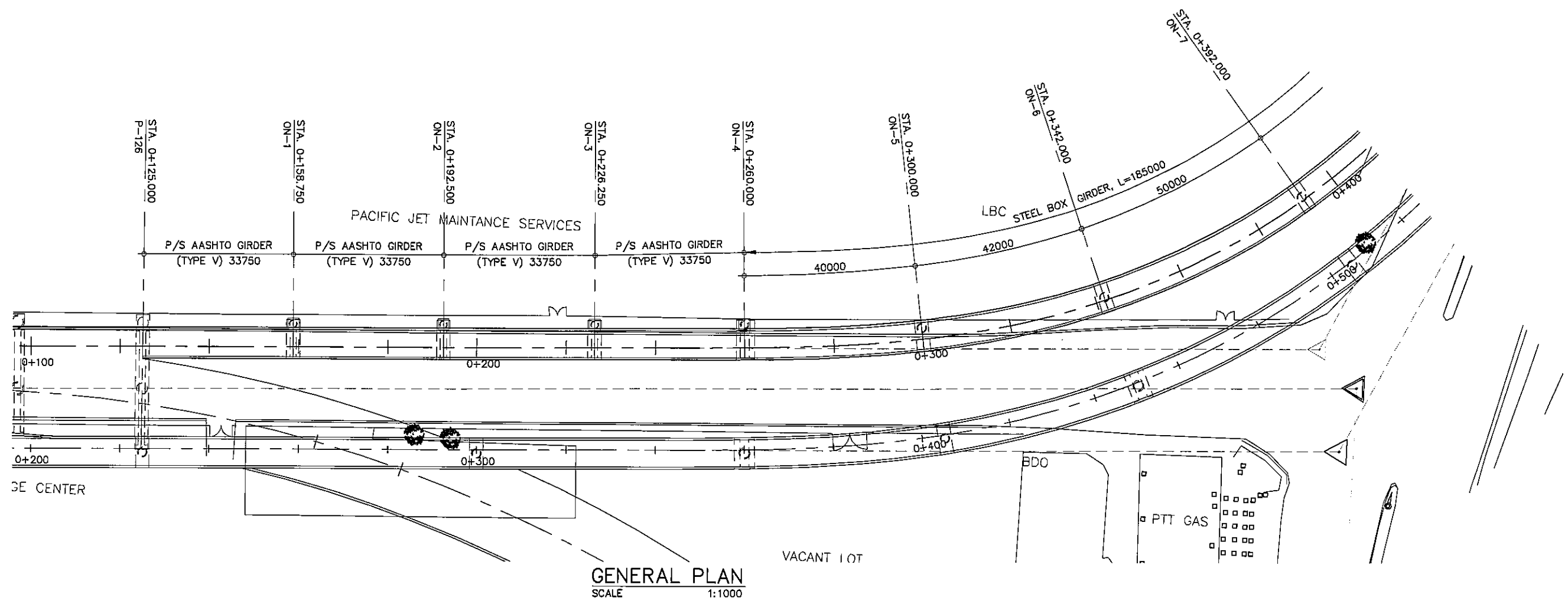
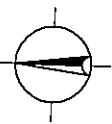
ELEVATION	+50.000
	+45.000
	+40.000
	+35.000
	+30.000
	+25.000
	+20.000
	+15.000
	+10.000
	+5.000
	±0.000
	-5.000
	-10.000



**GENERAL ELEVATION**  
SCALE 1:1000

STATION	0 + 000	+ 100										+ 200										+ 300									
FINISHED GRADE ELEVATION	8.800	8.800	9.064	9.735	10.752	11.652	13.152	14.352	15.552	16.752	17.959	18.823	19.287	19.342	19.280	19.217	19.154	19.082													
EXISTING GROUND ELEVATION	8.622	8.759	8.881	8.912	9.709	9.512	9.328	8.826	8.357	8.475	7.766	7.356	7.207	7.043	7.287	7.224	7.248	7.359													

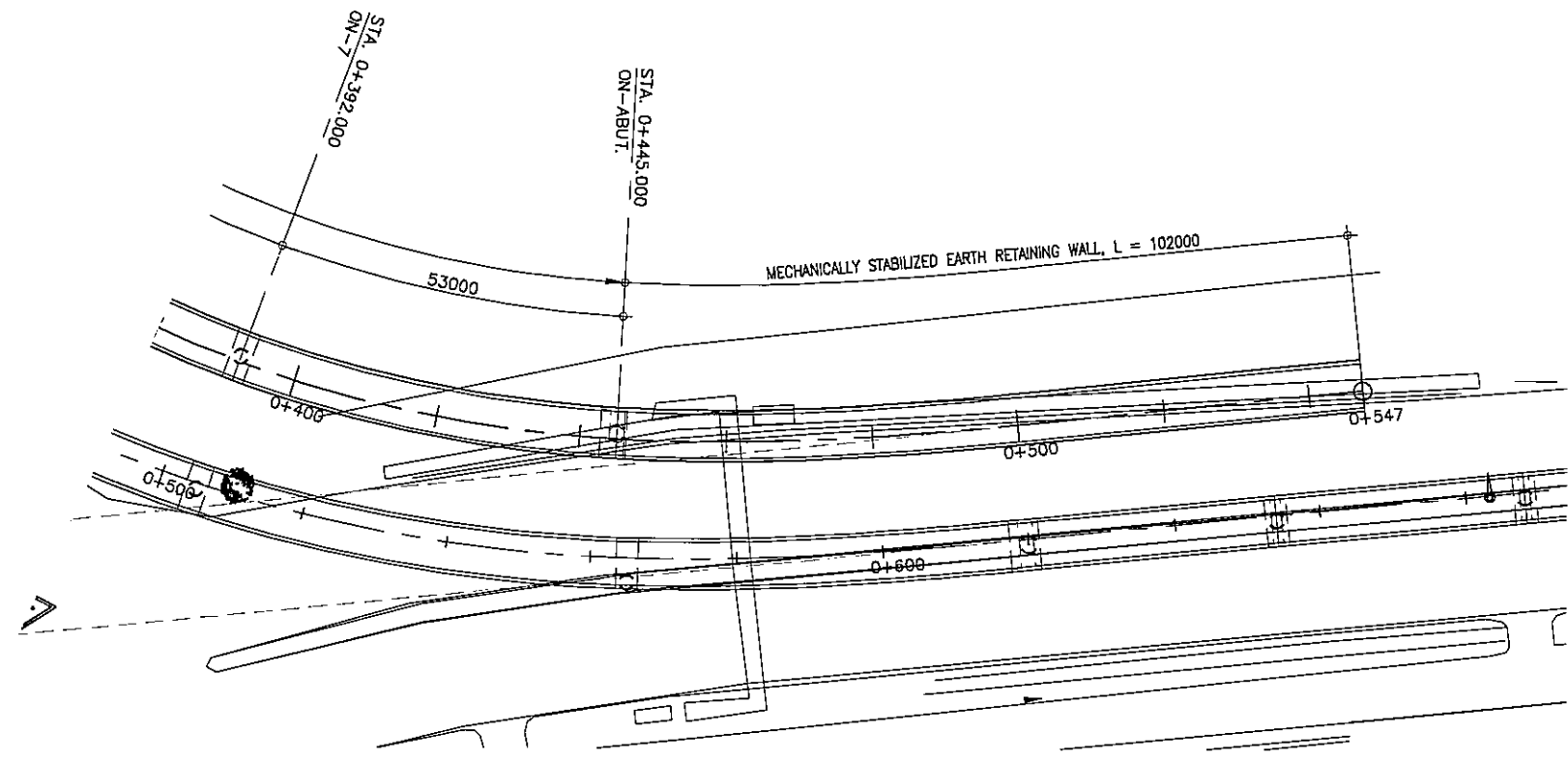
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION ANDREWS AVENUE OFF RAMP	I-04
			SHEET NO.
			1 OF 1



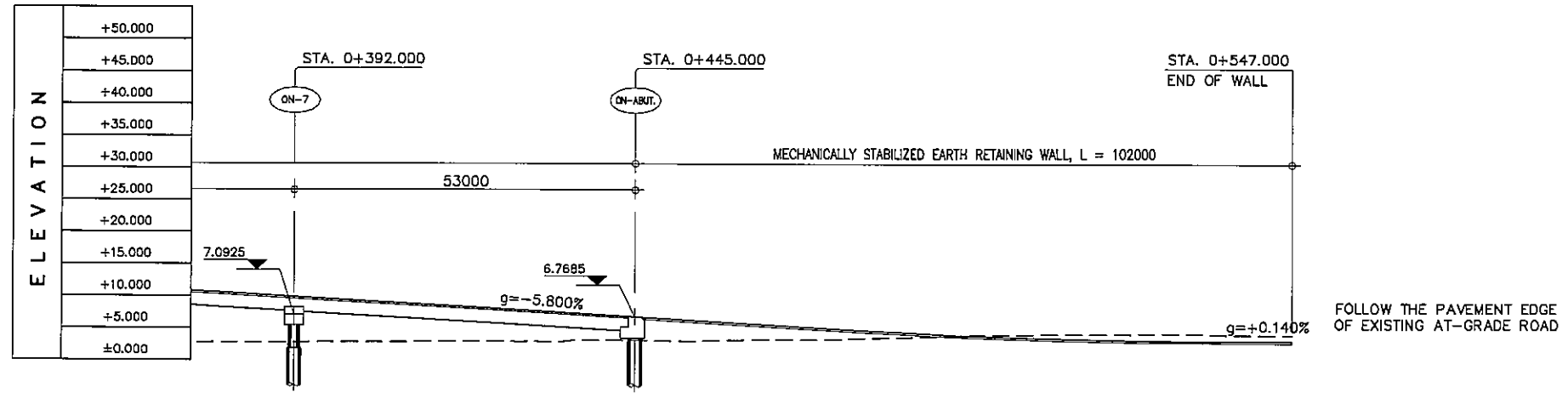
STATION	0+100			0+200			0+300			0+400							
FINISHED GRADE ELEVATION			13.780	13.840	13.692	13.690	13.632	13.720	13.580	13.440	13.300	13.160	12.892	12.370	11.592	10.580	9.400
EXISTING GROUND ELEVATION	3.096	2.974	3.002	2.726	2.851	3.138	2.935	2.891	3.006	2.881	2.946	2.806	2.827	2.729	3.143	2.753	2.881

**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	<b>GENERAL PLAN &amp; ELEVATION DOMESTIC ROAD ON RAMP</b>	I-05
			SHEET NO.
			1 OF 2



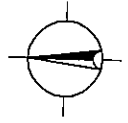
**GENERAL PLAN**  
SCALE 1:1000



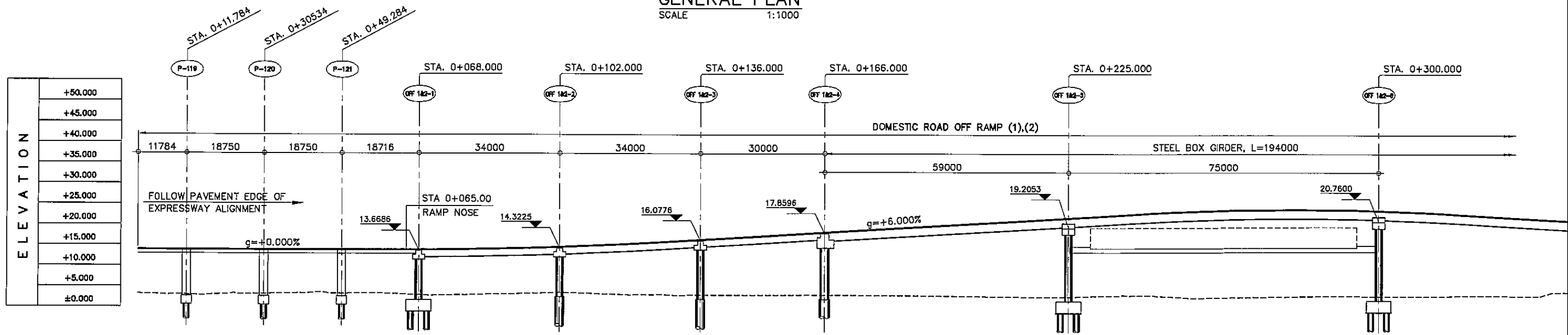
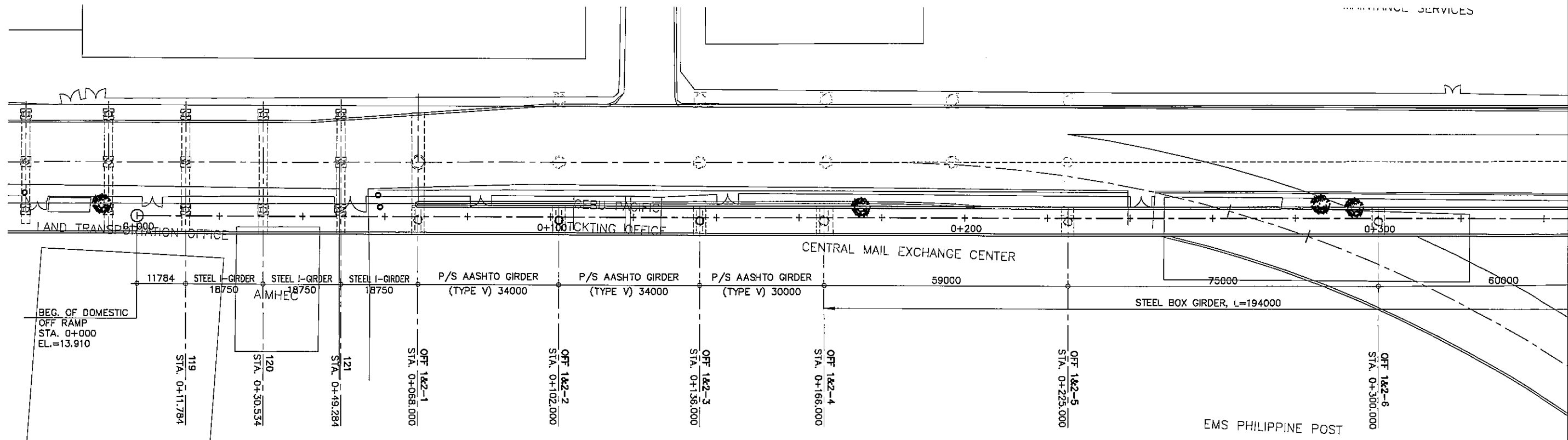
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	0+400				0+500							
FINISHED GRADE ELEVATION	10.560	9.400	8.240	7.080	5.920	4.760	3.797	3.231	3.062	3.072		
EXISTING GROUND ELEVATION	2.753	2.861	2.963	3.123	3.200	3.481	4.042	4.171	4.037	4.014		

	PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
	<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD ON RAMP	I-06
				SHEET NO. <b>2</b> OF <b>2</b>

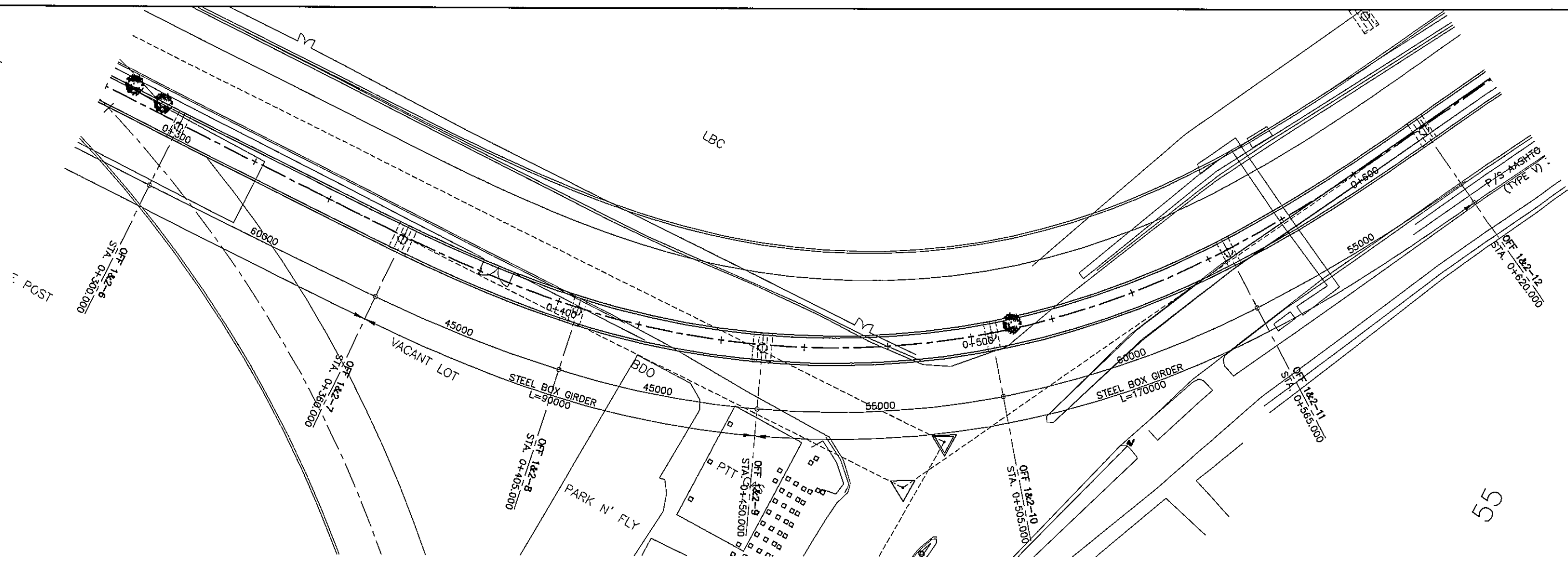
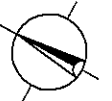


PHILIPPINE SERVICES

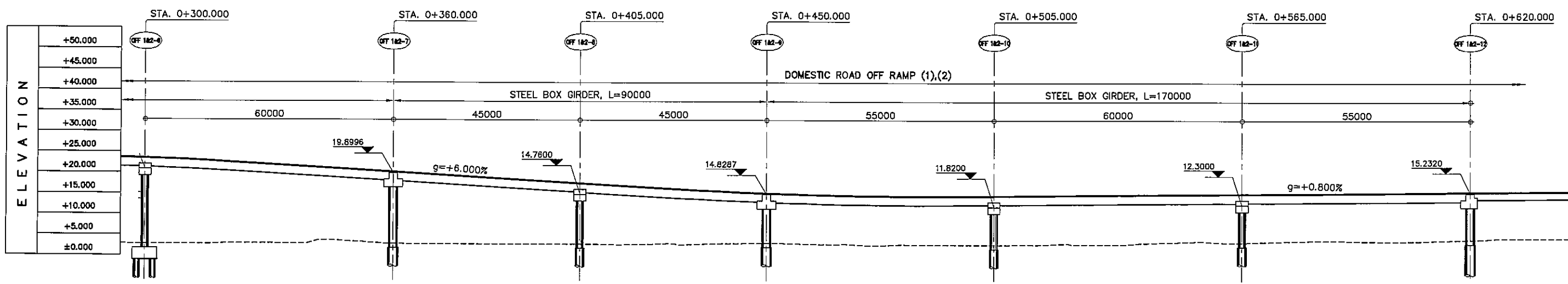


STATION	0+000					0+100						0+200						0+300	
FINISHED GRADE ELEVATION	13.910	13.910	13.910	13.910	14.023	14.523	15.423		16.610	17.810	19.010	20.210	21.410	22.610	23.510	23.810	23.510	22.610	21.410
EXISTING GROUND ELEVATION	3.192	3.083	3.358	3.341	2.985	3.467	2.984		2.916	2.975	2.862	2.701	2.491	2.907	2.420	2.721	2.764	2.908	3.113

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 OFF RAMP 1	I-07
			SHEET NO.
			1 OF 4



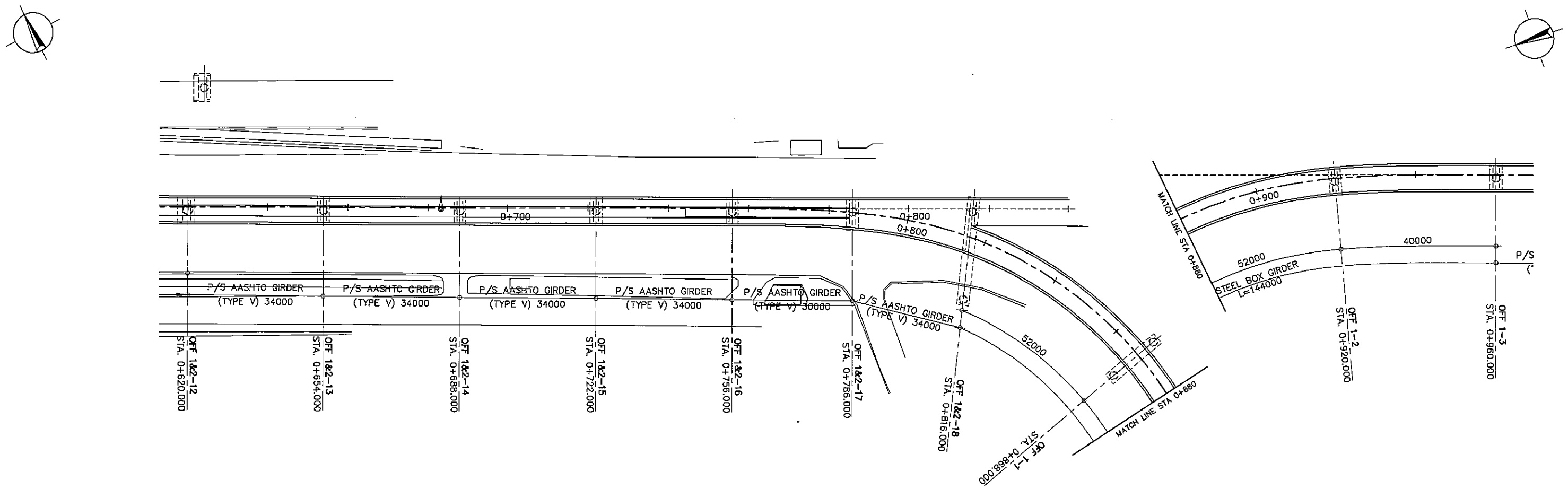
**GENERAL PLAN**  
SCALE 1:1000



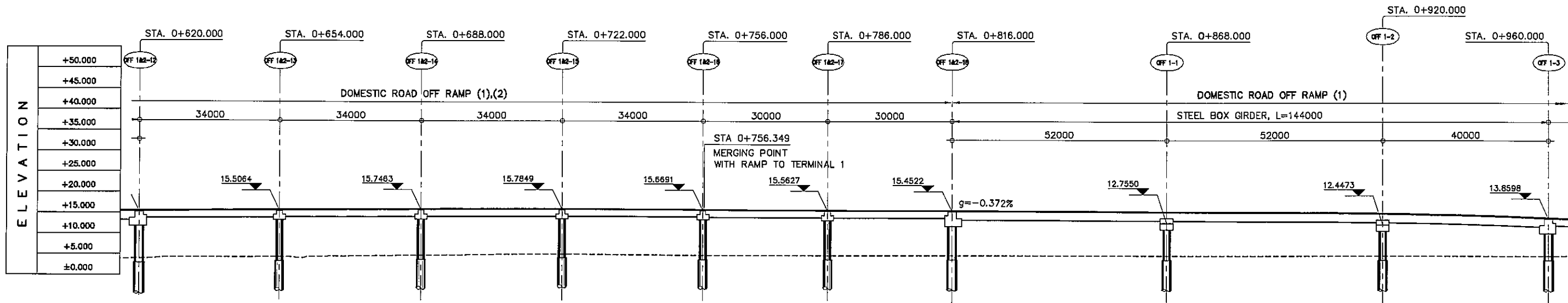
STATION	0+300			0+400			0+500			0+600								
FINISHED GRADE ELEVATION	23.510	22.610	21.410	20.210	19.010	17.810	16.610	15.519	14.479	14.530	14.680	14.850	15.010	15.170	15.330	15.490	15.650	
EXISTING GROUND ELEVATION	2.764	2.909	3.113	2.824	2.766	2.760	2.724	2.920	2.859	2.597	2.676	2.882	3.062	3.258	3.734	3.524	3.946	4.304

**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 OFF RAMP 1	I-08
			SHEET NO.
			2 OF 4



GENERAL PLAN  
SCALE 1:1000

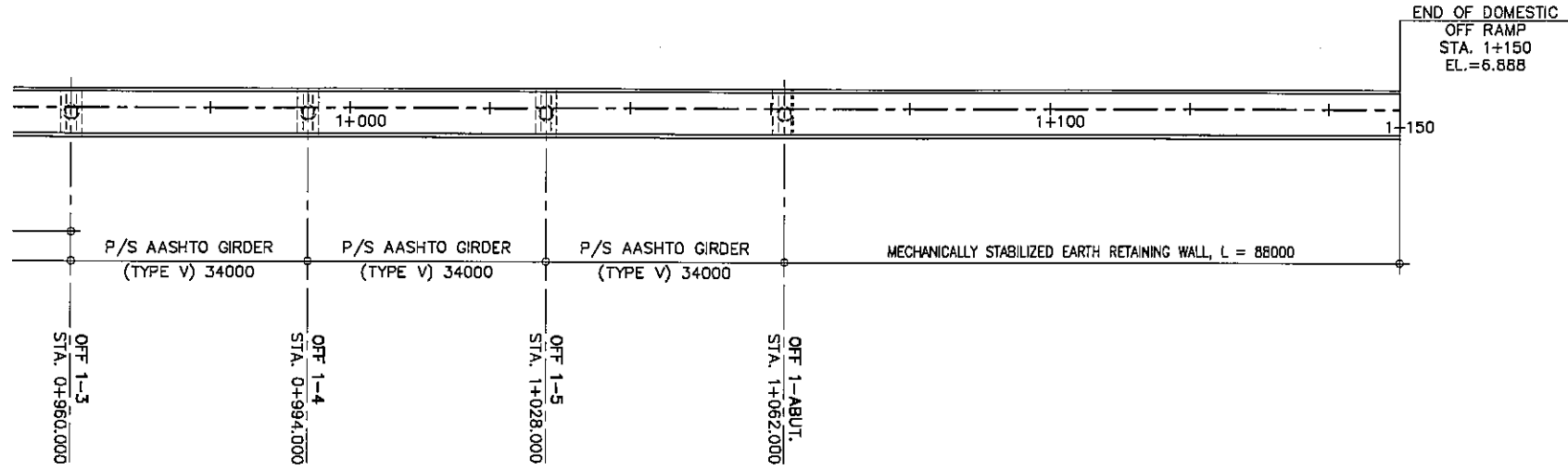
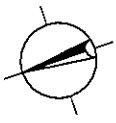


STATION	0+700						0+800						0+900					
FINISHED GRADE ELEVATION	15.490	15.650	15.810	15.960	16.042	16.046	15.981	15.907	15.832	15.758	15.684	15.609	15.535	15.460	15.386	15.199	14.787	14.150
EXISTING GROUND ELEVATION	3.946	4.304	4.208	4.728	4.933	5.173	4.944	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910

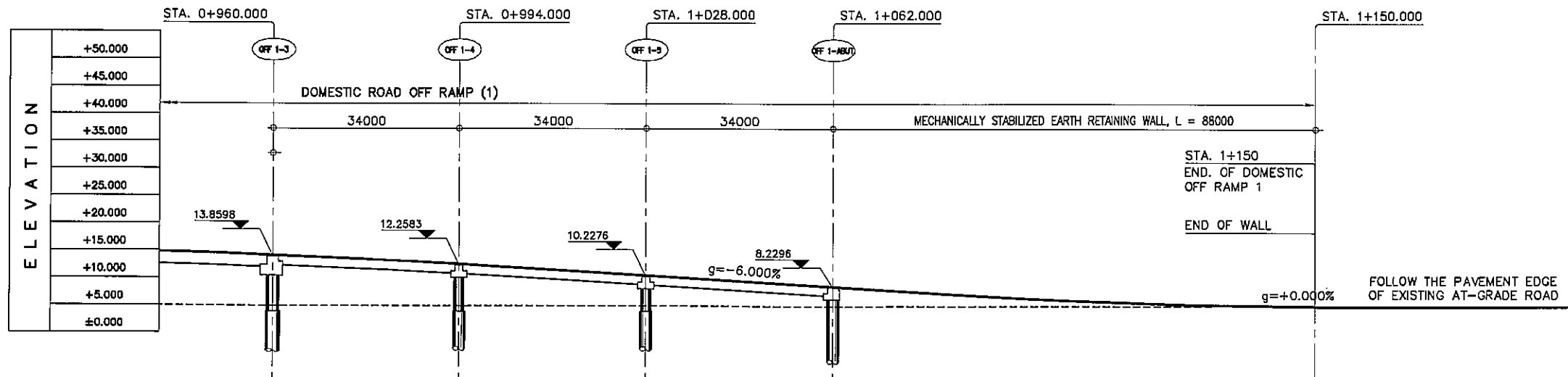
GENERAL ELEVATION  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 OFF RAMP 1	I-09
			SHEET NO.
			3 OF 4





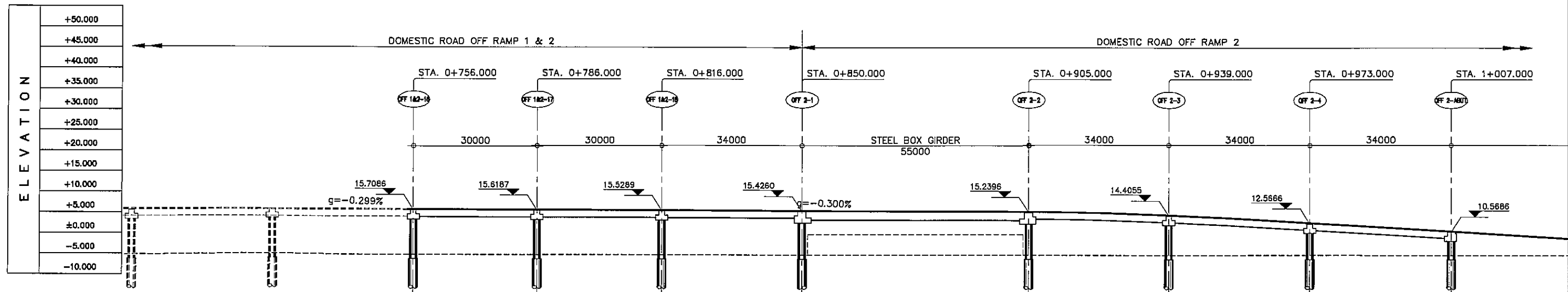
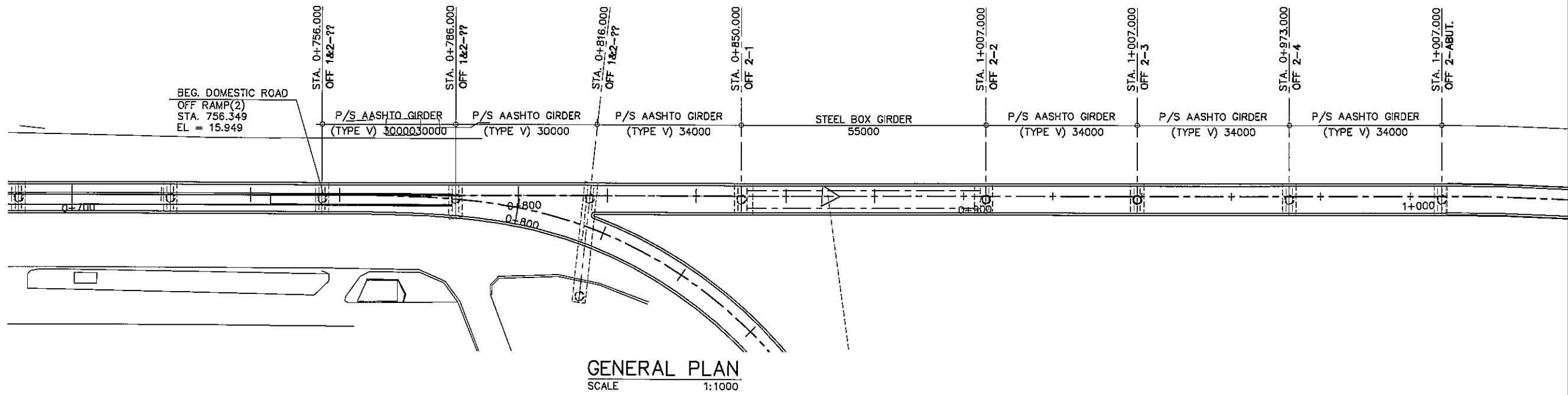
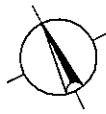
GENERAL PLAN  
SCALE 1:1000



GENERAL ELEVATION  
SCALE 1:1000

STATION	0+960.000	0+994.000	1+028.000	1+062.000	1+150.000
FINISHED GRADE ELEVATION	14.150	13.287	12.200	11.000	8.600
EXISTING GROUND ELEVATION	4.910	4.910	4.910	4.890	4.780

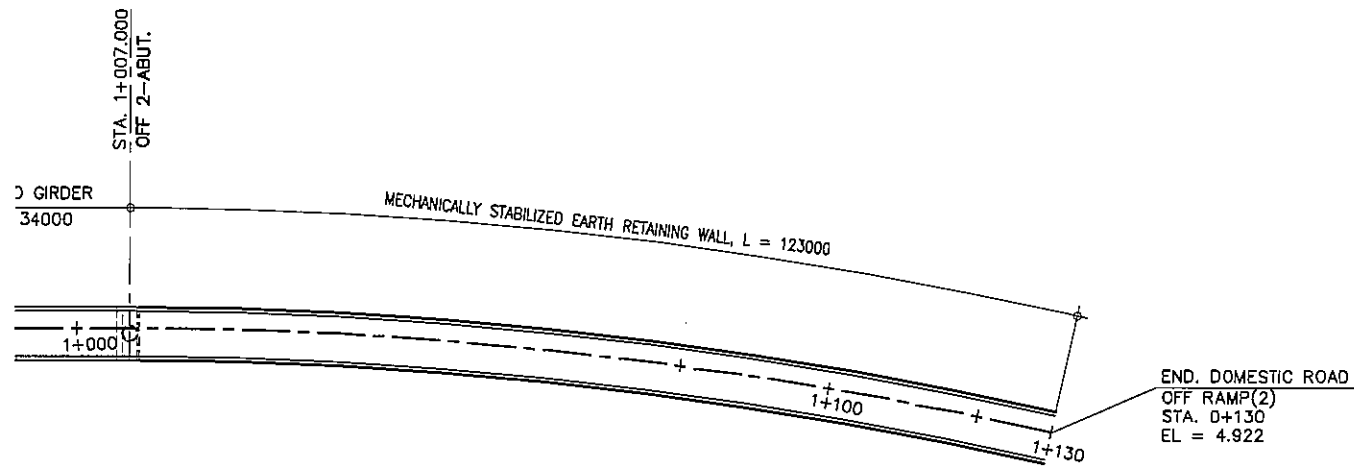
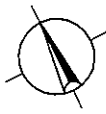
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 OFF RAMP 1	1-10
			SHEET NO.
			4 OF 4



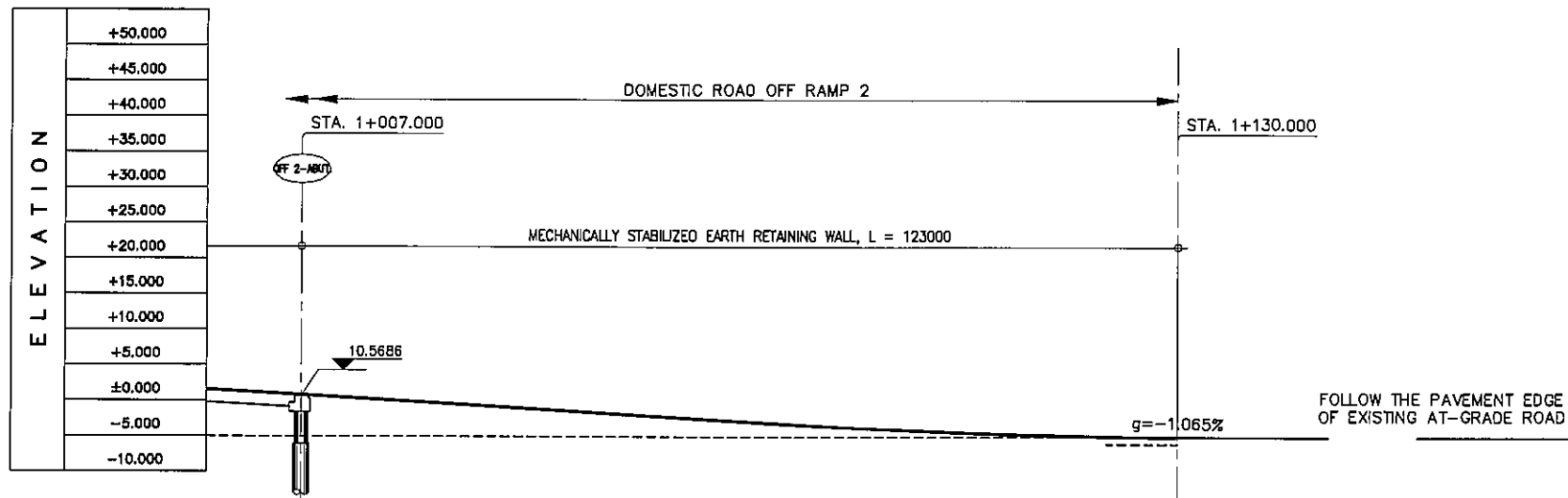
STATION	0+700				0+800				0+900				1+000			
FINISHED GRADE ELEVATION	16.046	16.059	16.008	15.949	15.889	15.829	15.769	15.709	15.649	15.589	15.529	15.469	15.409	15.349	15.289	15.229
EXISTING GROUND ELEVATION	4.933	5.173	4.944	4.910	4.910	4.910	4.930	4.930	4.930	4.930	4.910	4.900	4.980	4.990	4.900	4.920

**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 / OFF RAMP 2	1-11
			SHEET NO.
			1 OF 2



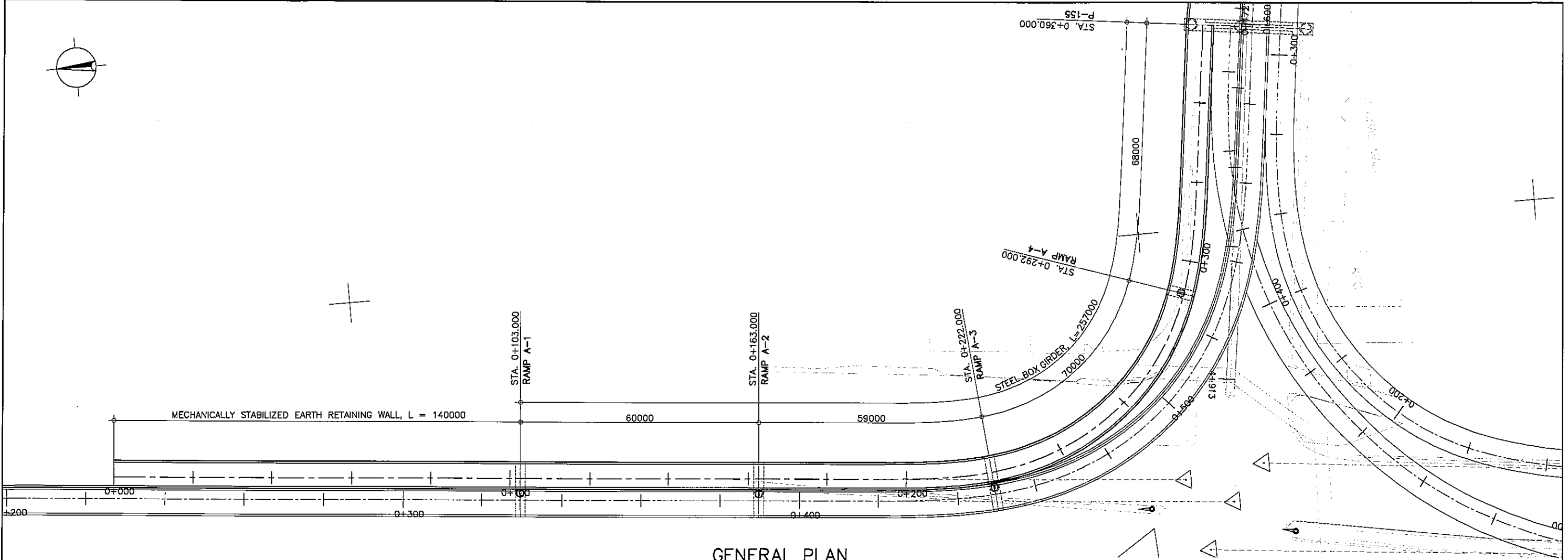
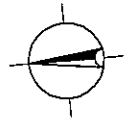
**GENERAL PLAN**  
SCALE 1:1000



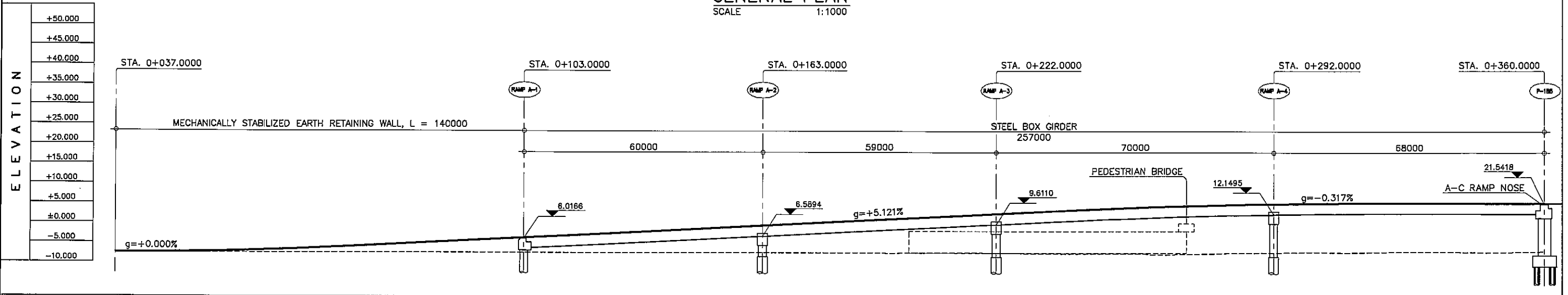
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	1+000					1+100				
FINISHED GRADE ELEVATION	11.239	10.039	8.839	7.639	6.438	5.238	4.038	2.838	1.638	4.922
EXISTING GROUND ELEVATION	4.900	4.920	4.900	4.920	4.920	4.910	4.900	4.900	4.911	

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION DOMESTIC ROAD OFF RAMP 1 & 2 / OFF RAMP 2	I-12
			SHEET NO.
			2 OF 2



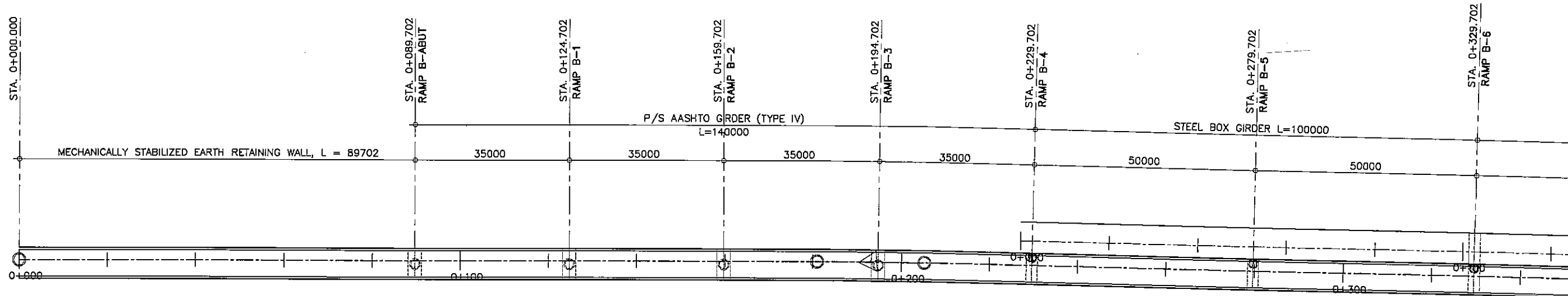
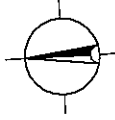
**GENERAL PLAN**  
SCALE 1:1000



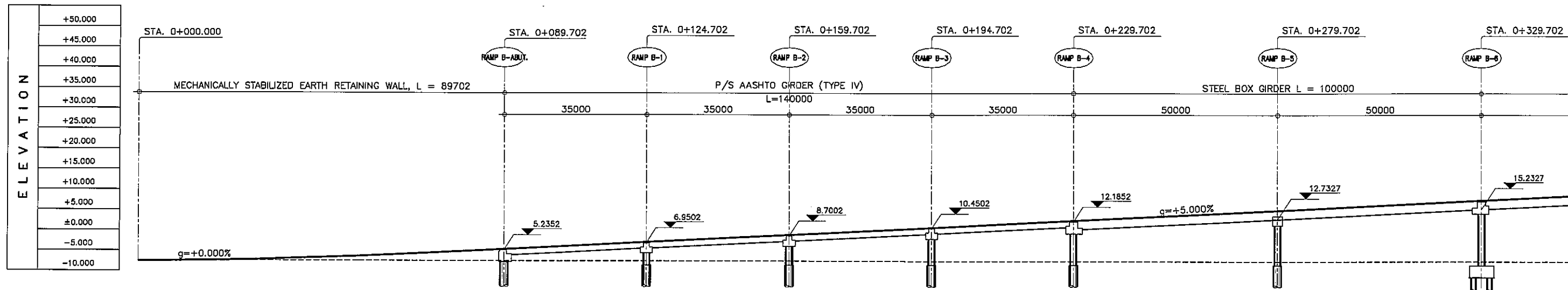
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	0 + 000	+ 100										+ 200										+ 300									
FINISHED GRADE ELEVATION	2.528	2.704	3.216	4.084	5.088	6.113	7.137	8.161	9.186	10.210	11.234	12.258	13.256	14.062	14.652	15.023	15.177	15.141	15.079												
EXISTING GROUND ELEVATION	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.480	2.454	2.451	2.489	2.328	2.219	2.406	2.702	2.755	2.730	2.829												

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	<b>GENERAL PLAN &amp; ELEVATION ROXAS BOULEVARD IC RAMP (A)</b>	<b>1-13</b>
			SHEET NO.
			<b>1 OF 1</b>



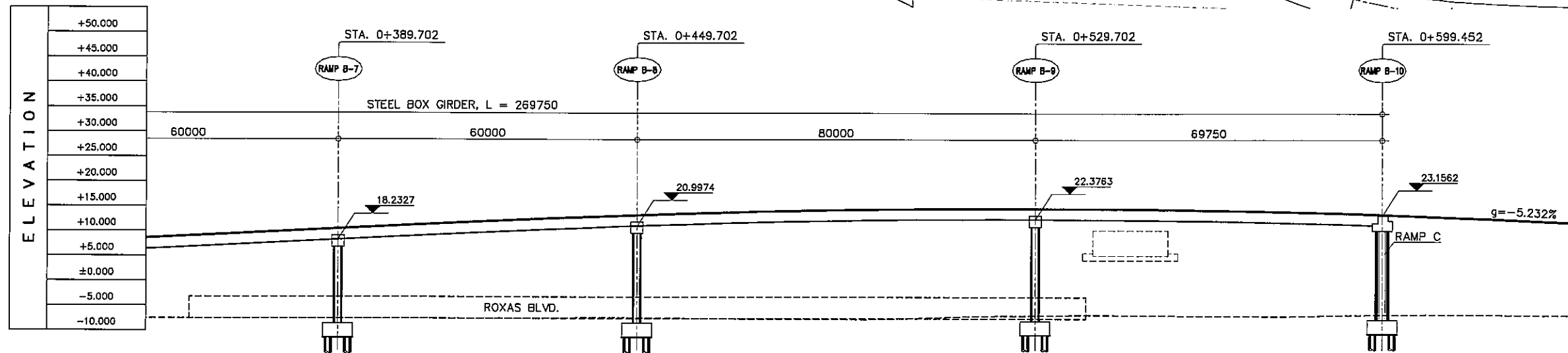
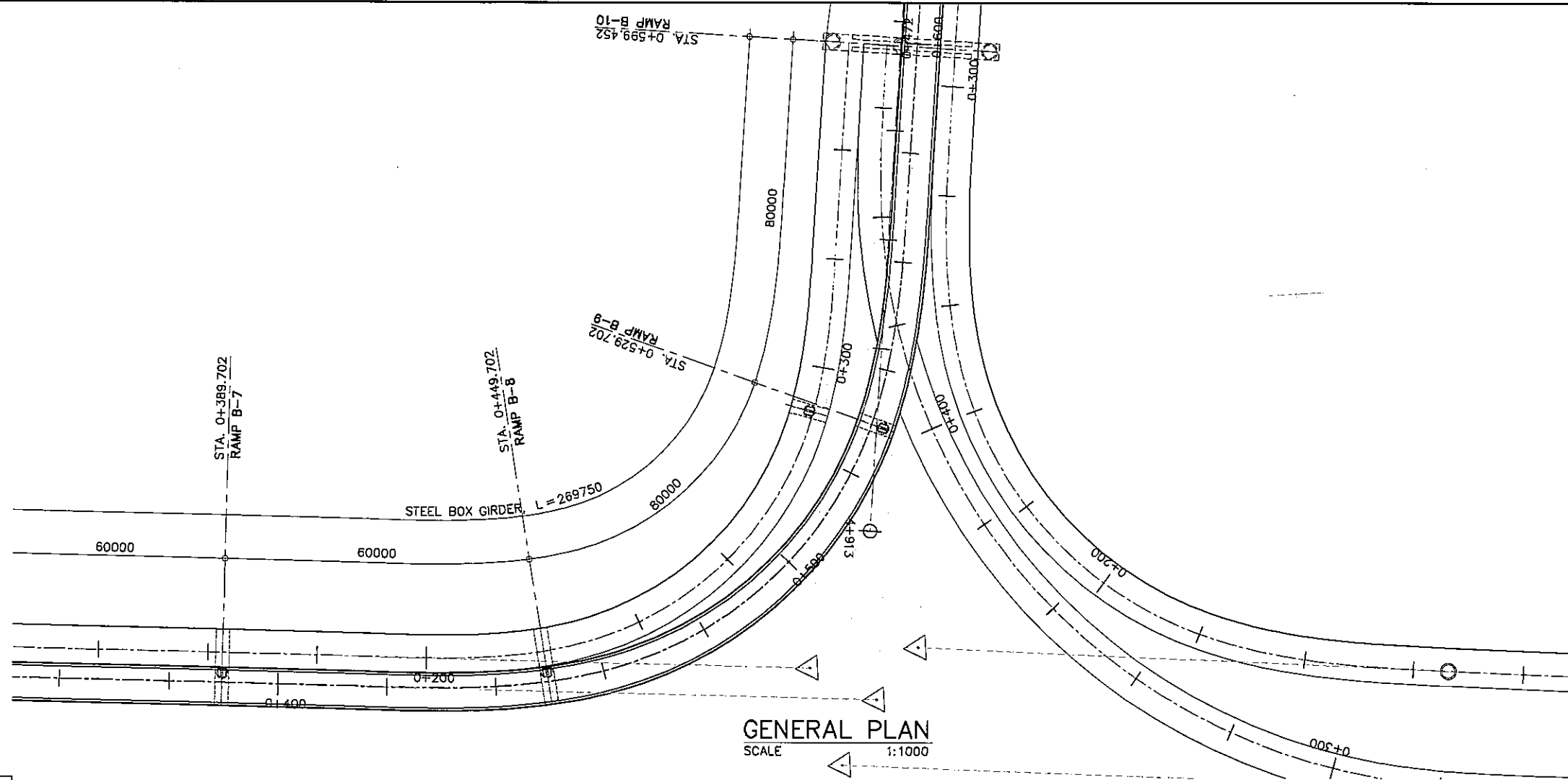
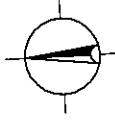
GENERAL PLAN  
SCALE 1:1000



GENERAL ELEVATION  
SCALE 1:1000

STATION	0 + 000	+ 100										+ 200										+ 300							
FINISHED GRADE ELEVATION	2.500	2.666	3.166	4.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.000	13.000	14.000	15.000	16.000	17.000	18.000											
EXISTING GROUND ELEVATION	2.501	2.501	2.501	2.506	2.517	2.517	2.517	2.512	2.502	2.483	2.483	2.480	2.480	2.480	2.480	2.480	2.480	2.480											

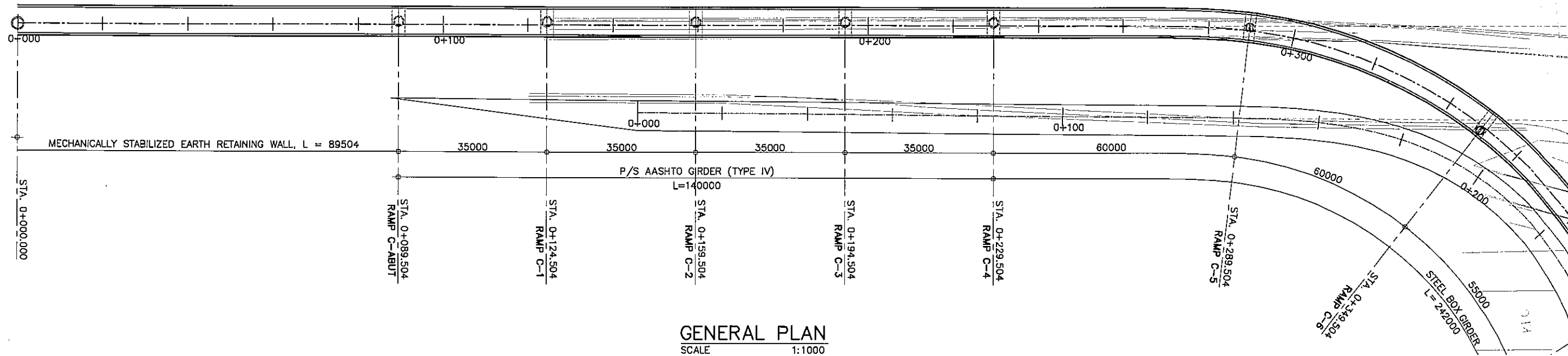
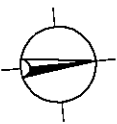
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION ROXAS BOULEVARD IC RAMP (B)	I-14
			SHEET NO.
			1 OF 2



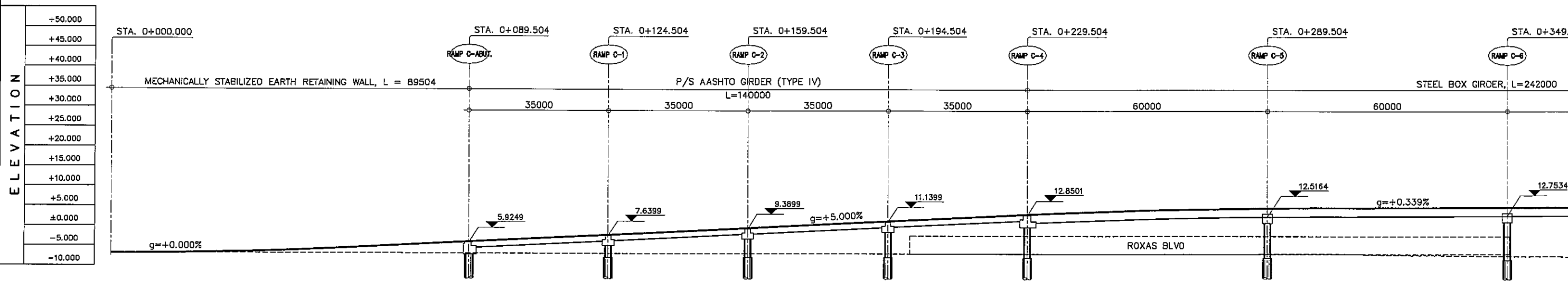
STATION	+ 400						+ 500						+ 600			
FINISHED GRADE ELEVATION	19.000	20.000	21.000	21.998	22.886	23.592	24.115	24.456	24.615	24.592	24.386	23.989	23.429	22.677	21.743	
EXISTING GROUND ELEVATION	2.480	2.473	2.460	2.480	2.605	2.483	2.375	2.352	2.984	3.208	3.069	2.963	3.316	3.367	3.137	

**GENERAL ELEVATION**  
SCALE 1:1000

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	GENERAL PLAN & ELEVATION ROXAS BOULEVARD IC RAMP (B)	I-15
			SHEET NO.
			2 OF 2



GENERAL PLAN  
SCALE 1:1000

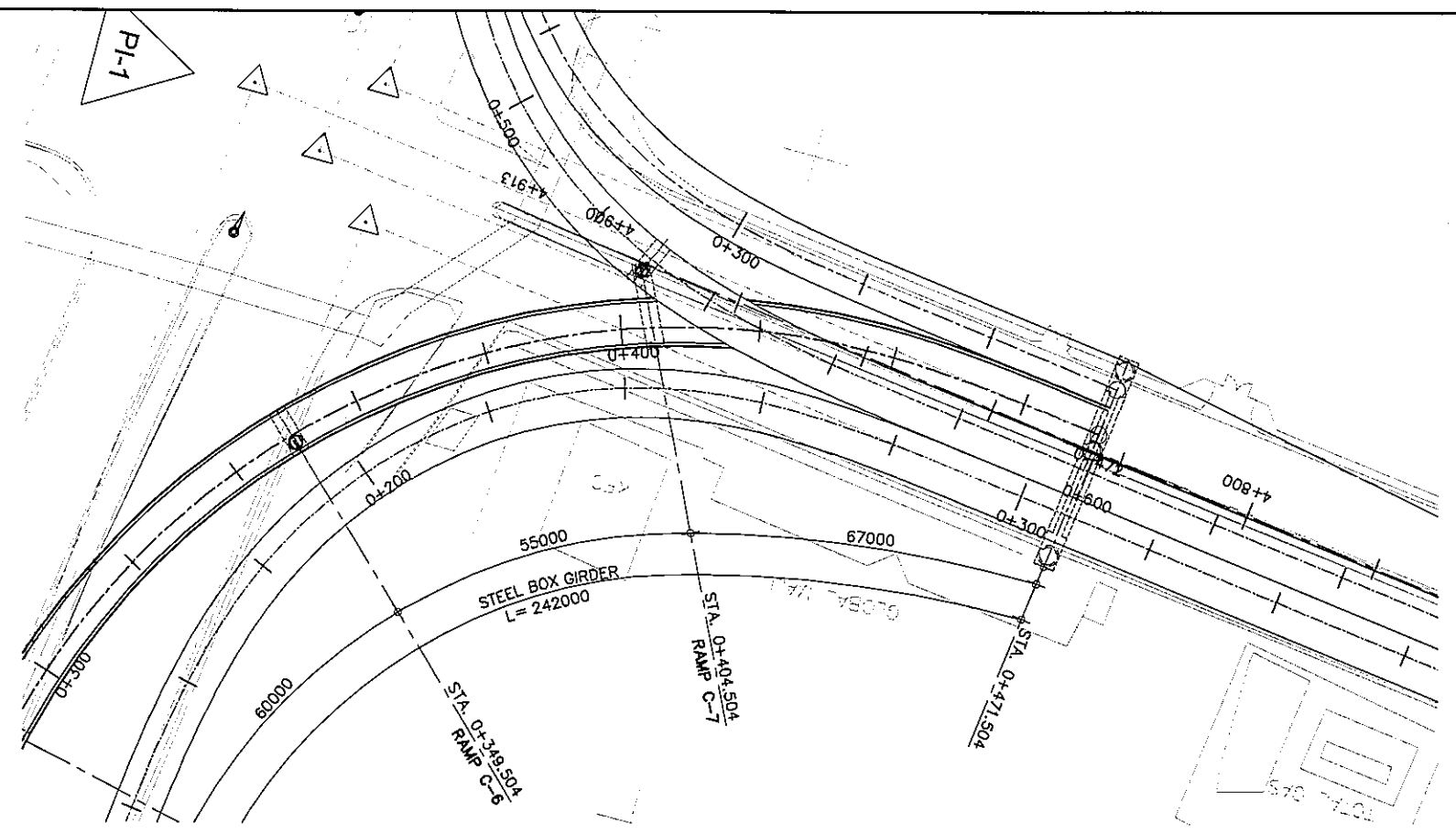
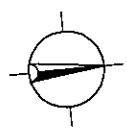


GENERAL ELEVATION  
SCALE 1:1000

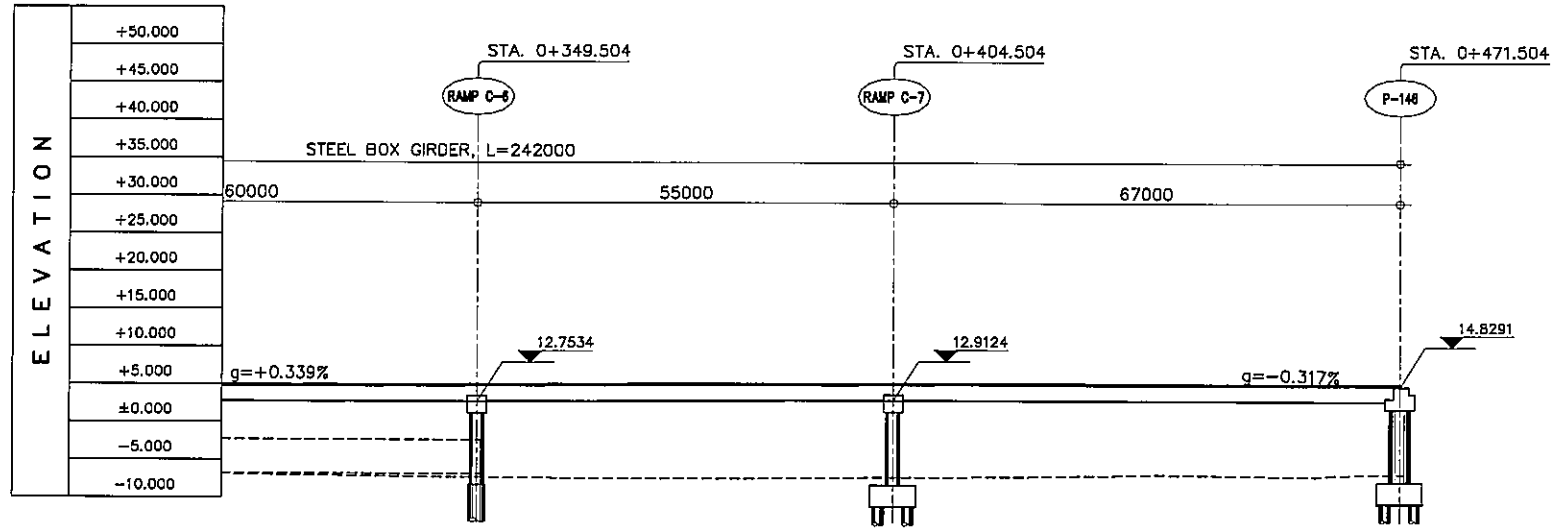
STATION	0 + 000	0 + 100	0 + 200	0 + 300
FINISHED GRADE ELEVATION	3.200	3.366	3.666	4.700
EXISTING GROUND ELEVATION	3.200	3.235	3.245	3.237

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION ROXAS BOULEVARD IC RAMP (C)	1-16
			SHEET NO.
			1 OF 2





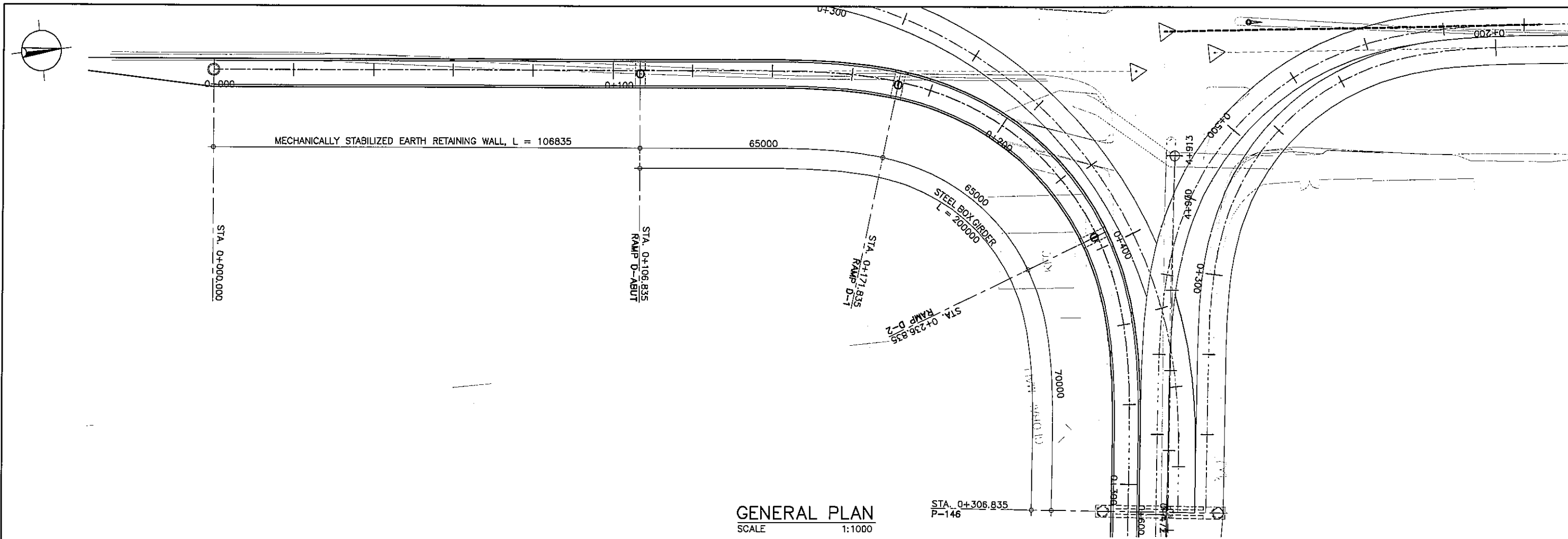
**GENERAL PLAN**  
SCALE 1:1000



**GENERAL ELEVATION**  
SCALE 1:1000

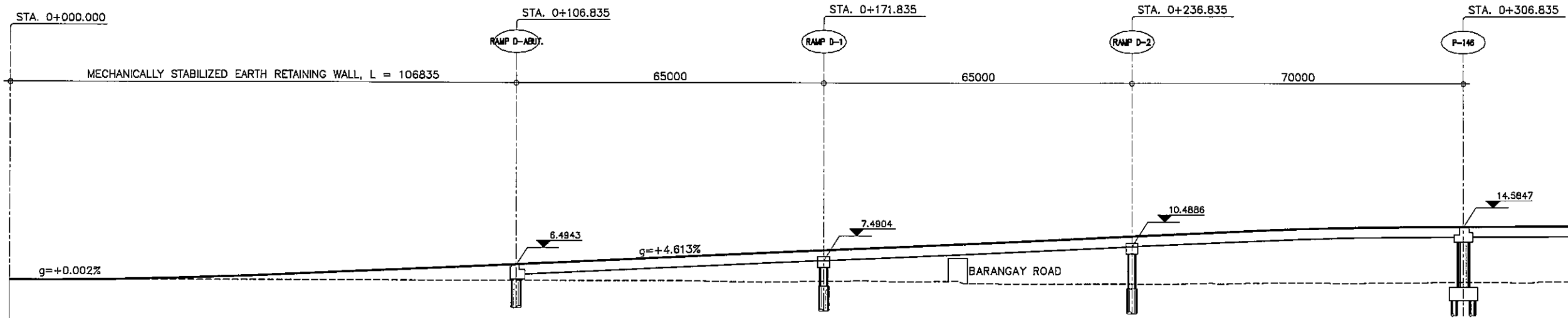
STATION		+ 400									
FINISHED GRADE ELEVATION	14.903	14.971	15.039	15.107	15.158	15.177	15.163	15.116	15.079		
EXISTING GROUND ELEVATION	3.014	2.821	2.646	2.604	2.734	2.856	3.172	2.909			

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	GENERAL PLAN & ELEVATION ROXAS BOULEVARD IC RAMP (C)	I-17
			SHEET NO.
			2 OF 2



**GENERAL PLAN**  
SCALE 1:1000

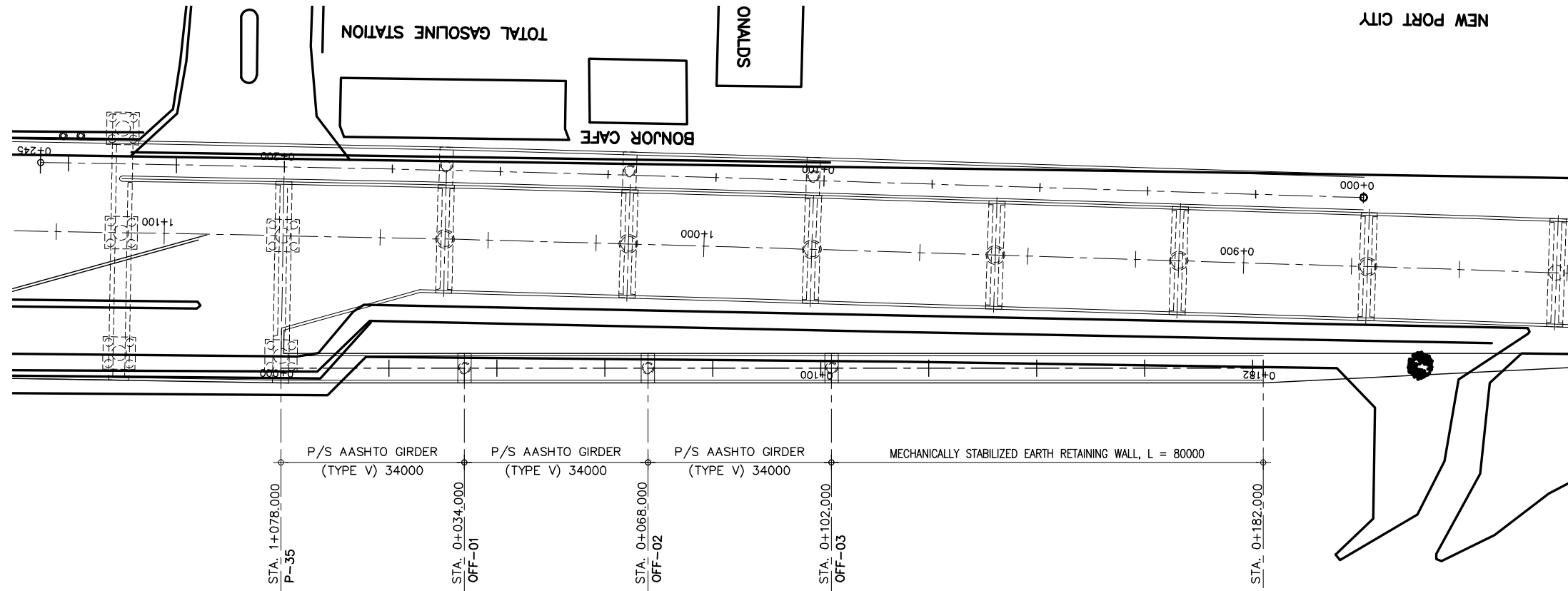
ELEVATION	+50.000
	+45.000
	+40.000
	+35.000
	+30.000
	+25.000
	+20.000
	+15.000
	+10.000
	+5.000
	±0.000
	-5.000
	-10.000



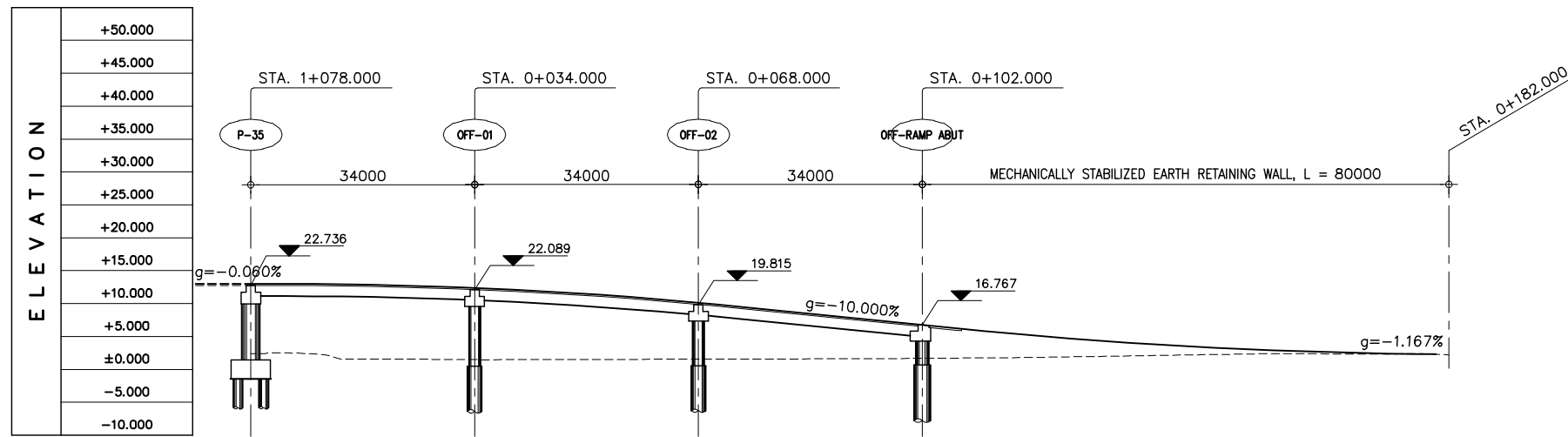
**GENERAL ELEVATION**  
SCALE 1:1000

STATION	0 + 000	+ 100										+ 200										+ 300								
FINISHED GRADE ELEVATION	3.200	3.354	3.615	4.584	5.507	6.429	7.352	8.274	9.197	10.119	11.042	11.964	12.887	13.809	14.574	14.811														
EXISTING GROUND ELEVATION	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.230	3.229	3.230	3.230	2.651	2.587	2.717	2.814	3.022														

	PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
	<b>NAIA EXPRESSWAY PHASE II</b>	AS SHOWN	<b>GENERAL PLAN &amp; ELEVATION ROXAS BOULEVARD IC RAMP (D)</b>	I-18
				SHEET NO.
				1 OF 1



**GENERAL PLAN**  
SCALE 1:1000



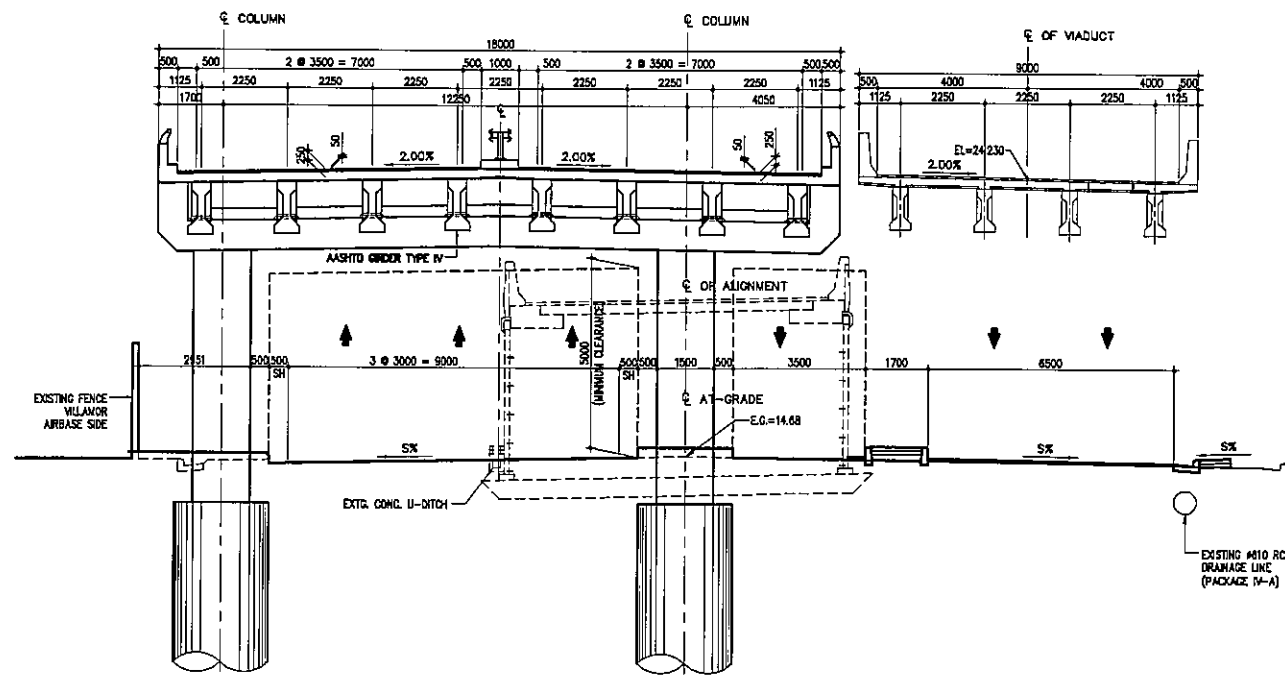
STATION	0 + 000						+ 100						+ 182		
FINISHED GRADE ELEVATION	22.986	22.815	22.095	20.806	18.967	16.967	15.073	13.652	12.736	12.319	12.231				
EXISTING GROUND ELEVATION	12.409	11.544	11.479	11.533	11.587	11.669	11.841	12.154	12.390	12.309	12.231				

**GENERAL ELEVATION**  
SCALE 1:1000

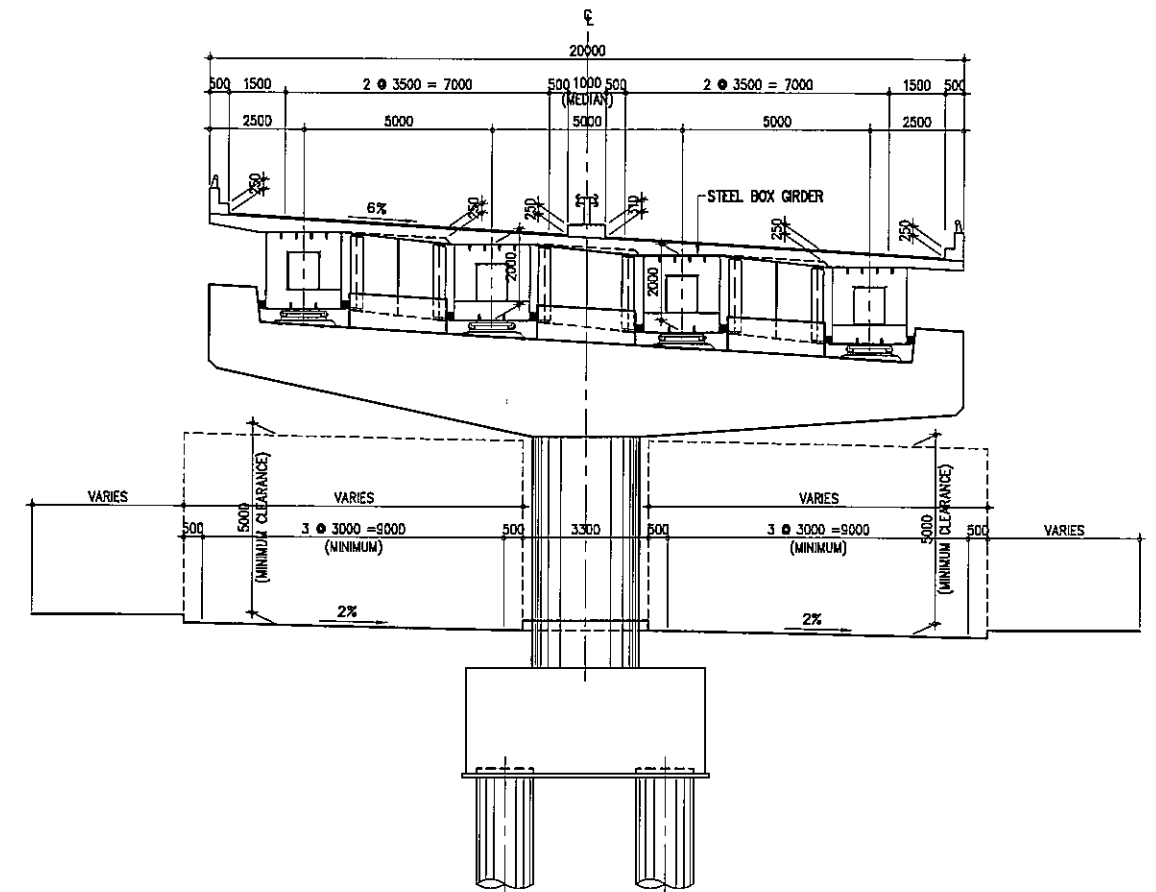
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
<b>NAIA EXPRESSWAY PHASE II</b>	<b>AS SHOWN</b>	<b>GENERAL PLAN &amp; ELEVATION OVER LOADED VEHICLE EXIT STA. 0+000 - STA. 0+182.000</b>	<b>I-19</b>
			<b>SHEET NO.</b>
			<b>1 OF 1</b>

# J. CROSS SECTION

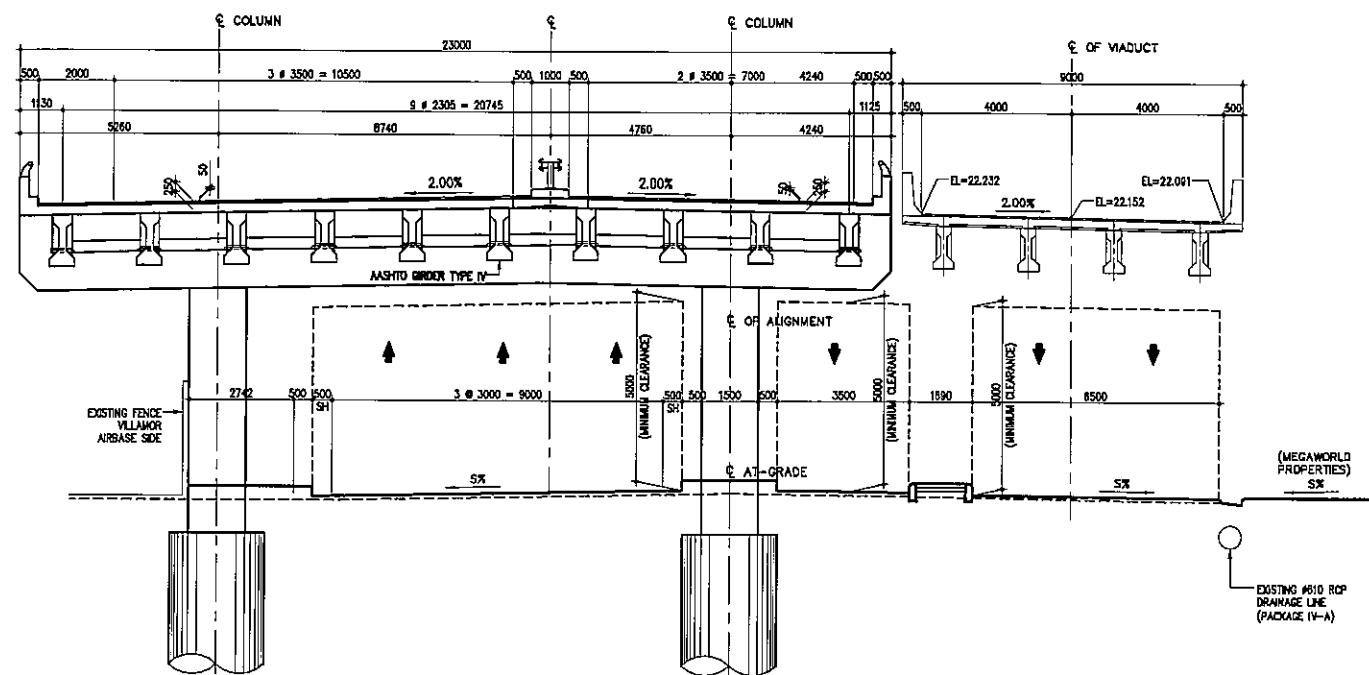
NAIA EXPRESSWAY PHASE II



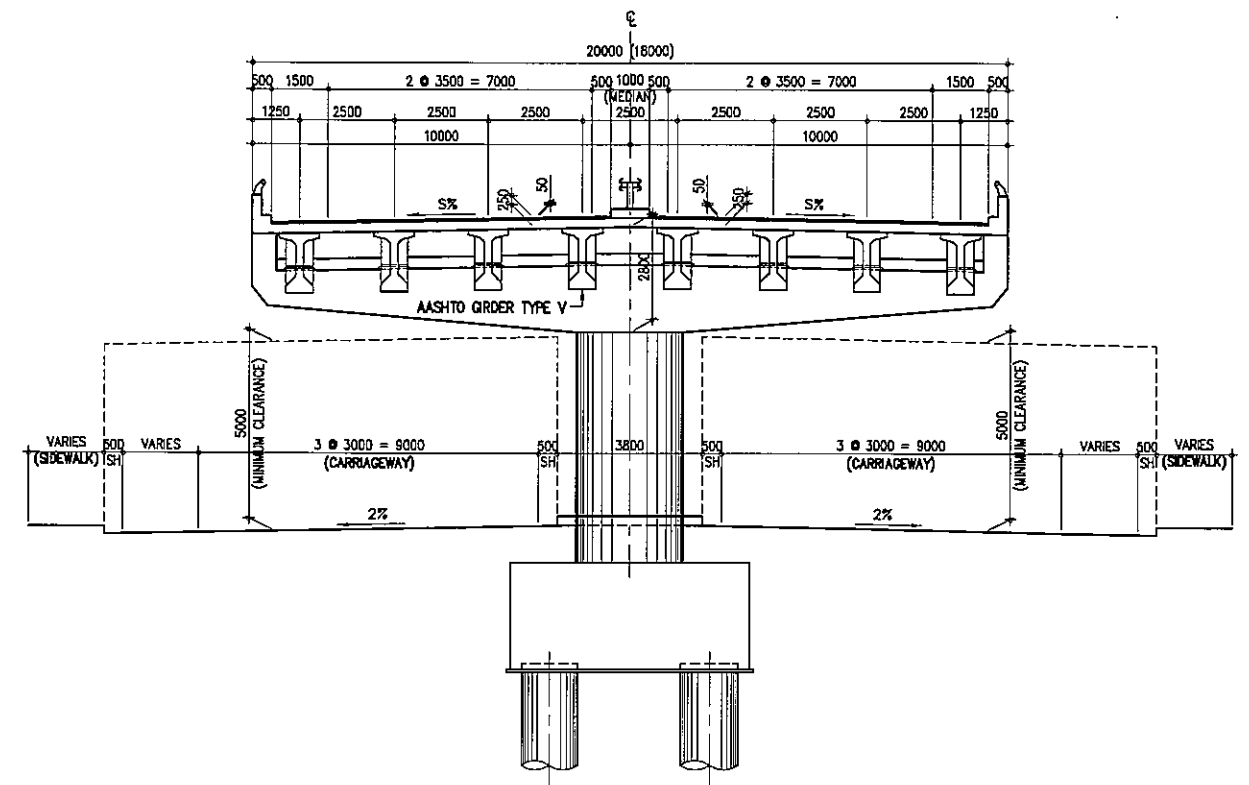
1 CROSS SECTION OF P1~P12 SALES ST.  
SCALE 1:200



3 CROSS SECTION OF P18~P21  
SCALE 1:200

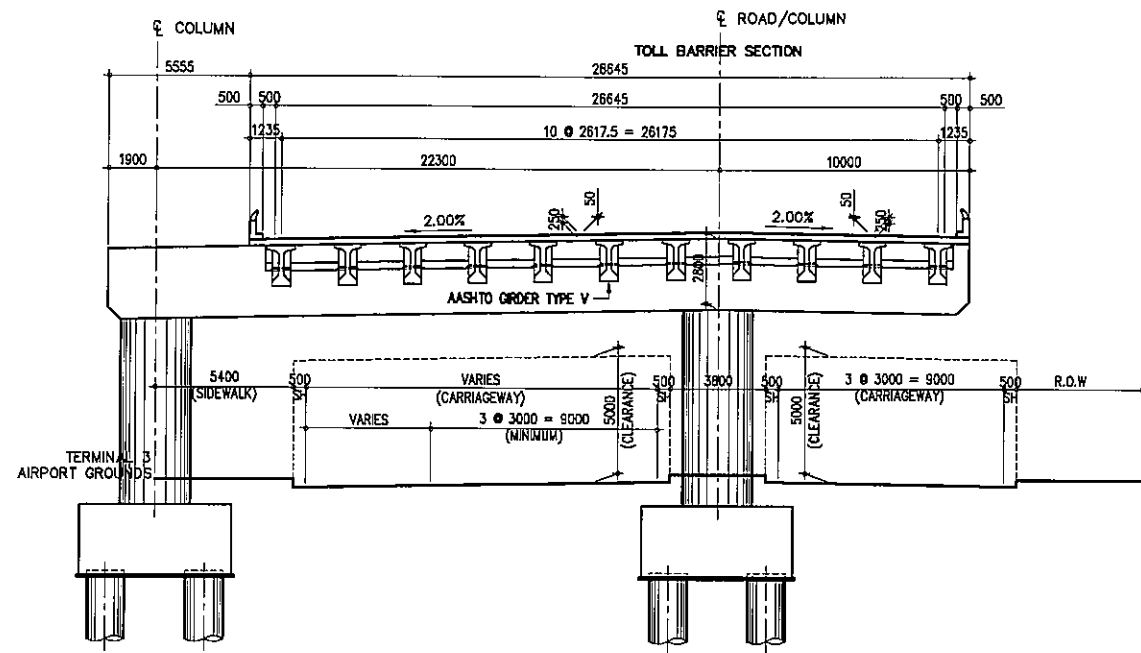


2 CROSS SECTION OF P13~P16 SALES ST.  
SCALE 1:200

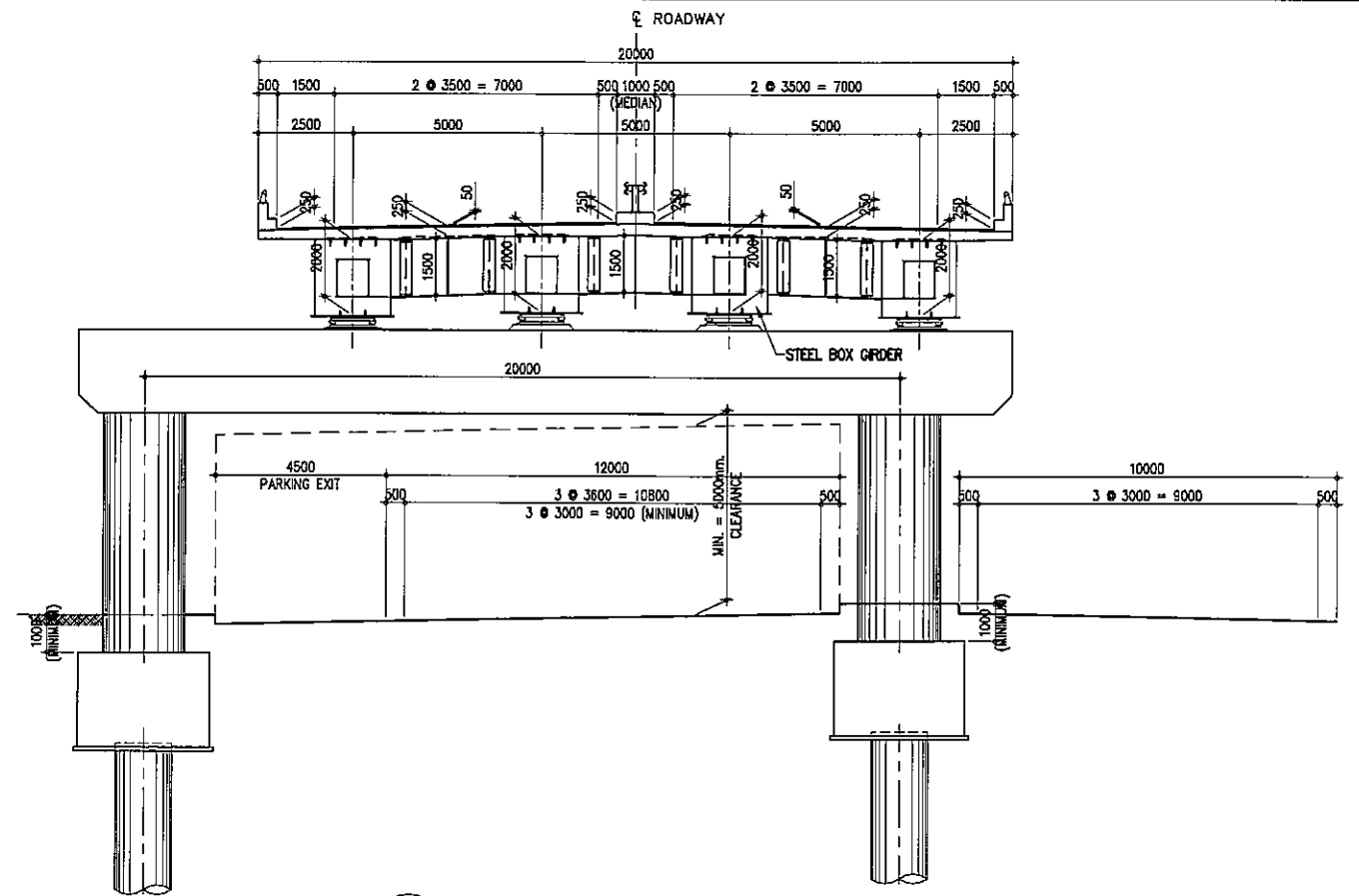


4 CROSS SECTION OF P25~P34 (P22~P24)  
SCALE 1:200

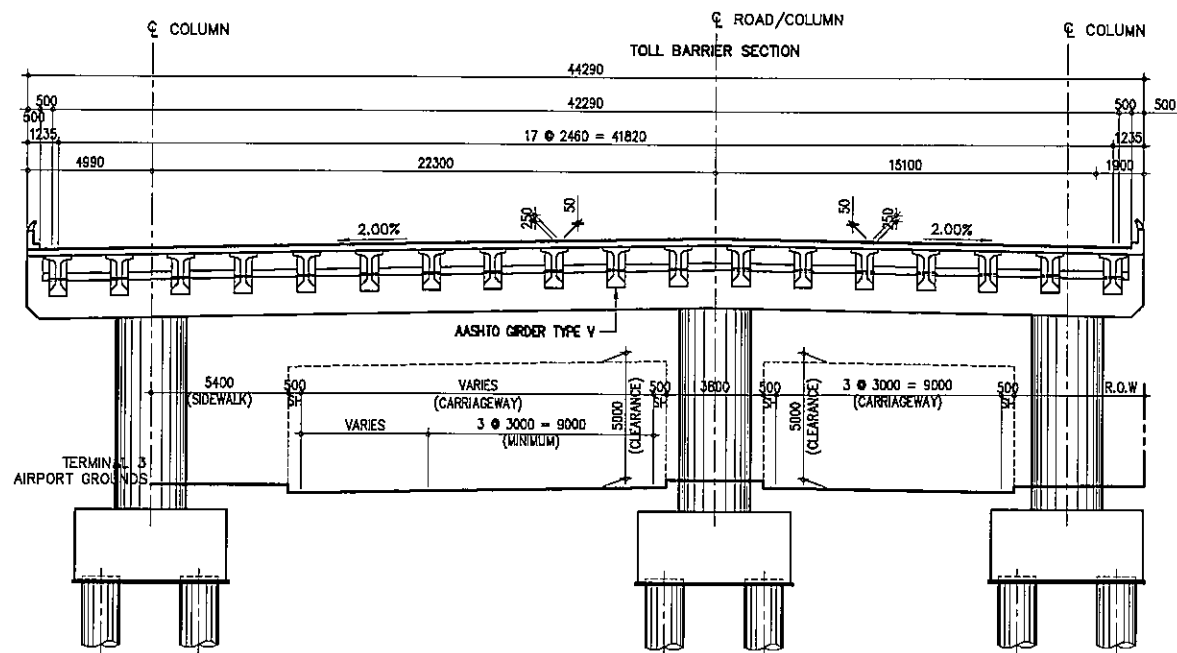
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (1/8)	J-01
			SHEET NO.
			1 OF 8



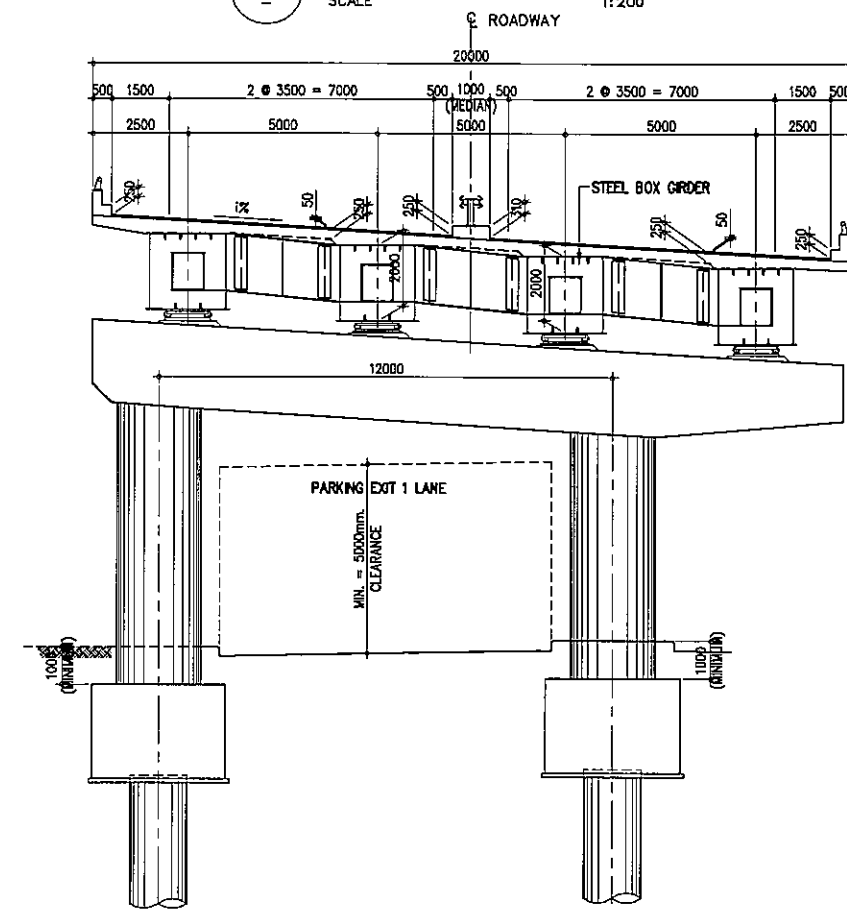
5 CROSS SECTION OF P35  
SCALE 1:300



7 CROSS SECTION OF P48  
SCALE 1:200

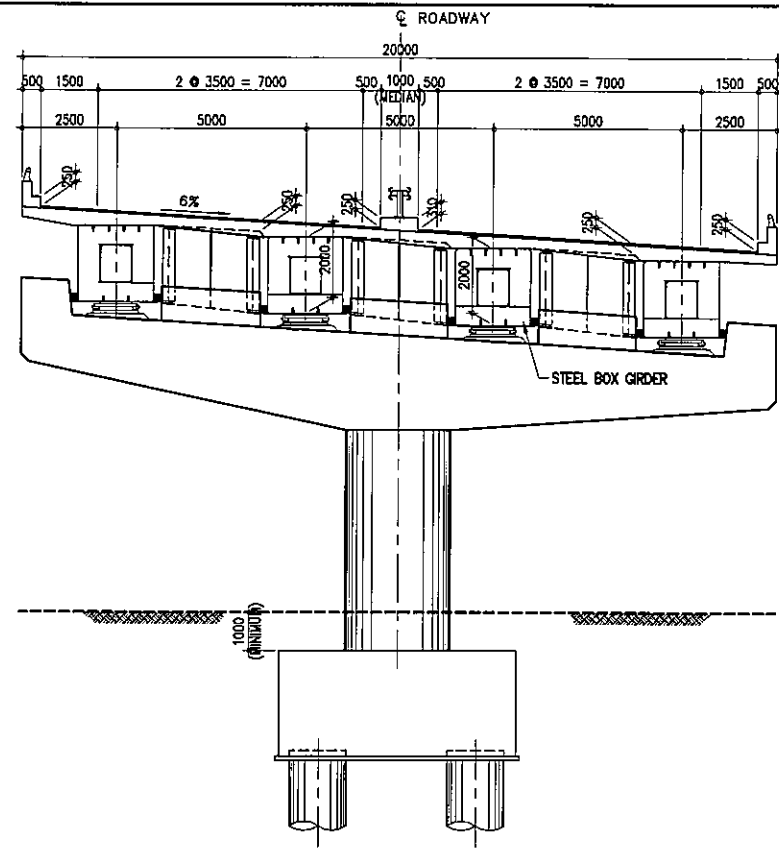


6 CROSS SECTION OF P36~P46  
SCALE 1:300

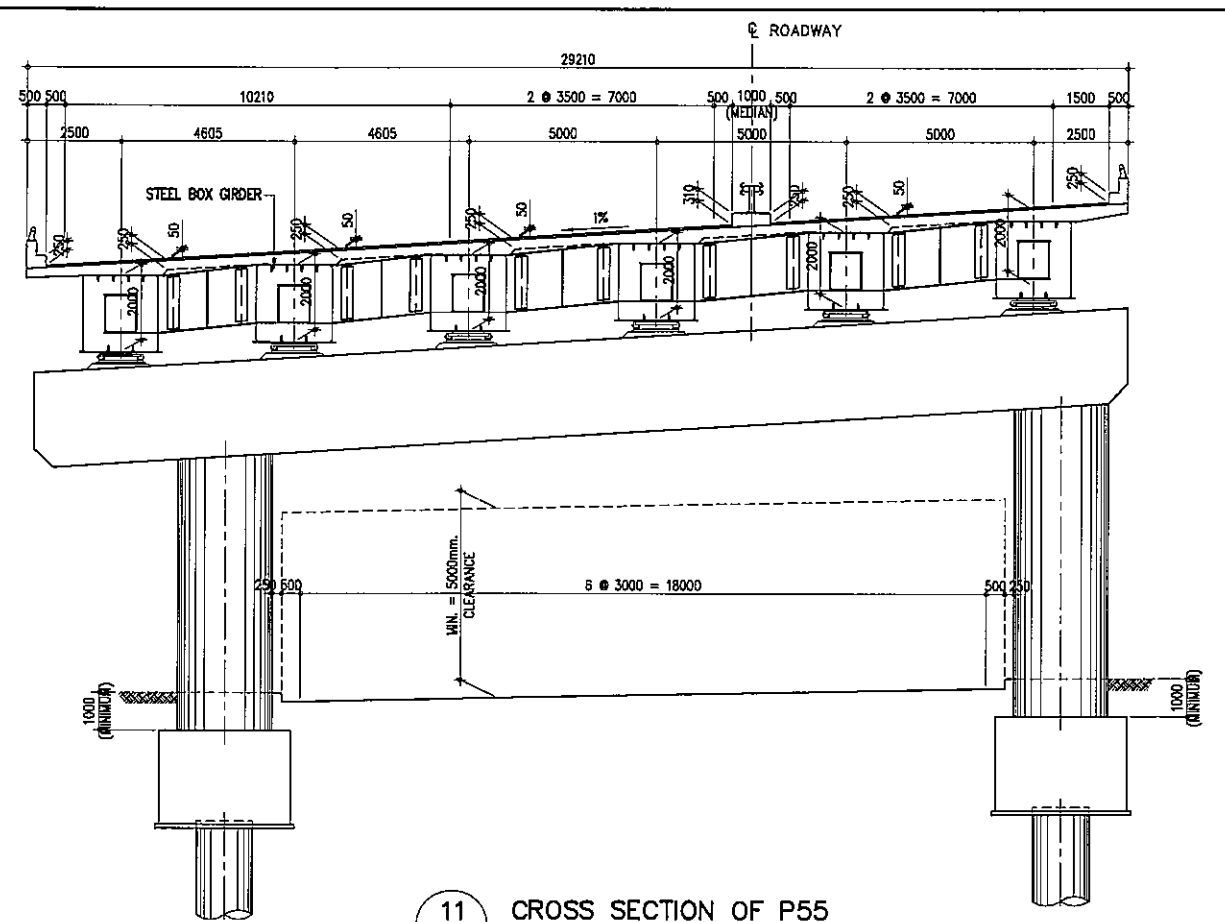


8 CROSS SECTION OF P49  
SCALE 1:200

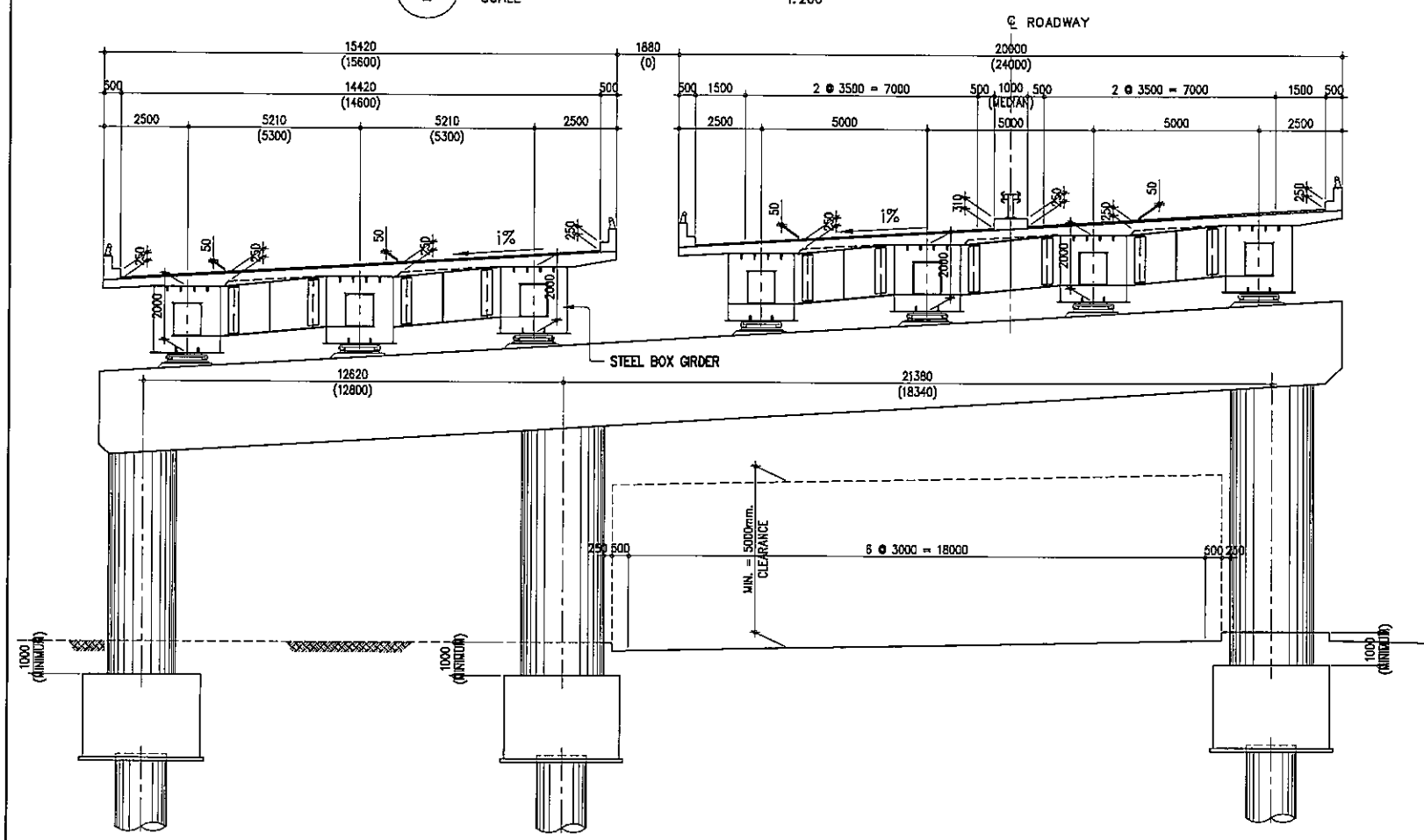
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (2/8)	J-02
			SHEET NO.
			2 OF 8



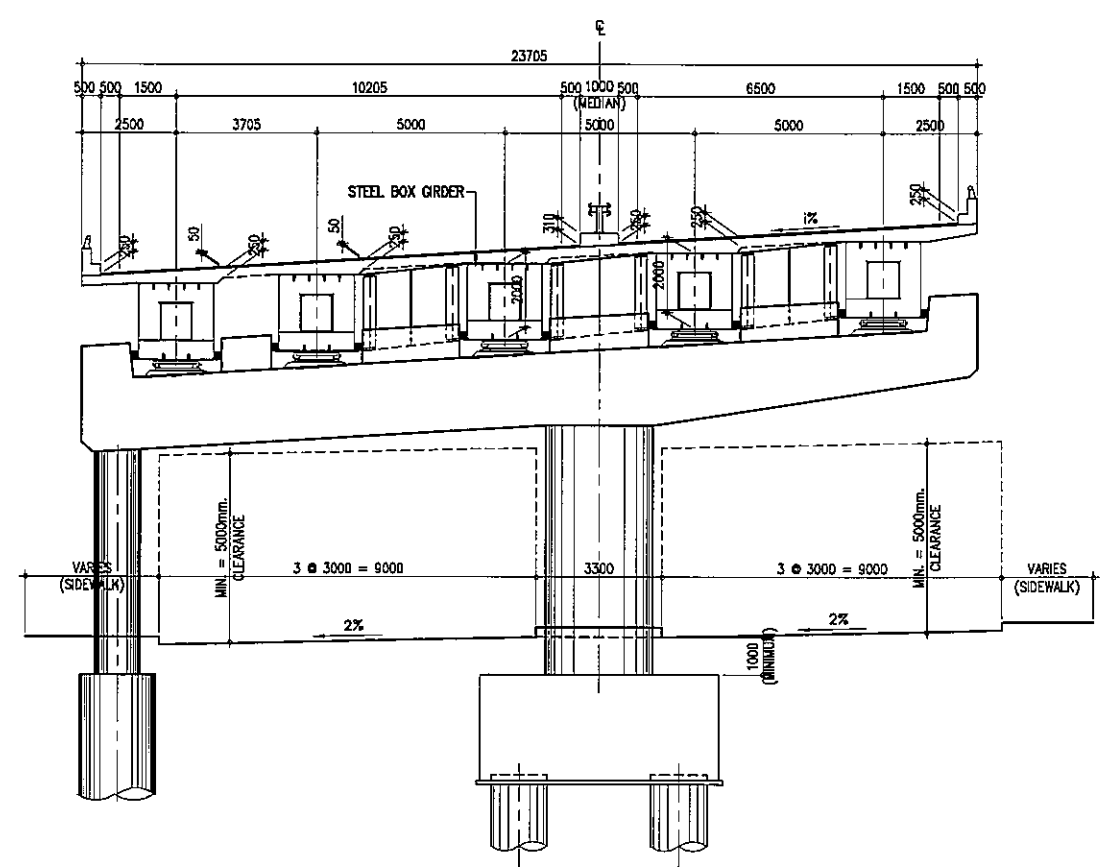
9 CROSS SECTION OF P50~P52  
SCALE 1:200



11 CROSS SECTION OF P55  
SCALE 1:200



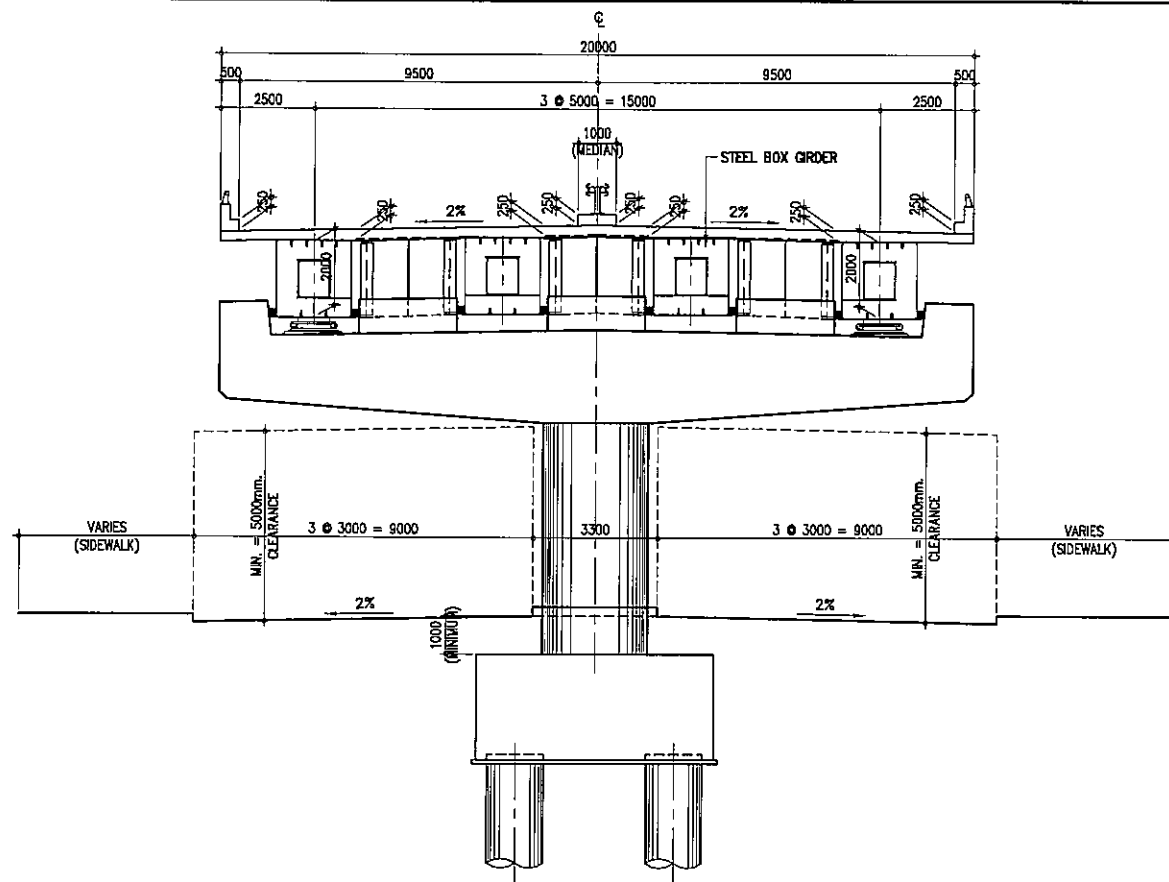
10 CROSS SECTION OF P53 (P54)  
SCALE 1:200



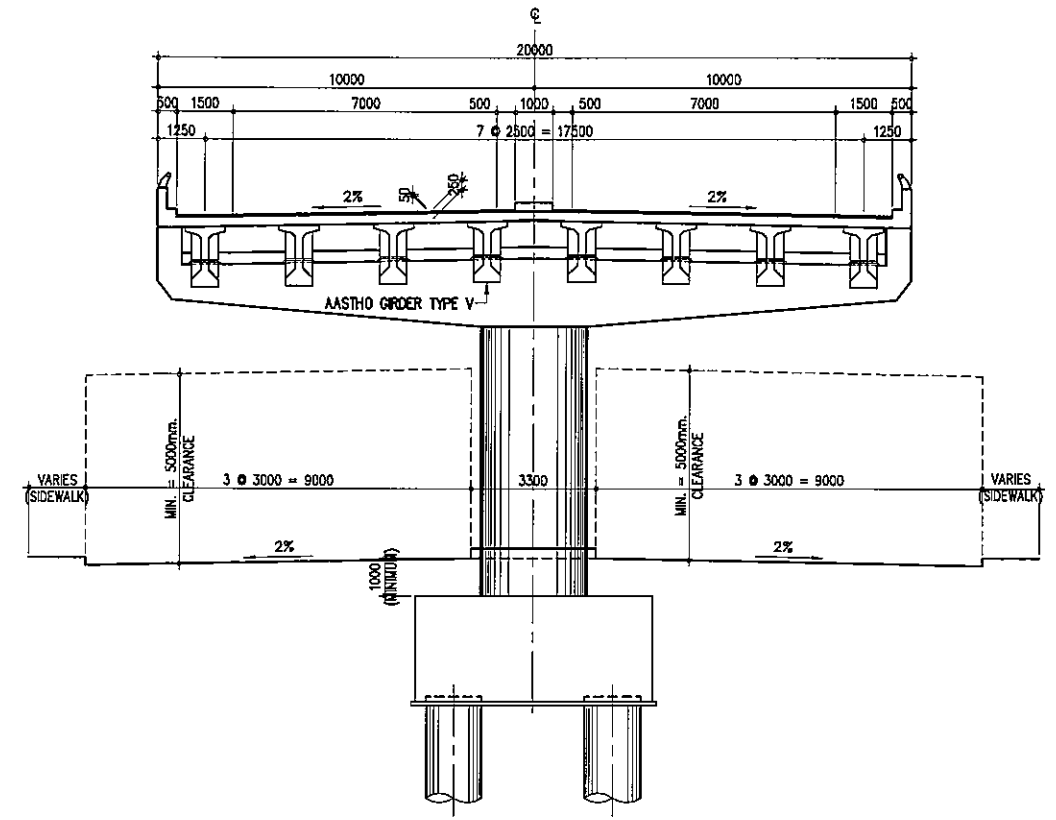
12 CROSS SECTION OF P56  
SCALE 1:200

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (3/8)	J-03
			SHEET NO.
			3 OF 8

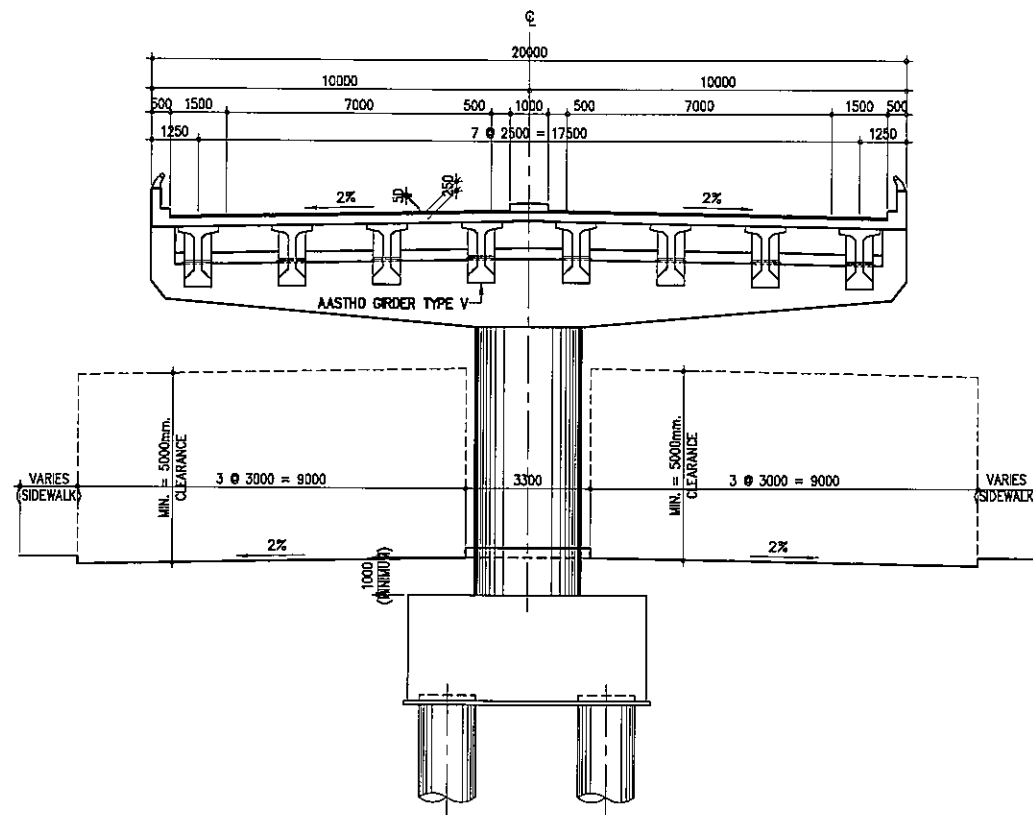




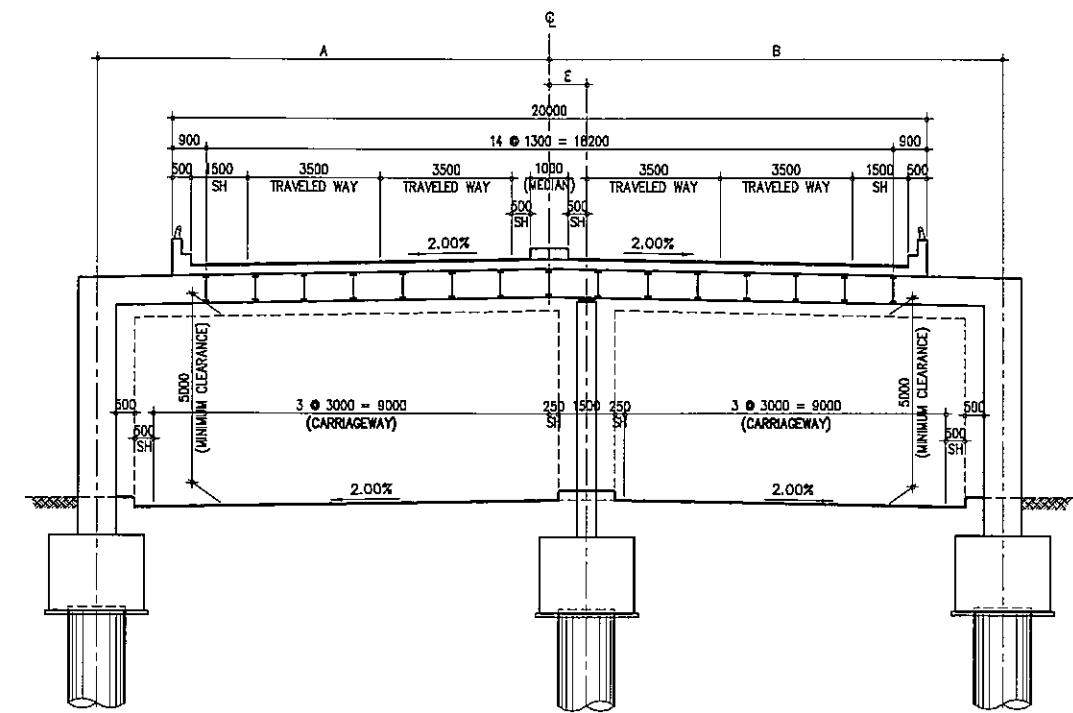
13 CROSS SECTION OF P57, P58, P71 & P72  
SCALE 1:200



15 CROSS SECTION OF P73~P78  
SCALE 1:200

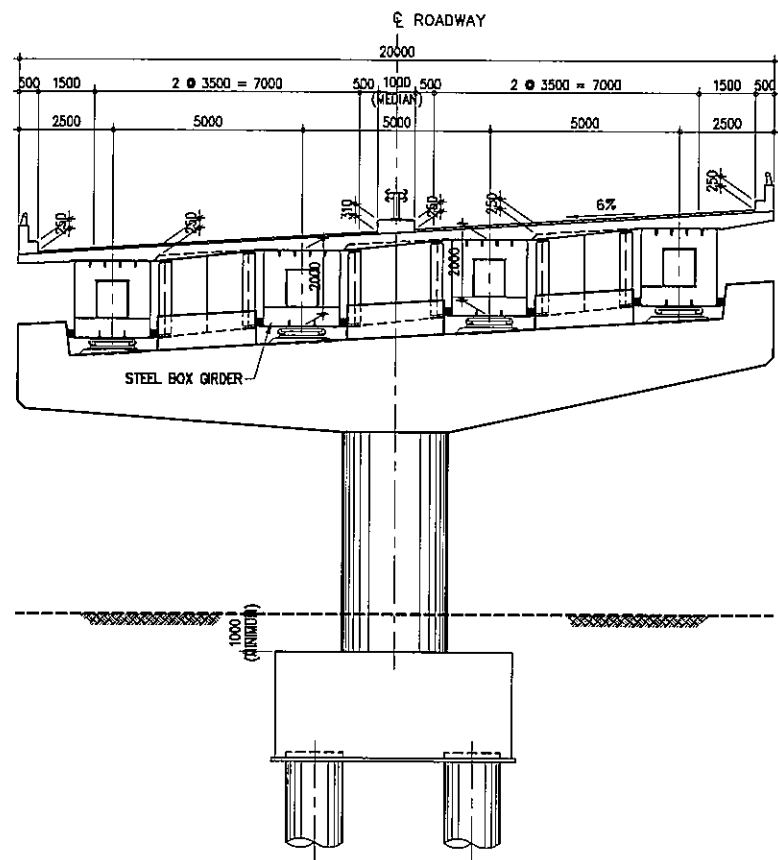


14 CROSS SECTION OF P59~P70  
SCALE 1:200

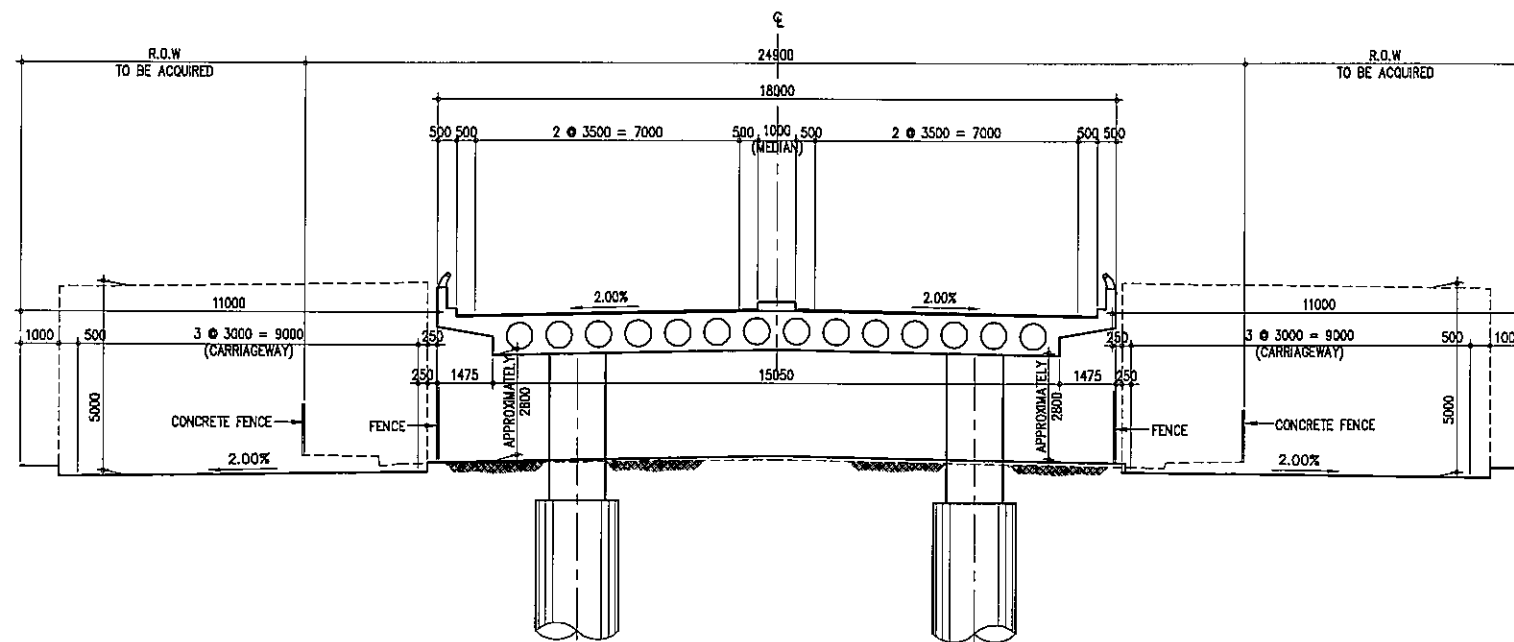


16 CROSS SECTION OF P79~P85, P90 & P91  
SCALE 1:200

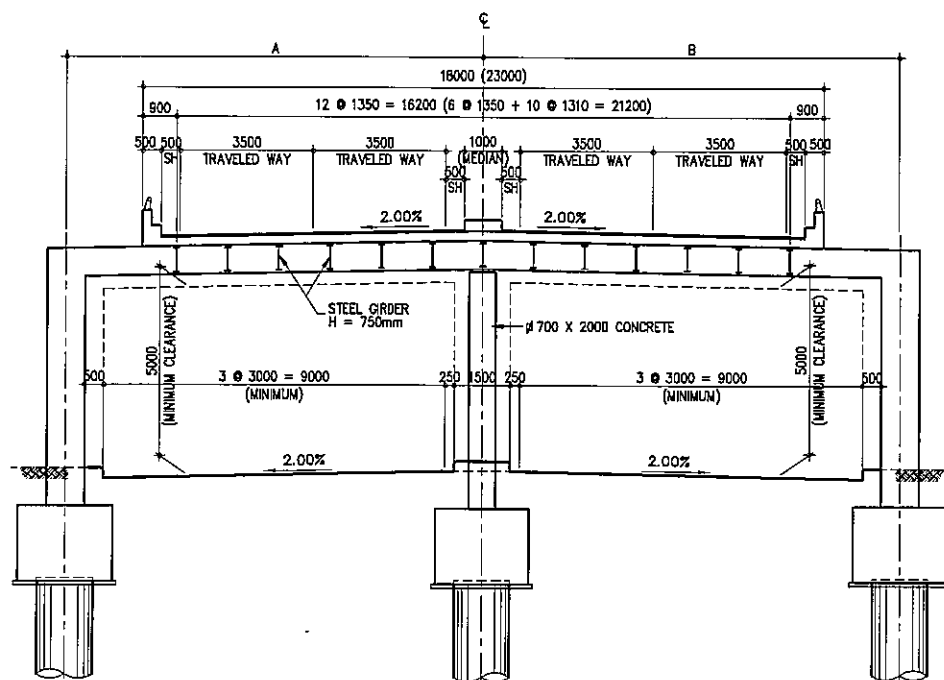
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (4/8)	J-04
			SHEET NO.
			4 OF 8



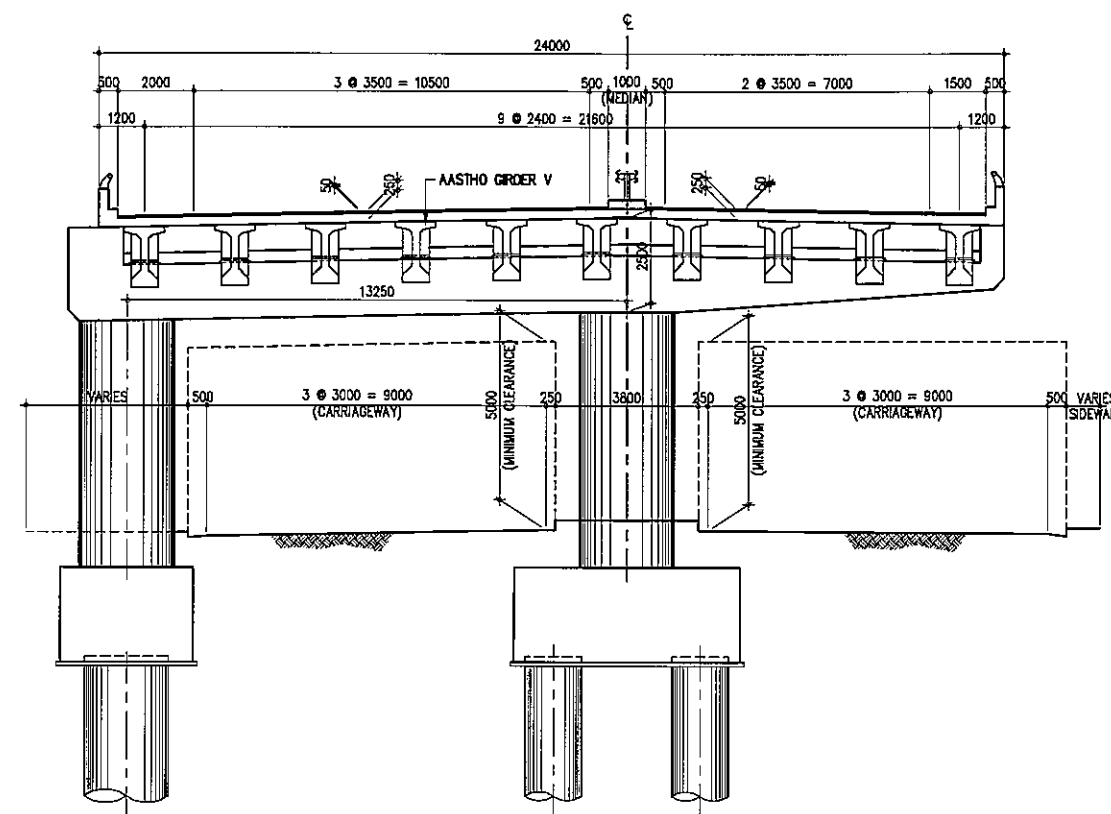
17 CROSS SECTION OF P86~P89  
SCALE 1:200



19 CROSS SECTION OF P96 TO P110  
SCALE 1:200

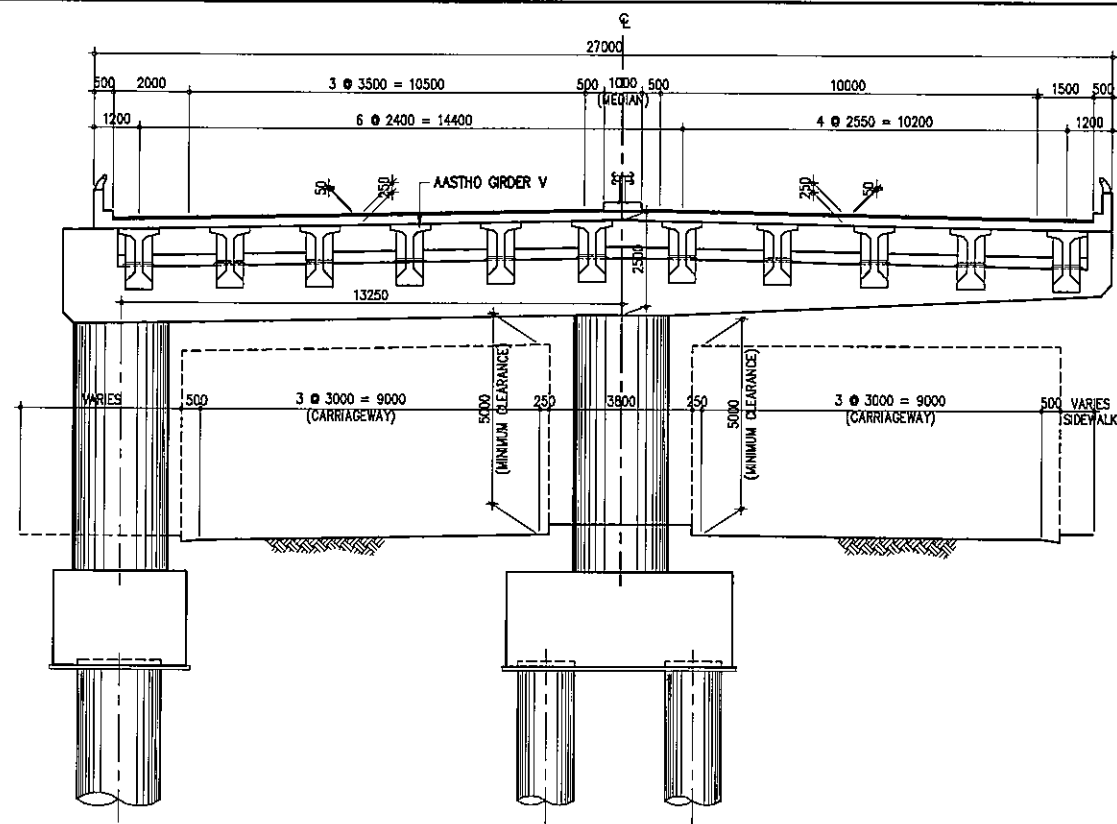


18 CROSS SECTION OF P92 ~ P95, P111 ~ P115 (P116 ~ P121)  
SCALE 1:200

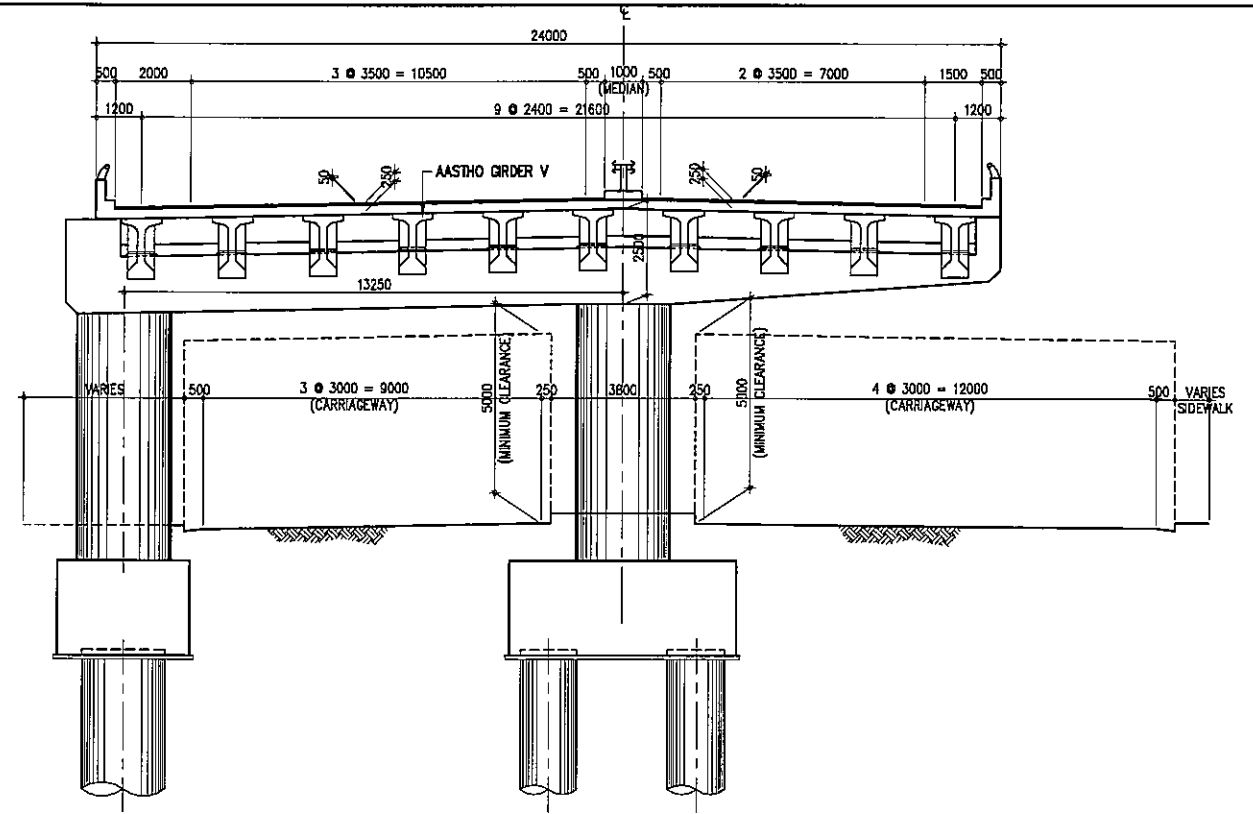


20 CROSS SECTION OF P123 TO P126  
SCALE 1:200

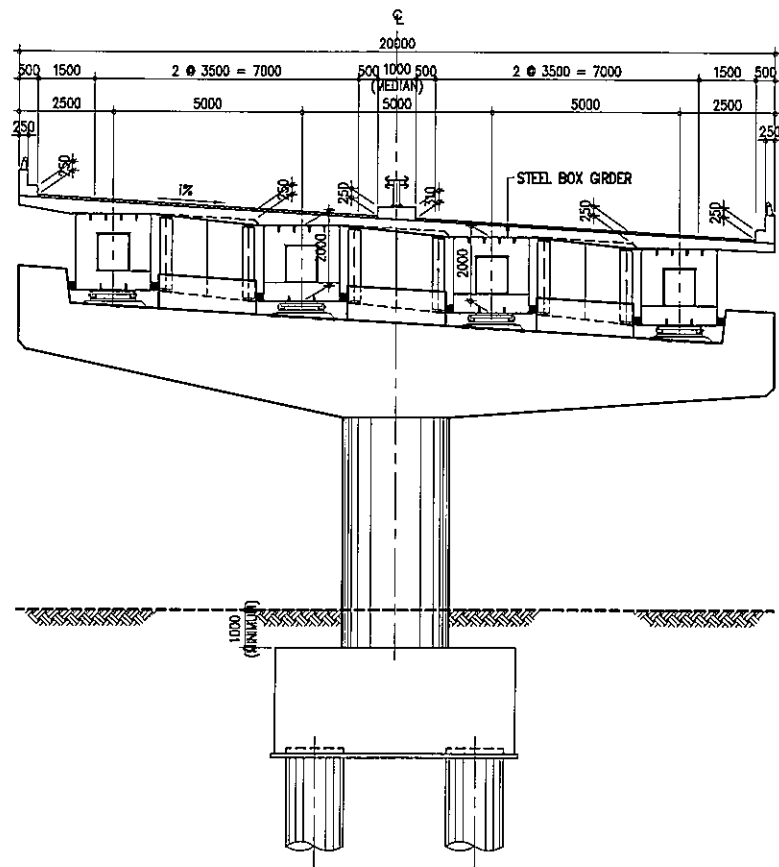
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (5/8)	J-05
			SHEET NO.
			5 OF 8



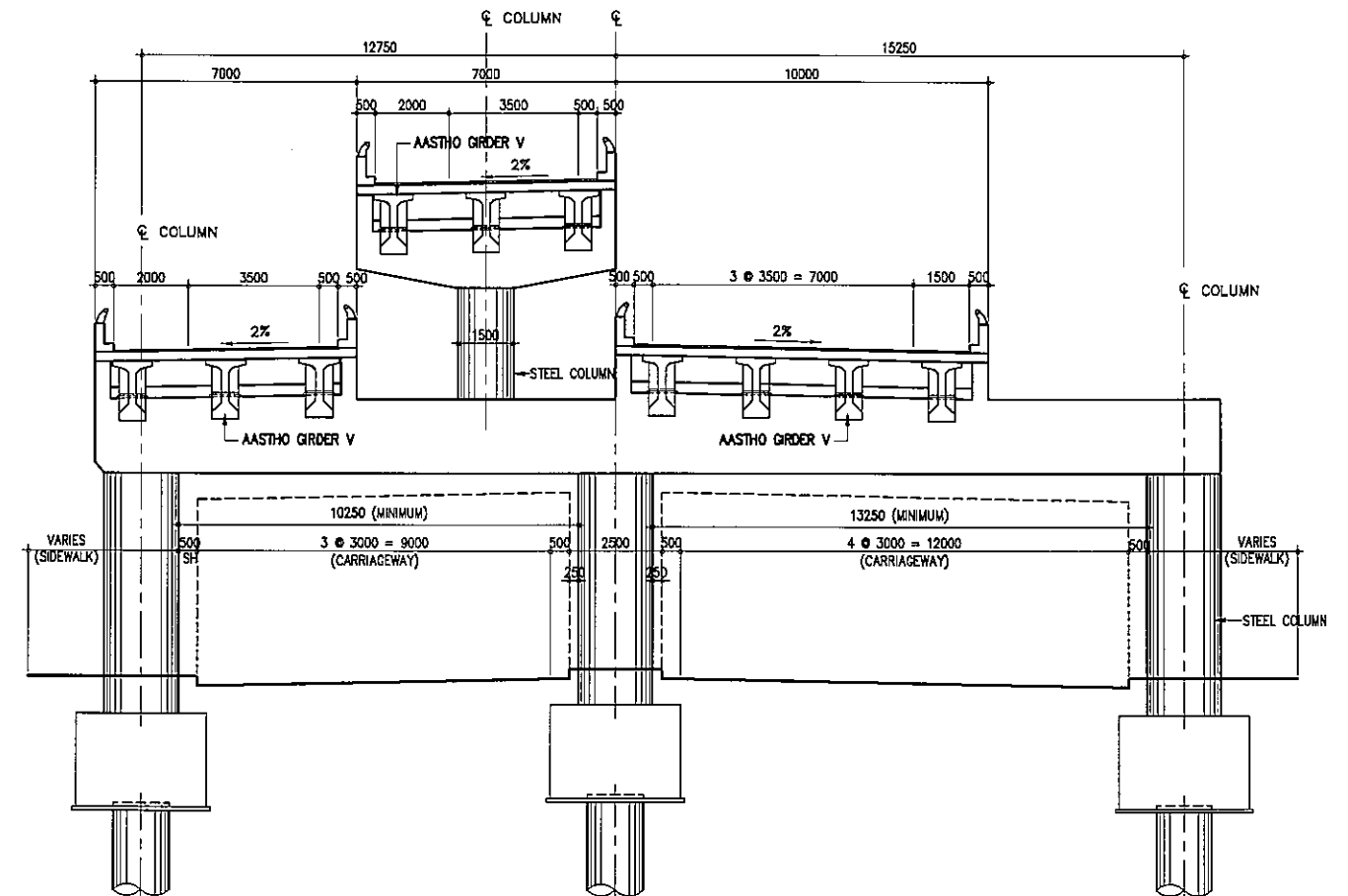
21 CROSS SECTION OF P127  
SCALE 1:200



23 CROSS SECTION OF P139  
SCALE 1:200

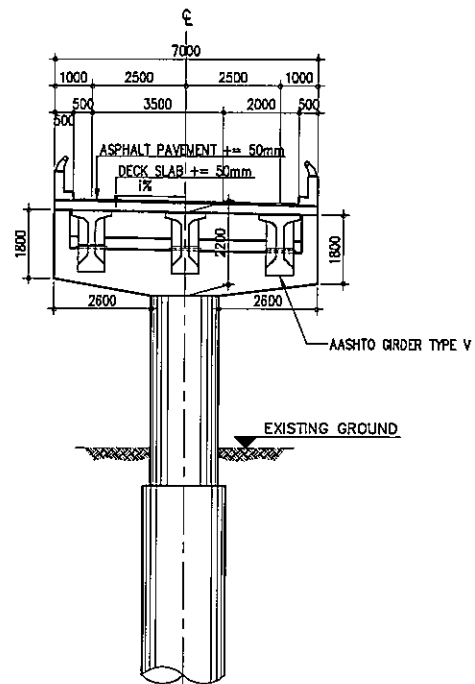


22 CROSS SECTION OF P128~P137  
SCALE 1:200

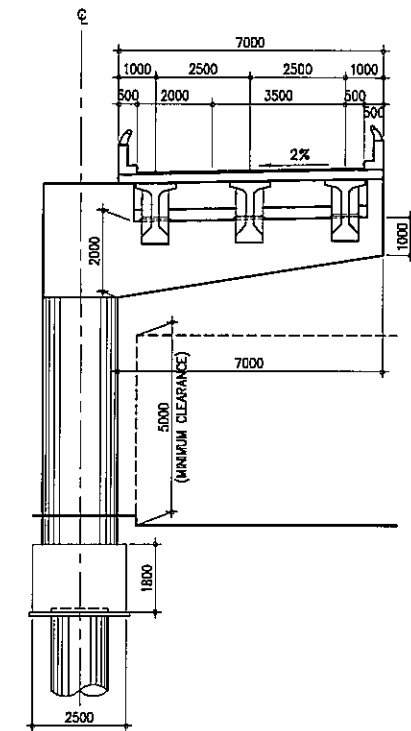


24 CROSS SECTION OF P140~P146  
SCALE 1:200

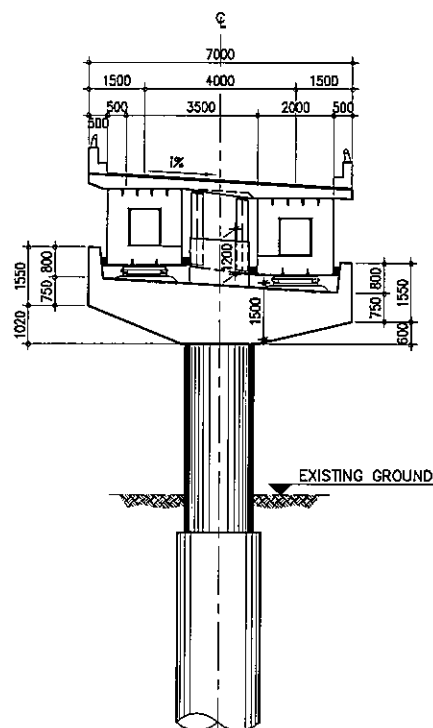
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (6/8)	J-06
			SHEET NO.
			6 OF 8



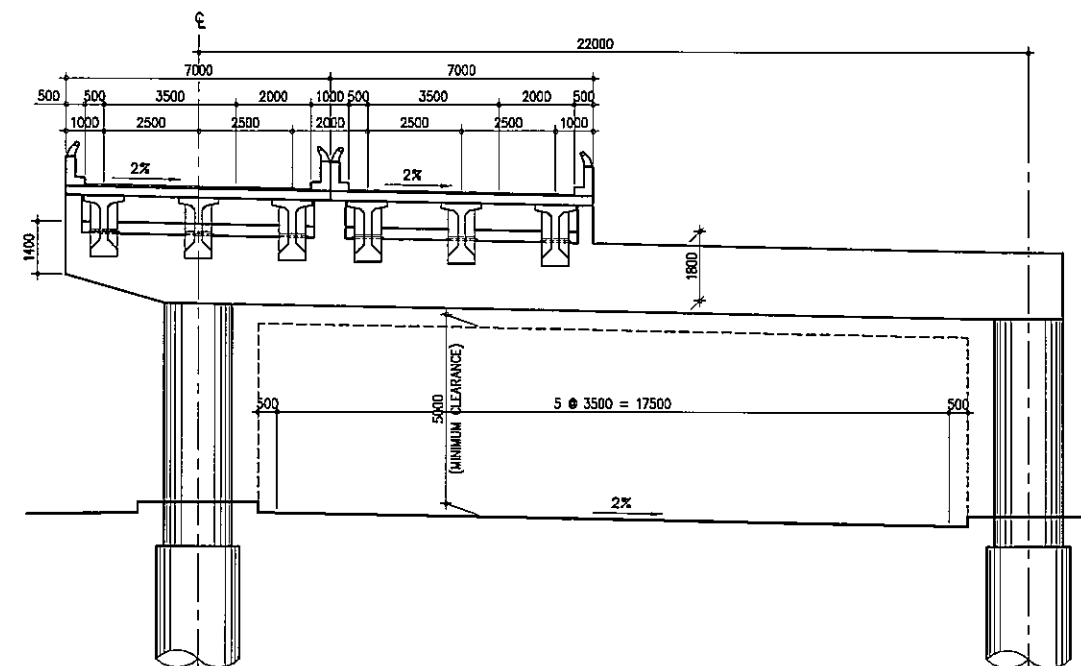
**R1** CROSS SECTION OF RAMP  
AASHTO GIRDER SECTION  
SCALE 1:200



**R3** CROSS SECTION OF DOMESTIC ON-RAMP  
SCALE 1:200

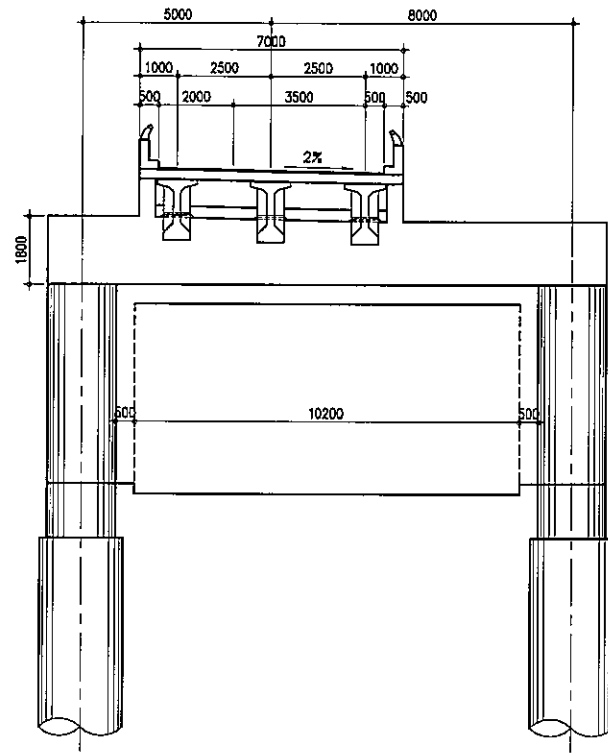


**R2** CROSS SECTION OF RAMP  
STEEL GIRDER SECTION  
SCALE 1:200

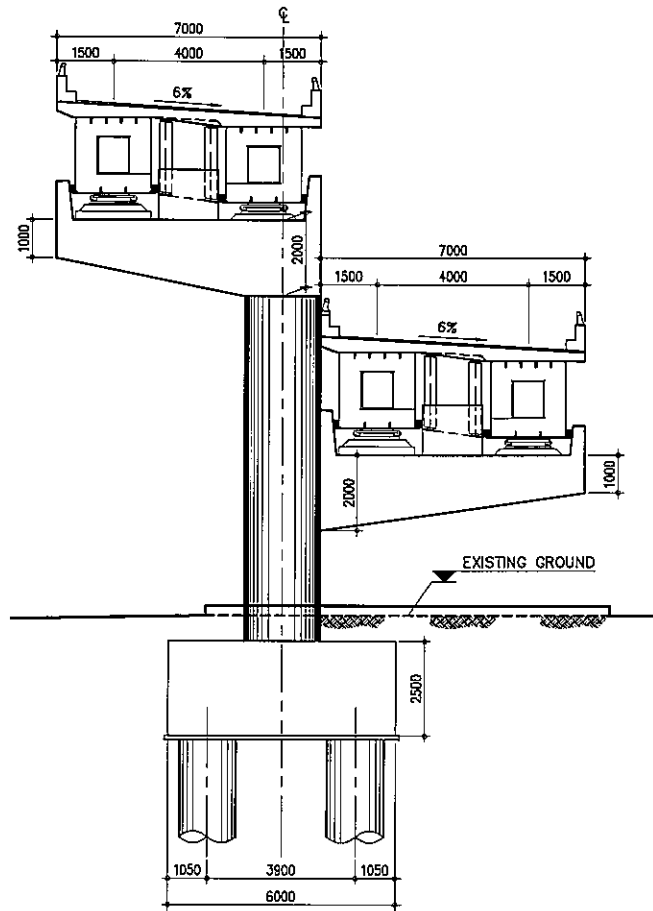


**R4** CROSS SECTION OF DOMESTIC OFF-RAMP (2)  
SCALE 1:200

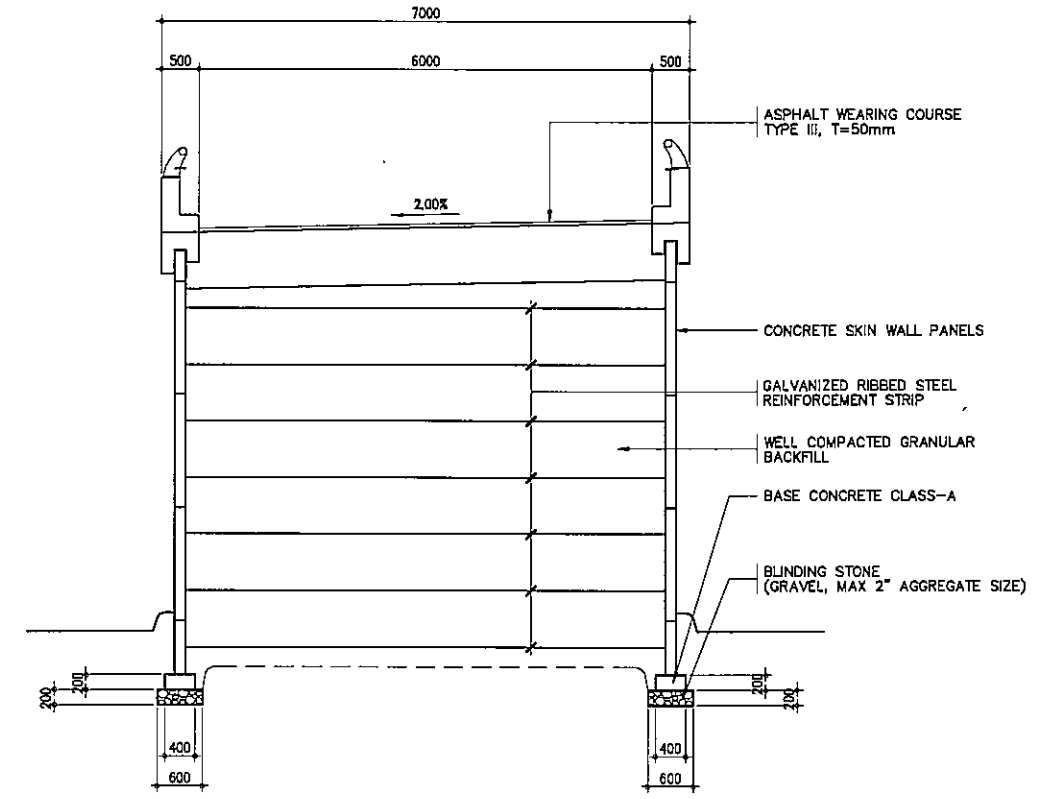
PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (7/8)	J-07
			SHEET NO.
			7 OF 8



**R5** CROSS SECTION OF DOMESTIC OFF-RAMP (1)  
SCALE 1:200



**R6** CROSS SECTION ROXAS IC RAMPS  
SCALE 1:200



**R7** CROSS SECTION OF MSE WALL  
SCALE 1:100

PROJECT TITLE	SCALE	SHEET CONTENT	DRAWING NO.
NAIA EXPRESSWAY PHASE II	AS SHOWN	CROSS SECTION (8/8)	J-08
			SHEET NO.
			8 OF 8