

VOLUME II: BID DRAWINGS

**THE REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

R10/C3/R9 EXPRESSWAY PROJECT

BID DOCUMENTS

VOLUME II

BID DRAWINGS

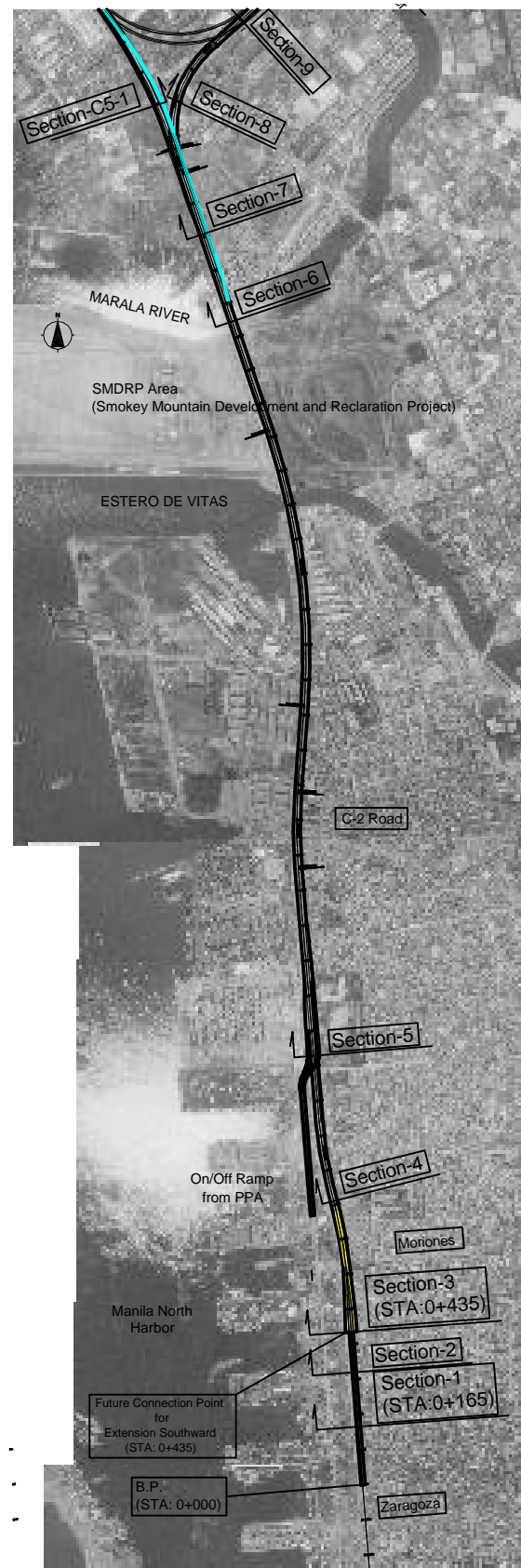
2003

INDEX OF DRAWINGS

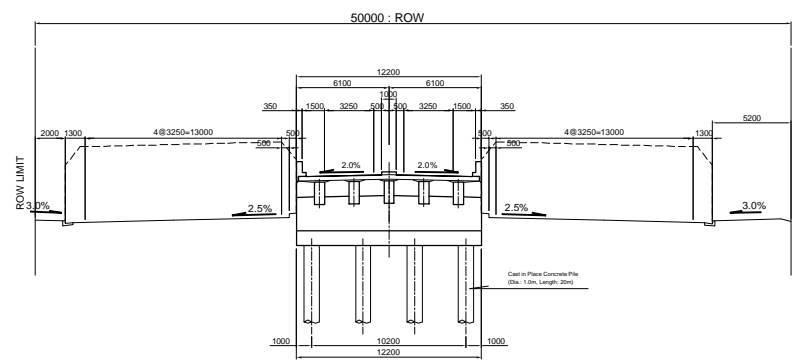
DRAWING TITLE	Drawing No.
Index of Drawings	BD-01
R10-C3-R9 Route	—
Location and Typical Cross Sections	BD-02 to 07
Plan and Profile	BD-08 to 14
Link Route to C5 Expressway	—
Location and Typical Cross Sections	BD-15 to 16
Plan and Profile	BD-17 to 20
Structures- Standard Viaduct	BD-21

VICINITY MAP (R10)

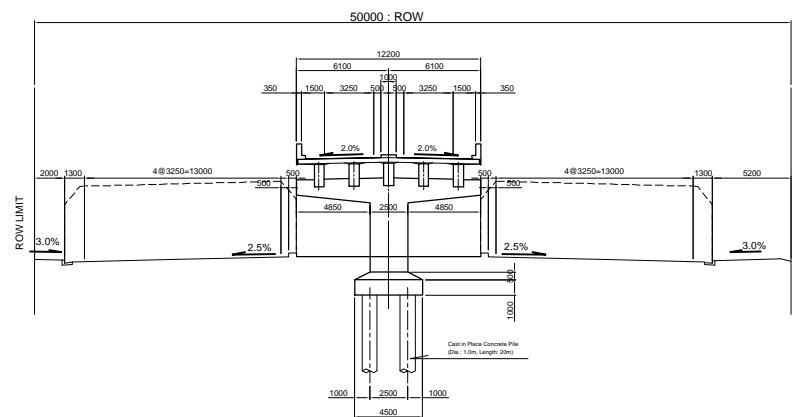
SCALE 1: 20,000



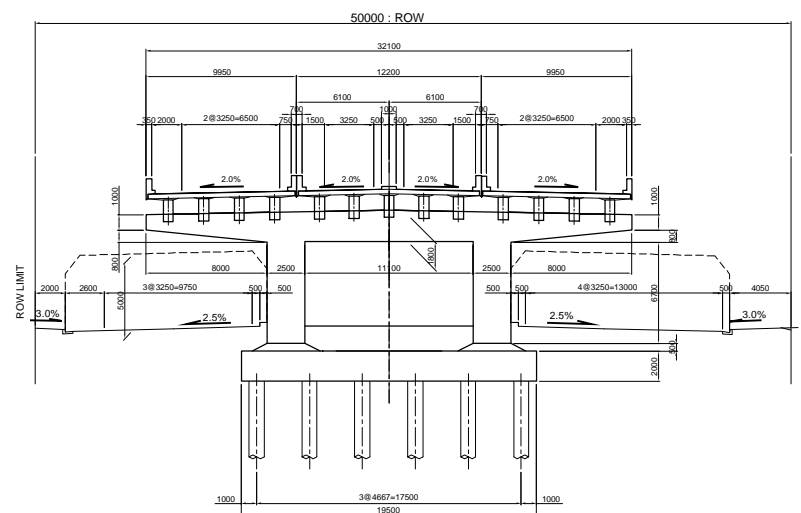
Section-1 (STA: 0+165) Scale 1:500



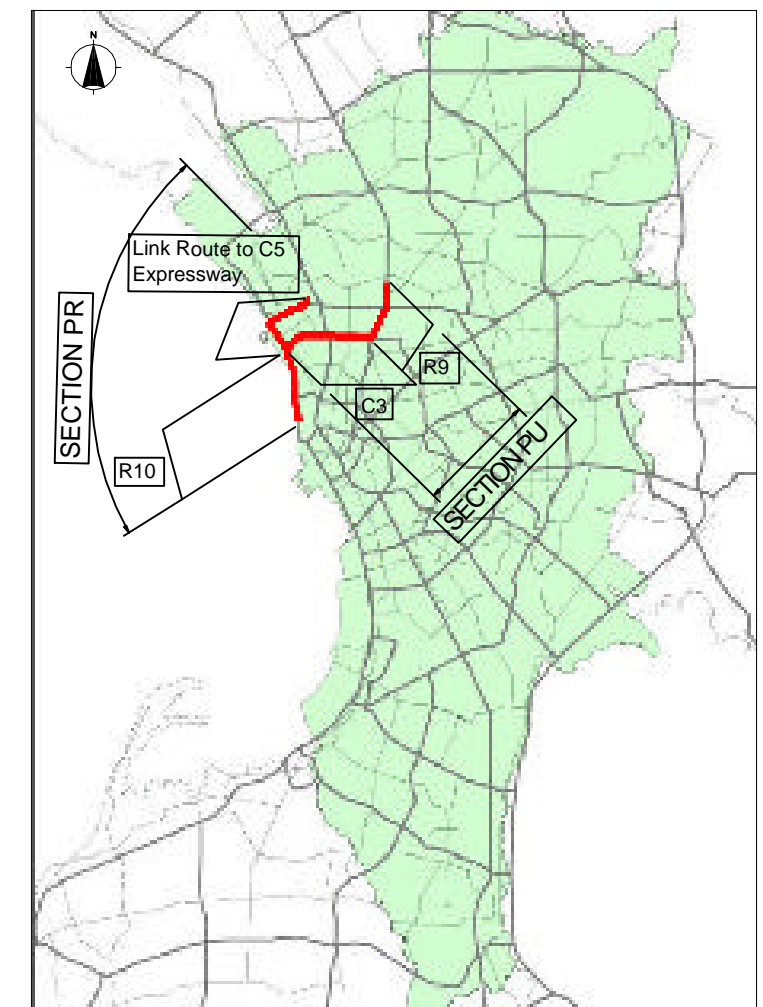
Section-2 Scale 1:500



Section-3 (STA: 0+435) Scale 1:500

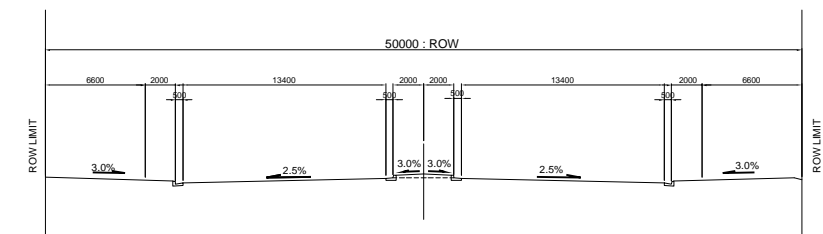


KEY MAP



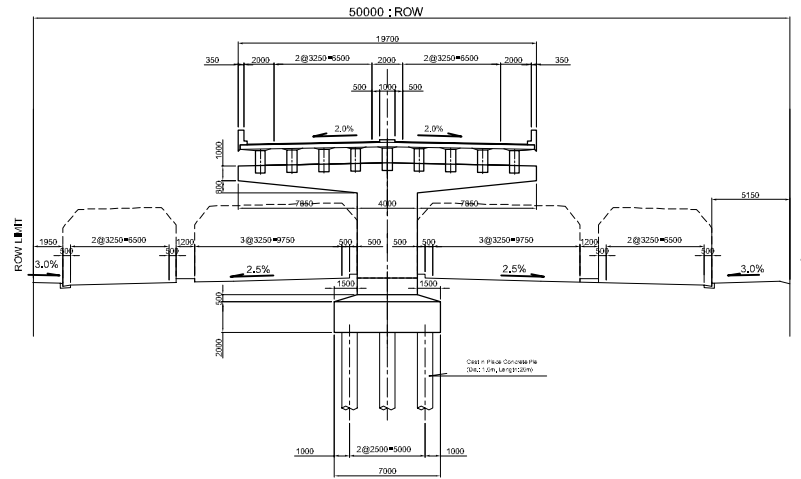
Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 PROJECT CONSTRUCTION PACKAGE I, from B.P. to C-2 Road)
(for Section-1,2,3)

Scale 1:500

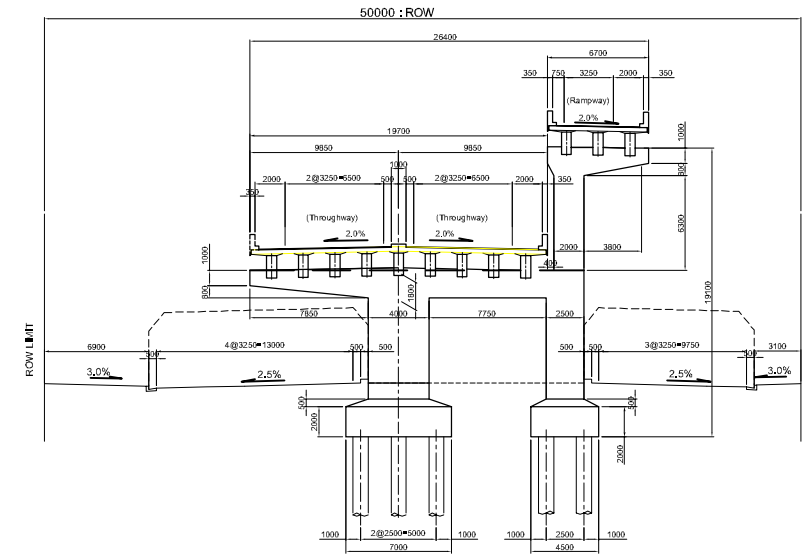


NOTE:
SECTION PU: C3/R9 ROUTE (STA 4+225 to STA 11+300)
undertaken by DPWH
SECTION PR: R10 & LINK ROUTE (STA 0+000 to STA 8+164)
undertaken by Concessionaire

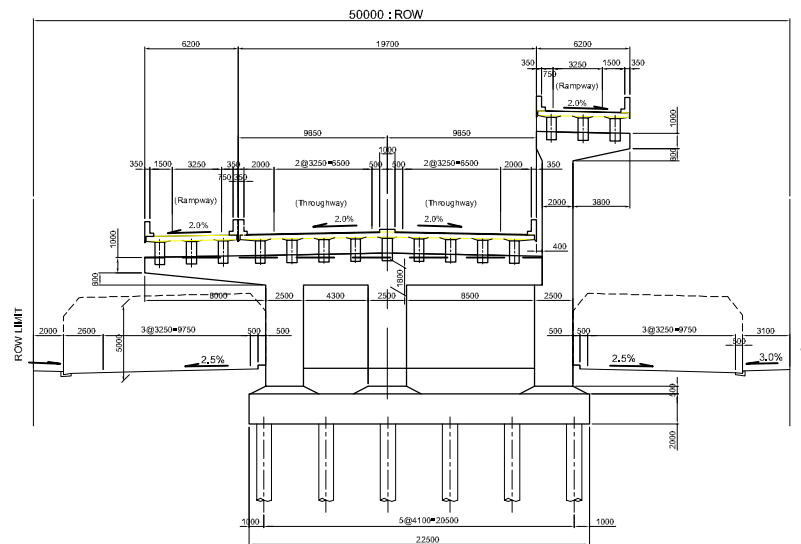
Section-4 Scale 1:500



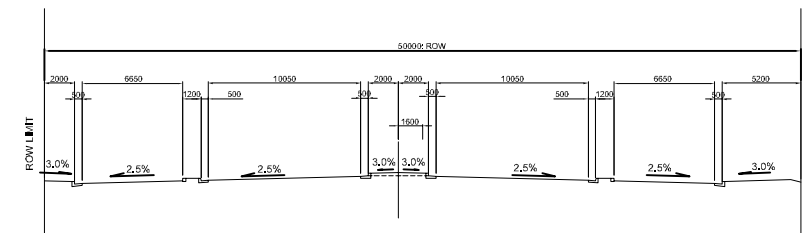
Section-7 Scale 1:500



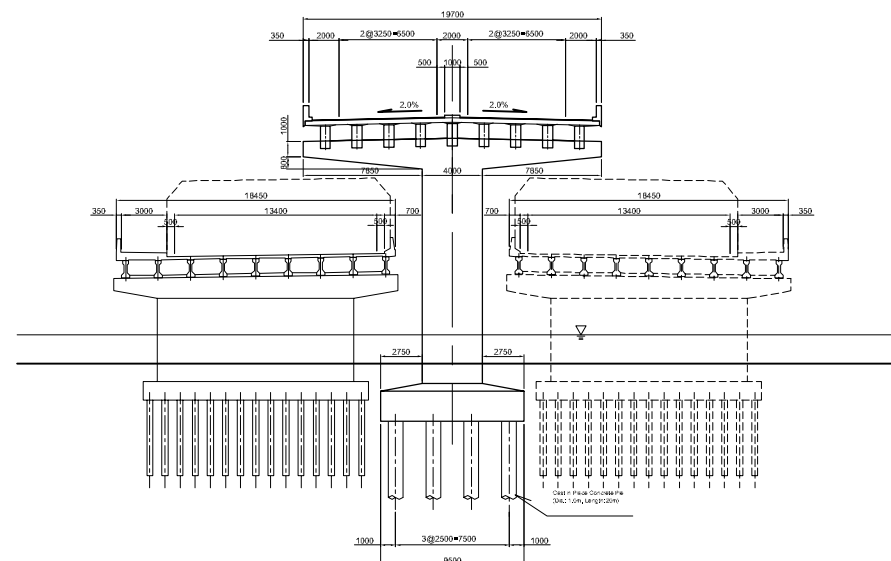
Section-5 Scale 1:500



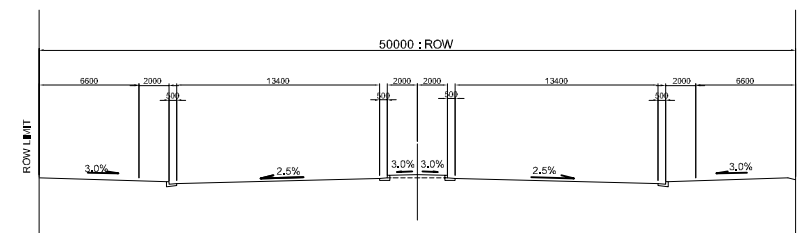
Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 PROJECT CONSTRUCTION PACKAGE I, from B.P. to C-2 Road)
(for Section-4,5) Scale 1:500



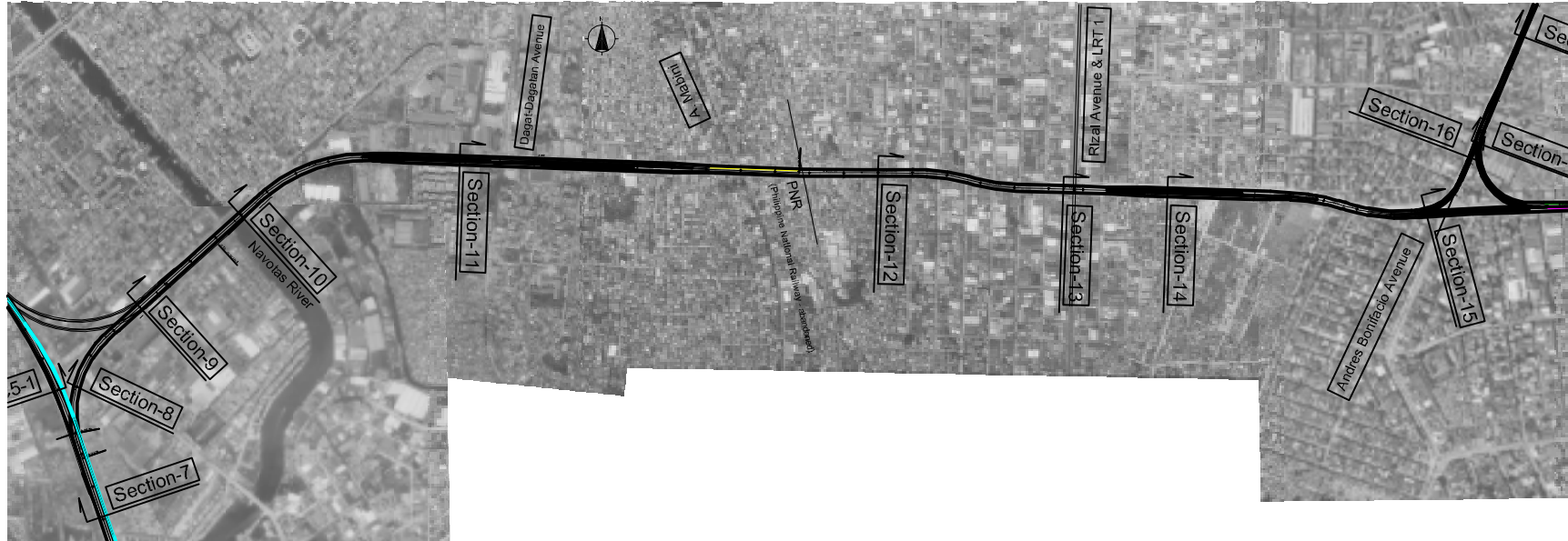
Section-6 Scale 1:500



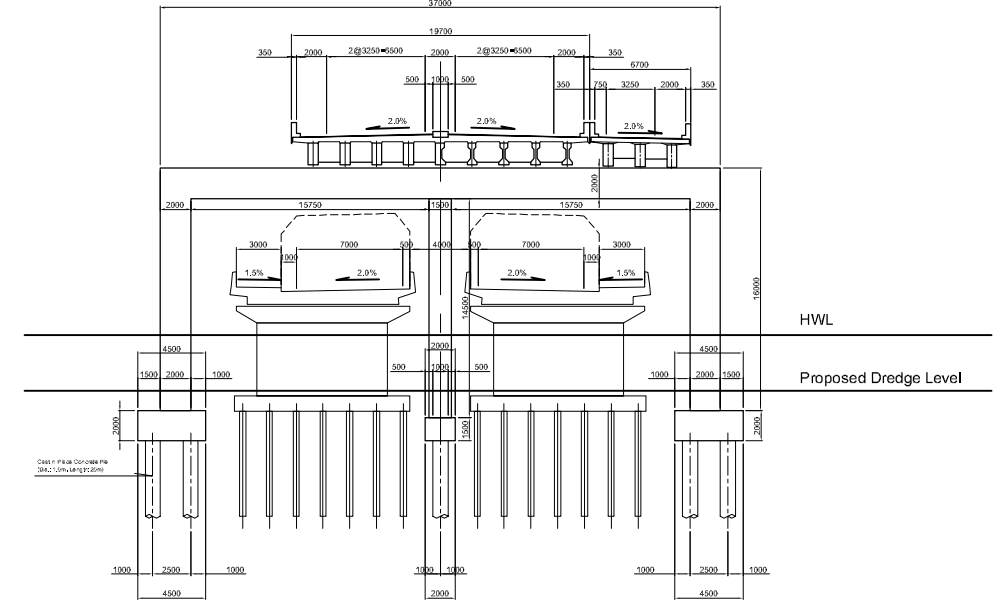
Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 PROJECT CONSTRUCTION PACKAGE I, from C-2 Road to Interchange)
(for Section-6,7) Scale 1:500



VICINITY MAP (C3) SCALE 1: 20,000

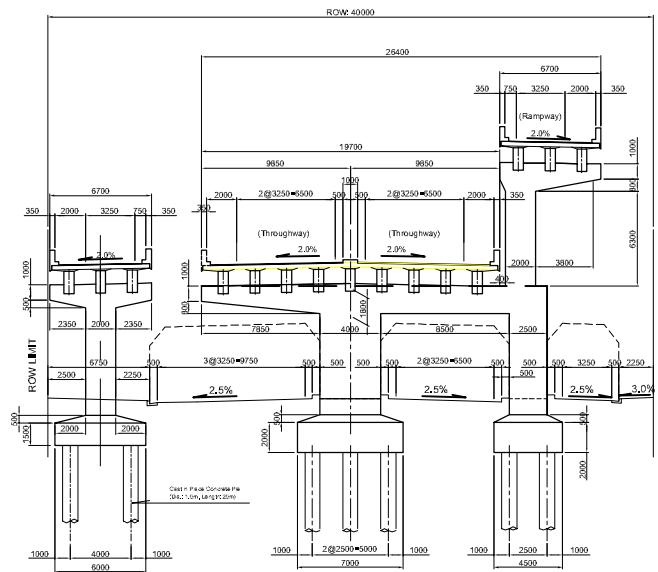
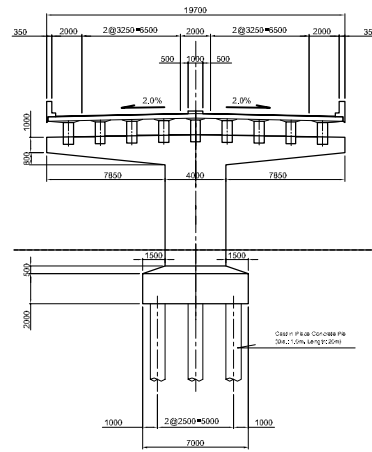


Section-10 (Above Navotas Bridge) Scale 1:500

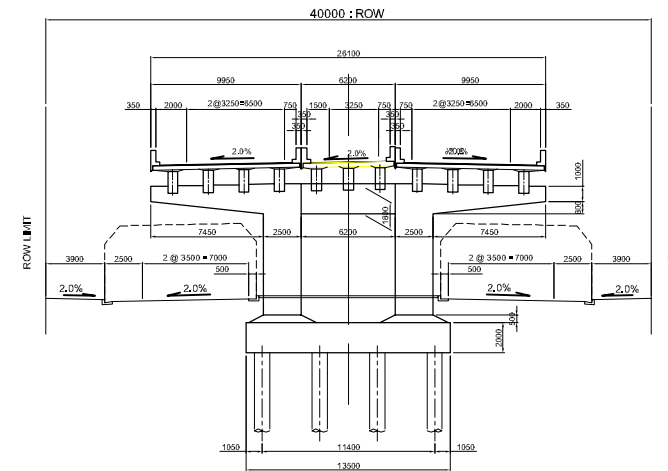


Section-9 (STA: 4+300) Scale 1:500

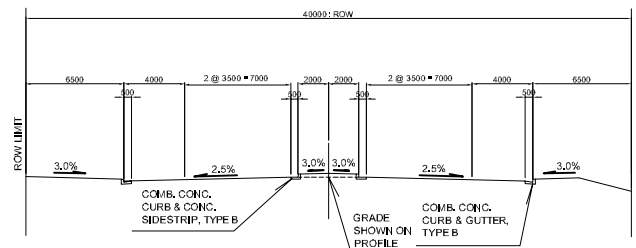
Section-8 (STA: 4+000) Scale 1:500



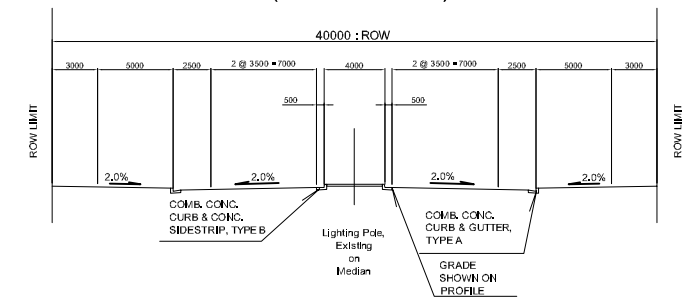
Section-11 Scale 1:500



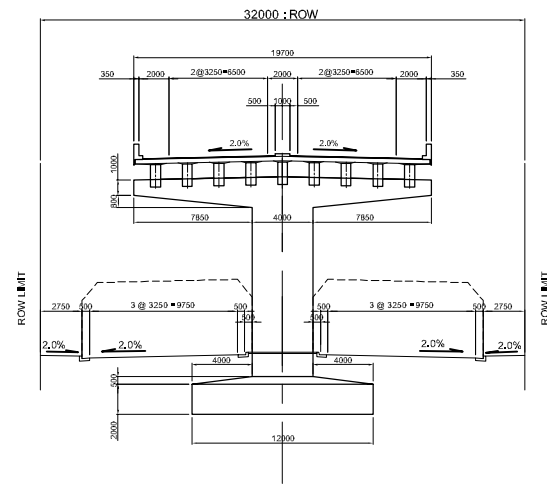
Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 PROJECT CONSTRUCTION PACKAGE II, from R-10 to Navotas River)
(for Section-9) Scale 1:500



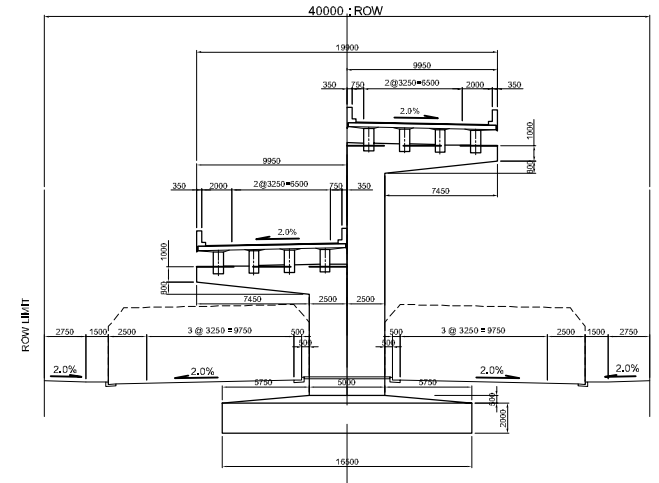
Cross Section of Existing At-Grade Road
(Source: R-10 AND ITS RELATED ROADS PROJECT PHASE I, from Navotas to Border of Dagat-Dagatan Ave.)
(for Section-11) Scale 1:500



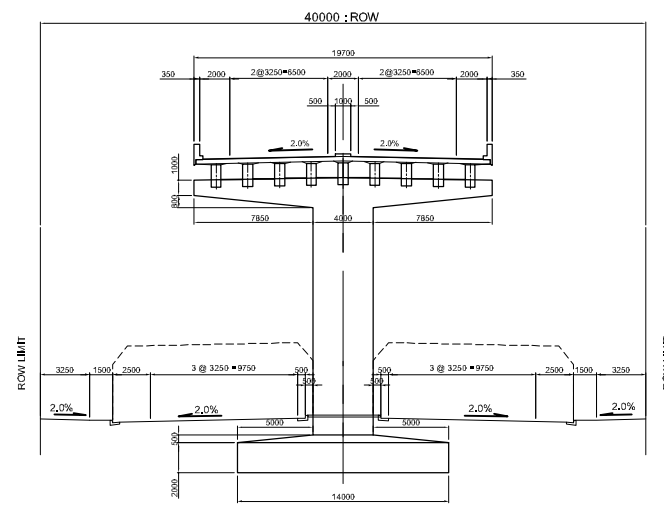
Section-12 Scale 1:500



Section-15 Scale 1:500

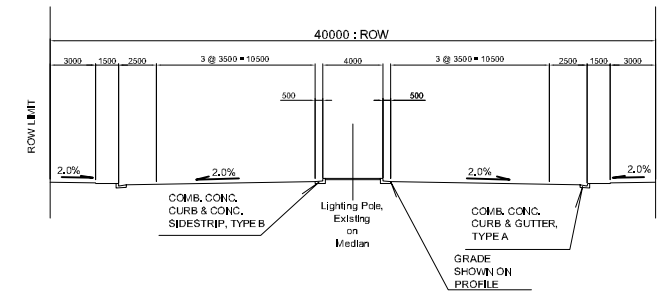


Section-13 Scale 1:500



Cross Section of Existing At-Grade Road
(Source: R-10 AND ITS RELATED ROADS PROJECT PHASE II, from Border of Dagat-Dagatan Area to Mabini)

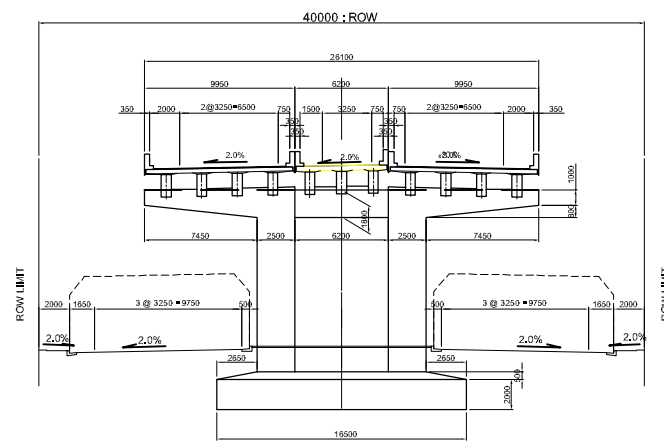
Scale 1:500



Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 AND ITS RELATED ROADS PROJECT PHASE II, from A.Mabini to Rizal Avenue Ext.)
(for Section-12)

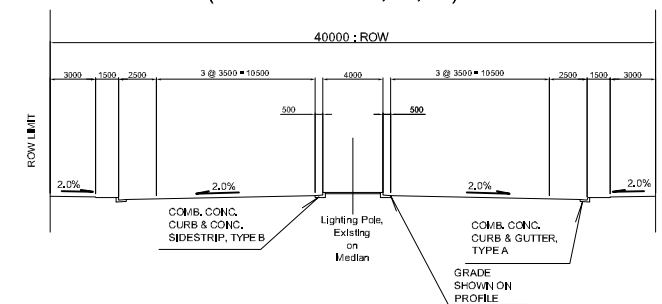
Scale 1:500

Section-14 Scale 1:500



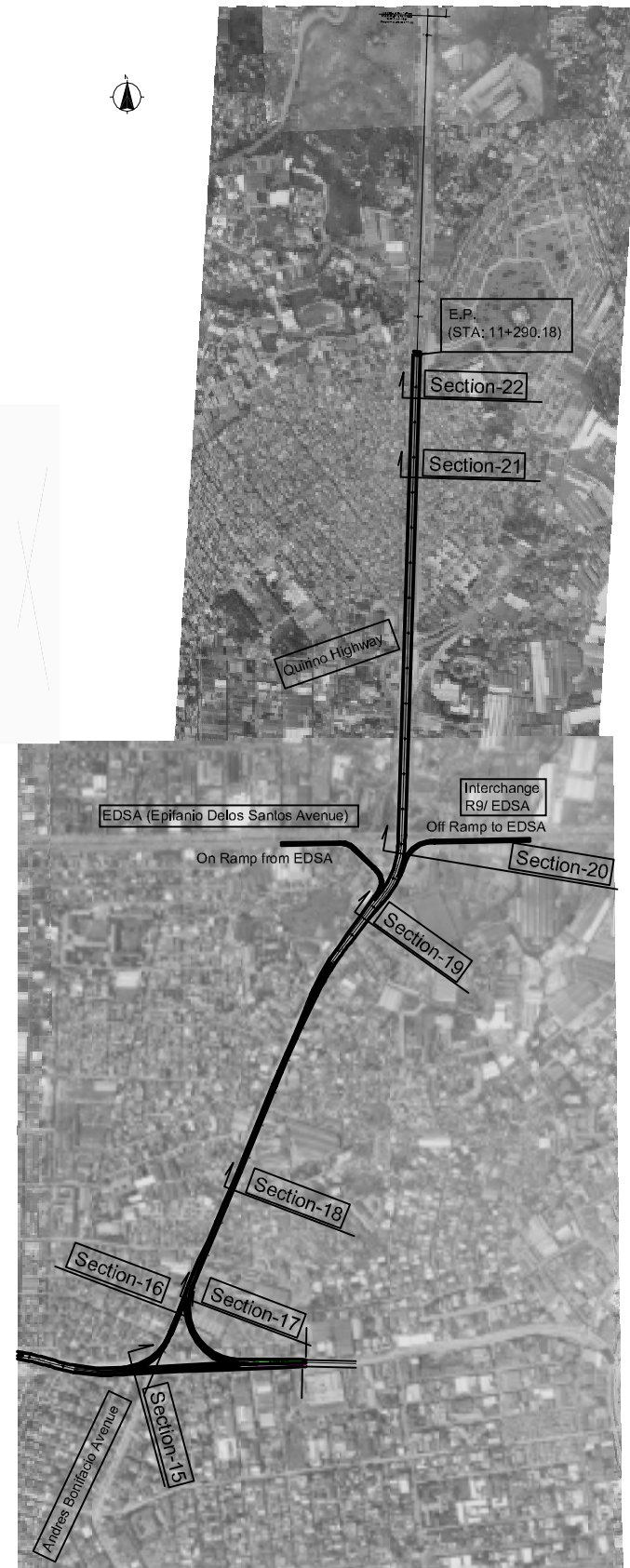
Cross Section of Existing At-Grade Road
(Source: RADIAL ROAD R-10 AND ITS RELATED ROADS PROJECT PHASE II, from A.Mabini to Rizal Avenue Ext.)
(for Section-13,14,15)

Scale 1:500

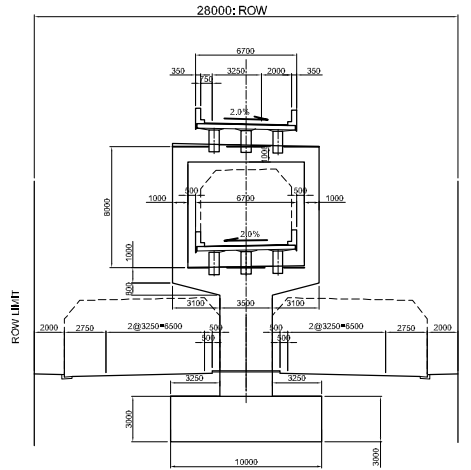


VICINITY MAP (R9)

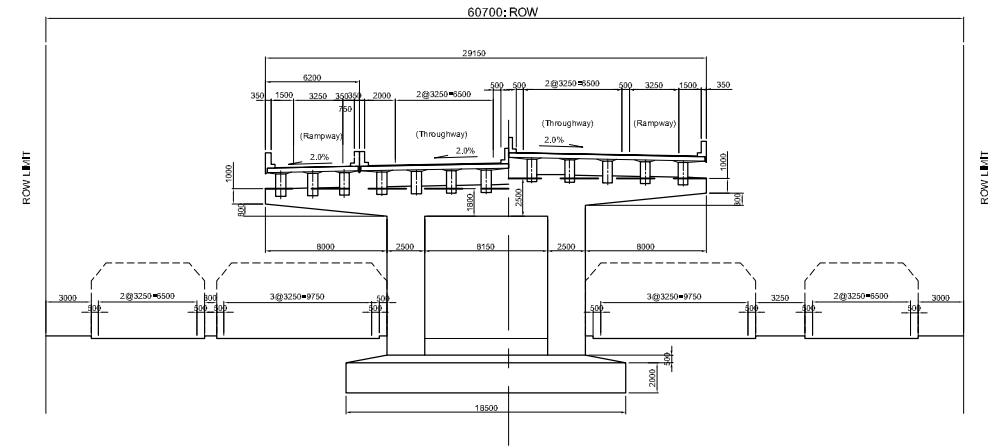
SCALE 1: 20,000



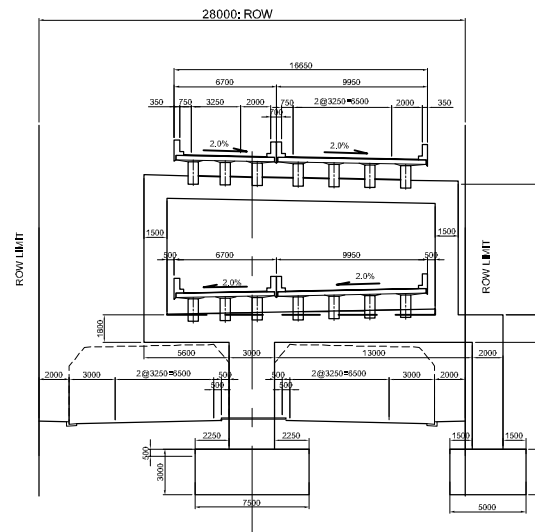
Section-16 Scale 1:500



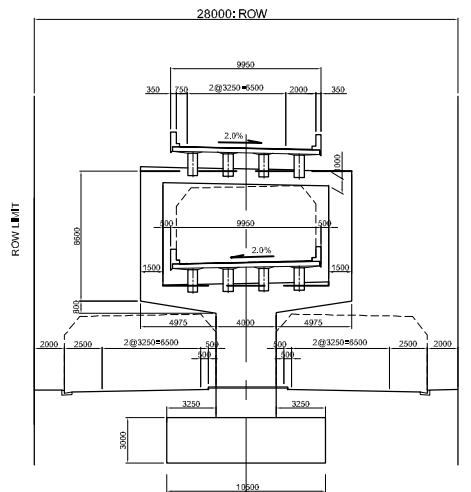
Section-19 Scale 1:500



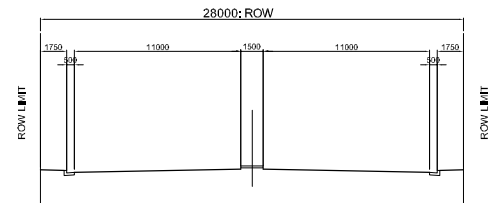
Section-17 Scale 1:500



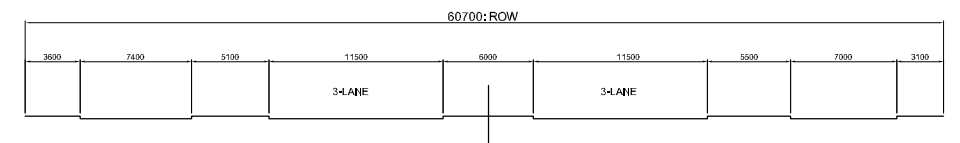
Section-18 Scale 1:500



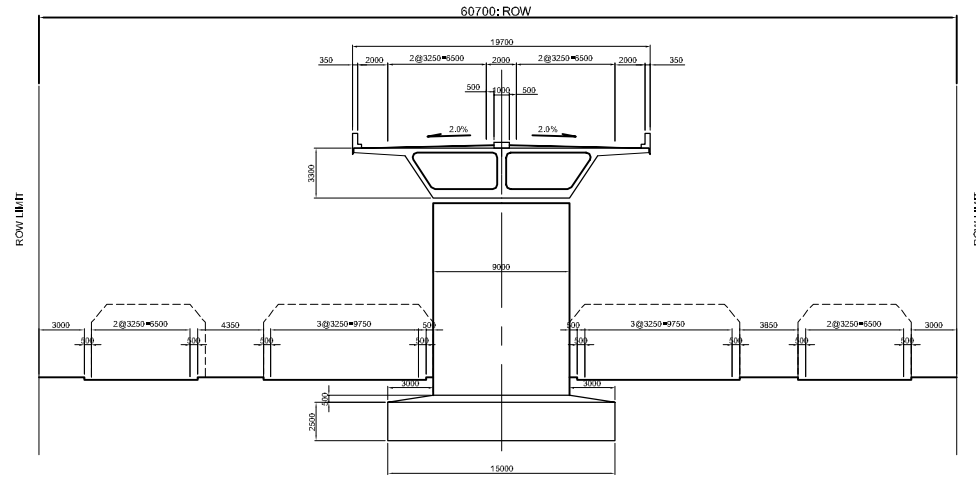
Cross Section of Existing At-Grade Road (Assumed)
(Source: METRO MANILA ROAD PAVEMENT REHABILITATION PROJECT & MMUES)
(for Section-16,17,18) Scale 1:500



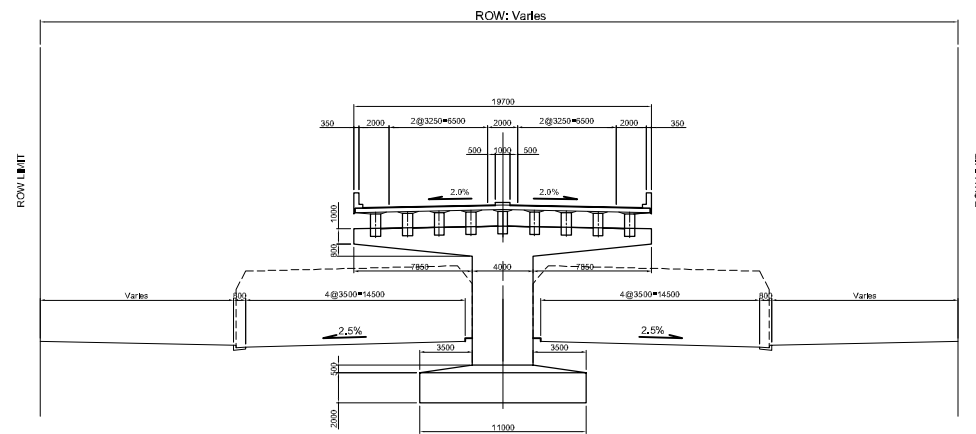
Cross Section of Existing At-Grade Road (Assumed)
(Source: MMUES)
(for Section-19) Scale 1:500



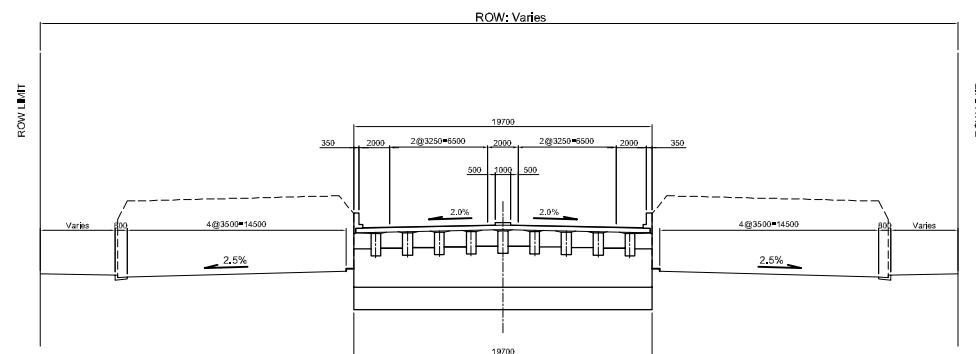
Section-20 (STA: 9+883, 9+943) Scale 1:500



Section-21 Scale 1:500

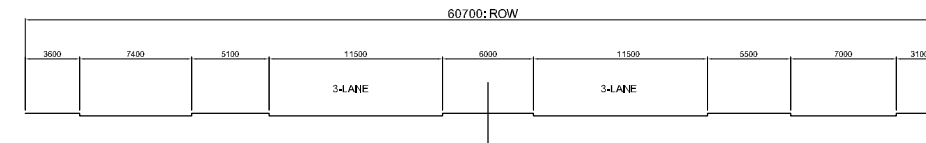


Section-22 (STA: 11+168) Scale 1:500



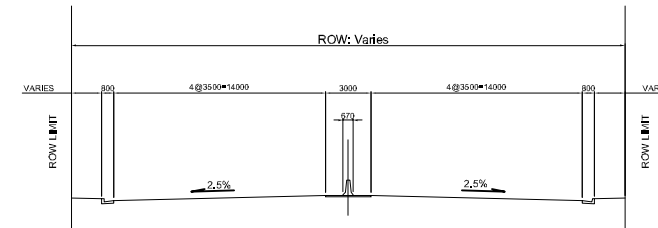
Cross Section of Existing At-Grade Road (Assumed)
(Source: MMUES)
(for Section-20)

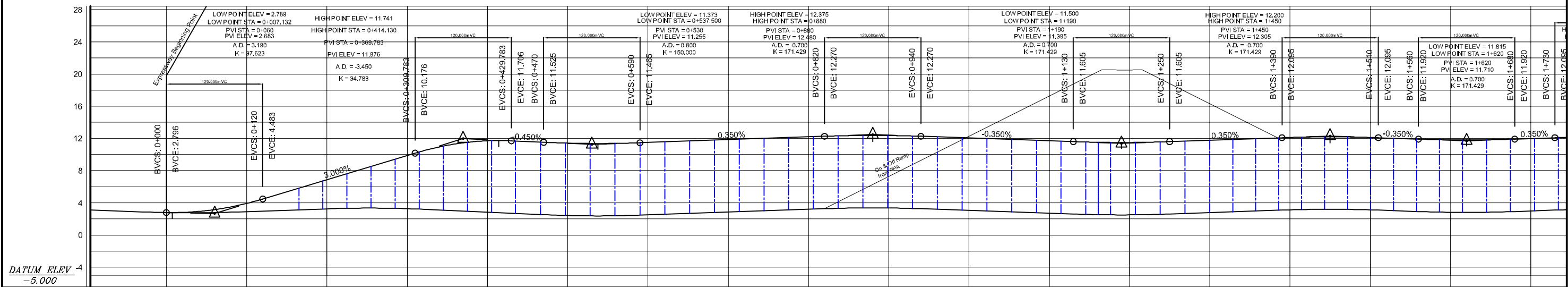
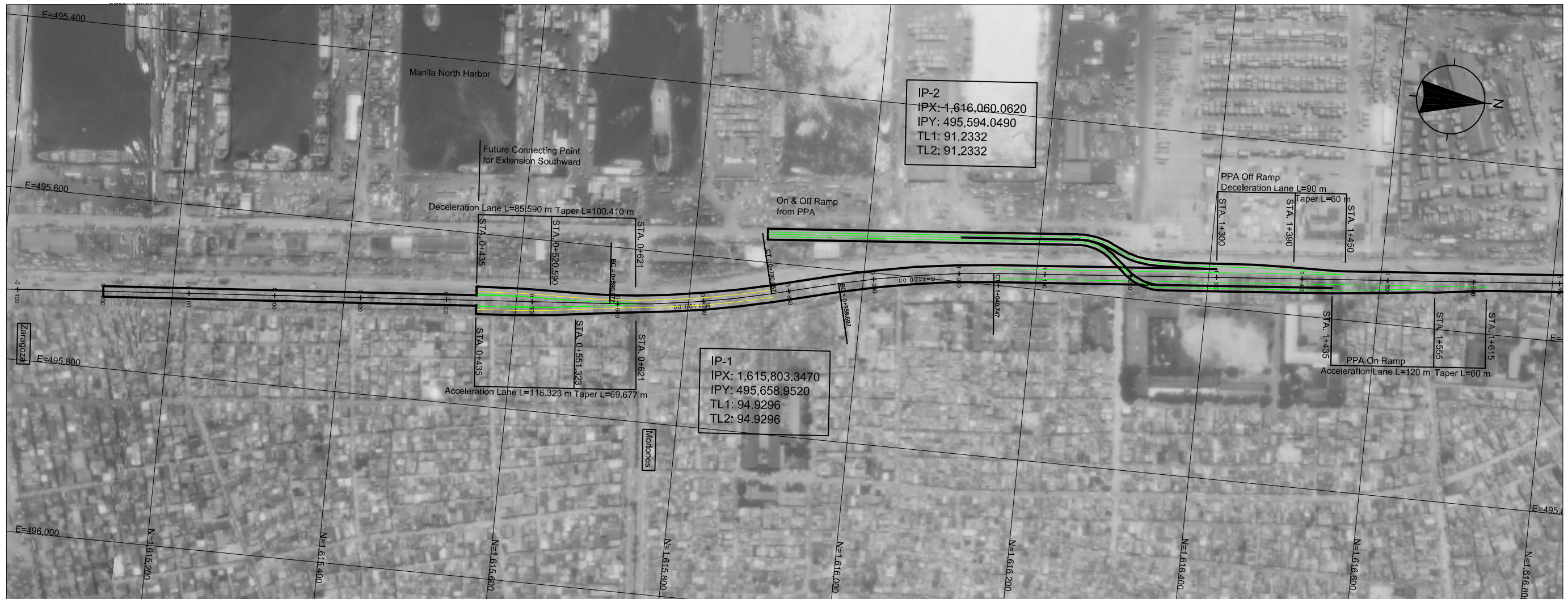
Scale 1:500



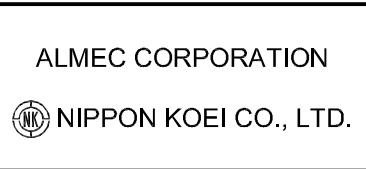
Cross Section of Existing At-Grade Road
(Source: MANILA NORTH TOLLWAYS PROJECT, South side before Balintawak Toll Area)
(for Section-21,22)

Scale 1:500





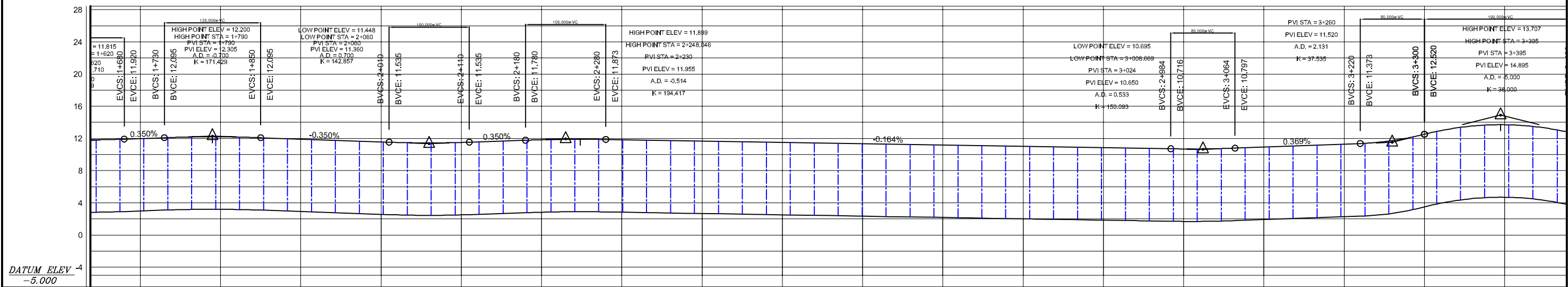
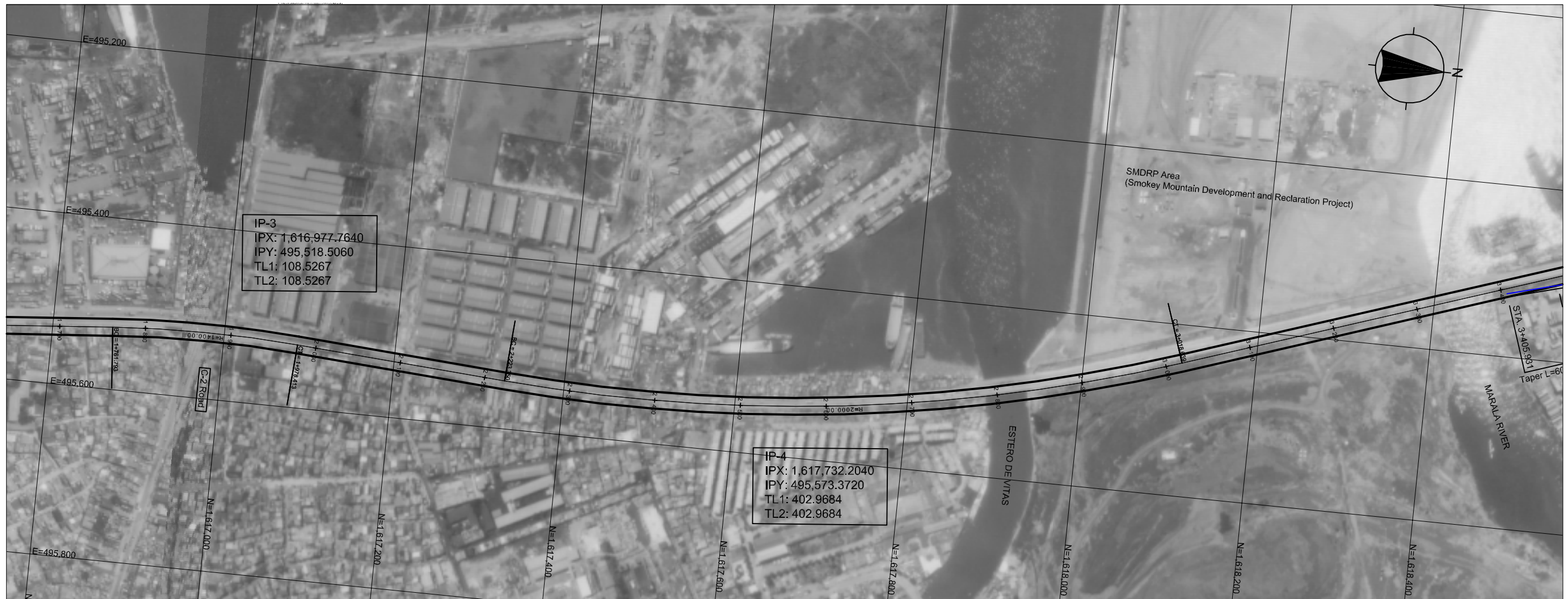
STATION	0+000	0+200	0+400	0+600	0+800	1+000	1+200	1+400	1+600									
FINISHED GRADE EL.	2.796	3.495	6.983	9.883	11.712	11.483	11.500	11.850	12.200	12.375	12.060	11.710	11.503	11.780	12.197	12.197	11.827	11.990
EXISTING GROUND EL.	2.796	2.910	3.280	3.277	2.840	2.420	2.500	2.850	3.200	3.363	3.060	2.710	2.503	2.780	3.127	3.127	2.827	2.990
HORIZONTAL CURVATURE	BC: 0+590,677 R = 1,100 CT: 0+780,067 R = 1,100 BC: 0+858,697 R = 1,100 CT: 1+040,747 R = 1,100																	



R10/C3/R9 EXPRESSWAY PROJECT

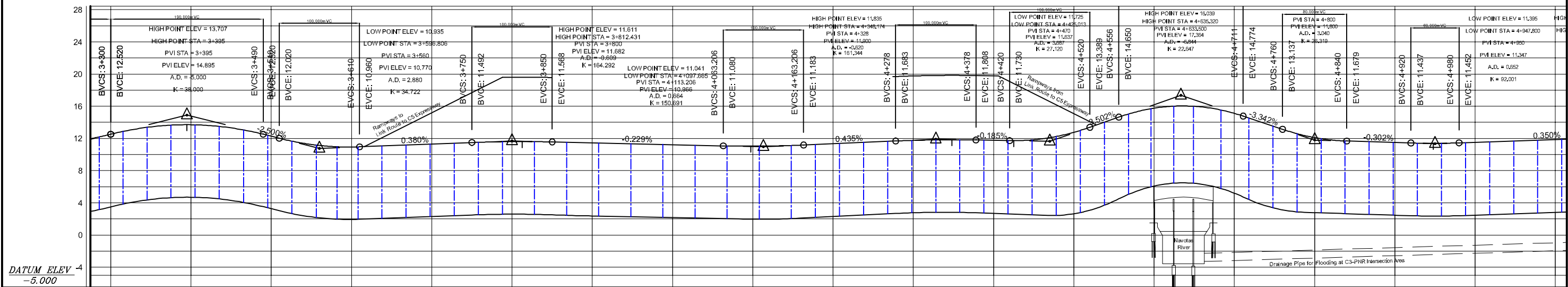
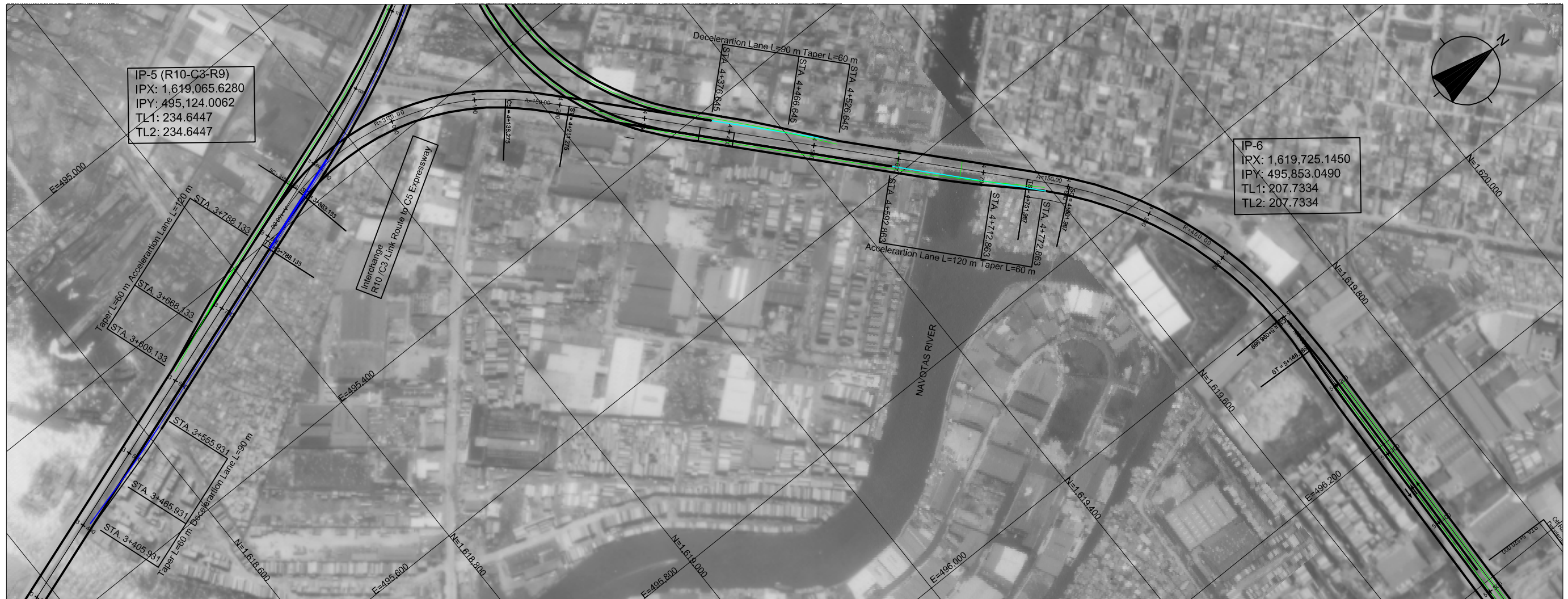
PLAN AND PROFILE
R10-C3-R9 ROUTE
(STA 0+000 ~ STA 1+700)

SCALE		DWG. No.
HORIZONTAL	1:5,000	BD-08
VERTICAL	1:500	



STATION	1+800	2+000	2+200	2+400	2+600	2+800	3+000	3+200	3+400
FINISHED GRADE EL.	11.990	12.270	11.920	11.570	11.462	11.897	11.840	11.676	11.511
EXISTING GROUND EL.	2.990	3.197	2.920	2.570	2.503	2.840	2.840	2.676	2.511
HORIZONTAL CURVATURE	R = 1,400 BC: 1+761,763 CT: 1+978,413		R = 2,000 BC: 2+223,350		R = 2,000		R = 2,000 CT: 3+018,639		

<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Republic of Philippines</p>	<p>ALMEC CORPORATION NIPPON KOEI CO., LTD.</p>	<p>R10/C3/R9 EXPRESSWAY PROJECT</p>	<p>PLAN AND PROFILE R10-C3-R9 ROUTE (STA 1+700 ~ STA 3+400)</p>	SCALE	DWG. No.
					HORIZONTAL 1:5,000	BD-09
					VERTICAL 1:500	



STATION	3+400	3+600	3+800	4+000	4+200	4+400	4+600	4+800	5+000	5+200									
FINISHED GRADE EL.	13.704	12.270	10.936	11.302	11.606	11.453	11.225	11.041	11.343	11.764	11.767	12.762	15.763	15.114	12.104	11.498	11.522	11.872	12.222
EXISTING GROUND EL.	4.697	3.270	1.936	2.302	2.592	2.371	2.174	1.972	2.294	2.773	2.680	2.646	6.085	5.201	2.786	2.486	2.469	2.819	3.168
HORIZONTAL CURVATURE	A = 150 TS: 3+788.133 SC: 3+863.133 CS: 4+135.275 ST: 4+211.275 A = 150 TS: 4+751.987 SC: 4+801.987 CS: 5+098.989 ST: 5+148.989																		

	R10/C3/R9 EXPRESSWAY PROJECT		PLAN AND PROFILE R10-C3-R9 ROUTE (STA 3+400 ~ STA 5+100)		SCALE		DWG. No.	
					HORIZONTAL 1:5,000 VERTICAL 1:500	BD-10		