

AIT Technology Event

MRT Blue Line Extension Project Bangkok Thailand

9 July 2013



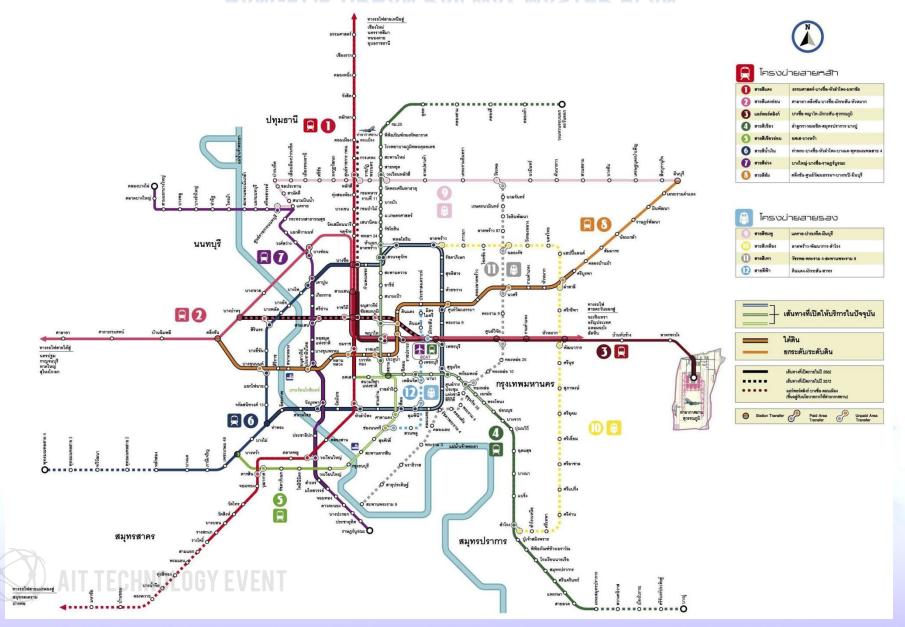




Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



BANGKOK URBAN RAILWAY MASTER PLAN







EXECUTING AGENCY FOR RAILWAY NETWORK

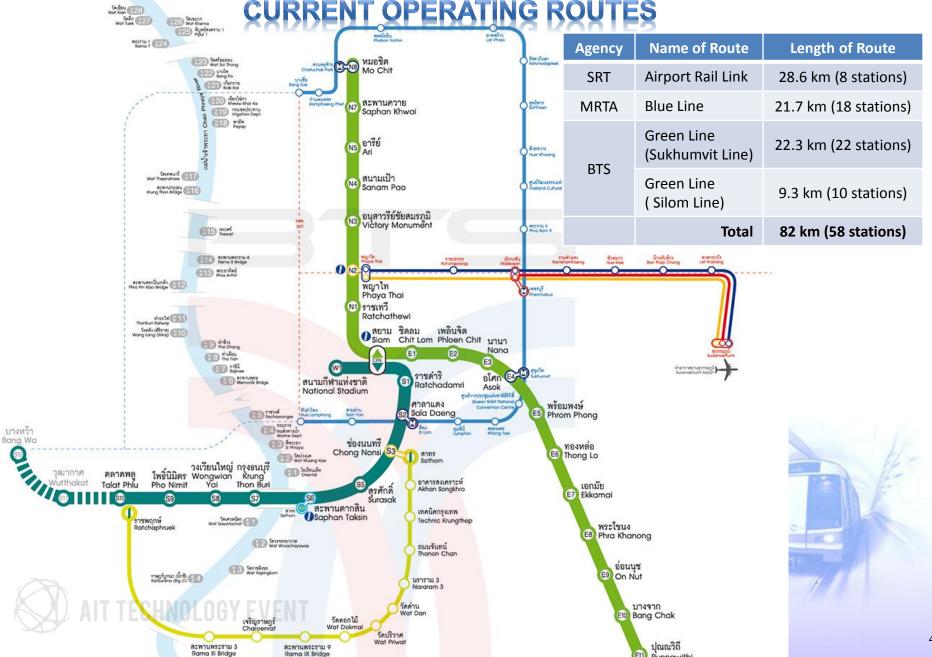
	Name of Agency	Administrative Division
MRTA	Mass Rapid Transit Authority of Thailand	Ministry of Transport
BTS	Bangkok Mass Transit System Public Company Limited	Bangkok Metropolitan Administration
SRT	State Railway of Thailand	Ministry of Transport















CURRENT OPERATING ROUTE - MRT BLUE LINE



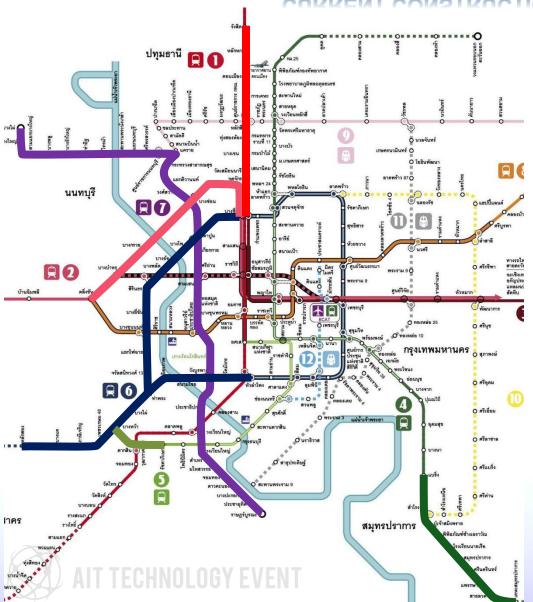




Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



CURRENT CONSTRUCTION ROUTES



Agency	Name of Route	Length of Route
SRT	Red Line Bang Sue - Rangsit	26 km 6 stations
SRT	Light Red Line Bang Sue - Taling Chan	15 km 4 stations
MRTA	Purple Line	25.6 km 16 stations
MRTA	Blue Line Ext.	26.9 km 19 stations
MRTA	Green Line Ext. Bearing - Kheha Samut Prakan	13 km 9 stations
BTS	Light Green Line Talat Phlu - Bangwa	~2.7km 2 stations





MRT Blue Line

Contract 1 Underground Civil Works

- Design and Construction
- Distance 2.8 km.
- 2 Underground Stations:

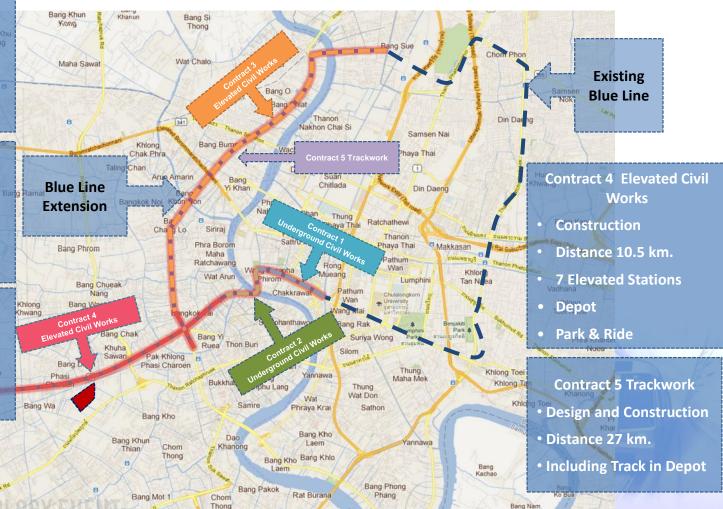
Contract 2 Underground Civil Works

- Design and Construction
- Distance 2.6 km.
- 2 Underground Stations:

Contract 3 Elevated Civil Works

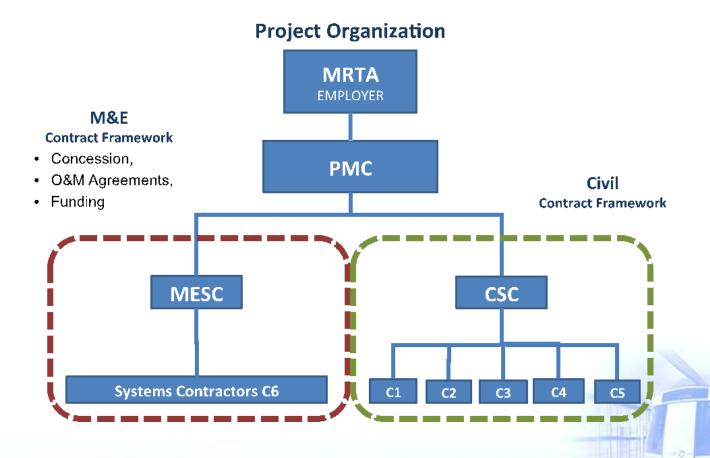
- Construction
- Distance 11 km.
- 8 Elevated Stations

Bang Khae











MRTA

MRT BLUE LINE EXTENSION PROJECT

Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Contractors

Contract 1 : Design and Build Underground Civil Works



Italian-Thai Development PCL

Contract Value: 11,400 Million Baht

Contract 2: Design and Build Underground Civil Works



CH. Karnchang PCL

Contract Value: 10,700 Million Baht

Contract 3: Build Elevated Civil Works



SH-UN Joint Venture

Contract Value : 11,300 Million Baht

Contract 4: Build Elevated Civil Works



SINO-THAI
Engineering & Construction PCL

Contract Value: 13,300 Million Baht

Contract 5: Design and Construction of Trackwork



CH. Karnchang PCL

Contract Value: 5,000 Million Baht

Project Management Consultant



Index International Group Co., Ltd



Project Planning Services Co., Ltd



Dorsch Consult Asia Co.,Ltd



Lanna Engineering Consultant Co.,Ltd



PPSN Co., Ltd



Arun Chaiseri Consulting Engineers Co.,Ltd



Merlin's Solutions International Co., Ltd

Contract Value : 726 Million Baht

Construction Supervision Consultant



MAA Consultants Co., Ltd.



Utility Design Consultants Co., Ltd.



Tesco Co., Ltd.



D2 CONSULT D2 Consult Asia Co., Ltd.



Epsilon Co., Ltd.



Moh and Associates Inc.

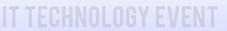


NorCiv Engineering Co., Ltd.



Nippon Koei Co., Ltd.

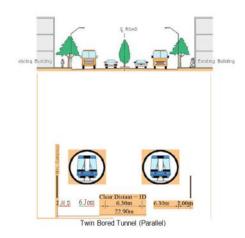
Contract Value: 1,200 Million Baht

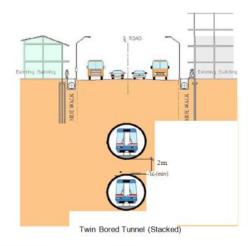


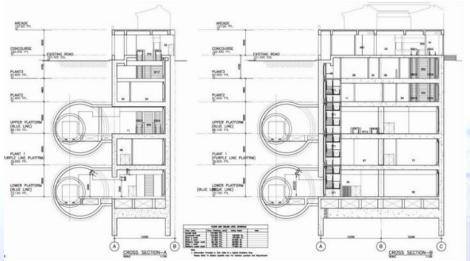




Project Details : Underground Structures





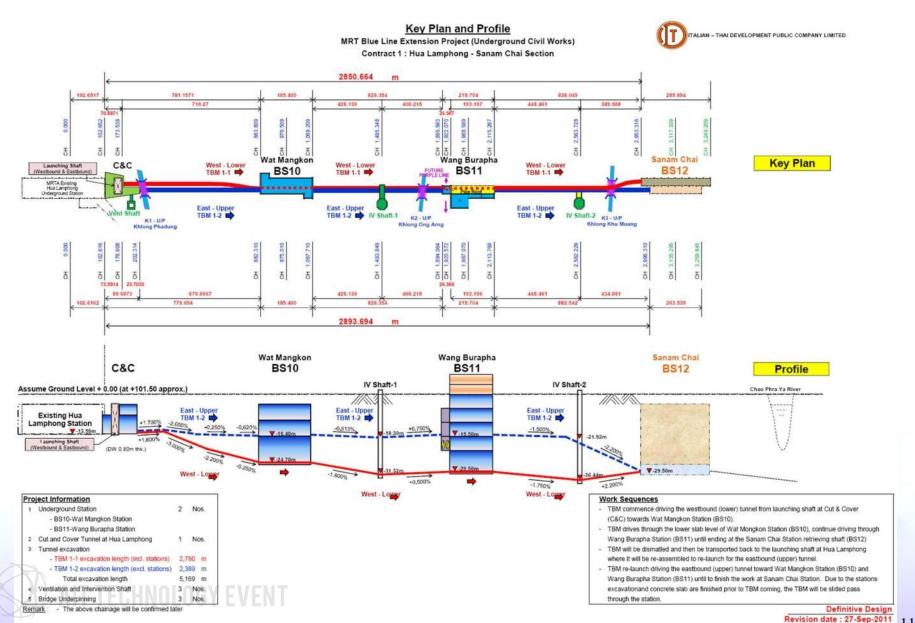




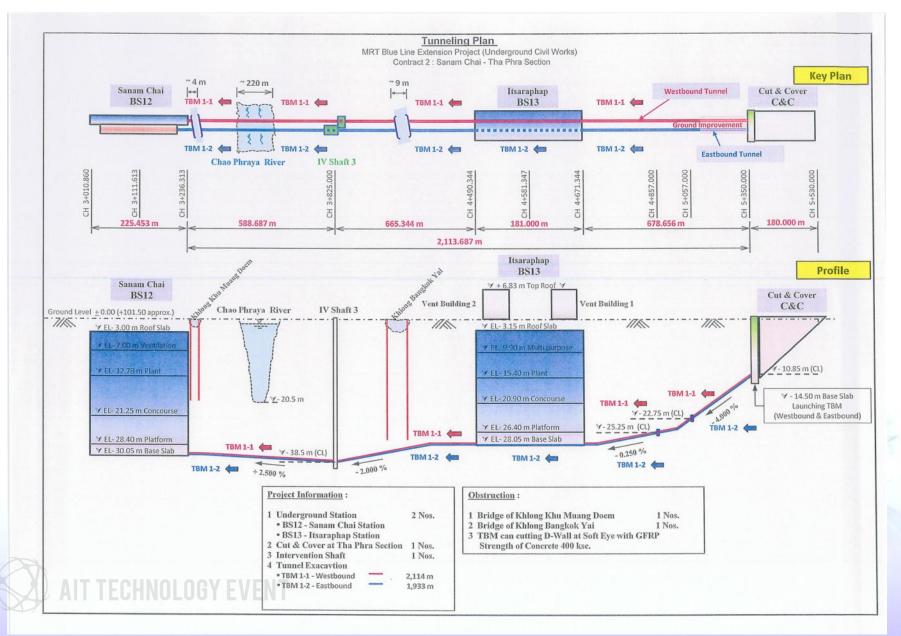
Tunnel











Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Project Details : Elevated Structures



Typical Structure



Portal Frame



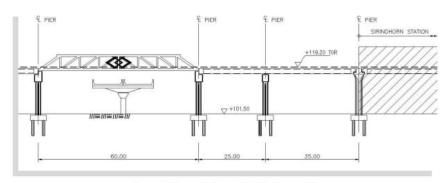
Portal Frame over Underpass



Structure for Long Span



Chao Phraya River Crossing Bridge at Bang Pho



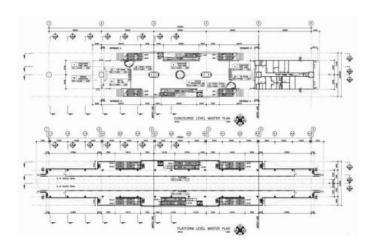
Space Truss at Bang Plat Intersection

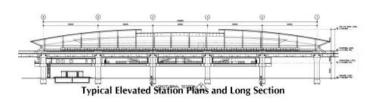


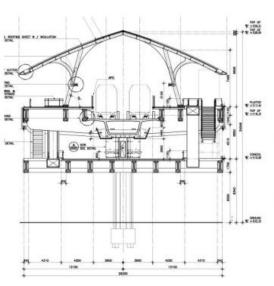




Stations and Buildings







Typical Elevated Station Cross Section



Typical Elevated Station



Hua Lamphong – Bang Khae and Tao Poon – Tha Phra Sections



Depot & Park and Ride Buildings



Park and Ride Buildings







Commencement Date: 4 April 2011 (Civil)

Contract Completion: 5 June 2016 (Civil)









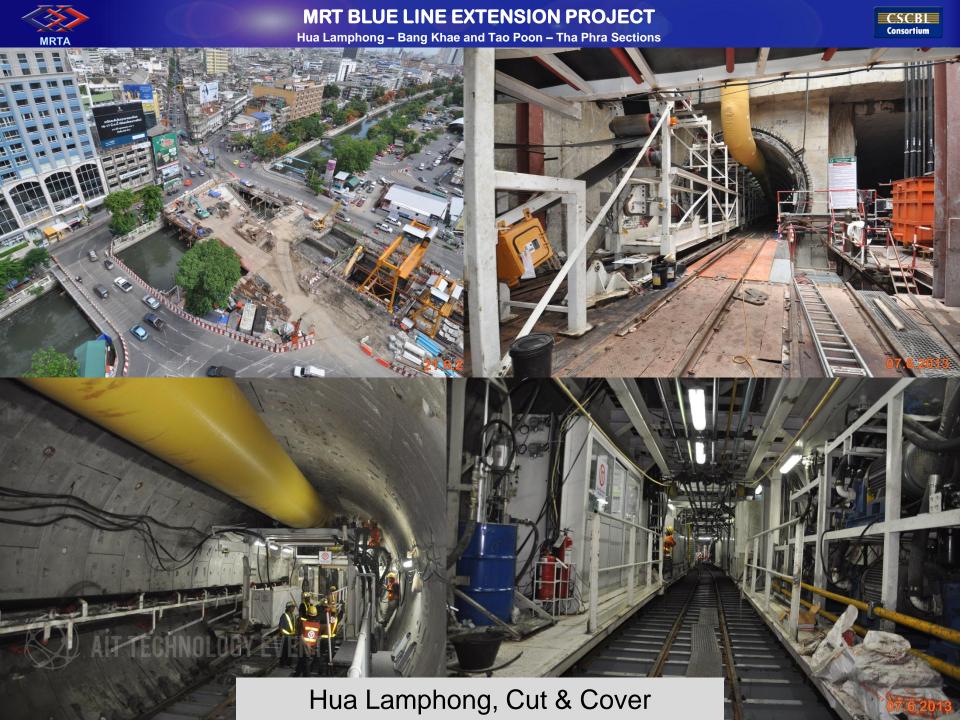
Current Progress : Contract 1

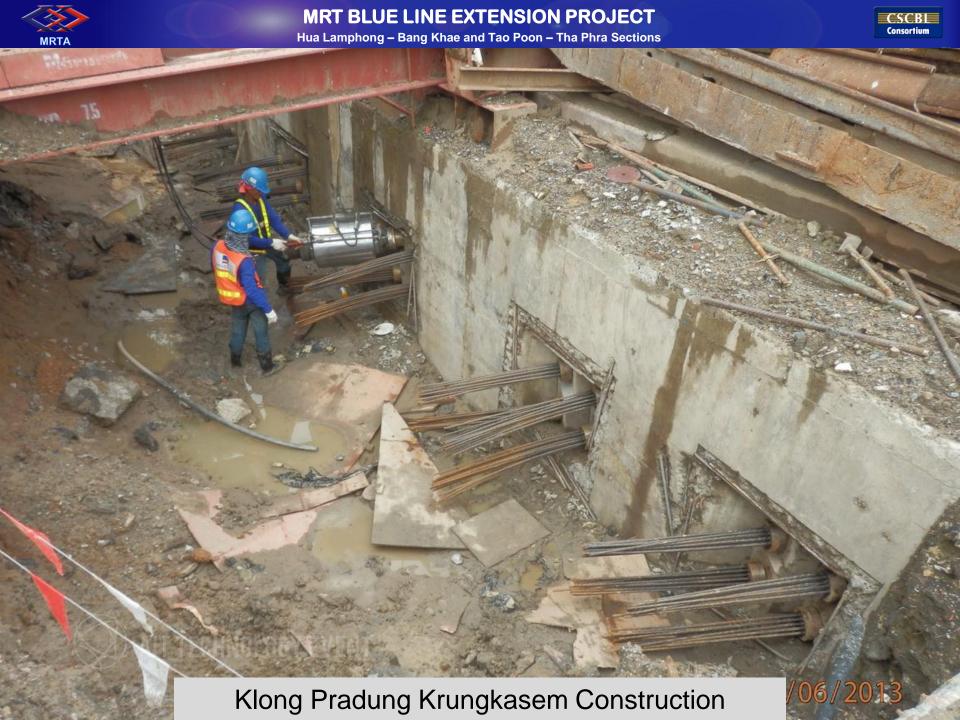










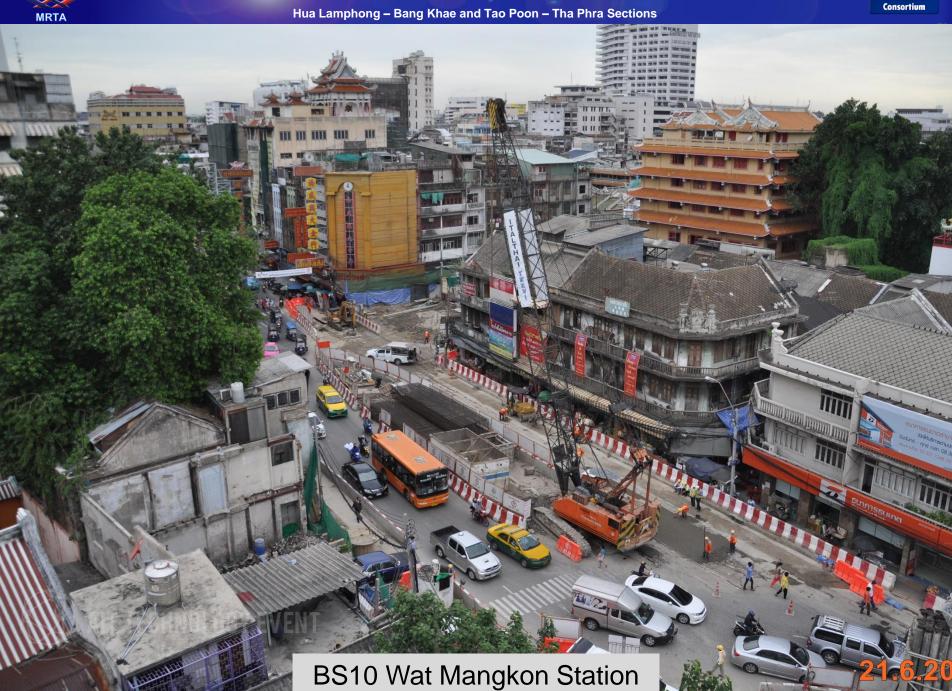




MRTA Hu

MRT BLUE LINE EXTENSION PROJECT















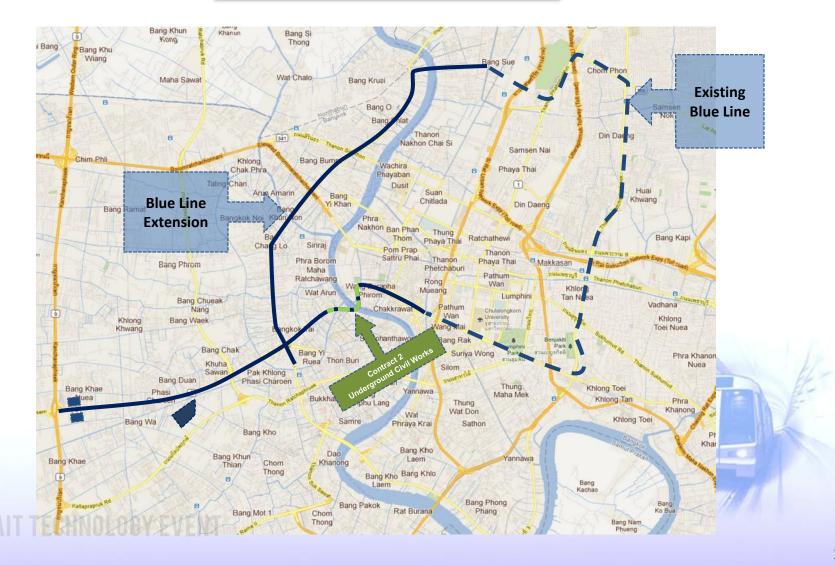








Current Progress : Contract 2













































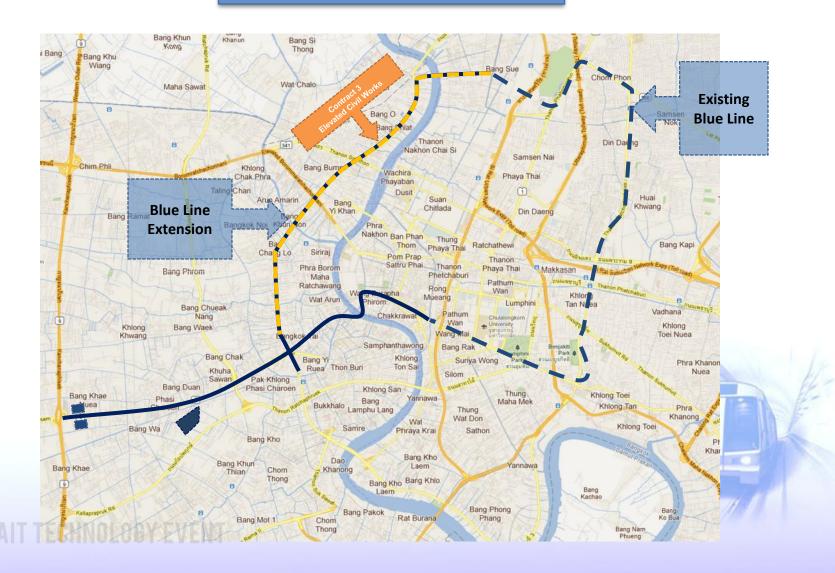




Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Current Progress : Contract 3









Construction of Pier-head at P-BN10-05 - Zone 1

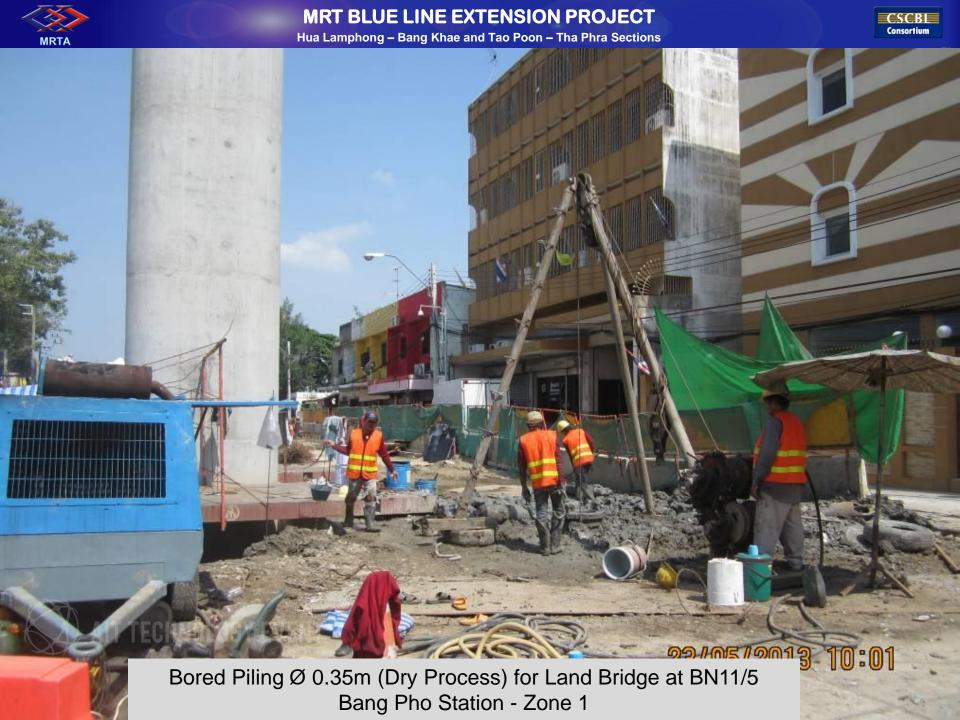


Construction of Pier-head at P-BN10-06 - Zone 1



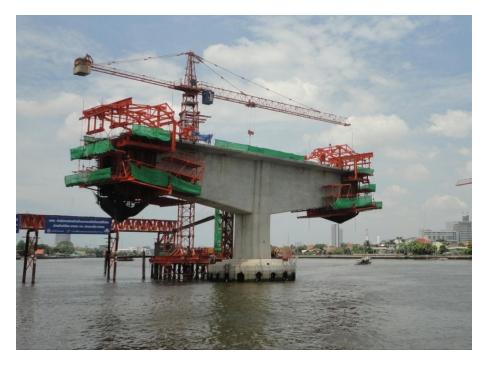












Balance cantilevering construction at P3 (P-BN11-05) Chao Phraya River Crossing



Balance cantilevering construction at P4 (P-BN11-06) Chao Phraya River Crossing

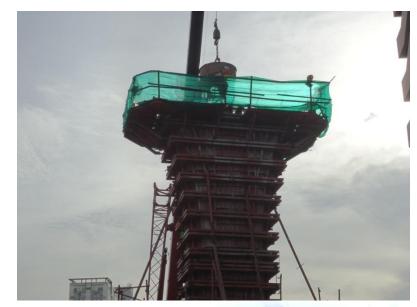








Construction of Pile Cap at P-BN11-12 – Zone 2



Construction of Pier-head at P-BN11-13 - Zone 2





MRT BLUE LINE EXTENSION PROJECT CSCBL Hua Lamphong – Bang Khae and Tao Poon – Tha Phra Sections Installation Cross Beam concourse Level Grid Line 4 Bang Phlat Station – Zone 2







Construction of Barrette Pile (0.80x2.70m) at BN14/2 (L:F) Sirindhorn Station – Zone 3



Construction of Barrette Pile (0.80x2.70m) at BN14/4 (L:E) Sirindhorn Station – Zone 3









Construction of Pile Cap at P-BN15-16 BCL at Boromratchonni – Zone 3







Installation of Crossbeam Interface Segment (IF) at BN16/3 (Concourse Level) Bang Khun Non Station – Zone 5



Installation of Crossbeam Interface Segment (IF) at BN16/4 (Concourse Level) Bang Khun Non Station – Zone 5







LG2: Erection of Main Truss (Right) at P-BN16-10/P-BN16-09 – Zone 5

LG2: Assembly Main Truss (Left) at P-BN16-10/P-BN16-09 – Zone 5









LG1: Segments Erection at Span P-BN17-46 / P-BN18/1 – Zone 5







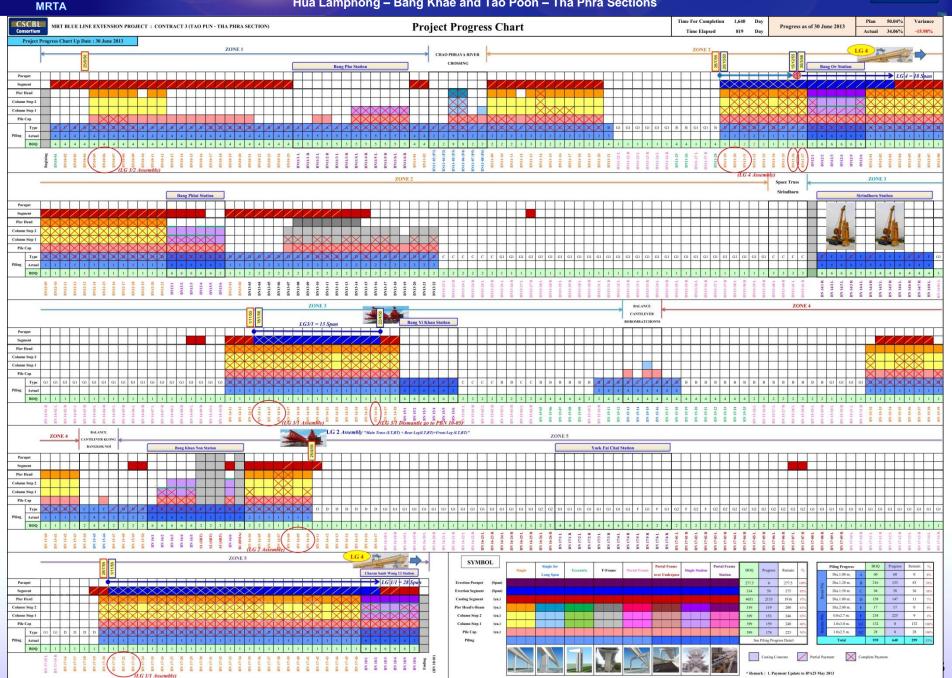
Installation of Crossbeam Segment at BN18/3 (Platform Level) Charn Sanit Wong Station - Zone 5



Installation of Crossbeam Segment at BN18/4 (Platform Level) Charn Sanit Wong Station - Zone 5





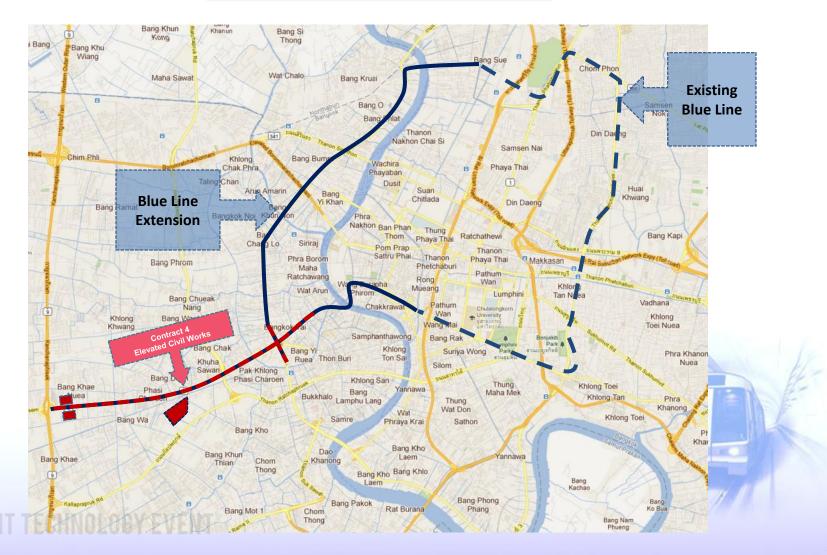




Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Current Progress: Contract 4





Hua Lamphong – Bang Khae and Tao Poon – Tha Phra Sections







Installation of Launcher Support at P-BN18-05 to P-BS15-06 Charan Sanitwong Rd.



Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections







Column Work at P-BS13-09 Near Transition Area







Column Work at P-BS14-20 Phet Kasem Rd.

Column Work at P-BS14-28
Phet Kasem Rd.











BS-15/5 Bang Phai Station



















































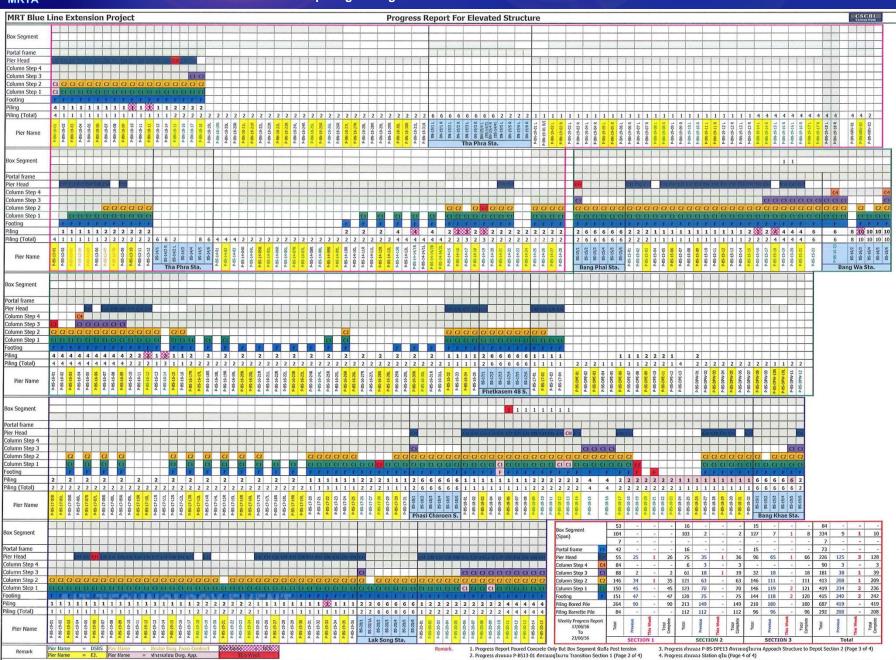








CSCBL Consortium

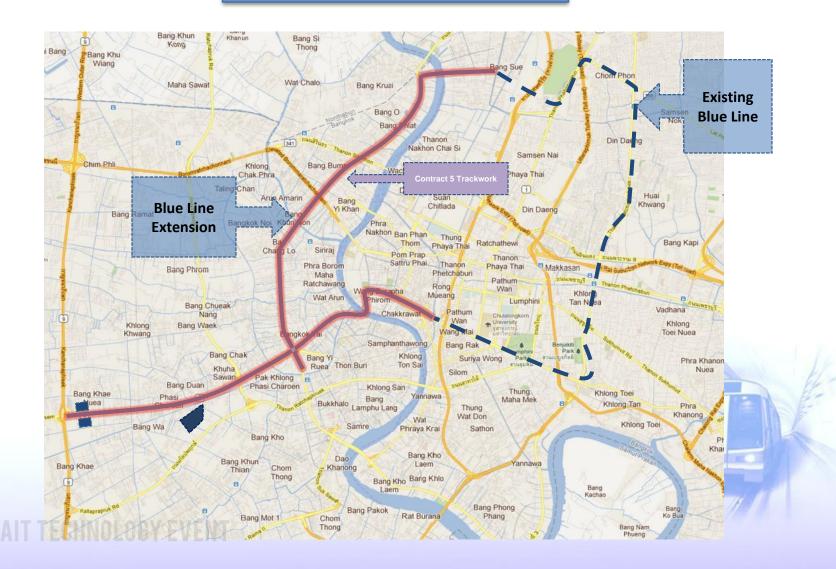




Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Current Progress : Contract 5







Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections





Warehouse No.1



Warehouse No.2



Warehouse No.3



Warehouse No.4























Hua Lamphong - Bang Khae and Tao Poon - Tha Phra Sections



Thank you for your attention



