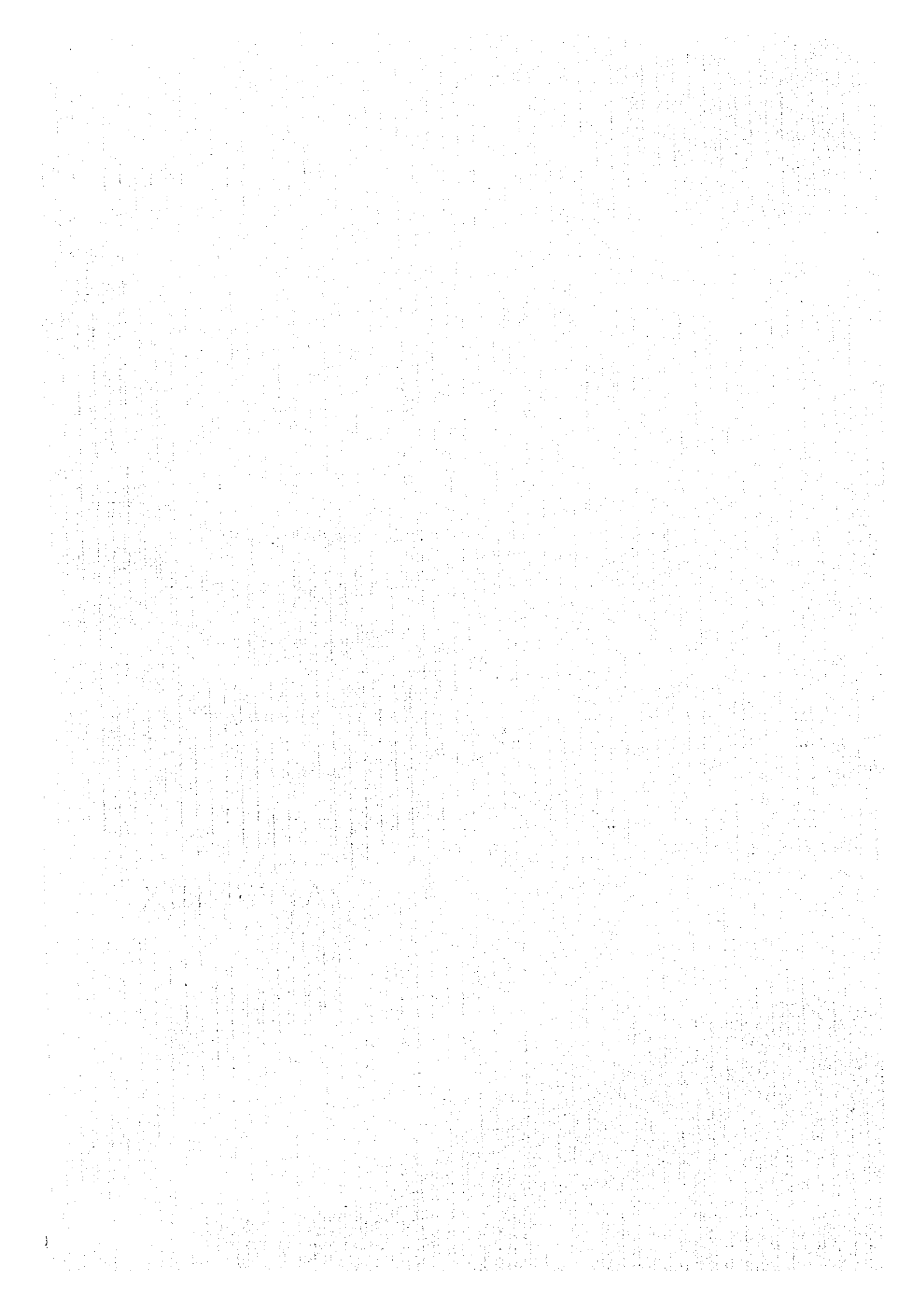
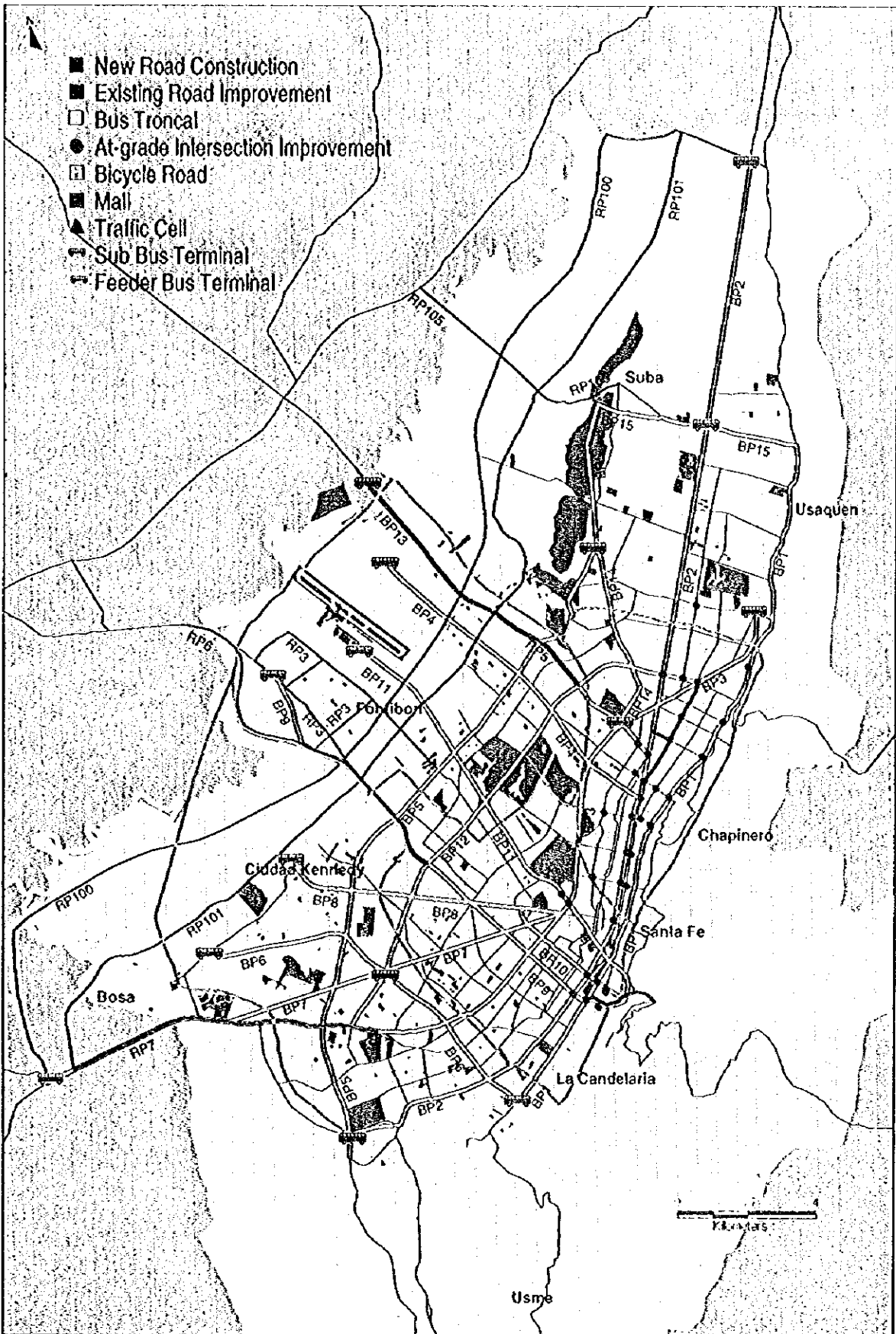
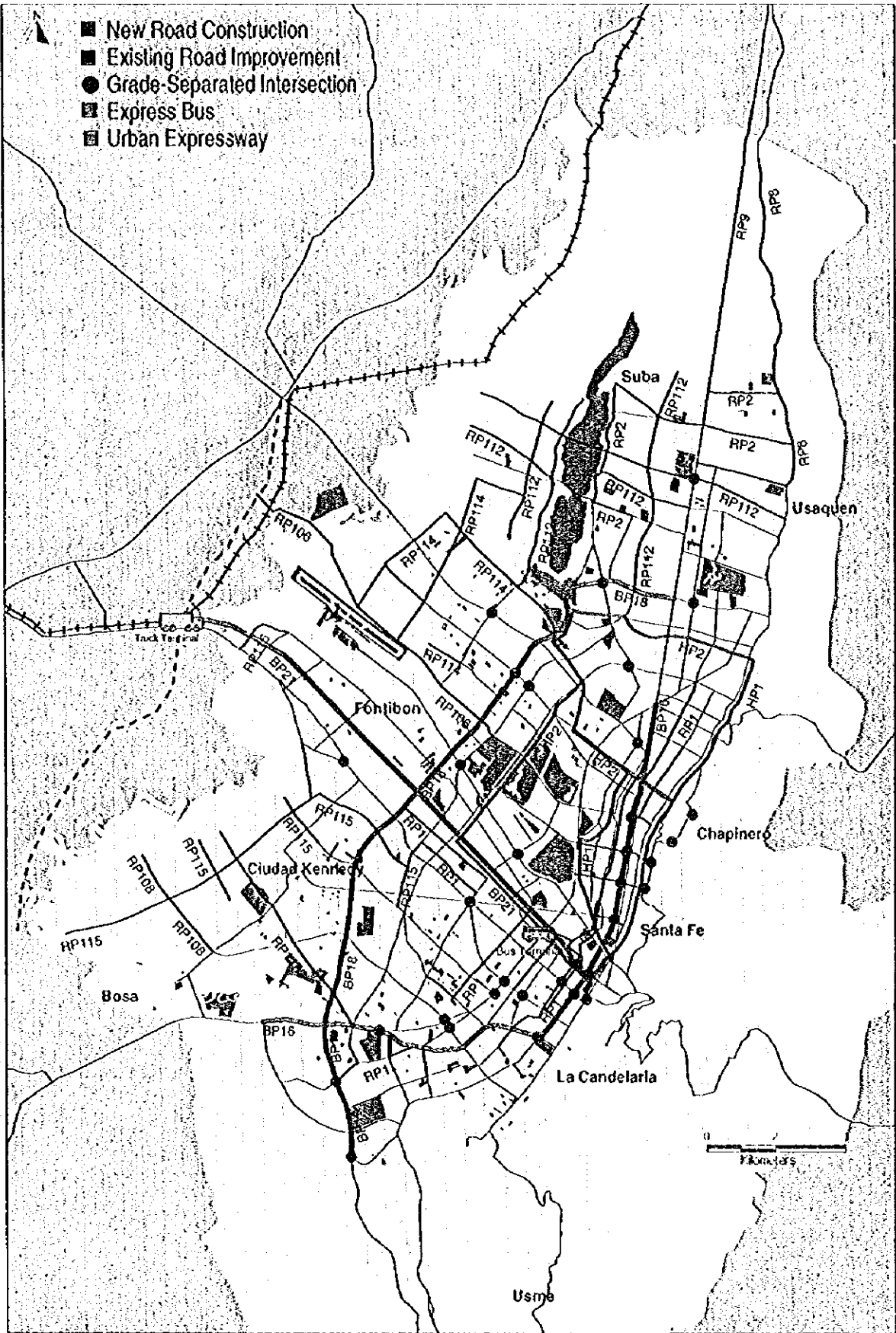


## APPENDIX

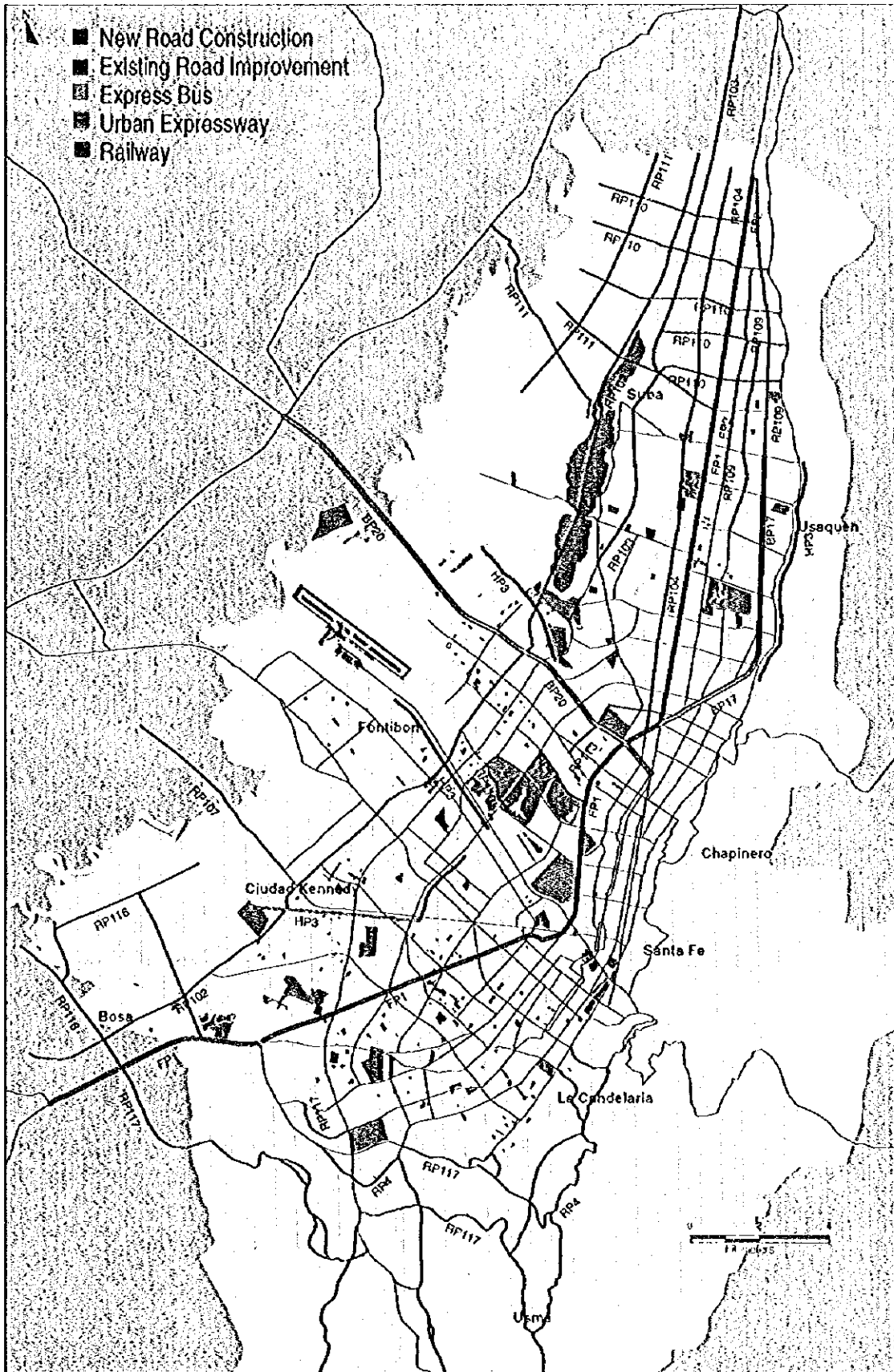





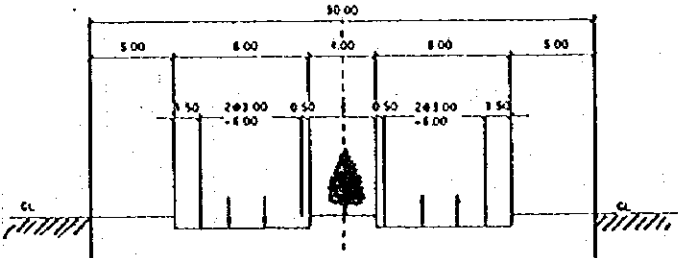
Projects in the Short Term (1996-2001)



Projects in the Medium Term (2002-2010)



Projects in the Long Term (2011-2020)

PROJECT NAME	CENTRO AREA ROAD IMPROVEMENT PROJECT (RP-1)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project consists of 13 road segments.</li> <li>2) These roads are improved as V-3 road ( 4-lane dual carriageway).</li> <li>3) Total road length to be improved are about 30 km.</li> <li>4) Total project cost are about 144 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For mitigation of traffic congestion in the central business areas.</li> <li>2) For maintaining of functional road network.</li> </ol>

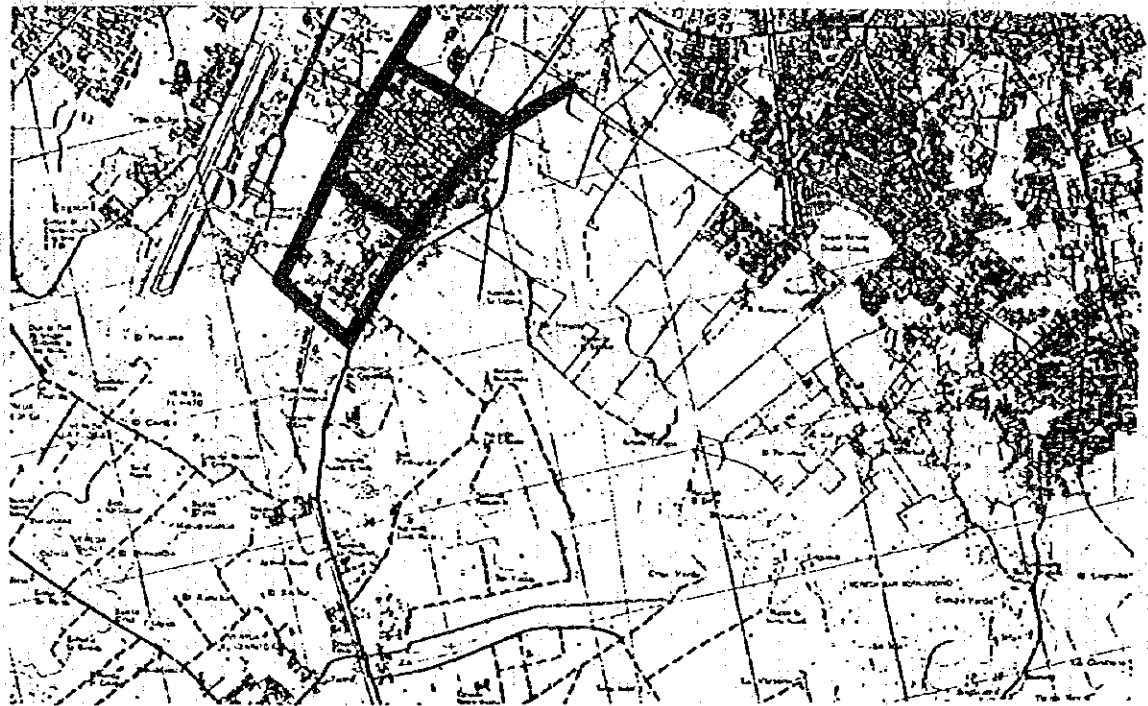
PROJECT NAME	SANTA MONICA AREA ROAD IMPROVEMENT PROJECT (RP-2)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project consists of 3 road segments.</li> <li>2) Ave. Bosco is improved as V-1 road with 10-lane dual carriageway.</li> <li>3) Other 2 roads are improved as V-3 road with 4-lane dual carriageway.</li> <li>4) Total road length to be improved are about 18 km.</li> <li>5) Total project costs are about 70 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For stimulation of development activities in Santa Monica Area.</li> <li>2) For mitigation of traffic congestion.</li> <li>3) For maintaining of functional road network.</li> </ol>

PROJECT NAME

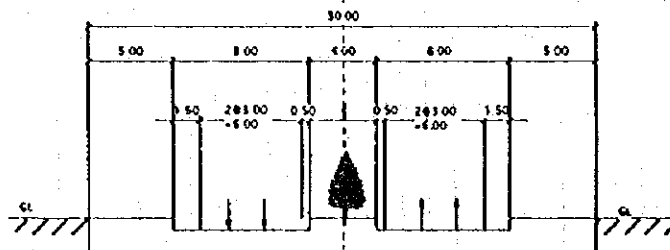
FONTIBON AREA ROAD IMPROVEMENT PROJECT

(RP-3)

PROJECT LOCATION MAP



CROSS SECTION




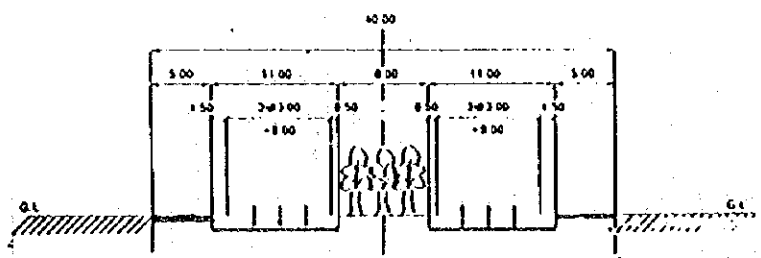
PROJECT OUTLINE


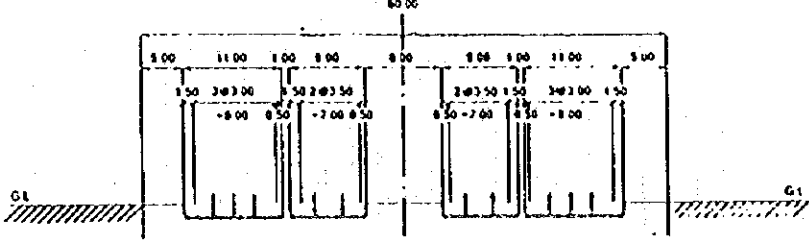
- 1) The project consists of 4 road segments.
- 2) These roads are improved as V-3 road with 4-lane dual carriageway.
- 3) Total road length to be improved are about 9.3 km.
- 4) Total project costs are about 49 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For stimulation of development activities in Fontibon Area.
- 2) For mitigation of traffic congestion.
- 3) For maintaining of functional road network.



PROJECT NAME	USME AREA ROAD IMPROVEMENT PROJECT (RP-4)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project consists of 3 road segments.</li> <li>2) Two road segments are improved as V-2 road with 6-lane dual carriageway.</li> <li>3) One road segment is improved as V-3 road with 4-lane dual carriageway.</li> <li>4) Total road length to be improved are about 38 km.</li> <li>5) Total project costs are about 155 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For stimulation of development activities in Usme area.</li> <li>2) For maintaining of trunk road network in Usme area.</li> <li>3) For mitigation of traffic congestion.</li> </ol>	

PROJECT NAME	AUTOPISTA MEDELLIN IMPROVEMENT PROJECT (RP-5)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is improvement of existing Autopisat Medellin.</li> <li>2) This road is improved as V-1 road with 10-lane dual carriageway.</li> <li>3) 4 lanes at the center of road are planed as Bus-tranctal</li> <li>4) The detailed design of this road is conducting.</li> <li>4) The length to be improved is about 12 km.</li> <li>5) The project cost is about 48 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of trunk road network.</li> <li>2) For mitigation of traffic congestion on Autopista Medellin.</li> <li>3) For maintaining of trunk public transport network.</li> <li>4) For stimulation of development activities in Bogota Metropolitan Area.</li> </ol>	

PROJECT NAME

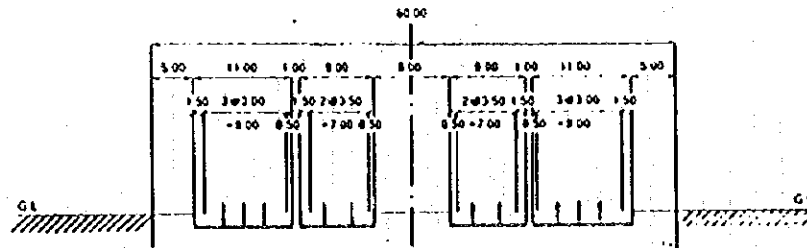
AVENIDA CENTENARIO IMPROVEMENT PROJECT

(RP-6)

PROJECT LOCATION MAP



CROSS SECTION


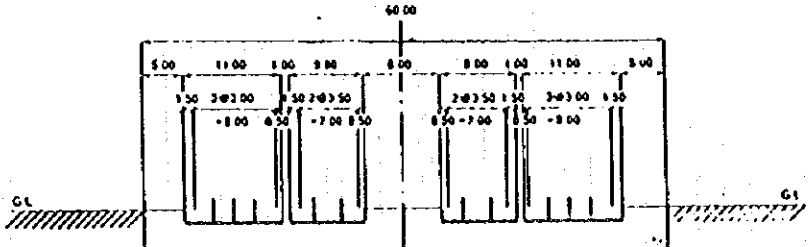


PROJECT OUTLINE

- 1) The project is improvement of existing Ave. Centenario.
- 2) This road is improved as V-1 road with 10-lane dual carriage way.
- 3) The length to be improved is about 11 km.
- 4) The project cost is about 43 million US\$ in 1996 price.

NECESSITY OF PROJECT

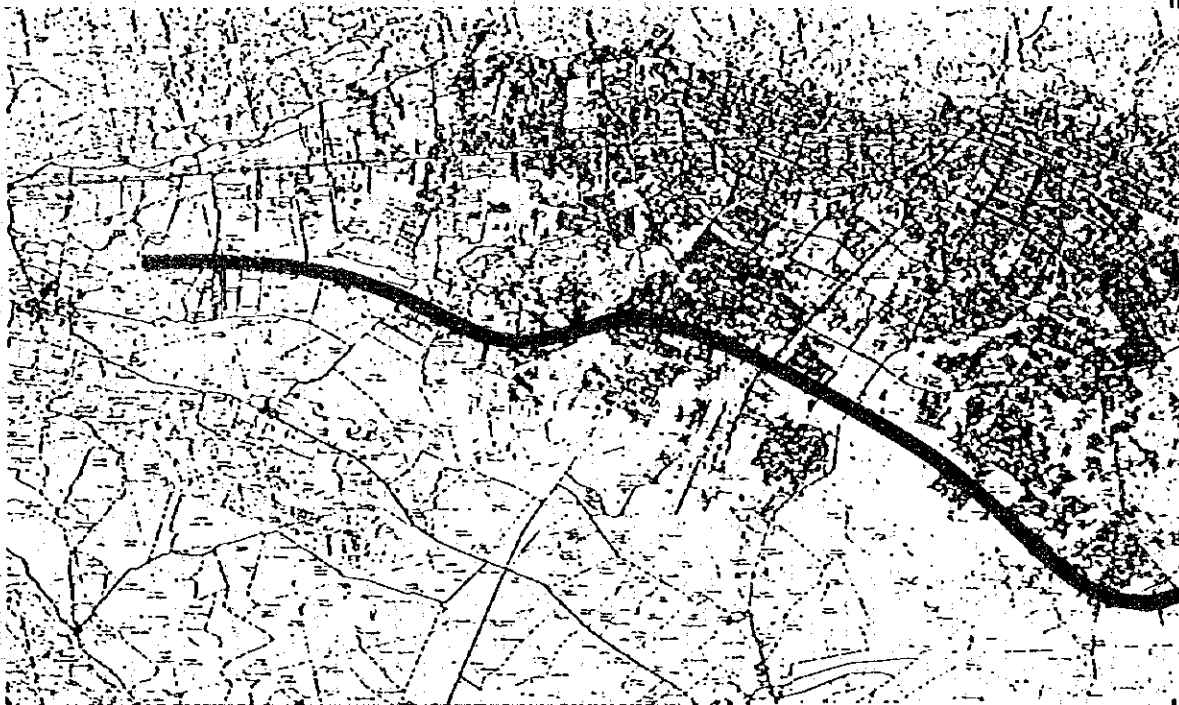
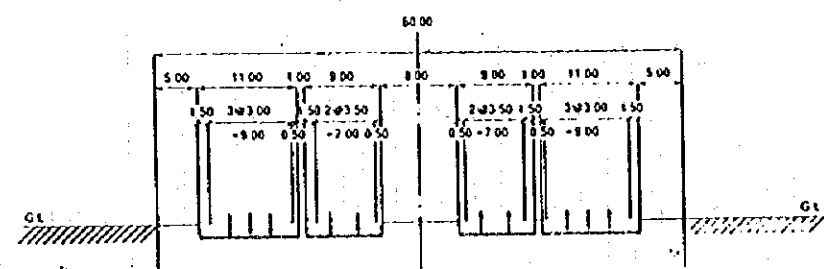
- 1) For maintaining of trunk road network.
- 2) For mitigation of traffic congestion on Ave. Centenario.
- 3) For stimulation of development activities in Bogota Metropolitan Area.

PROJECT NAME	AUTOPISTA SUR IMPROVEMENT PROJECT (RP-7)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is improvement of existing Autopista Sur.</li> <li>2) This road is improved as V-1 road with 10-lane dual carriageway.</li> <li>3) The length to be improved is about 9 km.</li> <li>4) The project cost is about 36 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For mitigation of traffic congestion on Autopista Sur.</li> <li>2) For maintaining of trunk road network.</li> <li>3) For stimulation of development activities in Bogota Metropolitan Area.</li> </ol>	


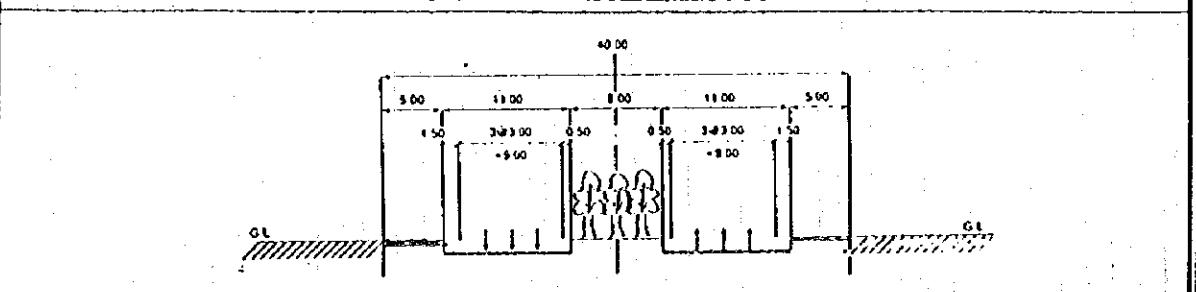
PROJECT NAME	AVENIDA 7a IMPROVEMENT PROJECT		(RP-8)
PROJECT LOCATION MAP			
CROSS SECTION			
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is improvement of existing Ave. 7a at north section.</li> <li>2) This road is improved as 6-lane with dual carriageway.</li> <li>3) The length to be improved is about 10 km.</li> <li>4) Some parts of this project is under construction.</li> <li>5) Total project cost is about 63 million US\$ in 1996 price.</li> </ol>		
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For mitigation of traffic congestion on Ave. 7a.</li> <li>2) For stimulation of housing development in north area of Bogota.</li> <li>3) For maintaining of trunk road network in Bogota City.</li> </ol>		

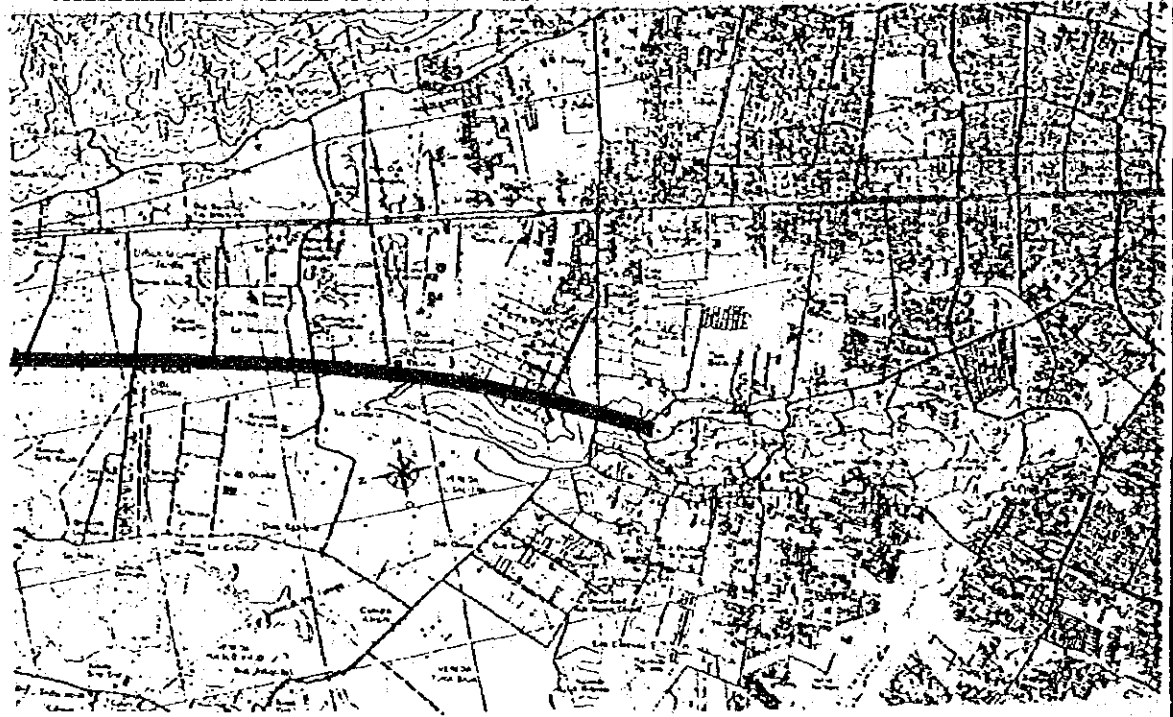
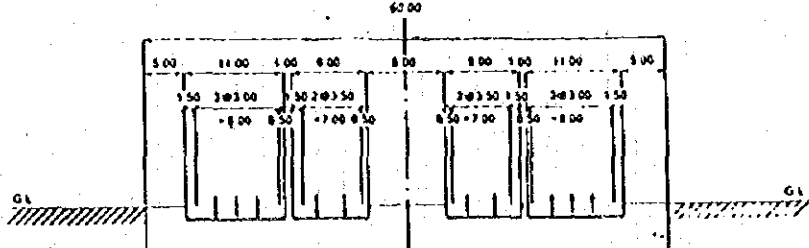
PROJECT NAME	AUTOPISTA NORTE IMPROVEMENT PROJECT (RP-9)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is improvement of existing Autopista Norte.</li> <li>2) This road is improved as V-0 road with 12-lane dual carriageway.</li> <li>3) The length to be improved is about 9 km.</li> <li>4) The project cost is about 36 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of national trunk road network.</li> <li>2) For mitigation of traffic congestion on Autopista Norte.</li> <li>3) For stimulation of housing development activities in northern parts of Bogotá City.</li> <li>4) For stimulation of development activities in Bogotá Metropolitan Area.</li> </ol>	

PROJECT NAME	AVENIDA CUNDINAMARCA CONSTRUCTION PROJECT (RP-100)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction as Ave. Cundinamarca.</li> <li>2) The detailed design of this road is under going.</li> <li>3) The total length is about 41 km with 2 interchanges.</li> <li>4) This road is classified as V-Q road with 12-lane with dual carriageway.</li> <li>5) The railway lain will be constructed at central reservation of this road.</li> <li>6) The project cost is about 734 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of trunk road network in Bogota City and its surrounding area.</li> <li>2) For stimulation of development activities in Bogota City.</li> <li>3) For stimulation of development activities in Bogota Metropolitan Area.</li> <li>4) For distribution of traffic flow from out side Bogota City.</li> </ol>

PROJECT NAME	AVENIDA CALI CONSTRUCTION PROJECT (RP-101)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction as Ave. Cali.</li> <li>2) This road is classified as V-1 road with 10-lane dual carriage way.</li> <li>3) The length is about 35 km with 7 grade separated intersections.</li> <li>4) The project cost is about 451 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For contribution of development in Norte, Suba, Fontibon, Kennedy, Bosa and surrounding areas.</li> <li>2) For maintaining of trunk road network in Bogotá City.</li> </ol>	



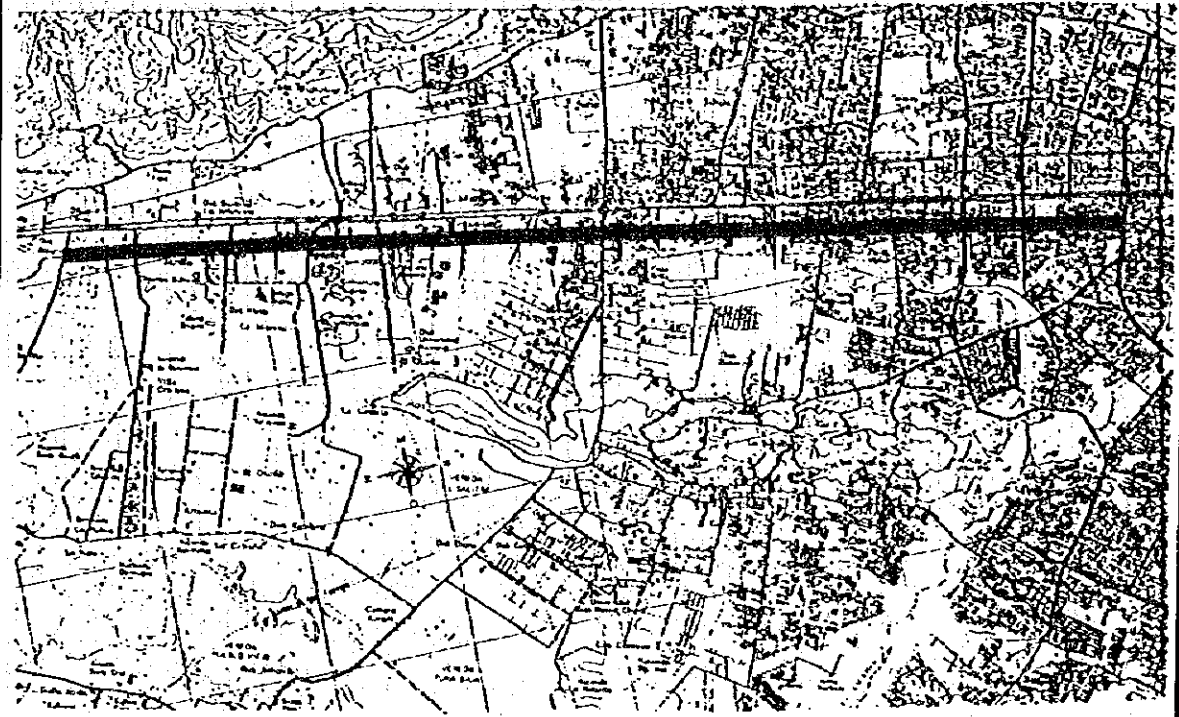
PROJECT NAME	SUBA- KENNEDY ROAD CONSTRUCTION PROJECT (RP-102)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction as Suba- Kennedy Road.</li> <li>2) This road is classified as V-2 road with 6-lane dual carriageway.</li> <li>3) The road is about 34 km with 3 grade separated intersections.</li> <li>4) The route is connected on Norte, Suba, Kennedy, Bosa, and Soacha.</li> <li>5) The project cost is about 288 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of future traffic demand.</li> </ol>

PROJECT NAME	AVENIDA SUBA EXTENTION CONSTRUCTION PROJECT (RP-103)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction as Ave. Suba Extension Road.</li> <li>2) This road is classified as V-1 Road with 10-lane dual carriageway.</li> <li>3) The road length is about 12 km with 2 grade separated intersections.</li> <li>4) The project cost is about 156 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of future traffic demand.</li> <li>2) For stimulation of development activities in northern area of Bogota City.</li> <li>3) For maipntainjng of trunk road network.</li> </ol>

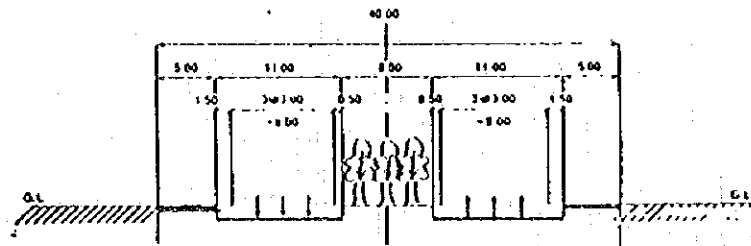
PROJECT NAME

NORTE- ESTORIL ROAD CONSTRUCTION PROJECT (RP-104)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is new road construction as Norte-Estoril Road.
- 2) This road is classified as V-2 road with 6-lane dual carriageway.
- 3) The road length is about 16 km.
- 4) The project cost is about 130 million US\$ in 1998 price.

NECESSITY OF PROJECT

- 1) For maintaining of future traffic demand.

PROJECT NAME

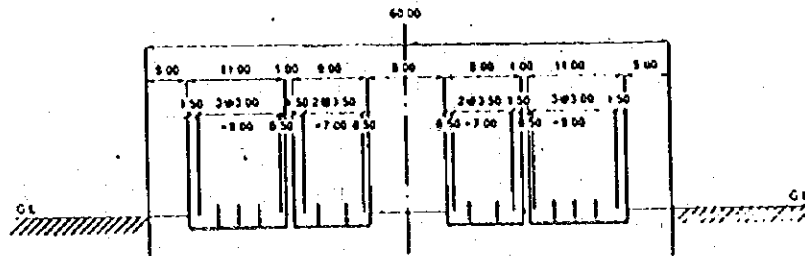
AVE. SAN JOSE CONSTRUCTION PROJECT

(RP-105)

PROJECT LOCATION MAP



CROSS SECTION

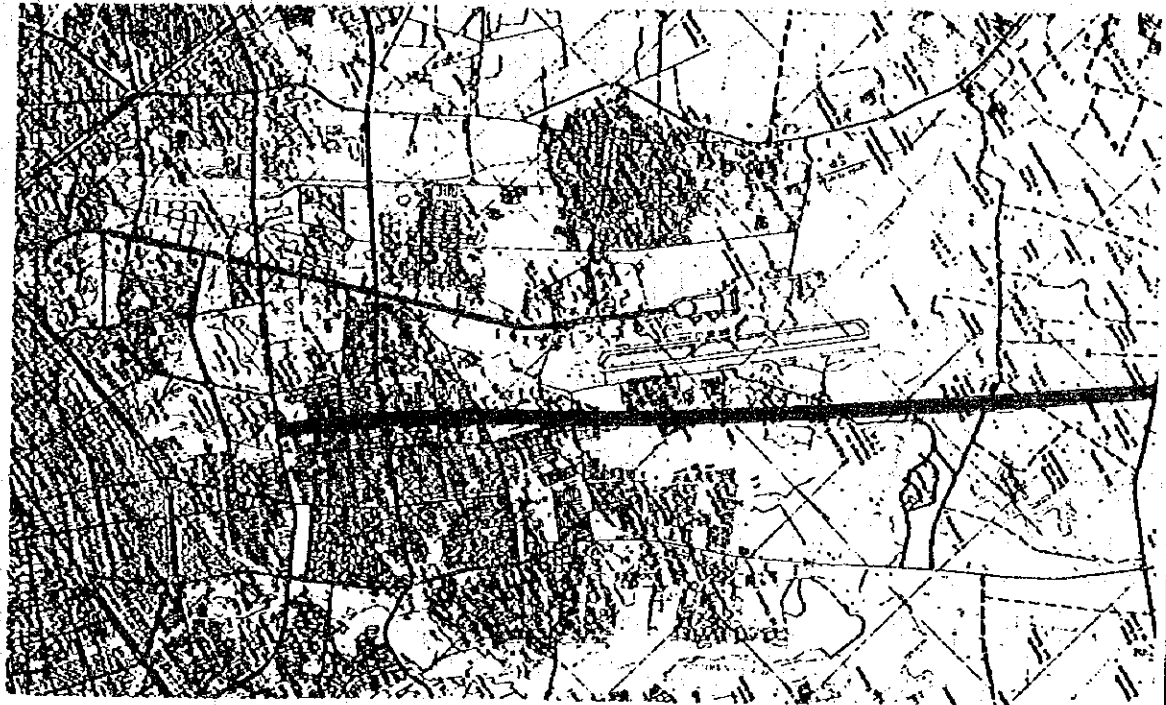
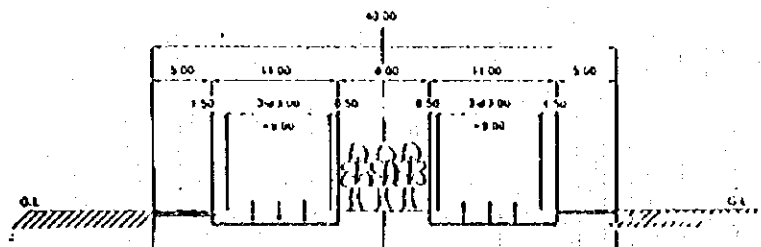


PROJECT OUTLINE

- 1) The project is new road construction as Ave. San Jose.
- 2) This road is classified as V-1 road with 10-lane dual carriageway.
- 3) The road length is about 7 km with one grade separated intersection.
- 4) The project cost is about 86 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For maintaining of trunk road network
- 2) For maintaining of future traffic demand
- 3) For stimulation of development activities in Suba area.

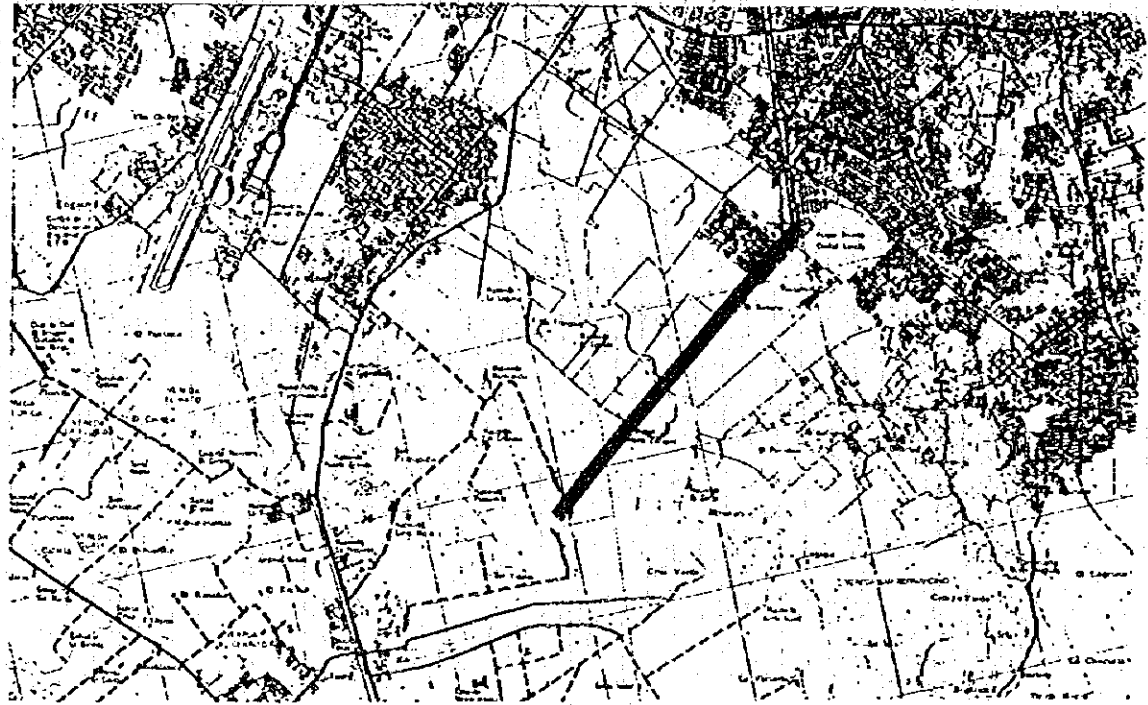
PROJECT NAME	AVE. JOSE CELESTINO CONSTRUCTION PROJECT (RP-106)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction as Ave. Jose Celestino.</li> <li>2) This road is classified as V-2 road with 6-lane dual carriageway.</li> <li>3) The road length is about 10 km with one grade separated intersection.</li> <li>4) The project cost is about 107 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of future traffic demand.</li> <li>2) For stimulation of development activities in Funza and Mosquera areas.</li> </ol>

PROJECT NAME

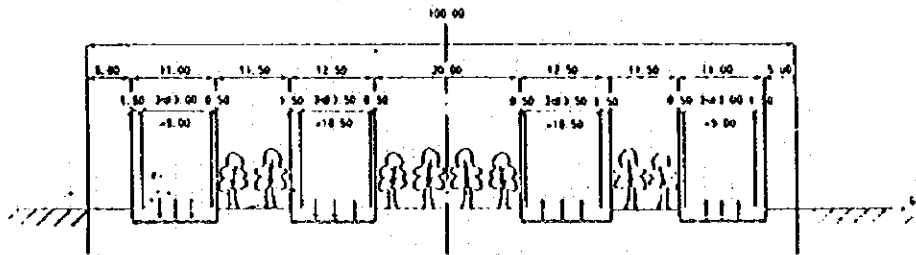
AVE. LAS AMERICAS EXTENSION PROJECT

(RP-107)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is new road construction as Ave. Los Americas Extension.
- 2) This road is classified as V-0 road with 12-lane dual carriageway.
- 3) The road length to be constructed is about 6 km.
- 4) The project cost is about 105 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For maintaining of trunk road network in Bogota Metropolitan Area.
- 2) For stimulation of development activities in Kennedy and Funza areas.

PROJECT NAME

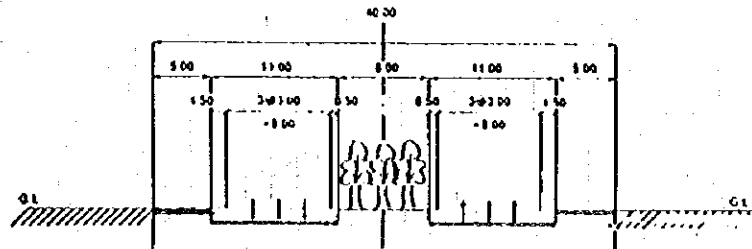
AVE. PRIMERA DE MAYO EXTENSION PROJECT

(RP-108)

PROJECT LOCATION MAP



CROSS SECTION

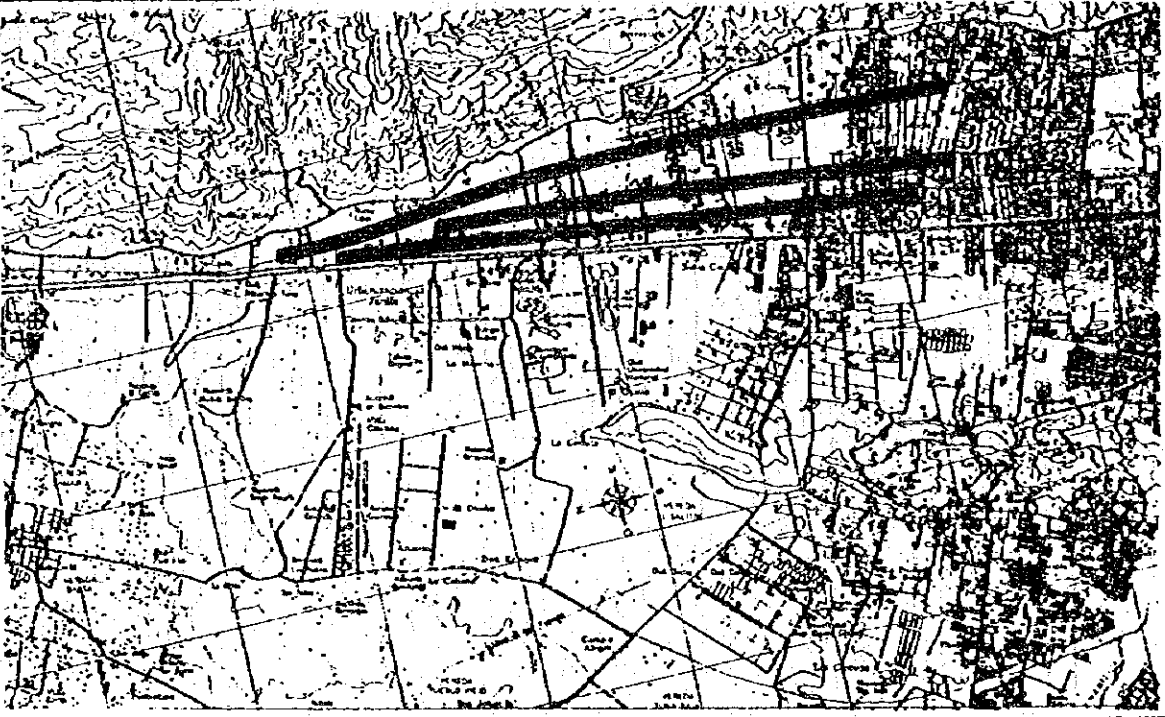
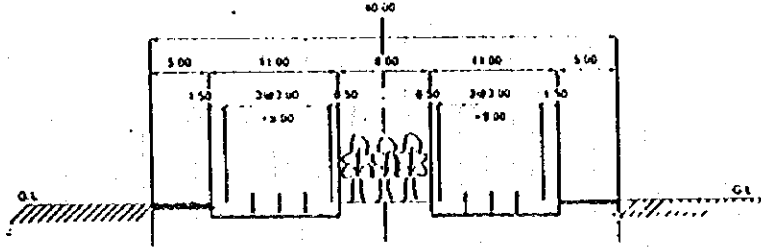


PROJECT OUTLINE

- 1) The project is new road construction as Ave. Primra Mayo Extension.
- 2) This road is classified as V-2 road with 6-lane dual carriageway.
- 3) The road length is about 6 km with 2 grade separated intersections.
- 4) The project cost is about 57 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For maintaining of trunk road network in Kennedy Area.
- 2) For stimulation of development activities in Kennedy area and out side city areas.

PROJECT NAME	NORTE AREA ROAD CONSTRUCTION PROJECT (RP-109)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction.</li> <li>2) The project consists of 3 road segments.</li> <li>3) These roads are classified as V-2 road with 6-lane dual carriageway.</li> <li>4) Total road length is about 22 km.</li> <li>5) The total project costs are about 175 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For maintaining of future traffic dammed.</li> <li>2) For stimulation of development activities in northern areas of Bogota City.</li> </ol>	



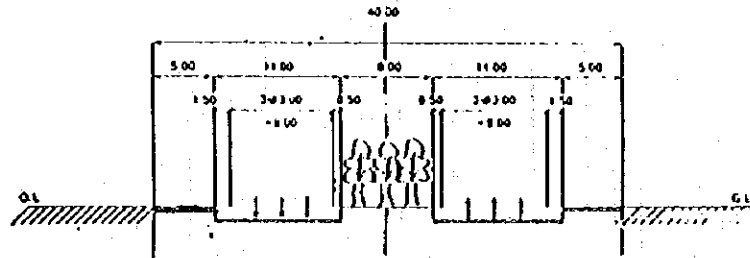
PROJECT NAME

VILLA CRISTINA AREA ROAD CONSTRUCTION PROJECT (RP-110)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is new road construction.
- 2) The project consists of 4 road segments.
- 3) These roads are classified as V-2 road with 6-lane dual carriageway.
- 4) The total road length are 23 km with 8 grade separated intersections.
- 5) The project cost is about 222 million US\$ in 1996 price.

NECESSITY OF PROJECT

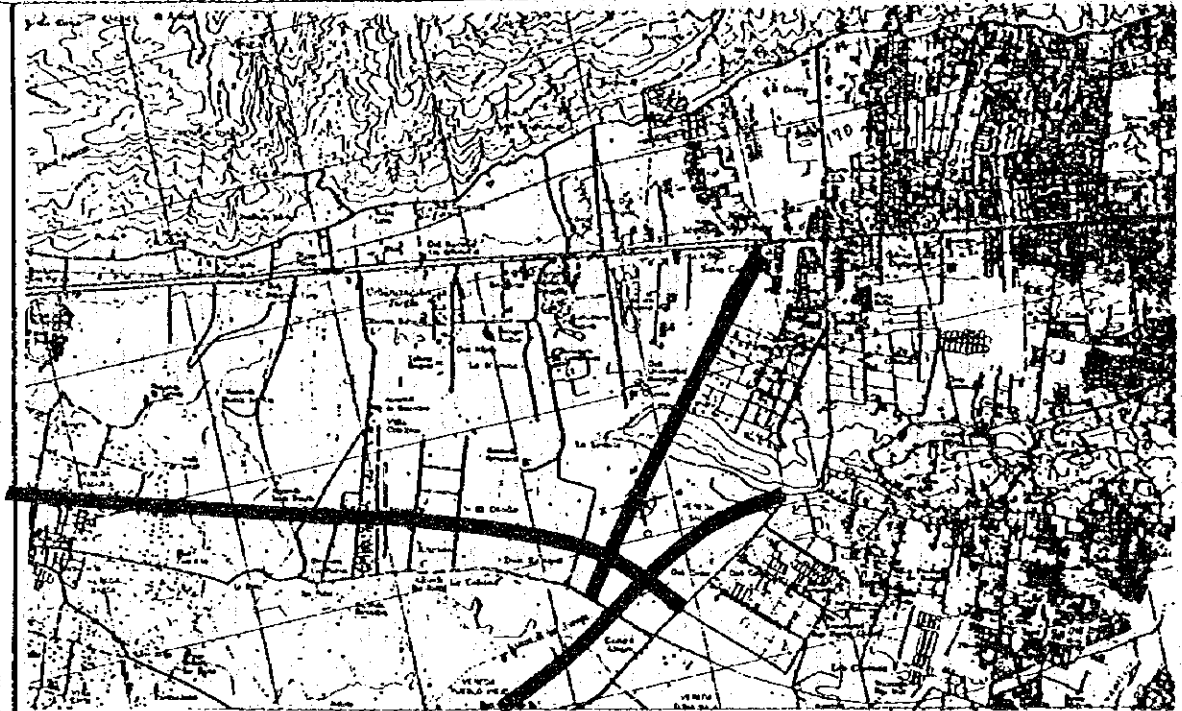
- 1) For maintaining of future traffic demand.
- 2) For stimulation of development activities in Villa Cristina and its surrounding areas.

PROJECT NAME

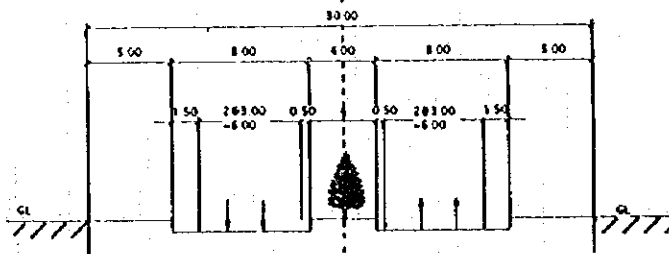
SUBA NORTE ROAD CONSTRUCTION PROJECT

(RP-111)

PROJECT LOCATION MAP



CROSS SECTION

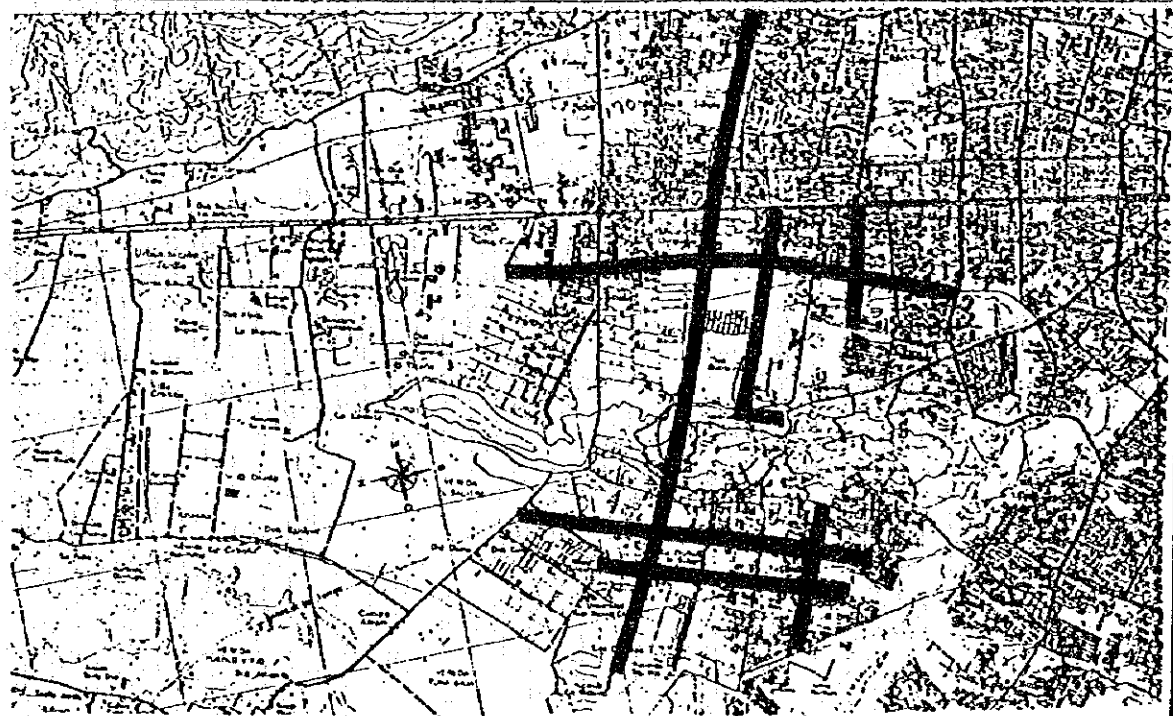
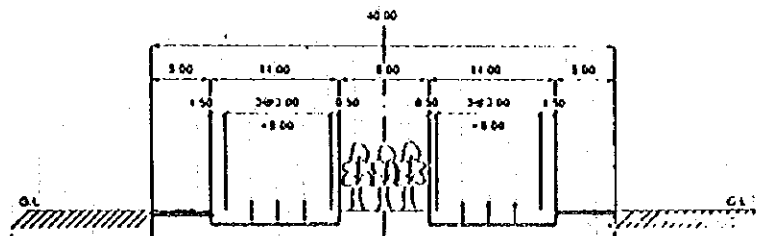


PROJECT OUTLINE

- 1) The project is new road construction.
- 2) The project consists of Ave. Cota and 2 road segments.
- 3) Ave. Cota and two road segments are classified as V-2 and V-3 road.
- 4) The total road length are 18 km.
- 5) The project cost is about 117 million US\$ in 1996 price.

NECESSITY OF PROJECT

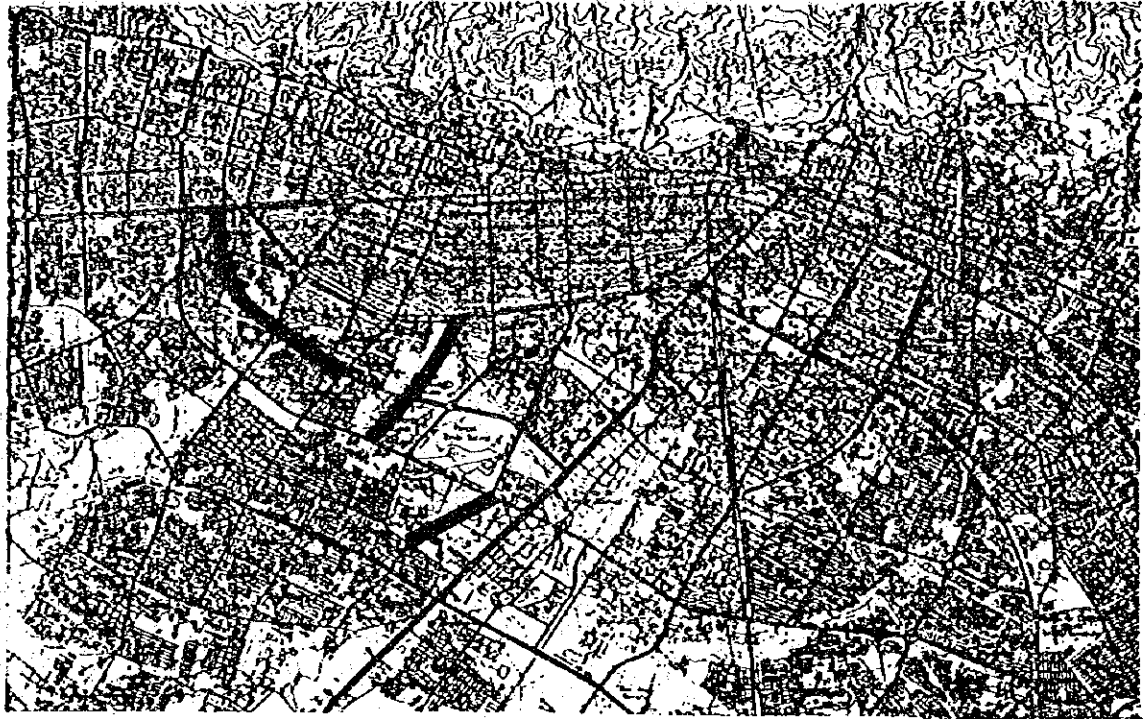
- 1) For stimulation of development activities in Suba Norte area and Cota.
- 2) For maintaining of future traffic demand.

PROJECT NAME	SUBA AREA ROAD CONSTRUCTION PROJECT (RP-112)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction.</li> <li>2) The project consists of 6 road segments.</li> <li>3) Ave. La Sirena is classified as V-2 road and others are V-3 road.</li> <li>4) Total road length are about 29 km.</li> <li>5) Total project costs are about 182 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For stimulation of development activities in Suba area and Cota areas.</li> <li>2) For maintaining of future traffic demand.</li> </ol>	

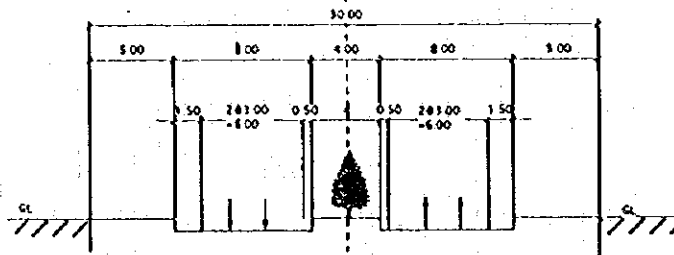
PROJECT NAME

BARRIOS UNIDOS AREA ROAD CONSTRUCTION PROJECT (RP-113)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is new road construction.
- 2) The project consists of 3 road segments.
- 3) These 3 roads are classified as V-3 road with 6-lane dual carriageway.
- 4) Total roads length are about 7 km.
- 5) The project cost is about 122 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For mitigation of traffic congestion in Barrios Unidos Area.
- 2) For connection of un-linked road network.

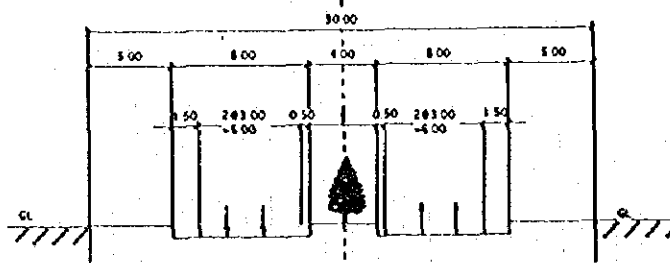
PROJECT NAME

ENGATIVA AREA ROAD CONSTRUCTION PROJECT (RP-114)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is new road construction.
- 2) The project consists of Ave, El Cortijo, Ave. Bolibia, and Ave. morisca.
- 3) Ave. El Cortijo is classified as V-2 road and others are V-3 road.
- 4) The total road length are about 14 km with one grade separated intersection.
- 5) The project cost is about .88; million US\$ in 1996 price.

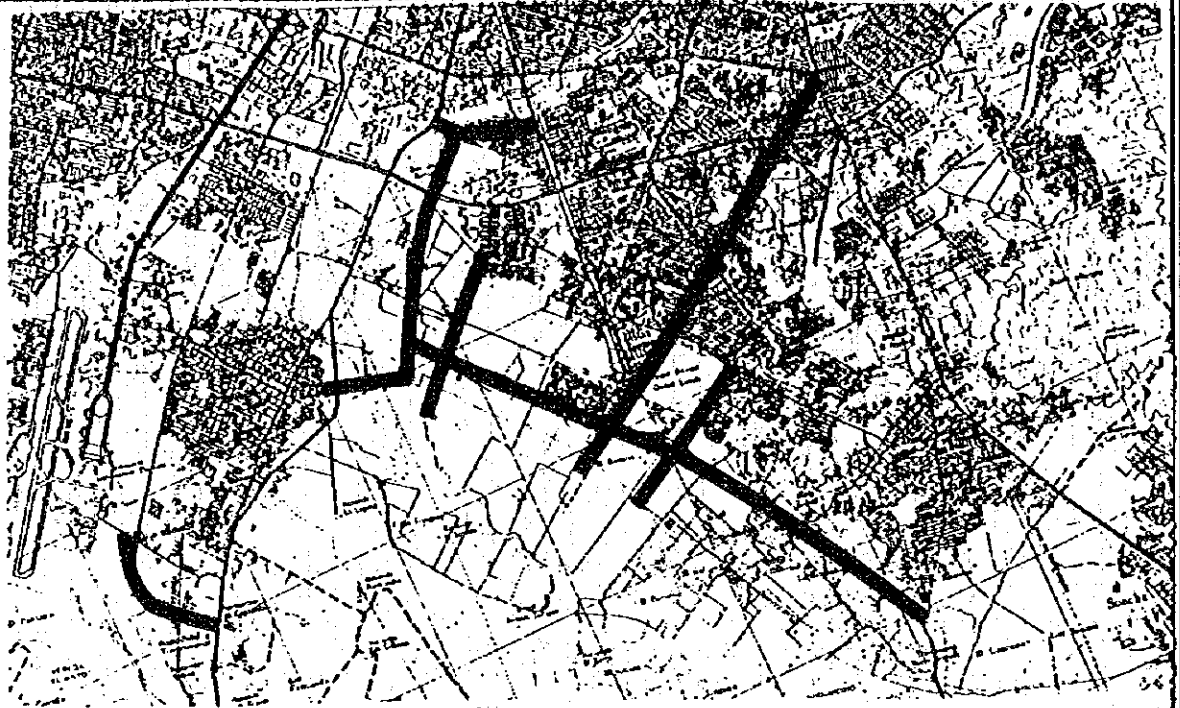
NECESSITY OF PROJECT

- 1) For stimulation of development activities in Engativa Area.

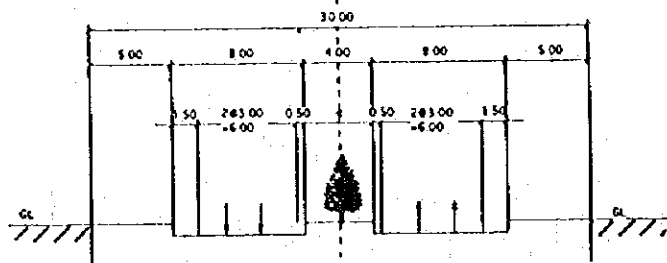
PROJECT NAME

KENNEDY AREA ROAD CONSTRUCTION PROJECT (RP-115)

PROJECT LOCATION MAP



CROSS SECTION



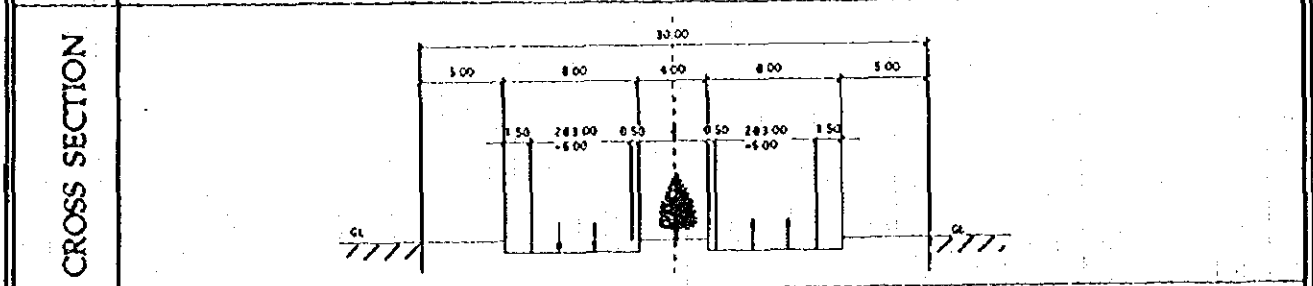
PROJECT OUTLINE

- 1) The project is new road construction.
- 2) The project consists of various road segments in Kennedy area.
- 3) These roads are classified as V-3 Road with 4-lane dual carriageway.
- 4) Total road length are about 24 km with 3 grade separated intersections.
- 5) The project cost is about 174 million US\$ in 1996 price.

NECESSITY OF PROJECT

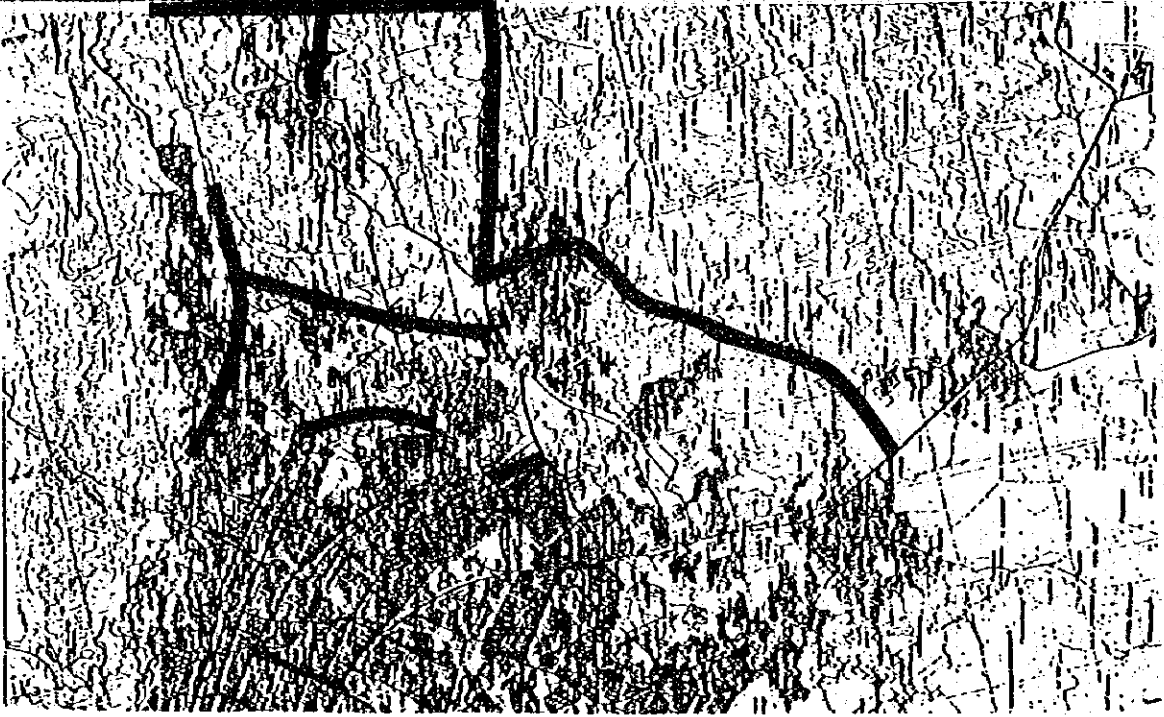
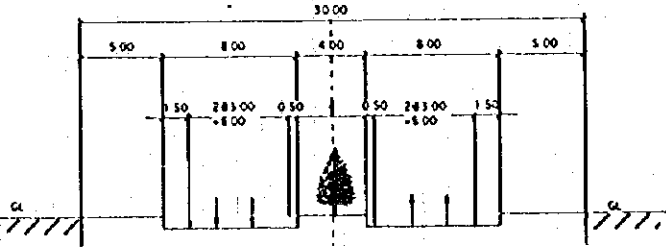
- 1) For stimulation of development activities in Kennedy area.
- 2) For maintaining of future traffic demand.

<b>PROJECT NAME</b>	<b>BOSA AREA ROAD CONSTRUCTION PROJECT</b>	<b>(RP-116)</b>
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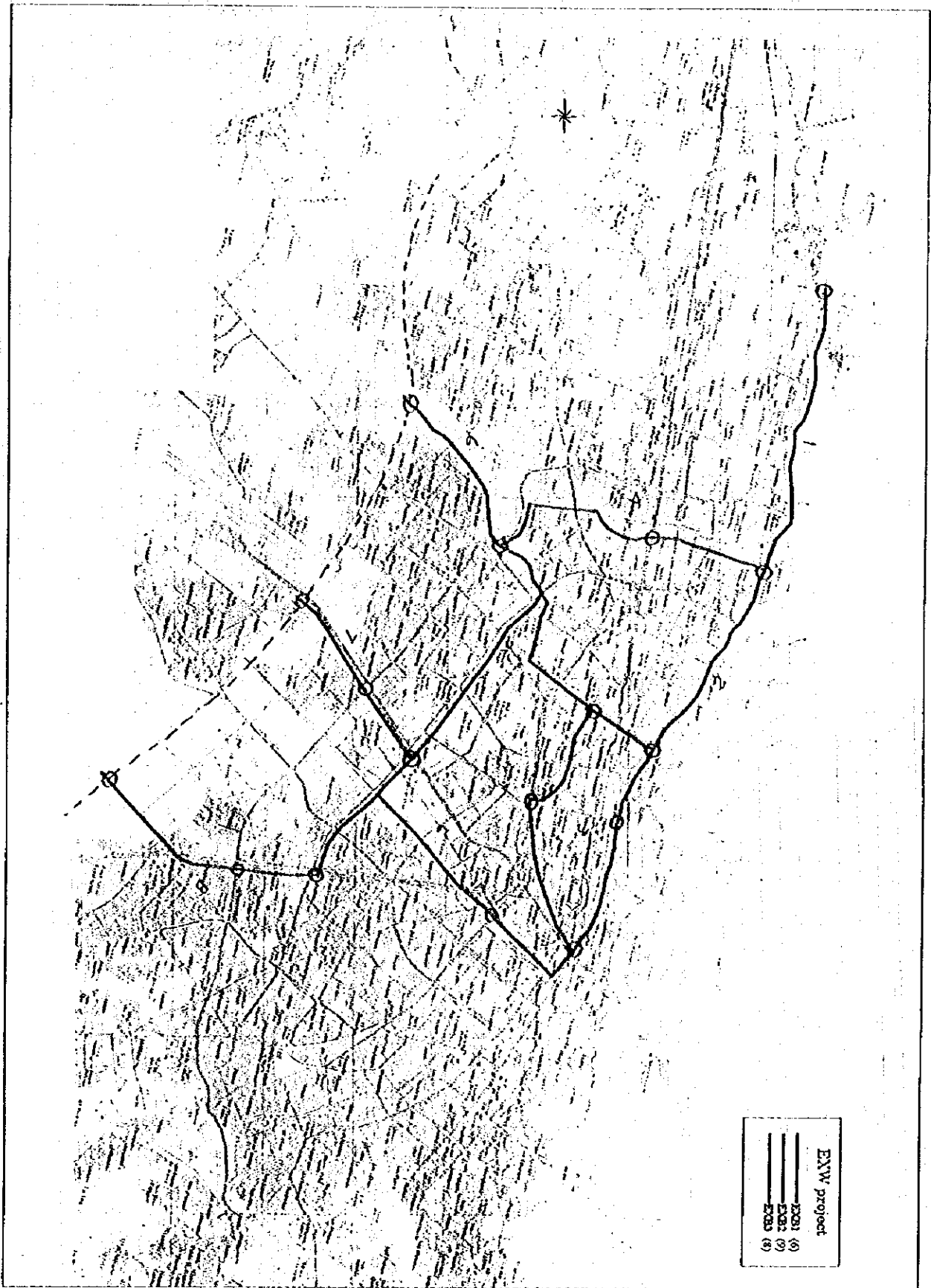


<b>PROJECT OUTLINE</b>	<ol style="list-style-type: none"> <li>1) The project is new road construction.</li> <li>2) The project consists of Ave. Terreros and 2 road segments in Bosa area.</li> <li>3) Ave. Terreros is classified as V-2 road and others are V-3 road.</li> <li>4) The total road length are about 15 km.</li> <li>5) The project cost is about 75 million US\$ in 1996 price.</li> </ol>
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<b>NECESSITY OF PROJECT</b>	<ol style="list-style-type: none"> <li>1) For stimulation of development activities in Bosa area.</li> </ol>
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PROJECT NAME	USME AREA ROAD CONSTRUCTION PROJECT (RP-117)	
PROJECT LOCATION MAP		
CROSS SECTION		
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is new road construction in Usme area.</li> <li>2) The project consists of Ave. Villavicencio, and 7 road segments.</li> <li>3) Ave. Villalicencio is classified as V-2 and others are V-3 road.</li> <li>4) Total road length are 60 km.</li> <li>5) Total project cost is about 269 million US\$ in 1996 price.</li> </ol>	
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For stimulation of development activities in Usme area.</li> <li>2) For maintaining of future traffic demand.</li> </ol>	

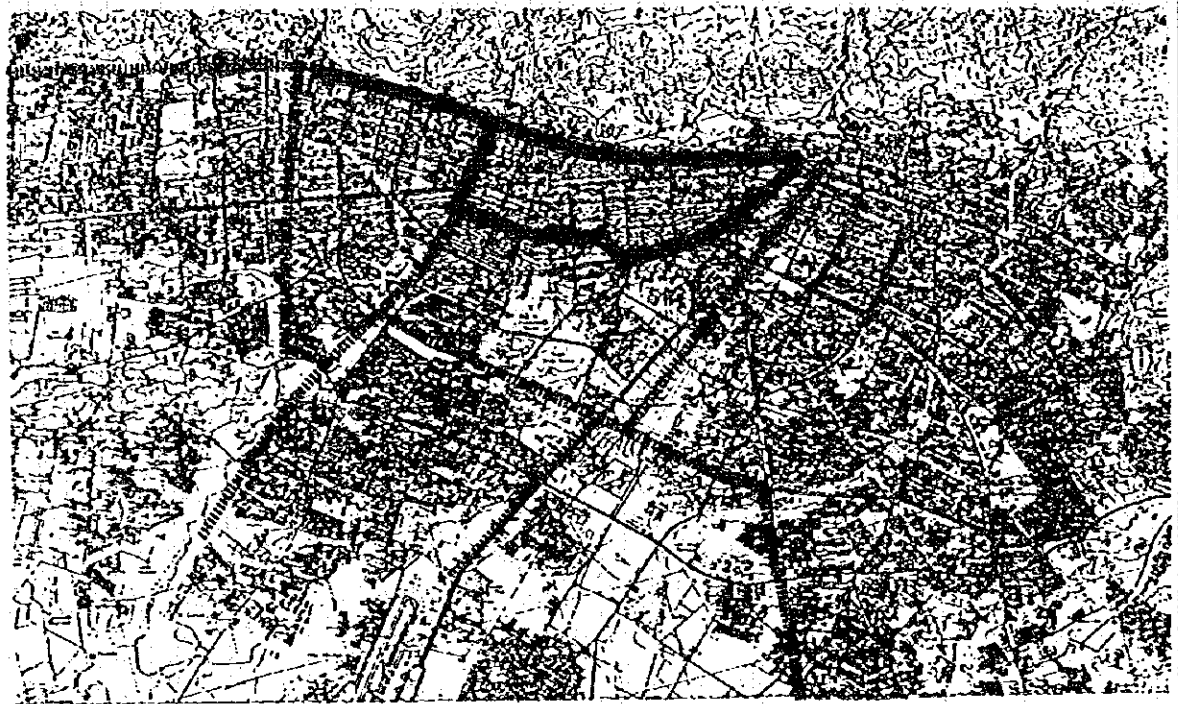




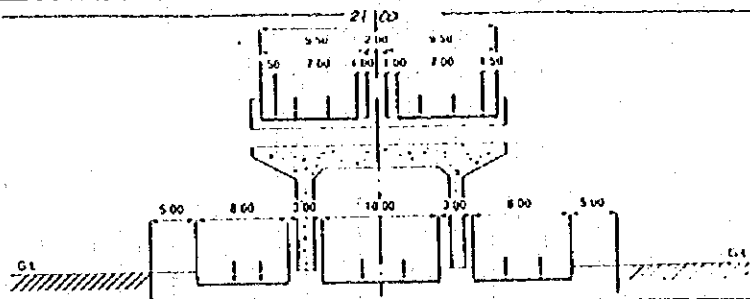
PROJECT NAME

1st RING URBAN EXPRESS WAY CONSTRUCTION PROJECT (HP-1)

PROJECT LOCATION MAP



CROSS SECTION



PROJECT OUTLINE

- 1) The project is construction of Urban Expressway.
- 2) This road is viaduct type with 4-lane dual carriageway.
- 3) This road is constructed on Ave. 7a, Calle 72, Carrera24, Ave. Quito, and Calle 28.
- 4) Total road length is about 17 km with 6 on-off ramps.
- 5) The project cost is about 511 million US\$ in 1996 price.

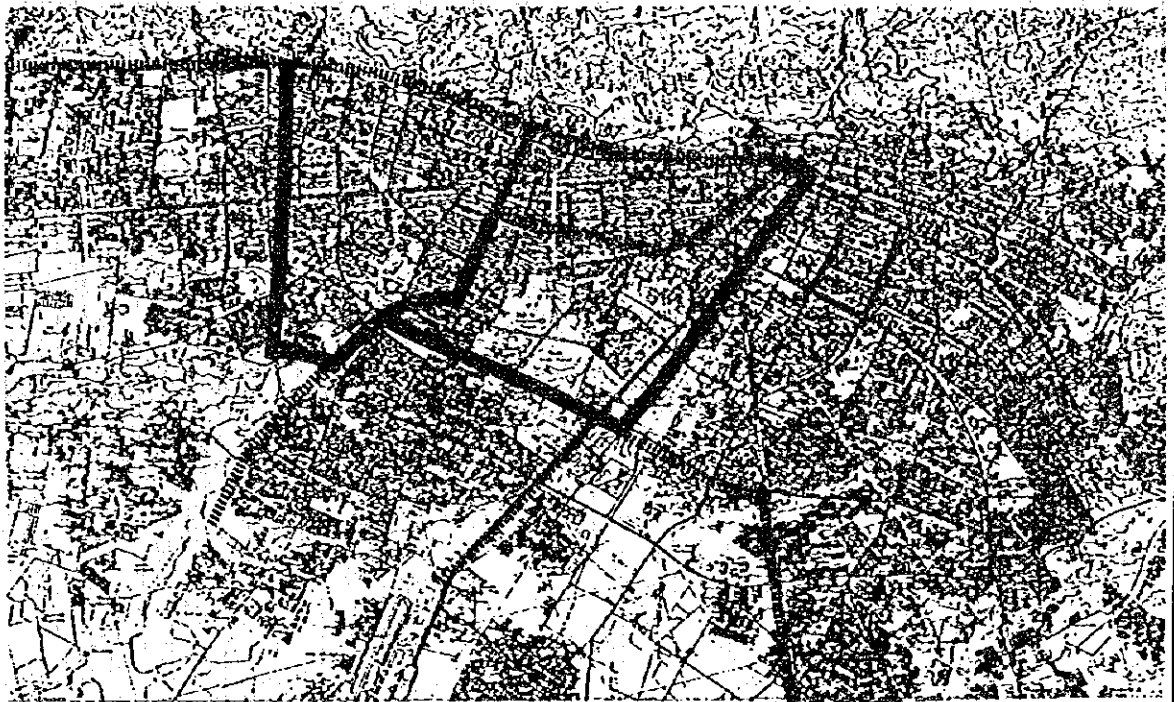
NECESSITY OF PROJECT

- 1) For mitigation of traffic congestion in central area.
- 2) For maintaining of future traffic demand.

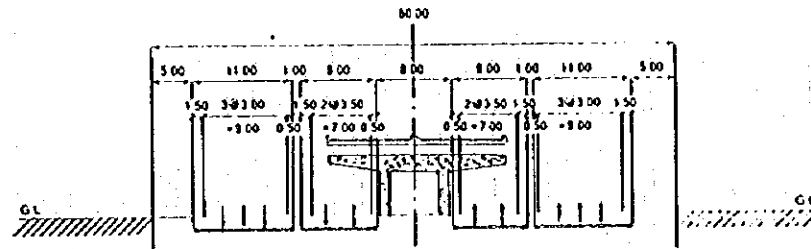
PROJECT NAME

2nd RING URBAN EXPRESS WAY CONSTRUCTION PROJECT (HP-2)

PROJECT LOCATION MAP



CROSS SECTION


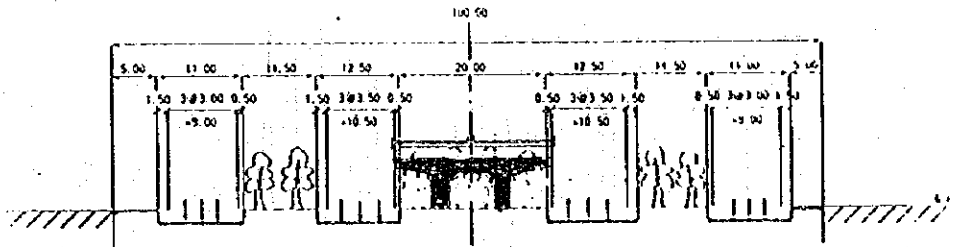


PROJECT OUTLINE

- 1) The project is construction of Urban Expressway
- 2) This road is viaduct with 4-lane dual carriageway.
- 3) Road is constructed on Rio Juan Amarillo, Ave. Congreso(calle68), and existing railway route.
- 4) Total Urban Expressway length is about 24 km with 3 on-off ramps
- 5) The project cost is about 667 million US\$ in 1996 price.

NECESSITY OF PROJECT

- 1) For mitigation of traffic congestion in Bogota City.
- 2) For marinating of future traffic demand.

PROJECT NAME	RADIAL URBAN EXPRESS WAY CONSTRUCTION PROJECT (IIP-3)
PROJECT LOCATION MAP	
CROSS SECTION	
PROJECT OUTLINE	<ol style="list-style-type: none"> <li>1) The project is construction of Urban Expressway.</li> <li>2) The roads are viaduct type with 4-lane dual carriageway.</li> <li>3) Routs are passed on Ave. 7a , Rio Juan Amarillo, Autopista El Dorado, and Americas.</li> <li>4) Total urban Expressway length is about 23 km with 9 on-off ramps.</li> <li>5) The project cost is about 671 million US\$ in 1996 price.</li> </ol>
NECESSITY OF PROJECT	<ol style="list-style-type: none"> <li>1) For mitigation of traffic congestion in Bogota City.</li> <li>2) For maintaining of future traffic demand.</li> </ol>







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