

Socialist Republic of Vietnam
Ho Chi Minh City and Binh Duong Province

Preparatory Survey
on
Transit Oriented Development
in Binh Duong Province
and
BRT Development Project
(PPP Infrastructure Project)

Final Report

Appendix-B: Drawings of BRT Facilities

February 2016

Japan International Cooperation Agency
(JICA)

T o k y u C o r p o r a t i o n
N i p p o n K o e i C o , . L t d .
NIKKEN SEKKEI Research Institute
Koei Research Institute International

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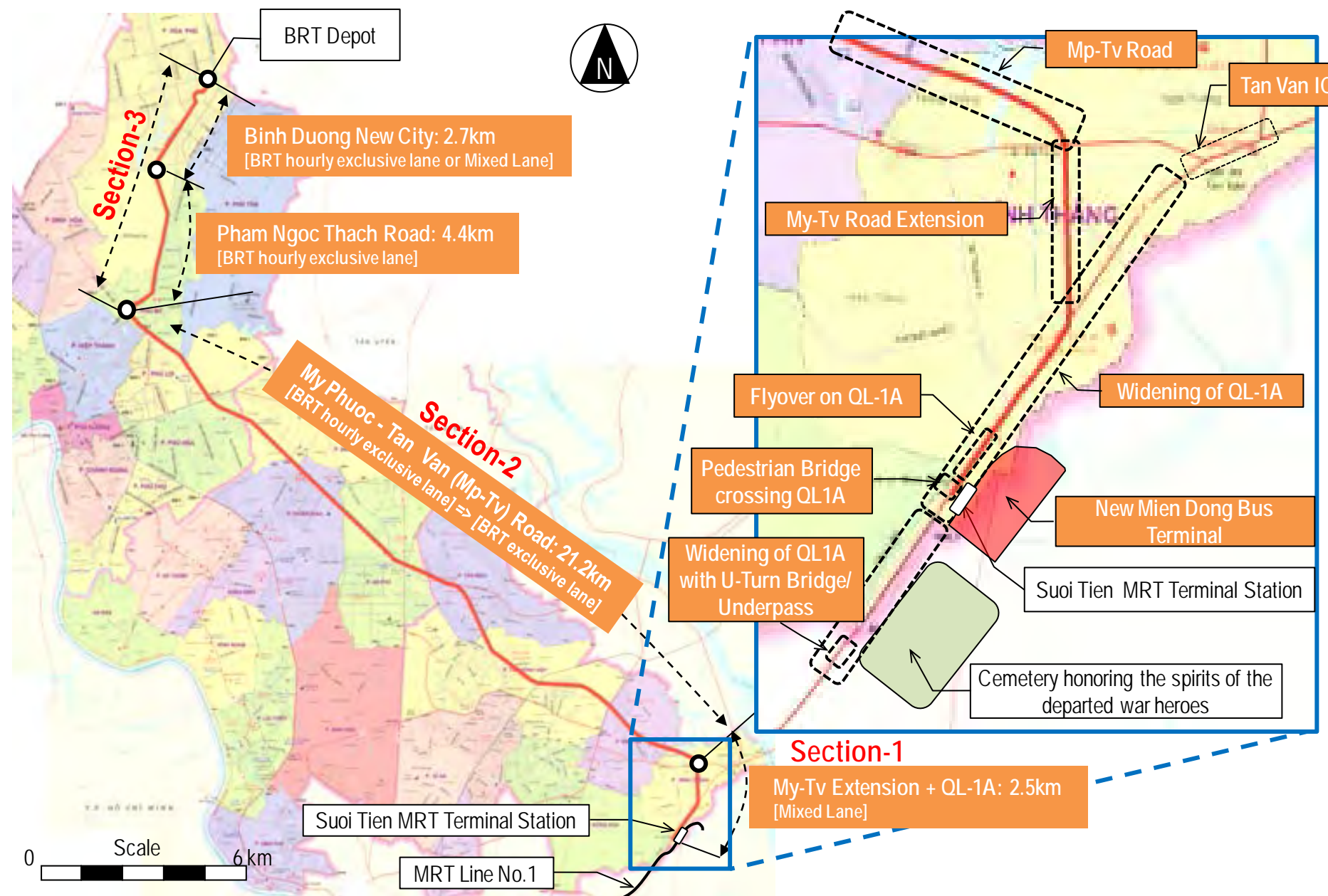
T o k y u C o r p o r a t i o n
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DRAWINGS

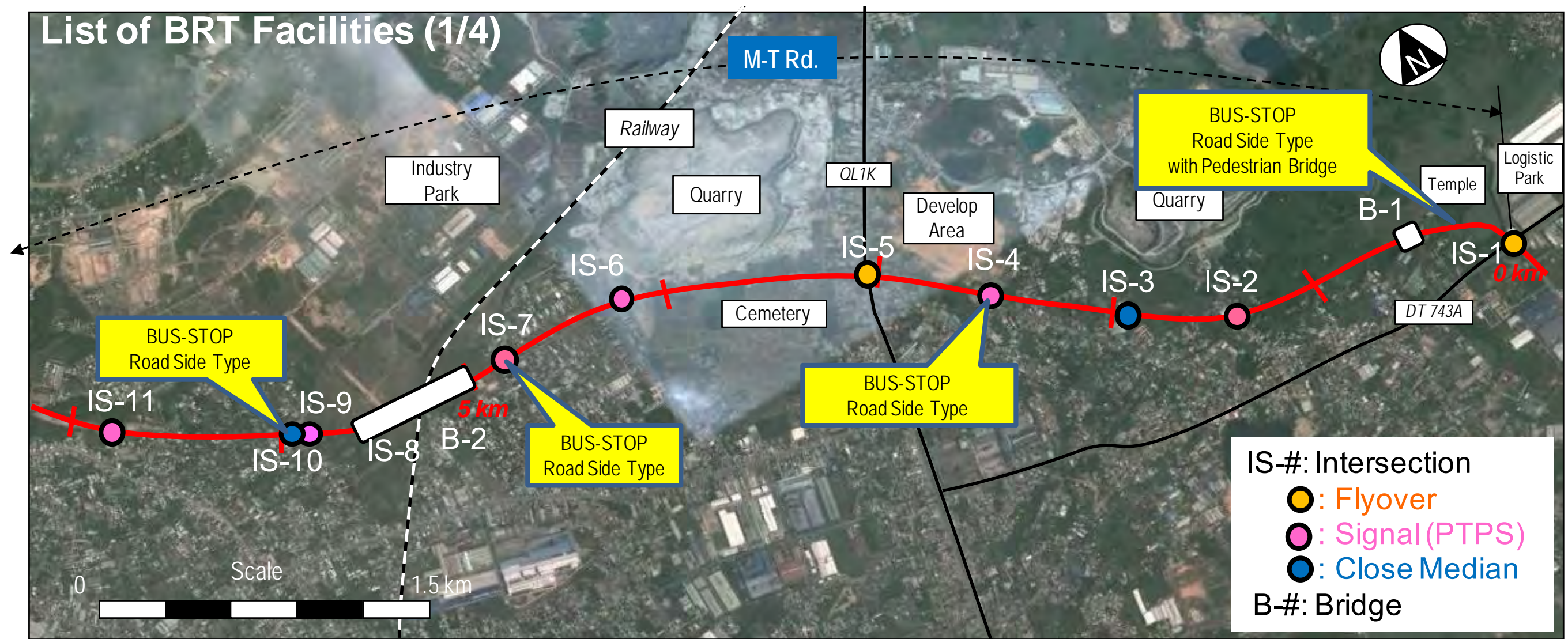
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 - CONSTRUCTION PLAN OF FLYOVER
3. SECTION-3
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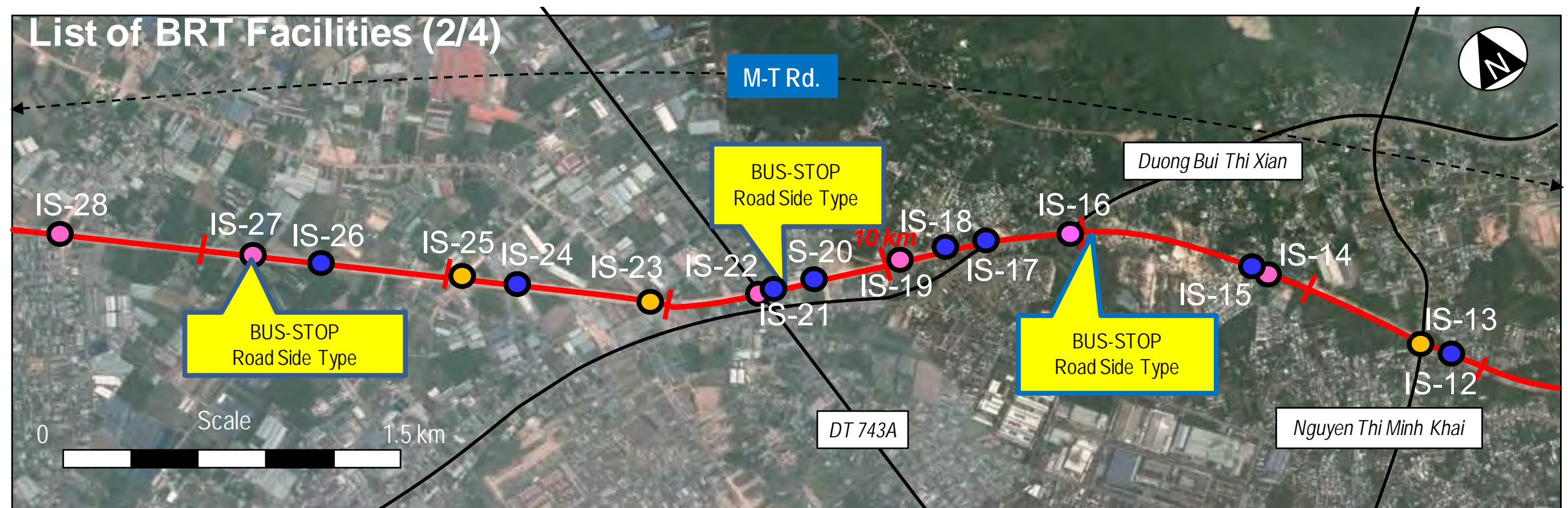
LOCATION MAP

Note:

- i. Road infrastructures related to BRT operation shown as **Infrastructure Projects** in above Location Map are out of scope of the Project. These infrastructure shall be developed by another project before start BRT operation.
- ii. BRT route of Section-1 has each route in two phases depending on the progress of development of related road infrastructures. In phase-1 (temporary operation of BRT), New Mien Dong Bus Terminal, U-Turn Bridge/Underpass, Extension of Mp-Tv Road and Tan Van Interchange should be completed in 2018. In phase-2, other infrastructures such as flyover on QL1A, pedestrian bridge and widening of QL1A should be completed in 2020 so that BRT can operate in full-scale business.

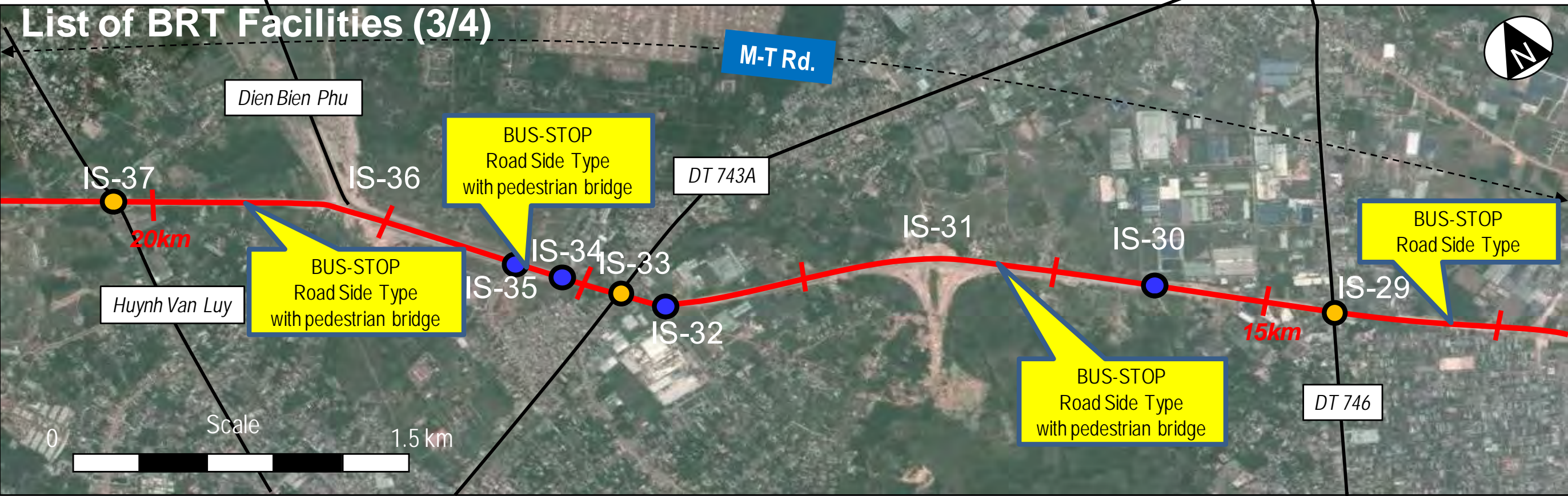


City/ Town	ID	STA	Crossing Road			Current Median Space (m)	Signaling 0: None, 1: Plan, 2: Existing	Improvement Plan
			Name	Current Width (m)	Future Width (m)			
Di An	IS-1	0 + 000	DT743A				1	Flyover
	IS-2	1 + 437	Vam Suoi	3	22	40.0	0	Signal
	IS-3	1 + 970	Chau Thoi	6	6	40.0	0	Close Median
	IS-4	2 + 500	Road to Xom Moi	6	17	40.0	0	Signal
	IS-5	3 + 078	National Highway 1K			80.5	1	Flyover
	IS-6	4 + 250	Road 5 Tan Dong Hiep Industrial zone	28	28	30.0	1	Signal
	IS-7	4 + 850	Dong Thanh	7	19	30.0	1	Signal
	IS-8	5 + 450				0.0	0	-
	IS-9	5 + 800	North South 6 planning Road	0	30	0.0	1	Close Median
	IS-10	5 + 925		7	17	25.0	1	Signal
	IS-11	6 + 800				33.0	0	Close Median

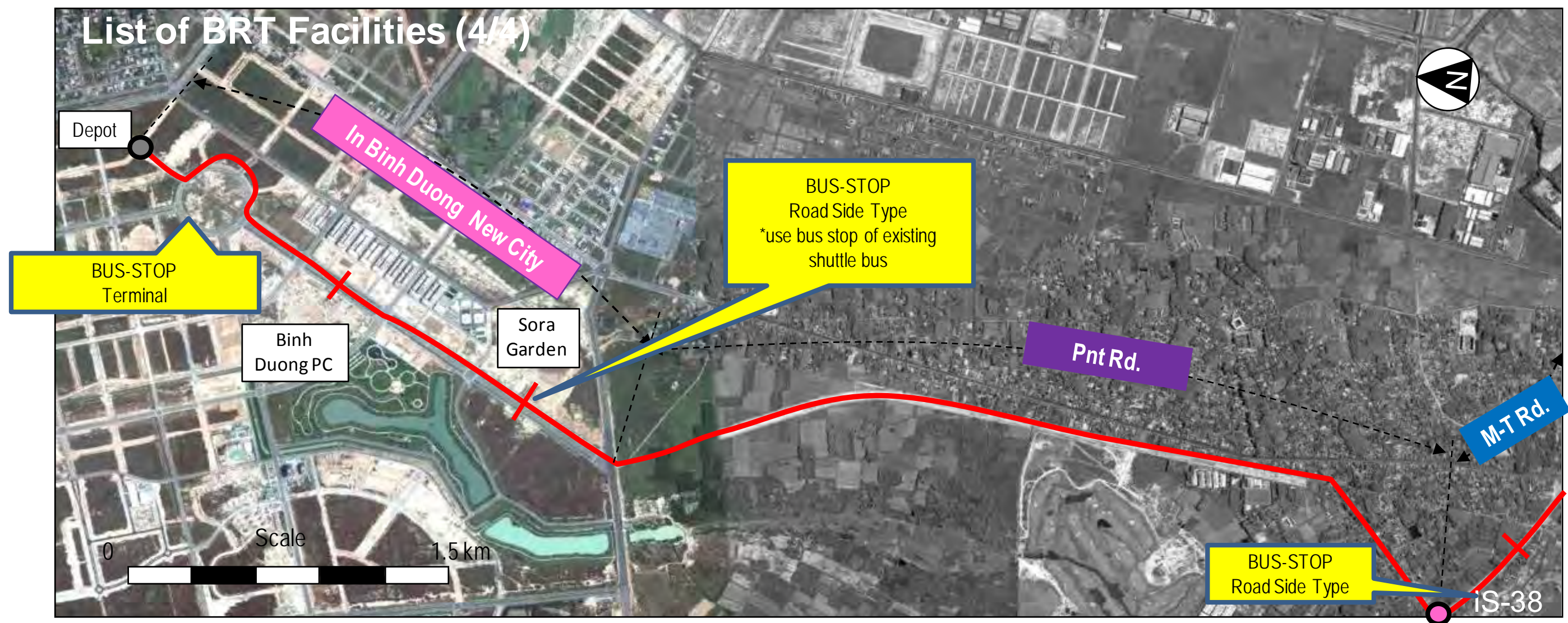


City/ Town	ID	STA	Crossing Road			Current Median Space (m)	Signaling 0: None, 1: Plan, 2: Existing	Improvement Plan
			Name	Current Width (m)	Future Width (m)			
Di An	IS-12	7 + 272	Le Van Mam			30.0	1	Close Median
	IS-13	7 + 471	Nguyen Thi Minh Khai	22	22	30.0	1	Flyover
	IS-14	8 + 225	Cay Da – Thanh Nien	7	22	40.0	1	Signal
	IS-15	8 + 275	Cay Da – Cay Da	7	20	0.0	0	Close Median
	IS-16	9 + 050	Bui Thi Xuan	22	30	27.5	1	Signal
	IS-17	9 + 442				30.0	1	Close Median
	IS-18	9 + 650				0.0	0	Close Median
	IS-19	9 + 900	Tran Quang Dieu	7	22	Open	0	Signal
Thu An	IS-20	10 + 309				0.0	0	Close Median
	IS-21	10 + 559	An Phu Intersection	16	22	15.0	1	Closed Median
	IS-22	10 + 611	An Phu Intersection (DT 743A)	23	40	40.0	1	Signal
	IS-23	11 + 075	An Phu – Binh Chuan	21	21	47.0	0	Flyover
	IS-24	11 + 710				0.0	0	Close Median
	IS-25	11 + 950	An Phu 16	6	17	65.0	1	Signal
	IS-26	12 + 570	An Phu 13	6	17	36.5	0	Close Median
	IS-27	12 + 875	Thuan An Hoa	17	17	58.0	0	Signal
	IS-28	13 + 740	Thuan Giao 02	10	22	47.0	2	Signal

List of BRT Facilities (3/4)



City/ Town	ID	STA	Crossing Road			Current Median Space (m)	Signaling 0:None, 1:Plan, 2: Existing	Improvement Plan
			Name	Current Width (m)	Future Width (m)			
Thu An	IS-29	14 + 647	Thu Khoa Huan	15.5	32	30.0	2	Flyover
	IS-30	15 + 525				Open	0	Close Median
Thu Dau Mot	IS-31	16 + 450	Vanh Dai 3 (Ring Road 3)	0	N/A	50.0	0	Interchange
	IS-32	17 + 700	Nguyen Thai Binh	15	28	35.0	1	Close Median
	IS-33	17 + 874	Phu Loi (DT743)	22	22	46.0	2	Flyover
	IS-34	18 + 050				Open	0	Close Median
	IS-35	18 + 375				38.5	0	Close Median
	IS-36	19 + 143	Tao Luc 1	N/A	N/A	Open	2	Interchange
	IS-37	20 + 225	Huynh Van Luy	24	24	40.0	2	Flyover



City/ Town	ID	STA	Crossing Road			Current Median Space (m)	Signaling 0. None, 1: Plan, 2: Existing	Improvement Plan
			Name	Current Width (m)	Future Width (m)			
Thu Dau Mot	IS-38	21 + 210	Phạm Ngọc Thạch	7	51.5	58.5	2	Signal

Total Number of Intersection Improvement Facilities developed in the Project

Flyover	Signal with PTPS	Close Median
7	13 + 1 at intersection with QL1A	15

Total Number of Bus Stop

Road Side Type	Road Side Type with Pedestrian bridge	BUS Terminal
8	4	To be considered

List of Drawings (1/2)

NO.	DRAWING TITLE	QUANTITY	DRAWING NO.
	DRAWINGS		
1	SECTION-1		
1.1	PHASE-1 OF SECTION-1	27	
1	PLAN OF BRT ROUTE (1/21~ 19/21)	19	SE1P1-01 ~ SE1P1-19
2	PLAN OF BRT ROUTE - BRT ALIGHTING AND BOARDING (20/21)	1	SE1P1-20
3	PLAN OF BRT ROUTE - DETAIL OF BRT ROUTE AT U-TURN BRIDGE OF NATIONAL UNIVERSITY IC (21/21)	1	SE1P1-21
4	TYPICAL CROSS SECTION (1/3 ~ 2/3)	3	SE1P1-22 ~ SE1P1-24
5	TEMPORARY PEDESTRIAN BRIDGE (1/3 ~ 3/3)	3	SE1P1-25 ~ SE1P1-27
1.2	PHASE-2 OF SECTION-1	20	
1	PLAN OF BRT ROUTE (1/11 ~ 10/11)	10	SE1P2-01 ~ SE1P2-10
2	PLAN OF BRT ROUTE - BRT ALIGHTING AND BOARDING (11/11)	1	SE1P2-11
3	TYPICAL CROSS SECTION (1/2 ~ 2/2)	2	SE1P2-12 ~ SE1P2-13
4	GENERAL VIEW OF PEDESTRIAN BRIDGE (1/3)	1	SE1P2-14
5	GENERAL VIEW OF PEDESTRIAN BRIDGE - CROSS SECTION (2/3)	1	SE1P2-15
6	GENERAL VIEW OF PEDESTRIAN BRIDGE - DETAIL OF CROSS SECTION (3/3)	1	SE1P2-16
	GENERAL VIEW OF FLYOVER AT SUOI TIEN TERMINAL STATION - SIDE & PLAN VIEW (1/4 ~ 3/4)	3	SE1P2-17 ~ SE1P2-19
7	GENERAL VIEW OF FLYOVER AT SUOI TIEN TERMINAL STATION - CROSS SECTION VIEW (4/4)	1	SE1P2-20
2	SECTION-2		
2.1	PLAN AND PROFILE, CROSS SECTION, ROAD FACILITIES	52	
1	PLAN VIEW OF FLYOVER DT743	1	SE2-01
2	PLAN AND PROFILE OF MY PHUOC - TAN VAN ROAD (1/35 ~35/35)	35	SE2-02 ~ SE2-36
3	TYPICAL CROSS SECTION OF MY PHUOC - TAN VAN ROAD (1/11 ~ 11/11)	11	SE2-37 ~ SE2-47
4	DETAIL OF BUS STATION	1	SE2-48
5	TYPICAL OF ELECTRIC SIGN BOARD (1/2 ~ 2/2)	2	SE2-49 ~ SE2-50
6	TYPICAL OF TRAFFIC SIGN (1/2 ~ 2/2)	2	SE2-51 ~ SE2-52
2.2	FLYOVER	39	
	FLYOVER IS1		
1	CROSS SECTION OF FLYOVER IS1 (1/5)	1	SE2-53
2	PLAN AND PROFILE OF FLYOVER IS1 (2/5 ~ 5/5)	4	SE2-54 ~ SE2-57
	FLYOVER IS5		
1	CROSS SECTION OF FLYOVER IS5 (1/6)	1	SE2-58
2	PLAN AND PROFILE OF FLYOVER IS5 (2/6 ~ 5/6)	5	SE2-59 ~ SE2-63
	FLYOVER IS13		
1	CROSS SECTION OF FLYOVER IS13 (1/5)	1	SE2-64
2	PLAN AND PROFILE OF FLYOVER IS13 (2/5 ~ 5/5)	4	SE2-65 ~ SE2-68
	FLYOVER IS23		
1	CROSS SECTION OF FLYOVER IS23 (1/5)	1	SE2-69
2	PLAN AND PROFILE OF FLYOVER IS23 (2/5 ~ 5/5)	4	SE2-70 ~ SE2-73

List of Drawings (2/2)

NO.	DRAWING TITLE	QUANTITY	DRAWING NO.
	FLYOVER IS29		
1	CROSS SECTION OF FLYOVER IS29 (1/5)	1	SE2-74
2	PLAN AND PROFILE OF FLYOVER IS29 (2/5 ~ 5/5)	4	SE2-75 ~ SE2-78
	FLYOVER IS32-33		
1	CROSS SECTION OF FLYOVER IS32 (1/5)	1	SE2-79
2	PLAN AND PROFILE OF FLYOVER IS32 (2/5 ~ 5/5)	4	SE2-80 ~ SE2-83
	FLYOVER IS37		
1	CROSS SECTION OF FLYOVER IS37 (1/5)	1	SE2-84
2	PLAN AND PROFILE OF FLYOVER IS37 (2/5 ~ 5/5)	4	SE2-85 ~ SE2-88
	MSE WALL		
1	TYPICAL OF MSE WALL (1/3 ~ 3/3)	3	SE2-89 ~ SE2-91
2.3	PEDESTRIAN BRIDGE	12	
	PEDESTRIAN BRIDGE AT STATION 0+425		
1	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 0+425 (1/3)	1	SE2-92
2	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 0+425 - CROSS SECTION (2/3)	1	SE2-93
3	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 0+425 - DETAIL OF CROSS SECTION (3/3)	1	SE2-94
	PEDESTRIAN BRIDGE AT STATION 15+925		
1	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 15+925 (1/3)	1	SE2-95
2	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 15+925 - CROSS SECTION (2/3)	1	SE2-96
3	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 15+925 - DETAIL OF CROSS SECTION (3/3)	1	SE2-97
	PEDESTRIAN BRIDGE AT STATION 18+235		
1	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 18+235 (1/3)	1	SE2-98
2	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 18+235 - CROSS SECTION (2/3)	1	SE2-99
3	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 18+235 - DETAIL OF CROSS SECTION (3/3)	1	SE2-100
	PEDESTRIAN BRIDGE AT STATION 19+675		
1	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 19+725 (1/3)	1	SE2-101
2	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 19+725 - CROSS SECTION (2/3)	1	SE2-102
3	GENERAL VIEW OF PEDESTRIAN BRIDGE AT STATION 19+725 - DETAIL OF CROSS SECTION (3/3)	1	SE2-103
2.4	METHOD OF CONSTRUCTION		
1	PLAN VIEW OF CONSTRUCTION SITE	1	SE2-104
2	SECTION VIEW OF CONSTRUCTION SITE	1	SE2-105
3	TYPICAL METHOD OF CONSTRUCTION BORED PILE (1/2 ~ 2/2)	2	SE2-106~SE107
4	TYPICAL METHOD OF CONSTRUCTION PIER	1	SE2-108
5	TYPICAL METHOD OF CONSTRUCTION ABUTMENT	1	SE2-109
6	ERECTION PROCEDURE GIRDER (1/4 ~ 4/4)	4	SE2-110~SE113
3	SECTION-3	8	
1	PLAN OF BRT ROUTE IN BINH DUONG NEW CITY ROAD (1/7 ~ 7/7)	7	SE3-01~SE3-07
2	TYPICAL CROSS SECTION ROAD TO BINH DUONG NEW CITY	1	SE3-08

DRAWINGS

1. SECTION-1

DRAWINGS

1. SECTION-1

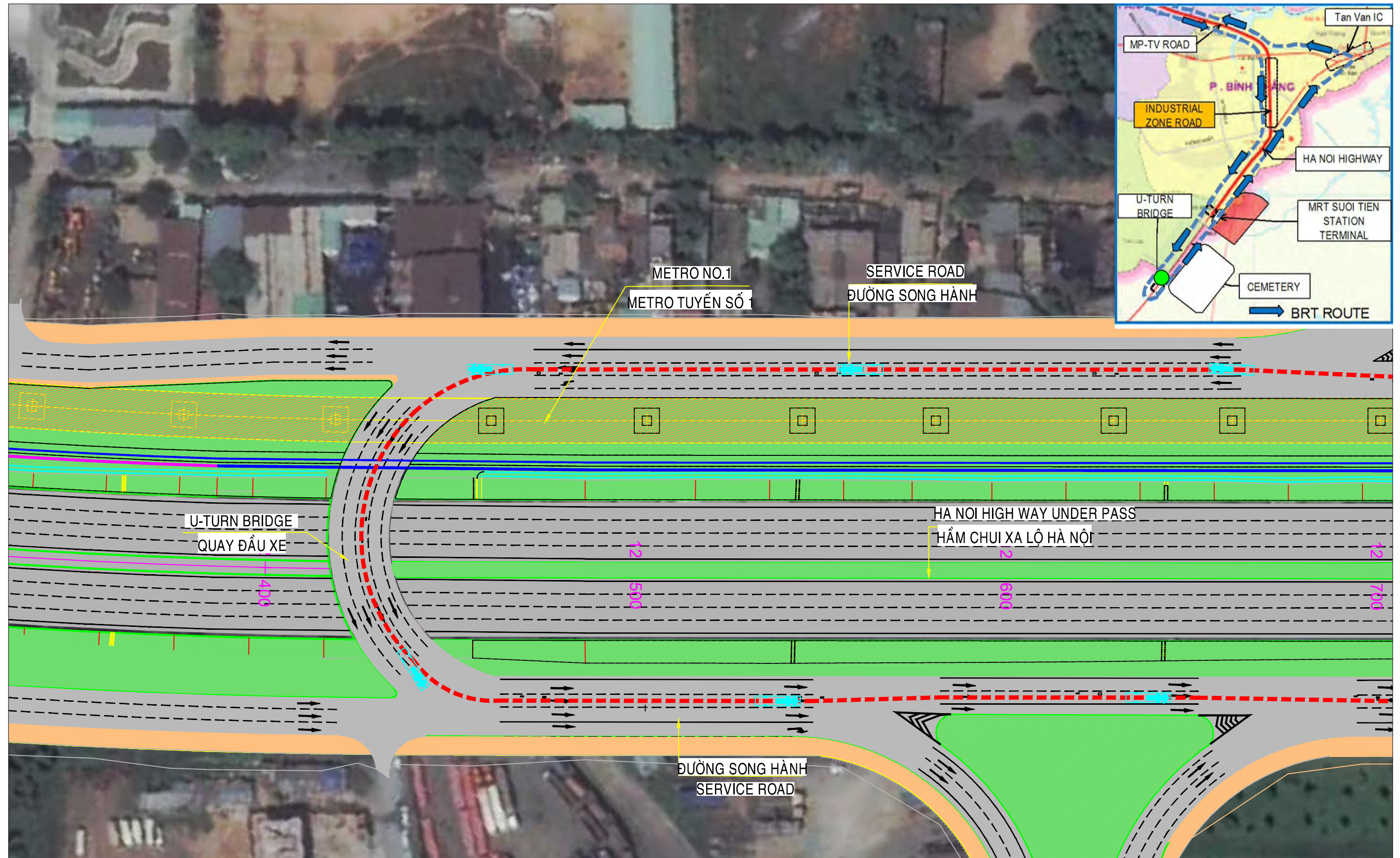
1.1 PHASE-1

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



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NÚT GIAO TÂN VẠN



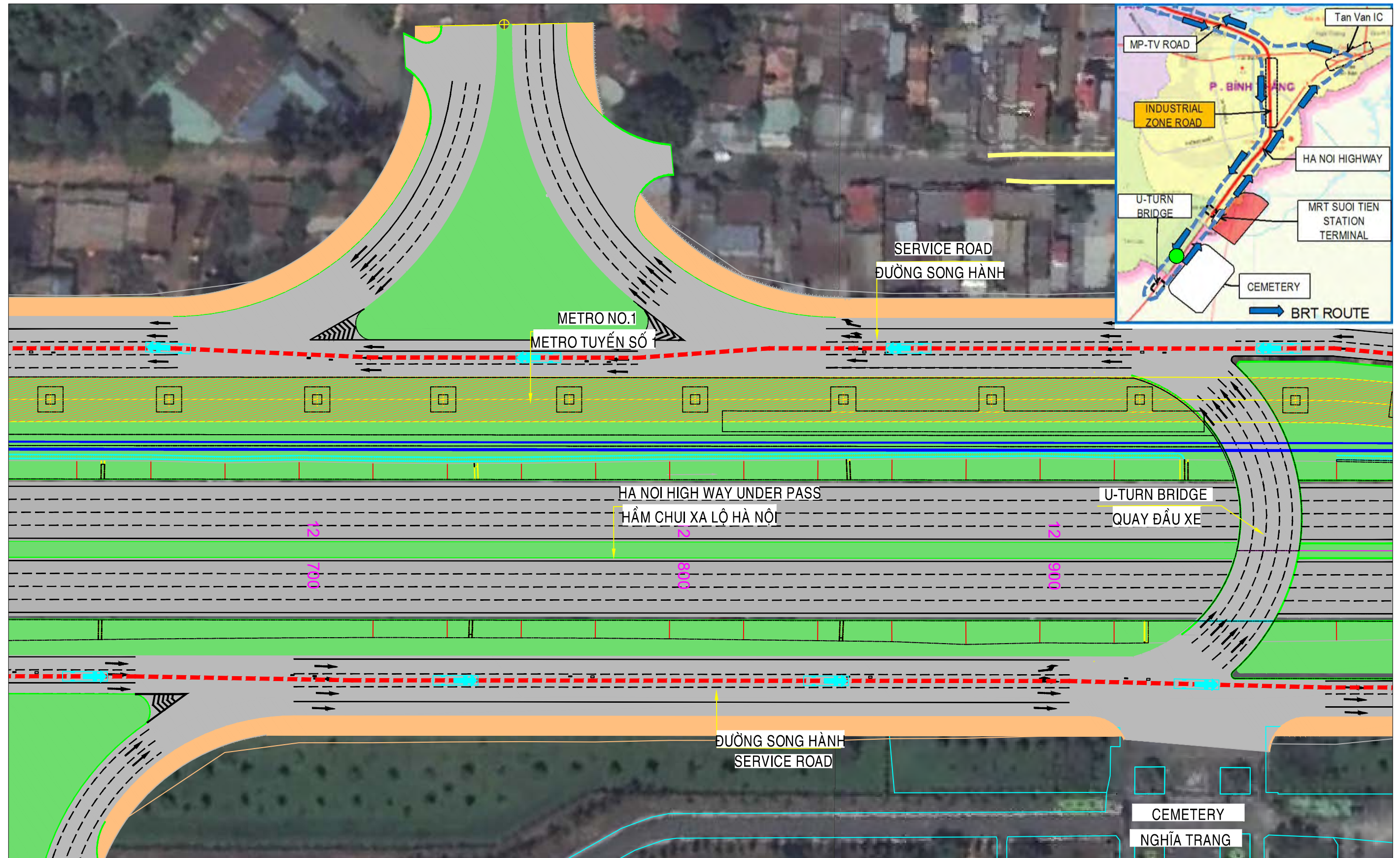
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PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (1/21)	SE1P1-01
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN



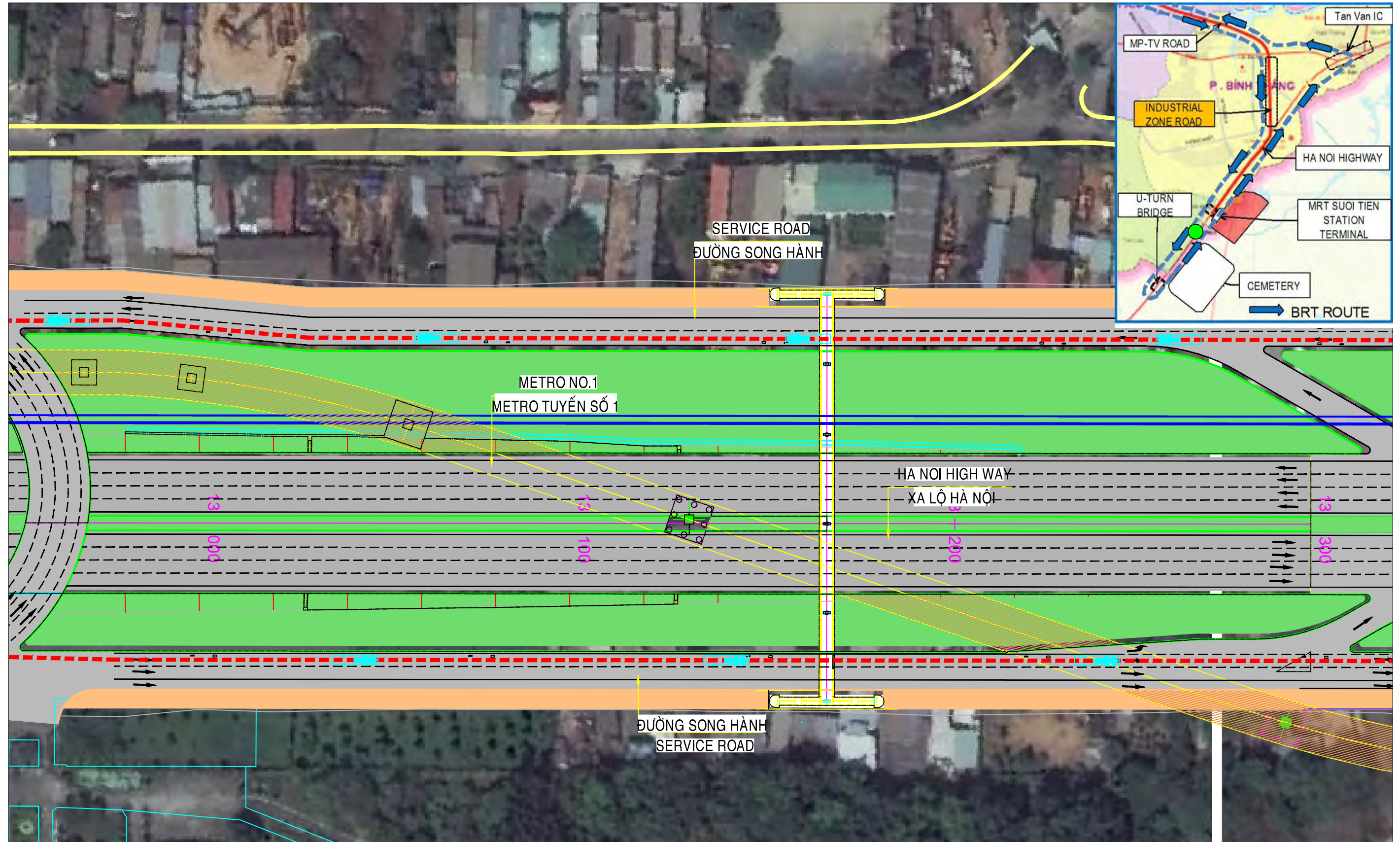
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				SUB-CONSULTANT		SCALE
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← TRAM 2 IC
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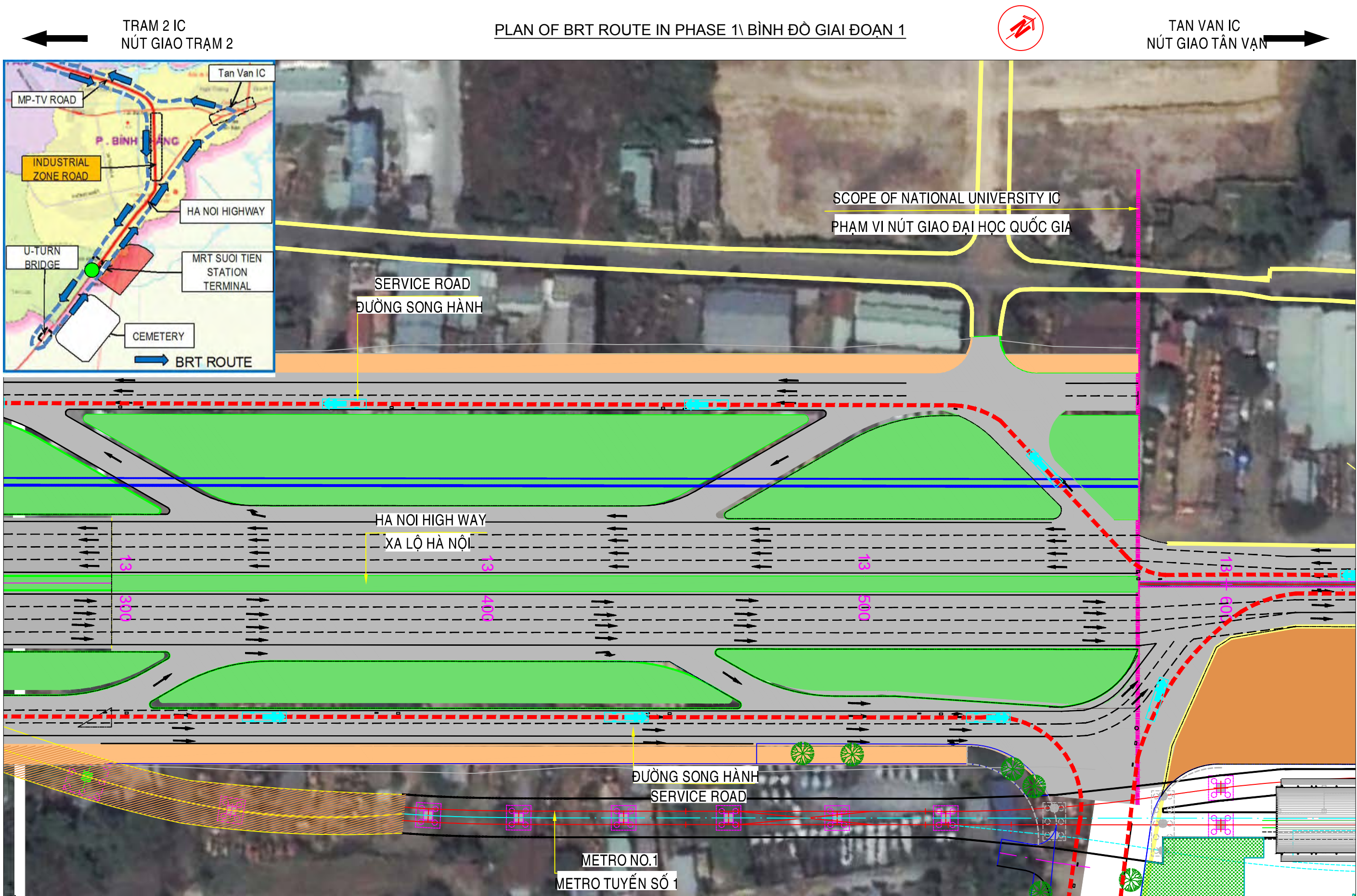
PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN →



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (3/21)	SE1P1-03
				SUB-CONSULTANT		SCALE
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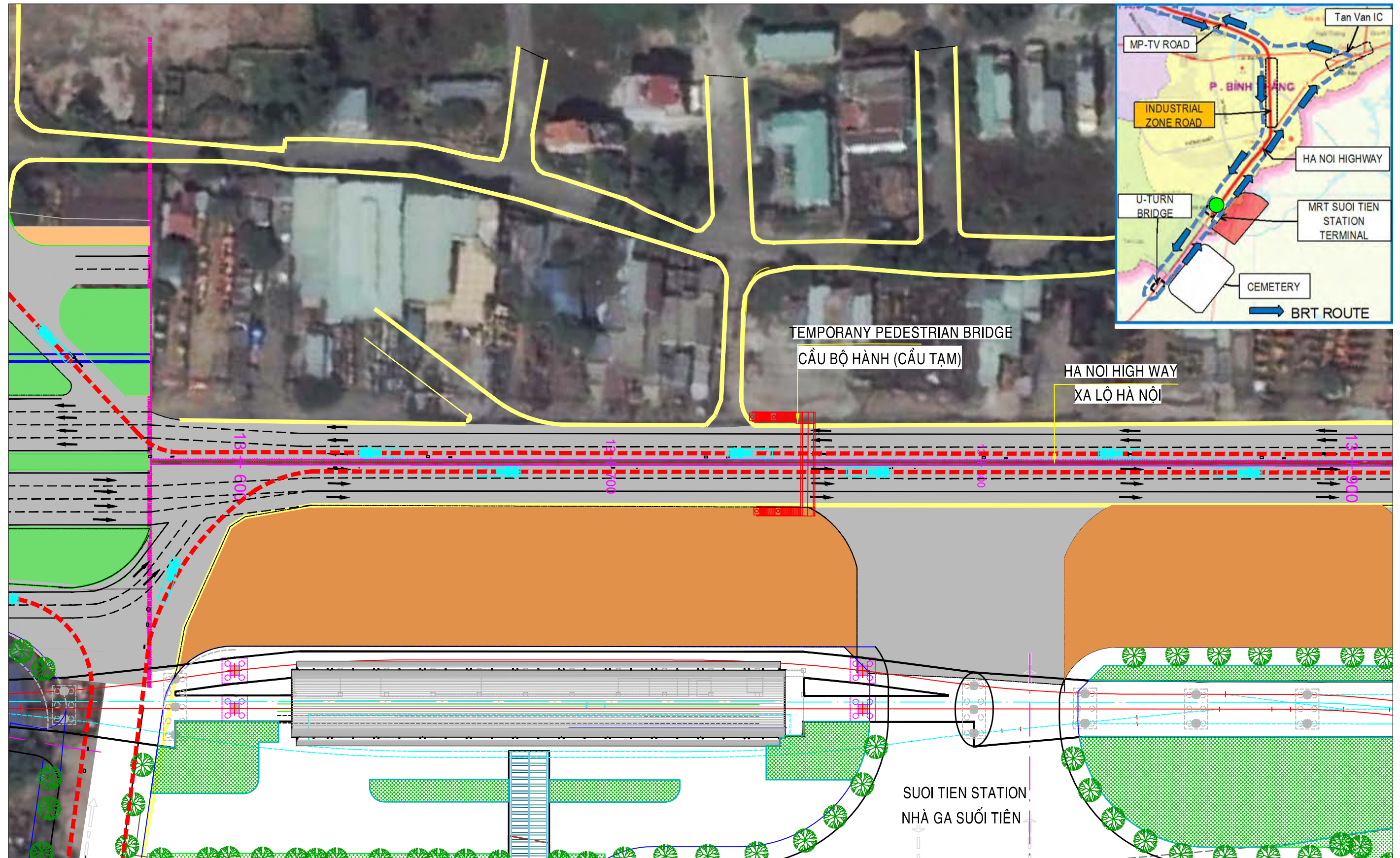
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				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN



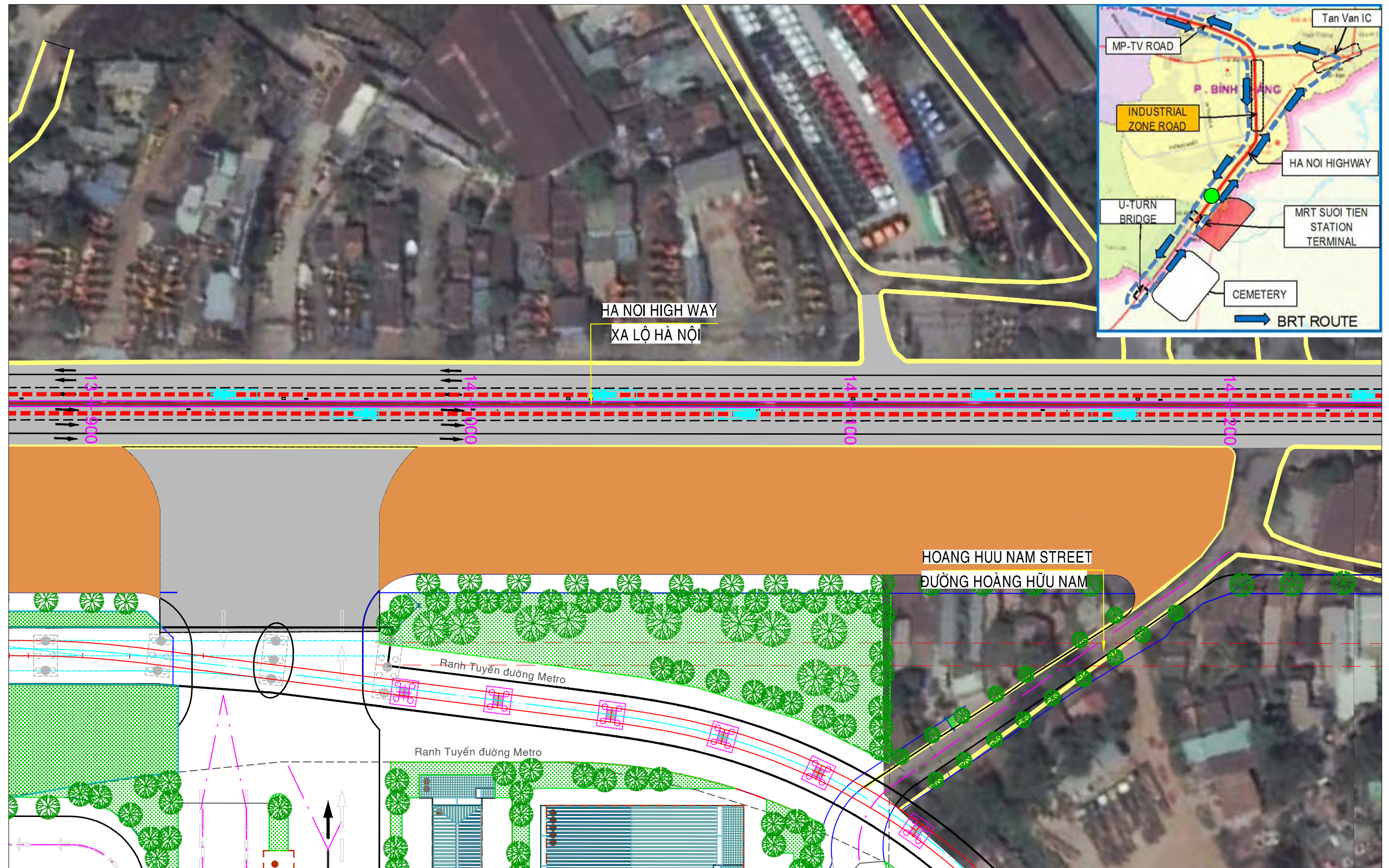
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				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN



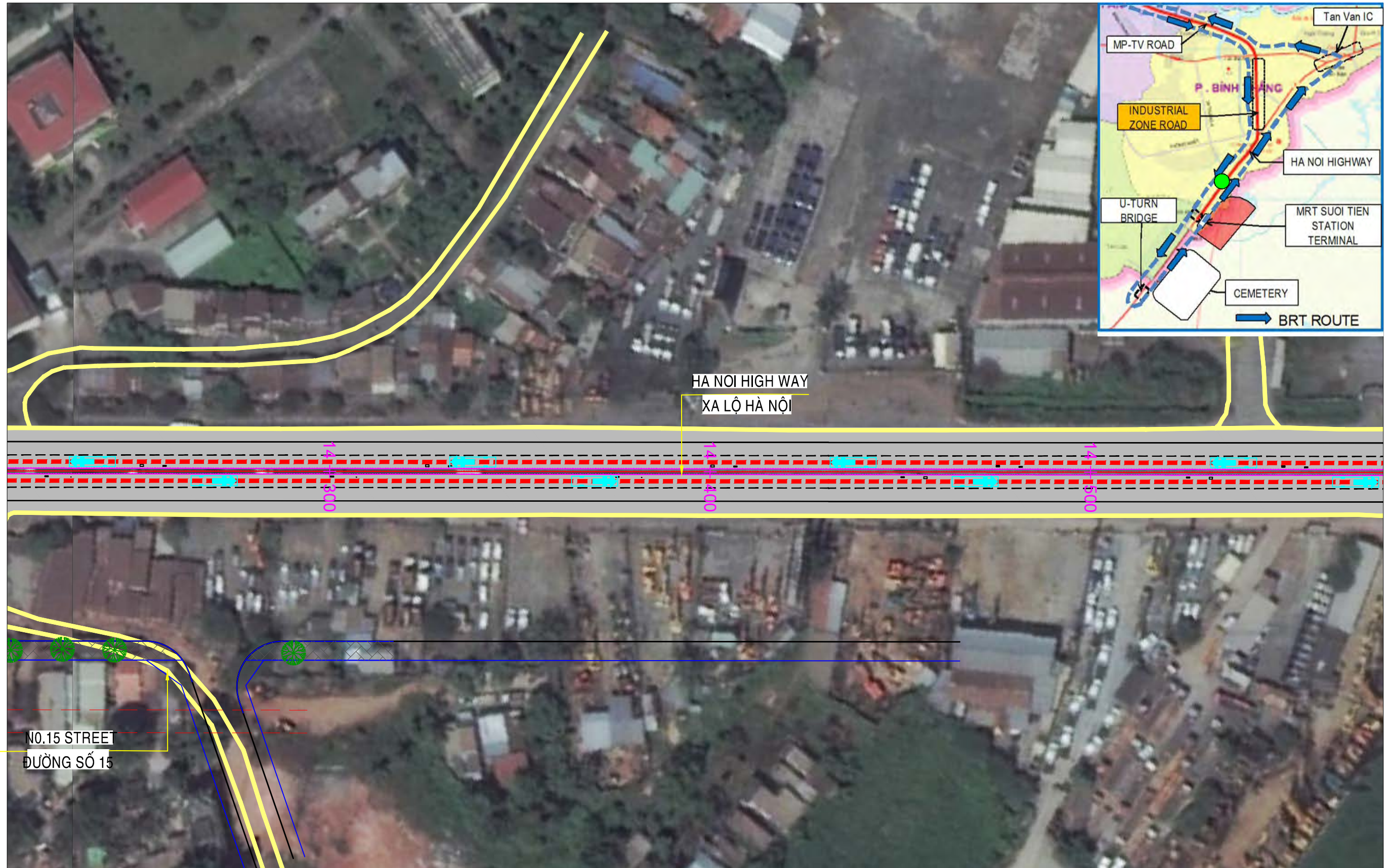
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PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION SUB-CONSULTANT HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (6/21)
					SE1P1-06
					SCALE
					1/1000

← TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN →



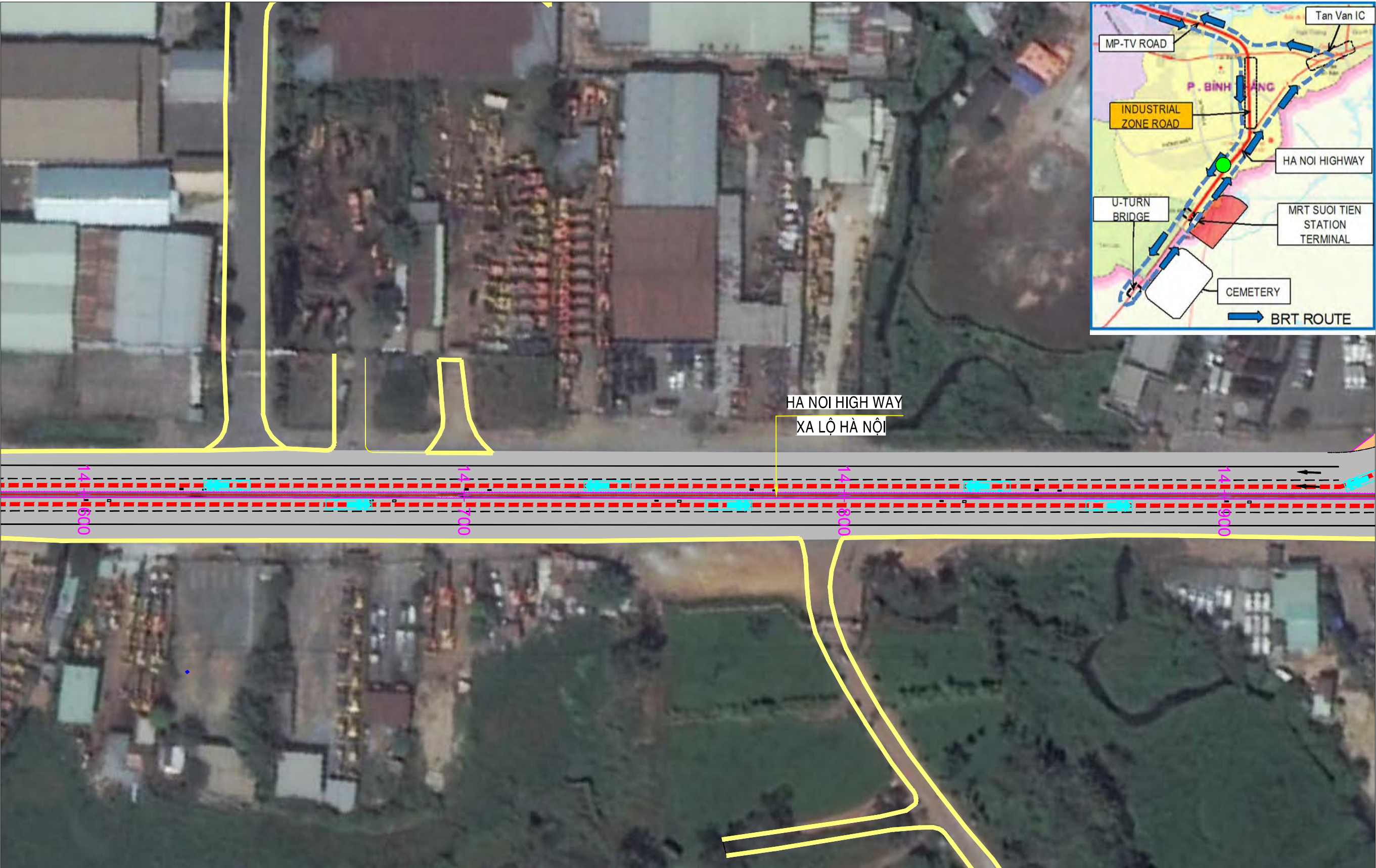
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				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

← TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN →



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (8/21)	SE1P1-08
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN



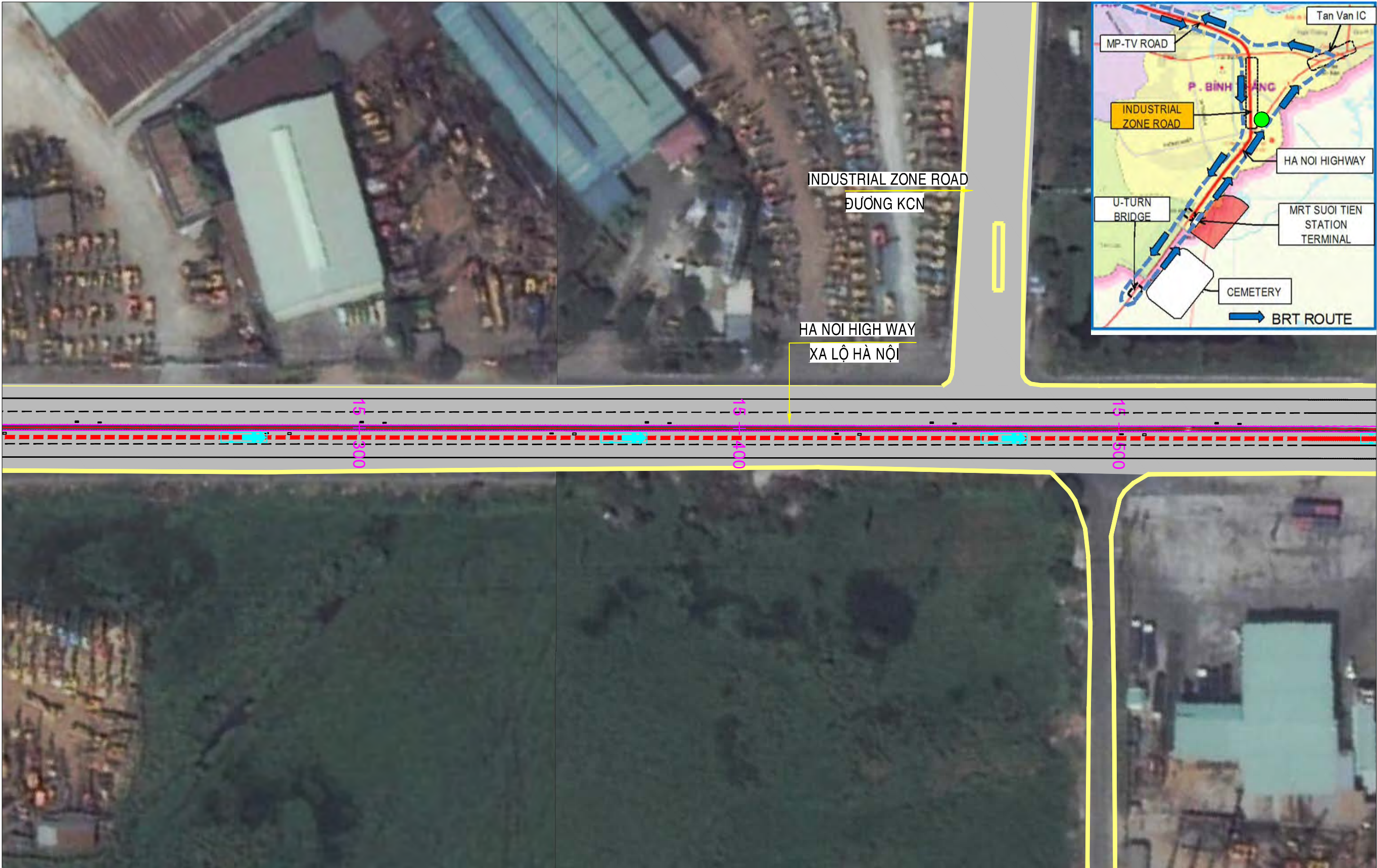
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PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (9/21)	SE1P1-09
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (10/21)	SE1P1-10
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

← TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN →



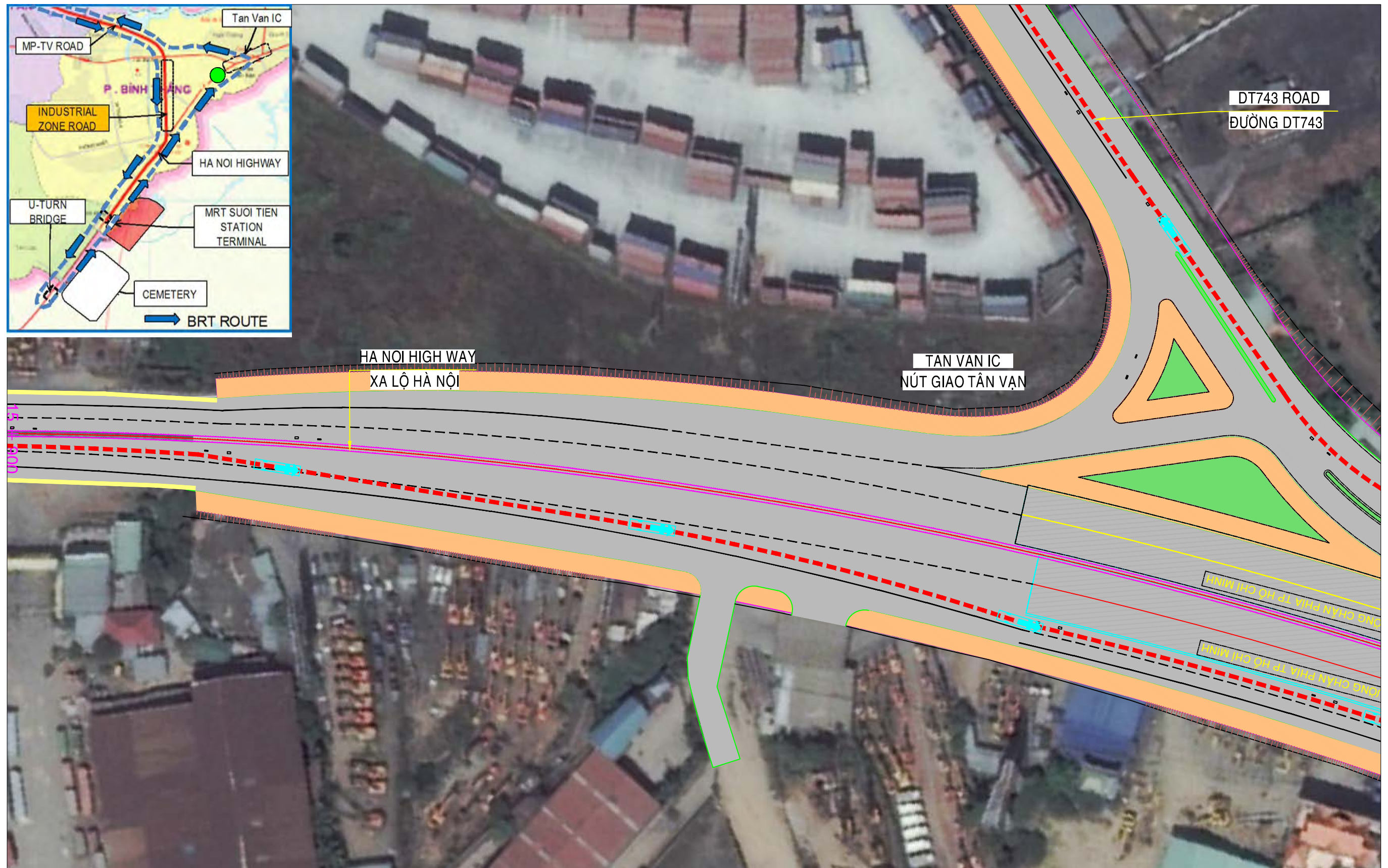
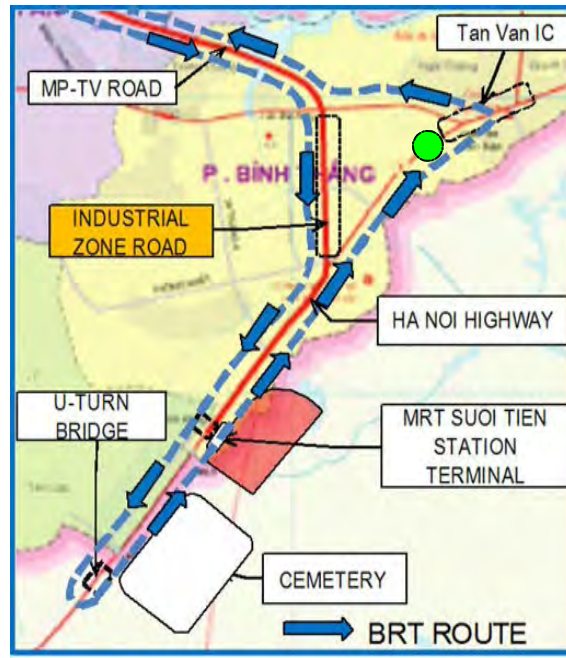
PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (11/21)	SE1P1-11
				SUB-CONSULTANT		SCALE
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← TRAM 2 IC
NÚT GIAO TRẠM 2

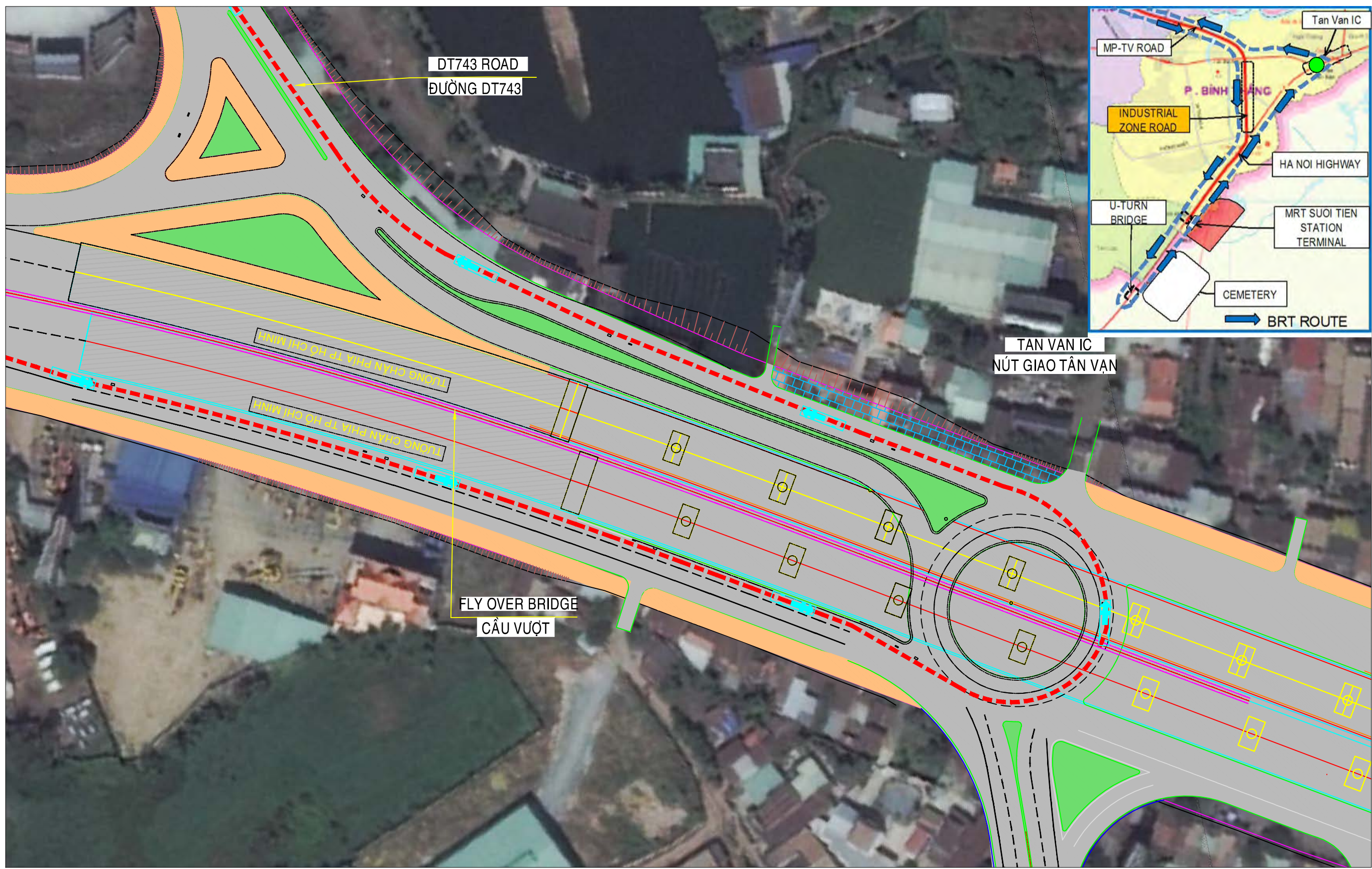
PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TAN VAN IC
NÚT GIAO TÂN VẠN →



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (12/21)	SE1P1-12
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (13/21)	SE1P1-13
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000



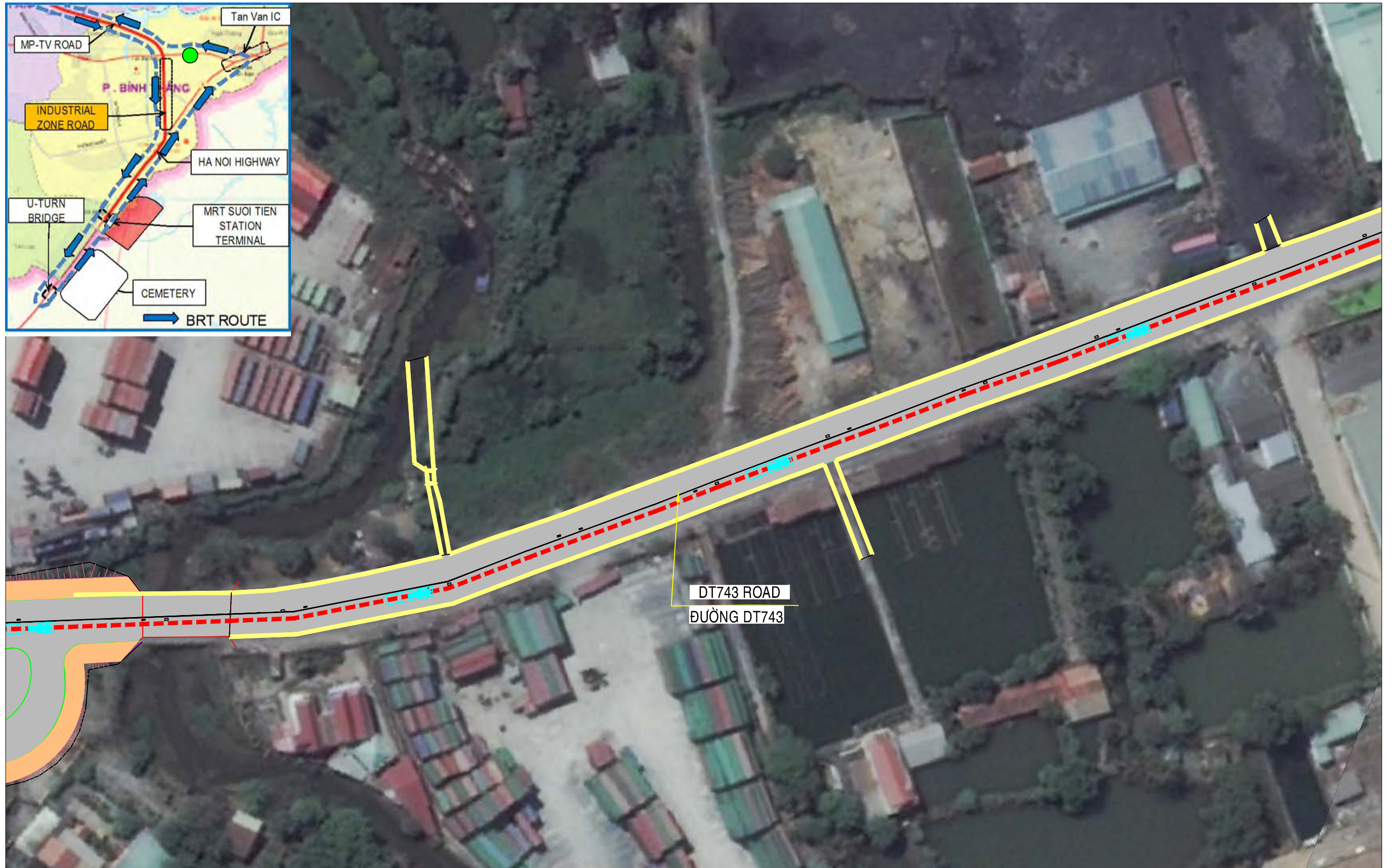
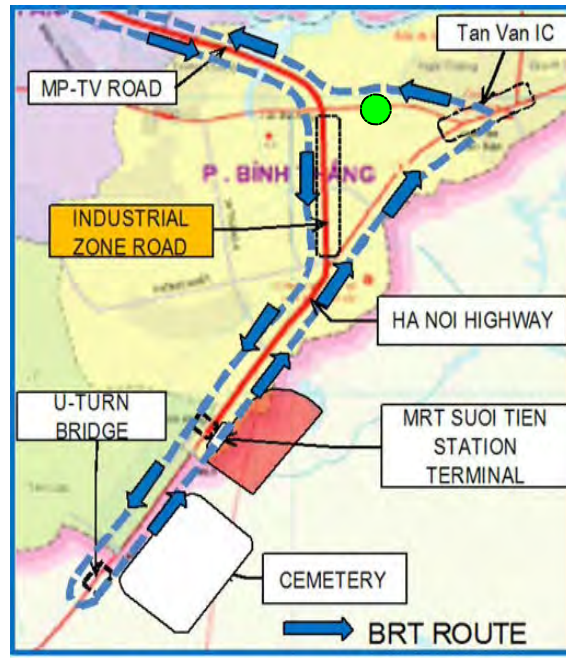
PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (14/21)	SE1P1-14
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TAN VAN IC
NÚT GIAO TÂN VẠN



PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1

BEGINNING POINT OF MY PHUOC -TAN VAN ROAD
ĐIỂM BẮT ĐẦU ĐƯỜNG MỸ PHƯỚC - TÂN VẠN



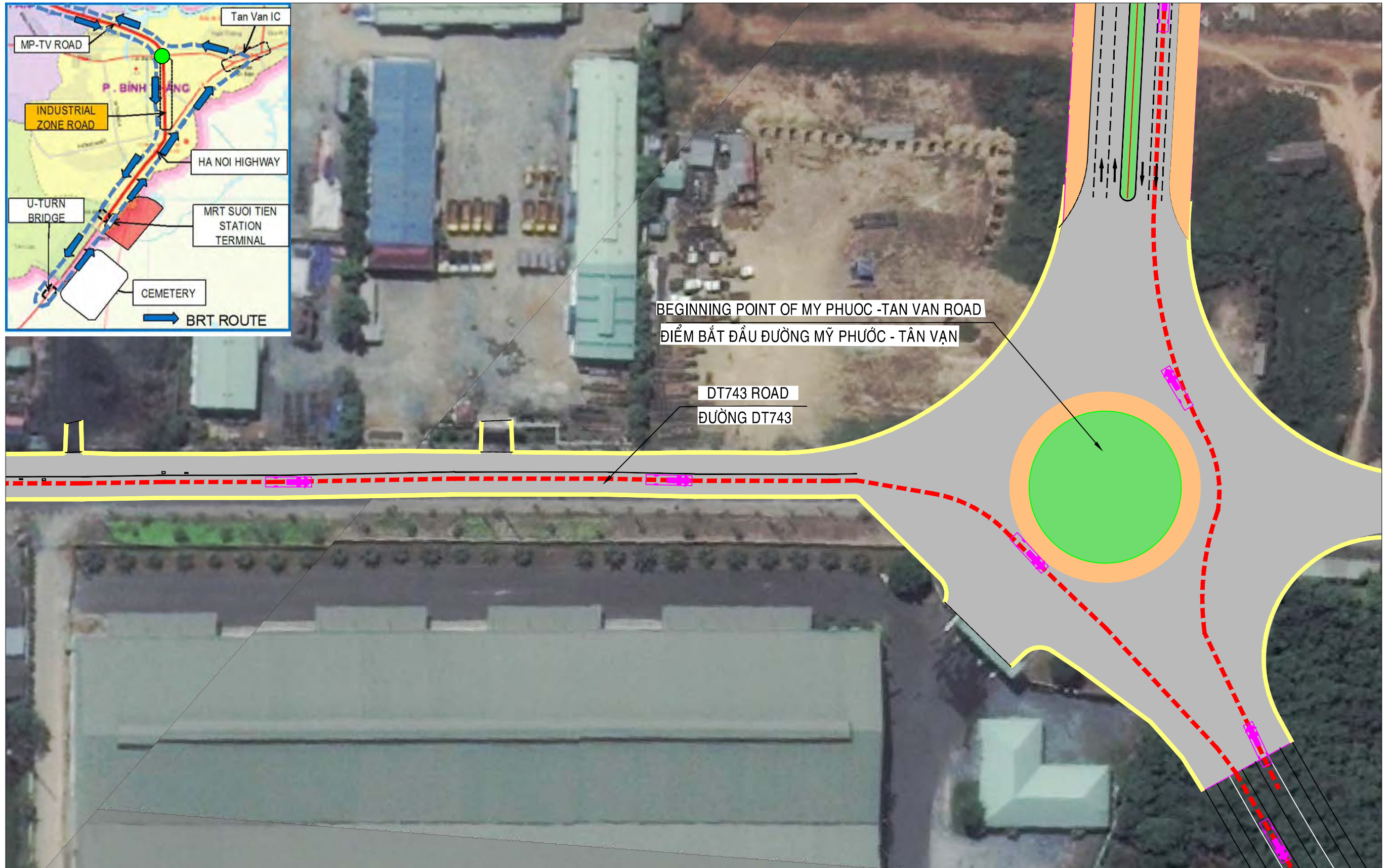
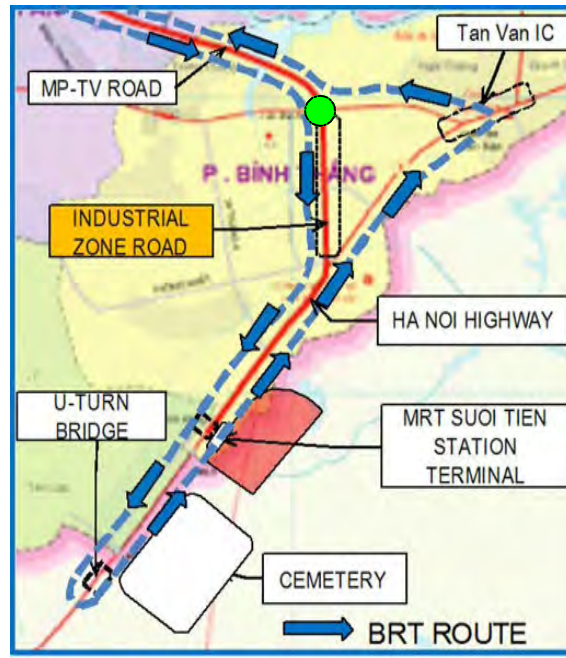
PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (15/21)	SE1P1-15
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

TAN VAN IC
NÚT GIAO TÂN VẠN



PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1

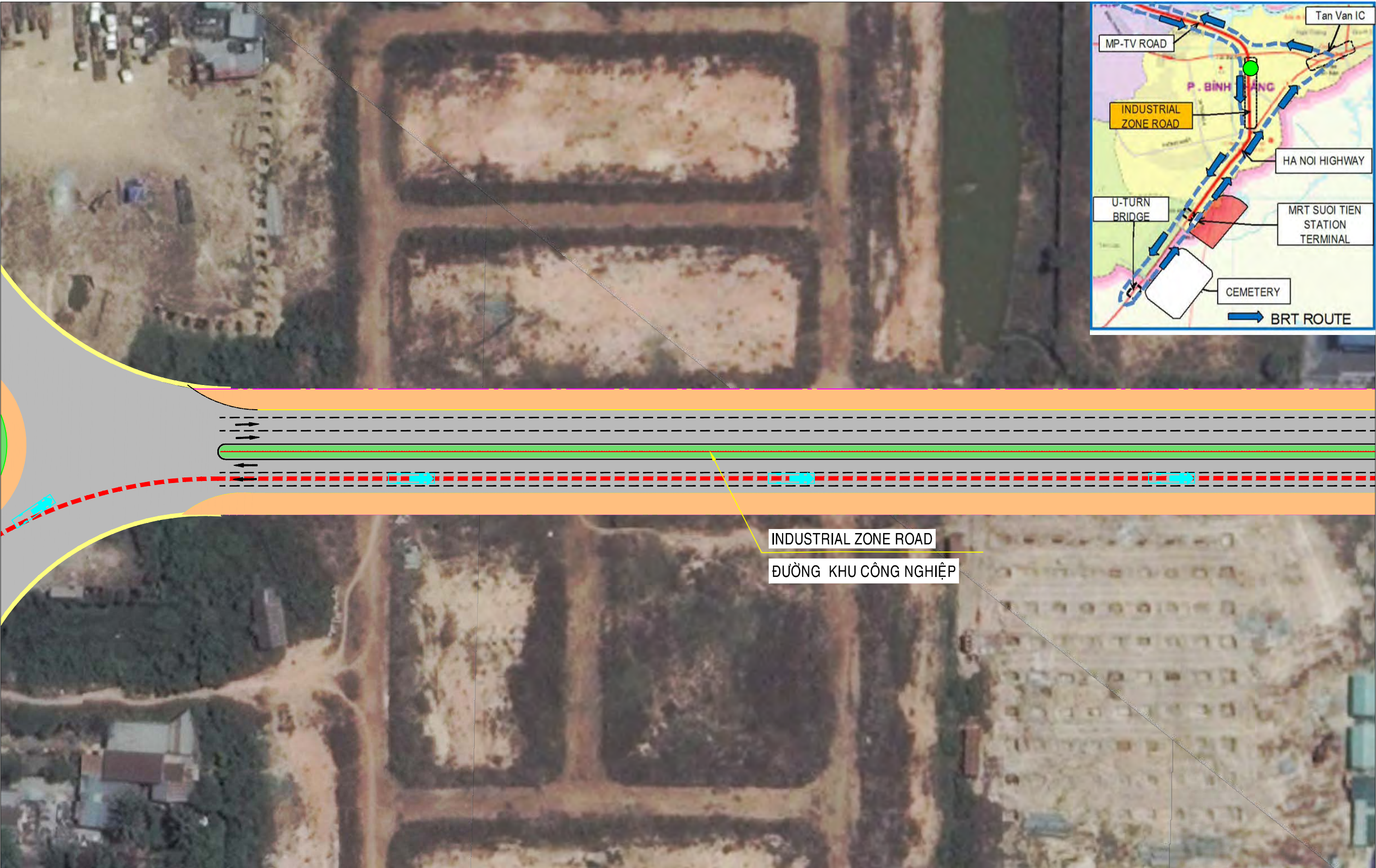
BEGINNING POINT OF MY PHUOC -TAN VAN ROAD
ĐIỂM BẮT ĐẦU ĐƯỜNG MỸ PHƯỚC - TÂN VẠN



BEGINNING POINT OF MY PHUOC -TAN VAN ROAD
ĐIỂM BẮT ĐẦU ĐƯỜNG MỸ PHƯỚC - TÂN VẠN

DT743 ROAD
ĐƯỜNG DT743

PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (16/21)	SE1P1-16
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (17/21)	SE1P1-17
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000

← BEGINNING POINT OF MY PHUOC - TAN VAN ROAD
ĐIỂM BẮT ĐẦU ĐƯỜNG MỸ PHƯỚC - TÂN VẠN

PLAN OF BRT ROUTE IN PHASE 1\ BÌNH ĐỒ GIAI ĐOẠN 1



TRAM 2 IC
NÚT GIAO TRẠM 2 →



PROJECT NAME	CLIENT	COUNTERPART	CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION SUB-CONSULTANT HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (18/21)
					SE1P1-18
					SCALE
					1/1000



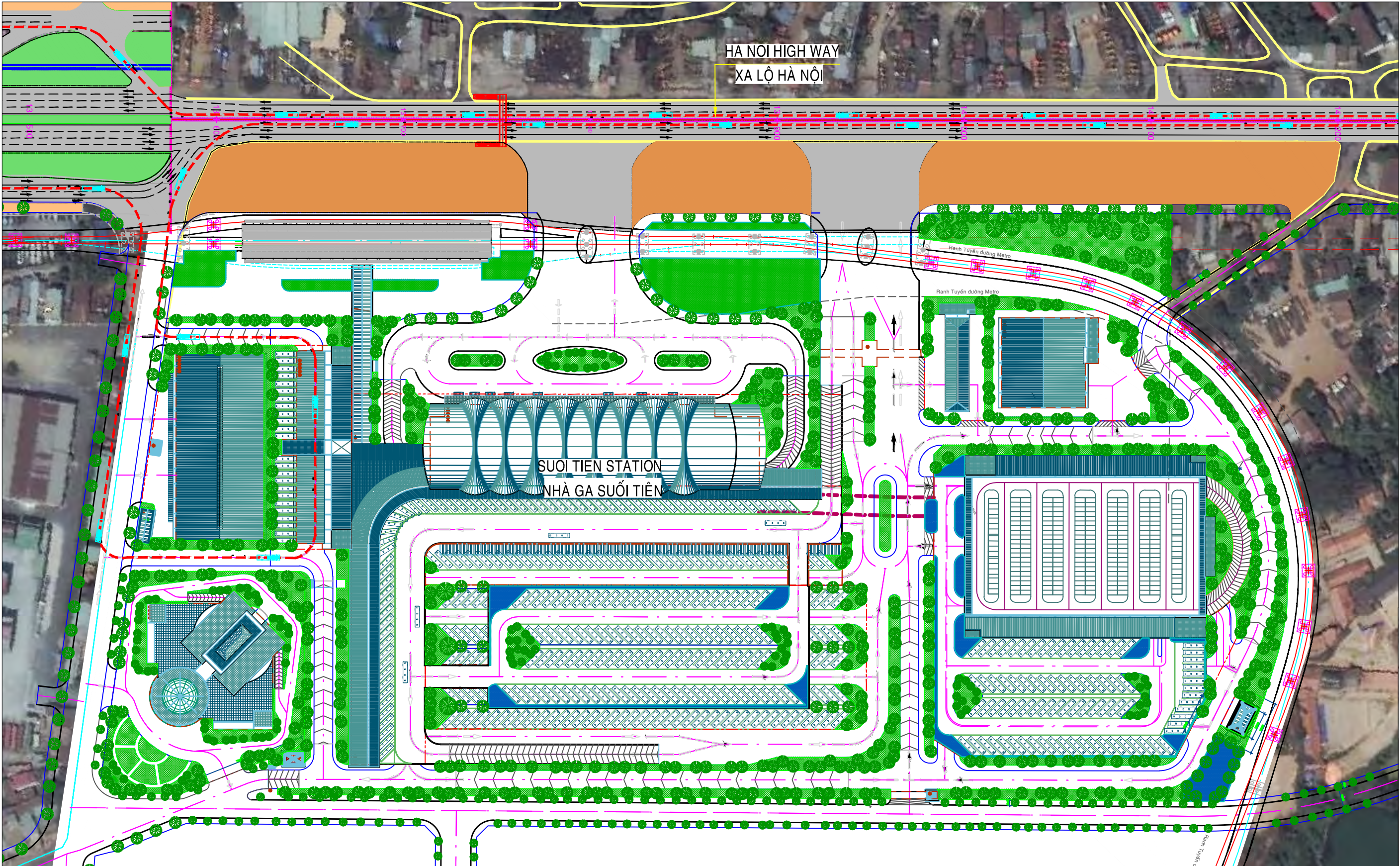
PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE (19/21)	SE1P1- 19
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/1000



TRAM 2 IC
NÚT GIAO TRẠM 2

PLAN OF BRT ALIGHTING AND BOARDING IN PHASE 1\ BÌNH ĐỒ NHÀ GA SUỐI TIỀN GIAI ĐOẠN 1

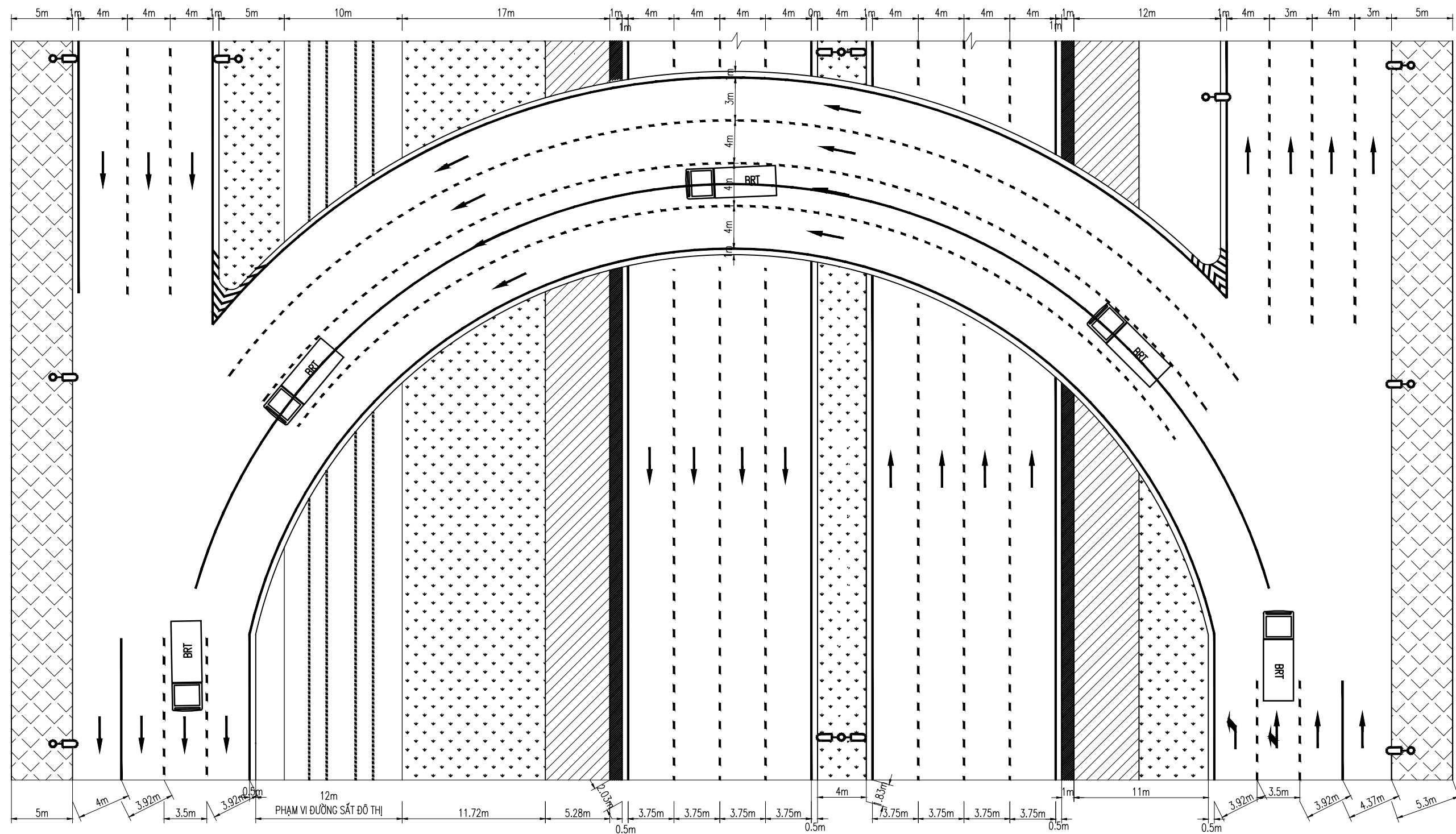
TAN VAN IC
NÚT GIAO TÂN VẠN



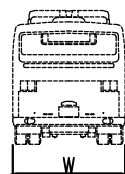
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PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE-1 OF SECTION-1 PLAN OF BRT ROUTE BRT ALIGHTING AND BOARDING (20/21)	SE1P1-20
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/2000

PLAN U-TURN FACILITY(AT NATIONAL UNIVERSITY IC)\BÌNH ĐỒ QUAY ĐẦU XE (TẠI NÚT GIAO ĐHQG)

(SCALE\TỈ LỆ: 1/350)



DIMENSION OF NORMAL BUS



H = 4.1M
W = 2.6M
L = 12.1M
R = 12.8M

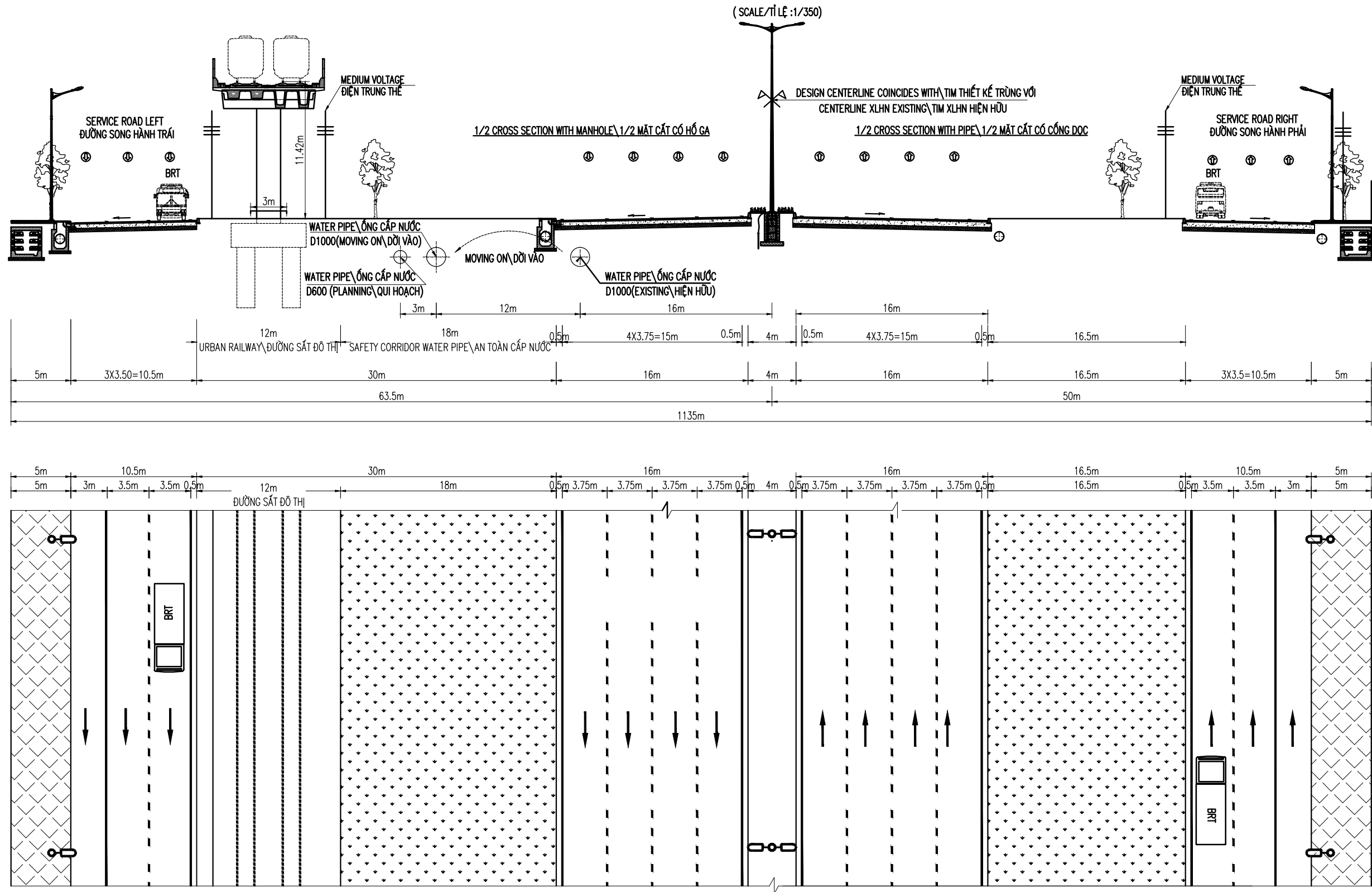
GHI CHÚ:

- ALL DIMENSION ARE MM\KÍCH THƯỚC TRONG BẢN VẼ DÙNG ĐƠN VỊ LÀ MM

PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 PLAN OF BRT ROUTE DETAIL OF BRT ROUTE AT PLAN U-TURN BRIDGE (OF NATIONAL UNIVERSITY IC) (21/21)	SE1P1-21
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/350

TYPICAL CROSS SECTION OF ROAD HA NOI HIGHWAY - UNDERPASS (AT NATIONAL UNIVERSITY IC)

MẶT CẮT NGANG ĐẠI DIỆN XA LỘ HÀ NỘI - PHẠM VI HẦM (TẠI NÚT GIAO ĐHQG)



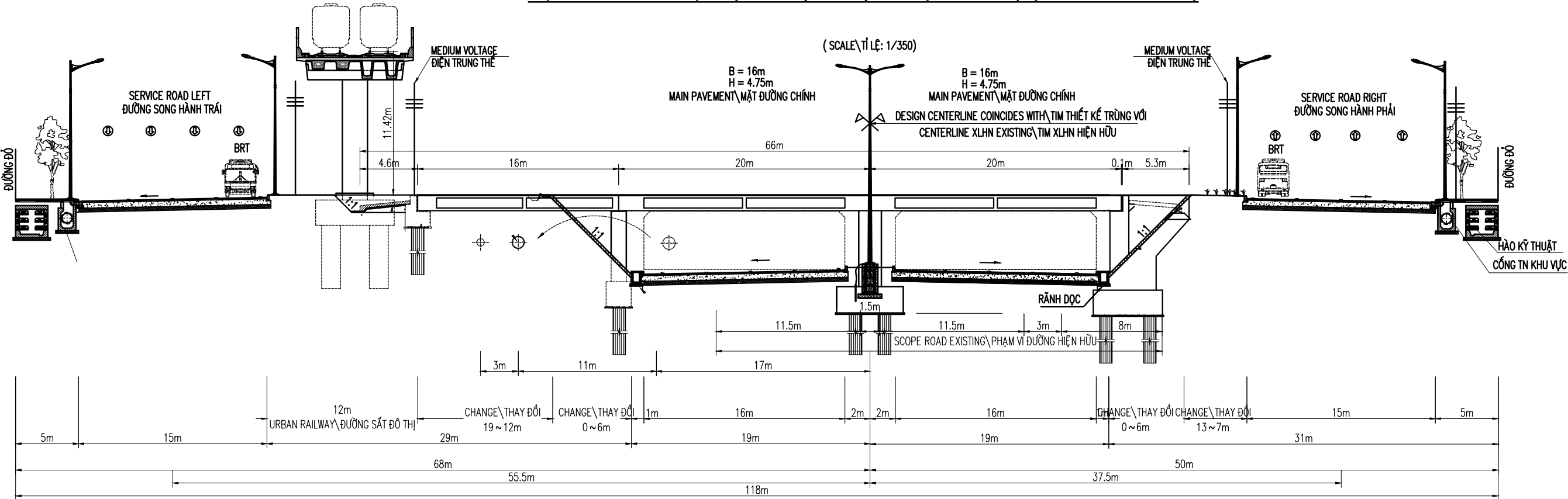
GHI CHÚ:

- ALL DIMENSION ARE MM\KÍCH THƯỚC TRONG BẢN VẼ DÙNG ĐƠN VỊ LÀ MM

PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 TYPICAL CROSS SECTION (1/3)	SE1P1-22
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/350

TYPICAL CROSS SECTION OF ROAD HA NOI HIGHWAY - UNDERPASS(AT NATIONAL UNIVERSITY IC)

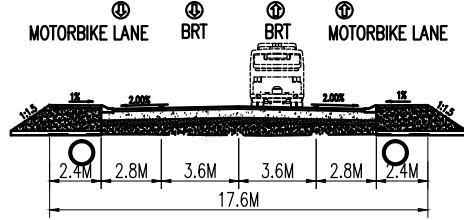
MẶT CẮT NGANG ĐẠI DIỆN XA LỘ HÀ NỘI - PHẠM VI HẦM(TẠI NÚT GIAO ĐHQG)



TYPICAL CROSS SECTION DT743 ROAD

MẶT CẮT NGANG ĐT743

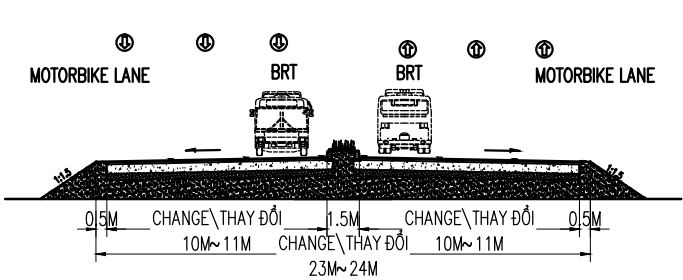
(SCALE/TỈ LỆ :1/350)



TYPICAL CROSS SECTION EXISTING HA NOI HIGHWAY(KM13+600~KM15+900)

MẶT CẮT NGANG XA LỘ HÀ NỘI HIỆN HỮU (KM 13+600~KM15+900)

(SCALE/TỈ LỆ :1/350)



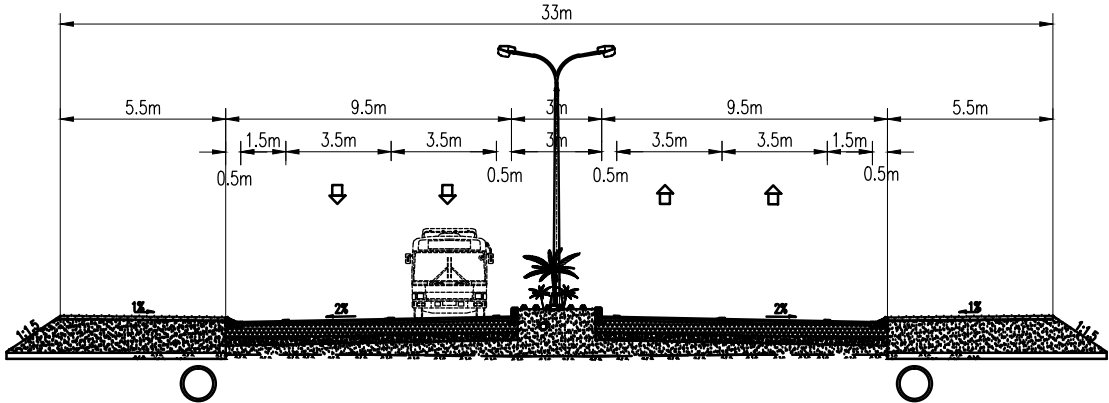
GHI CHÚ:

- ALL DIMENSION ARE MM\KÍCH THƯỚC TRONG BẢN VẼ ĐỀU ĐƠN VỊ LÀ MM

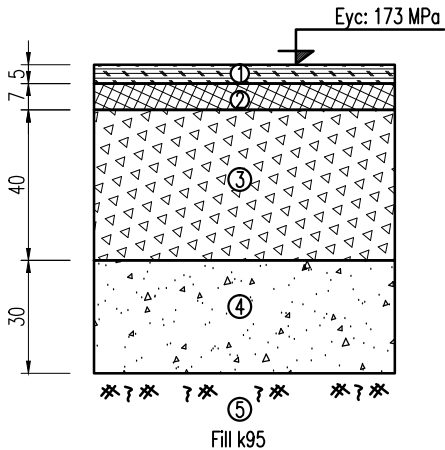
PROJECT NAME	CLIENT	COUNTERPART	CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION SUB-CONSULTANT HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD	SE1P1-23
					SCALE
					1/350

TYPICAL CROSS SECTION INDUSTRIAL ZONE ROAD
MẶT CẮT NGANG KHU CÔNG NGHIỆP

(SCALE/TỈ LỆ :1/200)

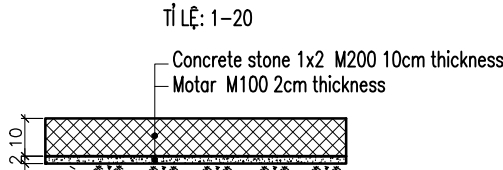


PAVEMENT STRUCTURE

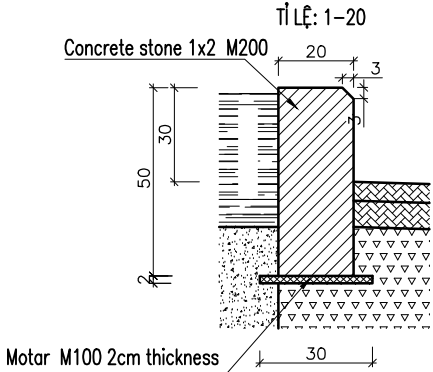


- ① Asphalt surface concrete 5cm thickness
- ② Asphalt binder concrete 7cm thickness
- ③ Graded crushed aggregate class I, 40 cm thickness
- ④ Subbase 30cm thickness
- ⑤ Fill K98 30cm thickness

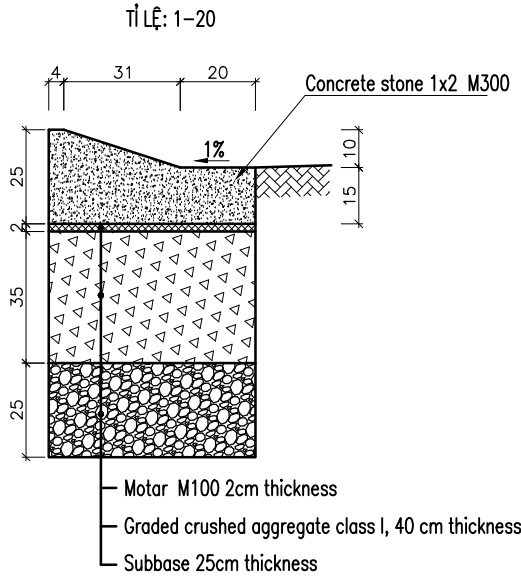
SIDEWALK STRUCTURE



DETAIL MEDIAN CURB



DETAIL CURB

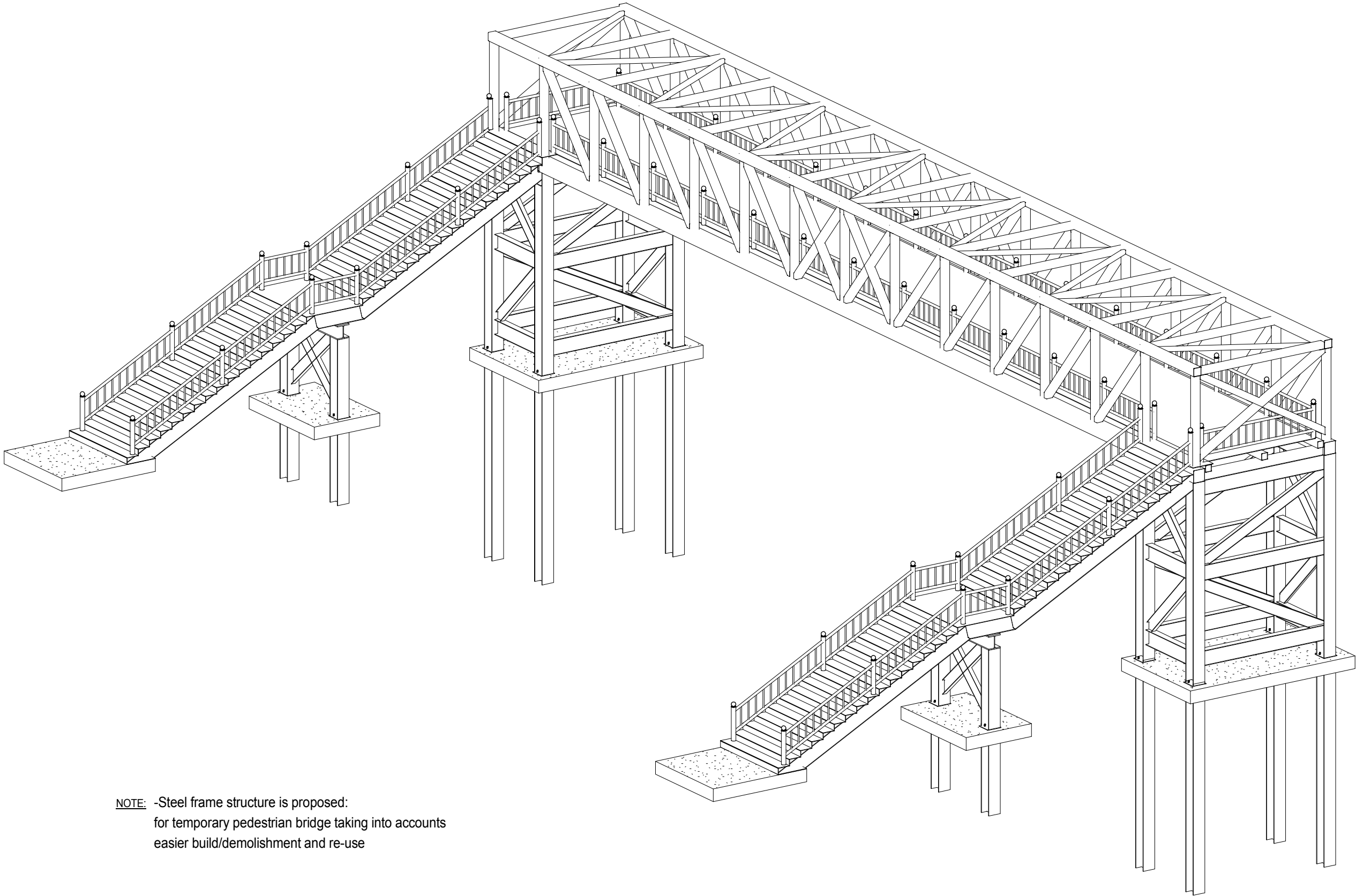


NOTE/GHI CHÚ:

- ALL DIMENSION ARE MM\KÍCH THƯỚC TRONG BẢN VẼ DÙNG ĐƠN VỊ LÀ MM

PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 TYPICAL CROSS SECTION (3/3)	SE1P1-24
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		AS SHOW

GENERAL VIEW OF TEMPORARY PEDESTRIAN BRIDGE AT PHASE -1

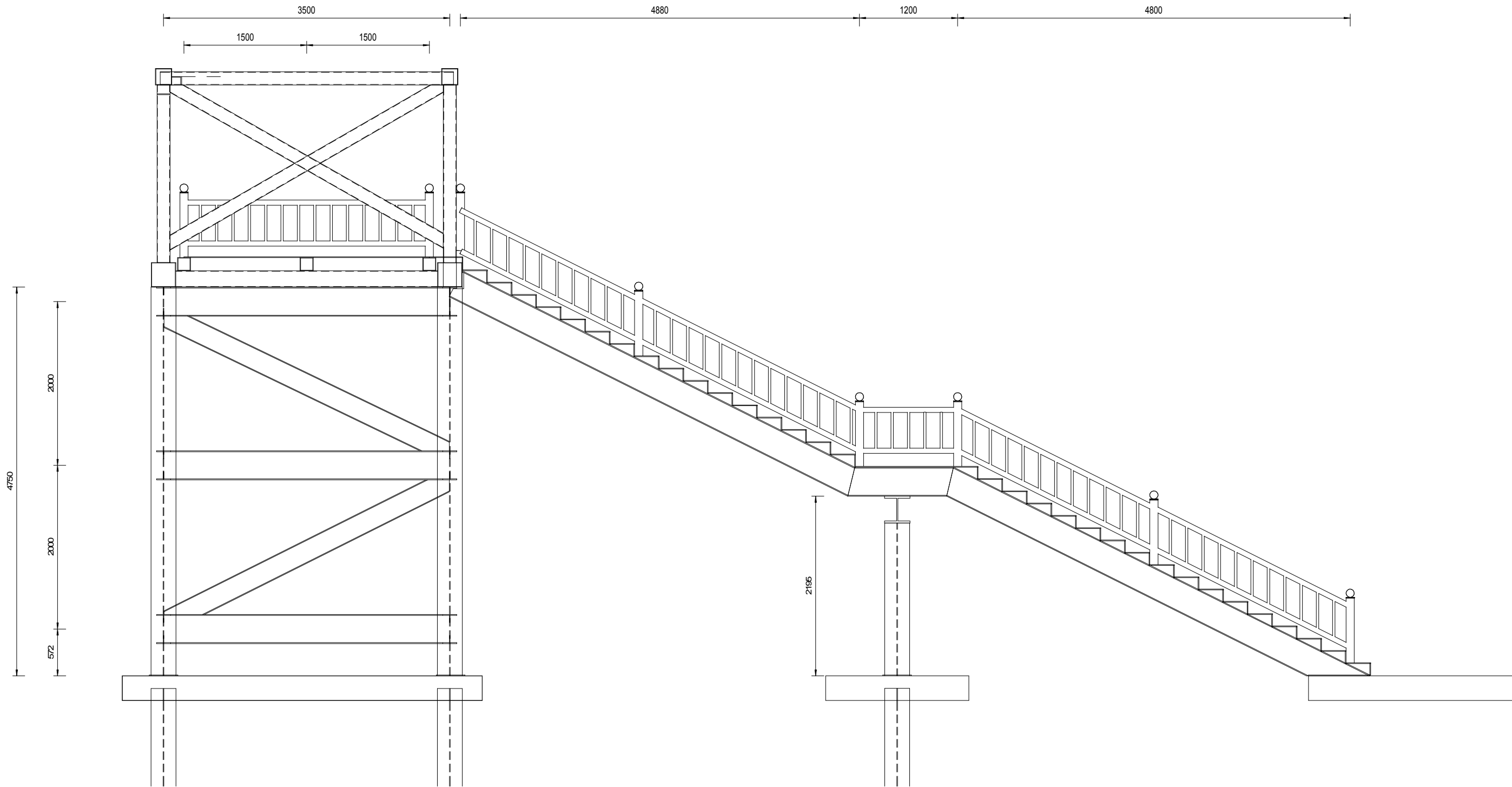


NOTE: -Steel frame structure is proposed:
for temporary pedestrian bridge taking into accounts
easier build/demolishment and re-use

PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 TEMPORARY PEDESTRIAN BRIDGE (1/3)	SE1P1 -25
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/100

CROSS SECTION

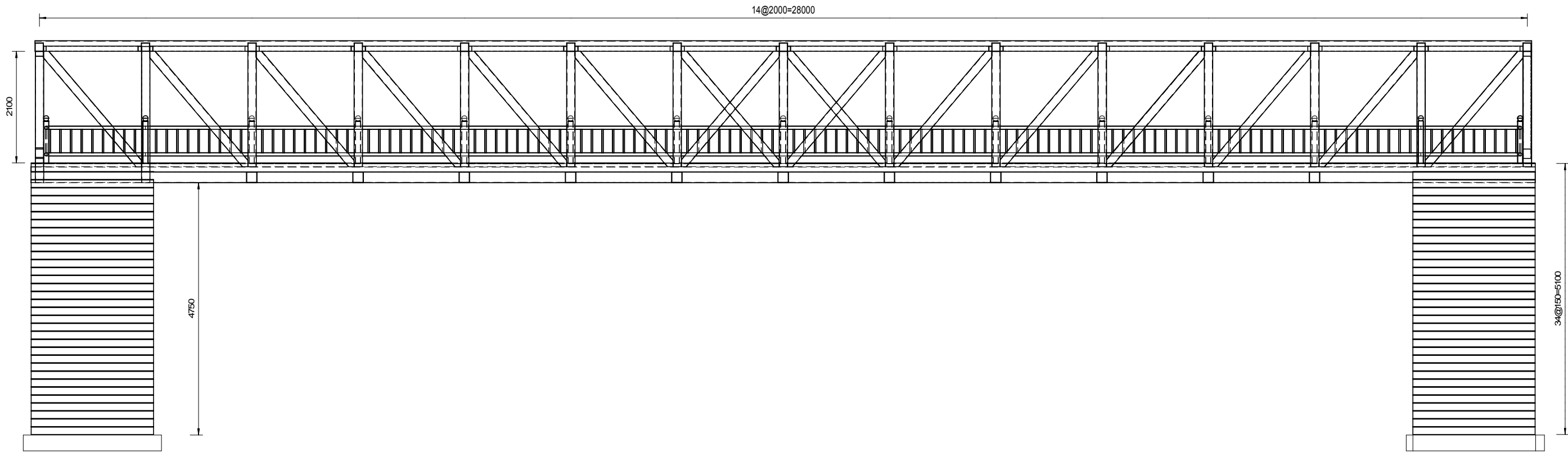
SCALE : 1/80



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 TEMPORARY PEDESTRIAN BRIDGE (2/3)	SE1P1-26
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/80

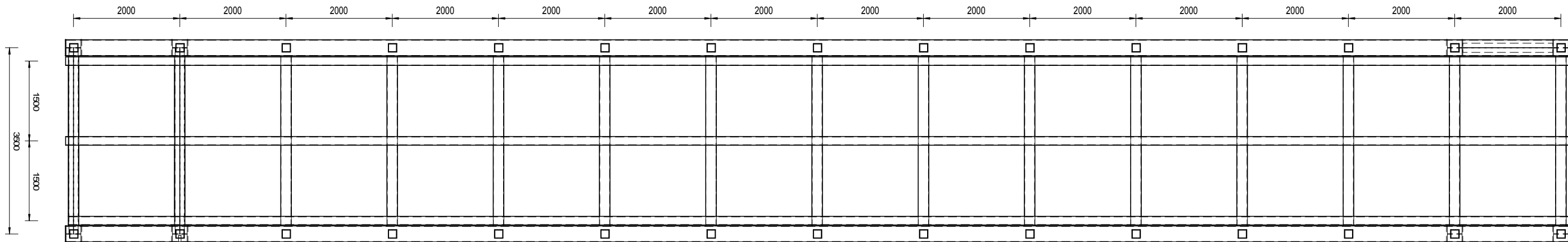
SIDE VIEW

SCALE : 1/80



PLAN VIEW

SCALE : 1/80



PROJECT NAME	CLIENT	COUNTERPART		CONSULTANT	DWG TITLE	DWG No.
PREPARATORY SURVEY ON TRANSIT ORIENTED DEVELOPMENT (URBAN DEVELOPMENT AROUND PUBLIC TRANSPORT HUB) PROJECT AND BRT DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	HO CHI MINH CITY PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	BINH DUONG PROVINCE PEOPLE'S COMMITTEE DEPARTMENT OF TRANSPORT	TOKYU CORPORATION NIPPON KOEI CO.,LTD. NIKKEN SEKKEI RESEARCH INSTITUTE KRI INTERNATIONAL CORPORATION	PHASE -1 OF SECTION -1 TEMPORARY PEDESTRIAN BRIDGE (3/3)	SE1P1- 27
				SUB-CONSULTANT		SCALE
				HUNG NGHIEP CONSTRUCTION CONSULTING CO., LTD		1/80