

Appendix 1 Projects and Programs by Transportation Sector

Road Network Development							
Code	Project / Program	Timing			Length (Km)	Project Cost (Billion. Rp)	Note
		Within 4 Years	Next 7 Years	Up to 2020			
R01	Jakarta Outer Ring Road	Yes			36.5	7,035	
R02a	Jatiasih – 2 nd JORR			Yes	3.7	223	
R02b	2 nd JORR – Cikampek Toll Road				7.3	273	After 2020
R03	Tg. Priok Access from JORR	Yes			12.1	3,784	
R04	Tanjung Priok – Cikarang Toll Road				28.0	2,511	After 2020, 8 Km included in R05
R05	2 nd JORR (Outer-outer Ring Road)	Begin	Continue	Yes	108.2	7,057	Cost in Oct.2003 due to Pre. F/S
R06	Extension of Serpong Toll Road to Intraurban Toll Road				7.5	2,015	After 2020
R07	Extension of Serpong Toll Road to Tigaraksa				32.5	848	After 2020
R08a	Depok – Antasari Toll Road (JORR – 2 nd JORR)			Yes	2.8	1,433	
R08b	Depok – Antasari Toll Road (2 nd JORR – Citayam)				3.1	956	After 2020
R09	Kalimalang Toll Road		Yes		13.9	2,066	
R10	Road widening for the Trunk Bus Perintis – Bekasi Raya	Begin	Yes		2.3	75	
R11	Road widening for the Trunk Bus Bekasi Raya to Cikarang			Yes	21.2	500	
R12	Road widening for the Trunk Bus Bogor Raya (1)	Yes			6.5	400.7	Cost is in Oct. 2003 due to Pre F/S
R13	Road widening for the Trunk Bus Bogor Raya (2)		Yes		17.6	736	
R14	Road widening for the Trunk Bus Ciledug Raya	Begin	Yes		11.3	366	
R15	Road widening for the Trunk Bus Daan Mogot (1)		Yes		5.6	192	
R16	Road widening for the Trunk Bus Daan Mogot (2)		Begin	Yes	9.3	543	
R17	Road widening for the Trunk Bus Serpong Raya		Yes		9.3	318	
R18	Widening of the Existing Roads to accommodate Bus Lane	Begin	Yes		56.5	1,663	
R19(1)	Arterial Road Development for Regional Development and Enhancement of Bus Service Coverage (Widening)	Begin	Continue	Yes	228.3	5,454	
R19(2)	Arterial Road Development for Regional Development and Enhancement of Bus Service Coverage (New Road)	Begin	Continue	Yes	76.2	2,597	
R19(3)	2-lane Standardization for Regional Development	Begin	Continue	Yes	34.3	786	
R20a	Access Road to Pesing, Kembangan, Bojong Indah, Rawa Buaya, Kalideres, Poris, Batu Ceper and Tangerang railway Station on the Tangerang Line	Begin	Continue	Yes	-	274	8 stations
R20b	Access Road to Tanah Abang, Palmerah, Limo, Kebayoran, Bintaro, Pondok Ranji, Jurang Manggu, Sudimara, Ciater, Rawa Buntu, Serpong, Cisauk and Cicayur Railway Stations on the Serpong Line	Begin	Continue	Yes	-	663	13 stations

Road Network Development (Cont'd)							
R20c	Access Road to Klender, Buaran, Klender Baru, Cakung, Kranji, Bekasi, Tambun, Cibitung and Cikarang Railway Stations on the Bekasi Line	Begin	Continue	Yes	-	442	9 stations
R20d	Access Road to Railway Station Bogor, Cilebut, Bojong Gede, Citayam, Depok, Depok Baru, Pondok Cina, Universitas Indonesia, Universitas Pancasila, Lenteng Agung, Tanjung Barat, Pasar Minggu, Pasar Minggu Baru, Duren Kalibata, Cawang, Manggarai, Juanda, Sawah Besar, Mangga Besar and Jakarta Kota Railway Stations on the Bogor and Central Line	Begin	Continue	Yes	-	1488	20 stations
R20e	Access Road to Kp. Bandan, Angke, Karet, Rasuna Said, Mampang, Duri, Rajawali, Pasar Senen, Kramat, Pondok Jati, Jatinegara and New Jakarta Kota Railway Stations on the East and West Lines	Begin	Continue	Yes	-	468	12 stations
R21	City Bypass Development	Begin	Continue	Continue	10.0	293	Partly after 2020 Cost until 2020 is 117
R22	Flyovers/Underpasses at Bottleneck Intersections	Begin	Continue	Yes	60 Places	3,565	
R23	Road Maintenance	Begin	Continue	Continue		13,220	After 2020
R24	Road widening for the Trunk Bus (Fatmawati)	Yes			4.5	711	
R25	Road widening for the Trunk Bus (Siliwangi)	Begin	Yes		4.6	105	
R26	Balaraja – Teluknaga Toll Road				35.0	1,808	After 2020
R27	Cengkareng Access Improvement	Begin	Yes		4.0	402	
R28	Road widening for the Trunk Bus (West side of Pulogadung)	Yes			0.9	149	Cost is in Oct. 2003 due to Pre F/S

Improvement of Traffic Control System and Demand Management							
Code	Project / Program	Timing			Length (Km)	Project Cost (Billion. Rp)	Subject to
		Within	Next	Up to 2020			
		4 Years	7 Years				
C01	Traffic Demand Management (Area Pricing etc.) in DKI Jakarta	Begin	Continue	Yes	-	700	Provision of better level of public transport service such as Busway or Jakarta MRT
C02	Intensive improvement at bottleneck sections in Jakarta	Yes			-	34	Clearing of obstacles and illegal occupants
C03	Unification and Upgrading of Area Traffic Control (ATC) System in Jakarta		Yes		-	210	
C04	Bus Priority Measures in Jakarta	Begin	Yes		-	-	
C05	Traffic Information System for Surface Road	Yes			-	58	
C06	Management of Public Transportation in Bodetabek	Yes			-	-	

Improvement of Traffic Control System and Demand Management (Cont'd)							
C07	Traffic Management at Pasar in Bodetabek	Yes			-	12	
C08	Traffic Engineering (Geometric) Improvement in Bodetabek	Yes			-	22	
C09	Toll Road Traffic Information System	Yes			-	872	
C10	Electric Toll Collection (ETC)	Yes			-	610	
C11	Repair and Installation of Traffic Signals	Begin			-	245	

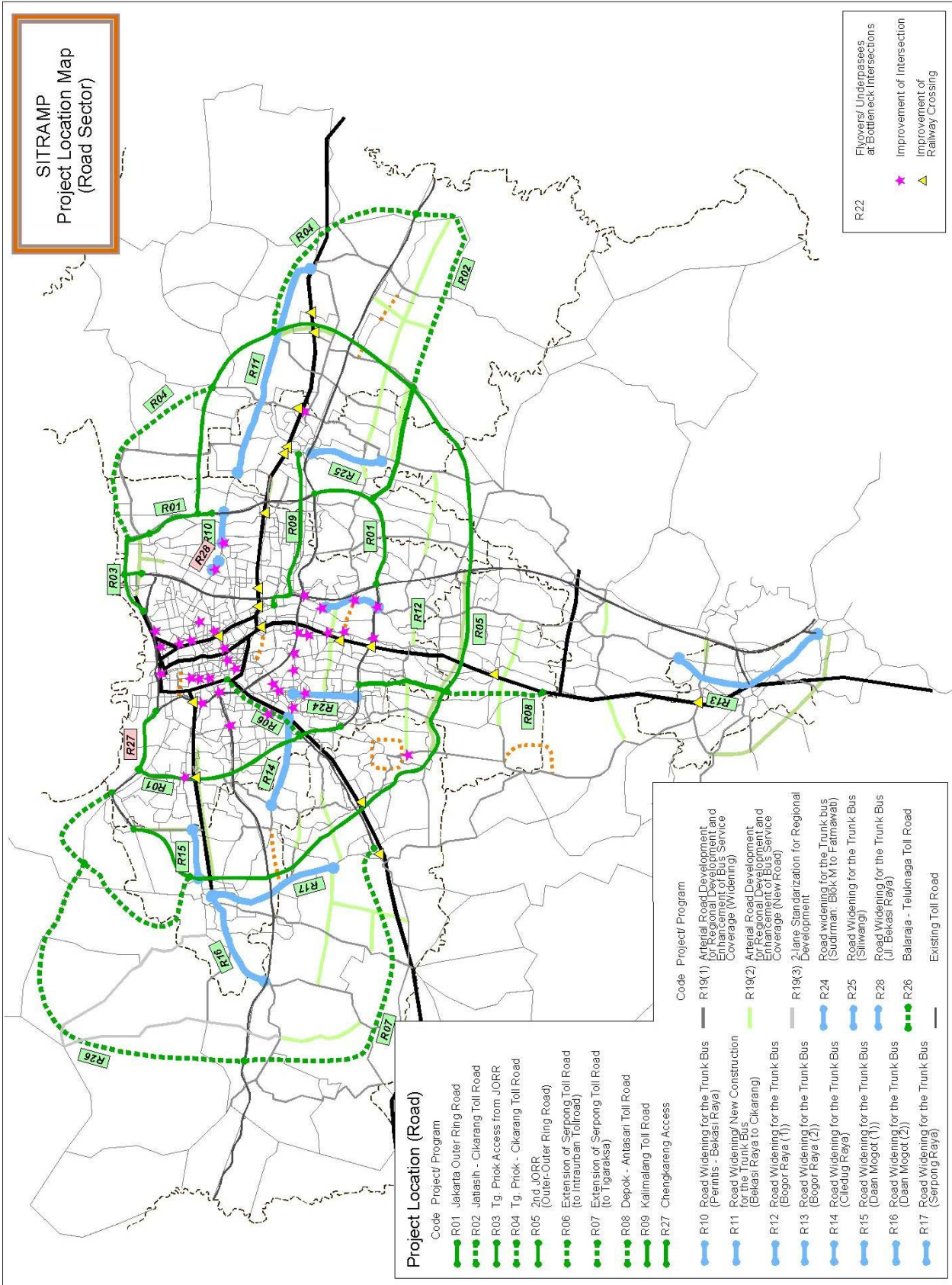


Figure 12.1 Project Location Map (Road)

Bus Transportation System and Interchange Facility Development							
Code	Project / Program	Timing			Length (Km)	Project Cost (Billion. Rp)	Note
		Within 4 Years	Next 7 Years	Up to 2020			
PB01	Busway System (1) Kota - Lebak Bulus (Extension of Kota – Blok M)	Yes			21.0	61	Replaced by MRT in the future
PB02	Busway System (2) Kota – Ragunan	Yes			17.5	151.8	
PB03	Busway System (3) Kota – Kampung Rambutan	Yes			24.0	89	
PB04	Busway System (4) Kalideres – Pulogadung	Yes			25.5	98.5	
PB05	Busway System (5) Extension of Kalideres – Pulogadung to Cimone (Kota Tangerang) and Bekasi/Cikarang (Kota and Kab Bekasi)		Begin	Yes	46.5	93	Subject to Busway System (4) Kalideres – Pulogadung
PB06	Busway System (6) Ciledug Raya		Yes		51.0	113	
PB07	Busway System (7) Jl Raya Serpong (Kota and Kab Tangerang)		Yes		18.5	26	
PB08	Busway System (8) Jl Raya Bogor (Kota and Kab Bogor)		Yes		14.5	20	
PB09	Reform Bus Licensing Scheme	Begin					
PB10	Enhancement of Bus Feeder Services to Rail Stations		Yes		-	-	
PB11	Bus Route Restructuring (Separation of trunk bus routes and feeder bus routes)	Yes					
PB12	Intermodal Facility Development with Barrier-free Facilities		Yes				
PB13	Bus Terminal Development	Begin	Continue	Yes	27 places	86	

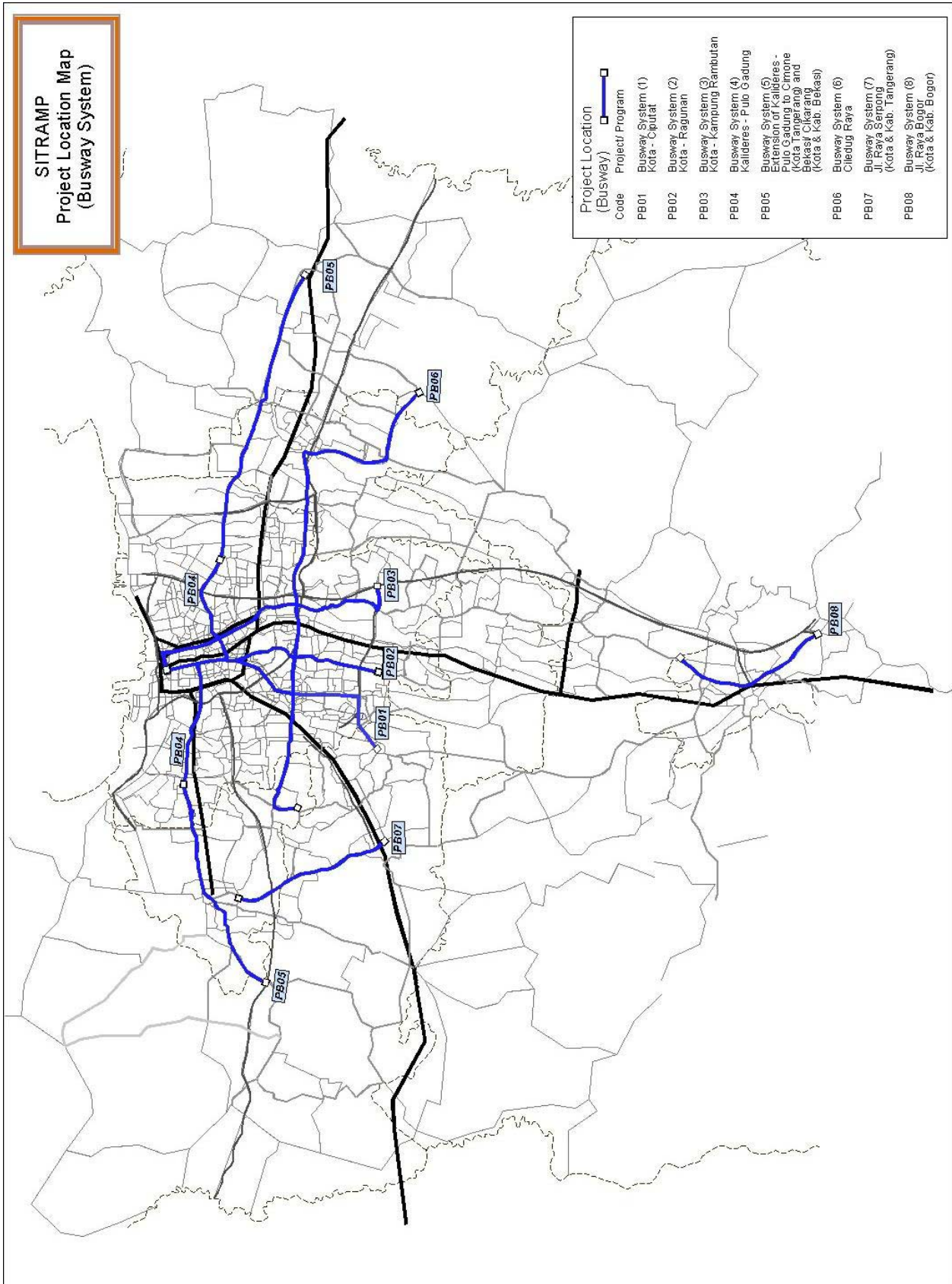


Figure 12.2 Project Location Map (Busway)

Railway System Development							
Code	Project/ Program	Timing			Length (Km)	Project Cost (Billion. Rp)	Note
		Within 4 Years	Next 7 Years	Up to 2020			
PR01	Bekasi Line Double Double Tracking and Electrification	Begin	Yes		35.0	7,986	
PR02	Serpong Line Short Cut Between Palmerah and Karet		Yes		5.2	1,528	Incl. 1 New stations
PR03	Tangerang Line Short Cut				1.3	330	After 2020, including (new) Roxy Station Development
PR04	West Line Double Double Tracking (Karet – Manggarai)				4.3	1068	After 2020
PR05	Manggarai – Pondok Jati Short Cut				2.0	404	After 2020
PR06	MRT Balaraja – Cikarang				78.2	14,009	After 2020
PR07	Tangerang – Cengkareng Connection				5.0		After 2020
PR08	Serpong Line Double Tracking Between SRP and THB	Begin	Yes		23.4	1,720	Including 5 New Station
PR09	East Line Track Elevation				5.4	943	After 2020
PR10	New Jakarta Kota Station Development				2	1,682	After 2020
PR11	MRT Ciledug – Bekasi				45.7	11,766	After 2020
PR12	Jakarta MRT Kota – Ciputat	Begin	Continue	Yes	24.7	10,670	
PR13	Outer Ring Railway				-	-	After 2020
PR14	Development of Railway Spare Parts Factory for Jabotabek Railway	Begin	Yes		-	303	
PR15	Training Program for Railway Electrical, Signaling and Telecommunication System	Yes			-	240	
PR16a	Improvement of Station Facility at Bogor, Cilebut, Bojong Gede, Citayam, Depok, Pasar Minggu and Cawang Stations on the Bogor Line	Yes				87	7 stations
PR16b	Improvement of Station Facility of Rajawali, Gang Sentiong and Kramat Stations on the Eastern Line	Yes			-	6	3 stations
PR17	Purchase of Electric Train Cars for the Bogor Line	Begin	Yes			2,804	309 trains
PR18a	Provision of 2 new stations (Matraman St. and Bekasi Timur St.) on the Bekasi Line	Begin	Yes		-	130	2 stations
PR18b	Development of a New Station between Bogor and Cilebut on the Bogor Line	Begin	Yes			62	1 station
PR19a	Station Square Development at 1 Station (Tangerang) on the Tangerang Line			Yes	-	2	1 station
PR19b	Station Square Development at 8 stations (Jatinegara, Klender, Klender Baru, Cakung, Kranji, Bekasi, Tambun and Cikarang) on the Bekasi Line			Yes	-	128	8 stations
PR19c	Station Square Development on the Bogor Line and Central Line at Bogor, Cilebut, Bojong Gede, Citayam, Depok, Depok Baru, Pondok Cina, Lenteng Agung, Pasar Minggu, Duren Kalibata, Tebet, Manggarai and Jakarta Kota Stations			Yes		860	13 stations

Railway System Development (Cont'd)							
PR19d	Station Square Development on the East/ West Line at Sudirman (Dukuh Atas), and Pasar Senen Stations			Yes		52	2 stations
PR19e	Station Square Development on the Serpong Line at Tanah Abang Stations			Yes		24	1 stations
PR20	Train Radio System			Yes	-	491	
PR21	Rehabilitation of Signaling /Telecommunication Facilities	Begin	Yes		-	178	
PR22a	Addition of Signaling Facility and Improvement / Addition of Substations on the Bekasi Line	Yes			-	444	For 4-minute Headway Operation
PR22b	Addition of Signaling Facility and Improvement / Addition of Substations on the Serpong Line	Yes			-	303	For 4-minute Headway Operation
PR22c	Addition of Signaling Facility and Improvement / Addition of Substations on the Bogor Line		Yes			705	For 4-minute Headway Operation
PR22d	Addition of Signaling Facility and Improvement / Addition of Substations on the Eastern/ Westernr Line				-	413	After2020 For 4-Minute Headway Operation
PR23	Automatic Train Stop (ATS) System			Yes	-	249	

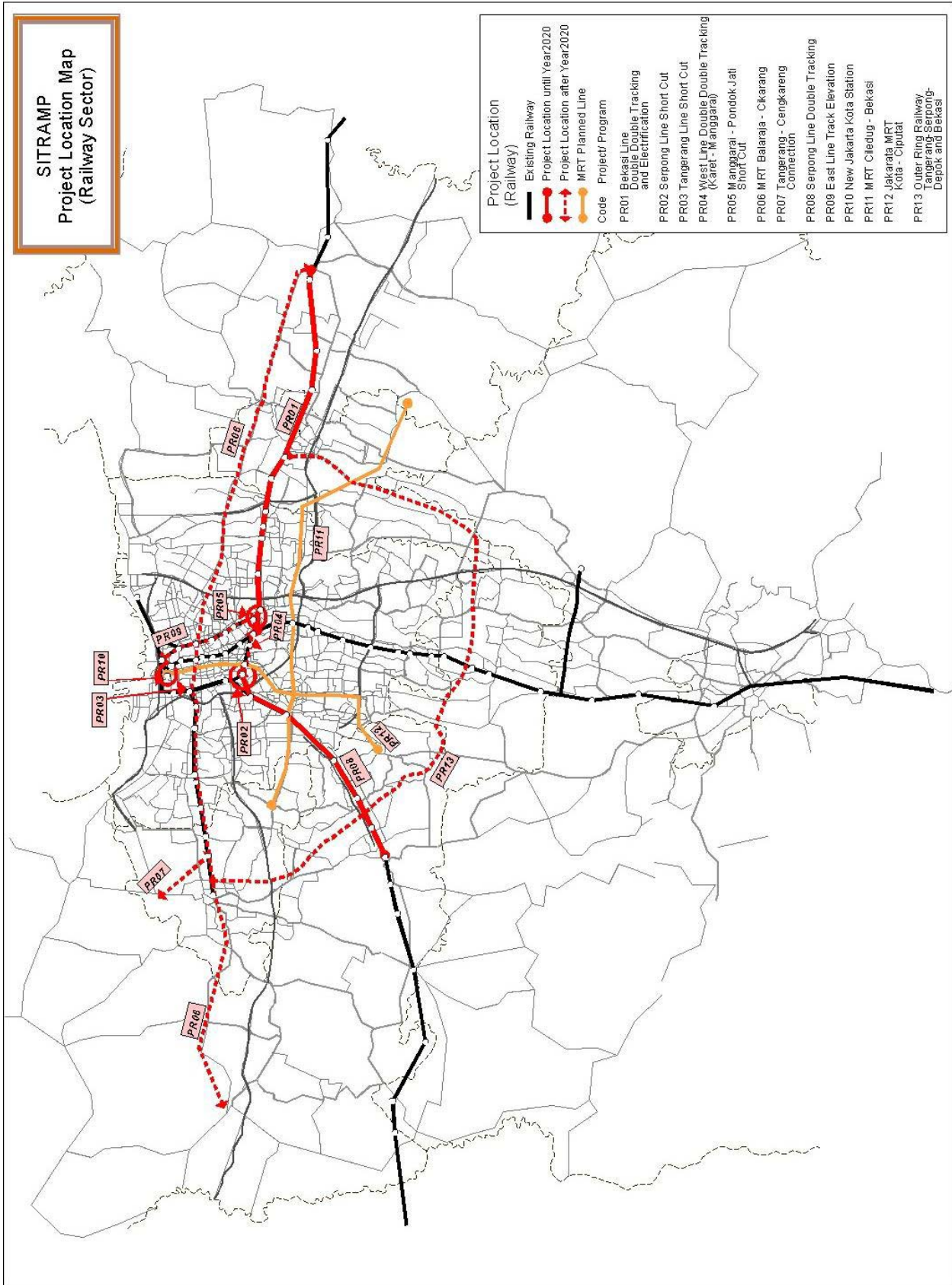


Figure 12.3 Project Location Map (Railway)

Improvement of Transportation Safety and Security						
Code	Project/ Program	Timing			Project Cost (Billion. Rp)	Subject to
		Within 4 Years	Next 7 Years	Up to 2020		
S01	Traffic Safety Education Program at Schools	Yes				
S02	Traffic Safety Education Program for Drivers	Yes				
S03	Allocation of security guards at railway stations, bus terminals, and bus shelters	Yes				
S04	Establishment of Traffic Accident Database System	Yes			-	

Environmental Betterment						
Code	Project/ Program	Timing			Project Cost (Billion. Rp)	Subject to
		Within 4 Years	Next 7 Years	Up to 2020		
E01	Enhancement of Vehicle Inspection and Maintenance Program		Yes		14	
E02	Promotion of Low Sulfur Diesel			Yes	1,900	
E03	Promotion of Bi-fuel		Yes		150	
E04	Driver Education Program on Driving Manner	Yes			10	To be coordinated with traffic safety program for drivers
E05	Promotion of Natural Gas Vehicle	Yes				

Measures in Urban Planning						
Code	Project/ Program	Timing			Subject to	
		Within 4 Years	Next 7 Years	Up to 2020		
UP01	Provision of high floor area ratio for the surrounding areas of railway stations and major transit interchanges	Begin	Yes			
UP02	Incentives for sub-center developments		Begin			
UP03	Strengthen Development Control	Begin				

Institutional Setup and Reform						
Code	Project/ Program	Timing			Subject to	
		Within 4 Years	Next 7 Years	Up to 2020		
I01	Establish Jabodetabek Planning Commission	Yes				
I02	Establish Jabodetabek Transportation Authority		Yes		Convert from the Planning Commission	
I03	Privatization of PT KA and Establishment of Jabodetabek Metro Railway Corporation		Yes			
I04	Rationalization of Perum PPD		Yes			
I05	Integrated Training Program on Transportation Planning for Local Government Officers	Yes				

Financial Arrangement					
Code	Project/ Program	Timing			Subject to
		Within 4 Years	Next 7 Years	Up to 2020	
F01	Re-arrangement of revenue sharing among different levels of governments (Central Govt., Provincial Govt., and Local Govt.)	Begin Study			
F02	Introduction of Road Fund	Yes			
F03	Expand tax base		Yes		
F04	Gradual increase of gasoline tax	Begin			