

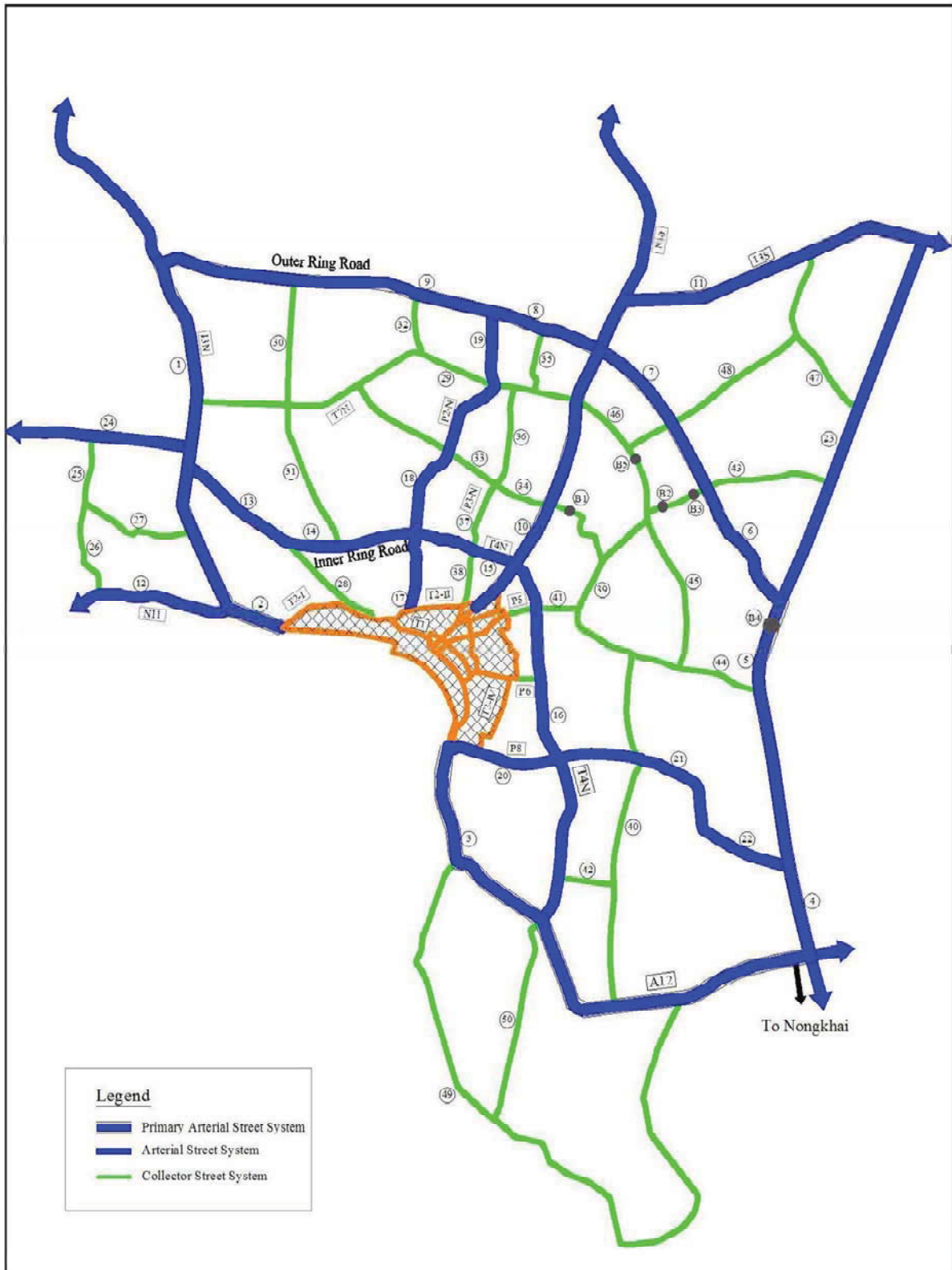
## APPENDIX 17

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### ROAD DEVELOPMENT PLAN

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Project Profile

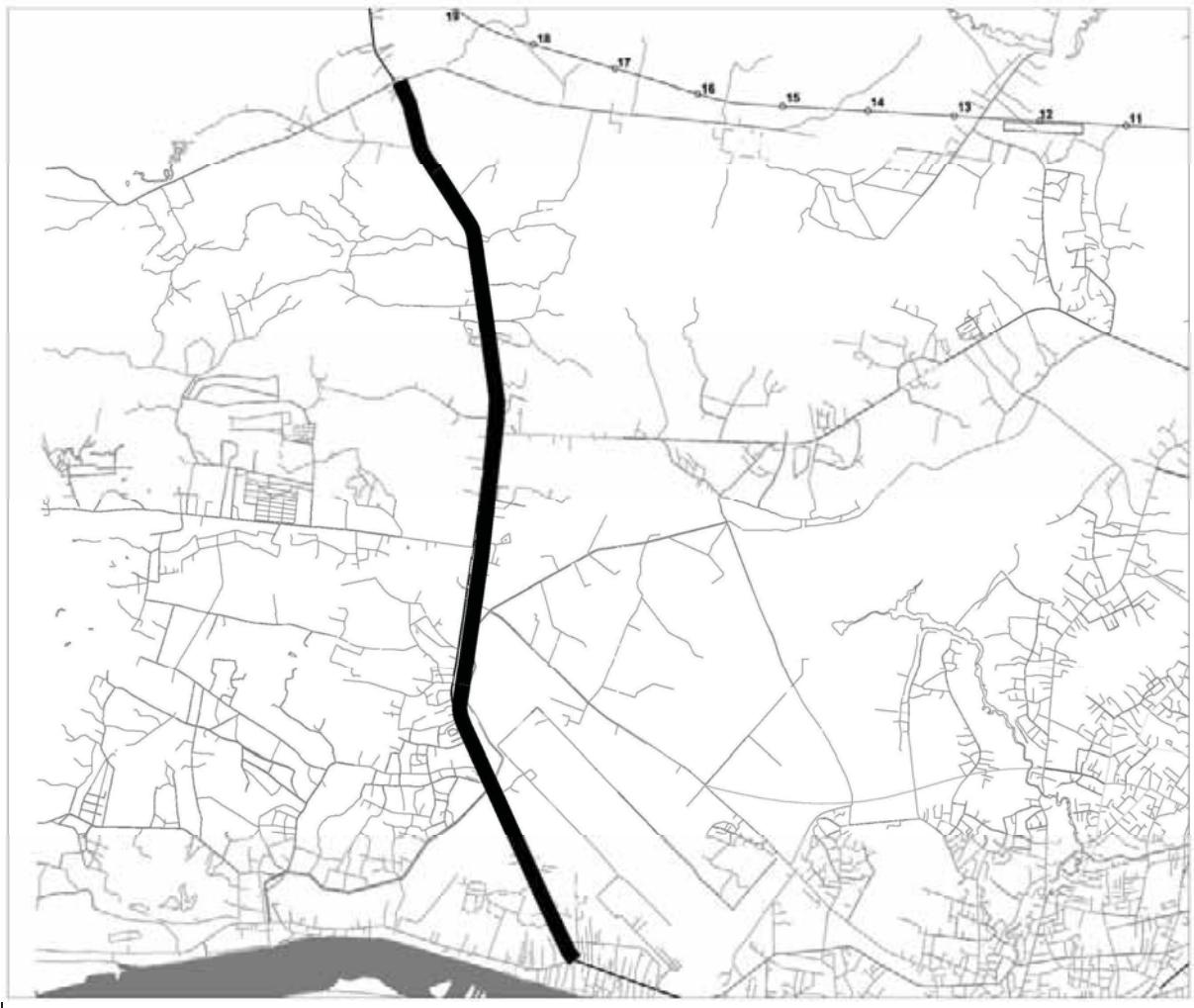


Project Number

### Project Profile

Project Number	1
Road Category	Primary Arterial Street
Road Section	Junction Sikhay – 13North Km 16
Length	10.6 kilometer
Objective	This road is national road 13 north. It will be western corridor of primary arterial system of Vientiane and the road connects western edge of city center, inner ring road, outer ring road and/or northern provinces.
Present Condition	DBST surface road has 11.0 meter in width and provide the space for 2 vehicle lanes and additional 2 narrow lanes with shoulder. Traveled way is not clear because visible road marking is rare.
Work Item	Widening, Overlay & Sidewalk
Project Cost	US\$ 11.92 million
Road Width	19.0 meter
Number of Lane	undivided 4 vehicle lanes
Desirable Right of Way	40 meter

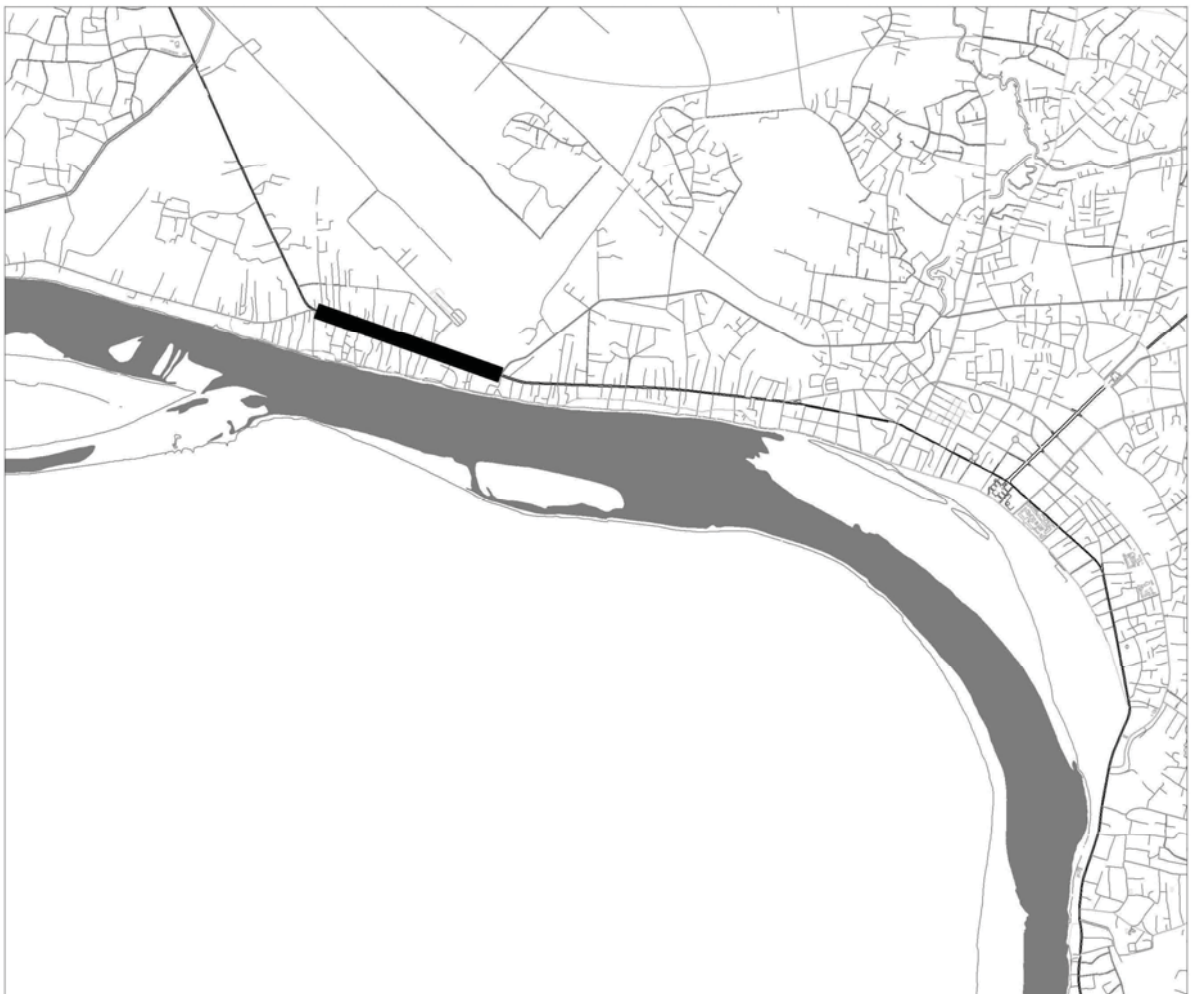
#### Location



### Project Profile

Project Number	2
Road Category	Primary Arterial Street
Road Section	Luang Phabang Rd.
Length	1.6 kilometer
Objective	This road is a part of national road 13 north. It will be southern corridor of primary arterial system of Vientiane and road connects western corridor and city center.
Present Condition	This road was recently improved with AC pavement. The road has 19.5 meter in width and provides divided 4 vehicle lanes and additional 2 narrow outer lanes with mounted sidewalk. Street light is also provided along whole stretch of the road.
Work Item	Overlay & Land acquisition
Project Cost	US\$ 1.02 million
Road Width	27.5 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

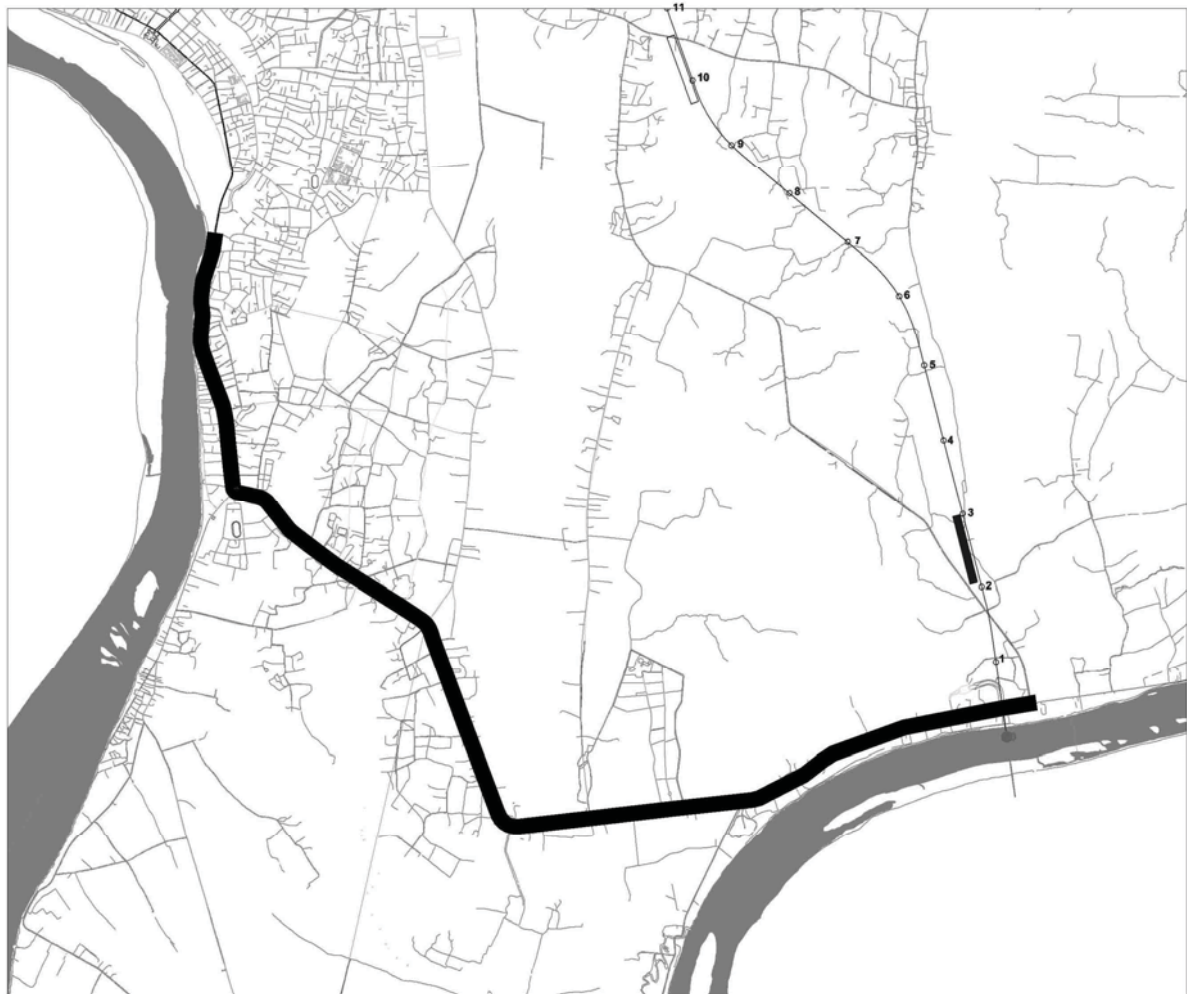
#### Location



### Project Profile

Project Number	3
Road Category	Primary Arterial Street
Road Section	Thadeua Rd.
Length	16.4 kilometer
Objective	This road is consisted of national road 13 north and A12. It will be the southern corridor of Vientiane passing through city center for east – west direction. The road connects western corridor, city center and friendship bridge.
Present Condition	This road was recently improved with AC pavement. The road has 14.5 meter in width and provides divided 4 vehicle lanes with mounted sidewalk. Street light is also provided along whole stretch of the road.
Work Item	Widening, Overlay, Sidewalk & Land acquisition
Project Cost	US\$ 9.55 million
Road Width	27.5 meter / 19.0 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes / undivided 4 vehicle lanes
Desirable Right of Way	40 meter

### Location



Project Profile

Project Number	4
Road Category	Primary Arterial Street
Road Section	Friendship Bridge – Ban Nakhouay
Length	7.9 kilometer
Objective	This section is missing link of present road network. It will be a part of outer ring road. To strengthen the international corridor the road connects friendship bridge, Thanaleng railway station and national road 13 south.
Present Condition	There is irrigation canal along the similar location with proposed road. The top of its embankment is utilized by local traffic but its narrow space is not enough to drive by vehicle.
Work Item	New construction
Project Cost	US\$ 6.45 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

Location



### Project Profile

Project Number	5
Road Category	Primary Arterial Street
Road Section	Ban Nakhousy – Ban Dong Kand
Length	2.7 kilometer
Objective	This section will be a part of outer ring road. Accompany with project number 4, it will have the function carrying international traffic between the Friendship Bridge, national road 10, 13 north and 13 north.
Present Condition	The road crosses the meadow and stream of Hong Beng with 1 bridge. This causeway is not paved but that gravel surface is well maintained. During the flood, a part of road section may be submerged.
Work Item	Widening & Pavement Construction
Project Cost	US\$ 3.31 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

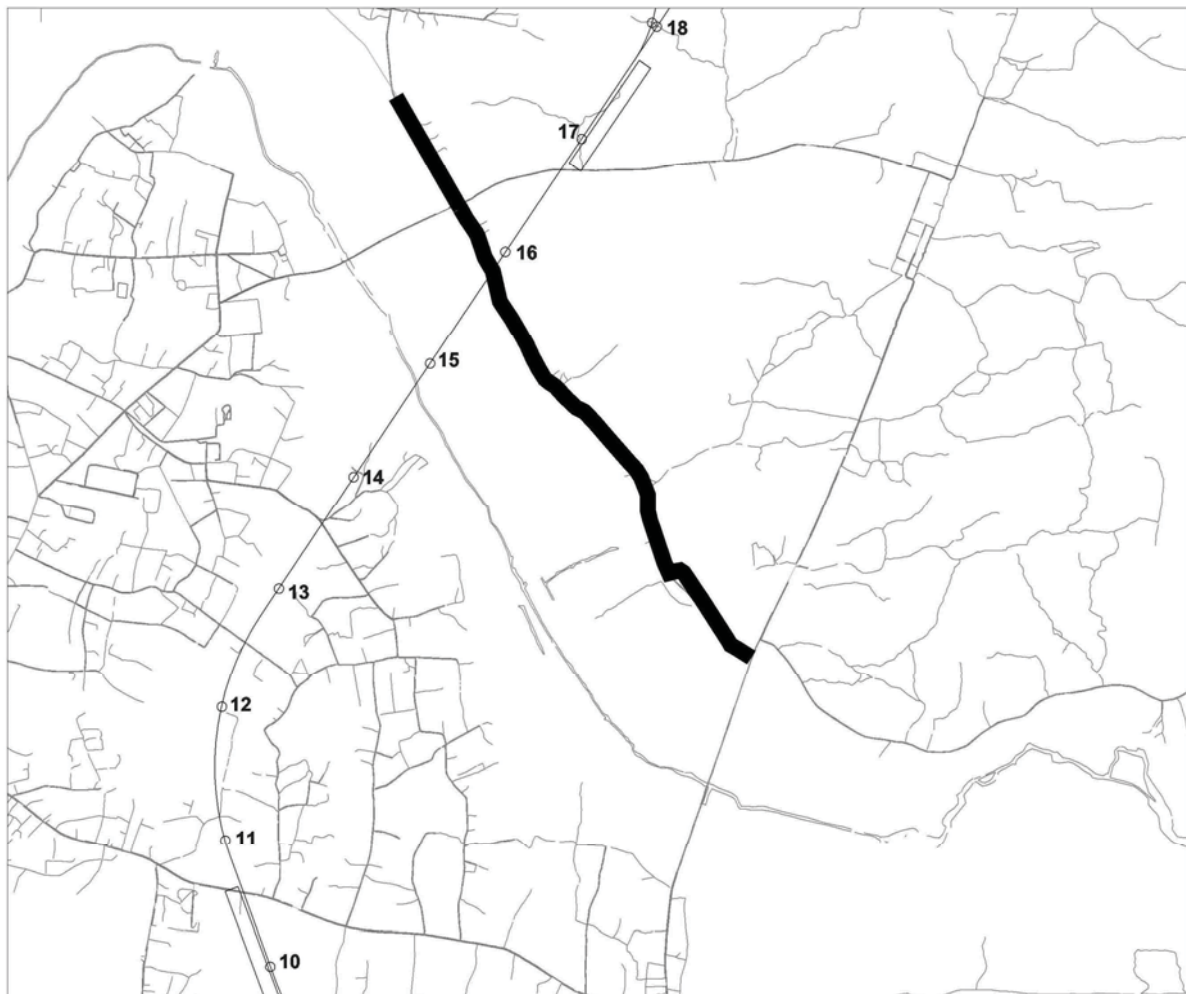
#### Location



### Project Profile

Project Number	6
Road Category	Primary Arterial Street
Road Section	Ban Dong Kang – Ban Xok Noy
Length	4.1 kilometer
Objective	This road will be a part of outer ring road. Accompany with project number 7, it will connect the eastern edge of developing area of Vientiane and the busiest central corridor.
Present Condition	The road is utilized only by local traffic because of the uncompleted road network as arterial system. Unpaved gravel surface has many puddles and residences along the road occupy the narrow roadside space.
Work Item	Widening & Pavement Construction
Project Cost	US\$ 3.21 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

#### Location

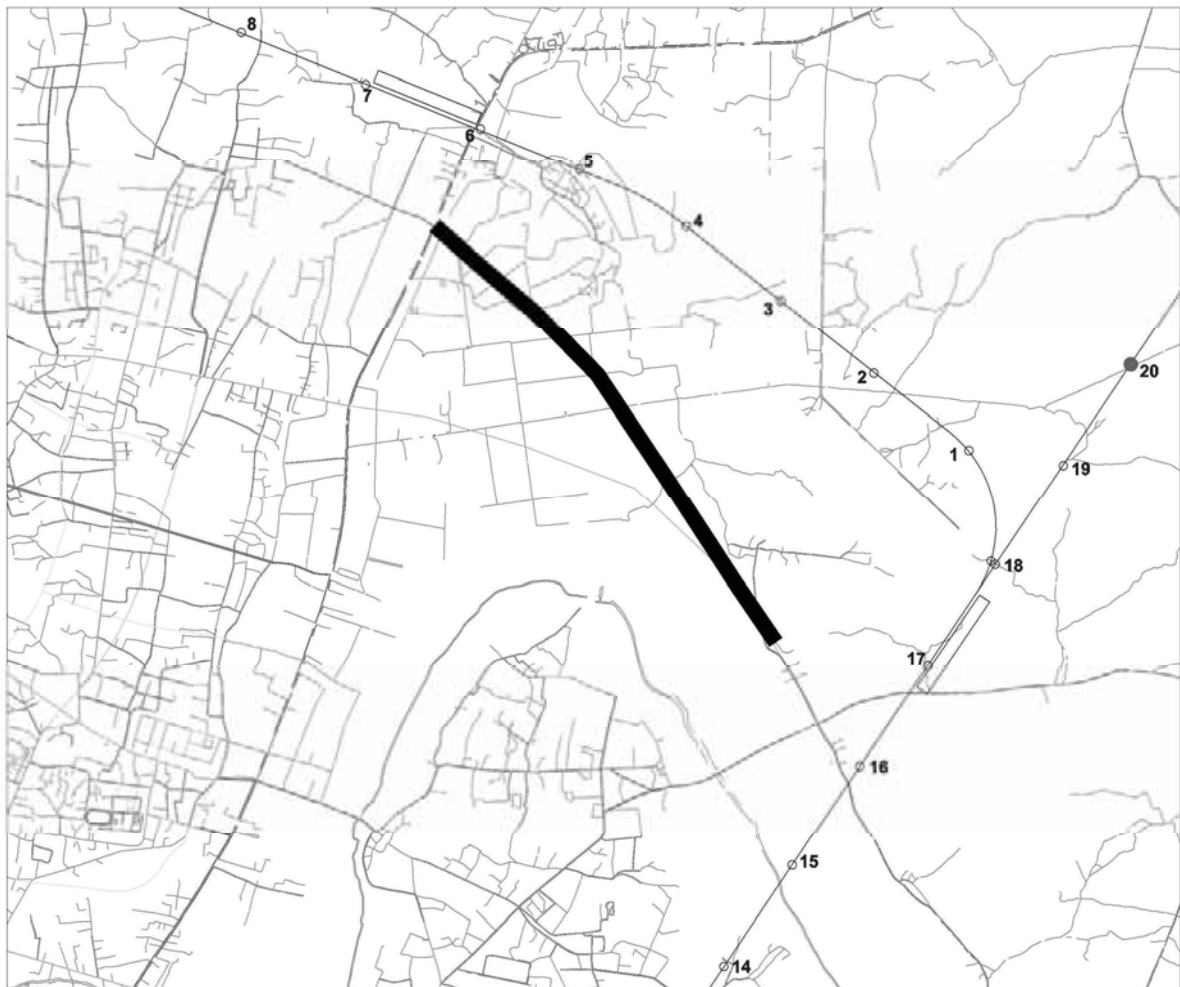




Project Profile

Project Number	7
Road Category	Primary Arterial Street
Road Section	Ban Xok Noy – 13 South Km 10
Length	5.1 kilometer
Objective	This road will be a part of outer ring road. Accompany with project number 6, it will connect the eastern edge of developing area of Vientiane and the busiest central corridor.
Present Condition	This portion is missing link of outer ring road for east – west direction. The road is going to pass through the meadow of Hong Beng where paddy field is spread. Exact road alignment shall be examined.
Work Item	New Construction
Project Cost	US\$ 4.17 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

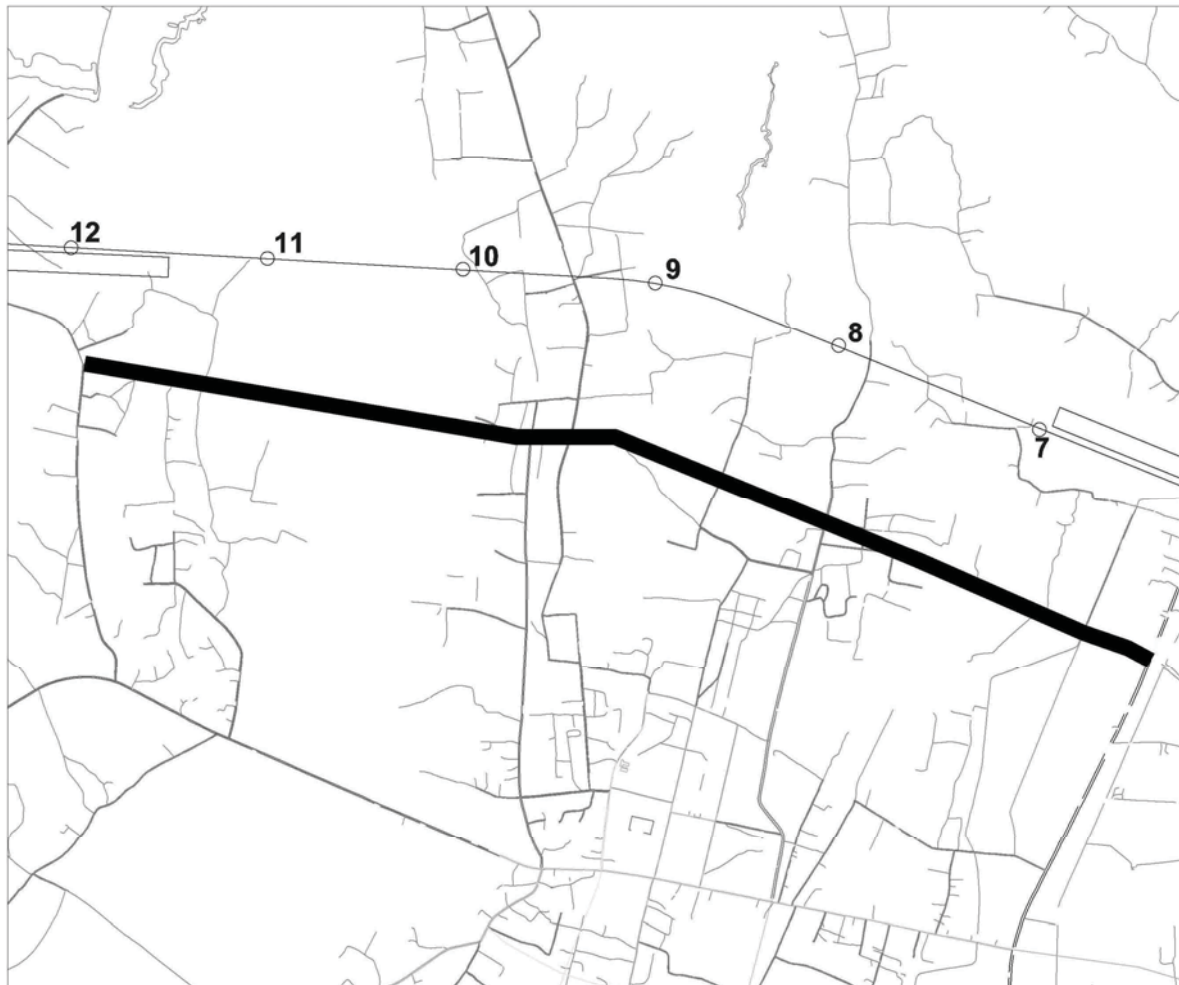
Location



Project Profile

Project Number	8
Road Category	Primary Arterial Street
Road Section	13 South km 10 – Ban Dongxiangdi
Length	6.6 kilometer
Objective	This road will be a part of outer ring road and northern corridor of arterial system. Accompany with project number 9, it will connect the national road 13 South, central corridor, and 13 North, western corridor.
Present Condition	This portion is missing link of outer ring road for east – west direction. The land use of this area is not developed yet and most of the area is covered by forest. Exact road alignment shall be examined.
Work Item	New Construction
Project Cost	US\$ 5.39 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

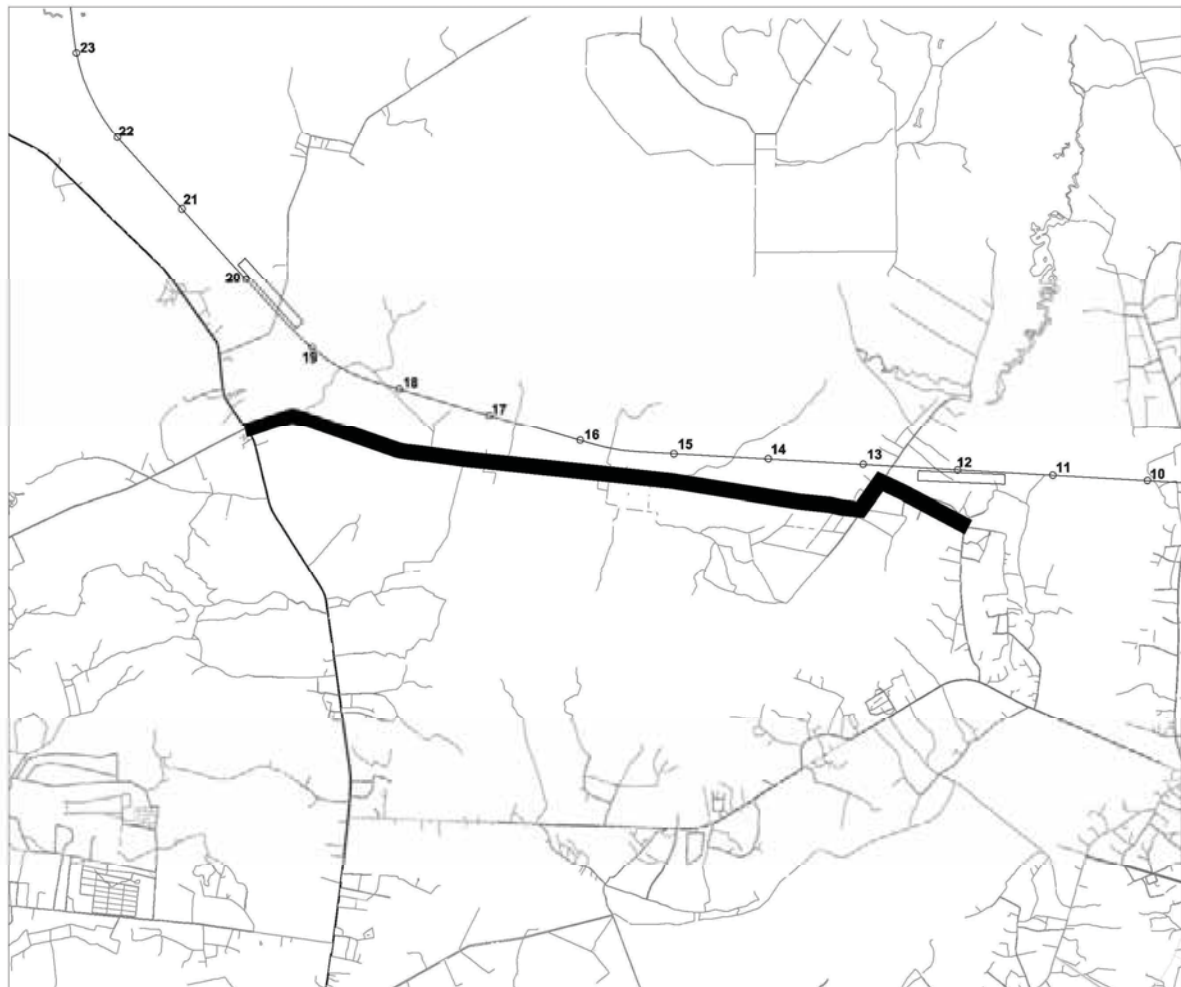
Location



Project Profile

Project Number	9
Road Category	Primary Arterial Street
Road Section	Ban Dongxiangdi – 13 North Km 16
Length	6.4 kilometer
Objective	This road will be a part of outer ring road and northern corridor of arterial system. Accompany with project number 8, it will connect the national road 13 South, central corridor, and 13 North, western corridor.
Present Condition	The unpaved existing surface is well maintained. The road is utilized only by local traffic because of uncompleted road network as arterial system. Roadside space is almost secured for stage construction method.
Work Item	Widening & Pavement Construction
Project Cost	US\$ 5.00 million
Road Width	14.5 meter
Number of Lane	undivided 2 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

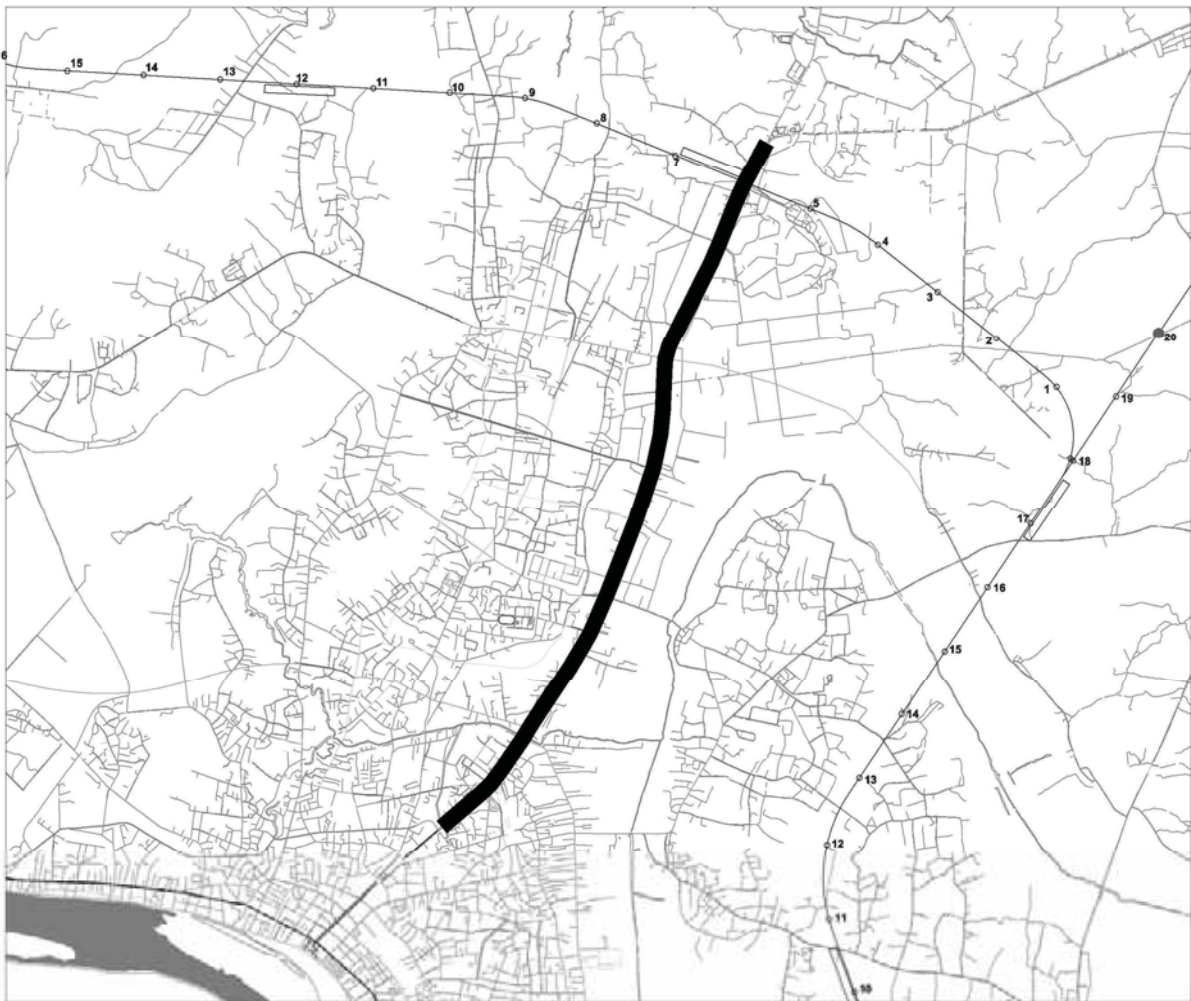
Location



### Project Profile

Project Number	10
Road Category	Primary Arterial Street
Road Section	Kaysonephomvihane Rd.
Length	10.0 kilometer
Objective	This road is national road 13 south. It will be the central corridor of primary arterial system of Vientiane and the road connect city center, inner ring road, outer ring road and southern provinces.
Present Condition	The road was improved with AC pavement recently. Mount up median is also constructed. The road provides divided 4 vehicle lane and narrow outer lane on both sides.
Work Item	Overlay & Land acquisition
Project Cost	US\$ 6.03 million
Road Width	27.5 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

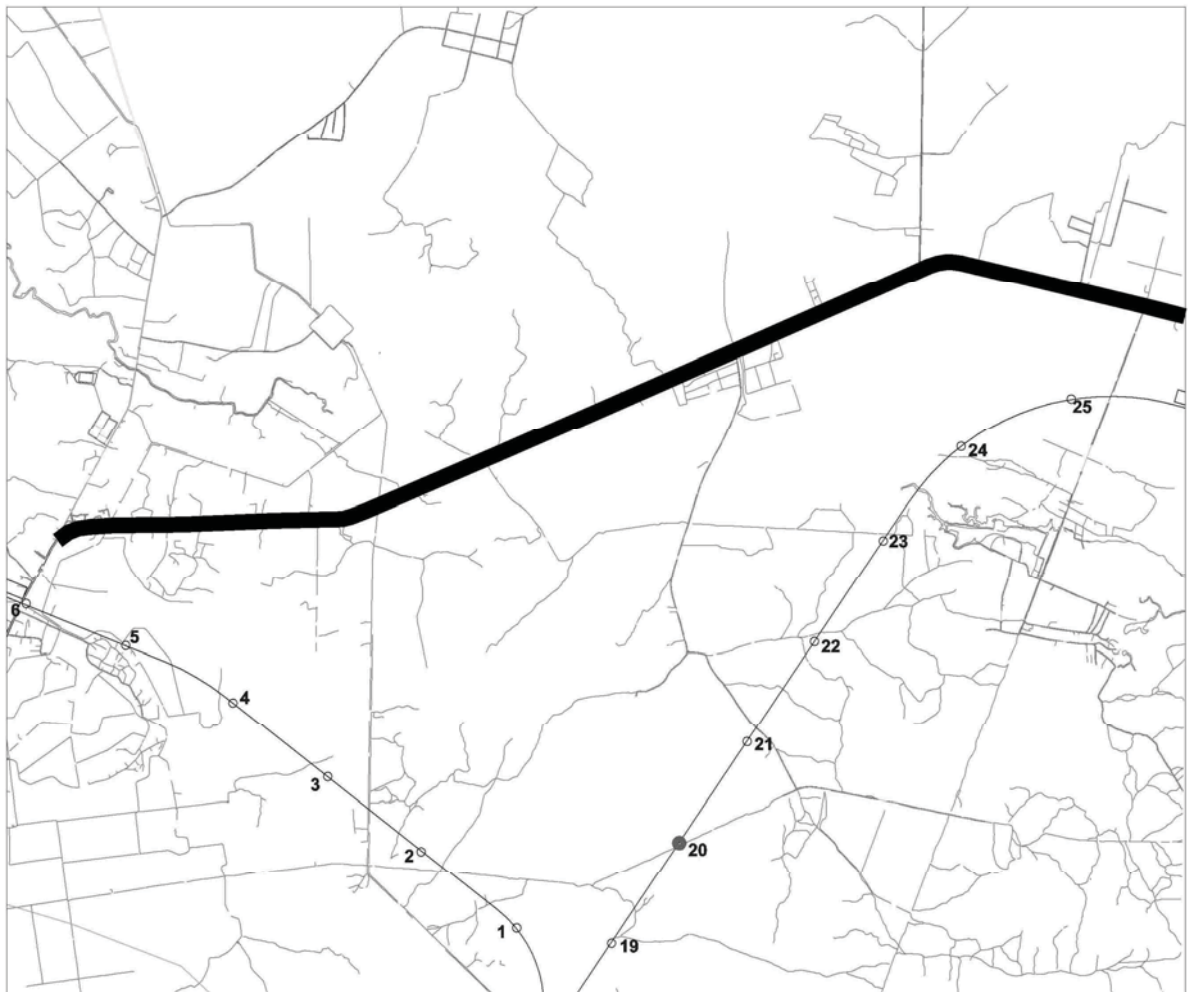
#### Location



### Project Profile

Project Number	11
Road Category	Primary Arterial Street
Road Section	Junction Don Noun – 13 South km 21
Length	9.0 kilometer
Objective	This road is the national road 13 South and extension of central corridor of primary arterial system of Vientiane. It will connect outer ring road and newly developing industrial zone.
Present Condition	DBST surface road has undivided 2 lanes with shoulder. There is a plan to improve the road for divided 4 lanes with AC pavement until year 2009. Roadside space is secured enough for widening.
Work Item	Widening, Overlay & Sidewalk
Project Cost	US\$ 15.41 million
Road Width	27.5 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes
Desirable Right of Way	40 meter

#### Location



### Project Profile

Project Number	12
Road Category	Arterial Street
Road Section	National Road 11
Length	5.0 kilometer
Objective	This road will be a main access to city center for western area of Vientiane and western provinces.
Present Condition	The road section of first few kilometer is DBST surface and further section is unpaved road with gravel surface. The road is provided the space for undivided 2 lanes but lane marking is not exist.
Work Item	Widening, Pavement Construction, Overlay & Sidewalk
Project Cost	US\$ 6.20 million
Road Width	19.0 meter
Number of Lane	undivided 4 vehicle lanes
Desirable Right of Way	30 meter

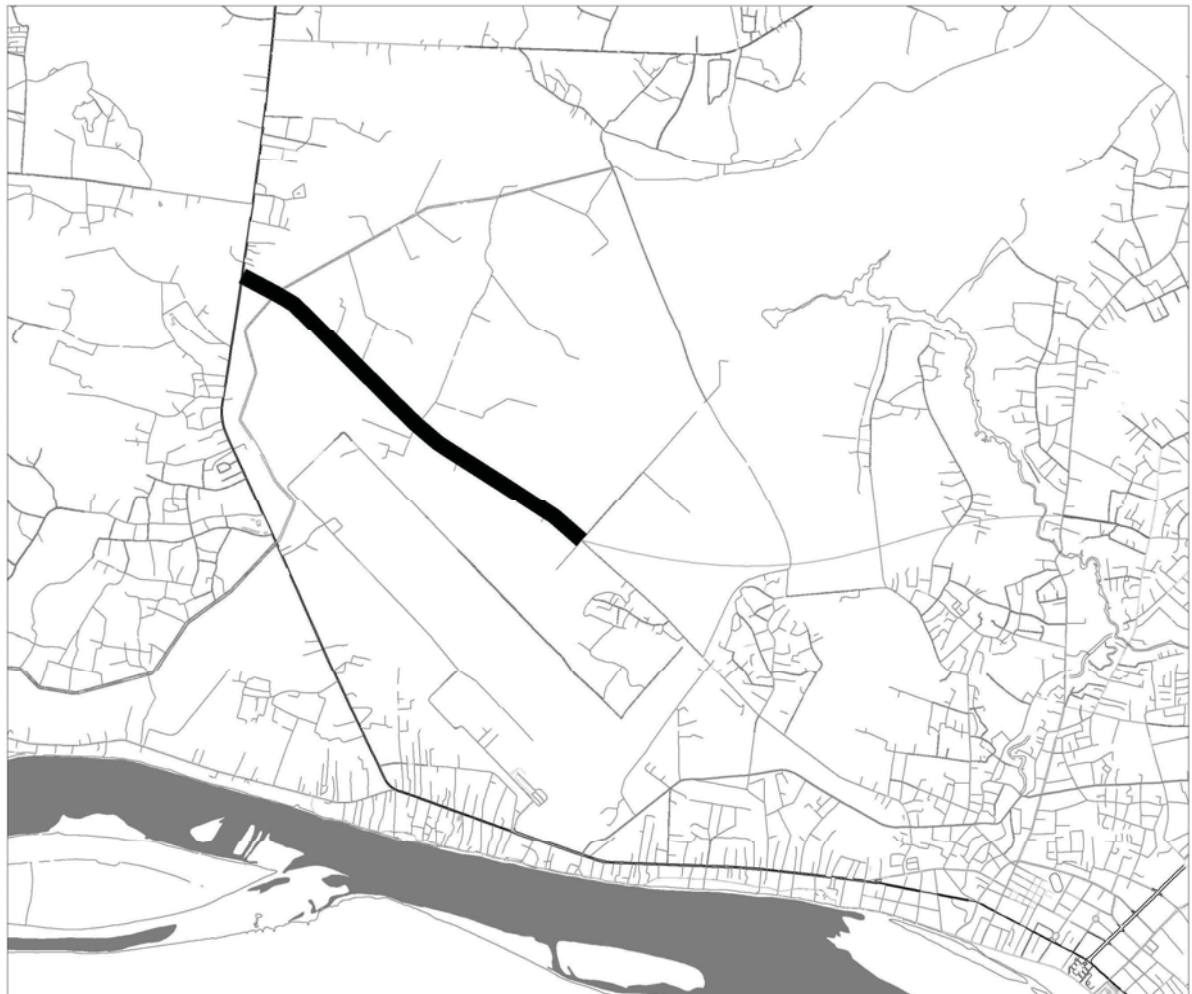
#### Location



Project Profile

Project Number	13
Road Category	Arterial Street
Road Section	Nong Duag Rd. (13 South – Inner ring Rd.)
Length	3.8 kilometer
Objective	This road will be a part of inner ring road. This circumferential road will distribute the congesting traffic on the main radial system to the other link. It will also avoid through traffic inside city center.
Present Condition	DBST surface road has undivided 2 vehicle lanes and outer narrow space with the sidewalk. This road is utilized for the short cut by the traffic from city center going to national road 13 north.
Work Item	Widening, Overlay & Sidewalk
Project Cost	US\$ 4.37 million
Road Width	19.0 meter
Number of Lane	undivided 4 vehicle lanes
Desirable Right of Way	30 meter

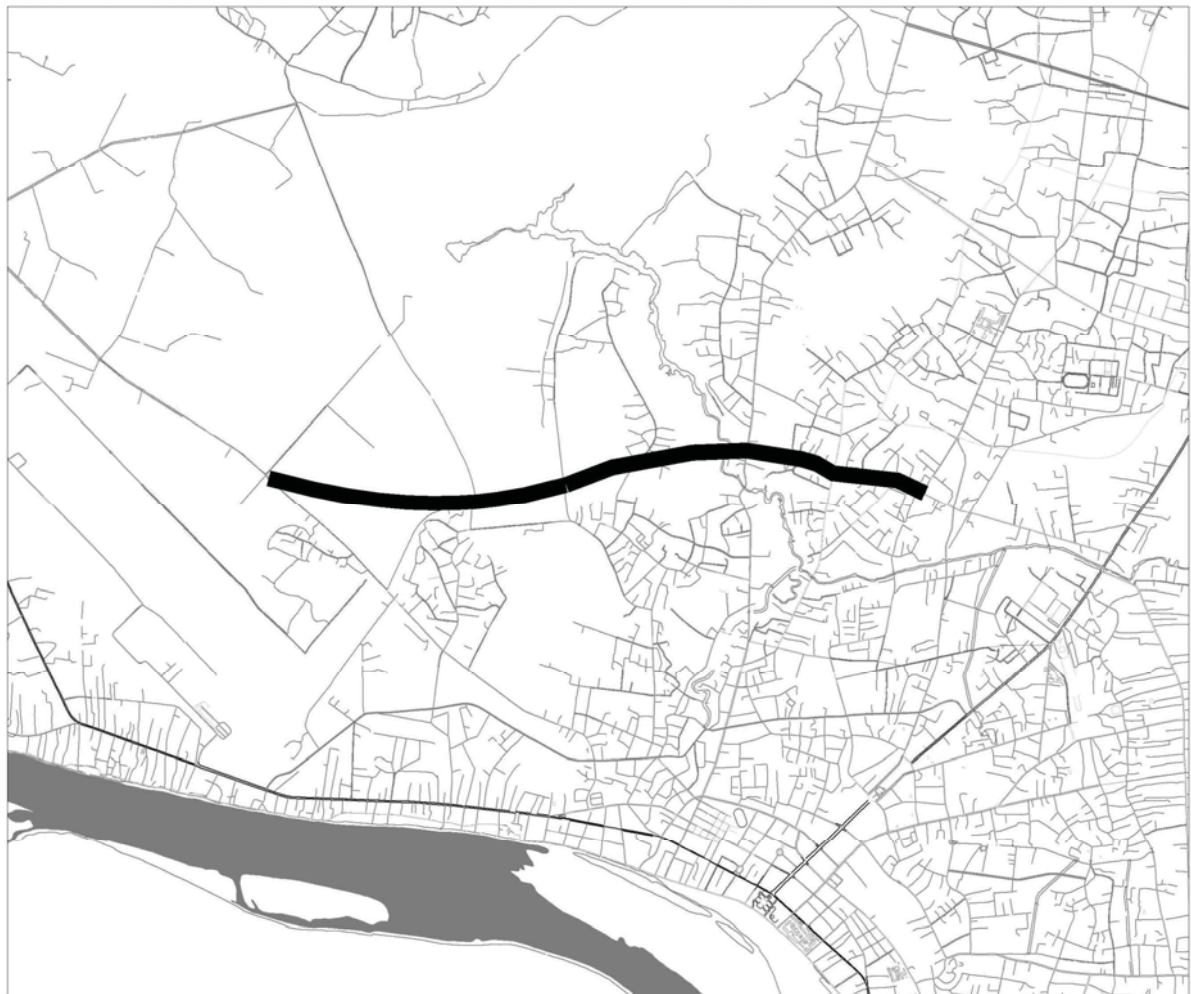
Location



Project Profile

Project Number	14
Road Category	Arterial Street
Road Section	Ban Pakthang – Ban Phontong
Length	4.2 kilometer
Objective	This road will be a part of inner ring road. It will connect existing Nong Duag Rd. and Phonphanou Rd. to avoid through traffic entering inside city center.
Present Condition	This portion is missing link of inner ring road for east – west direction. The road is going to pass through the meadow of Hong Xeng where paddy field is spread. Exact road alignment shall be examined.
Work Item	New Construction
Project Cost	US\$ 7.95 million
Road Width	27.5 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes
Desirable Right of Way	30 meter

Location





### Project Profile

Project Number	15
Road Category	Arterial Street
Road Section	Phonphanou Rd.
Length	1.8 kilometer
Objective	This road will be a part of inner ring road. From central corridor, it distribute traffic to other radial system and connect to the western corridor with project number 14.
Present Condition	DBST surface road provide undivided 2 lanes space. Roadside buildings are comparatively setback from road edge but it may be not enough for the proposed road width.
Work Item	Widening, Overlay & Sidewalk
Project Cost	US\$ 3.10 million
Road Width	27.5 meter
Number of Lane	divided 4 vehicle lanes and 2 bike lanes
Desirable Right of Way	30 meter

#### Location

