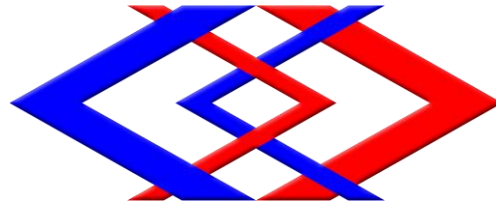




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Mass Rapid Transit Authority of Thailand, Ministry of Transport



MRT PURPLE LINE PROJECT BANG YAI TO BANG SUE SECTION

WELCOME OF KYOTO UNIVERSITY
ALUMNI

12 Feb 2011, Mandarin hotel



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SESSION 1: GENERAL INTRODUCTION





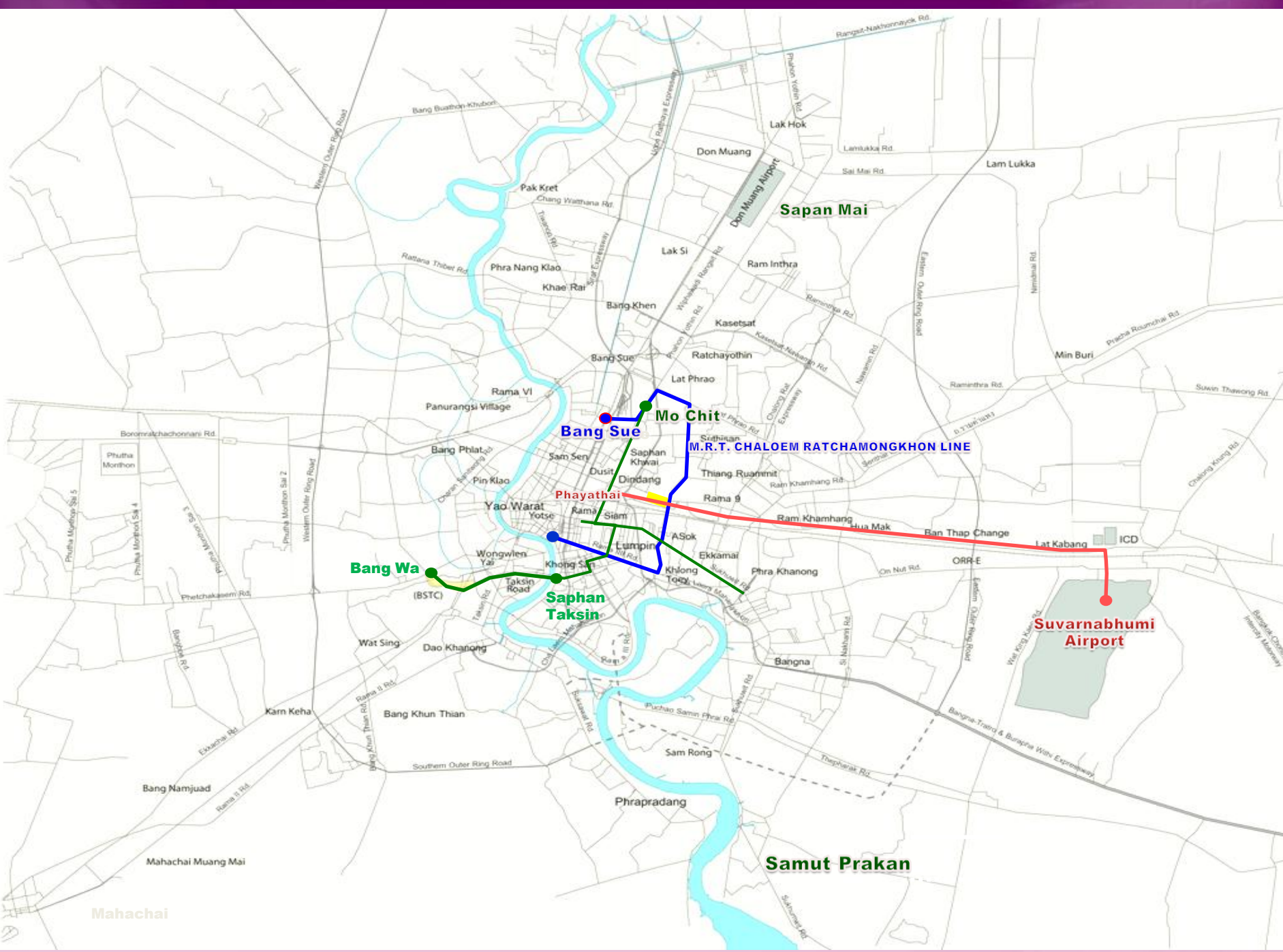
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1. EXISTING LINES

T. EXISTING LINES





Sapan Mai

Mo Chit

Bang Sue

M.R.T. CHALERM RATCHAMONGKHON LINE

Phayathai

Bang Wa

Saphan Taksin

Suvarnabhumi Airport

Samut Prakan

Mahachai



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2. PURPLE LINE



Purple Line
Bang Yai-Bang Sue 23 km.

Bang Yai

Bang Bamru

Taling Chan

Bang Wa

Rat Burana

Bang Sue

Mo Chit

Phayathai

Saphan Taksin

Bearing

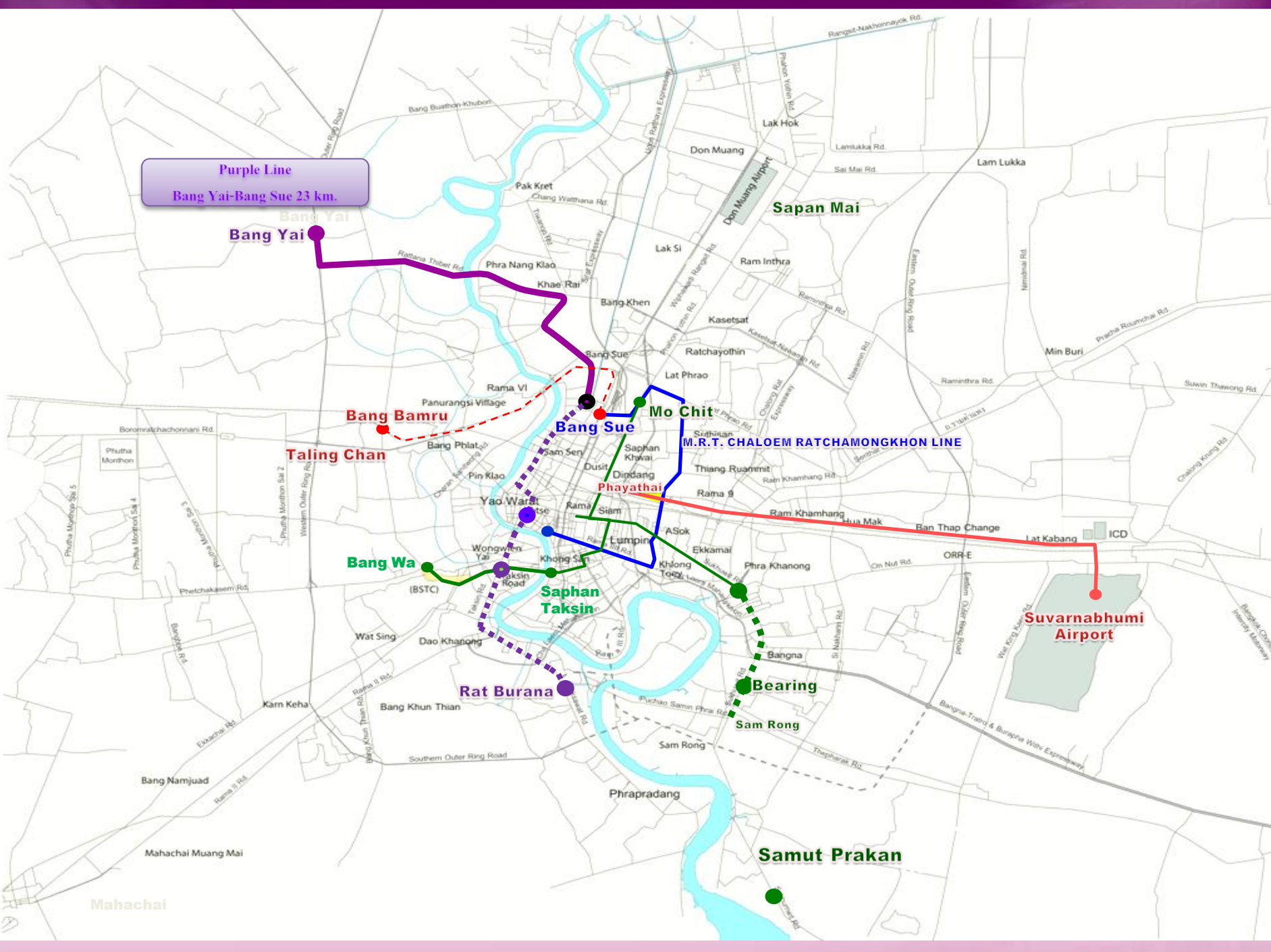
Sam Rong

Samut Prakan

Sapan Mai

Suvarnabhumi Airport

M.R.T. CHALOEM RATCHAMONGKHON LINE





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3. OVERALL PURPLE LINE



Overall Purple Line





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4. ORDINARY STATION





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Yaek Tiwanon Station





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5. TAO POON STATION





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6. PARK & RIDE BUILDING

PARK & RIDE BUILDING



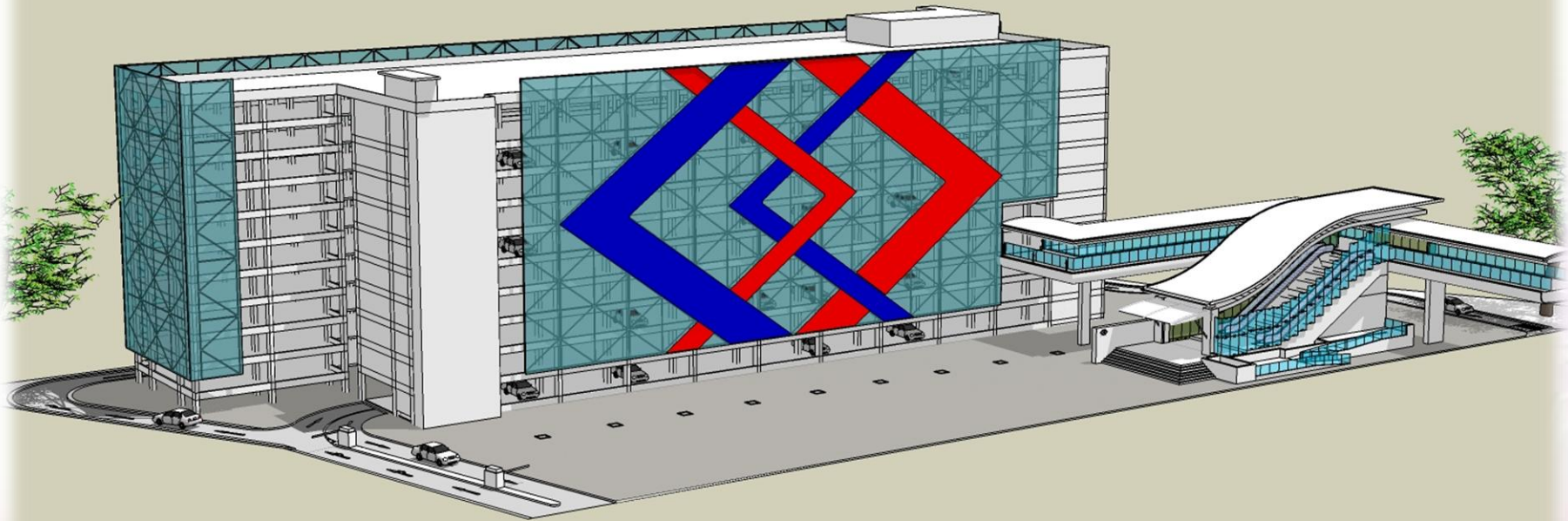


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THA IT P&R (10 floors)

Capacity 1,100 cars



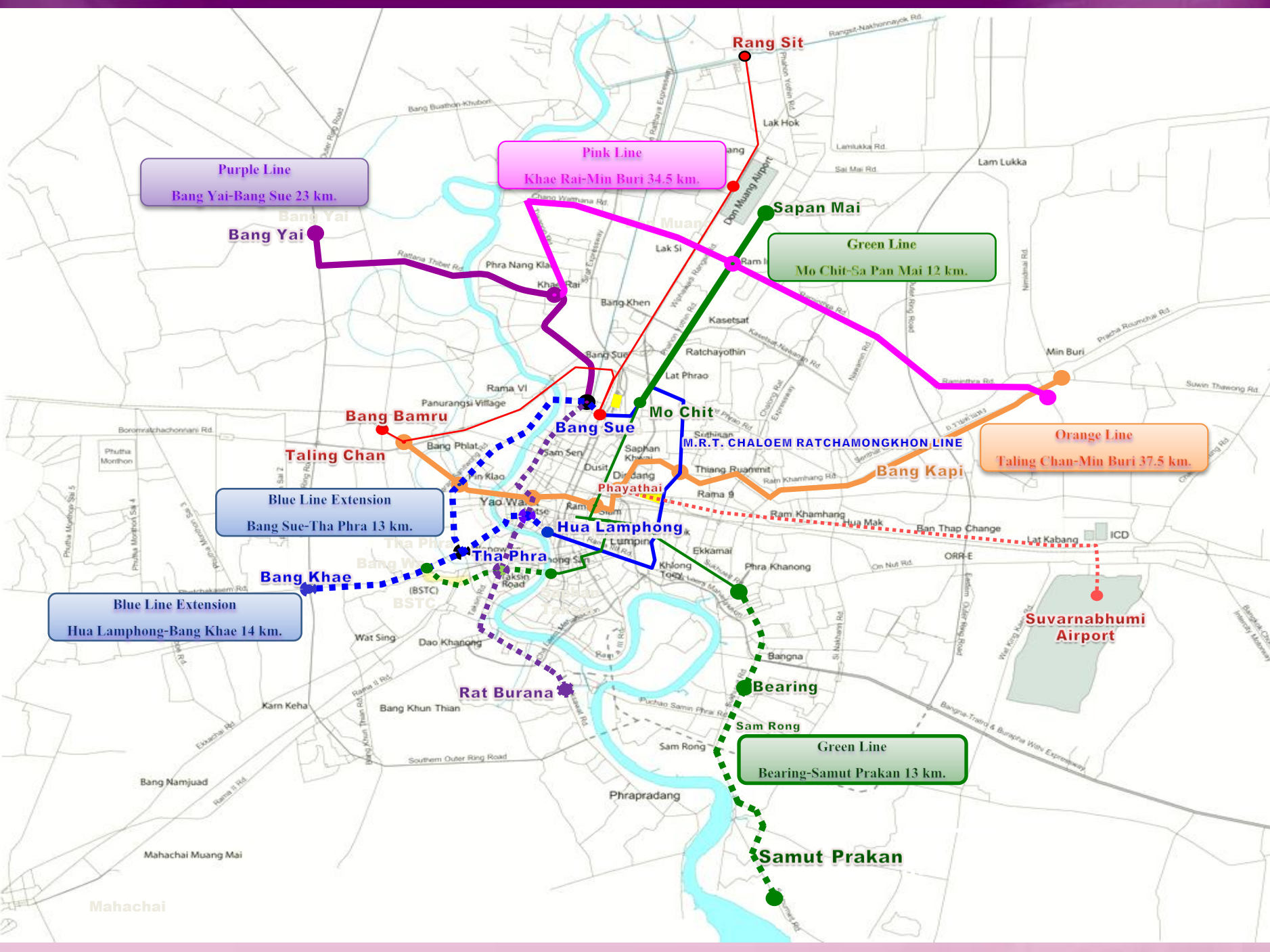


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7. FUTURE LINE





Purple Line
Bang Yai-Bang Sue 23 km.

Pink Line
Khae Rai-Min Buri 34.5 km.

Green Line
Mo Chit-Sa Pan Mai 12 km.

Orange Line
Taling Chan-Min Buri 37.5 km.

Blue Line Extension
Bang Sue-Tha Phra 13 km.

Blue Line Extension
Hua Lamphong-Bang Khae 14 km.

Green Line
Bearing-Samut Prakan 13 km.

M.R.T. CHALOEM RATCHAMONGKHON LINE

Suvarnabhumi Airport

Mahachai



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SESSION 2: VIADUCT





8. TYPICAL VIADUCT





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PERSPECTIVE VIEW



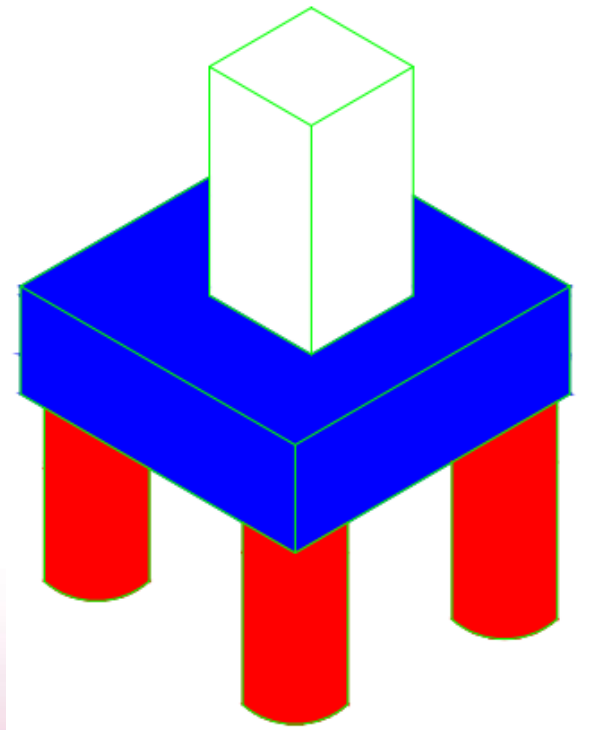


9. BARRETTE PILE (FOUNDATION)

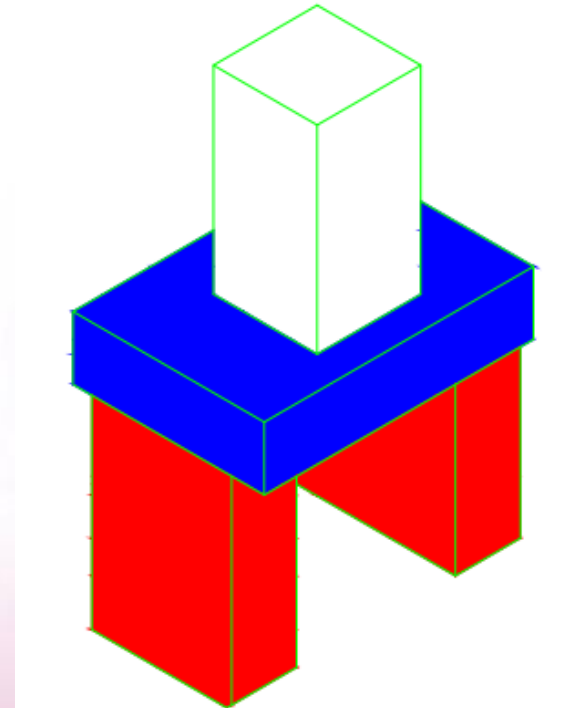


Change to Barrette Pile Foundation

**CONVENTIONAL BORED PILE
FOUNDATION
(4 Nos. 15m. BORED PILE)**

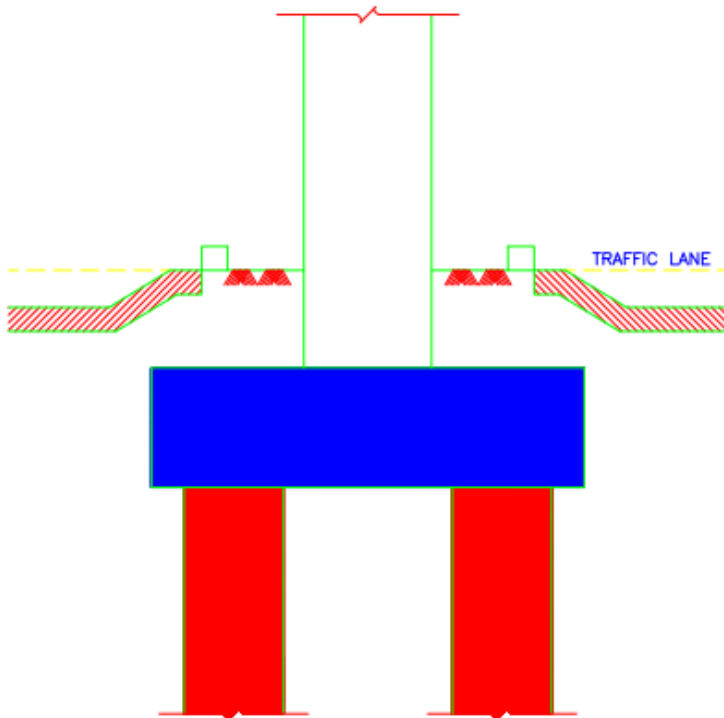


**BARRETTE PILE FOUNDATION
(2 Nos. 1.0x3.0m. BARRETTE PILE)**

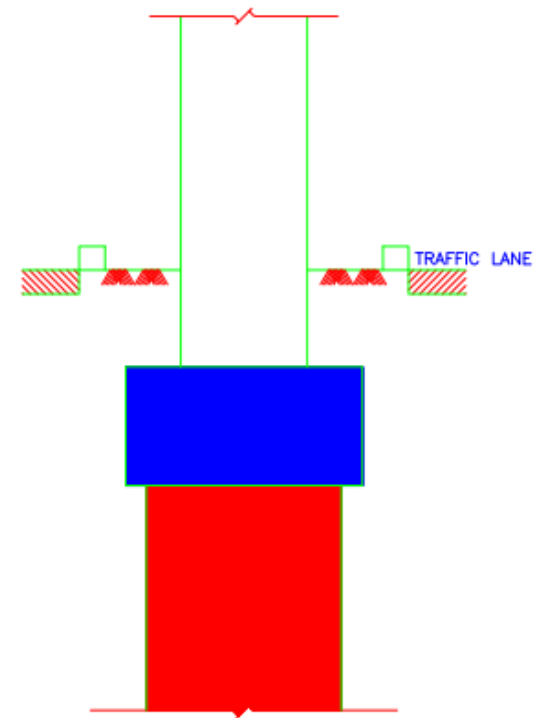


Advantage of Barrette Pile

**CONVENTIONAL BORED PILE
FOUNDATION
(4 Nos. 15m. BORED PILE)**



**BARRETTE PILE FOUNDATION
(2 Nos. 1.0x3.0m. BARRETTE PILE)**





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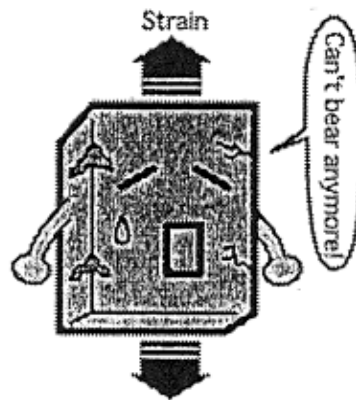
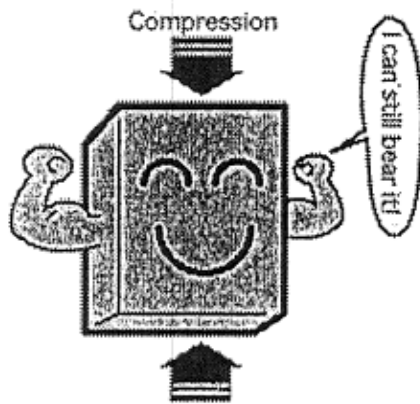


10. SUPER STRUCTURE

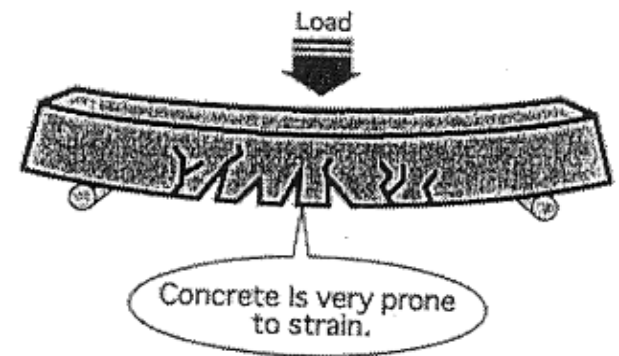


What is Prestressed Concrete ?

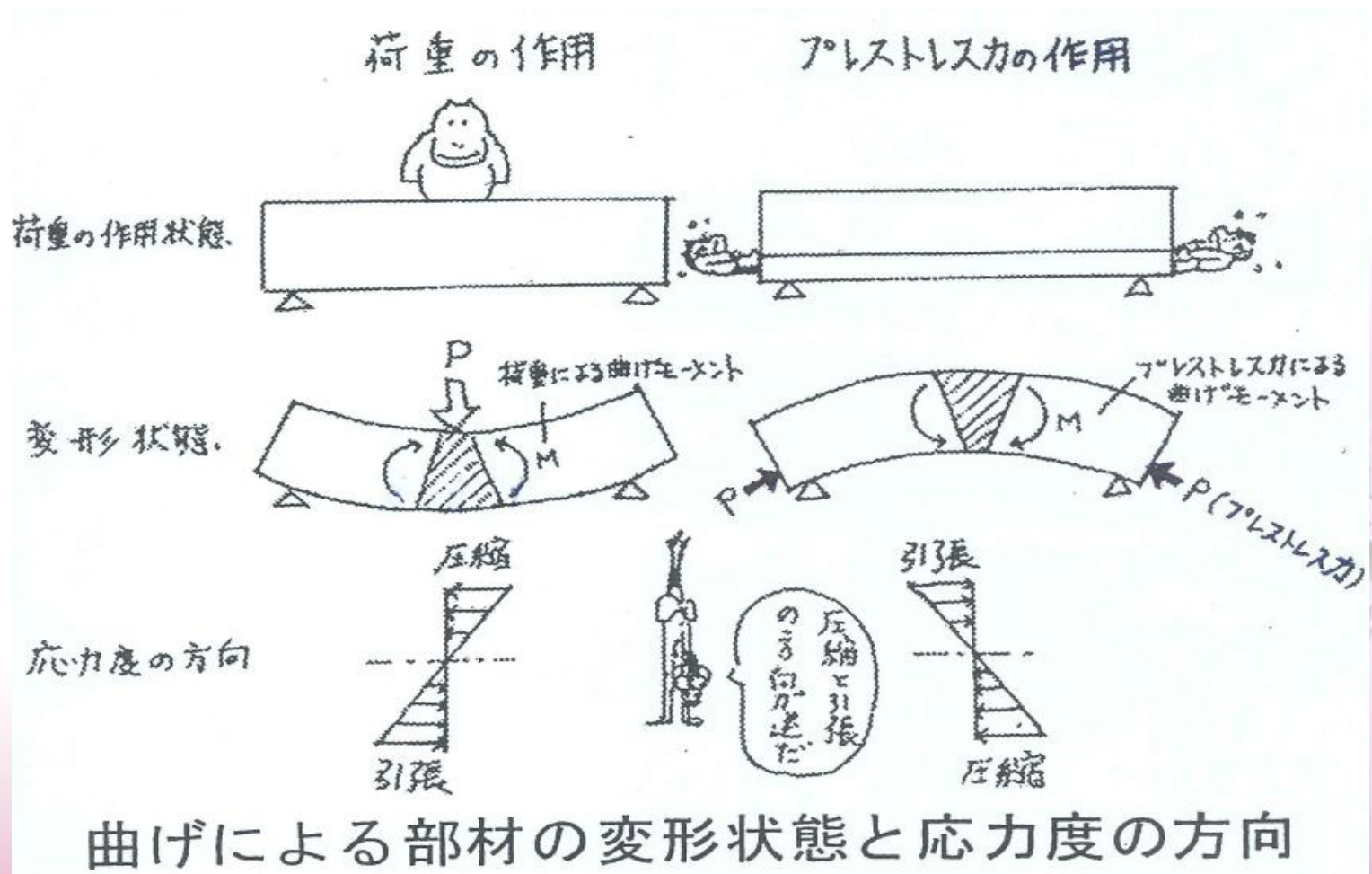
Nature of concrete





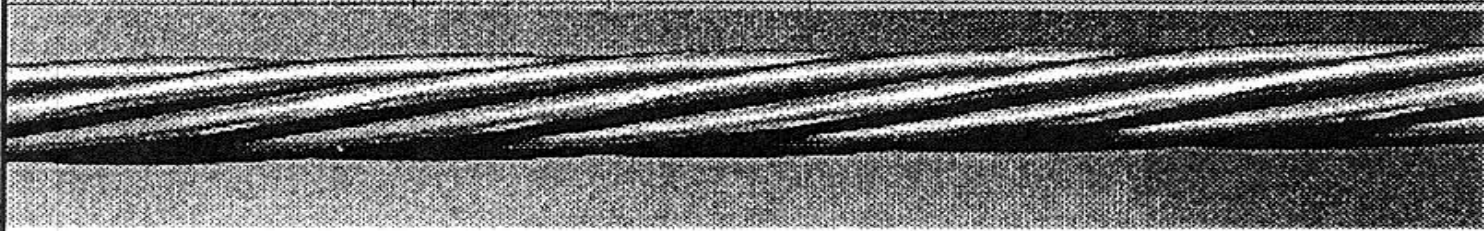


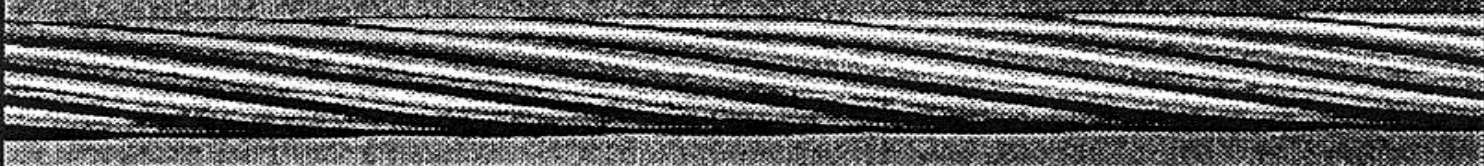
Plain concrete



What is Prestressed Concrete ?



High Tensile Steel Tendon

PC鋼より線				
	(mm)	(inch)	(形状)	
7本より	6.2~15.7	0.250~0.600		
				
19本より	17.8~21.8	0.700~0.860		
				

Segment fabrication at factory



Segment at storage



Segment transportation by rail



Segment transportation by Trailer





Segment erection

(Video Clip)





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SESSION 3: EARTHQUAKE



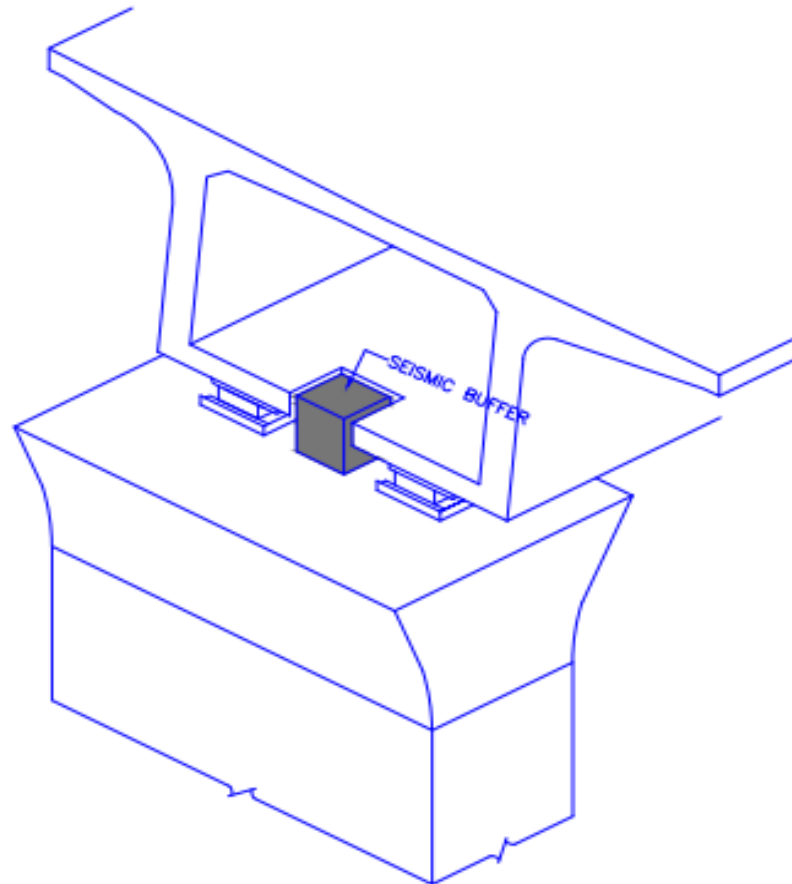
Against Earthquake ?

- 1, Design the structure against
“Appropriate Lateral Load”
- 2, Provide Seismic Buffer



Seismic Buffer

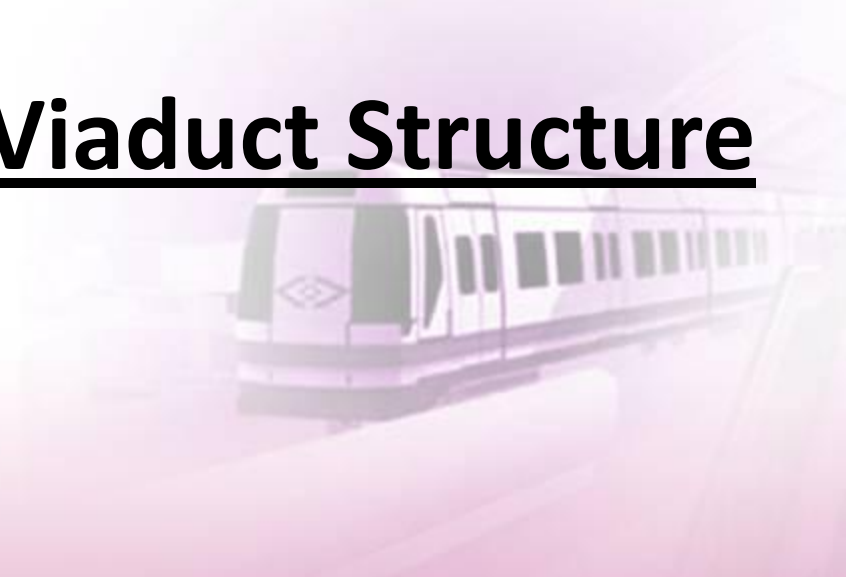
SEISMIC BUFFER



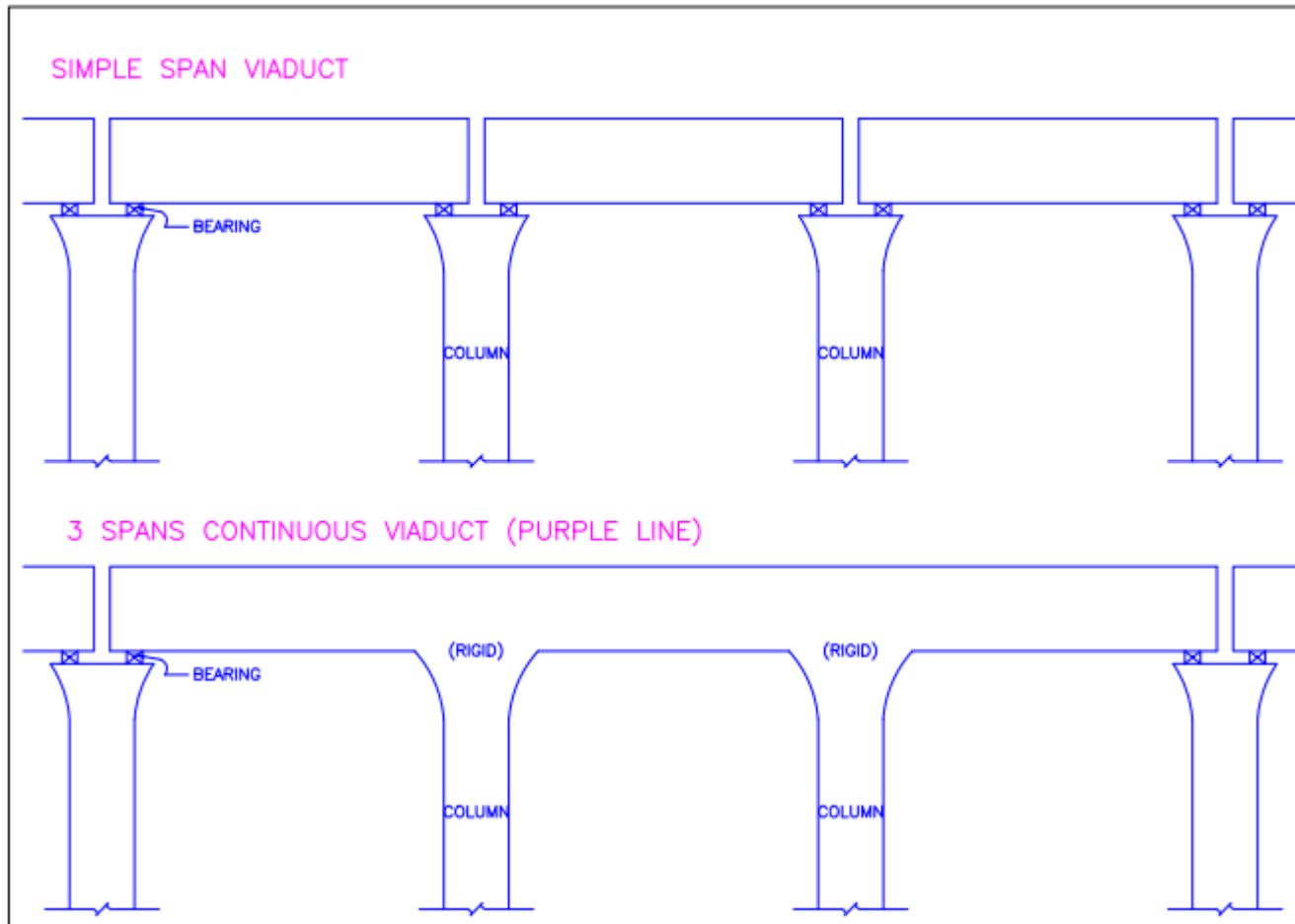
Against Earthquake ?

Further more, for Purple Line,

3, Continuous Viaduct Structure



Continuous Viaduct Structure





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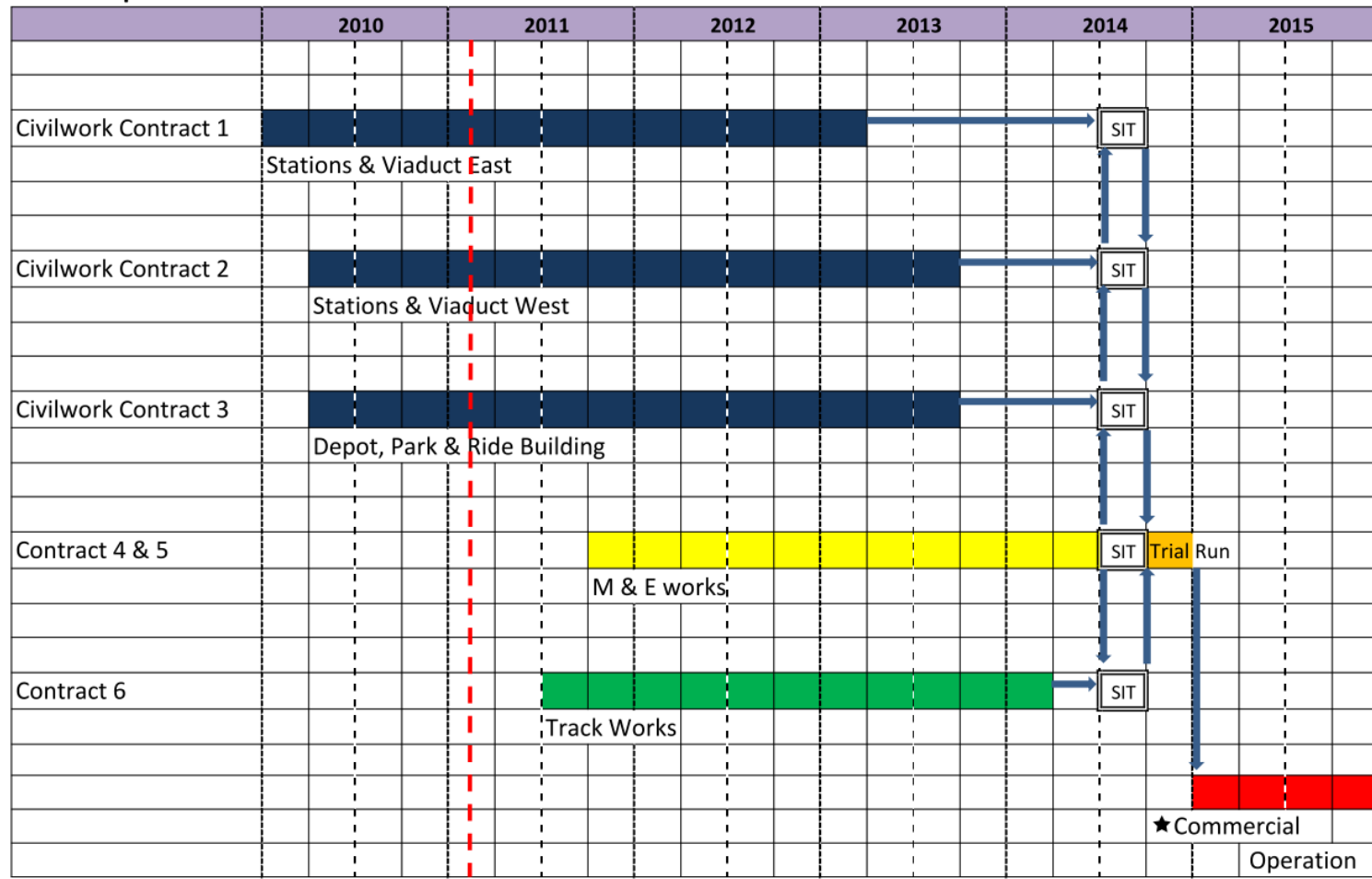


SESSION 4: OVERALL SCHEDULE



MRT Purple Line Schedule

MRT Purple-Line Schedule





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THANK YOU
THANK YOU



MRTA

