การรถไฟแห่งประเทศไทย
กระทรวงคมนาคม
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

โครงการรถไฟความเร็วสูงเชื่อมสามสนามบิน
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

เอกสารเพิ่มเติม ชุดที่ 3
ADDENDUM, THIRD BATCH
(VOLUME 4 : CONCEPTUAL DRAWINGS)
(FOR INFORMATION ONLY)

AEC Sasin

Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

26 OCTOBER 2018

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26 OCTOBER 2018

TRACK ALIGNMENT

LIST OF DRAWINGS

SHEET NO.	ITEM	DWG.NO.	SUPERSEDED
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061	PLAN & PROFILE STA. 182+000.000 – STA. 185+500.000	AL-061-a	AL-061
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075	PLAN & PROFILE STA. 0+500.000 – STA. 1+200.000	AL-075-a	AL-075
076	PLAN & PROFILE STA. 1+200.000 – STA. 1+900.000	AL-076-a	AL-076
077	PLAN & PROFILE STA. 1+900.000 – STA. 2+600.000	AL-077-a	AL-077
078	PLAN & PROFILE STA. 2+600.000 – STA. 3+300.000	AL-078-a	AL-078
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081	PLAN & PROFILE STA. 4+700.000 – STA. 5+259.168	AL-081-a	AL-081
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090	PLAN & PROFILE STA. 0+700.000 – STA. 0+900.000	AL-090-a	AL-090
091	PLAN & PROFILE STA. 0+900.000 – STA. 1+250.000	AL-091-a	AL-091
092	PLAN & PROFILE STA. 1+250.000 – STA. 1+600.000	AL-092-a	AL-092
093	PLAN & PROFILE STA. 1+600.000 – STA. 1+950.000	AL-093-a	AL-093
094	PLAN & PROFILE STA. 1+950.000 – STA. 2+300.000	AL-094-a	AL-094
095	PLAN & PROFILE STA. 2+300.000 – STA. 2+650.000	AL-095-a	AL-095
096	PLAN & PROFILE STA. 2+650.000 – STA. 3+000.000	AL-096-a	AL-096
097	PLAN & PROFILE STA. 3+000.000 – STA. 3+350.000	AL-097-a	AL-097
098	PLAN & PROFILE STA. 3+350.000 – STA. 3+700.000	AL-098-a	AL-098
099	PLAN & PROFILE STA. 3+700.000 – STA. 4+050.000	AL-099-a	AL-099
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LIST OF DRAWINGS

SHEET NO.	ITEM	DWG.NO.	SUPERSEDED
	CO-CIVIL WORKS FOR BANG SUE-DON MUEANG SECTION		
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120	PLAN & PROFILE STA. 7+600.000 – STA. 8+300.000	AL-120-a	AL-120
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122	PLAN & PROFILE STA. 9+000.000 – STA. 9+700.000	AL-122-a	AL-122
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126	PLAN & PROFILE STA. 11+800.000 – STA. 12+500.000	AL-126-a	AL-126
127	PLAN & PROFILE STA. 12+500.000 – STA. 13+200.000	AL-127-a	AL-127
128	PLAN & PROFILE STA. 13+200.000 – STA. 13+900.000	AL-128-a	AL-128
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130	PLAN & PROFILE STA. 14+600.000 – STA. 15+300.000	AL-130-a	AL-130
131	PLAN & PROFILE STA. 15+300.000 – STA. 16+000.000	AL-131-a	AL-131
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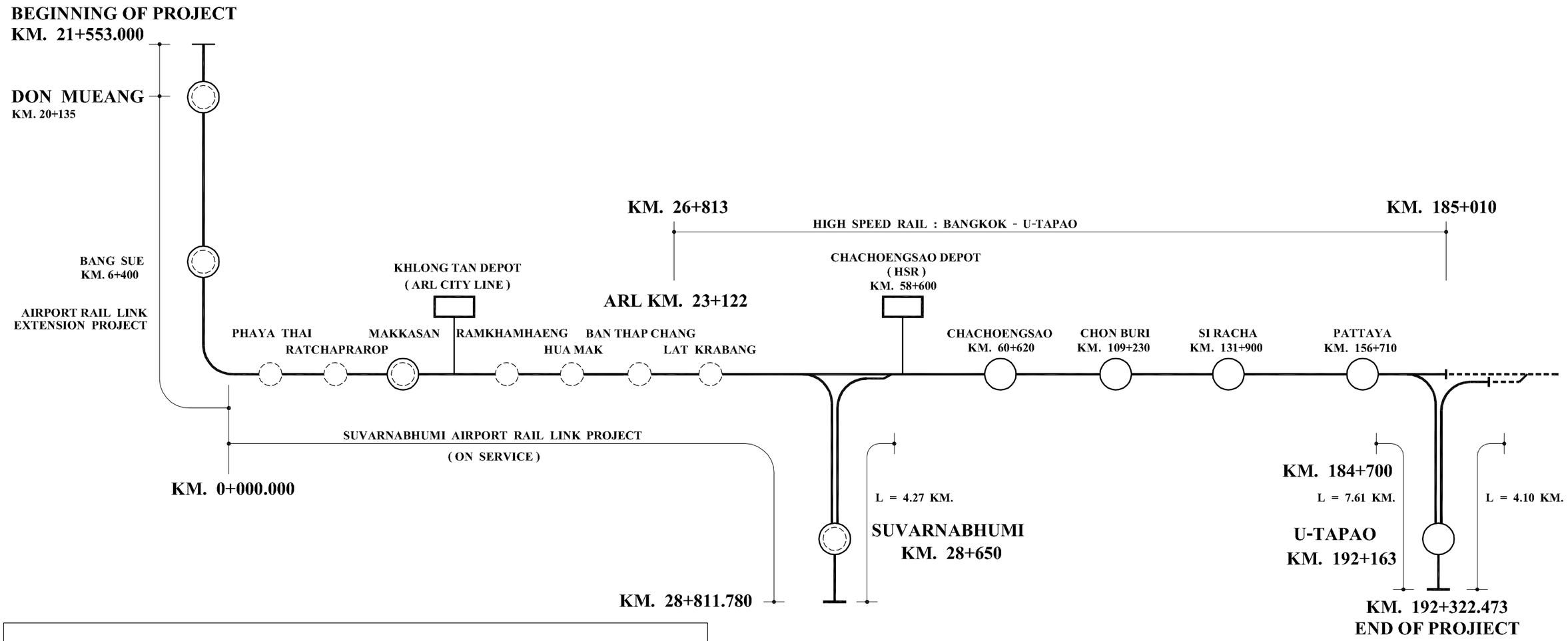
133	PLAN & PROFILE STA. 16+700.000 – STA. 17+400.000	AL-133-a	AL-133
134	PLAN & PROFILE STA. 17+400.000 – STA. 18+100.000	AL-134-a	AL-134
135	PLAN & PROFILE STA. 18+100.000 – STA. 18+800.000	AL-135-a	AL-135
136	PLAN & PROFILE STA. 18+800.000 – STA. 19+500.000	AL-136-a	AL-136
137	PLAN & PROFILE STA. 19+500.000 – STA. 20+200.000	AL-137-a	AL-137
138	PLAN & PROFILE STA. 20+200.000 – STA. 20+900.000	AL-138-a	AL-138
139	PLAN & PROFILE STA. 20+900.000 – STA. 21+553.060	AL-139-a	AL-139



DON MUEANG - PHAYA THAI = 21.55 km.
(AIRPORT RAIL LINK EXTENSION PROJECT)

PHAYA THAI - SUVARNABHUMI = 28.81 km.
(AIRPORT RAIL LINK PROJECT)

LAT KRABANG - U-TAPAO = 165.51 km.
(HIGH SPEED RAIL : BANGKOK - U-TAPAO PROJECT)

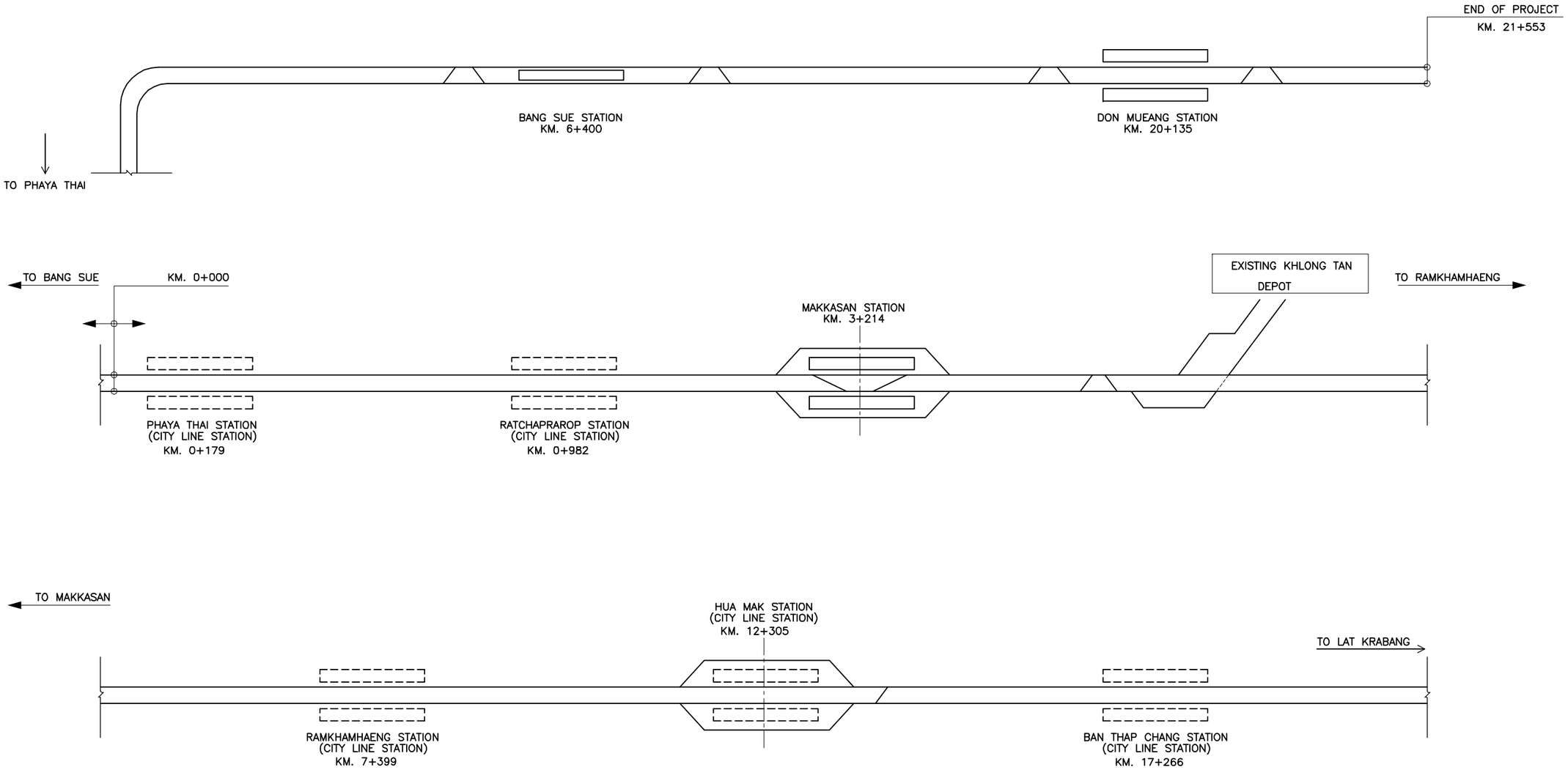
SUVARNABHUMI OUTBOUND = 4.27 km.

TOTAL LENGTH = 220.14 km.

SYMBOL

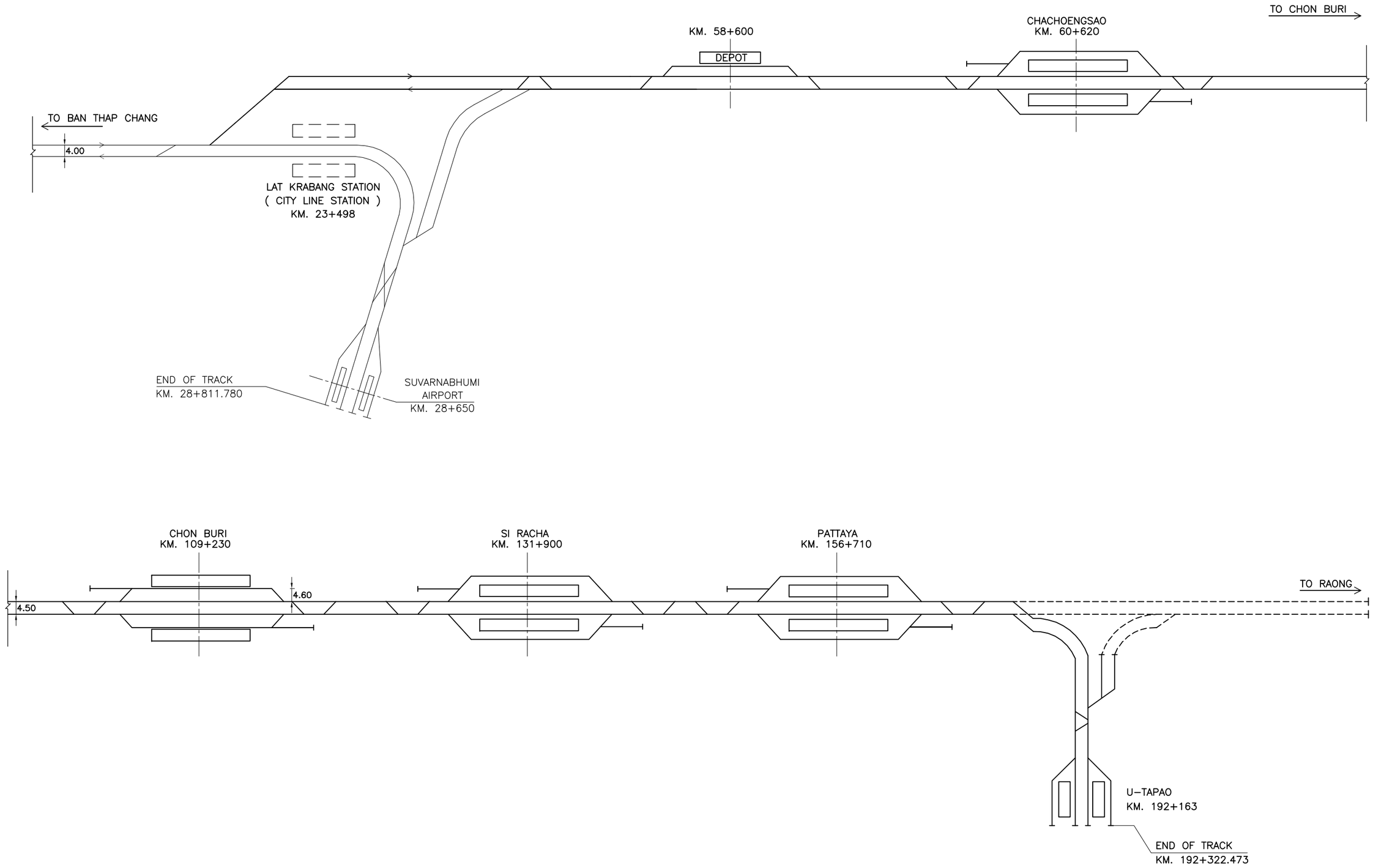
- CITY LINE STATION
- HSR. STATION
- HSR. & CITY LINE JOINT STATION
- DEPOT
- --------- FUTURE TRACK

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SCHEMATIC TRACK LAYOUT 1 OF 3	DATE : OCTOBER 2018 DRAWING NO. : G-002-a	SCALE : NONE SHEET NO. : 002



D:\AECV1462-PPTA\00 ADDENDUM OCTOBER 2018\01-PHAYA THAI-DON MUEANG-SUVAR-LAT KRA_001-061\00-G-003-004-A.DWG Plot date: พฤ. 24/10/2561 2:10 PM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SCHEMATIC TRACK LAYOUT 2 OF 3	DATE : OCTOBER 2018	SCALE : NONE
				DRAWING NO. : G-003-a	SHEET NO. : 003

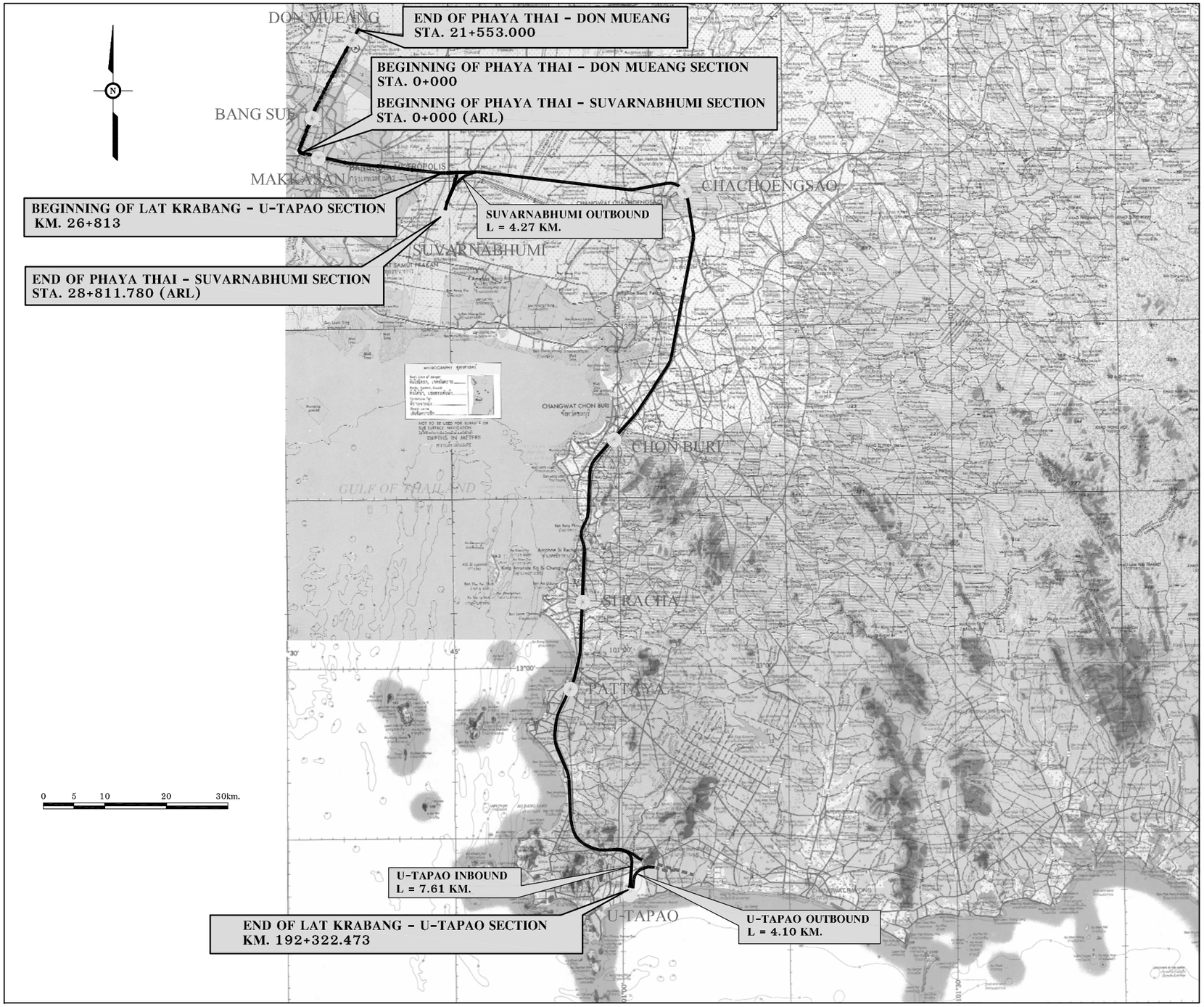


STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SCHEMATIC TRACK LAYOUT 3 OF 3	DATE : OCTOBER 2018	SCALE : NONE
				DRAWING NO. : G-004-a	SHEET NO. : 004

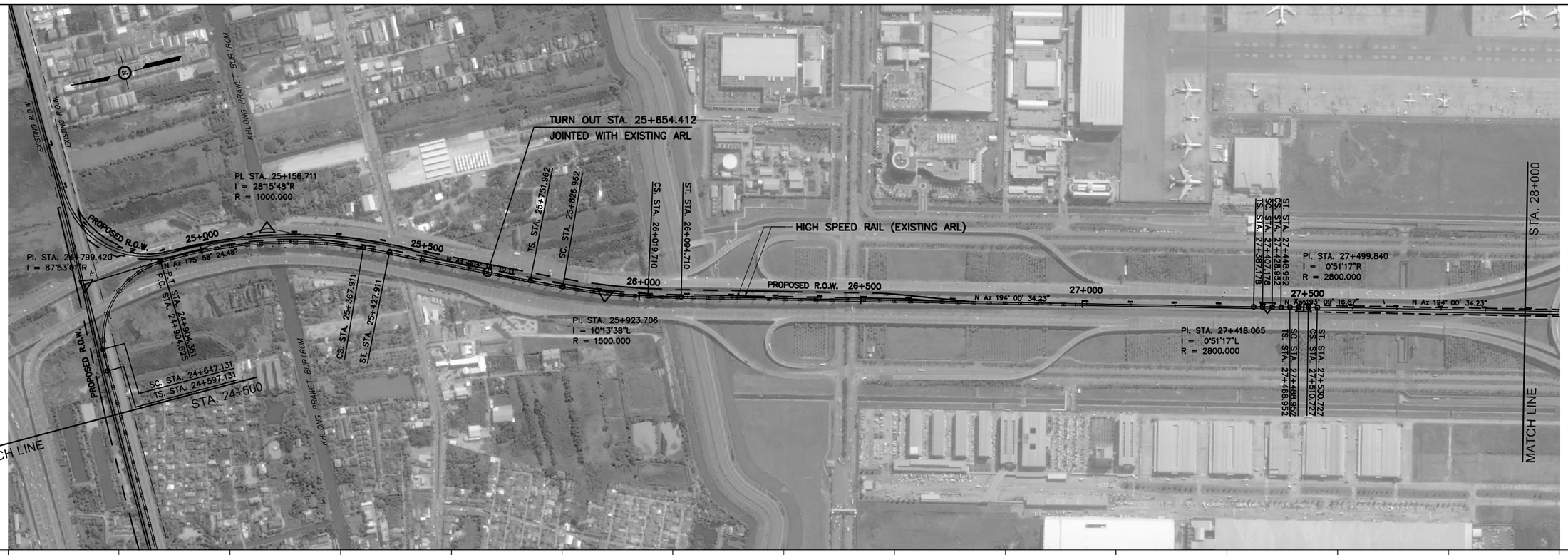
STATE RAILWAY OF THAILAND

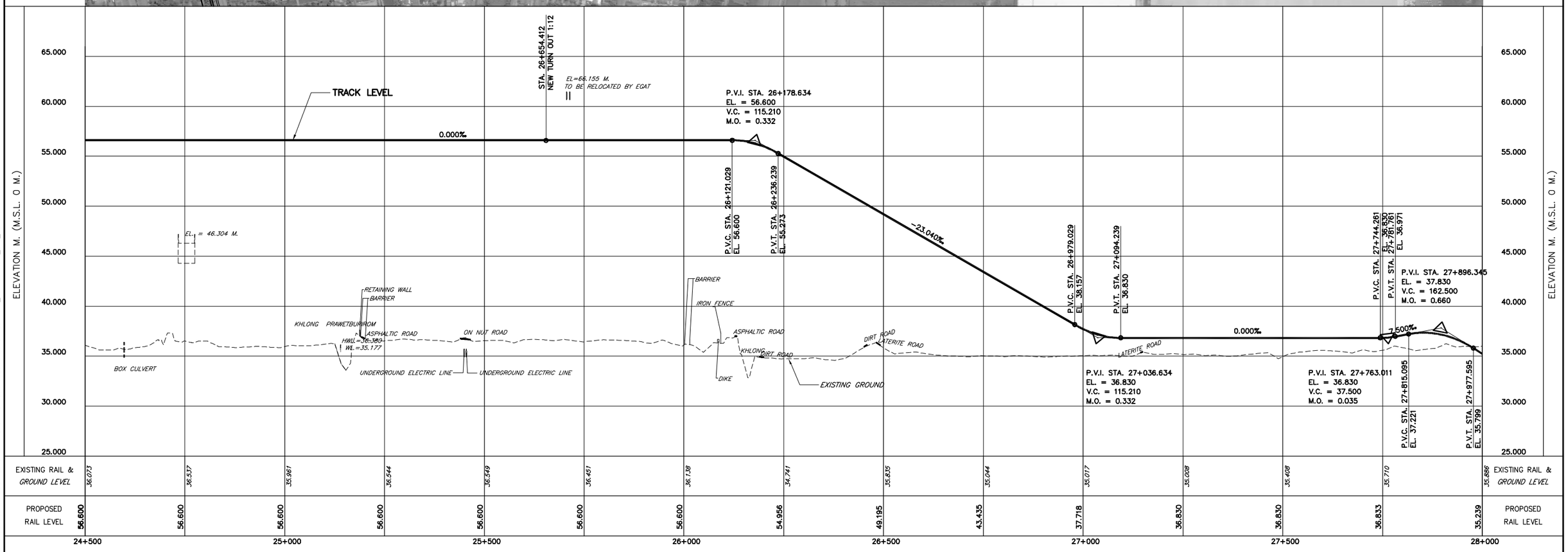
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT



STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : LOCATION MAP	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : G-005-a	SHEET NO. : 005





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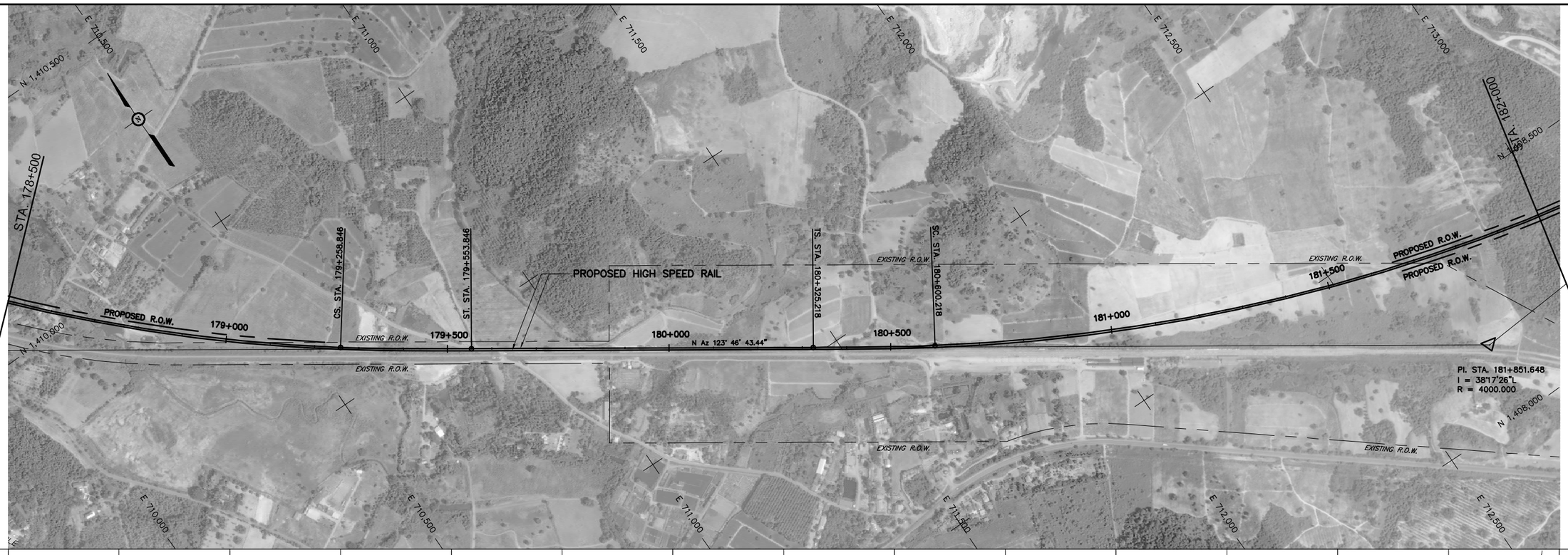
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

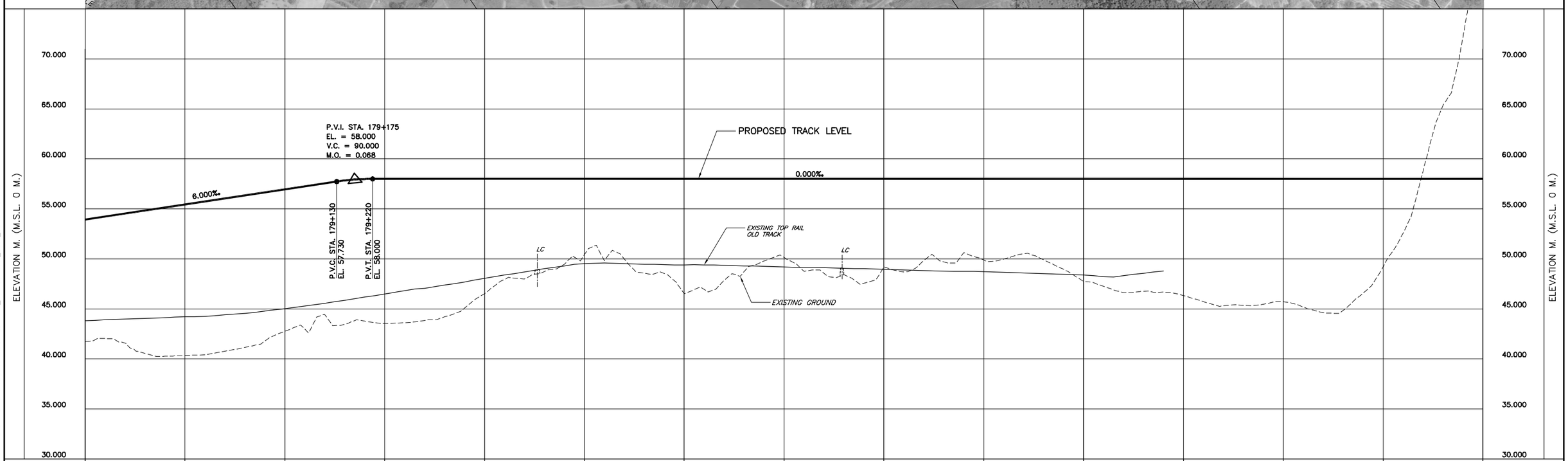
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 24+500 TO STA. 28+000

DATE :	SCALE :
OCTOBER 2018	H = 5000 V = 200
DRAWING NO. : AL-015-a	SHEET NO. : 015





STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 178+500 TO STA. 182+000

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-060-a
SHEET NO. : 060

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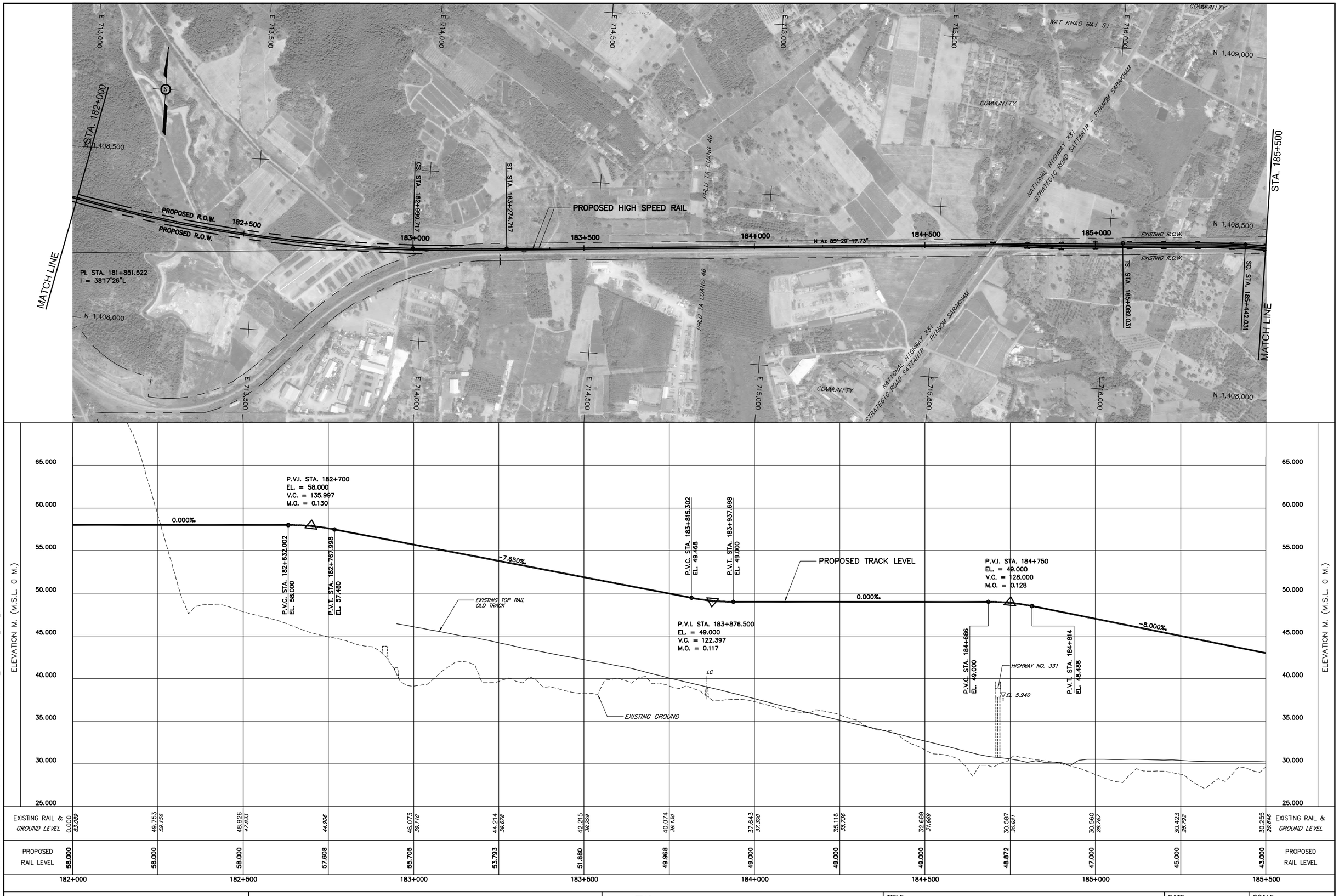

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STATE RAILWAY OF THAILAND
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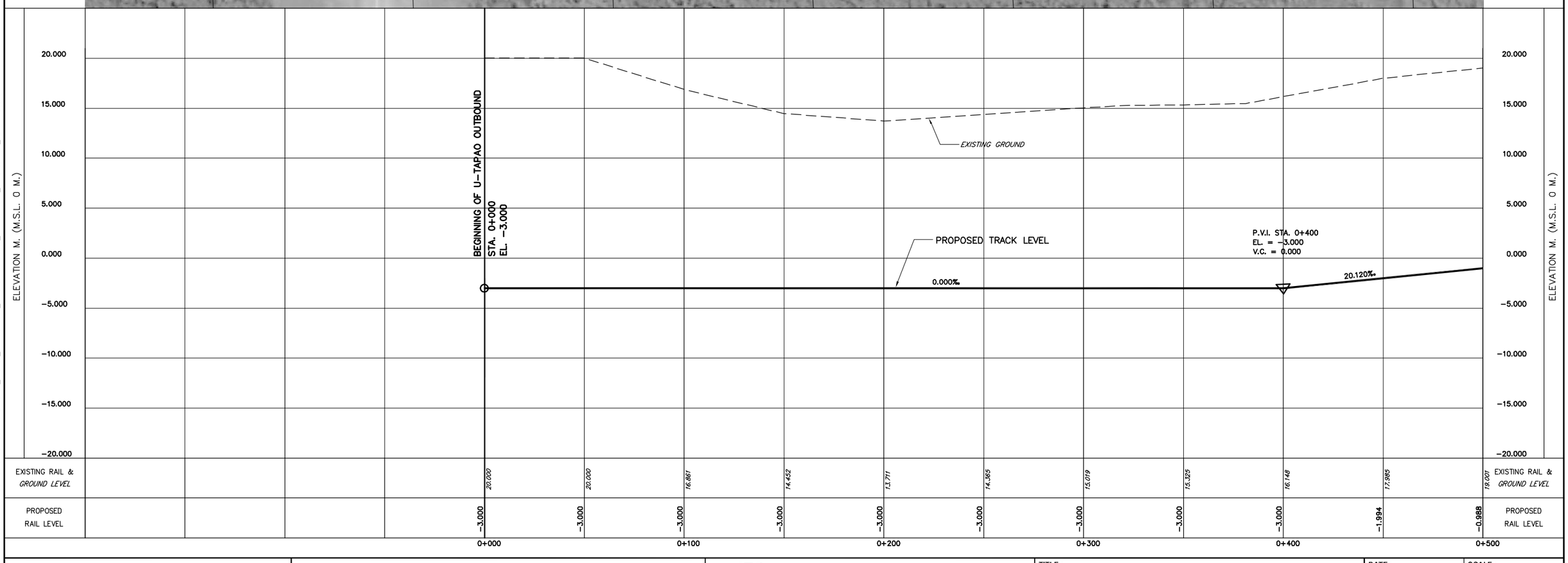
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 182+000 TO STA. 185+500

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-061-a
SHEET NO. : 061



STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : PLAN AND PROFILE STA. 0+000 TO STA. 0+500	DATE : OCTOBER 2018 DRAWING NO. : AL-074-a	SCALE : H = 5000 V = 200 SHEET NO. : 074

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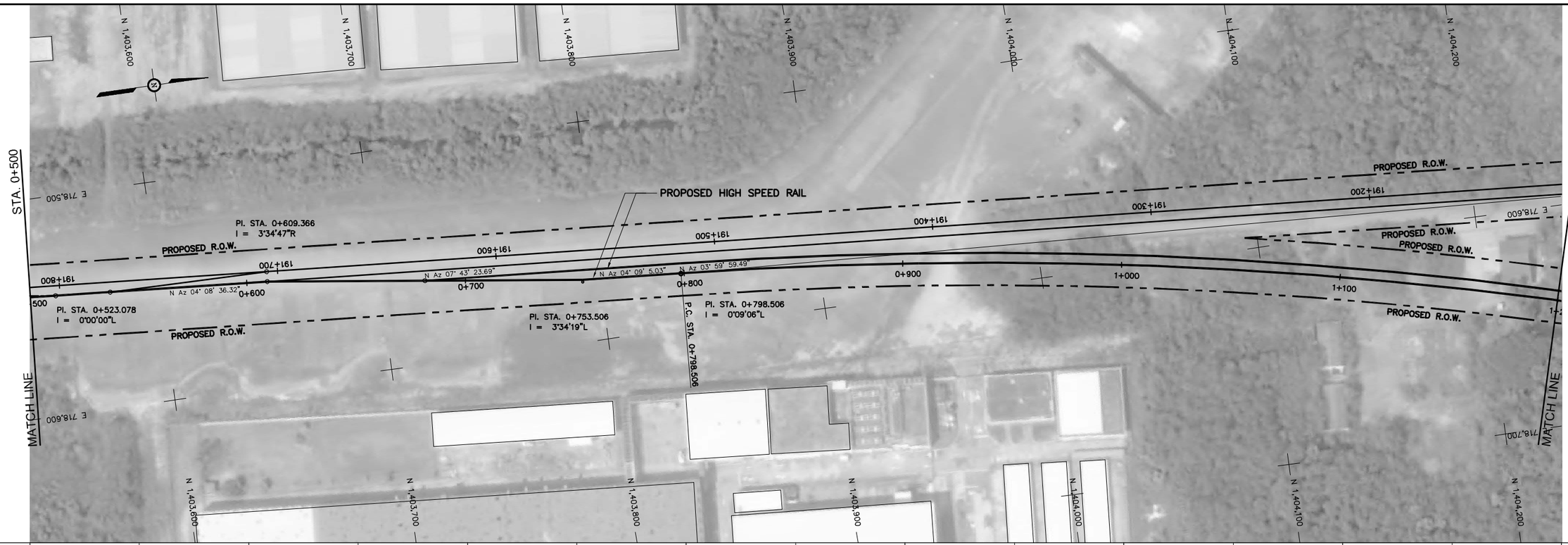

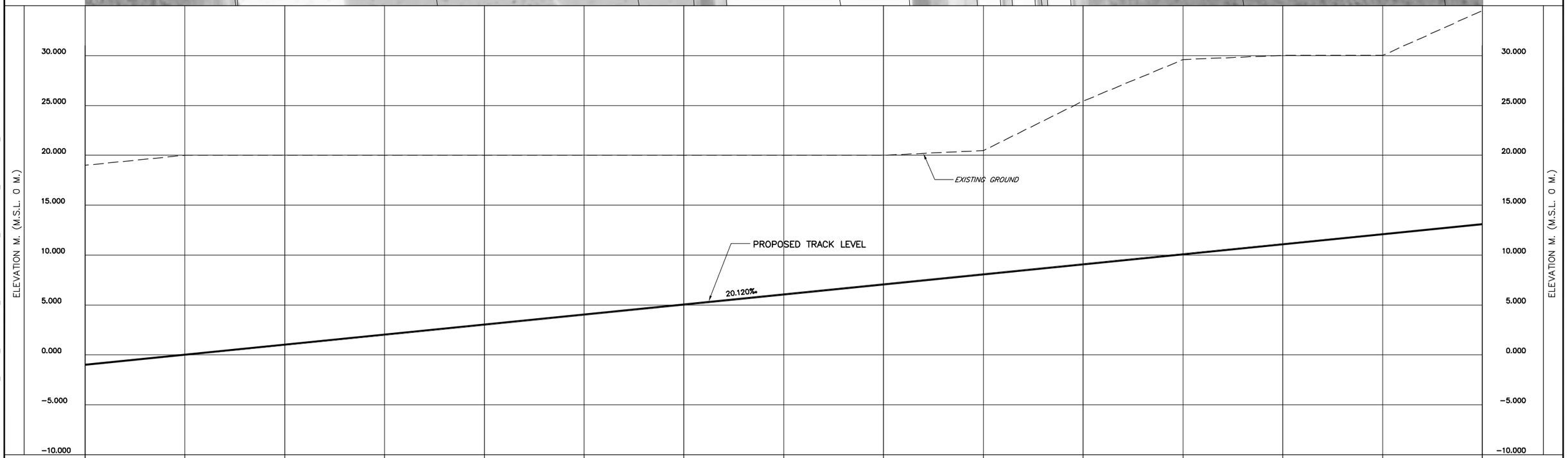

EXISTING RAIL & GROUND LEVEL	19.001	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.468	23.426	29.583	30.000	30.000	34.499		
PROPOSED RAIL LEVEL	−0.988	0.018	1.023	2.029	3.035	4.041	5.047	6.053	7.059	8.065	9.070	10.076	11.082	12.088	13.094	
	0+500		0+600		0+700		0+800		0+900		1+000		1+100		1+200	

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Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 0+500 TO STA. 1+200

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-075-a
SHEET NO. : 075

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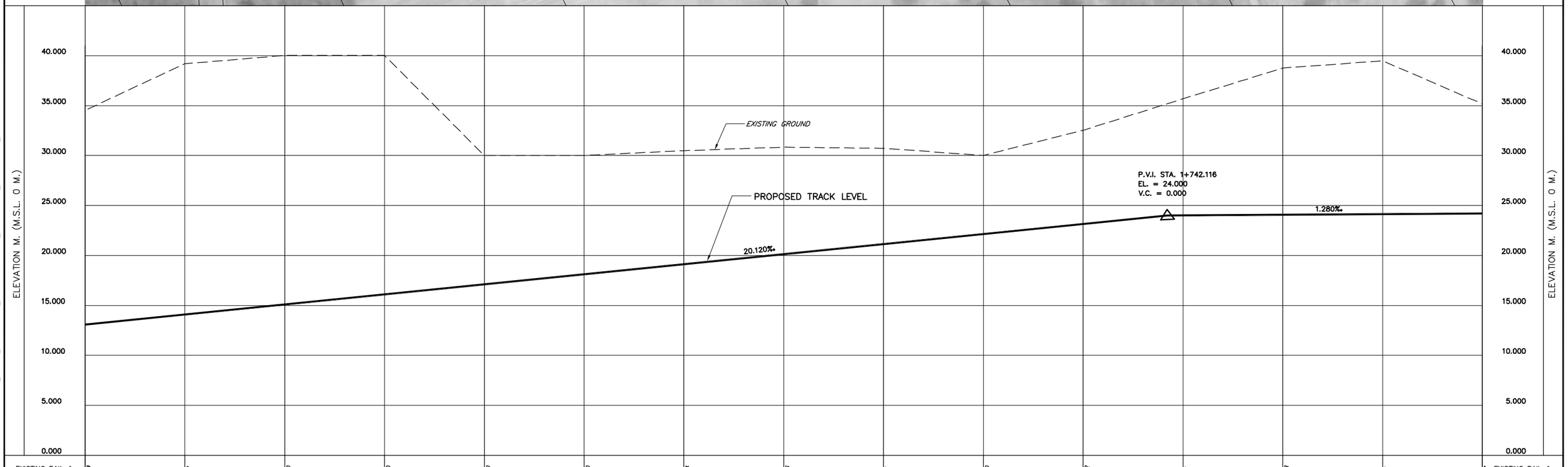

	1+200	1+300	1+400	1+500	1+600	1+700	1+800	1+900
EXISTING RAIL & GROUND LEVEL	34.499	39.172	40.000	40.000	39.000	39.000	39.484	39.826
PROPOSED RAIL LEVEL	13.094	14.100	15.106	16.112	17.117	18.123	19.129	20.135

	1+900	1+800	1+700	1+600	1+500	1+400	1+300	1+200
EXISTING RAIL & GROUND LEVEL	35.157	39.461	38.748	35.671	32.522	30.000	30.000	30.791
PROPOSED RAIL LEVEL	24.202	24.138	24.074	24.010	23.153	22.147	21.141	20.135

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TITLE : PLAN AND PROFILE
STA. 1+200 TO STA. 1+900

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-076-a
SHEET NO. : 076

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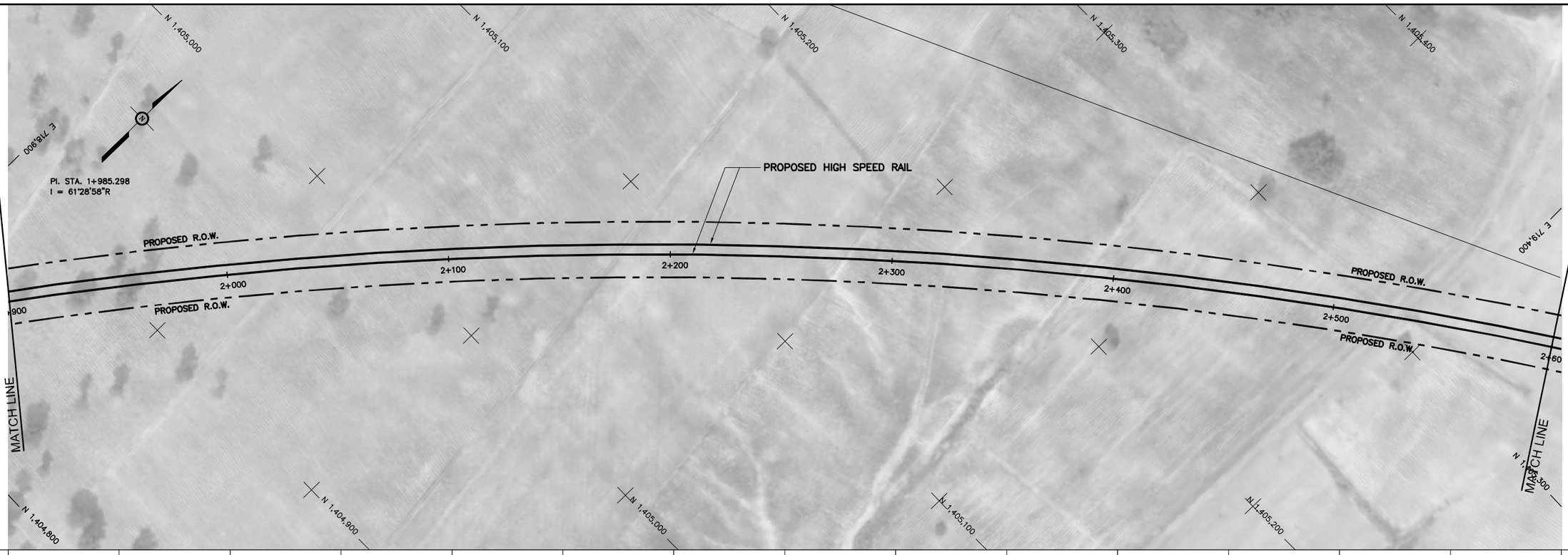

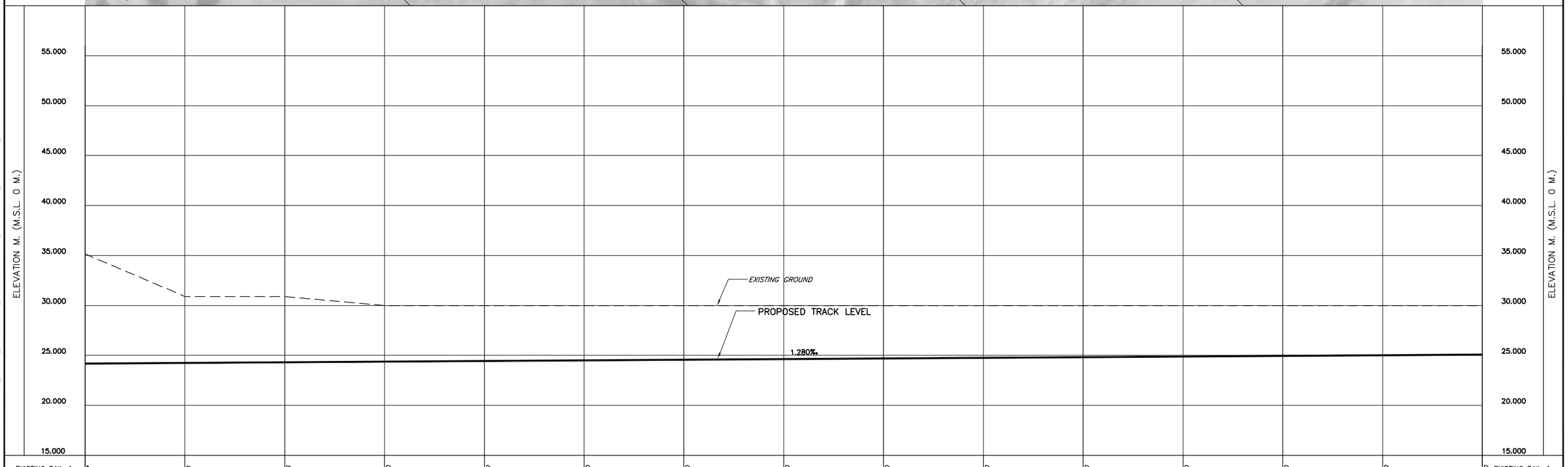

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TITLE : PLAN AND PROFILE
STA. 1+900 TO STA. 2+600

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-077
SHEET NO. : 077

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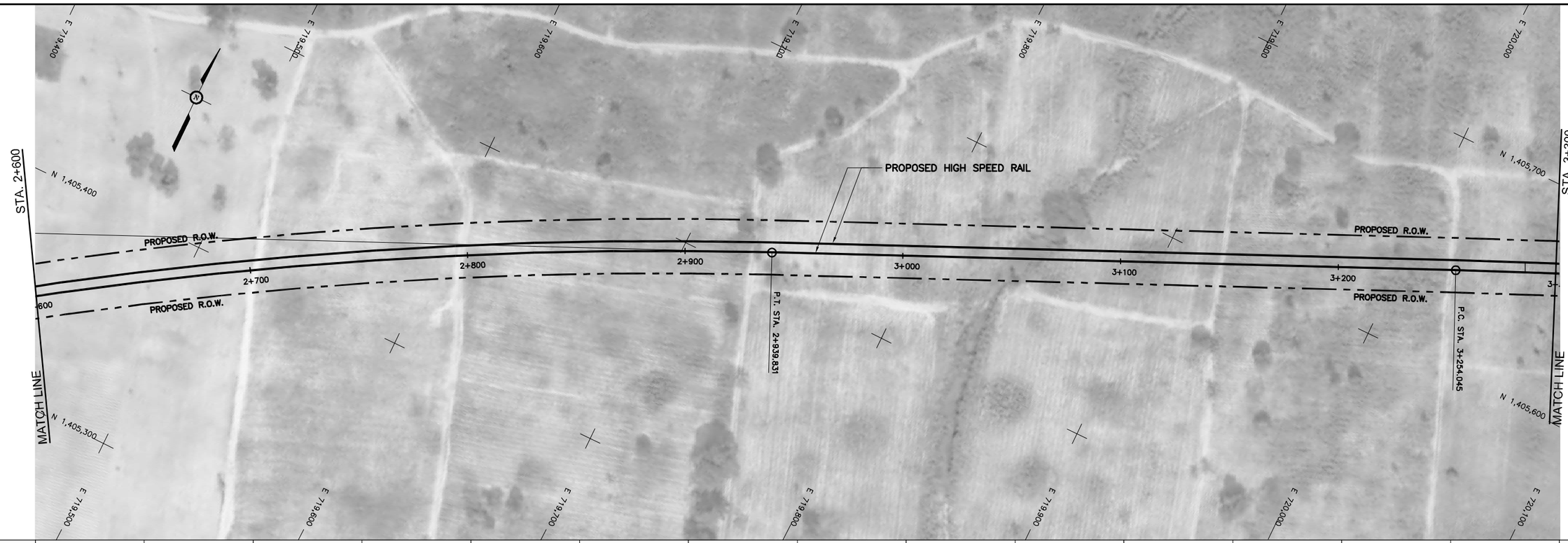

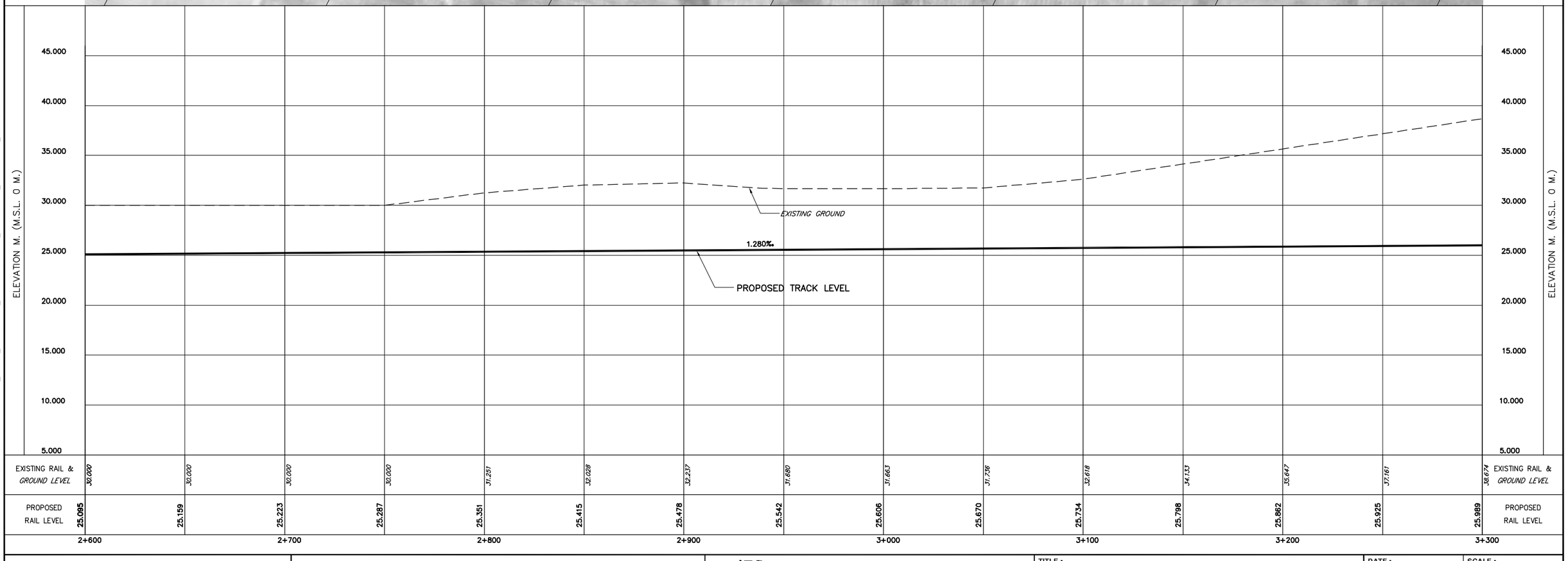

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TITLE : PLAN AND PROFILE
STA. 2+600 TO STA. 3+300

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-078-a
SHEET NO. : 078

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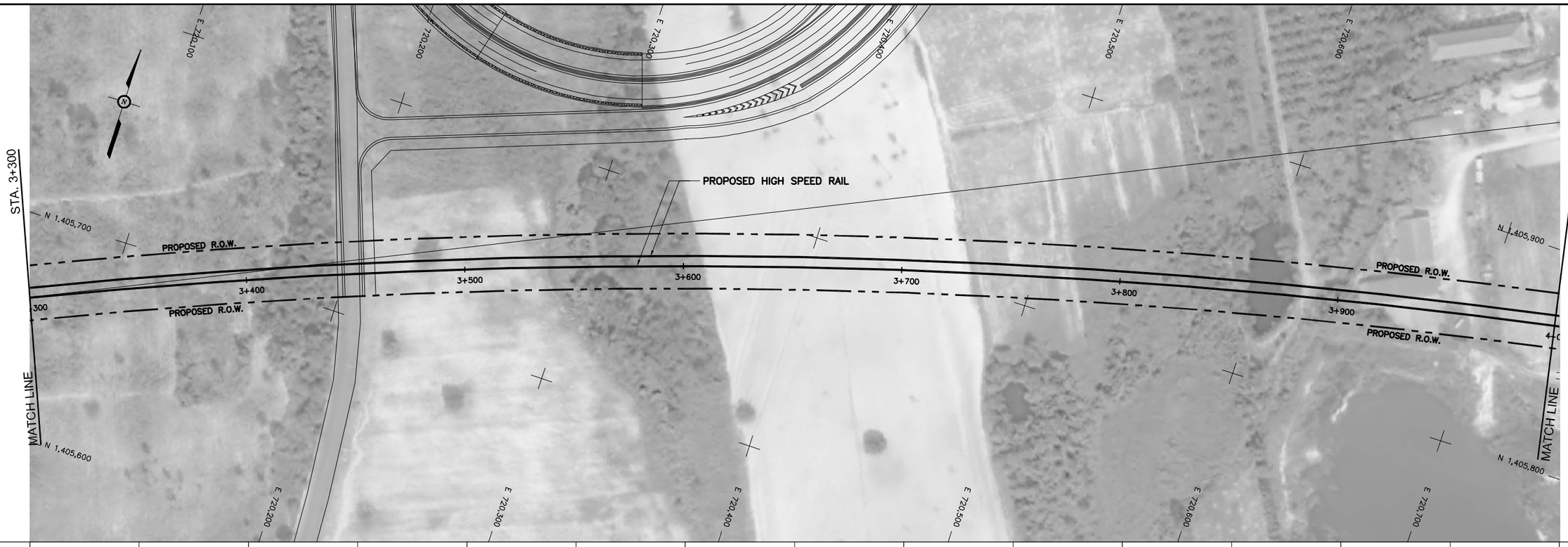
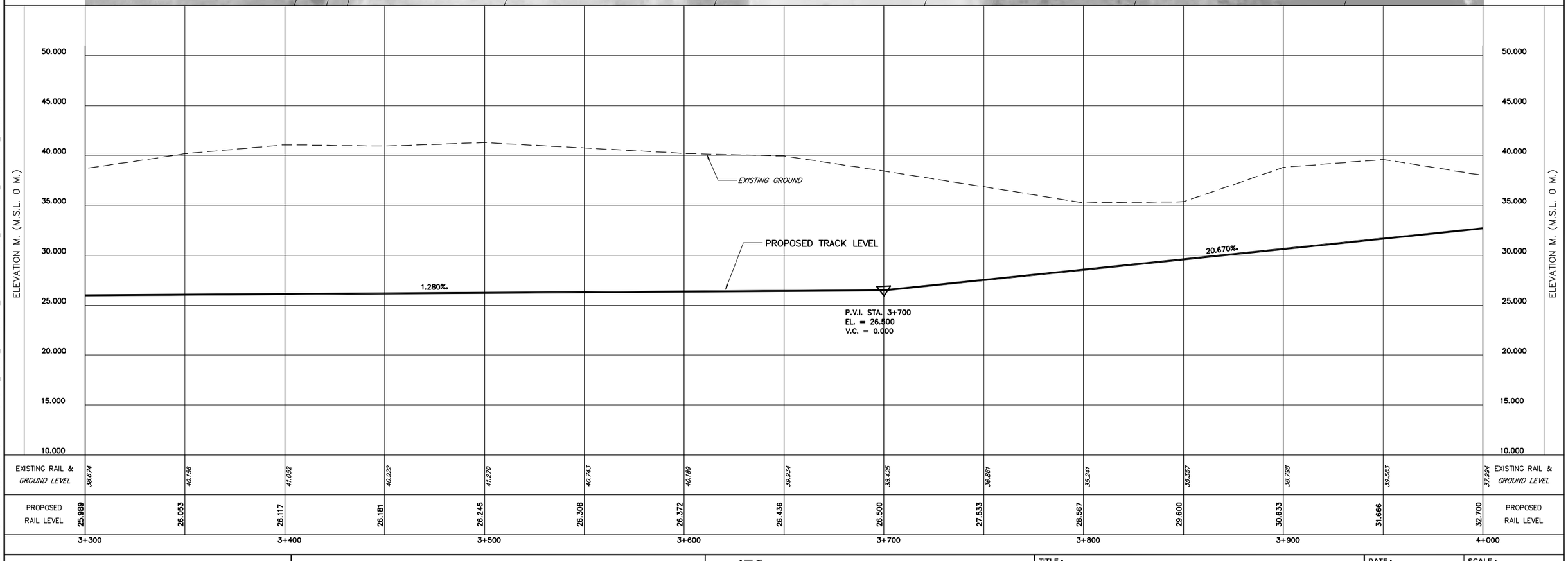
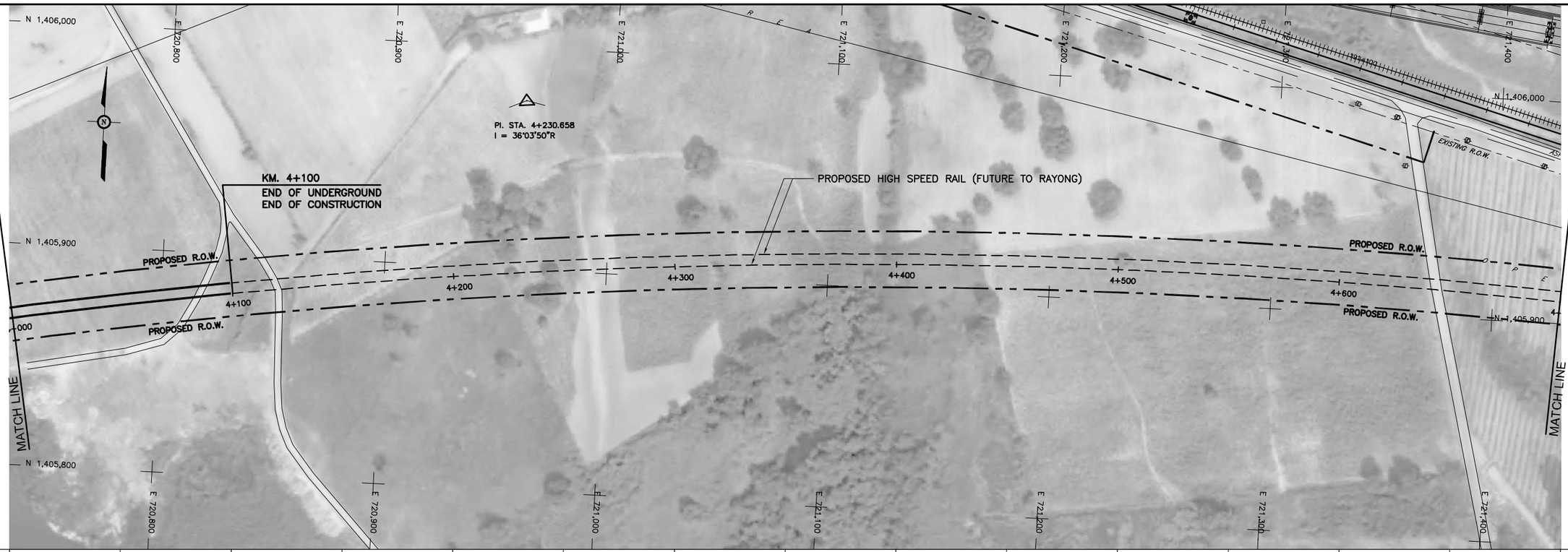
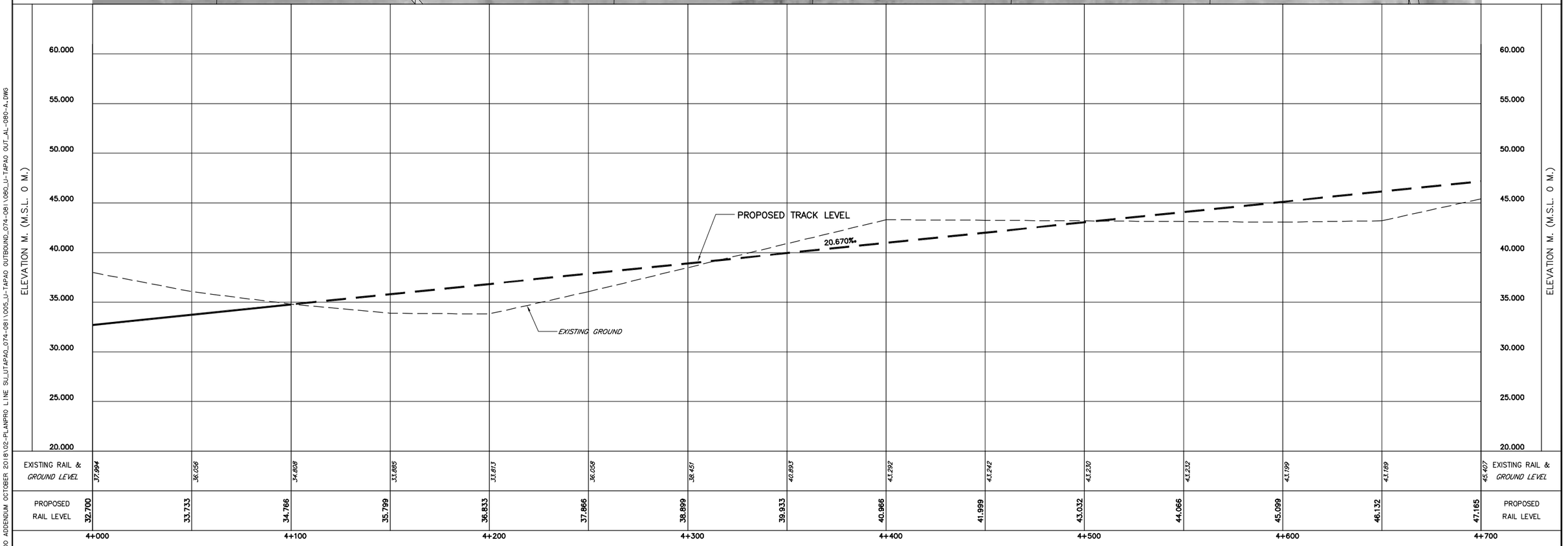




STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : PLAN AND PROFILE STA. 3+300 TO STA. 4+000	DATE : OCTOBER 2018 DRAWING NO. : AL-079-a	SCALE : H = 5000 V = 200 SHEET NO. : 079

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\02-PLANPRO LINE SU_UTAPAO_074-081\005_U-TAPAO OUTBOUND_074-081\079_U-TAPAO OUT_AL-079-A.DWG





STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

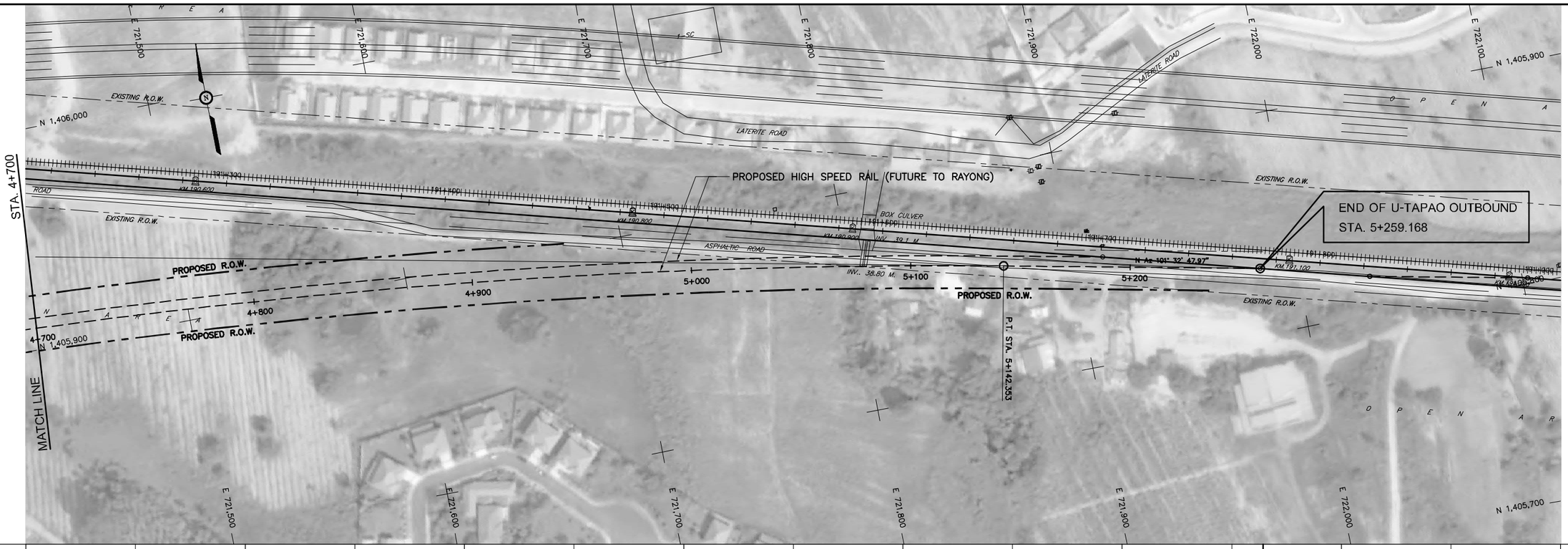
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

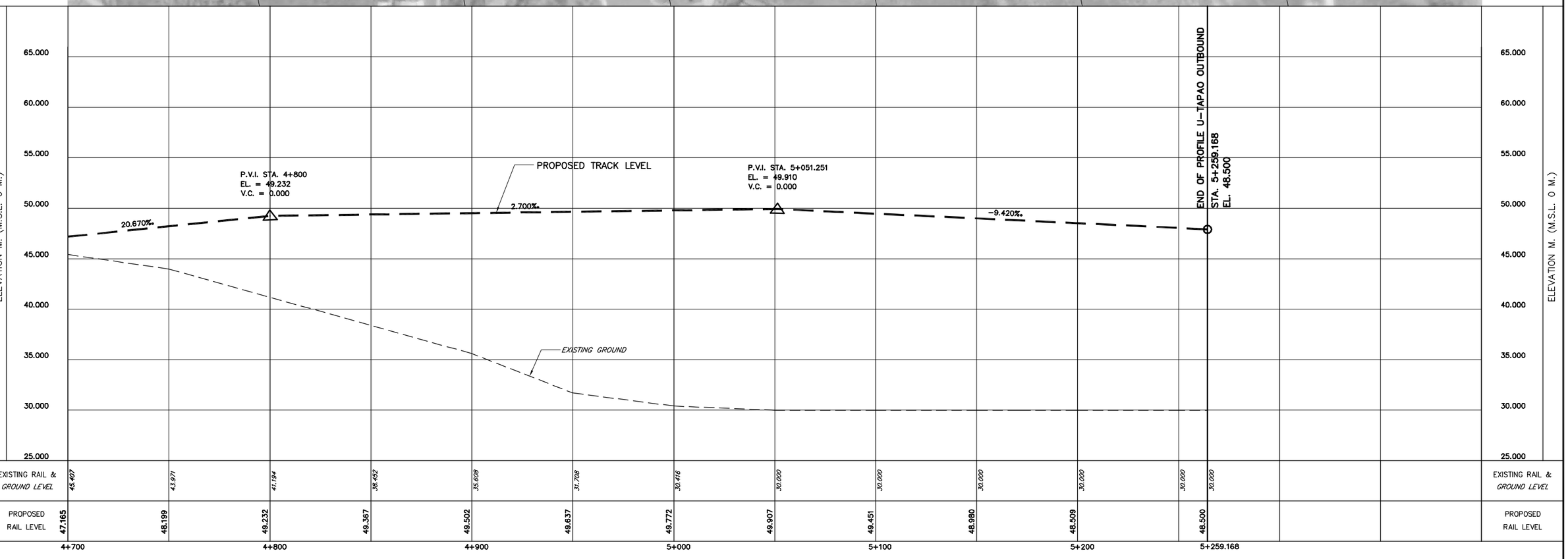
AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 4+000 TO STA. 4+700

DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-080-a
SHEET NO. : 080

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\02-PLANPRO LINE SU_UTAPAO_074-081\005_U-TAPAO OUTBOUND_074-081\080_U-TAPAO OUT_AL-080-A.DWG





D:\AECI462-PPTA\00 ADDENDUM OCTOBER 2018\02-PLANPRO LINE SU_UTAPAO_074-081\005_U-TAPAO OUTBOUND_074-081\081_U-TAPAO OUT_AL-081-A.DWG

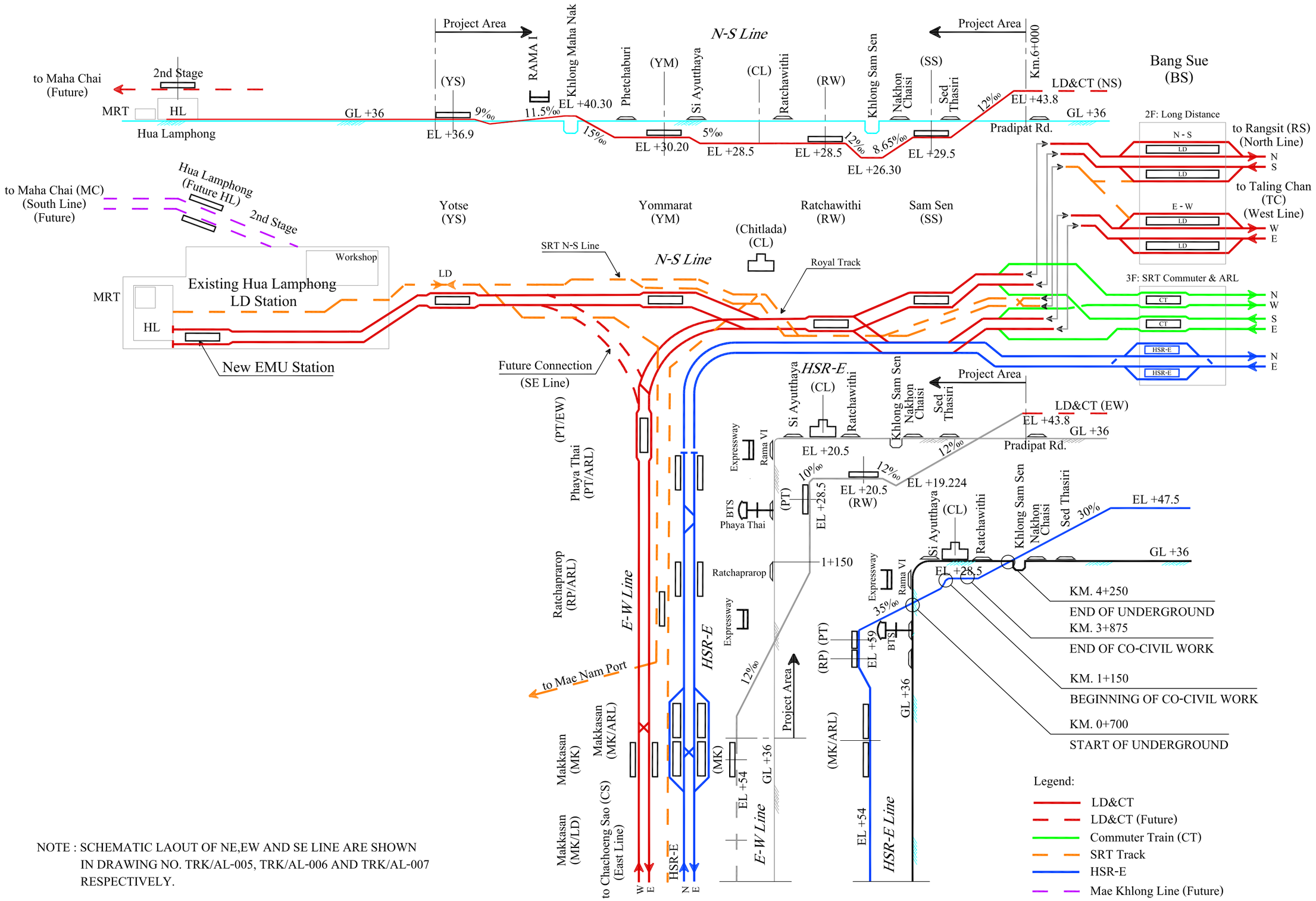
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

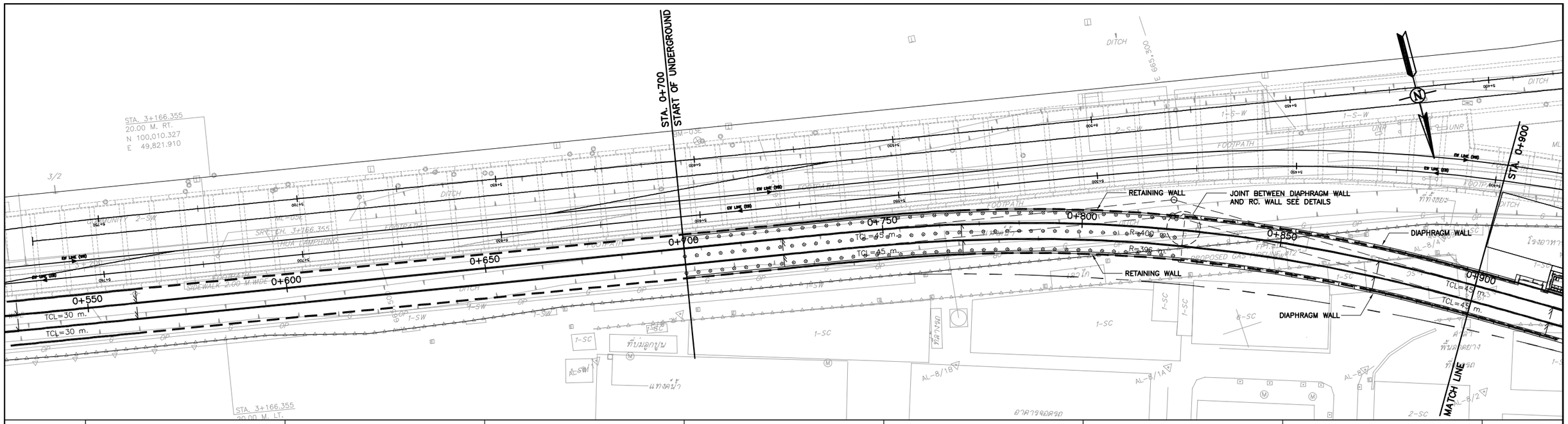
TITLE : PLAN AND PROFILE
STA. 4+700 TO STA. 5+259.168

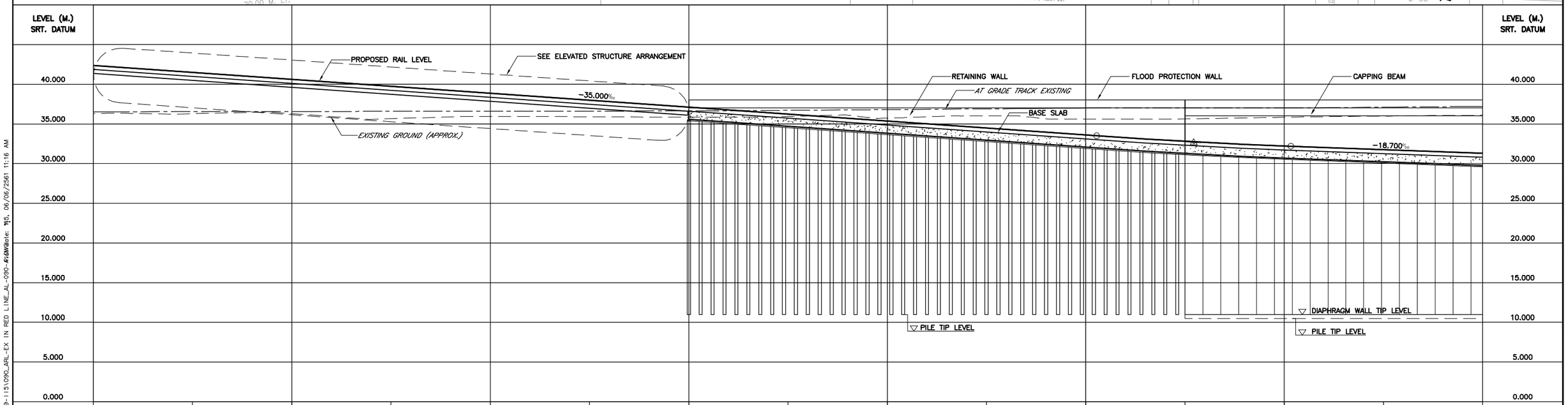
DATE : OCTOBER 2018
SCALE : H = 5000 V = 200
DRAWING NO. : AL-081-a
SHEET NO. : 081



NOTE : SCHEMATIC LAOUT OF NE,EW AND SE LINE ARE SHOWN IN DRAWING NO. TRK/AL-005, TRK/AL-006 AND TRK/AL-007 RESPECTIVELY.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TRACK SCHEMATIC & PROFILE	DATE : JUNE 2018 DRAWING NO. : AL-089-a	SCALE : AS SHOWN SHEET NO. : 089





TOP OF RAIL LEVEL	41.469	36.279	40.594	36.276	39.719	35.650	38.844	35.916	37.969	35.892	37.094	35.854	36.219	35.927	35.344	35.732	34.469	36.012	33.594	35.579	32.802	35.626	32.216	35.831	31.748	35.980
CHAINAGE			0+600				0+650				0+700				0+750				0+800		0+825		0+850			
WALL TYPE	RW1														RW2						DW1					
BASE SLAB TYPE	BS1														BS2						BS3					
STRUT/DECK TYPE	–														–						–					
WALL FINISH TYPE	–														WF1						WF2					
D-WALL TIP LEVEL	–														–						TBA					
PILE TYPE/TIP LEVEL	BP1/+11														BP1/+11						+10					

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 0+700 TO STA. 0+900

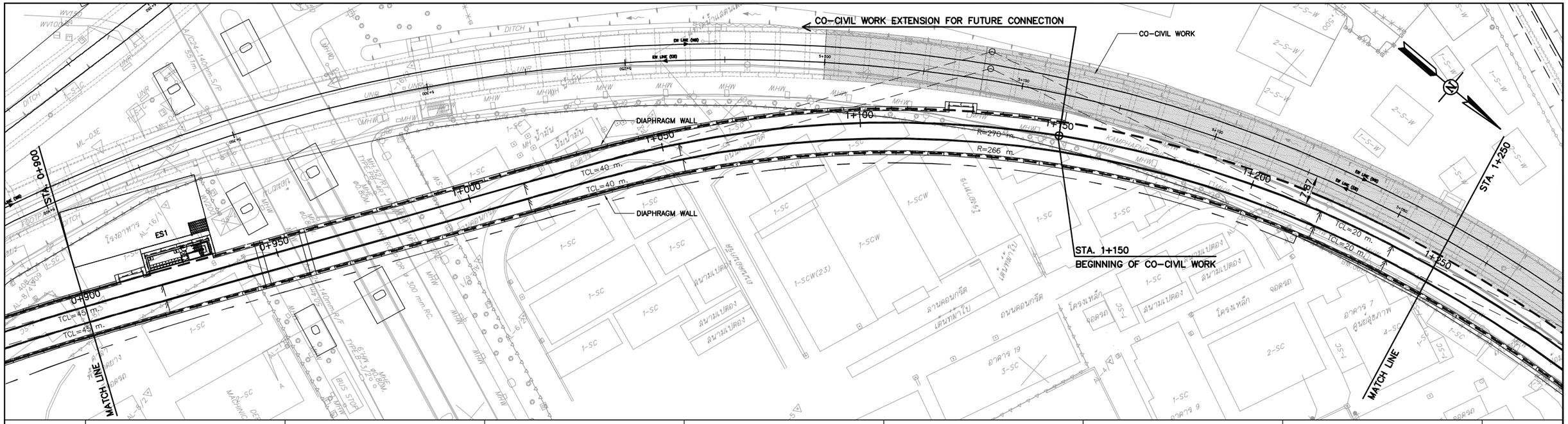
DATE : OCTOBER 2018

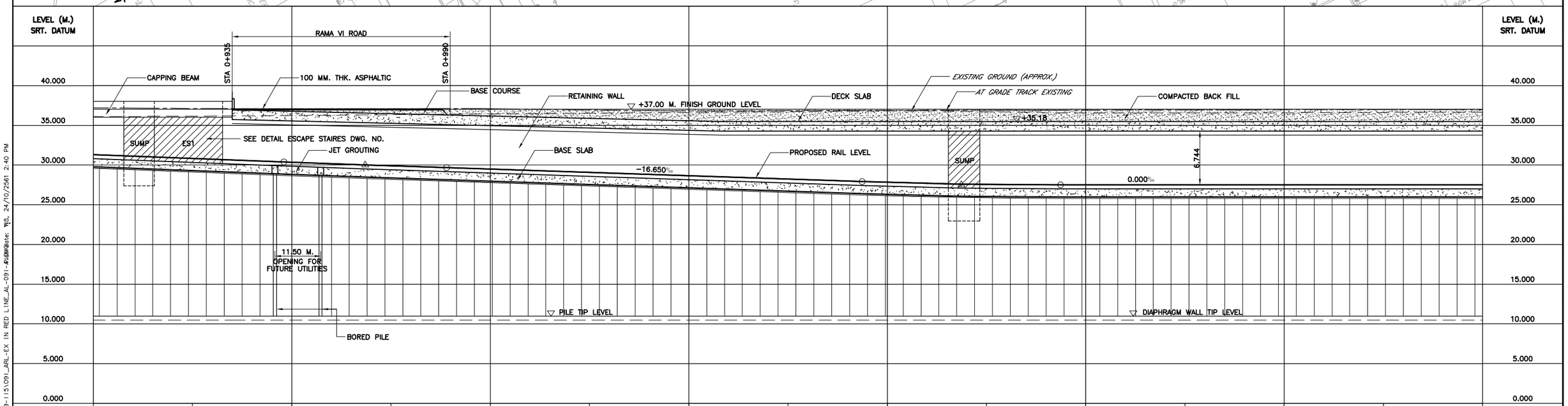
SCALE : A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500

DRAWING NO. : AL-090-a

SHEET NO. : 090

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\090_ARL-EX IN RED LINE_AL-090-a.dwg Date: 115, 06/06/2561 11:16 AM





TOP OF RAIL LEVEL	30.813 / 36.146			30.346 / 36.213		29.897 / 36.323		29.476 / 36.419		29.059 / 36.513		28.643 / 36.609		28.227 / 36.706		27.817 / 36.799		27.558 / 36.704		27.500 / 36.556		27.500 / 36.565		27.500 / 36.562		27.500 / 36.611	TOP OF RAIL LEVEL
CHAINAGE		0+935	0+945	0+950	0+965			1+000				1+050				1+100				1+150				1+200			CHAINAGE
WALL TYPE	DW1		DW1	DW1A		DW1												DW1				DW1				DW1	WALL TYPE
BASE SLAB TYPE	BS3		BS3	BS3		BS3												BS3				BS3				BS3	BASE SLAB TYPE
STRUT/DECK TYPE	–		DS1	DS1		DS1												DS1				DS3				DS1	STRUT/DECK TYPE
WALL FINISH TYPE	WF2		WF2	WF2		WF2												WF2				WF2				WF2	WALL FINISH TYPE
D-WALL TIP LEVEL	+10		+10	+24		+10												+10				+10				+10	D-WALL TIP LEVEL
PILE TYPE/TIP LEVEL	–		–	+10		–												–				–				–	PILE TYPE/TIP LEVEL

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

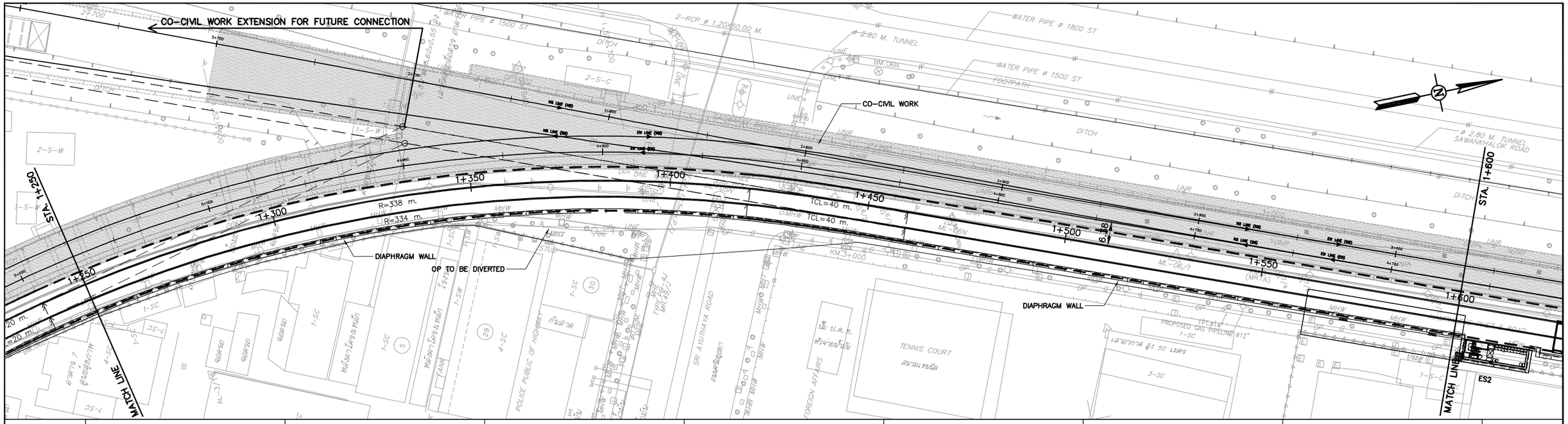
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

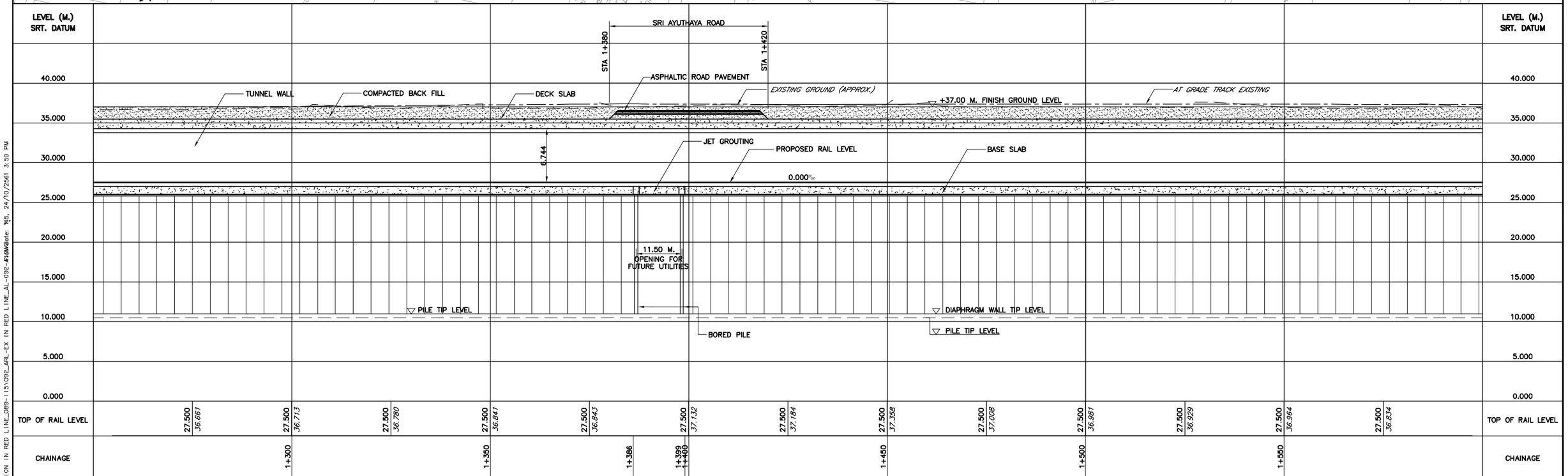
AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 0+900 TO STA. 1+250

DATE : OCTOBER 2018
SCALE : A1 : H=1:500 V=1:250 / A3 : H=1:1000 V=1:500
DRAWING NO. : AL-091-a
SHEET NO. : 091

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\091_ARL-EX IN RED LINE_AL-091-a.dwg Date: พุธ, 24/10/2561 2:40 PM

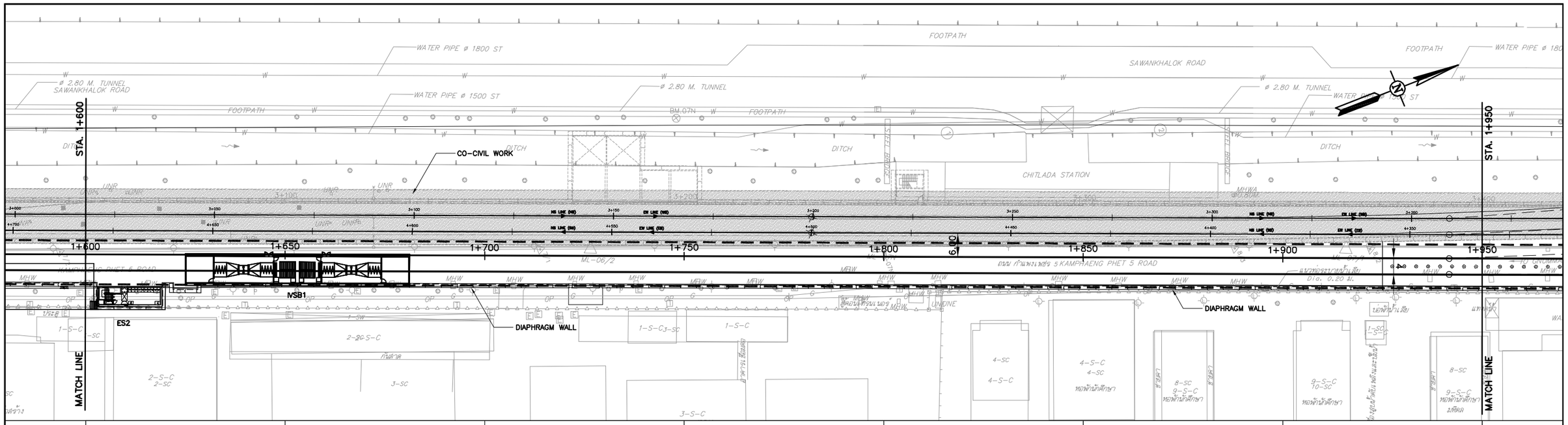


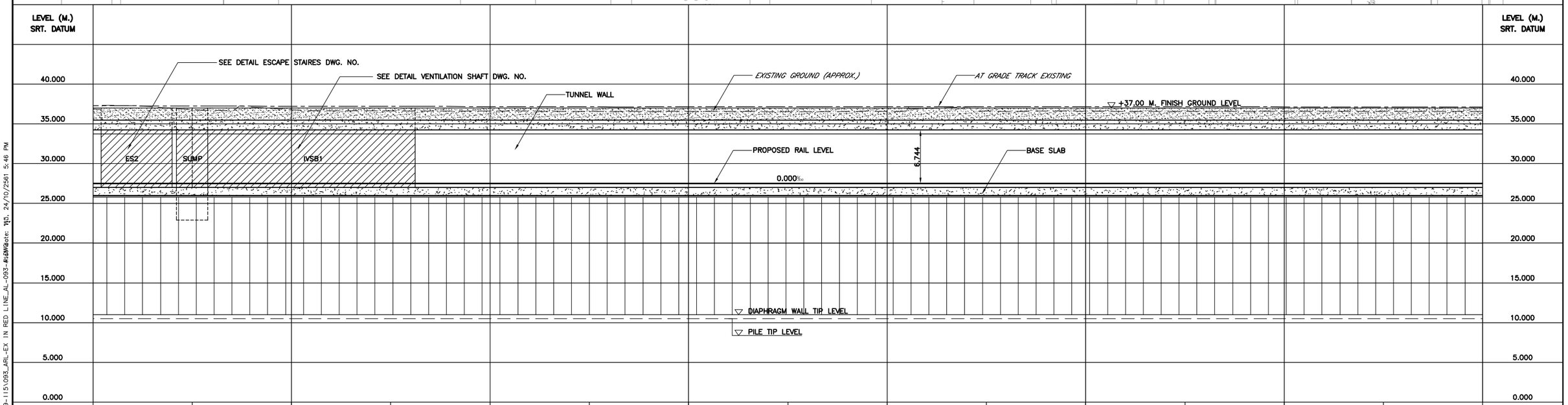


STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : PLAN AND PROFILE STA. 1+250 TO STA. 1+600

DATE :	SCALE :
OCTOBER 2018	A1 : H=1:500 V=1:250 A3 : H=1:1000 V=1:500
DRAWING NO. : AL-092-a	SHEET NO. : 092

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_09-115\092_ARL-EX IN RED LINE_AL-092-A.dwg Date: พุธ, 24/10/2561 3:50 PM





TOP OF RAIL LEVEL	27.500	36.795	27.500	36.772	27.500	36.635	27.500	36.606	27.500	36.566	27.500	36.558	27.500	36.537	27.500	36.565	27.500	36.604	27.500	36.593	27.500	36.562	27.500	36.564	27.500	36.576
CHAINAGE			1+650				1+700				1+750		1+790		1+800				1+850				1+900		1+925	
WALL TYPE	DW2														DW2										DW2	
BASE SLAB TYPE	BS3														BS3										BS4	
STRUT/DECK TYPE	DS1														DS3										DS3	
WALL FINISH TYPE	WF2														WF2										WF2	
D-WALL TIP LEVEL	+2														+2										TBA	
PILE TYPE/TIP LEVEL	–														–										BP2/TBA	

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

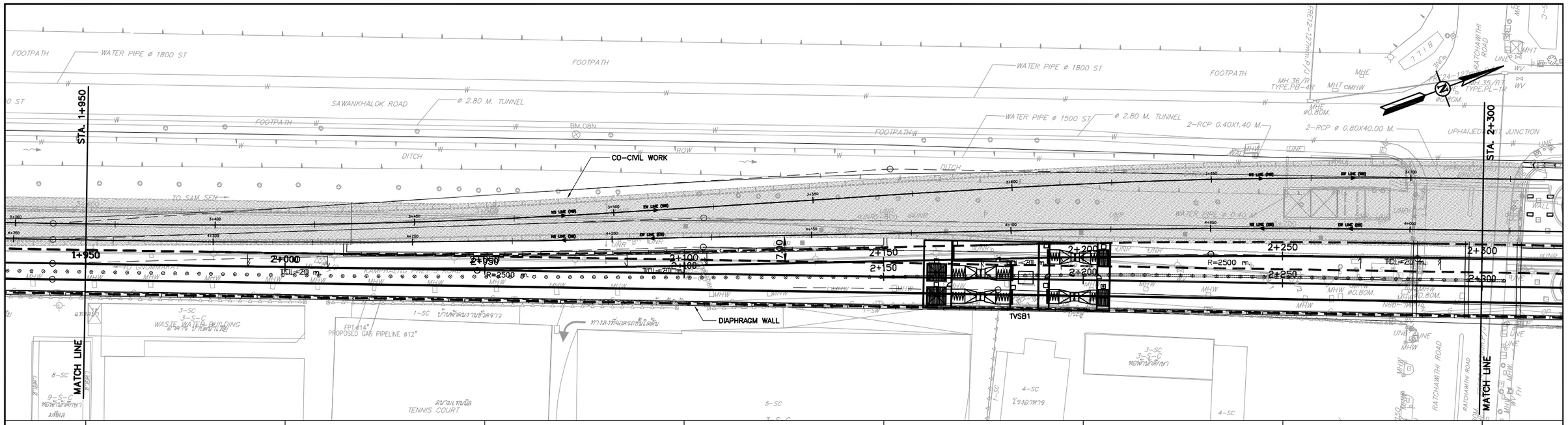
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

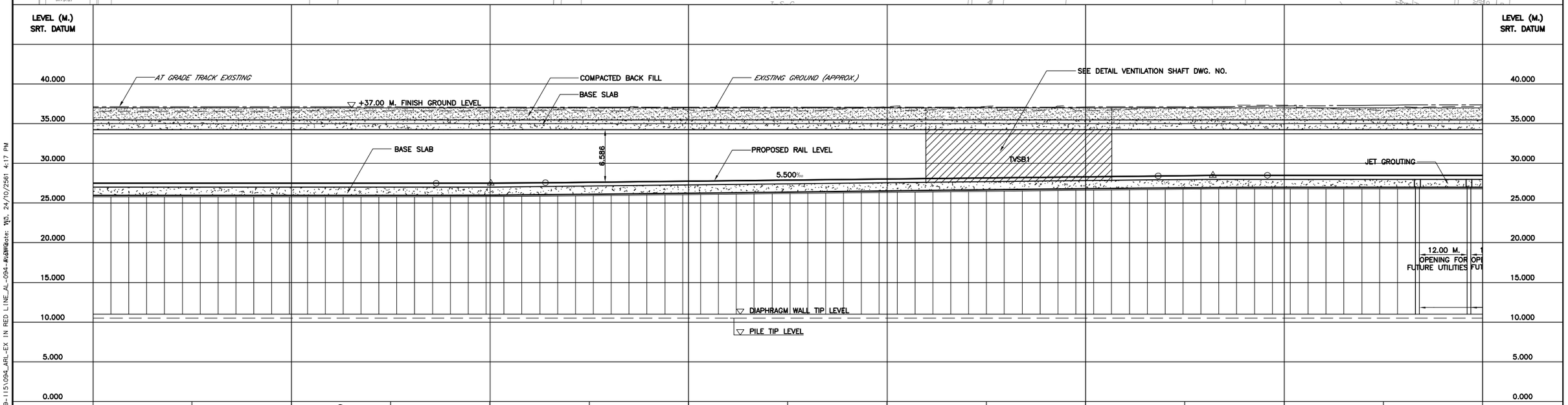
AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 1+600 TO STA. 1+950

DATE: OCTOBER 2018
SCALE: A1 : H=1:500 V=1:250 ; A3 : H=1:1000 V=1:500
DRAWING NO.: AL-093-a
SHEET NO.: 093

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\093_ARL-EX IN RED LINE_AL-093-a.dwg Date: พุธ, 24/10/2561 5:46 PM





TOP OF RAIL LEVEL	27.500	36.581	27.500	36.601	28.500	27.500	36.598	27.518	36.627	27.636	36.605	27.774	36.727	27.911	36.624	28.049	37.147	28.186
TOP OF RAIL LEVEL	37.176	28.324	36.638	28.457	36.957	28.500	37.327	28.500	36.689									
CHAINAGE	2+000	2+015	2+050	2+100	2+150	2+200	2+206.50	2+250	2+283									
WALL TYPE	DW2	DW3	DW2	DW3	DW1A													
BASE SLAB TYPE	BS4	BS4	BS4	BS4	BS4													
STRUT/DECK TYPE	DS3	DS3	DS4	DS5	DS5													
WALL FINISH TYPE	WF2	WF2	WF2	WF2	WF2													
D-WALL TIP LEVEL	+2	+2	+2	+2	+2													
PILE TYPE/TIP LEVEL	BP2/+2	BP2/+2	BP2/+2	BP2/+2	BP2/+2													

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

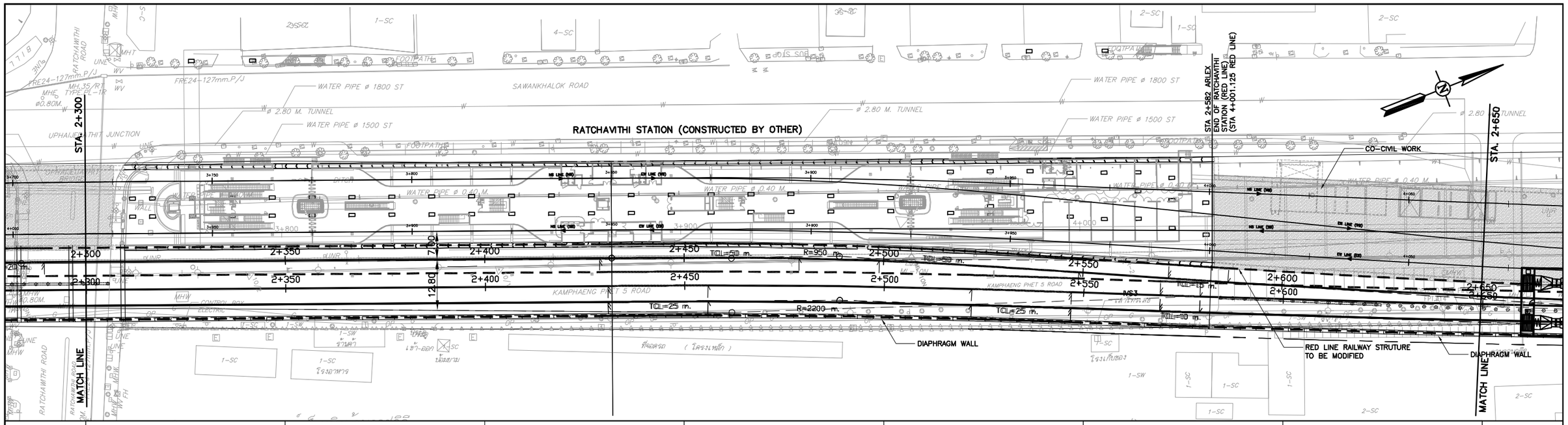
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

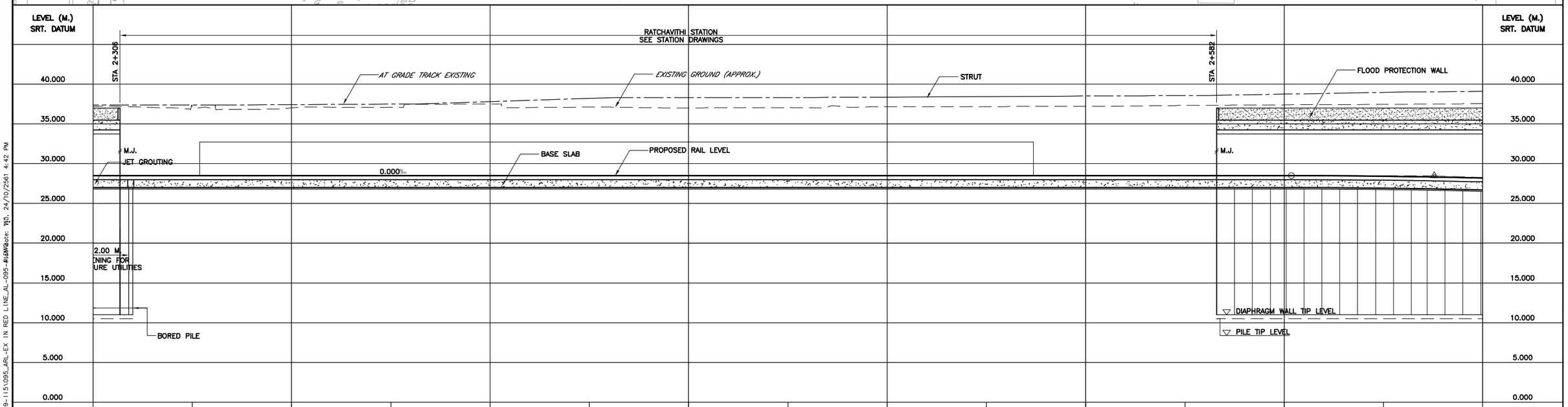
AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 1+950 TO STA. 2+300

DATE : OCTOBER 2018
SCALE : A1 : H=1:500 V=1:250 ; A3 : H=1:1000 V=1:500
DRAWING NO. : AL-094-a
SHEET NO. : 094

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\094_ARL-EX IN RED LINE_AL-094-a.dwg Date: พุธ, 24/10/2561 4:17 PM





WALL TYPE	DW1A	SEE STATION DRAWINGS															DW4	DW4
BASE SLAB TYPE	BS4	SEE STATION DRAWINGS															BS4	BS4
STRUT/DECK TYPE	DS5	SEE STATION DRAWINGS															DS6	DS2
WALL FINISH TYPE	WF2	SEE STATION DRAWINGS															WF2	WF2
D-WALL TIP LEVEL	+2	SEE STATION DRAWINGS															+2	+2
PILE TYPE/TIP LEVEL	BP2/+2	SEE STATION DRAWINGS															BP2/+2	BP2/+2

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 2+300 TO STA. 2+650

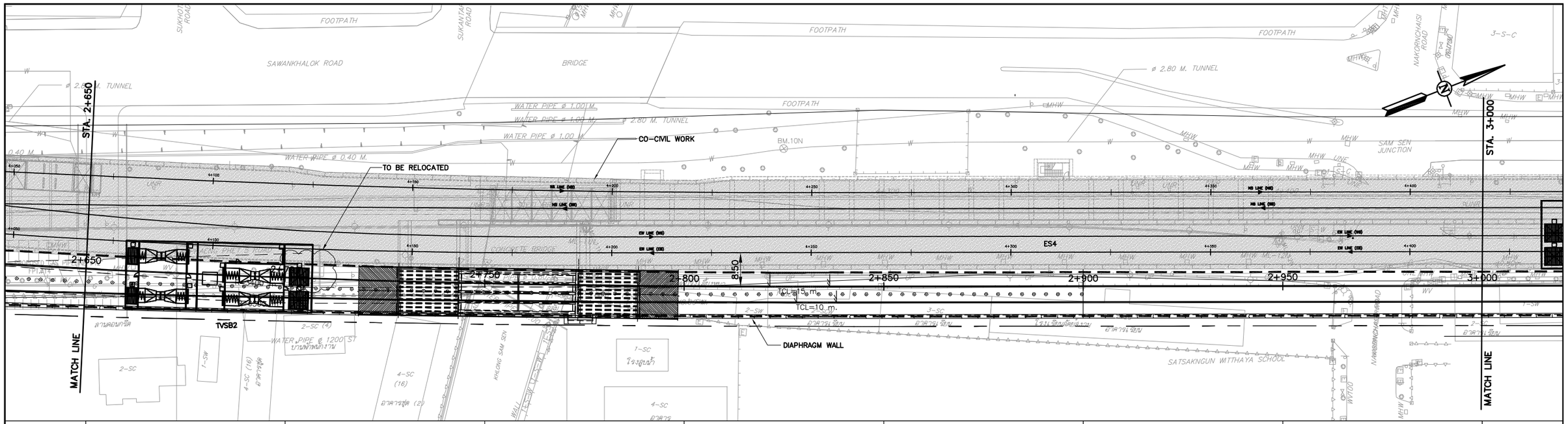
DATE: OCTOBER 2018

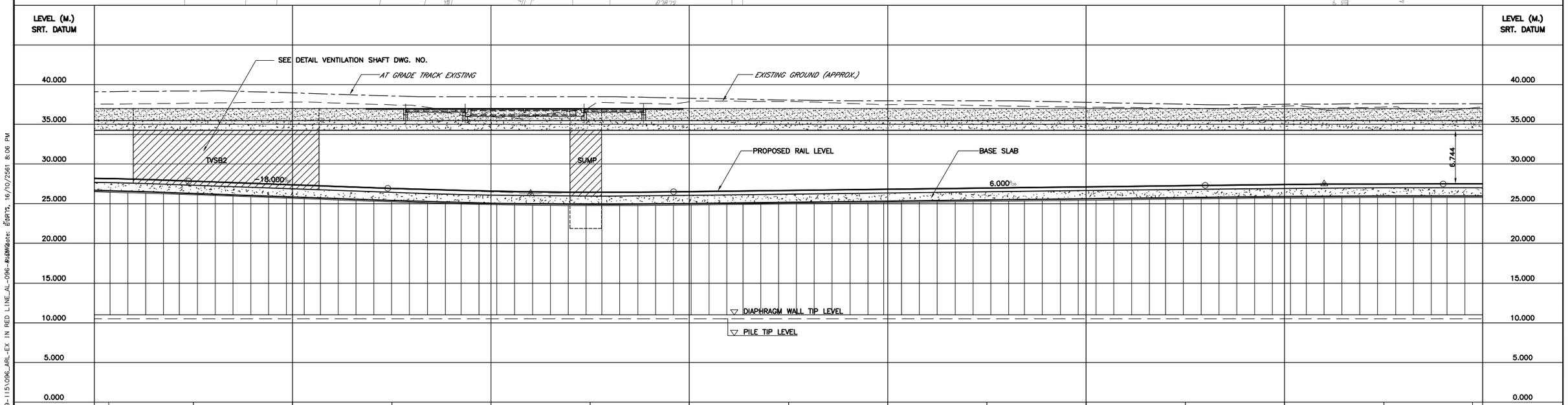
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500

DRAWING NO.: AL-095-a

SHEET NO.: 095

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\095_ARL-EX IN RED LINE_AL-095-a.dwg Date: วัน, 24/10/2561 4:42 PM





TOP OF RAIL LEVEL	27.830 37.656	27.380 37.792	26.930 37.451	26.593 36.062	26.463 37.204	26.540 37.840	26.690 37.872	26.840 37.473	26.990 37.339	27.140 37.178	27.290 36.984	27.420 37.283	27.489 37.188	TOP OF RAIL LEVEL
CHAINAGE	2+700	2+706.50	2+721	2+750	2+770	2+800	2+850	2+900	2+950	CHAINAGE
WALL TYPE	DW4		DW4	DW4		DW5	DW5	DW4	WALL TYPE
BASE SLAB TYPE	BS4		BS4	BS4		BS4	BS4	BS3	BASE SLAB TYPE
STRUT/DECK TYPE	DS2	DS1	DS1	DS1	DS1	DS2	DS2	DS2	STRUT/DECK TYPE
WALL FINISH TYPE	WF2		WF2	WF2		WF2	WF2	WF2	WALL FINISH TYPE
D-WALL TIP LEVEL	+2		+0	0		+3.5	+7.0	+10	D-WALL TIP LEVEL
PILE TYPE/TIP LEVEL	BP2/+2		BP2/+0	BP2/0		BP2/+3.5	-	-	PILE TYPE/TIP LEVEL

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

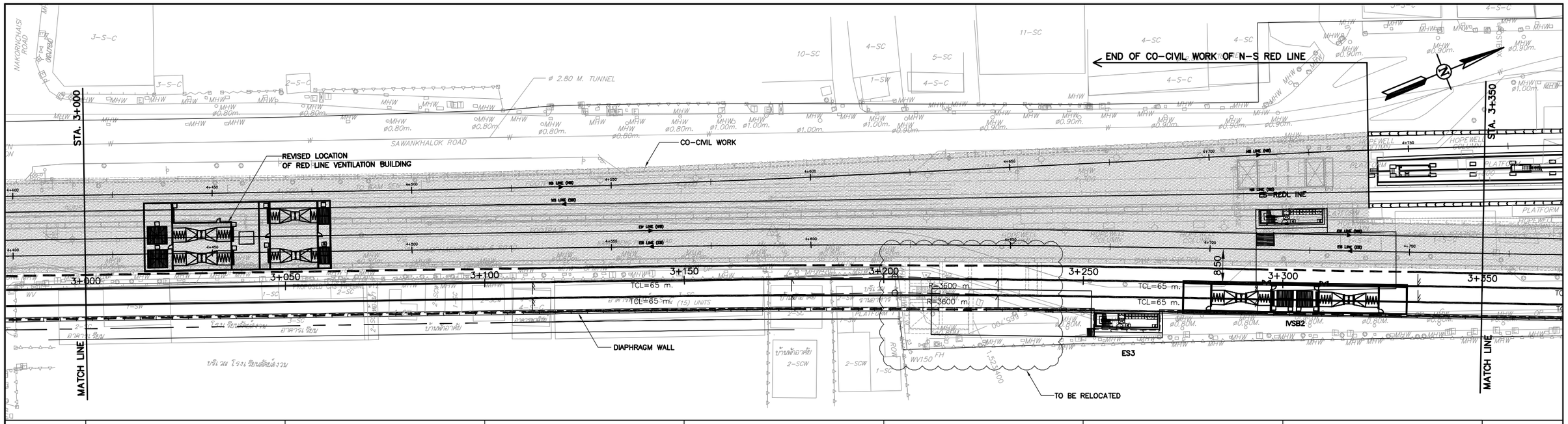
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

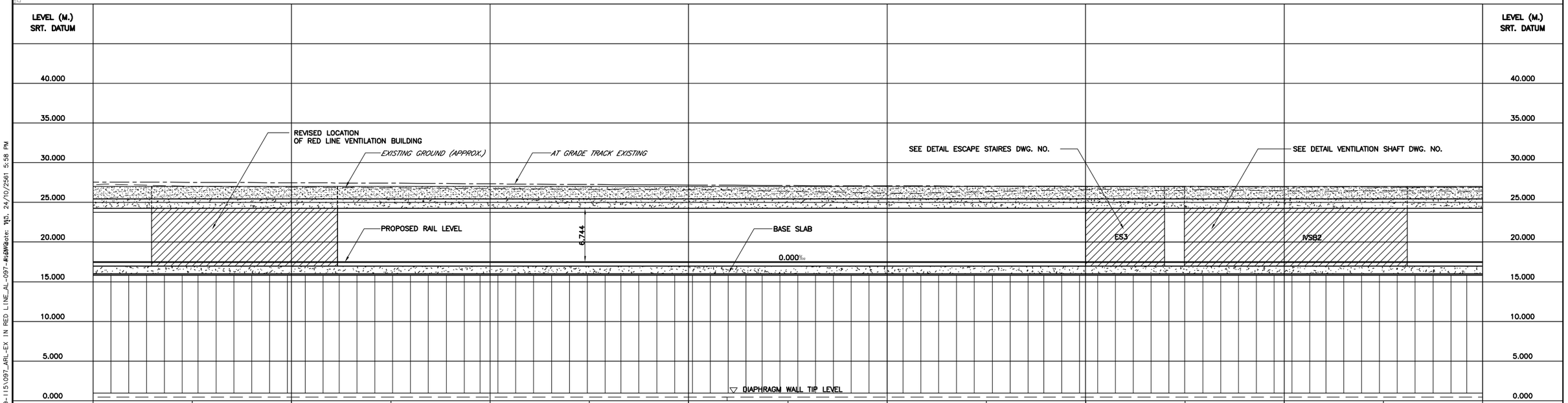
AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 2+650 TO STA. 3+000

DATE: OCTOBER 2018
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500
DRAWING NO.: AL-096-a
SHEET NO.: 096

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\096_ARL-EX IN RED LINE_AL-096-a.dwg Date: ตุลาคม 16/10/2561 8:06 PM





STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 3+000 TO STA. 3+350

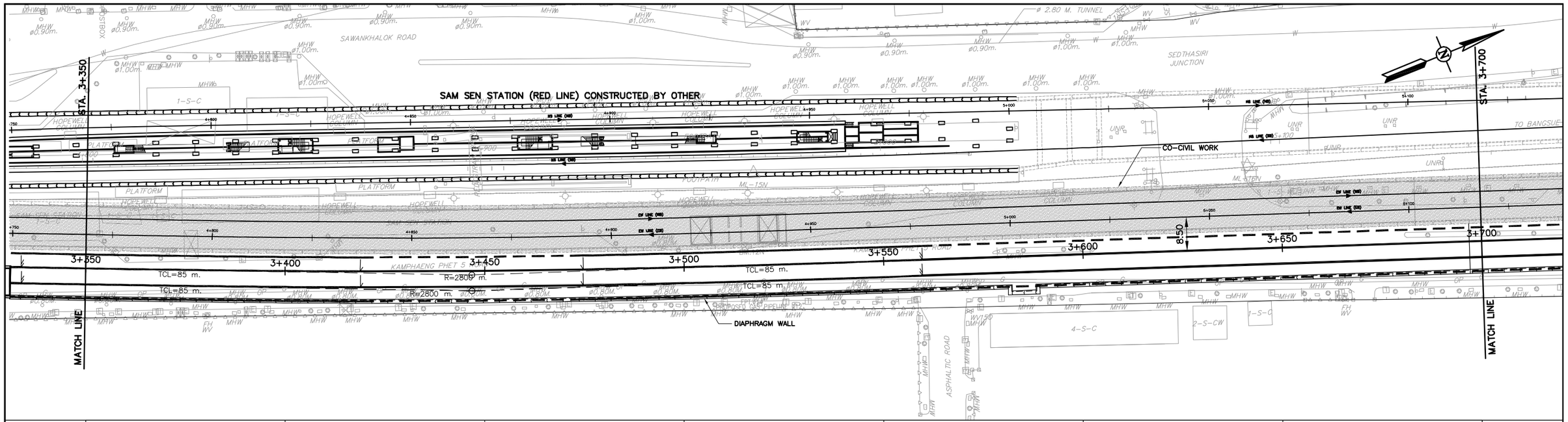
DATE: OCTOBER 2018

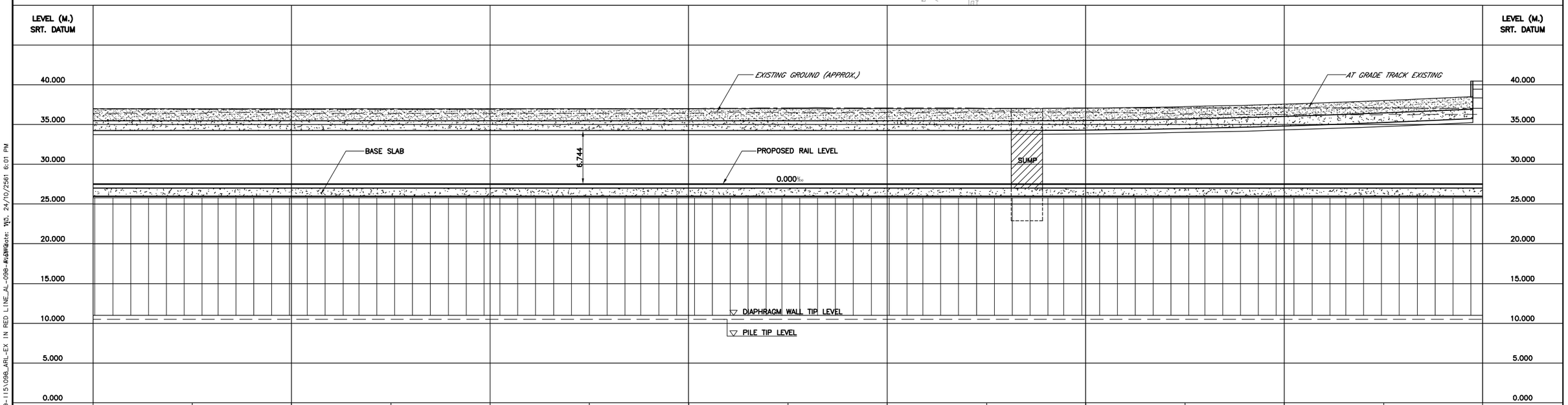
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500

DRAWING NO.: AL-097-a

SHEET NO.: 097

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\097_ARL-EX IN RED LINE_AL-097-a.dwg Date: พุธ, 24/10/2561 5:58 PM





TOP OF RAIL LEVEL	27.500	36.411	27.500	36.445	27.500	36.391	27.500	36.415	27.500	36.416	27.500	36.439	27.500	36.511	27.500	36.513	27.500	36.567	27.500	36.565	27.500	36.318	27.500	36.259	27.500	36.241
CHAINAGE	3+400				3+450				3+500				3+550				3+600				3+650					
WALL TYPE	DW6																									
BASE SLAB TYPE	BS3																									
STRUT/DECK TYPE	DS2																									
WALL FINISH TYPE	WF2																									
D-WALL TIP LEVEL	+10																									
PILE TYPE/TIP LEVEL	–																									

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

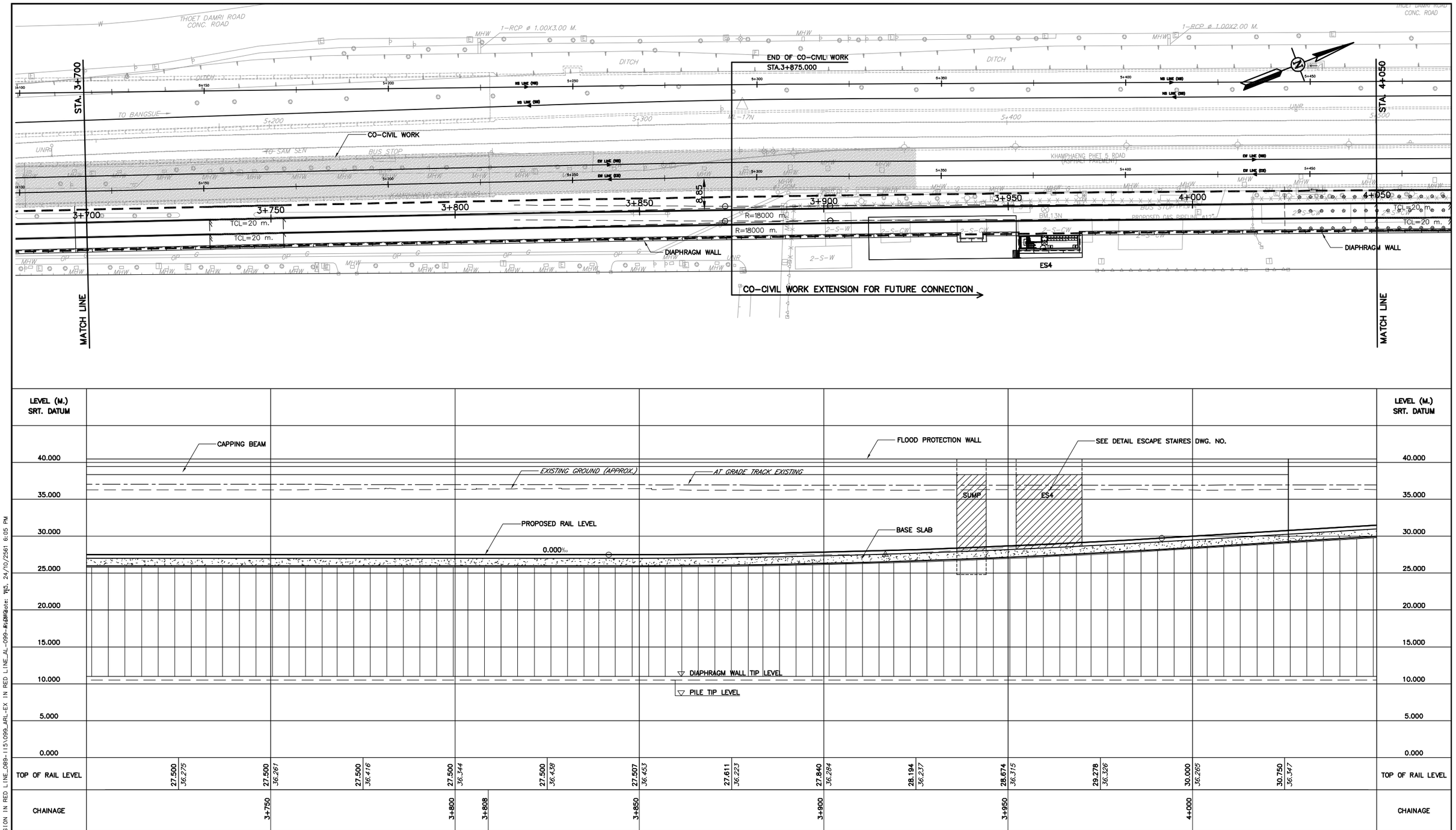
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 3+350 TO STA. 3+700

DATE: OCTOBER 2018
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500
DRAWING NO.: AL-098
SHEET NO.: 098

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\098_ARL-EX IN RED LINE_AL-098-R2.DWG Date: พ.ย. 24/10/2561 6:01 PM



TOP OF RAIL LEVEL	27.500	36.275	27.500	36.261	27.500	36.416	27.500	36.344	27.500	36.438	27.507	36.453	27.611	36.223	27.840	36.284	28.194	36.237	28.574	36.315	29.278	36.326	30.000	36.265	30.750	36.347	TOP OF RAIL LEVEL
CHAINAGE			3+750				3+800		3+808		3+850				3+900				3+950				4+000				CHAINAGE
WALL TYPE	DW6				DW6										DW6										–		WALL TYPE
BASE SLAB TYPE	BS3				BS3										BS3										BS3		BASE SLAB TYPE
STRUT/DECK TYPE	DS12				DS12										DS2										–		STRUT/DECK TYPE
WALL FINISH TYPE	WF2				WF2										WF2										WF2		WALL FINISH TYPE
D-WALL TIP LEVEL	+10				+10										+10										+11		D-WALL TIP LEVEL
PILE TYPE/TIP LEVEL	–				–										–										–		PILE TYPE/TIP LEVEL

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE: PLAN AND PROFILE
STA. 3+700 TO STA. 4+050

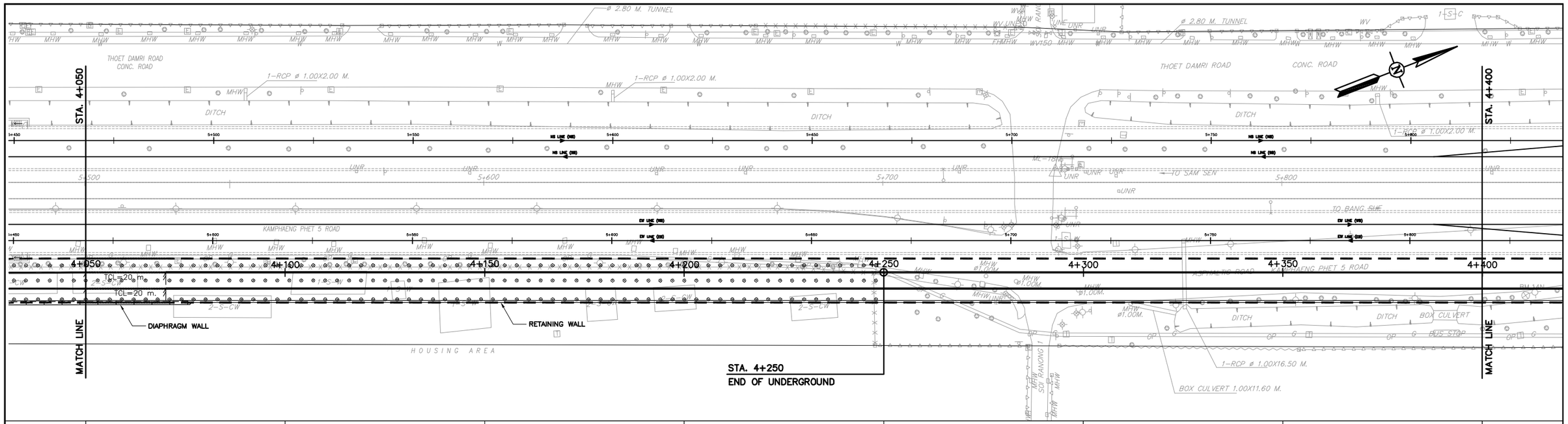
DATE: OCTOBER 2018

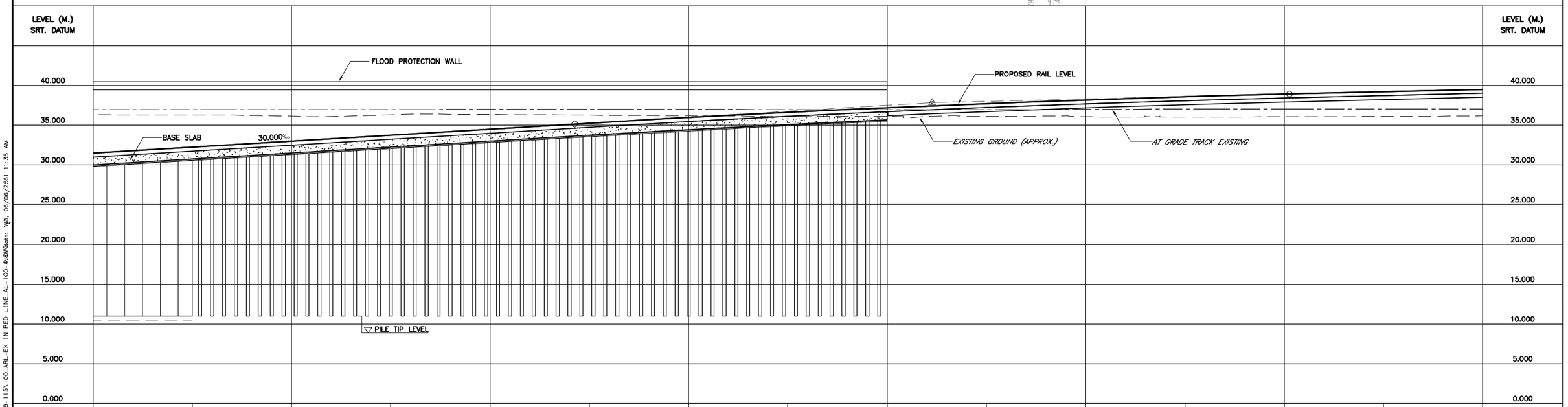
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500

DRAWING NO.: AL-099-a

SHEET NO.: 099

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE\089-115\099_ARL-EX IN RED LINE_AL-099-a.dwg Date: พุธ, 24/10/2561 6:05 PM





TOP OF RAIL LEVEL		32.250	36.259	33.000	36.118	33.750	36.299	34.500	36.348	35.249	36.264	35.959	36.184	36.606	36.085	37.190	36.121	37.712	36.102	38.172	36.084	38.569	36.026	38.903	36.049	39.203	36.094	TOP OF RAIL LEVEL
CHAINAGE		4+075		4+100				4+150				4+200				4+250				4+300				4+350				CHAINAGE
WALL TYPE	DW6	RW2								RW1								SEE ELEVATED STRUCTURE										WALL TYPE
BASE SLAB TYPE	BS3	BS2								BS1								SEE ELEVATED STRUCTURE										BASE SLAB TYPE
STRUT/DECK TYPE	–	–								–								SEE ELEVATED STRUCTURE										STRUT/DECK TYPE
WALL FINISH TYPE	WR2	WF1								WF1								SEE ELEVATED STRUCTURE										WALL FINISH TYPE
D-WALL TIP LEVEL	+11	–								–								SEE ELEVATED STRUCTURE										D-WALL TIP LEVEL
PILE TYPE/TIP LEVEL	–	BP1/+11								BP1/+11								SEE ELEVATED STRUCTURE										PILE TYPE/TIP LEVEL

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

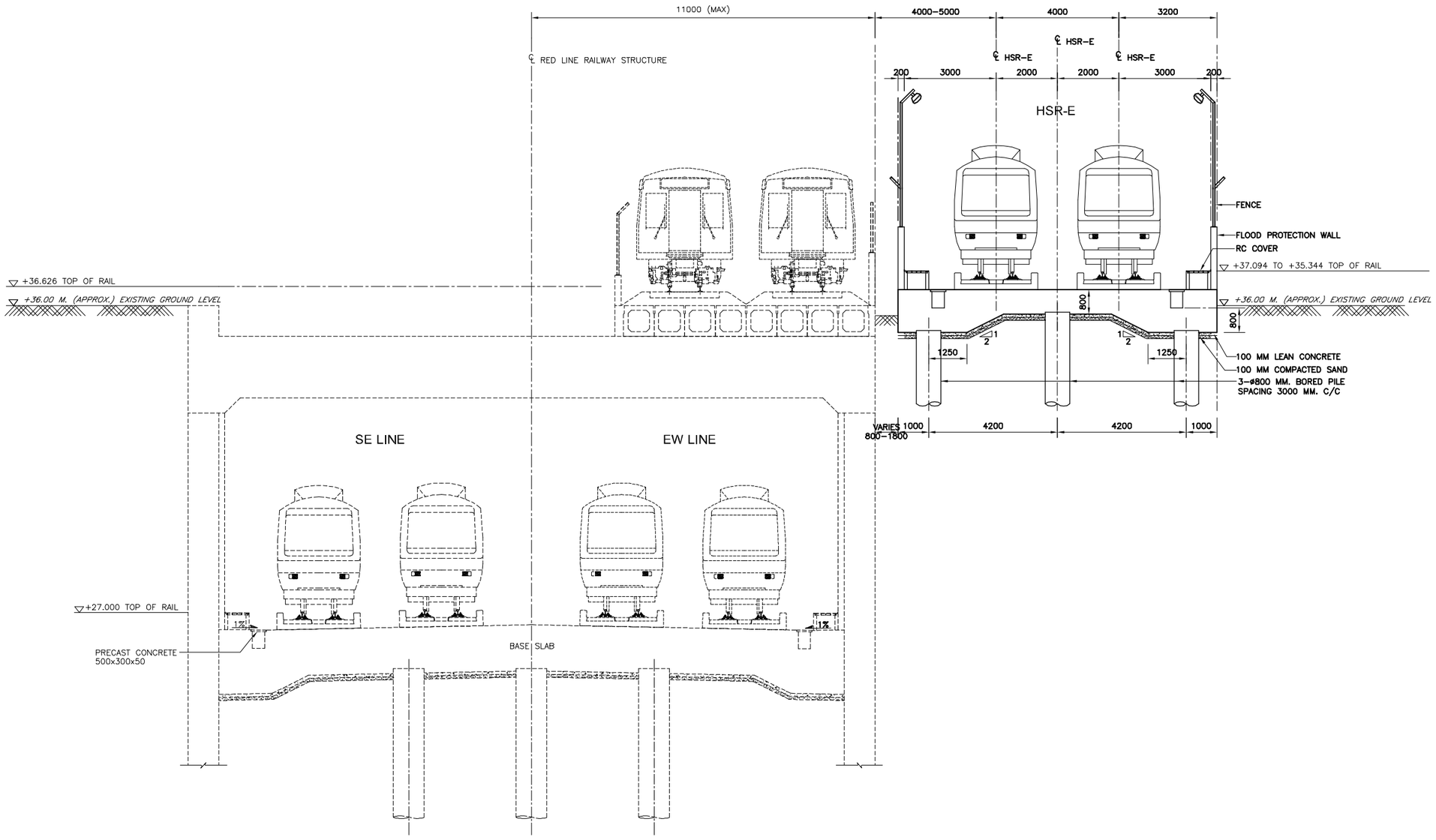
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE:
PLAN AND PROFILE
STA. 4+050 TO STA. 4+400

DATE: OCTOBER 2018
SCALE: A1 : H=1:500 V=1:250
A3 : H=1:1000 V=1:500
DRAWING NO.: AL-100-a
SHEET NO.: 100

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\100_ARL-EX IN RED LINE_AL-100-a.dwg Date: 06/06/2561 11:35 AM



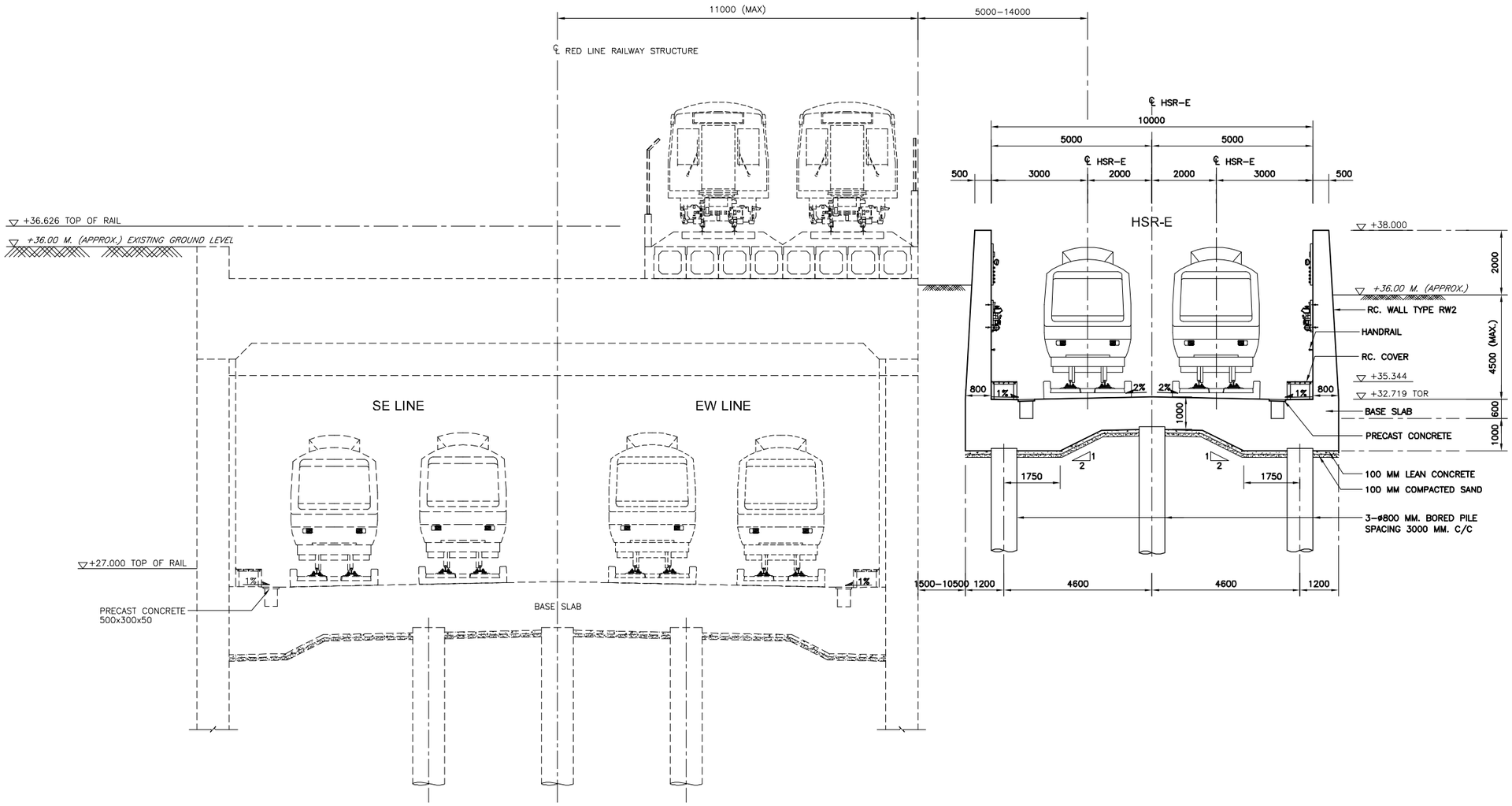
TYPICAL SECTION – STA. 0+700 TO 0+750

SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR–E IS THE HIGH–SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\101_SECTION_AL-101.dwg Date: พ.ย. 24/10/2561 4:50 PM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION STA. 0+700 TO 0+750	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL–101–a	SHEET NO. : 101



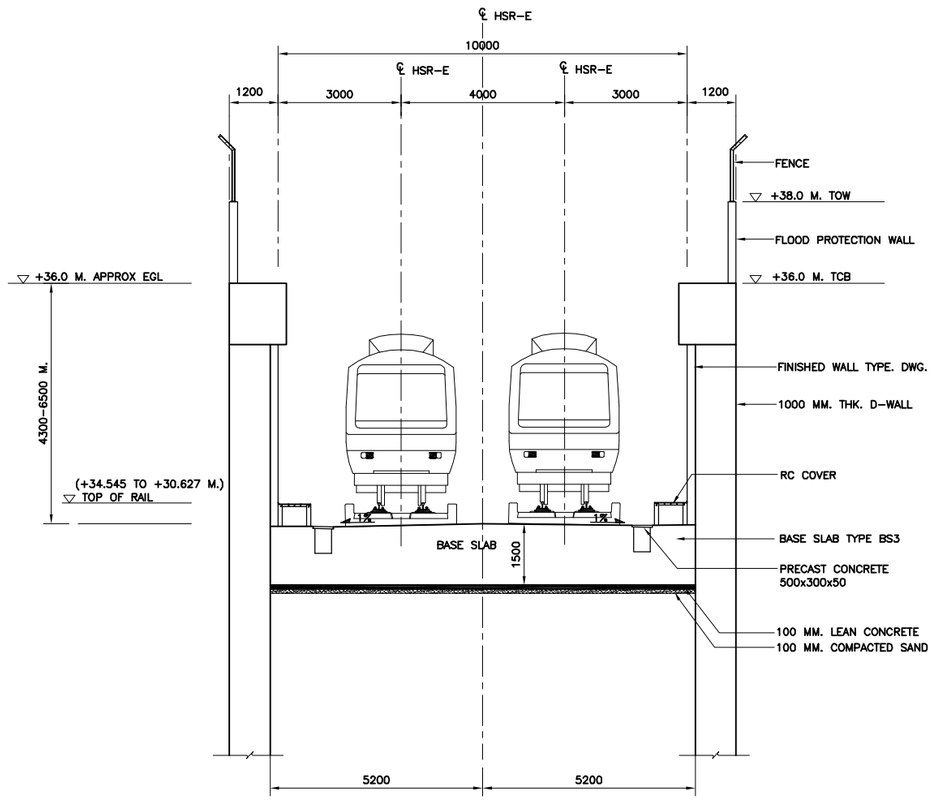
TYPICAL SECTION – STA. 0+750 TO 0+825

SCALE A1 = 1 : 75
A3 = 1 : 150

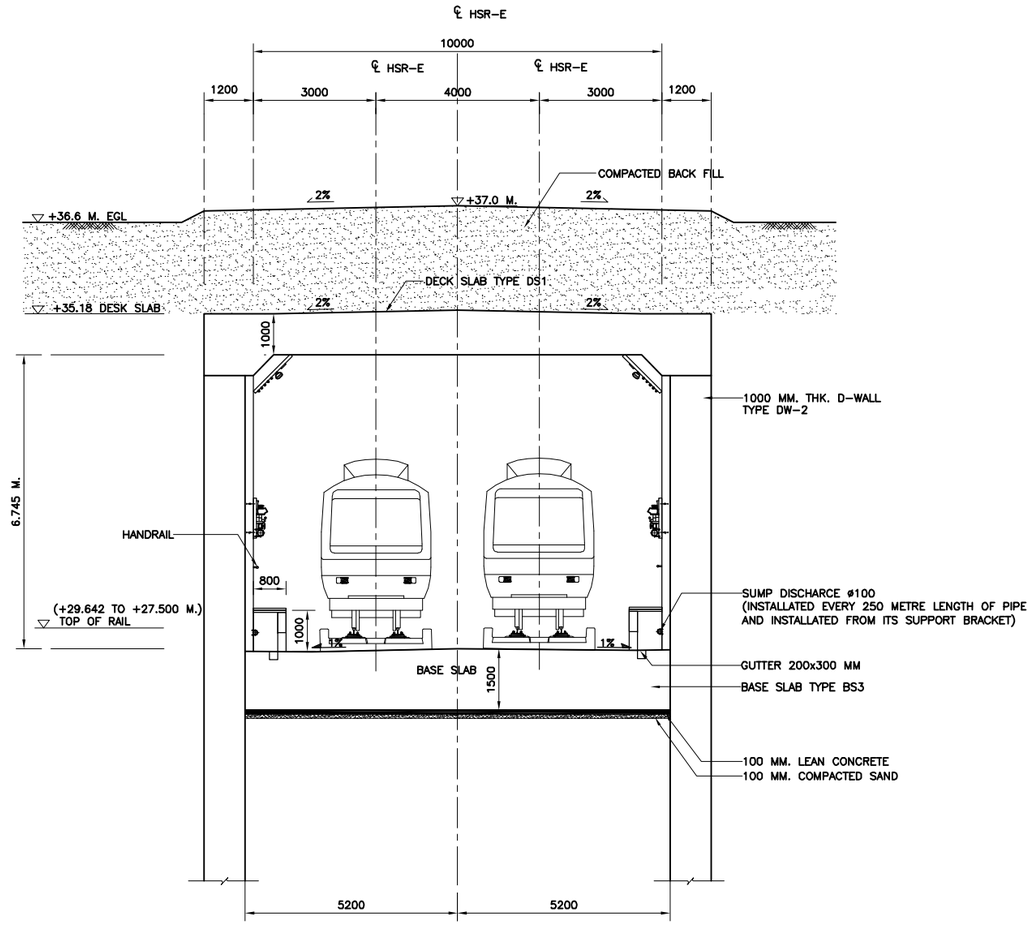
REMARK : HSR–E IS THE HIGH–SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\102_SECTION_AL-102PLAN.DWG Date: พ.5, 24/10/2561 6:13 PM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION STA. 0+750 TO 0+825	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL–102–a	SHEET NO. : 102



TYPICAL SECTION-OPEN TRENCH STRUCTURE STA. 0+825 TO 0+935
SCALE
A1 = 1 : 75
A3 = 1 : 150



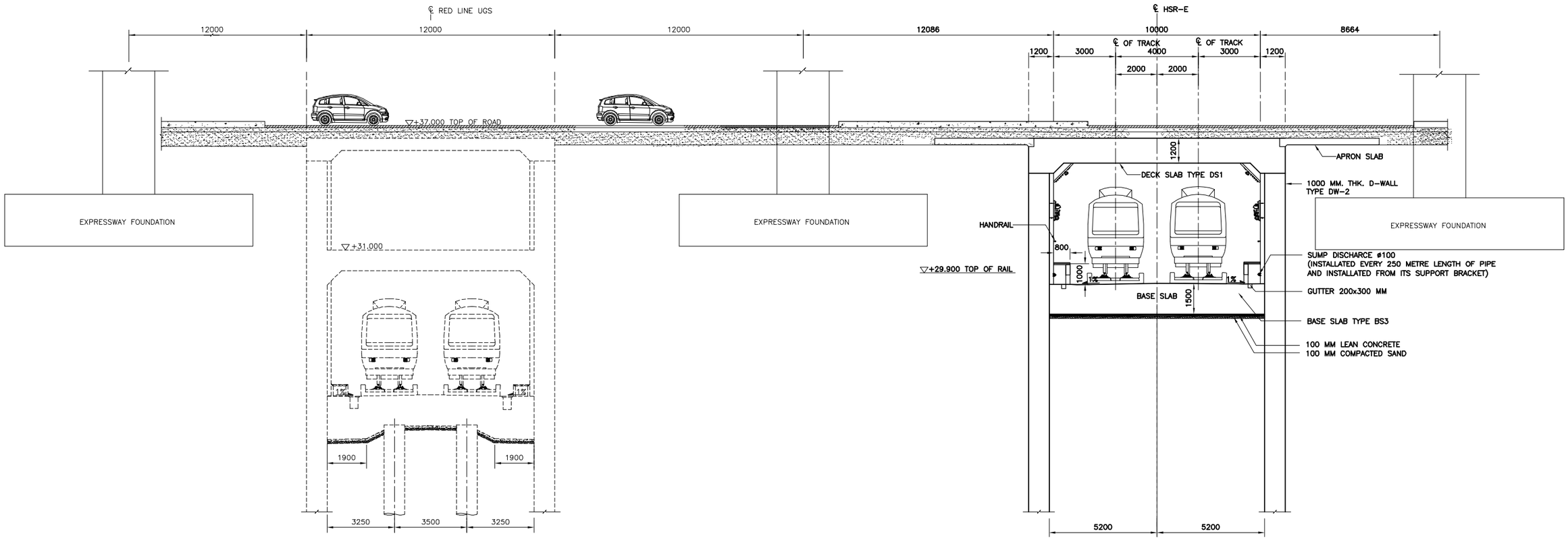
TYPICAL SECTION-CUT AND COVER TUNNEL STA. 0+990 TO 1+380
SCALE
A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

———— CONSTRUCTION IN 3 AIRPORTS PROJECTS

- - - - - - - - CONSTRUCTION IN THE OTHER PROJECT

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION STA. 0+825 TO 0+935 AND STA. 0+990 TO 1+380	DATE : OCTOBER 2018 DRAWING NO. : AL-103-a	SCALE : AS SHOWN SHEET NO. : 103

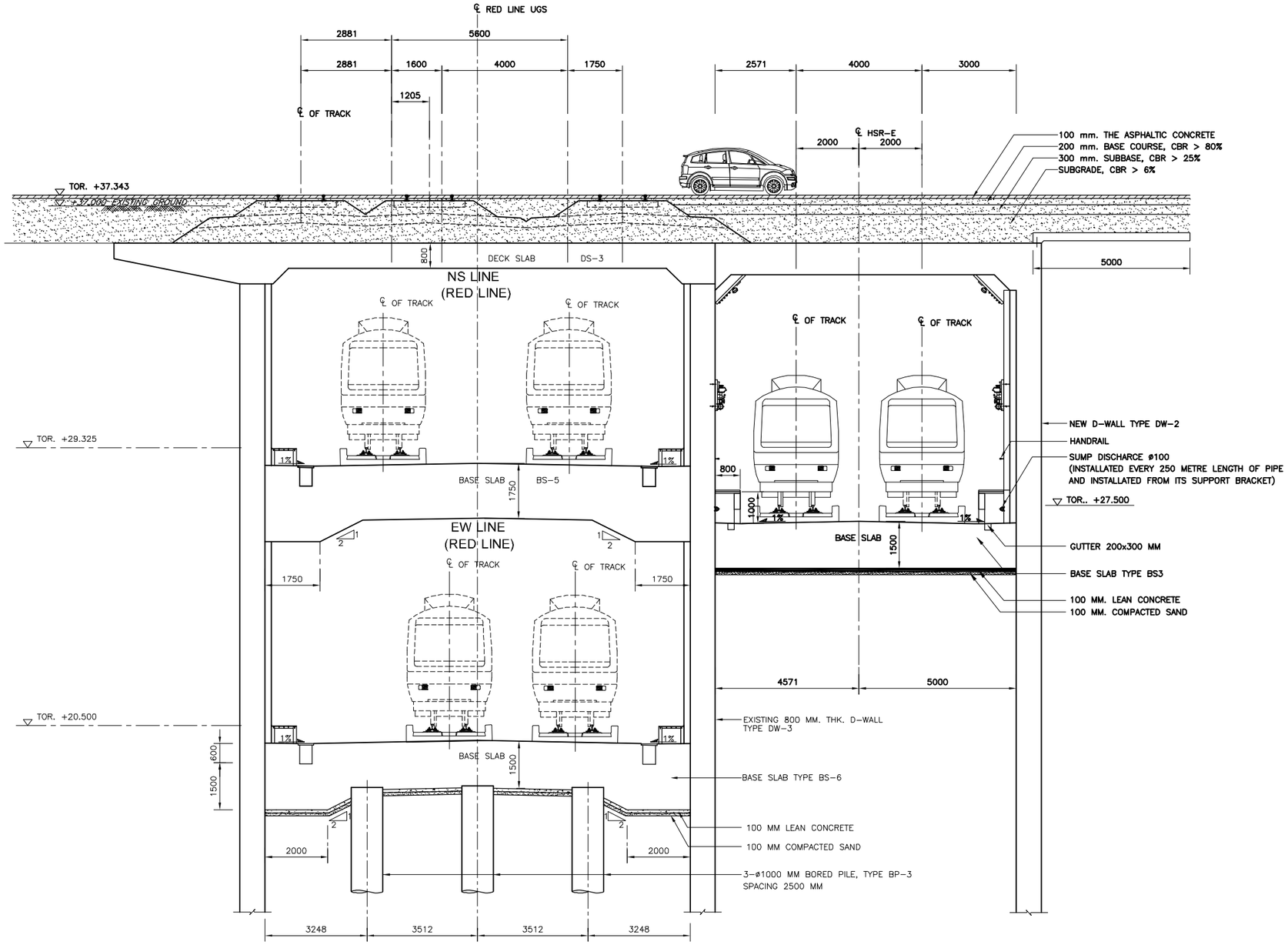


SECTION STA. 0+975

SCALE
A1 = 1 : 100
A3 = 1 : 200

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

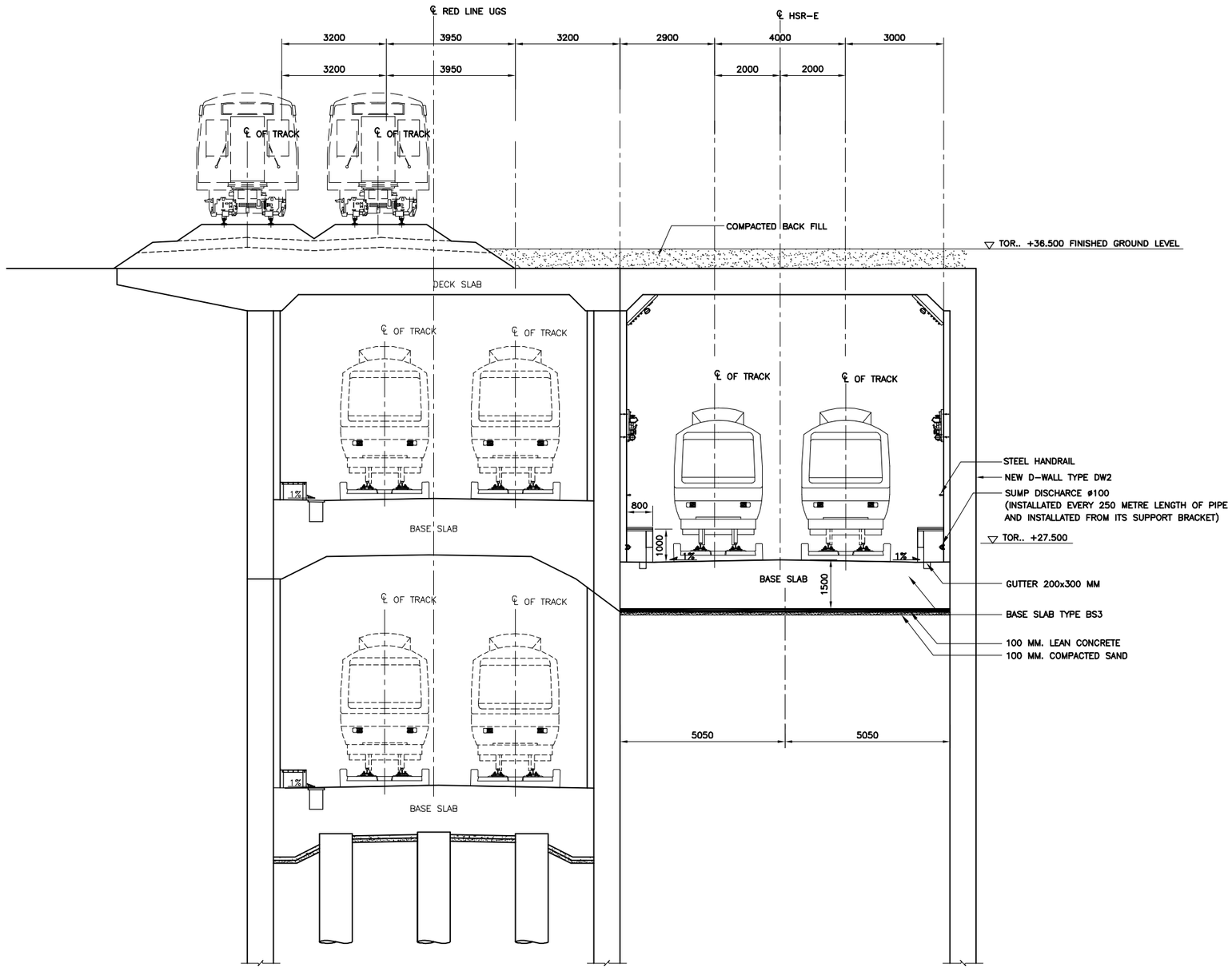
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 0+975	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-104-a	SHEET NO. : 104



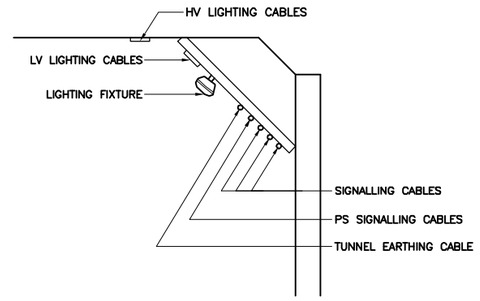
SECTION STA. 1+400
SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

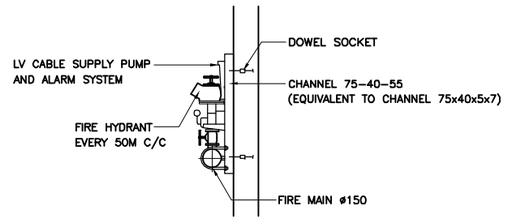
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 1+400	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-105-a	SHEET NO. : 105



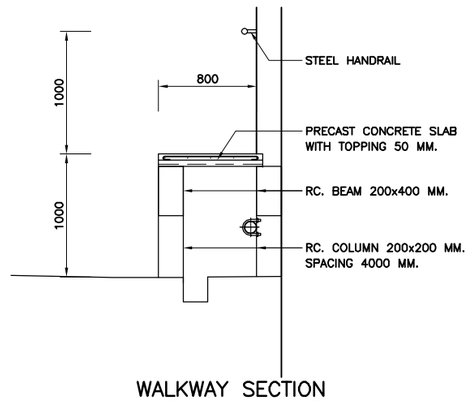
TYPICAL SECTION STA. 1+420 TO 1+790
SCALE A1 = 1 : 75
A3 = 1 : 150



DETAIL 1
SCALE A1 = 1:25
A3 = 1:50



DETAIL 2
SCALE A1 = 1:25
A3 = 1:50

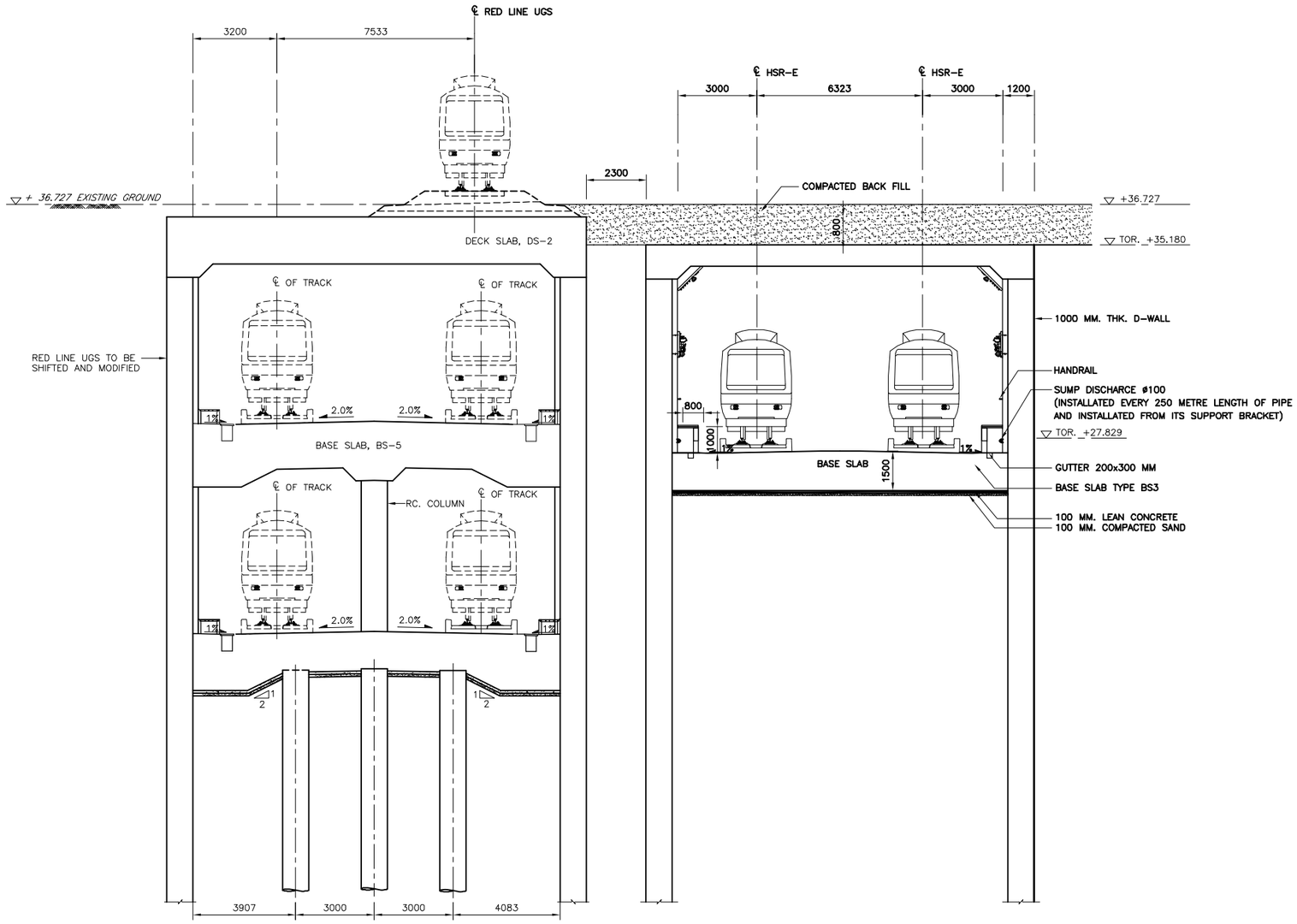


WALKWAY SECTION
SCALE A1 = 1:25
A3 = 1:50

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\106_SECTION_AL-106.dwg Date: พุธ, 13/06/2561 11:09 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION STA. 1+420 TO 1+790	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-106-a	SHEET NO. : 106



SECTION STA. 2+110

SCALE A1 = 1 : 100
A3 = 1 : 200

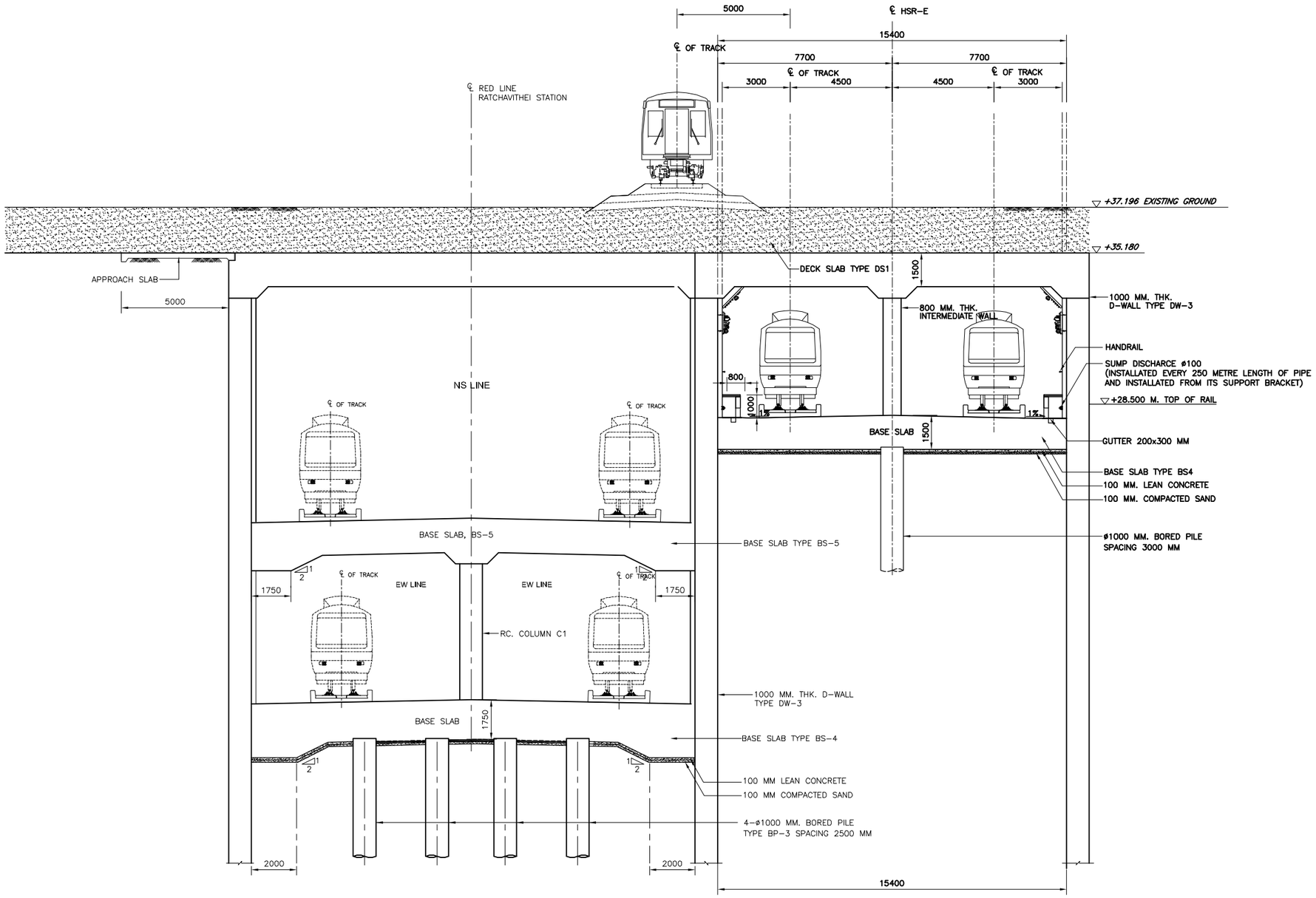
REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

——— CONSTRUCTION IN 3 AIRPORTS PROJECTS

- - - - - - CONSTRUCTION IN THE OTHER PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\107_SECTION_AL-107PLAN.DWG Date: 24/10/2561 9:26 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+110	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-107-a	SHEET NO. : 107



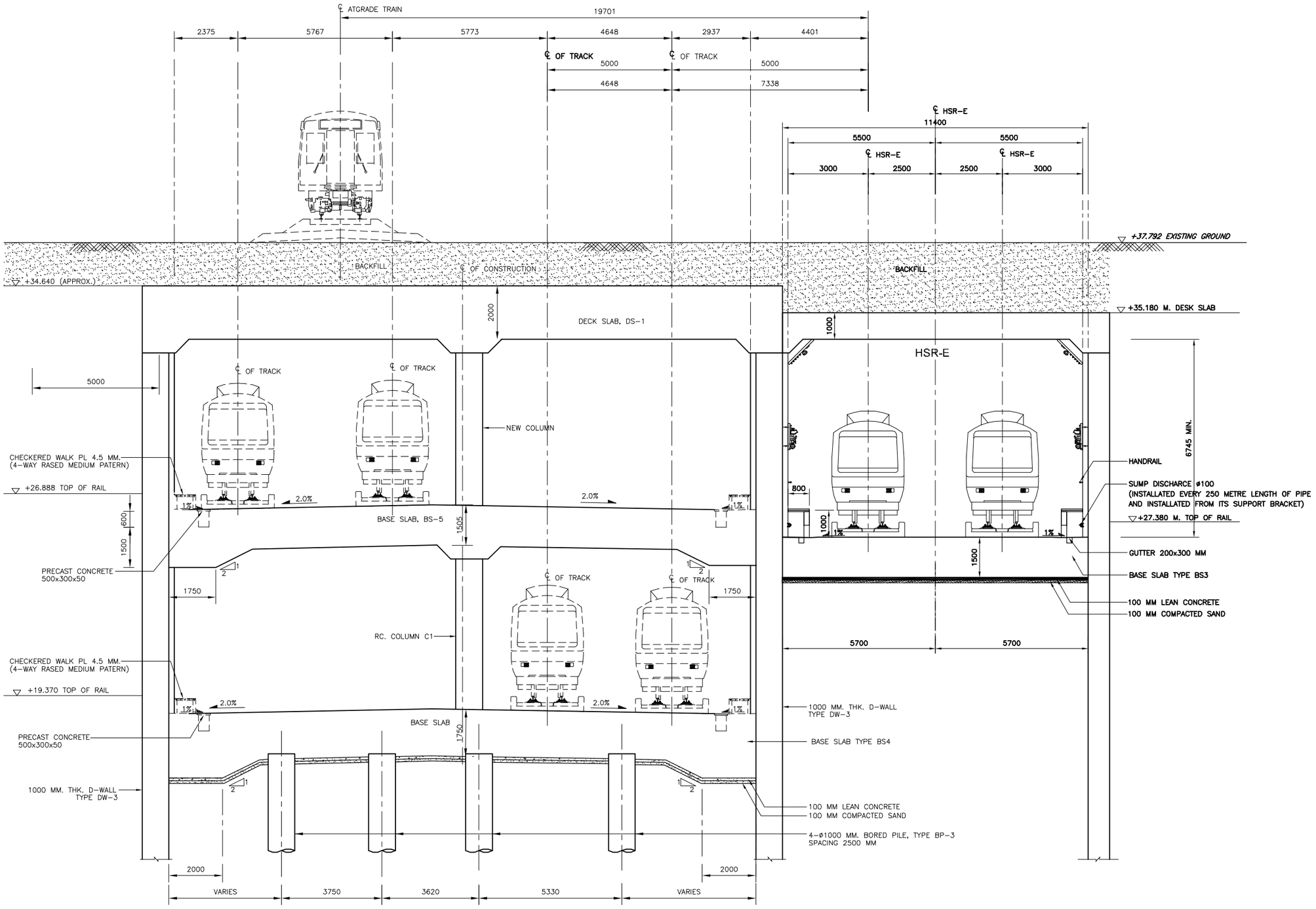
SECTION STA. 2+600

SCALE A1 = 1 : 100
A3 = 1 : 200

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\108_SECTION_AL-108.dwg Date: พุธ, 13/06/2561 11:28 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+600	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-108-a	SHEET NO. : 108

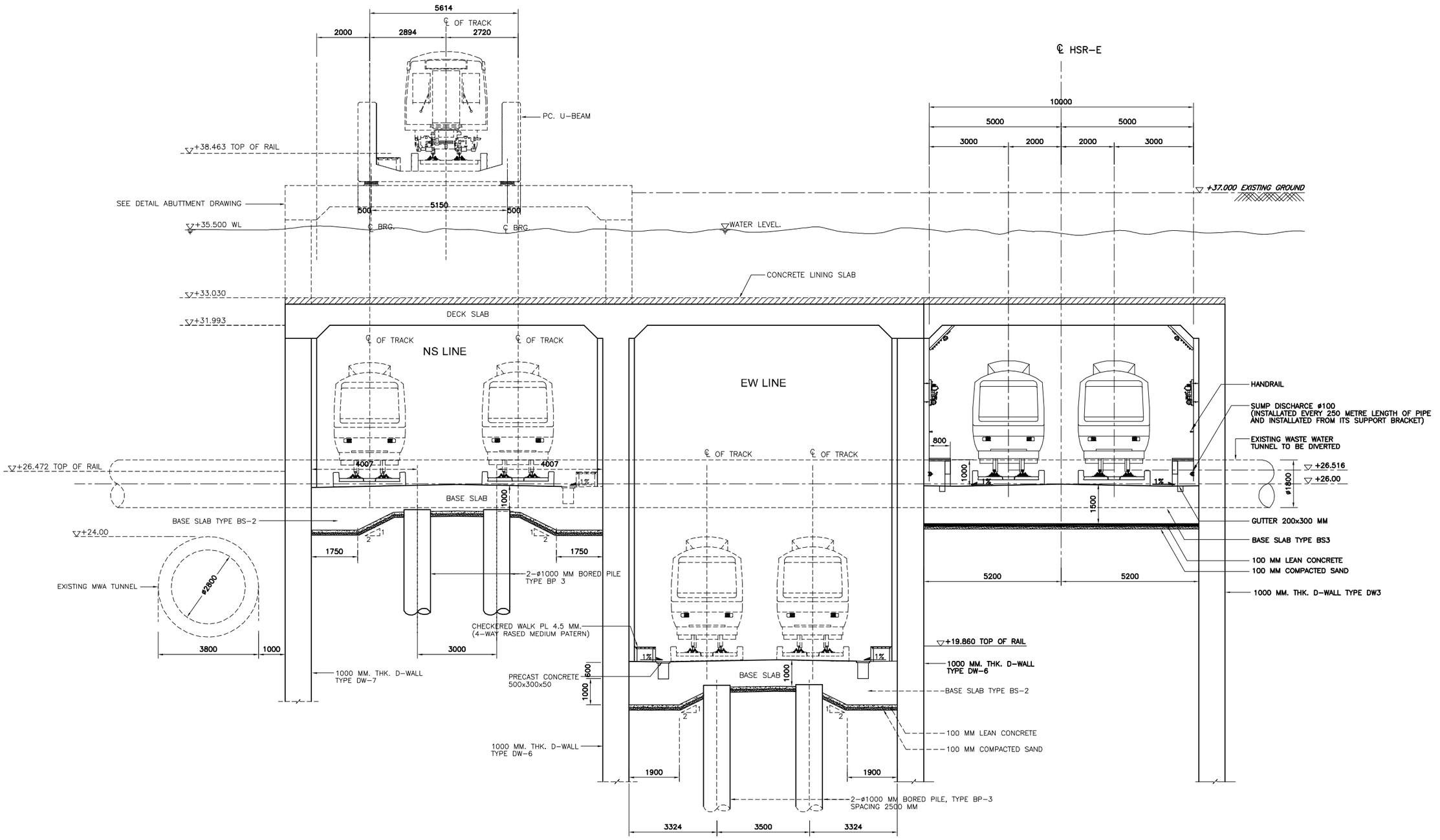


SECTION STA. 2+700
SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\109_SECTION_AL-109.DWG Date: 13/06/2561 11:32 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+700	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-109-a	SHEET NO. : 109



SECTION STA. 2+760

SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\110_SECTION_AL-110.DWG Date: พฤหัสบดี, 11/10/2561 4:53 PM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+760	DATE : OCTOBER 2018	SCALE : AS SHOWN
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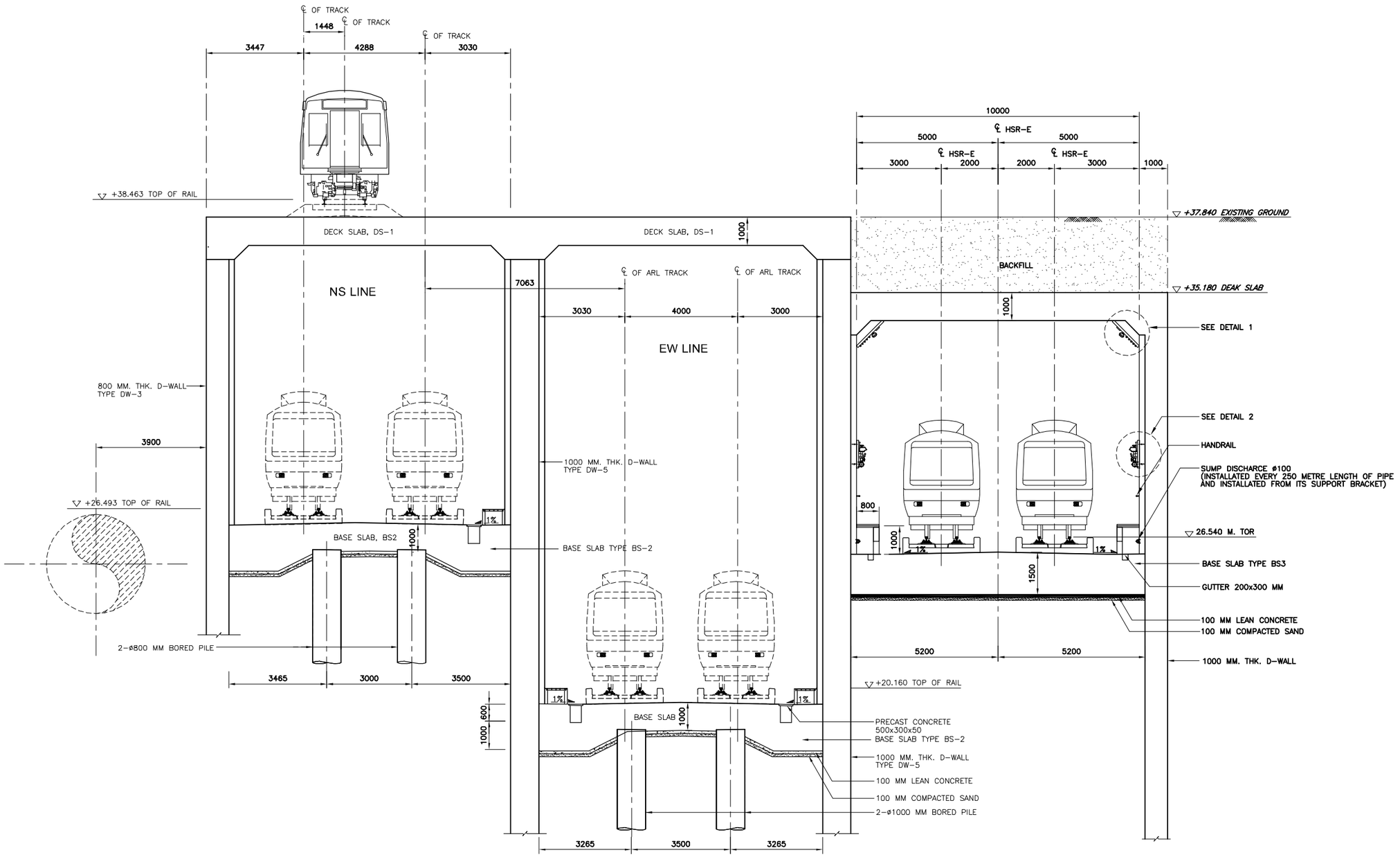


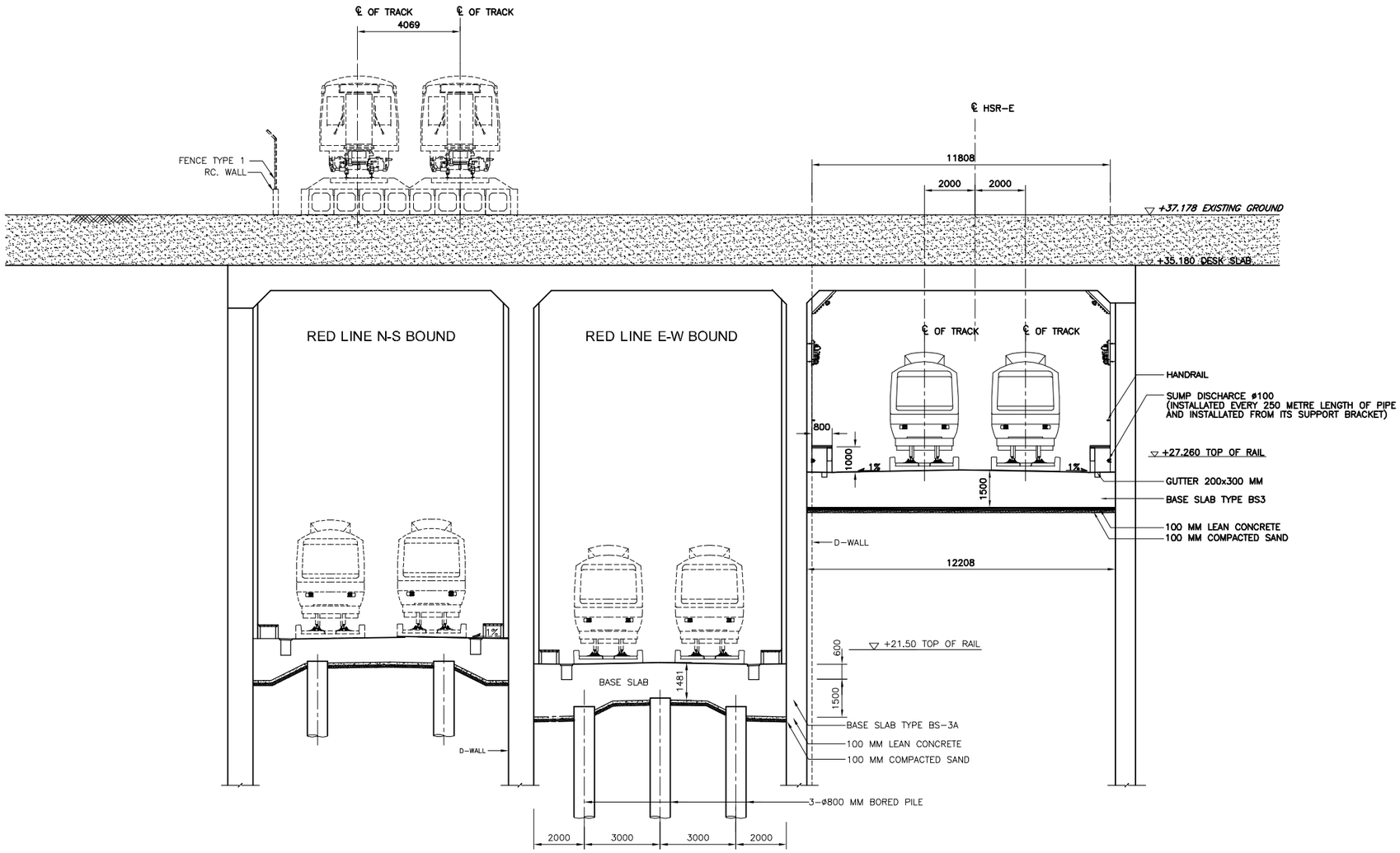
SECTION STA. 2+800

SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_D89-115\111_SECTION_AL-111 Date: 24/10/2561 9:29 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+800	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-111-a	SHEET NO. : 111



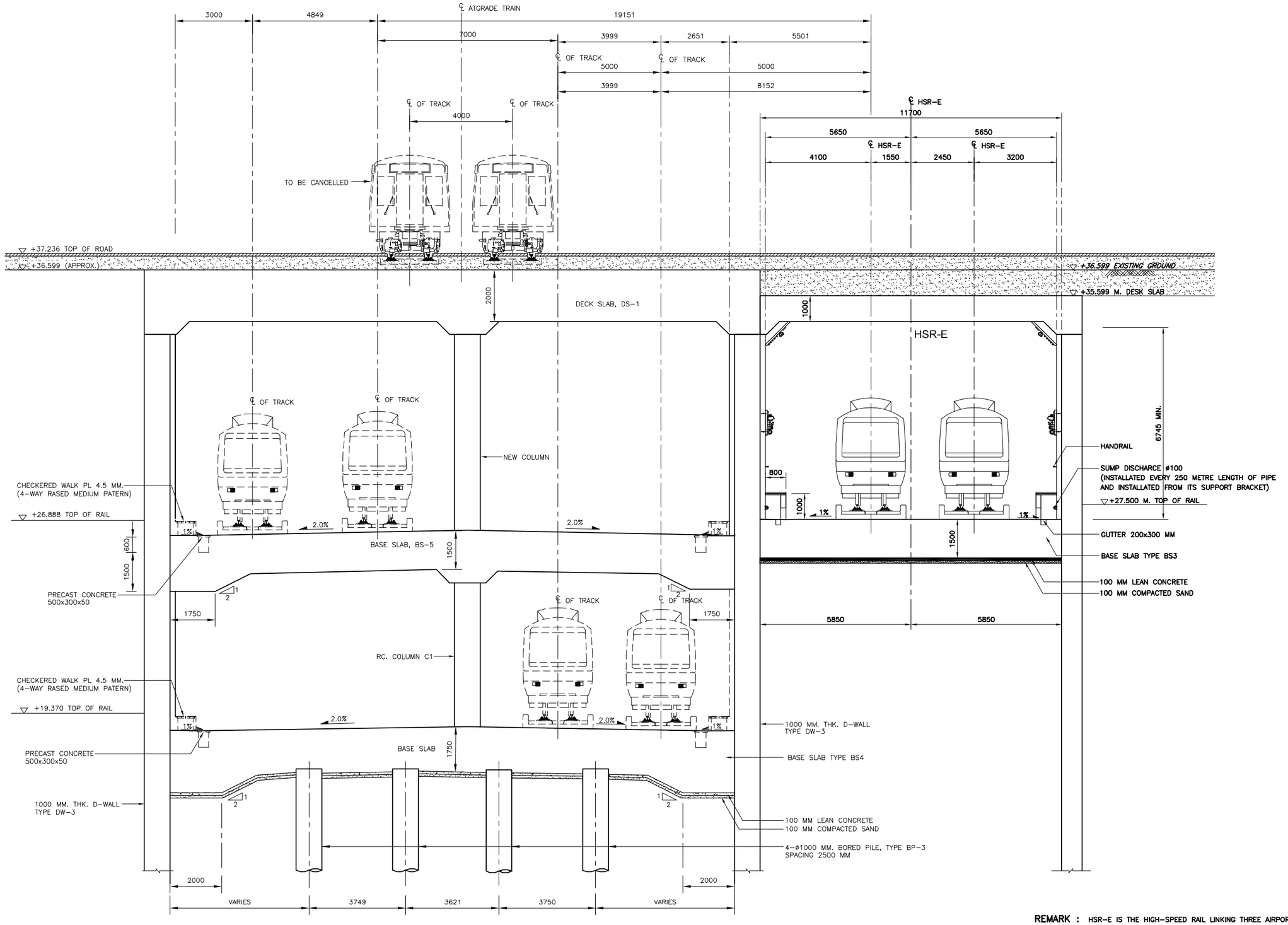
SECTION STA. 2+920

SCALE
A1 = 1 : 100
A3 = 1 : 200

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\112_SECTION_AL-112\PLAN&DWG\ date: ตุลาคม, 16/10/2561 3:04 PM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 2+920	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-112-a	SHEET NO. : 112



REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

SECTION STA. 3+150

SCALE A1 = 1 : 75
A3 = 1 : 150

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 3+150	DATE : OCTOBER 2018	SCALE : AS SHOWN
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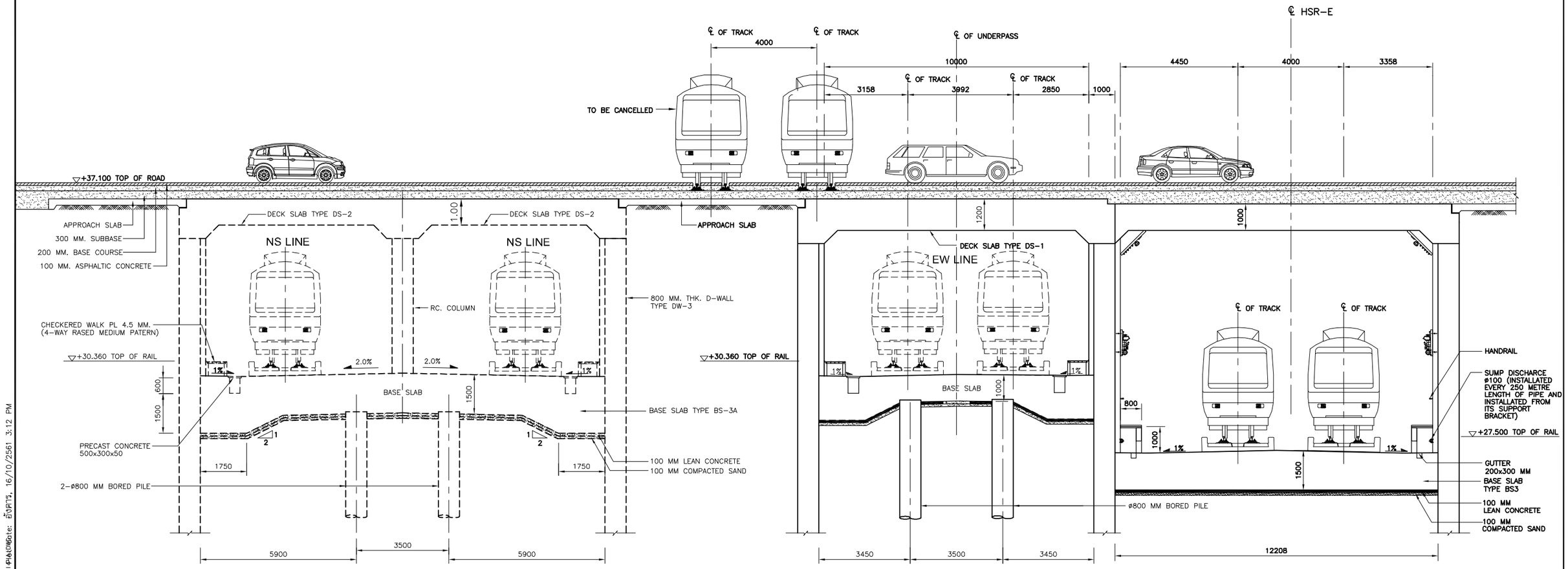


SECTION STA. 3+625

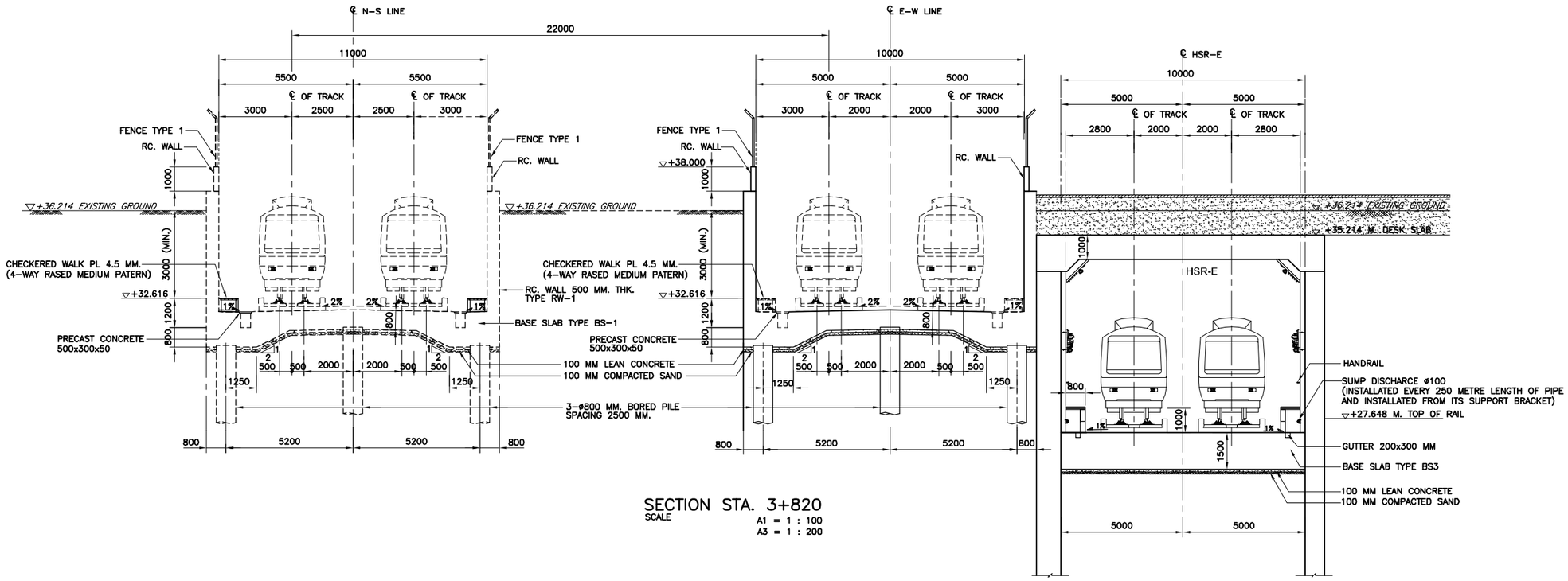
SCALE A1 = 1 : 75
A3 = 1 : 150

REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

——— CONSTRUCTION IN 3 AIRPORTS PROJECTS

– – – – – CONSTRUCTION IN THE OTHER PROJECT

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 3+625	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-114-a	SHEET NO. : 114



SECTION STA. 3+820

SCALE
A1 = 1 : 100
A3 = 1 : 200

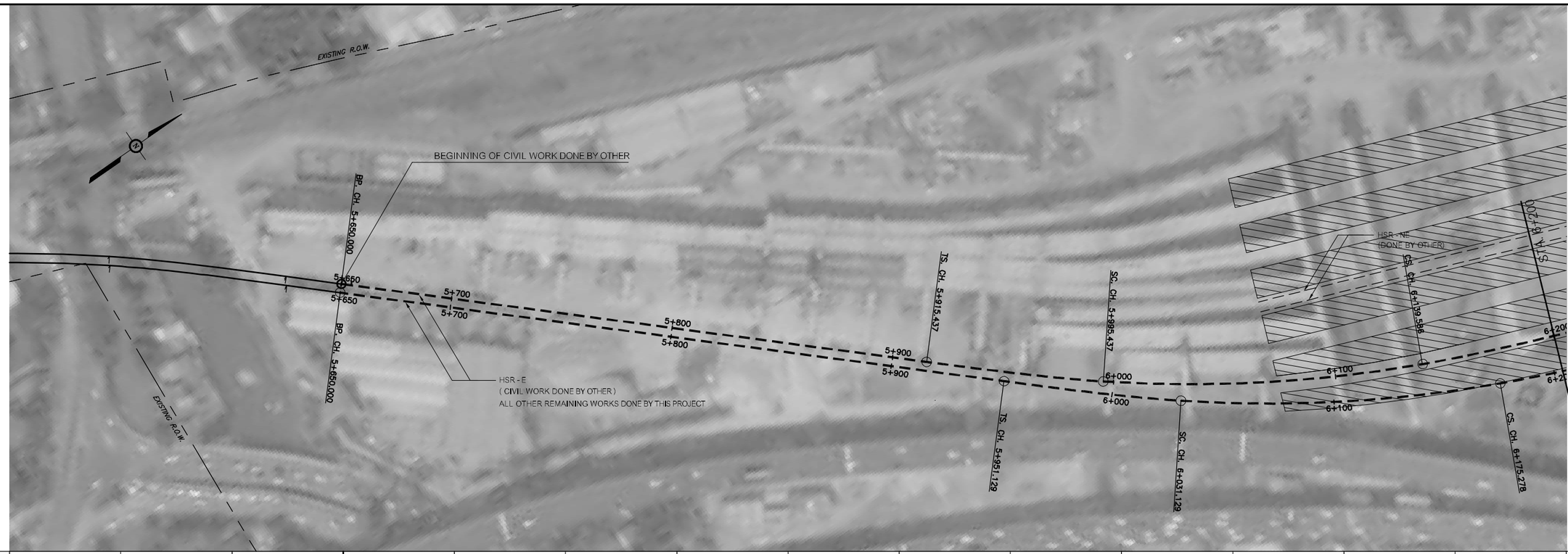
REMARK : HSR-E IS THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

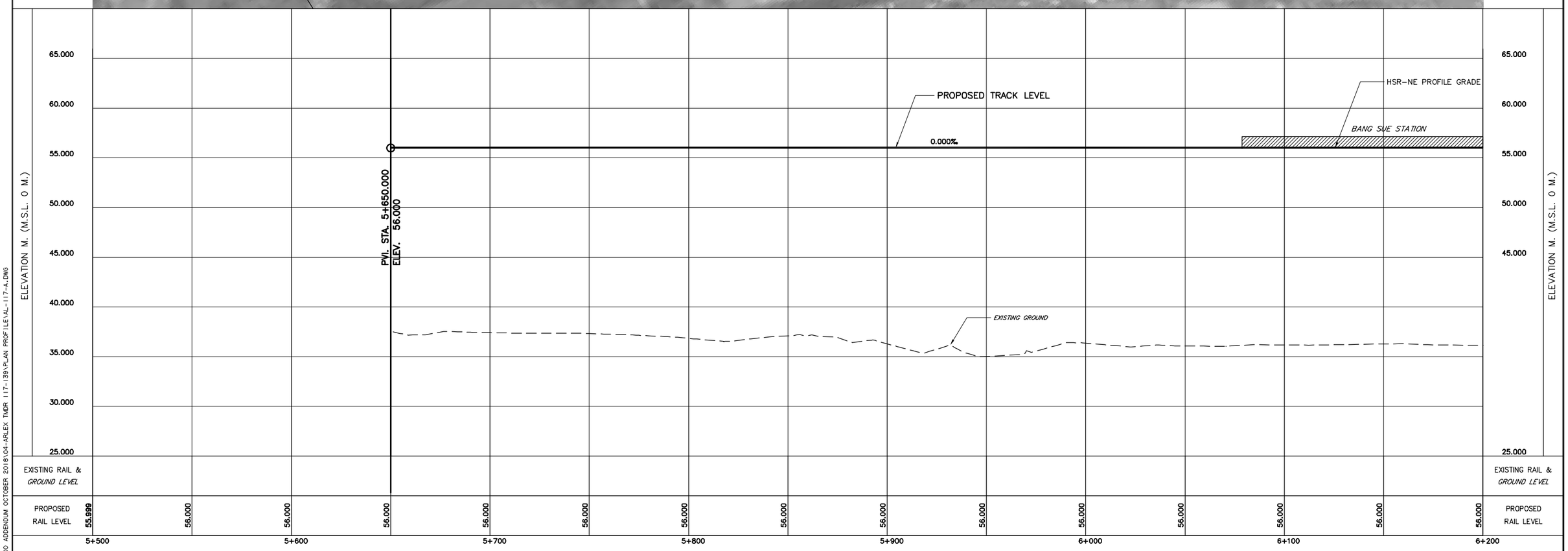
——— CONSTRUCTION IN 3 AIRPORTS PROJECTS

— — — CONSTRUCTION IN THE OTHER PROJECT

D:\AEC\1462-PPTA\00 ADDENDUM OCTOBER 2018\03-ARL-EXTENSION IN RED LINE_089-115\115_SECTION_AL-115.DWG Date: 17/10/2561 11:33 AM

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	AEC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SECTION STA. 3+820	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : AL-115-a	SHEET NO. : 115





STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 5+650 TO STA. 6+200

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-117-a	117

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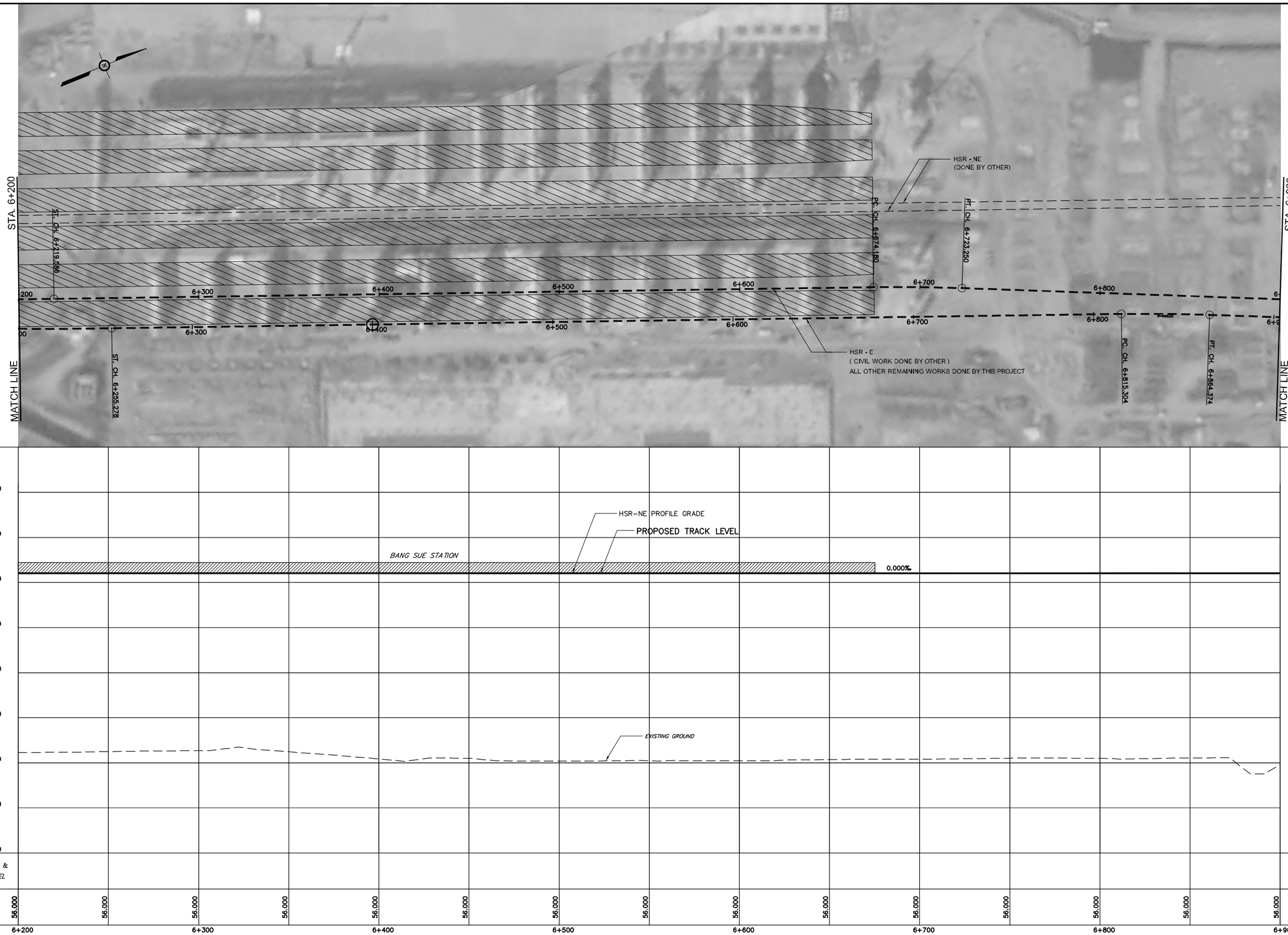

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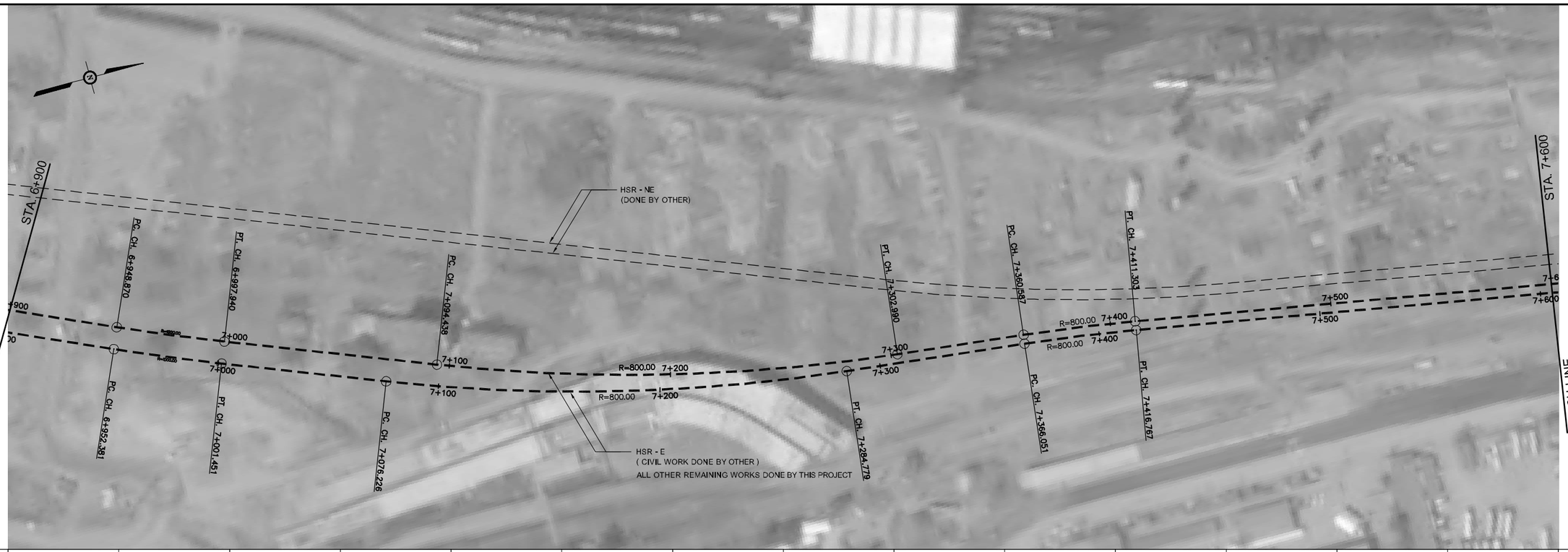
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

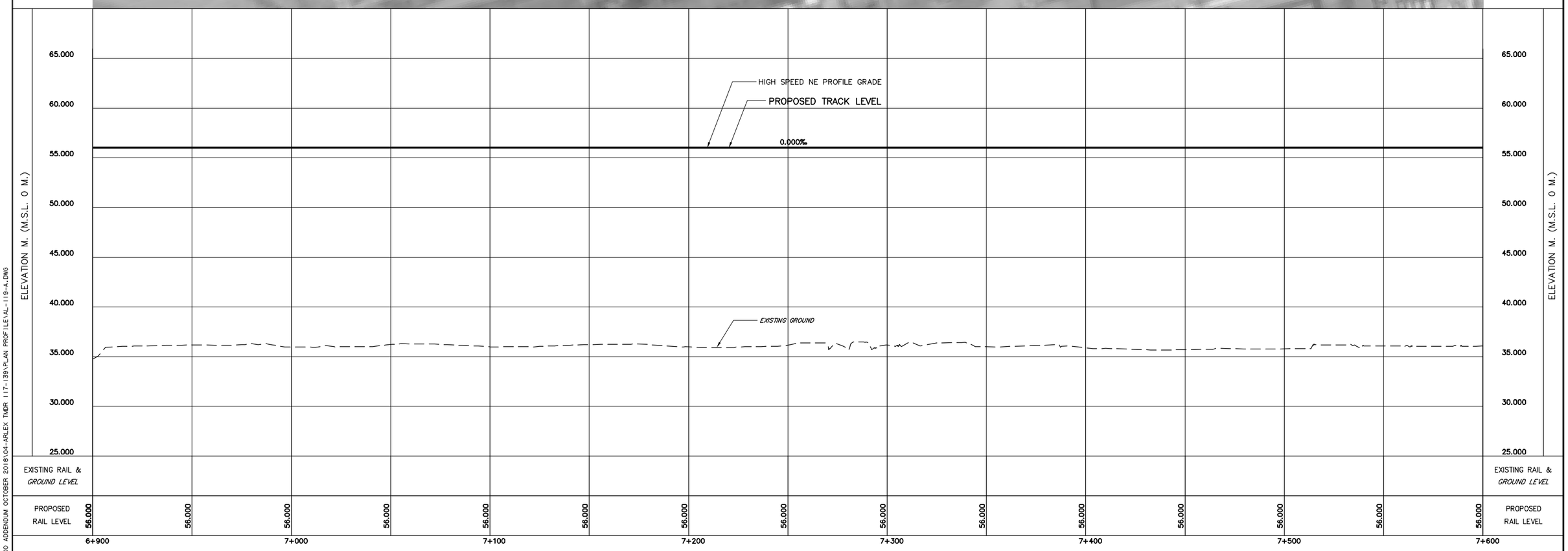
THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 6+200 TO STA. 6+900

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-118-a
SHEET NO. : 118





STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 6+900 TO STA. 7+600

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-119-a	119

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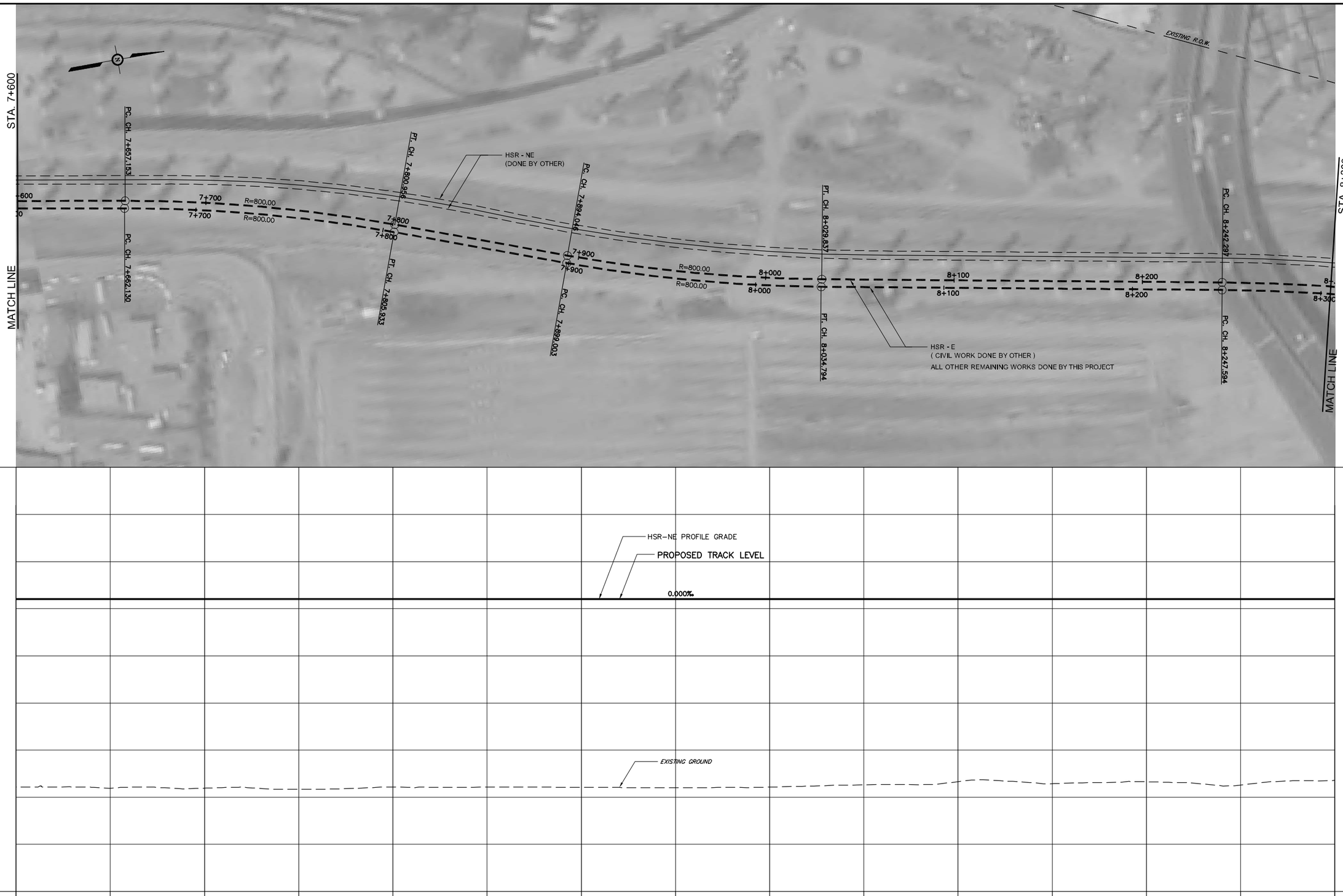

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 7+600 TO STA. 8+300

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-120-a	120

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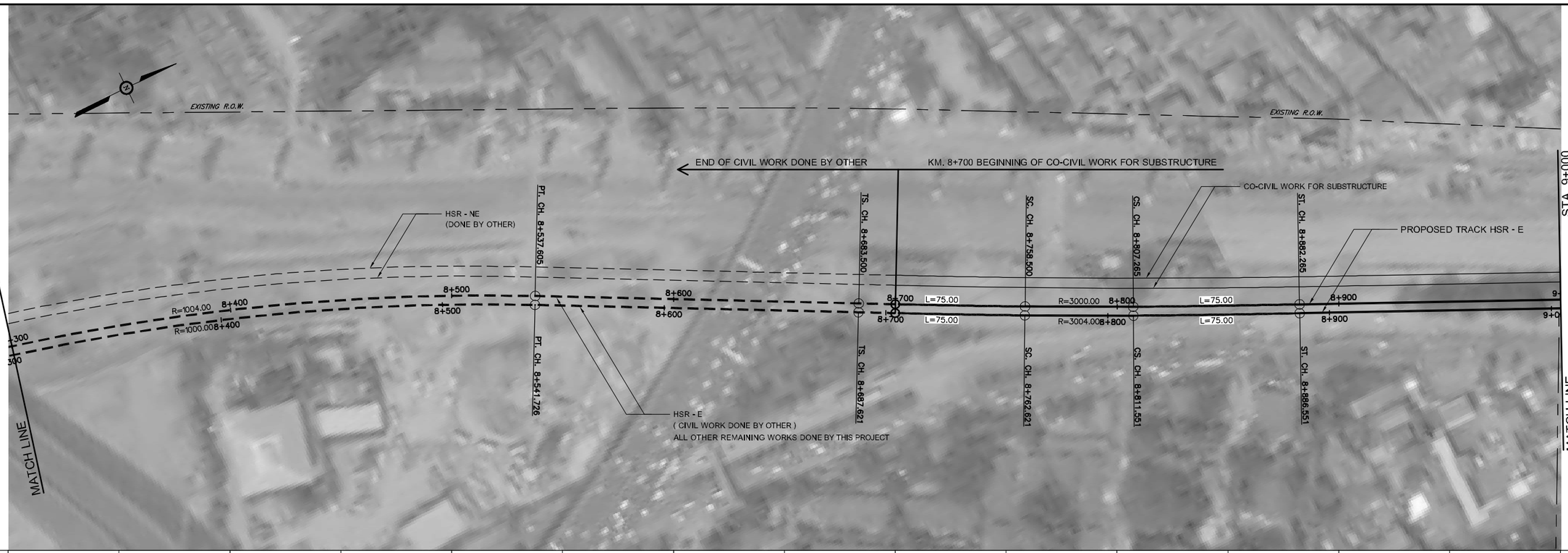

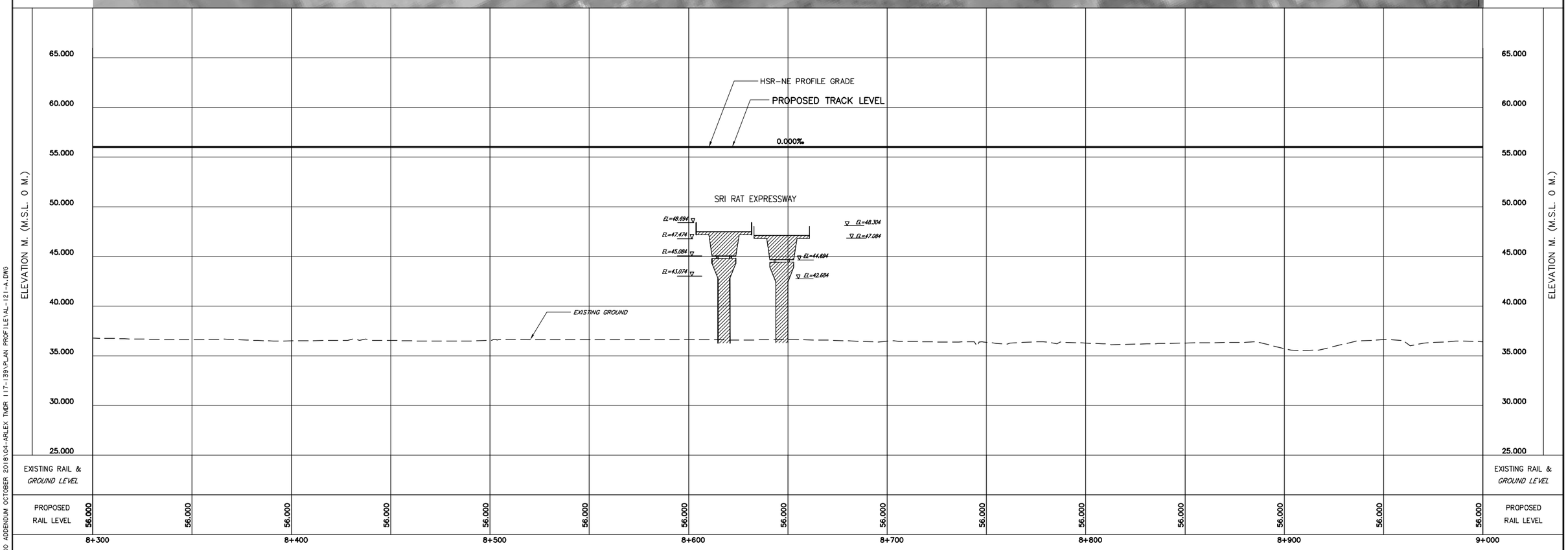

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 8+300 TO STA. 9+000

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-121-a	121

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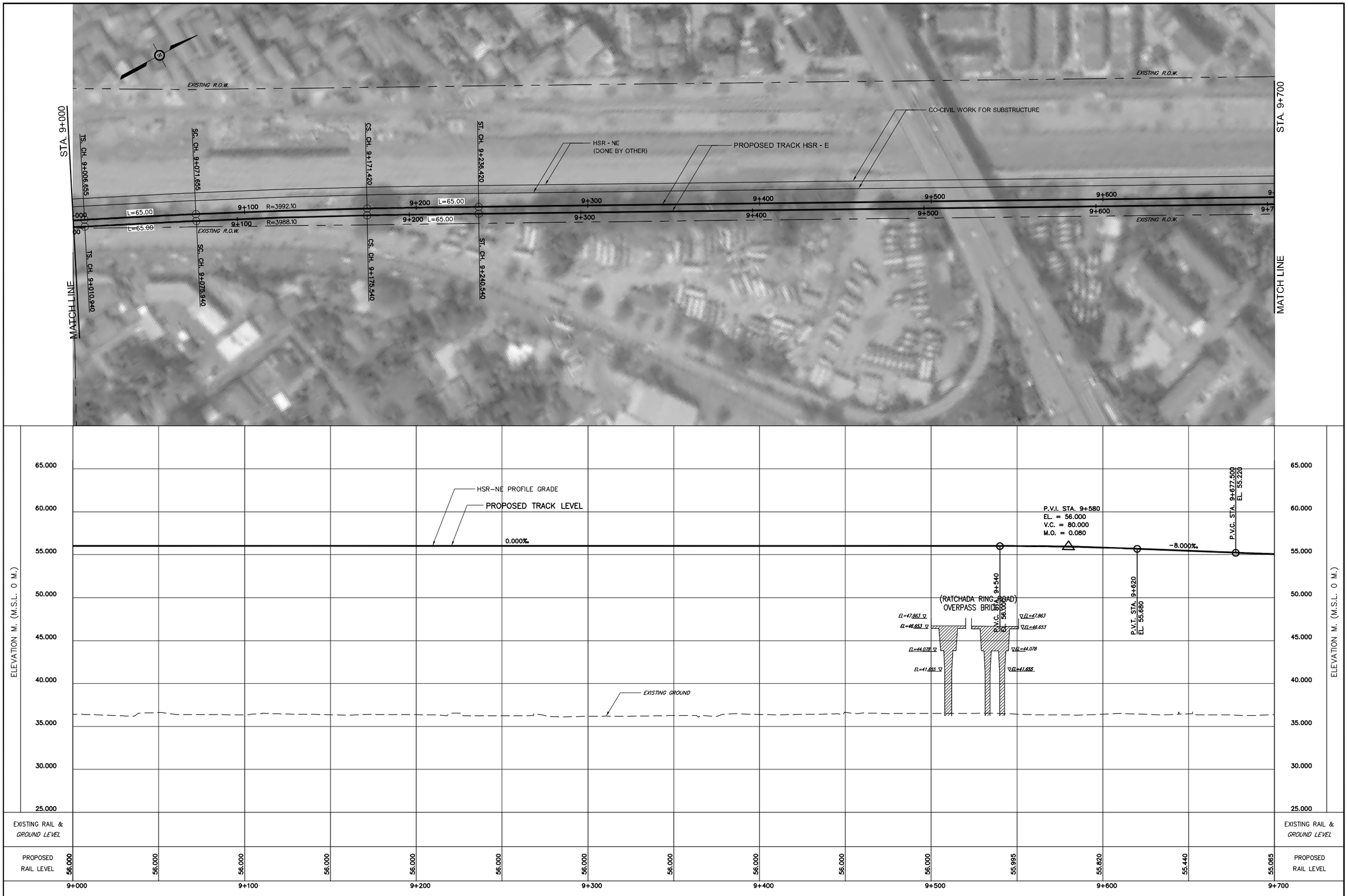

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 9+000 TO STA. 9+700

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-122-a
SHEET NO. : 122

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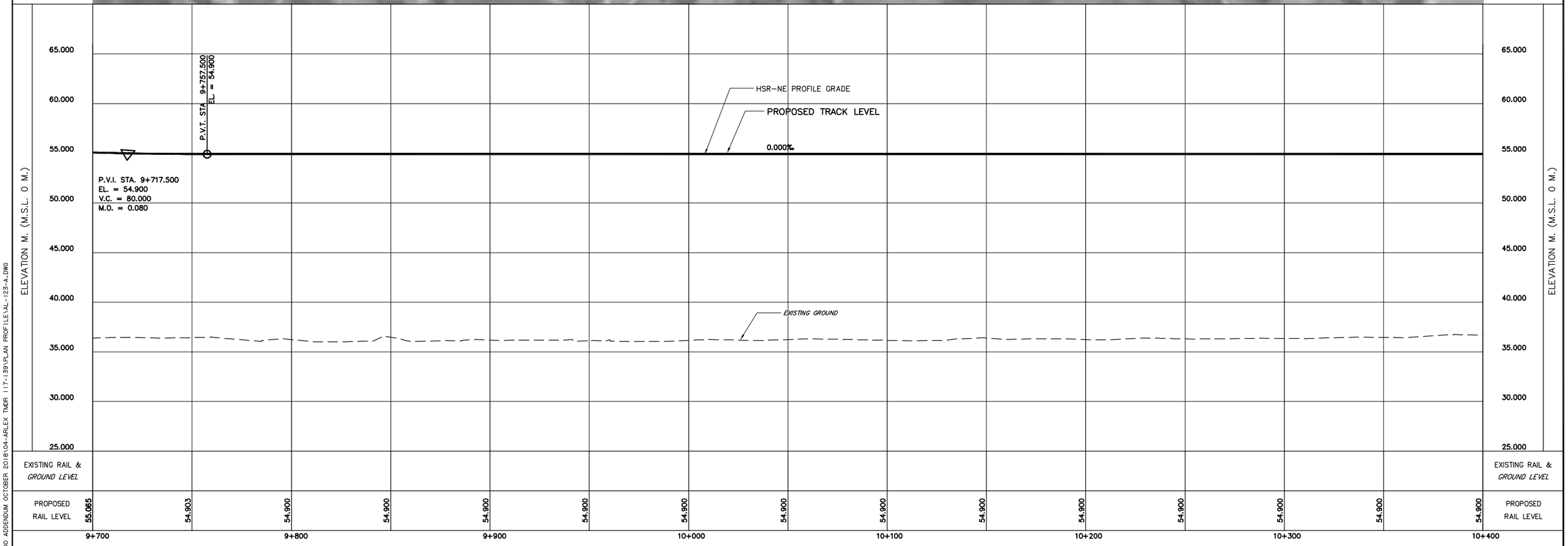

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 9+700 TO STA. 10+400

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-123-a	123

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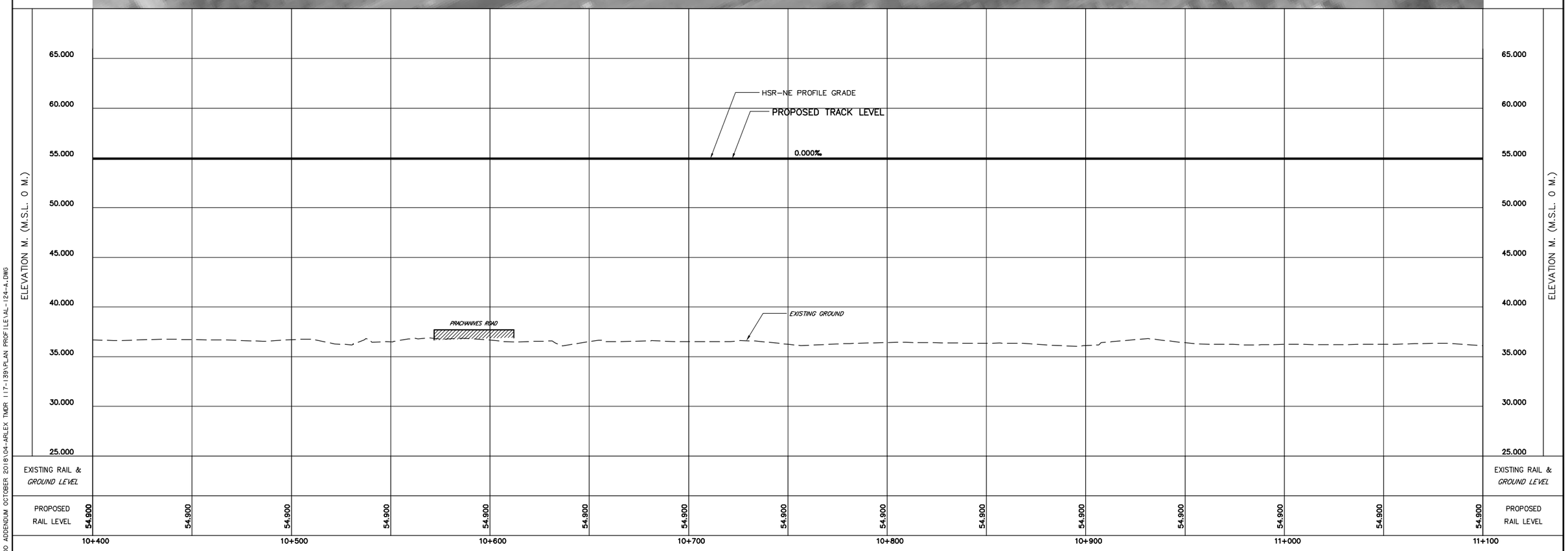

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 10+400 TO STA. 11+100

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-124-a	124

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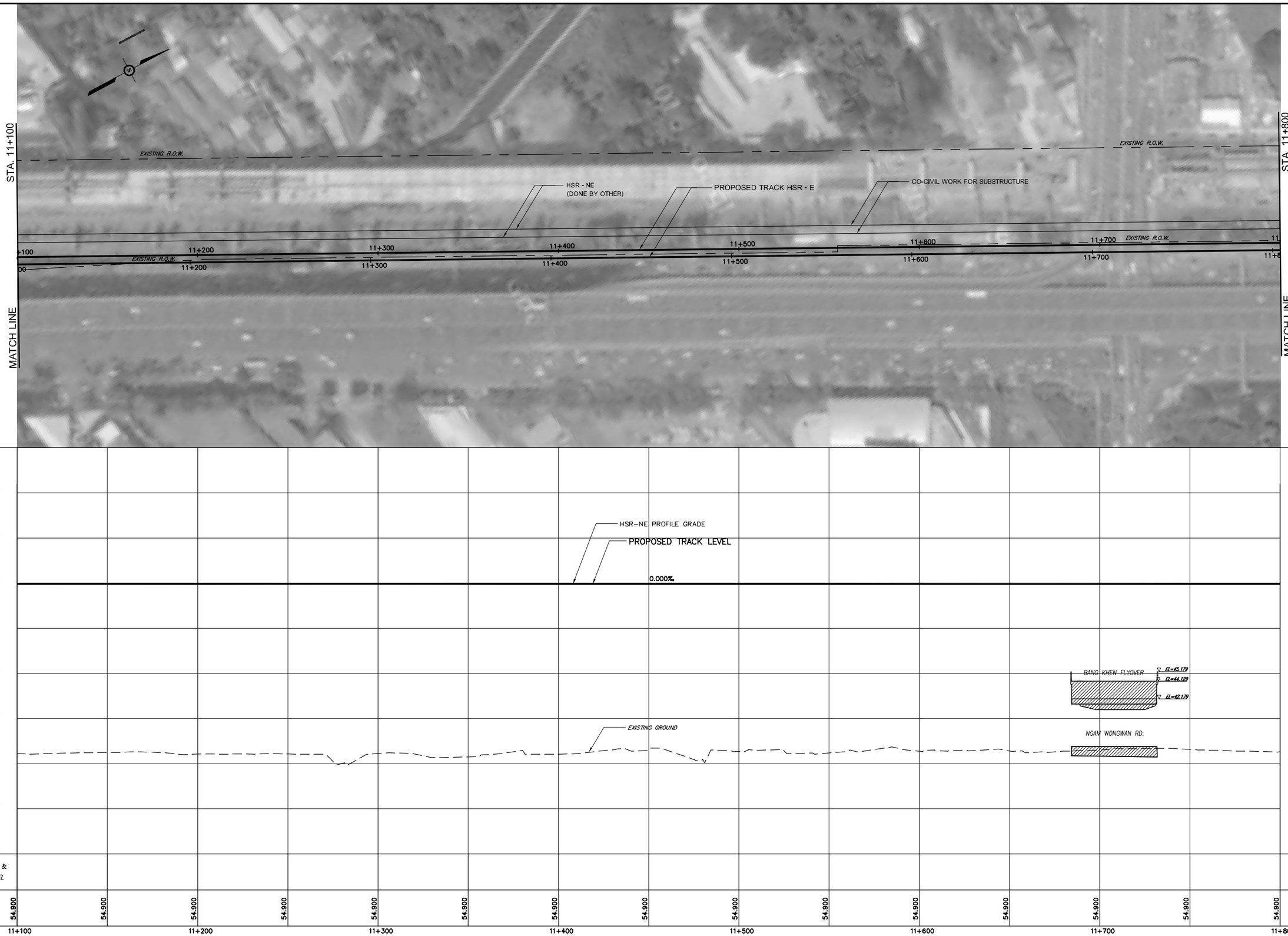

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 11+100 TO STA. 11+800

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-125-a
SHEET NO. : 125

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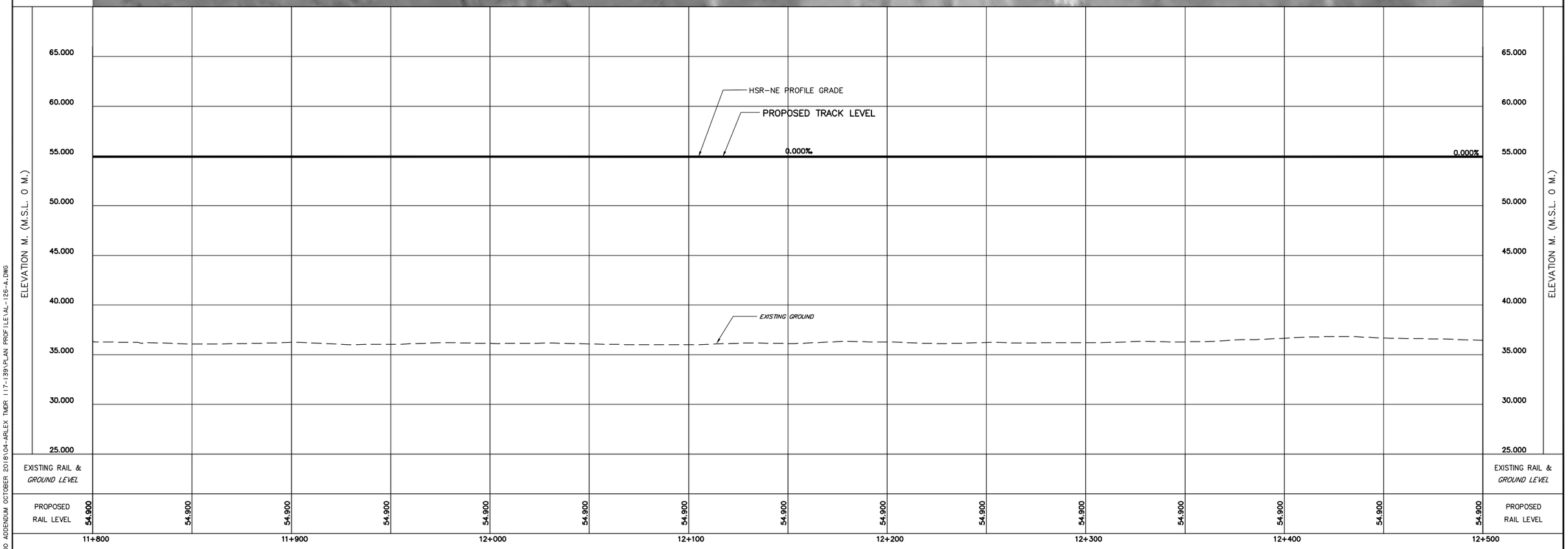

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 11+800 TO STA. 12+500

DATE :	SCALE :
OCTOBER 2018	H = 1000 V = 200
DRAWING NO. :	SHEET NO. :
AL-126-a	126

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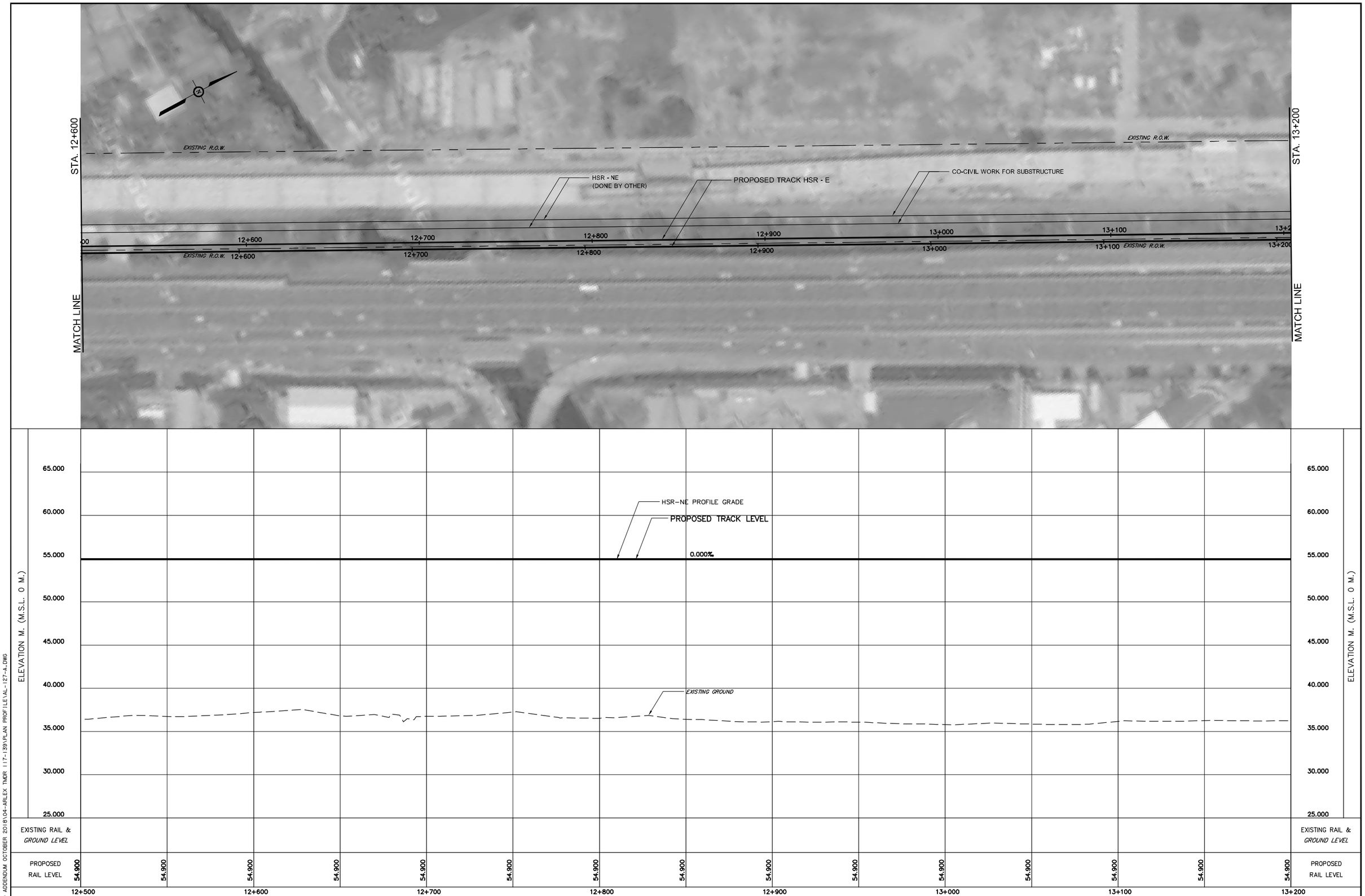

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STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
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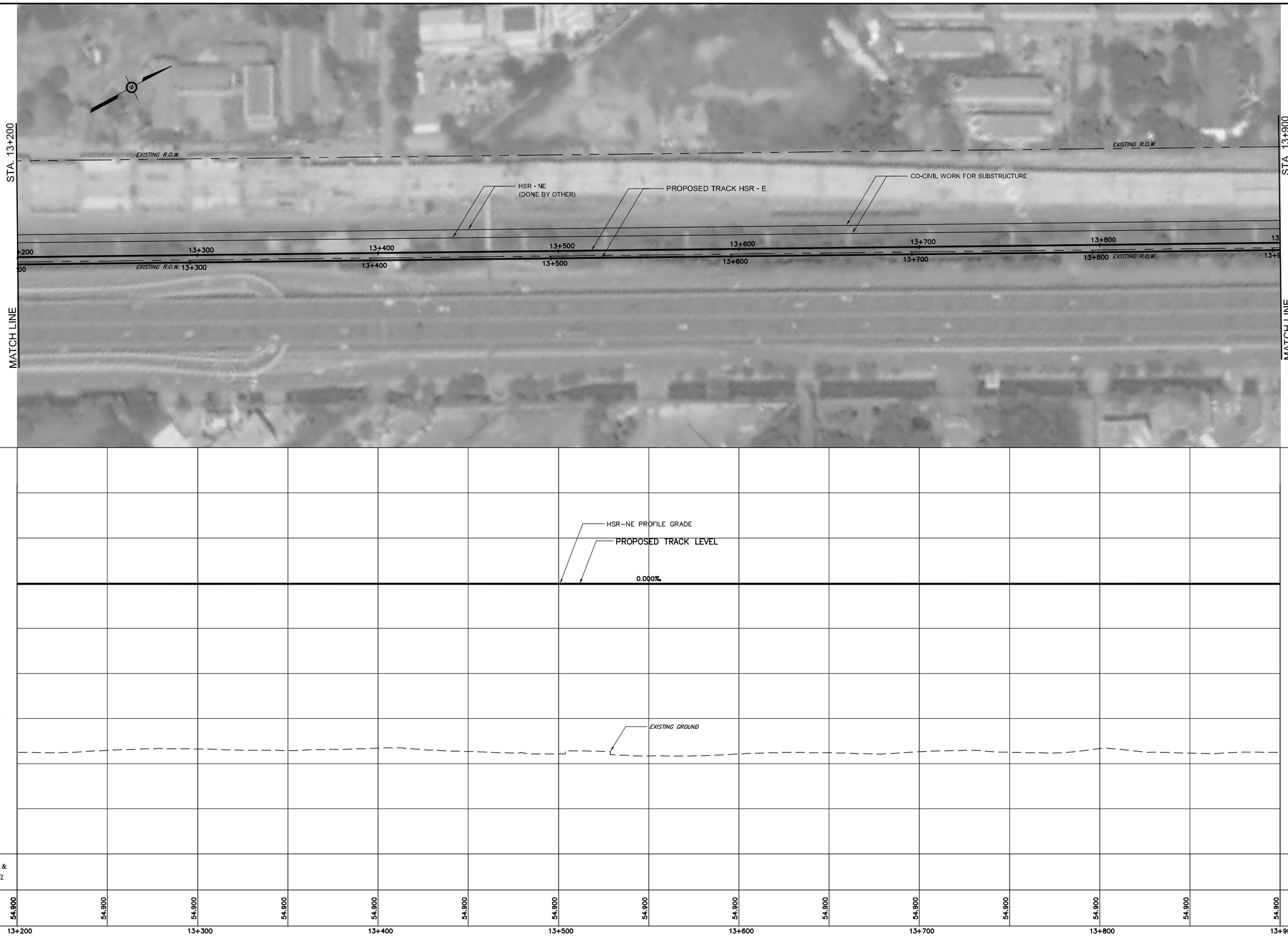
TITLE :
PLAN AND PROFILE
STA. 12+500 TO STA. 13+200

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-127-a
SHEET NO. : 127



STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 13+200 TO STA. 13+900

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-128-a
SHEET NO. : 128

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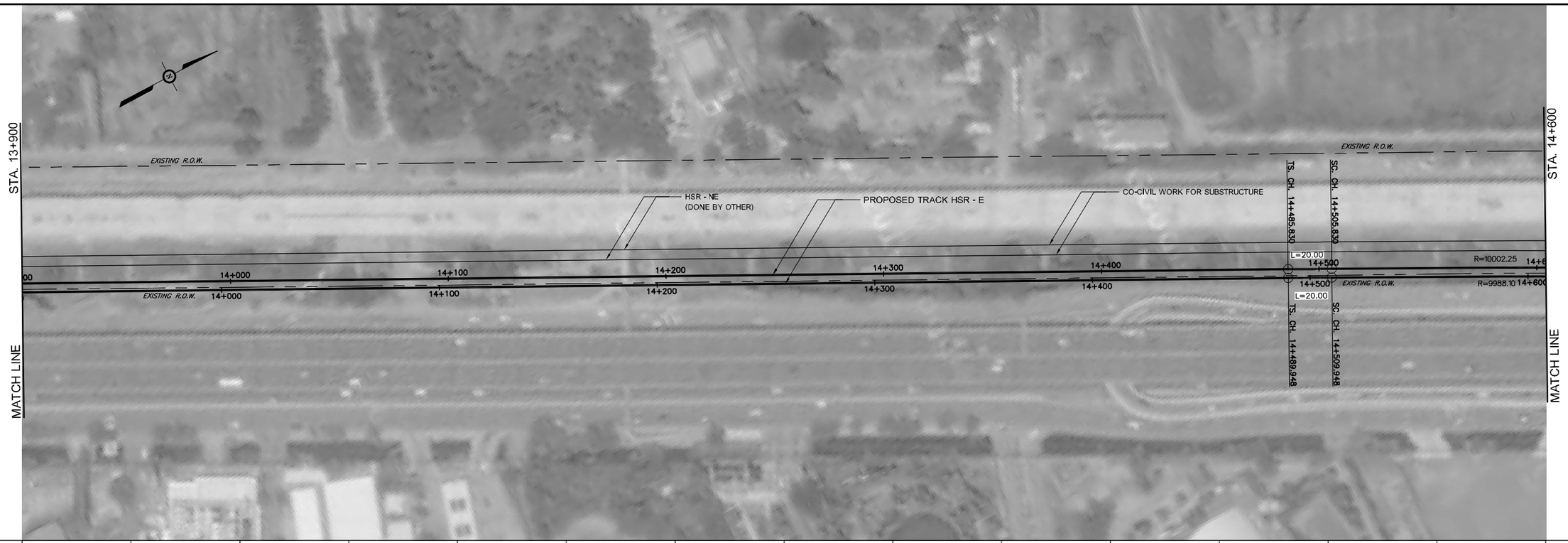

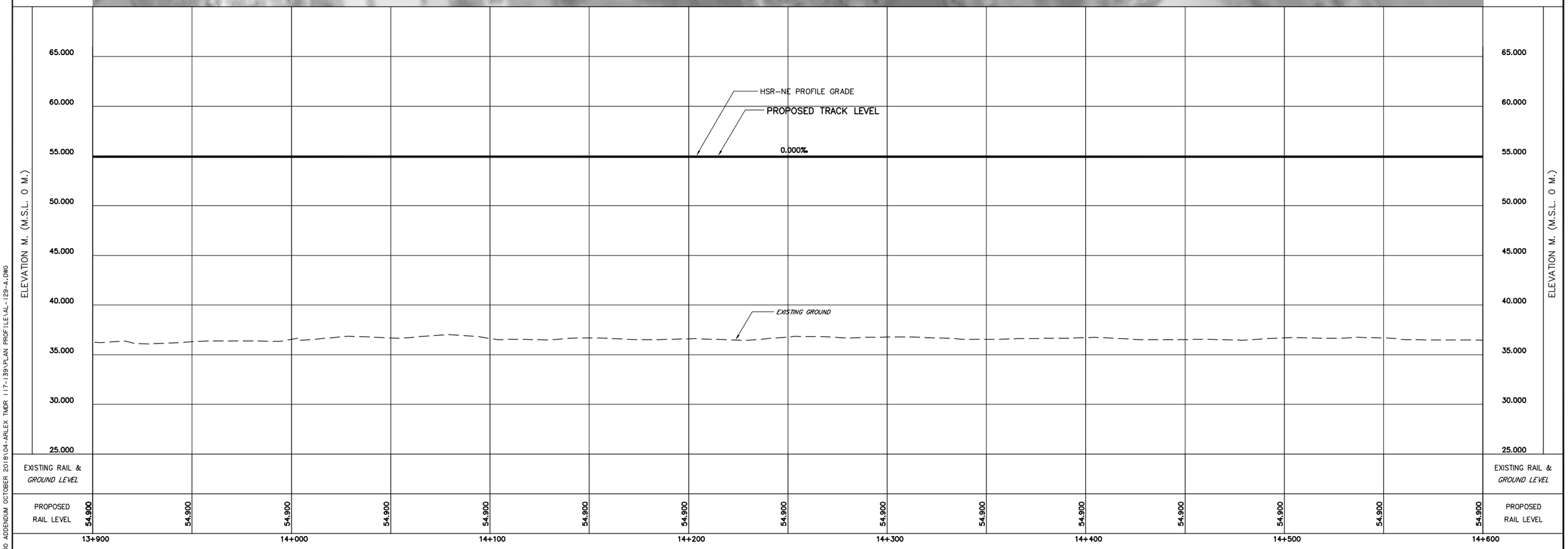

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 13+900 TO STA. 14+600

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-129-a
SHEET NO. : 129

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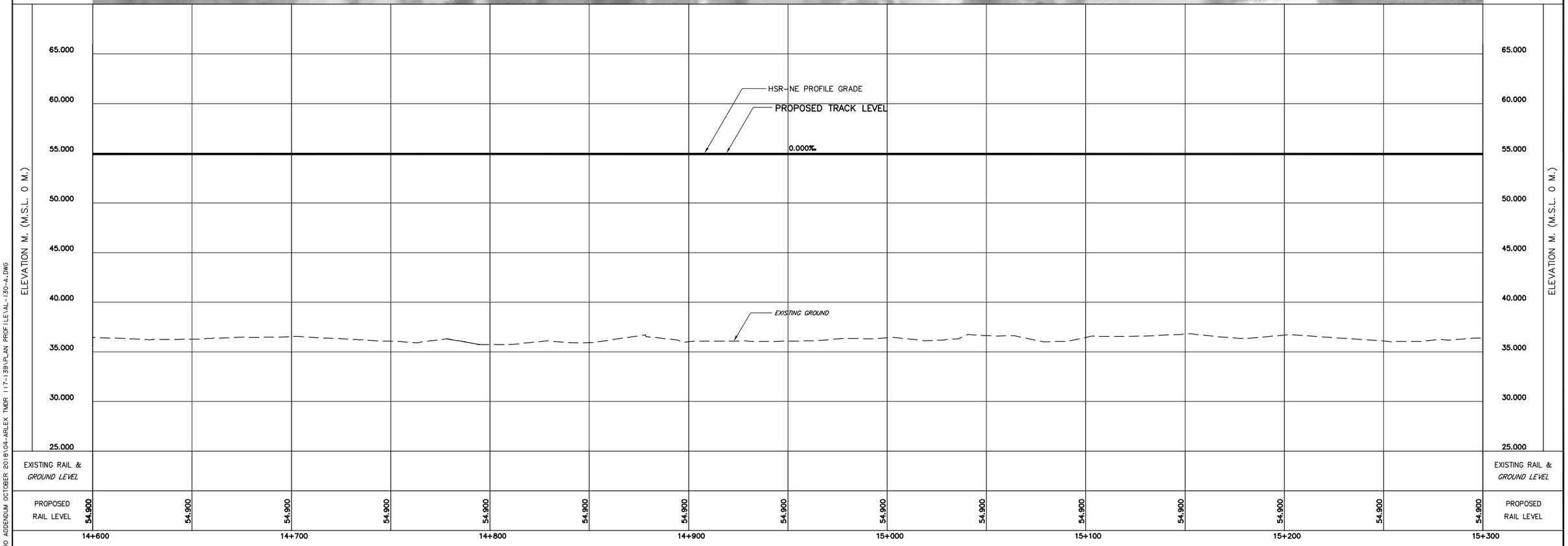

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 14+600 TO STA. 15+300

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-130-a
SHEET NO. : 130

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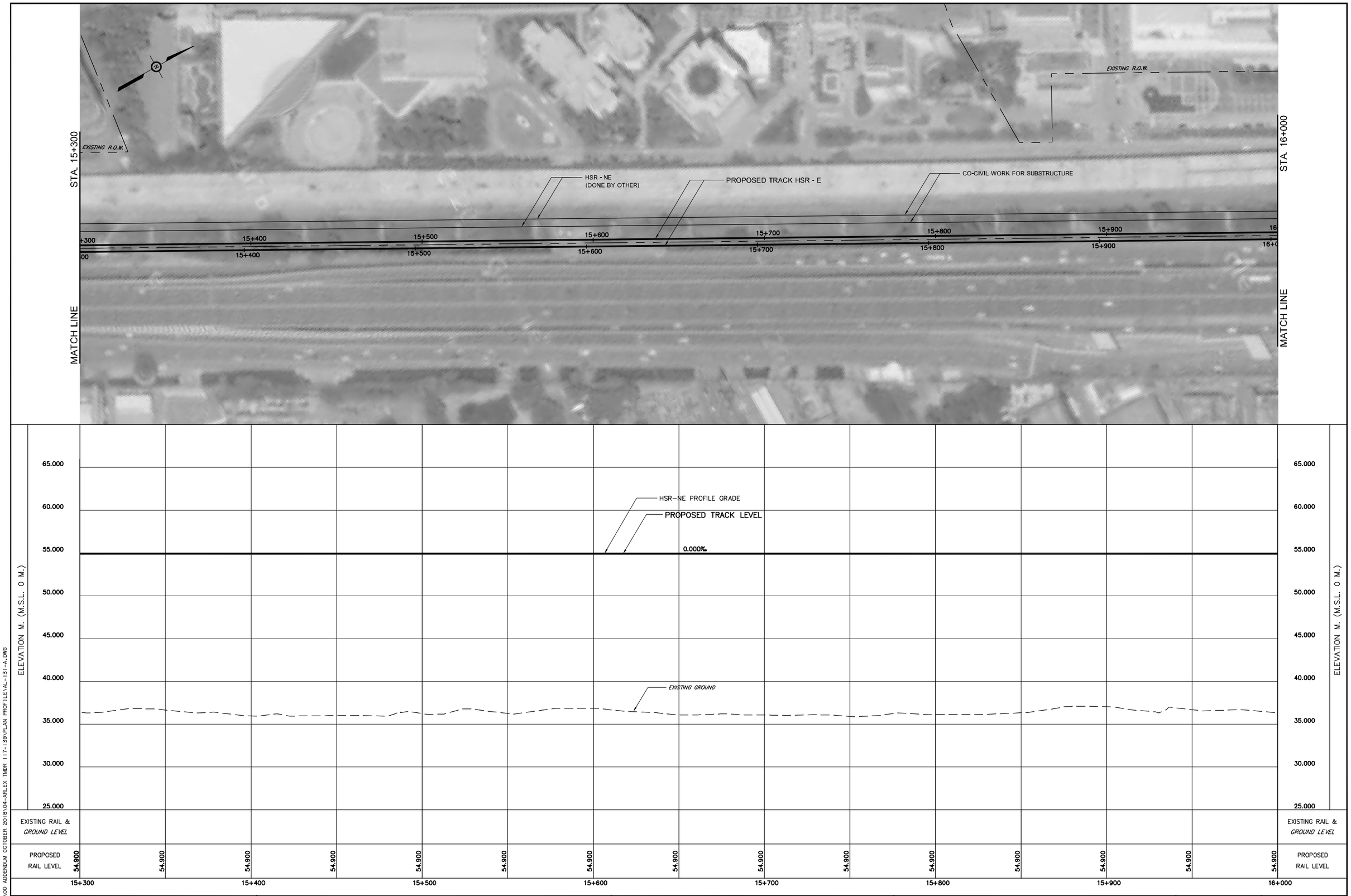

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 15+300 TO STA. 16+000

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-131-a
SHEET NO. : 131

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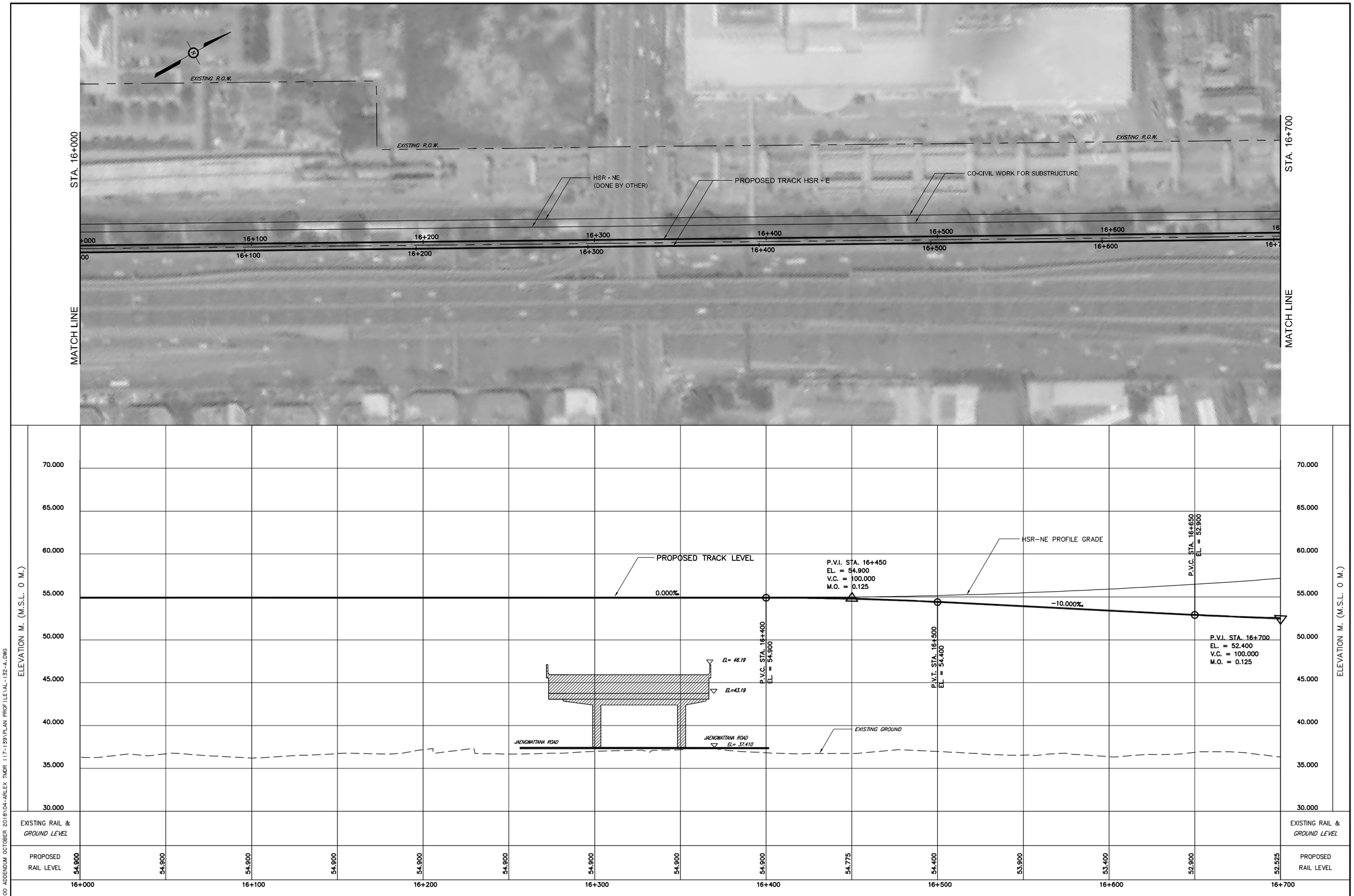

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 16+000 TO STA. 16+700

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-132-a
SHEET NO. : 132

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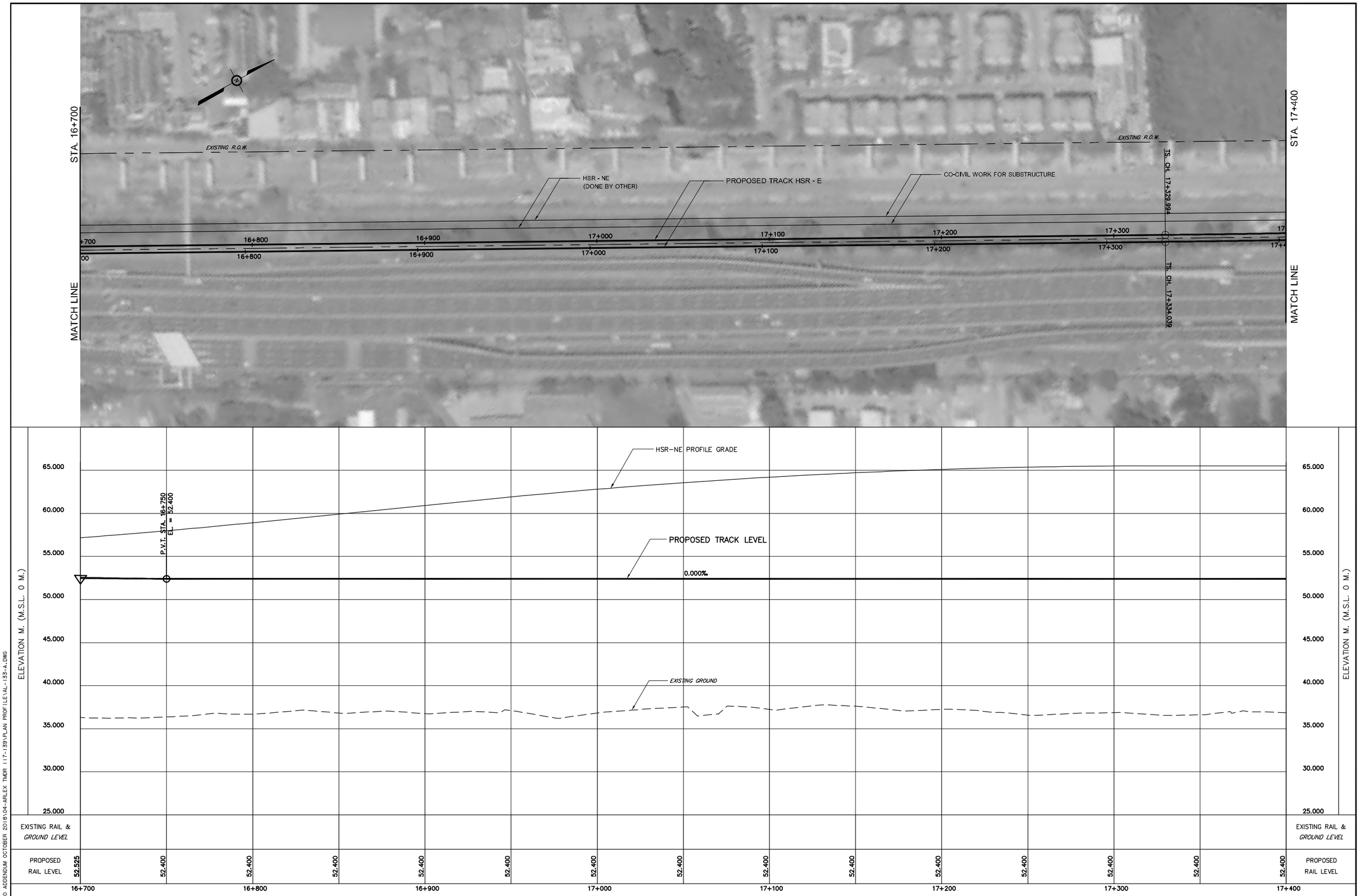

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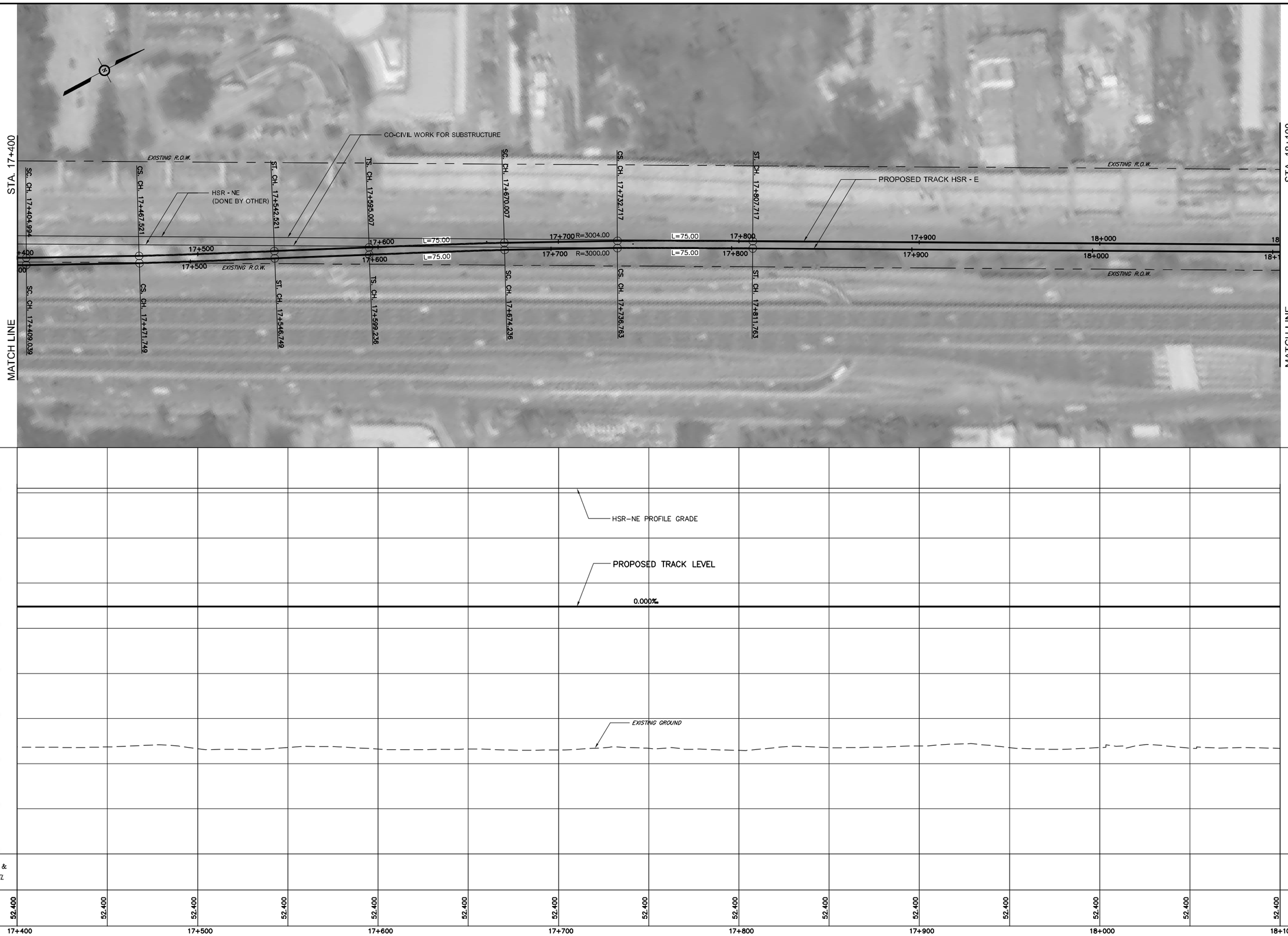
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE : PLAN AND PROFILE
STA. 16+700 TO STA. 17+400

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-133-a
SHEET NO. : 133



STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 17+400 TO STA. 18+100

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-134-a
SHEET NO. : 134

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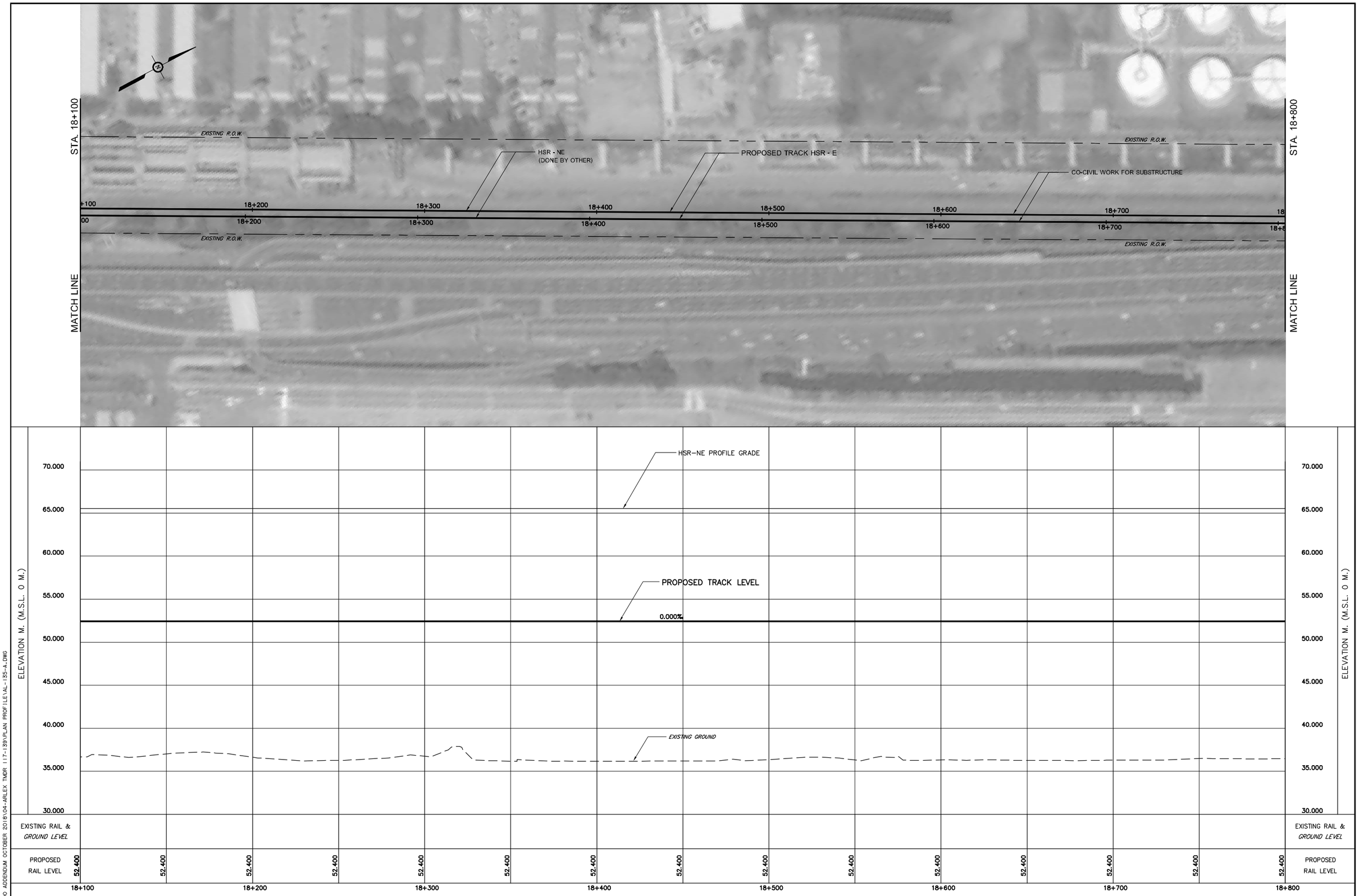

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 18+100 TO STA. 18+800

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-135-a
SHEET NO. : 135

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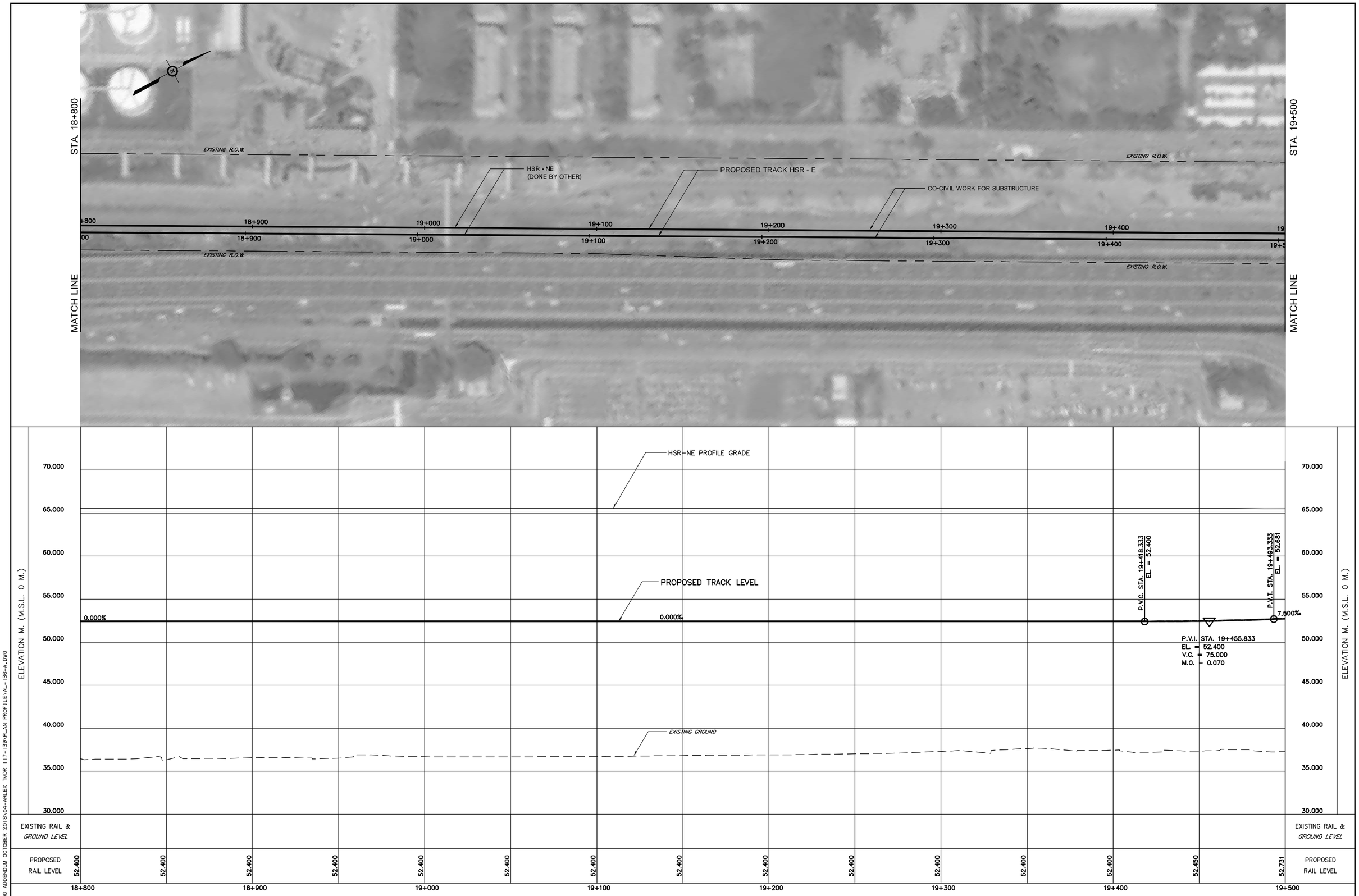

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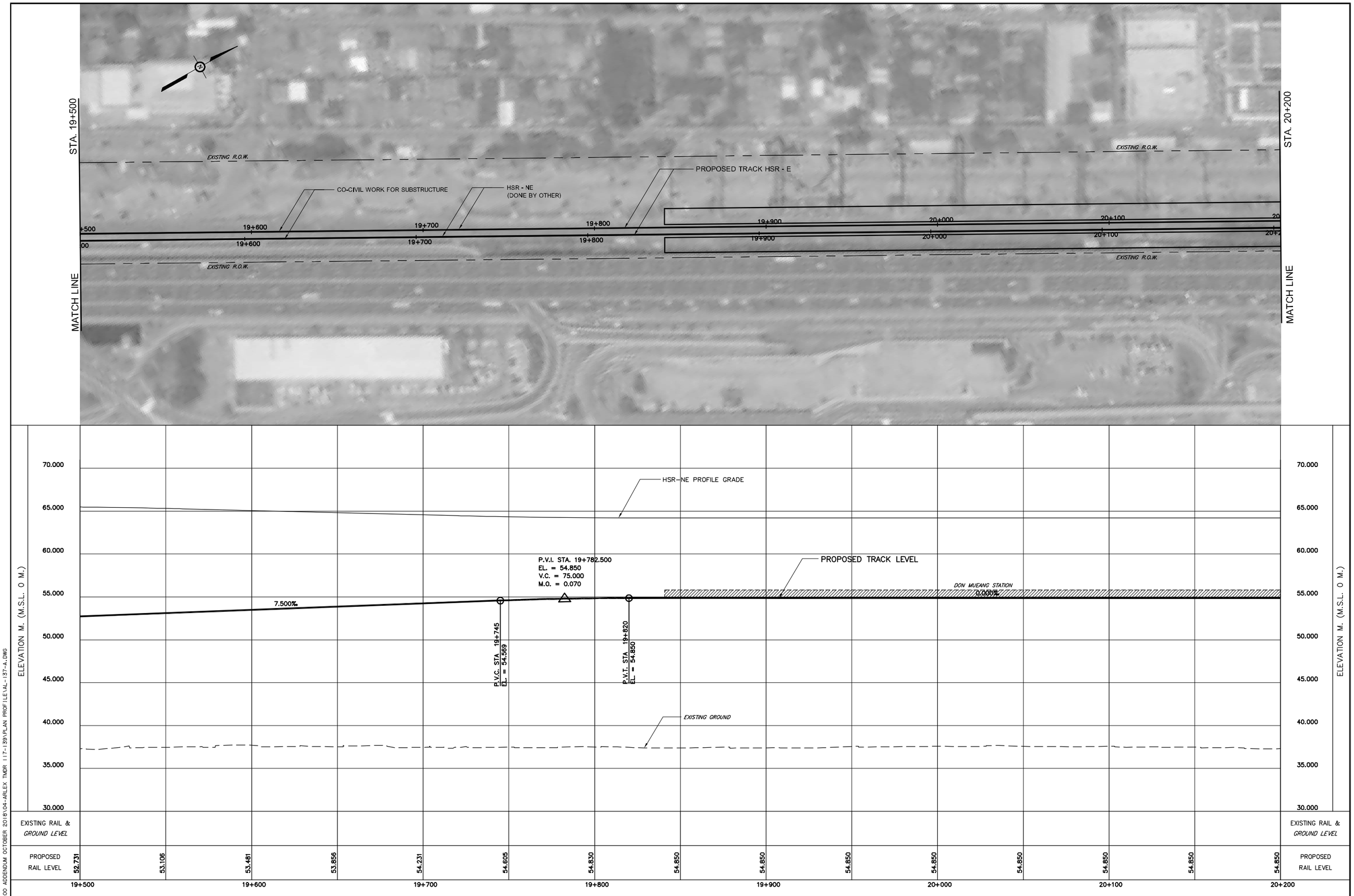
STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 18+800 TO STA. 19+500

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-136-a
SHEET NO. : 136



STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 19+500 TO STA. 20+200

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-137-a
SHEET NO. : 137

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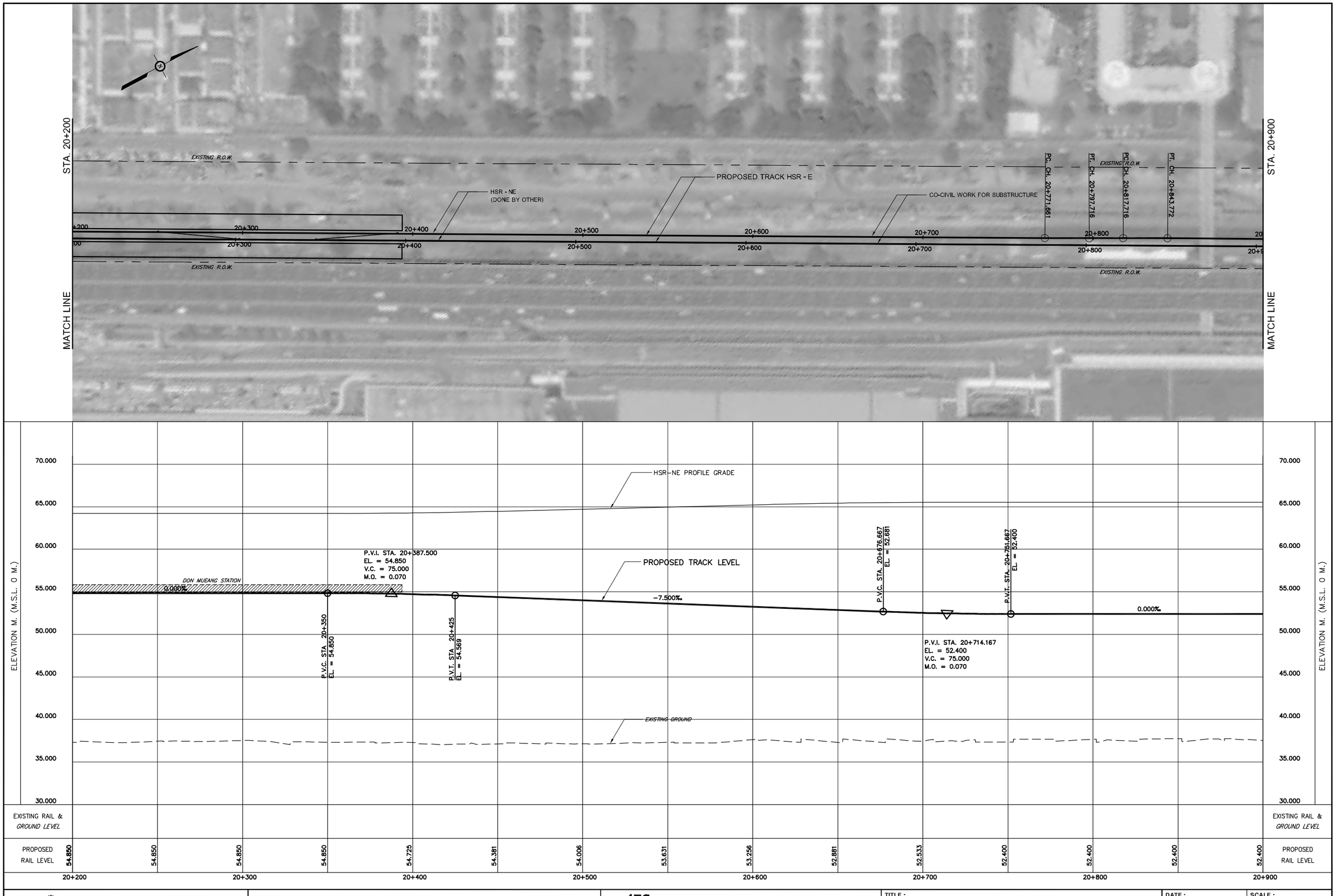

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 20+200 TO STA. 20+900

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-138-a
SHEET NO. : 138

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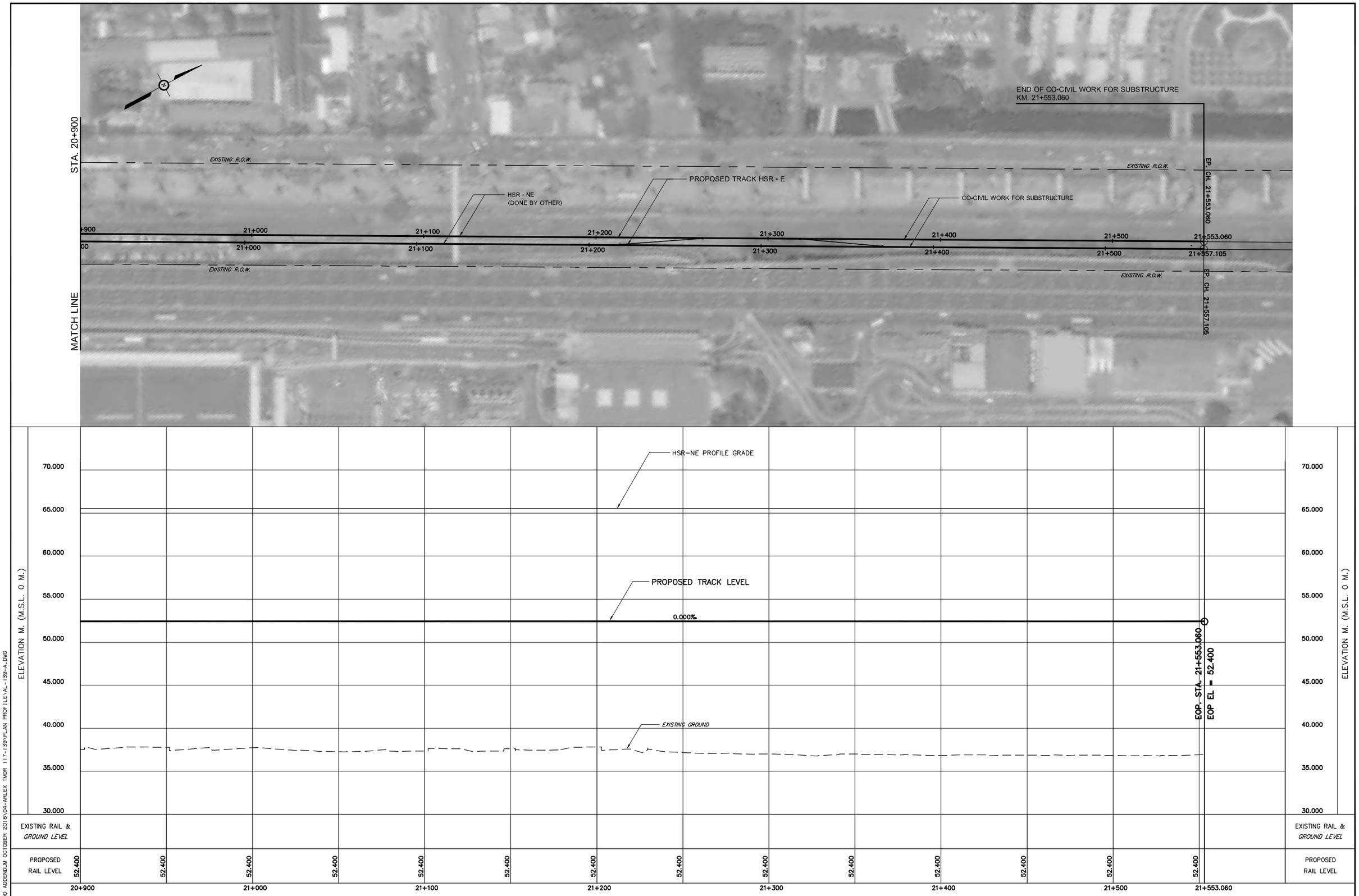

STATE RAILWAY OF THAILAND
MINISTRY OF TRANSPORT

THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT

AEC Asian Engineering Consultants Corp., Ltd.
TEAM Consulting Engineering and Management Co., Ltd.
Sasin Graduate Institute of Business Administration of Chulalongkorn University

TITLE :
PLAN AND PROFILE
STA. 20+900 TO STA. 21+553.060

DATE : OCTOBER 2018
SCALE : H = 1000 V = 200
DRAWING NO. : AL-139-a
SHEET NO. : 139

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STRUCTURAL WORKS

LIST OF DRAWING

SHEET NO.	DRAWING ITEM	DRAWING NO.	SUPERSEDED
1	LIST OF DRAWING	S-0001-a	S-0001
	GENERAL NOTES		
2	STRUCTURAL NOTES AND ABBREVIATONS SHEET 1 OF 2	S-0011-a	S-0011
3	STRUCTURAL NOTES AND ABBREVIATONS SHEET 2 OF 2	S-0012-a	S-0012
	SUVARNABHUMI AIRPORT ACCESS		
4	PLAN AND ELEVATION STA.3+163.764 – STA.3+455.264	S-1001-a	S-1001
5	PLAN AND ELEVATION STA.3+455.264 – STA.3+886.764	S-1002-a	S-1002
6	PLAN AND ELEVATION STA.3+886.764 – STA.4+428.764	S-1003-a	S-1003
	TYPICAL SECTION		
7	TYPICAL SECTION SHEET 2	S-2002-a	–
8	TYPICAL SECTION SHEET 3	S-2003-a	–
9	TYPICAL SECTION SHEET 4	S-2004-a	S-2004
10	TYPICAL SECTION SHEET 5	S-2005-a	S-2005
11	TYPICAL SECTION SHEET 6	S-2006-a	S-2006
12	TYPICAL SECTION SHEET 7	S-2007-a	S-2007
13	TYPICAL SECTION SHEET 8	S-2008-a	S-2008
14	TYPICAL SECTION SHEET 9	S-2009-a	S-2009
15	TYPICAL SECTION SHEET 10	S-2010-a	S-2010
16	TYPICAL SECTION SHEET 11	S-2011-a	S-2011
17	TYPICAL SECTION SHEET 12	S-2012-a	S-2012
18	TYPICAL SECTION SHEET 13	S-2013-a	S-2013
19	TYPICAL SECTION SHEET 14	S-2014-a	S-2014
20	TYPICAL SECTION SHEET 15	S-2015-a	S-2015
21	TYPICAL SECTION SHEET 16	S-2016-a	S-2016
22	TYPICAL SECTION SHEET 35	S-2403-a	S-2403
23	TYPICAL SECTION SHEET 36	S-2404-a	S-2404
24	TYPICAL SECTION SHEET 37	S-2405-a	S-2405
	TYPICAL SECTION SHEET 17	S-2017	CANCELLED

1. DESIGN STANDARDS AND CODES OF PRACTICE

EN : EUROPEAN STANDARDS, EN 1990–1999
AASHTO : "LRFD BRIDGE DESIGN SPECIFICATIONS", SI UNITS ,3rd EDITION INCLUDING 2005 INTERIMS.
: "GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES", 2nd EDITION 1999
ACI : ANALYSIS AND DESIGN OF REINFORCED CONCRETE GUIDEWAY STRUCTURES–(ACI358.1R–92)
BS : BRITISH STANDARD 5400
CEB–FIP : MODEL CODE 1990
AREMA : AMERICAN RAILWAY ENGINEERING AND MAINTENANCE–OF–WAY ASSOCIATION
ASBI : AMERICAN SEGMENTAL BRIDGE INSTITUTE
PCI : PRESTRESSED CONCRETE INSTITUTE
PTI : POST TENSIONING INSTITUTE
AISC : AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "MANUAL OF STEEL CONSTRUCTION"
UIC : INTERNATIONAL UNION OF RAILWAYS
TIS : THAI INDUSTRIAL STANDARD

2. MATERIALS

2.1 CONCRETE

2.1.1 CONCRETE STRENGTH
AS REQUIRED IN DRAWINGS IN EACH PART OF THE PROJECT.

2.1.2 ALL CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.

2.1.3 UNLESS OTHERWISE INDICATED ON THE DRAWINGS , ALL EXTERNAL CORNERS ARE TO HAVE 20 x 20 mm CHAMFERS FORMED BY HARDWOOD OR STEEL FILLETS FIXED TO THE FORMWORK.

2.1.4 CONCRETE COVER
UNLESS NOTED ON THE DRAWINGS , THE FOLLOWING MINIMUM CONCRETE COVERS (FROM FACE OF CONCRETE TO FACE OF OUTER BAR) SHALL BE PROVIDED :

TYPICAL USE	MIN.COVER (mm)
IN–SITU PILES	75
PRECAST SPUN PILES	45
UNDERSIDE OF PILE CAPS	100
PILE CAPS (OTHER THAN UNDERSIDE)	75
COLUMNS AND TRANSITION STRUCTURE WALL	50
SUPERSTRUCTURE (EXTERNAL FACE) AND TRANSITION STRUCTURE DECK	40
SUPERSTRUCTURE (INTERNAL FACE)	30
TOP BARS IN DECK (COVERED WITH SURFACING)	30
PARAPETS	30
COVER TO TENDON DUCTS SHALL BE ONE–HALF THE INSIDE DIAMETER OF THE DUCT, BUT NOT LESS THAN SPECIFIED FOR REBARS.	

2.2 PRESTRESSING

2.2.1 THE PRESTRESSING SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PRESTRESSING STRAND PROPERTIES SHALL BE AS FOLLOWS:

PROPERTIES OF PRESTRESSING STRANDS		
NOMINAL DIA., mm.	15.24	12.7
NOMINAL MASS, Kg/m	1.102	0.775
NOMINAL AREA, mm^2	140	98.71
BREAKING STRENGTH, kN	260.7	183.7
RELAXATION – 70% UTS – 80% UTS	 2.5% 3.5%	 2.5% 3.5%
Es, N/mm^2	195,000	195,000

2.2.2 PRESTRESSING STRANDS SHALL CONFORM TO ASTM A416 GRADE 270, 7 WIRES STRANDS, LOW RELAXATION.

2.2.3 PRESTRESSING BARS SHALL CONFORM TO ASTM A722 GRADE 150 AND SHALL HAVE TENSILE STRENGTH AT LEAST 1030 MPa.

2.2.4 TENDON PROFILES ARE SPECIFIED TO THE CENTER OF SHEATHING/DUCTING.

2.2.5 DUCTS FOR INTERNAL TENDONS SHALL BE RIGIDLY SUPPORTED AT NOT MORE THAN 1000 mm CENTERS AND SHALL BE SET OUT TO PROVIDE A SMOOTH PROFILE THROUGHOUT.

2.2.6 DUCTS FOR EXTERNAL TENDONS SHALL BE CONTINUOUS BETWEEN ANCHORAGES WITH MINIMUM RADIUS OF 2000 mm AT DEVIATORS AND SHALL BE FORMED BY SMOOTH, RIGID AND HIGH DENSITY POLYETHYLENE TO ASTM D 3350.

2.2.7 GROUT VENTS OR INLETS SHALL BE PROVIDED AT :
A. ALL ANCHORAGES
B. ALL LOW POINTS
C. ALL HIGH POINTS
D. ALL DEVIATORS

2.2.8 THE FOLLOWING MINIMUM DUCT DIAMETERS ARE REQUIRED :

TENDON SIZE	SIZE OF EXTERNAL DUCT (mm)	SIZE OF INTERNAL DUCT (mm)
5–D15 TO 7–D15	65 ID.	60 ID.
8–D15 TO 12–D15	85 ID.	80 ID.
13–D15 TO 19–D15	100 ID.	95 ID.
22–D15 TO 25–D15	115 ID.	110 ID.
3–D15, 4–D15	NOT APPLICABLE	75 x 25

TENDON SIZE 5–D15 MEANS 5 NUMBERS OF STRANDS OF STRANDS WITH DIAMETER OF 15.24 mm.
ID = INSIDE DUCT DIAMETER

2.3 STRUCTURAL STEEL

2.3.1 ALL STRUCTURAL STEEL SHAPES AND PLATES, UNLESS SPECIFIED ON THE DRAWINGS, SHALL BE OF STRUCTURAL STEEL GRADE CONFORMING TO THE REQUIREMENTS STATED IN THE SPECIFICATIONS, WITH A MINIMUM YIELD STRENGTH OF 235 MPa.

2.4

2.3.2 ALL STRUCTURAL STEEL PREFABRICATED WORKS INCLUDING THEIR FASTENERS SHALL BE GALVANIZED AS MENTIONED IN THE SPECIFICATIONS. THE WEIGHT OF ZINC COATING SHALL NOT BE LESS THAN 1100 GRAMS/m^2

2.3.3 ALL ANCHOR BOLTS SHALL BE GALVANIZED ONLY AT THE EXPOSED PORTIONS.

2.3.4 ALL WELDING SYMBOLS ARE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS).

2.3.5 SIZE, INCREMENT LENGTH AND PITCH OF WELD SHOWN ARE IN MILLIMETERS.

2.3.6 STEEL SHALL BE CUT BY FRICTION SAWING, COLD SAWING, BAND SAWING OR MECHANICALLY GUIDED FLAME AND PLASMA CUTTING.
FLAME CUTTING BY HAND MAY ONLY BE USED WITH THE PERMISSION OF THE ENGINEER.

REINFORCING STEEL

2.4.1 MILD STEEL ROUND BARS GRADE SR 24 ACCORDING TO TIS 20 DENOTED BY "R" SHALL BE USED FOR BARS WITH DIAMETER 6 AND 9 mm UNLESS NOTED OTHERWISE.

2.4.2 HIGH YIELD DEFORMED BARS GRADE SD 40 ACCORDING TO TIS 24 DENOTED BY "D" SHALL BE USED FOR BARS WITH DIAMETER 12, 16, 20, 25 AND 28 mm UNLESS NOTED OTHERWISE.

2.4.3 HIGH YIELD DEFORMED BARS GRADE SD 50 ACCORDING TO TIS 24 DENOTED BY "D" SHALL BE USED FOR BARS WITH DIAMETER 32 mm OR GREATER UNLESS NOTED OTHERWISE.

2.4.4 CLEAR DISTANCE SHALL BE NOT LESS THAN 1.5 TIMES OF THE MAXIMUM SIZE OF COARSE AGGREGATE OR NOT LESS THAN 38 mm AND NOT LESS THAN 1.5 TIMES OF THE BIGGER BAR DIAMETER UNLESS NOTED OTHERWISE.

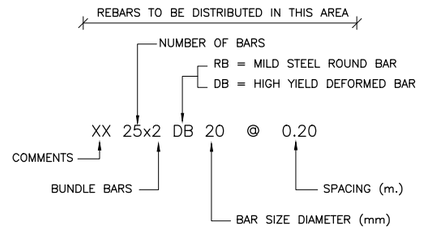
2.4.5 REINFORCING BARS SHALL BE SPLICED BY LAPS :
– LAP LENGTH SHALL BE EQUAL TO 40 TIMES OF DIAMETERS OF SMALLER BAR FOR SD 40 BARS AND 50 TIMES FOR SD 50 BARS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
– SPLICING OF BARS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER.
– BARS DRAWN IN FULL LENGTH (ALSO CALLED CONTINUOUS BARS) SHALL HAVE AS FEW SPLICES AS POSSIBLE.
– NO MORE THAN 1 BAR IN 2 SHALL BE SPLICED AT THE SAME LOCATION, EXCEPT WHERE SHOWN ON THE DRAWINGS.
– THE ANCHORAGE LENGTH OF STRAIGHT DEFORMED BARS SHALL BE AT LEAST 40 TIMES OF BAR DIAMETERS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

2.4.6 LAP SPLICES SHALL BE INCREASED BY 20 AND 30 PERCENT FOR THREE AND FOUR BAR BUNDLES RESPECTIVELY.

2.4.7 THE CONTRACTOR SHALL PROVIDE BAR SUPPORTS, SPACERS AND ACCESSORIES AS RECOMMENDED IN THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, LATEST EDITION.

2.4.8 MECHANICAL SPLICES AND WELDINGS ARE NOT ALLOWED, UNLESS OTHERWISE PERMITTED BY THE ENGINEER.

2.4.9 THE SYSTEM OF REINFORCEMENT MARKING IS AS SHOWN BELOW :



BAR SPACING INDICATED ON THE DRAWING SHALL BE MEASURED PERPENDICULAR TO BARS, UNLESS INDICATED OTHERWISE.

ABBREVIATIONS :

T	TOP	EXTRA	EXTRA BAR
B	BOTTOM	VAR	VARIED LENGTH (BAR OF VARYING DIMENSIONS)
BS	BOTH SIDES	km	KILOMETER
EF	EACH FACE	m	METER
FF	FAR FACE	cm	CENTIMETER
NF	NEAR FACE	mm	MILLIMETER
IF	INSIDE FACE	MIN	MINIMUM
OF	OUTSIDE FACE	MAX	MAXIMUM
EW	EACH WAY	DIA	DIAMETER OF CIRCULAR
STIR	STIRRUP BAR		

3. PRECAST SEGMENTAL BOX GIRDERS

3.1 SEGMENT CASTING DIMENSIONS:
FOR SPAN–BY–SPAN CONSTRUCTION, AND BALANCED CANTILEVER CONSTRUCTION, CAMBER DIAGRAMS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

3.2 ALL PRECAST SEGMENTAL BOX GIRDERS SHALL BE MATCH–CAST WITH TYPE B JOINTS (DRY JOINTS).

3.3 SHOP DRAWINGS :
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SEGMENTS, SHOWING COMPLETE DETAILS OF PRESTRESSING, REINFORCING, CONCRETE DIMENSIONS, BLOCK OUTS, RECESSES, OPENINGS, INSERTS, SCAFFOLDINGS AND ETC. FOR THE APPROVAL OF THE ENGINEER.
SHOP DRAWINGS FOR SEGMENTS SHALL SHOW PROPOSED ERECTION METHOD AND SEQUENCES.
DETAILED CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.

3.4 THE CYLINDER COMPRESSIVE STRENGTH AT TIME OF TRANSFER OF PRESTRESSED CONCRETE STRUCTURE SHALL BE AT LEAST 0.8 OF CYLINDRICAL COMPRESSIVE STRENGTH AT 28 DAYS.

3.5 BUCKLING OF PRECAST MEMBERS DURING HANDLING, TRANSPORTATION, AND ERECTION SHALL BE INVESTIGATED. ADDITIONAL REINFORCEMENT MAY BE REQUIRED FOR HANDLING OF THE SEGMENTS DEPENDING UPON THE METHOD USED BY THE CONTRACTOR.

3.6 LONGITUDINAL STRESSINGS SHALL BE PERFORMED ONLY AFTER FULL STRESSING OF TRANSVERSE TENDONS ARE COMPLETED.

4. BEARING & EXPANSION JOINT

4.1 POT BEARING, ELASTOMERIC BEARING AND EXPANSION JOINT FOR STRUCTURES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH REQUIREMENTS OF BS.5400, AND ACCOMMODATING ALL THE LOADS, TRANSLATIONS AND ROTATIONS AS SHOWN ON THE DRAWINGS.

4.2 THE CONTRACTOR SHALL SUBMIT THE CERTIFIED DOCUMENTS CONFIRMING THE 15–YEAR WARRANTY OF ALL BEARINGS AND EXPANSION JOINTS TO THE ENGINEER.

4.3 THE CONTRACTOR SHALL SHOW THE DETAILS OF REINFORCEMENT TO BE USED AT BEARINGS AND EXPANSION JOINTS FOR THE ENGINEER'S APPROVAL.

5. TRACKWORKS

5.1 DETAILS OF DOWEL BARS REQUIRED FOR THE CONNECTION OF THE TRACKWORK PLINTHS TO THE DECK SHALL REFER TO THE M&E DRAWINGS.

5.2 THE CIVIL CONTRACTOR SHALL COORDINATE WITH M&E CONTRACTOR TO ENSURE THAT THE SPECIFIED LOCATION OF THE DOWEL BARS SHALL NOT INTERFERE WITH THE PRESTRESSING DUCTS.

6. EARTHING, BONDING AND STRAY CURRENT CONTROL SYSTEMS

6.1 DETAILS OF ITEMS, EARTHING, BONDING AND STRAY CURRENT CONTROLS, TO BE CAST–IN THE STRUCTURES SHALL REFER TO THE RELEVANT M&E DRAWINGS.

7. OTHER REQUIREMENTS

7.1 UNDERGROUND UTILITIES SHALL BE PRECISELY LOCATED , AND IF NECESSARY, THE STRUCTURES SHALL BE MODIFIED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER

7.2 EXISTING STRUCTURES SHALL BE PRECISELY LOCATED AND VERIFIED.

7.3 IN GENERAL, TOP OF FOOTING SHALL BE 0.5 m (MIN) BELOW THE FINISHED GRADE, WHERE FOOTING LOCATED NEAR THE ROADWAY OR IN THE KHLONG, TOP OF FOOTING SHALL BE 1.5 m (MIN) BELOW THE FINISHED GRADE AND 0.5 m (MIN) BELOW THE KHLONG BED.

7.4 ANY DISCREPANCIES ON THE DRAWINGS SHALL BE ADJUSTED OR CORRECTED AND SUBJECTED TO THE ENGINEER'S APPROVAL.

7.5 EXISTING FOUNDATIONS FOUND INTERFERING WITH THE CONSTRUCTION OF THE PROPOSED STRUCTURES SHALL BE DEMOLISHED TO THE LINE AND LEVEL INSTRUCTED BY THE ENGINEER.

7.6 THE CONTRACTOR SHALL CORE ALL EXISTING BORED PILES WHICH WILL BE USED FOR ARLEX STRUCTURES TO VERIFY THE COMPRESSIVE CYLINDER STRENGTH. IF THE TEST RESULTS INDICATE THE COMPRESSIVE STRENGTH IS LESS THAN 30 MPa, THE CONTRACTOR SHALL VERIFY THE ADEQUACY OF USING THE EXISTING PILES OR PROPOSE ALTERNATIVE DETAILS IF NECESSARY AND SUBMIT TO THE ENGINEER FOR APPROUAL

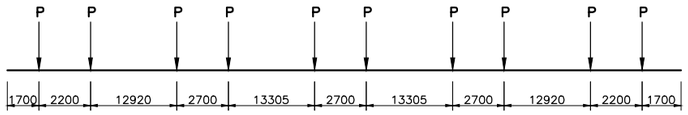
7.7 THE "ENGINEER" MENTIONED THROUGHOUT THIS SET OF DRAWINGS REFERS TO OWNER'S REPRESENTATIVE ENGINEER.

8. STRUCTURAL SYMBOLS AND LEGENDS

- SECTION IN EARTH
- SECTION IN CIS CONCRETE
- SECTION IN PRECAST CONCRETE
- SECTION IN CONCRETE PAVEMENT
- SECTION IN STRUCTURAL STEEL
- SECTION IN ASPHALT CONCRETE
- SECTION IN SAND
- SECTION IN GRAVEL
- CONSTRUCTION JOINT
- PLAN VIEW AND ELEVATION OF CUT AND FILL SLOPES (SLOPE 1:2 = 1 VER TO 2 HOR)
- LINE OF SYMMETRY
- +12.50 — ELEVATION + 12.50 ABOVE MSL
- SQUARE
- REINFORCEMENT IN BOTH WAYS
- ø — DIAMETER
- TO INDICATE END OF DEFORMED BARS WITHOUT HOOK
  EXAMPLE :
  MEANS
- STIR R9@200 — MILD STEEL BAR
- T, B — SYSTEM FOR SHOWING TOP AND BOTTOM REINFORCEMENT
- 2D25@250 — GROUP OF (2) BARS IN A BUNDLE
- BAR BENT TOWARDS THE READER
- BAR BENT AWAY FROM THE READER
- PRESTRESSING TENDON
- STRESSING ANCHORAGE
- DEAD END ANCHORAGE
- COUPLERS
- LIMIT OF AREA COVERED BY BARS

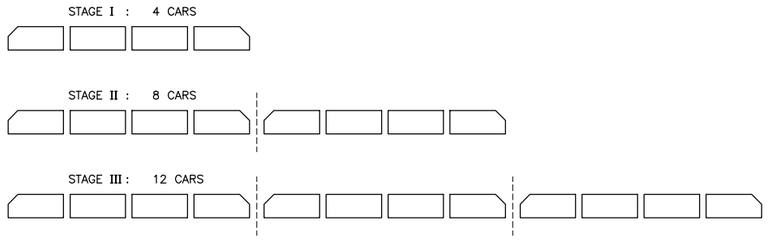
9. LOADINGS FOR ARL

9.1 TRAIN LOAD TYPE I (STANDARD GAUGE)

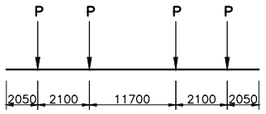


P = 19 TONS , (FOR 4 CARS TRAIN UNIT)

TRAIN CONFIGURATION

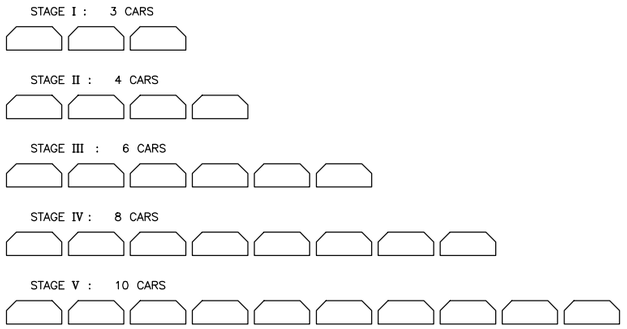


9.2 TRAIN LOAD TYPE II (STANDARD GAUGE)



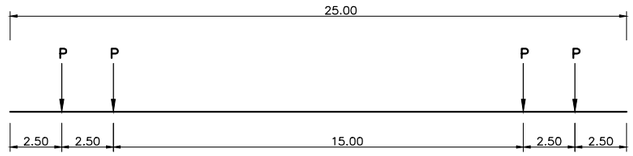
P = 16 TONS, (FOR 1 CAR TRAIN UNIT)

TRAIN CONFIGURATION



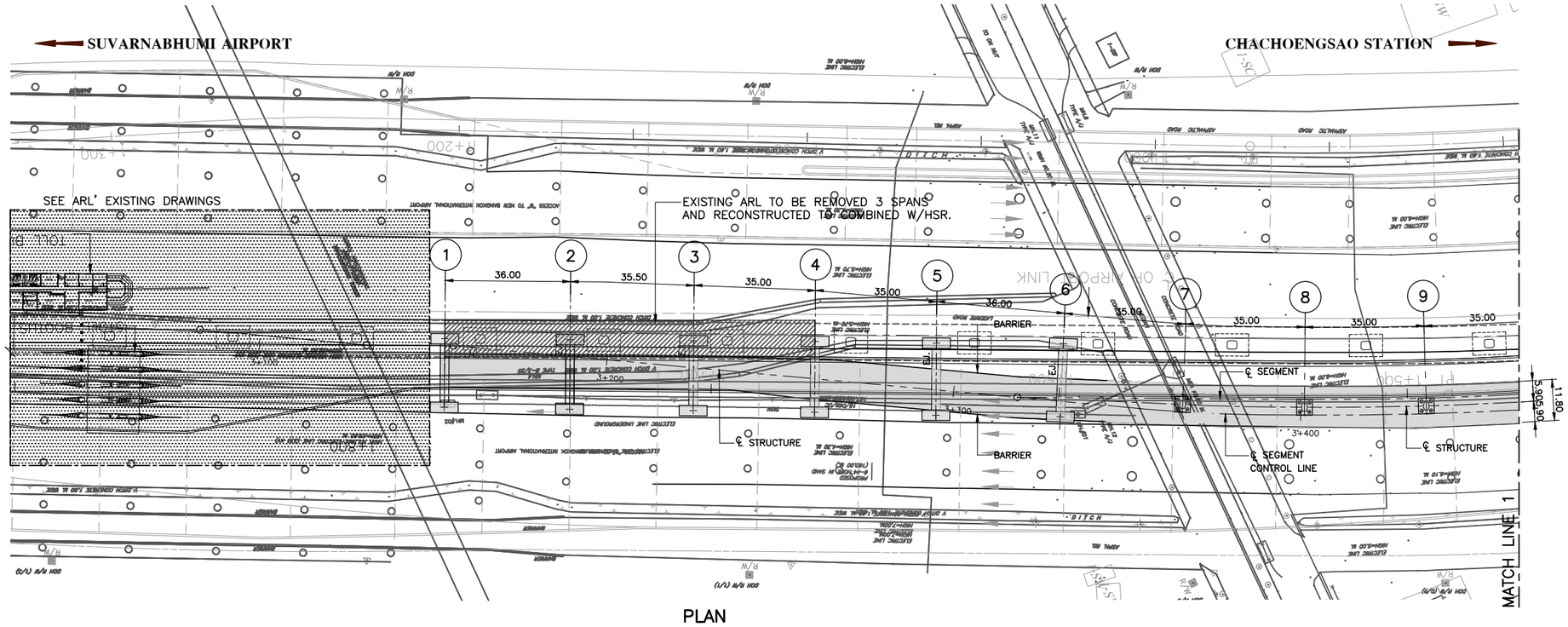
THE DESIGNER SHALL ALSO EVALUATE IF THE EXISTING ARL STRUCTURES CAN CARRY THE STANDARD TRAIN LOAD. IN ADDITION, RAILWAY STRUCTURES FROM PHAYA THAI STATION TO DON MUEANG AIRPORT SHALL BE ALSO DESIGNED FOR THE ARL TRAIN LOADS AS SHOWN.

10. LOADINGS FOR HSR



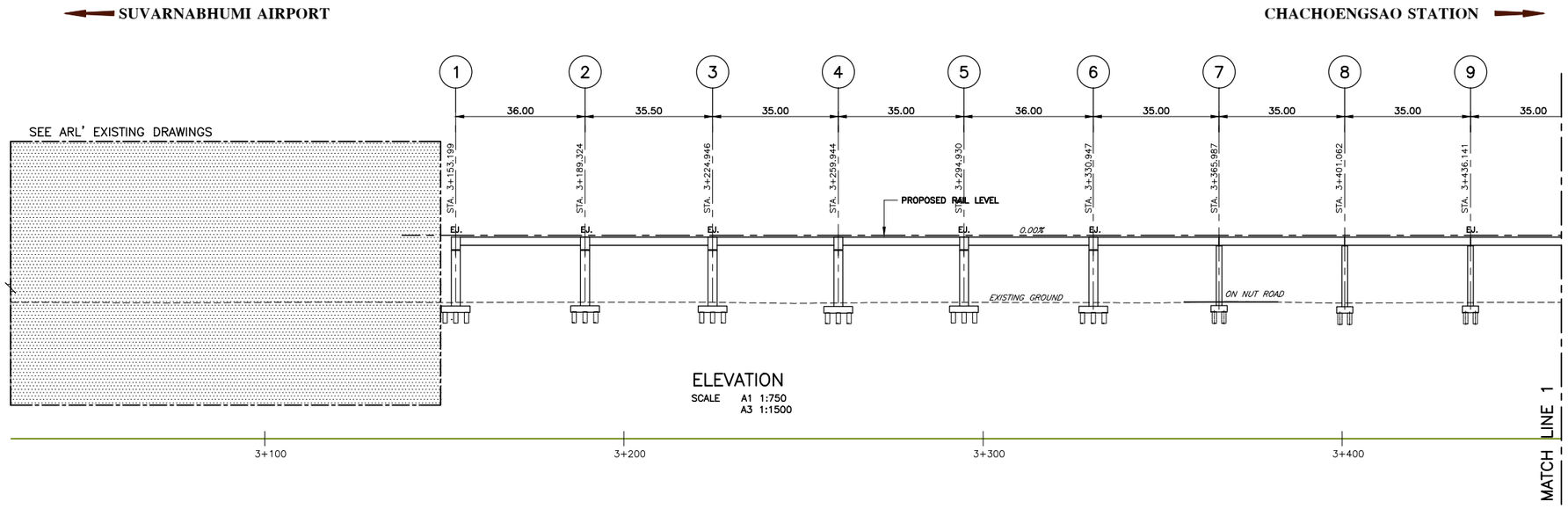
UNIT : m.
P = 16 TON/AXLE 1 CAR (SHOWN) 8 CAR (MAX.)

THE RAILWAY STRUCTURE SHALL BE DESIGNED FOR THE STANDARD TRAIN LOAD AS SHOWN ABOVE. THIS LOAD IS THE APPROXIMATE REAL TRAIN LOAD BASED ON SEVERAL TRAIN MANUFACTURERS. IF A HEAVIER TRAIN IS PROPOSED BY THE CONTRACTOR, SUCH LOAD WILL BECOME STANDARD TRAIN LOAD AND SHALL BE USED FOR THE DESIGN OF RAILWAY STRUCTURES. PROPOSED TRAIN WITH SIMILAR AXLE LOAD BUT DIFFERENT LOAD CONFIGURATION SHALL BE ALSO INVESTIGATED IF IT RESULTS IN GREATER RESPONSES TO THE STRUCTURES. THE LOAD PATTERNS SHALL BE PLACED IN POSITIONS GENERATING MAXIMUM FORCES IN THE STRUCTURE. ADDITIONAL FUTURE CARS SHALL BE TAKEN INTO ACCOUNT.



PLAN

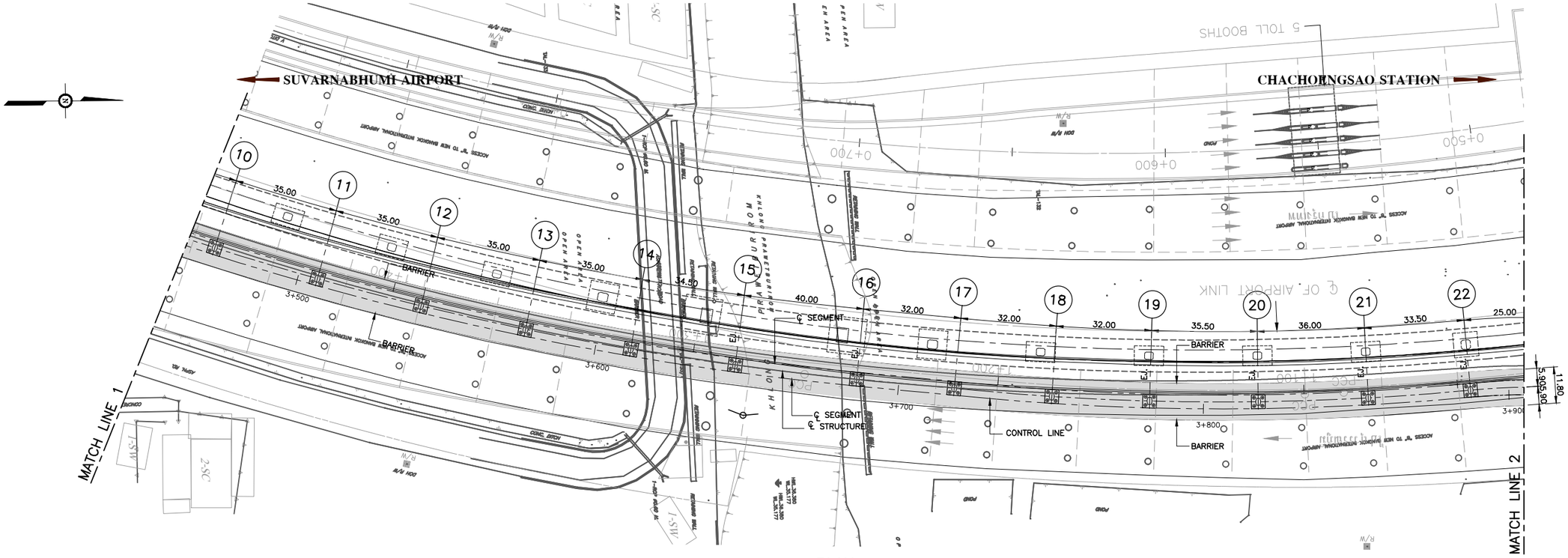
SCALE A1 1:750
A3 1:1500



ELEVATION

SCALE A1 1:750
A3 1:1500

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SUVARNABHUMI AIRPORT ACCESS PLAN AND ELEVATION STA. 3+163.764 – 3+455.264	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S–1001–a	SHEET NO. : 4



PLAN

SCALE A1 1:750
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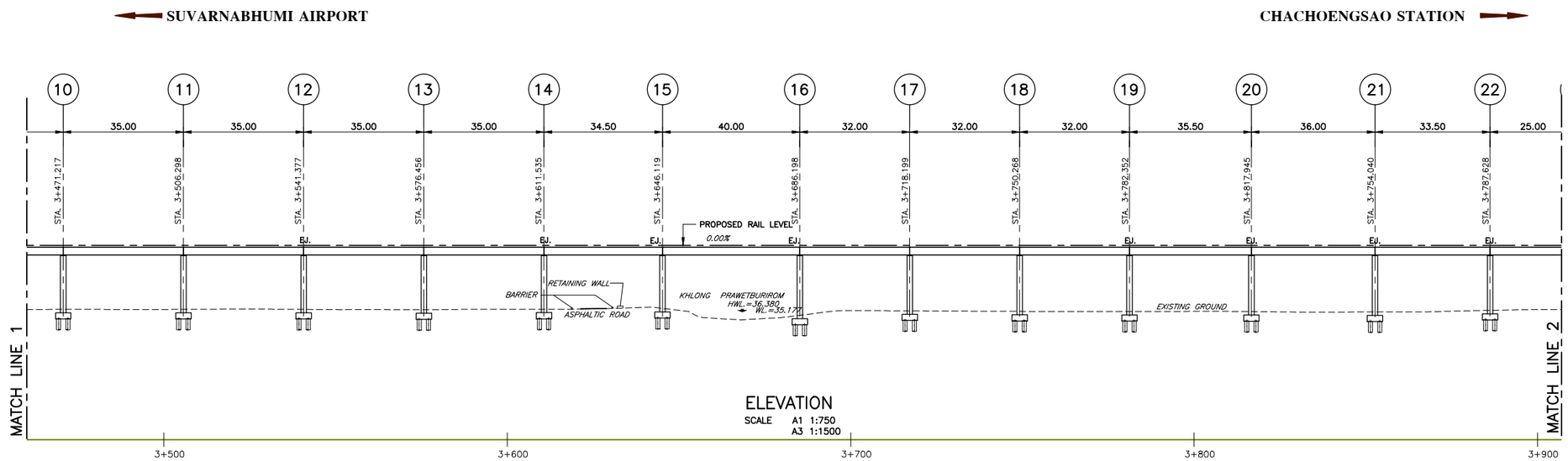

ELEVATION

SCALE A1 1:750
A3 1:1500

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SUVARNABHUMI AIRPORT ACCESS PLAN AND ELEVATION STA. 3+455.264 – 3+886.764	DATE : OCTOBER 2018 DRAWING NO. : S-1002-a	SCALE : AS SHOWN SHEET NO. : 5

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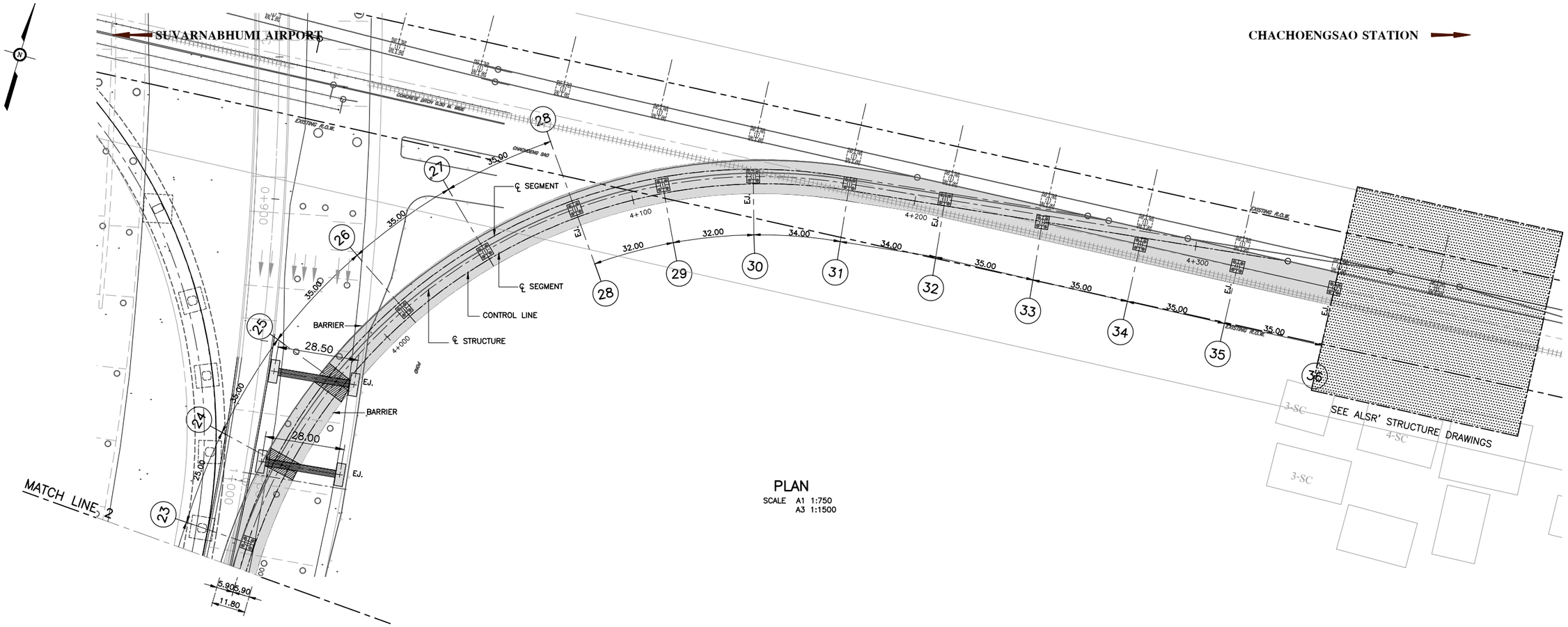

PLAN

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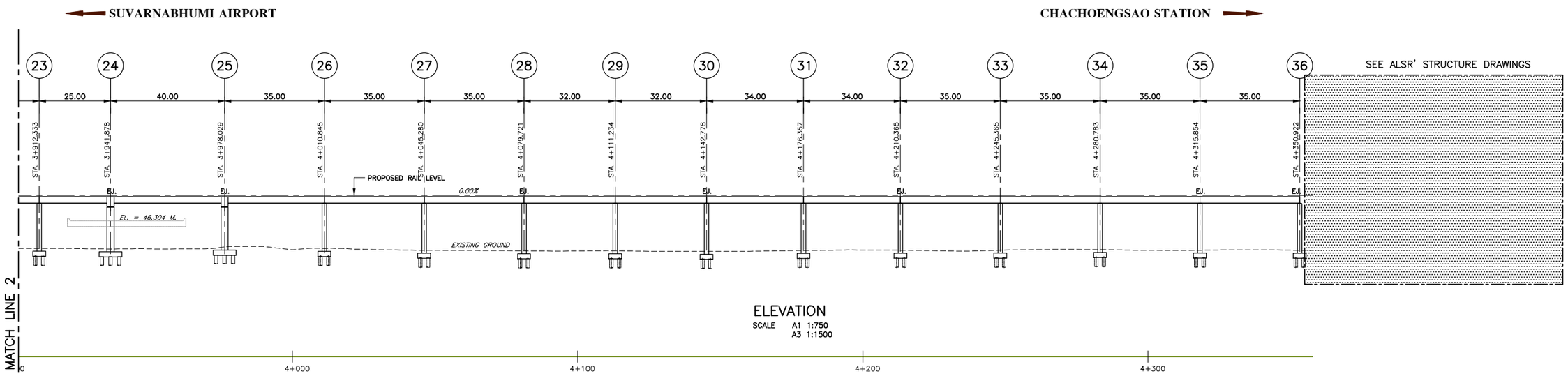

ELEVATION

SCALE A1 1:750
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STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : SUVARNABHUMI AIRPORT ACCESS PLAN AND ELEVATION STA. 3+886.764 – 4+428.764	DATE : OCTOBER 2018	SCALE : AS SHOWN
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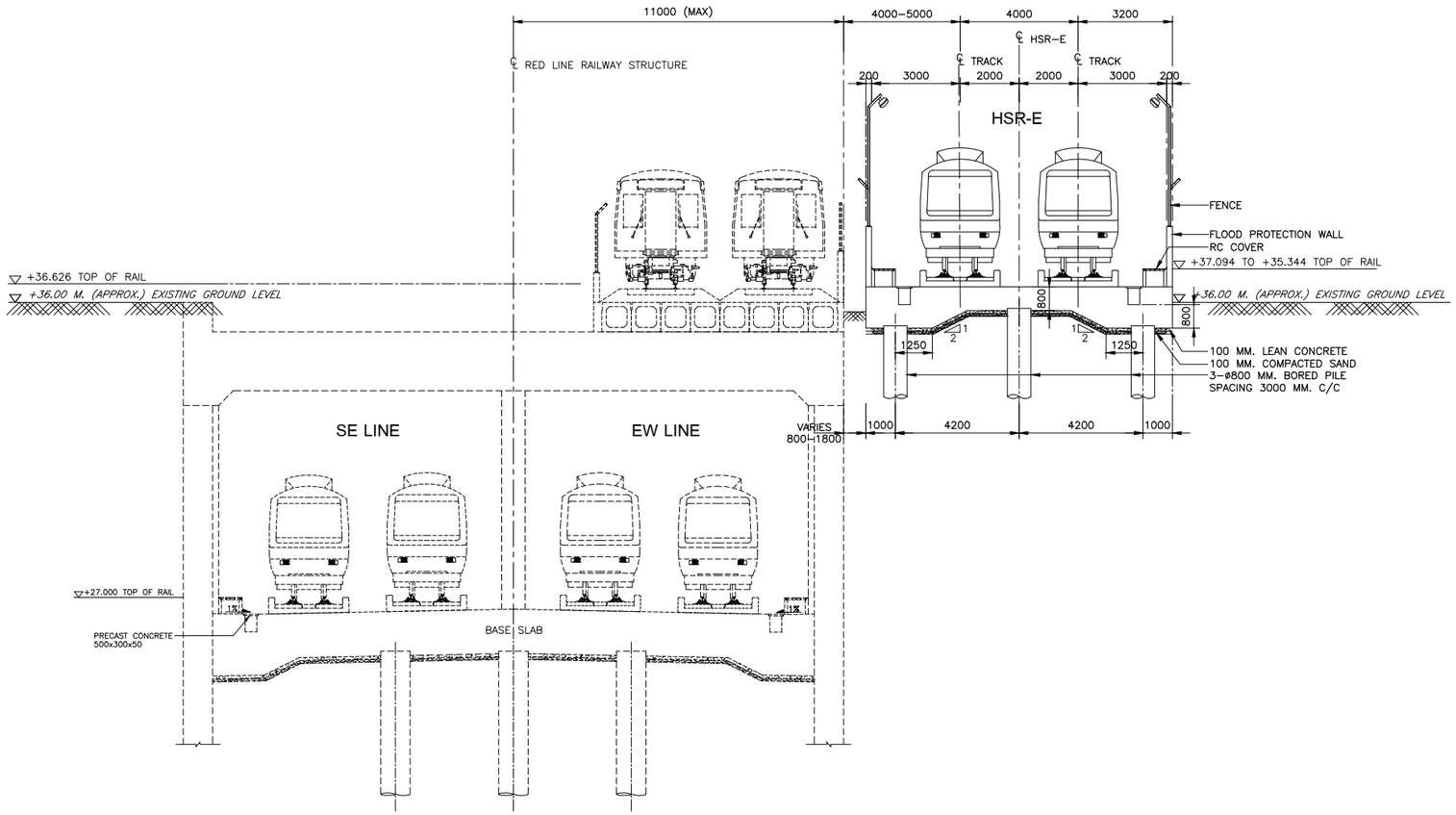


TYPICAL SECTION FOR PHAYA THAI – DON MUEANG – STA. 0+700 TO 0+750

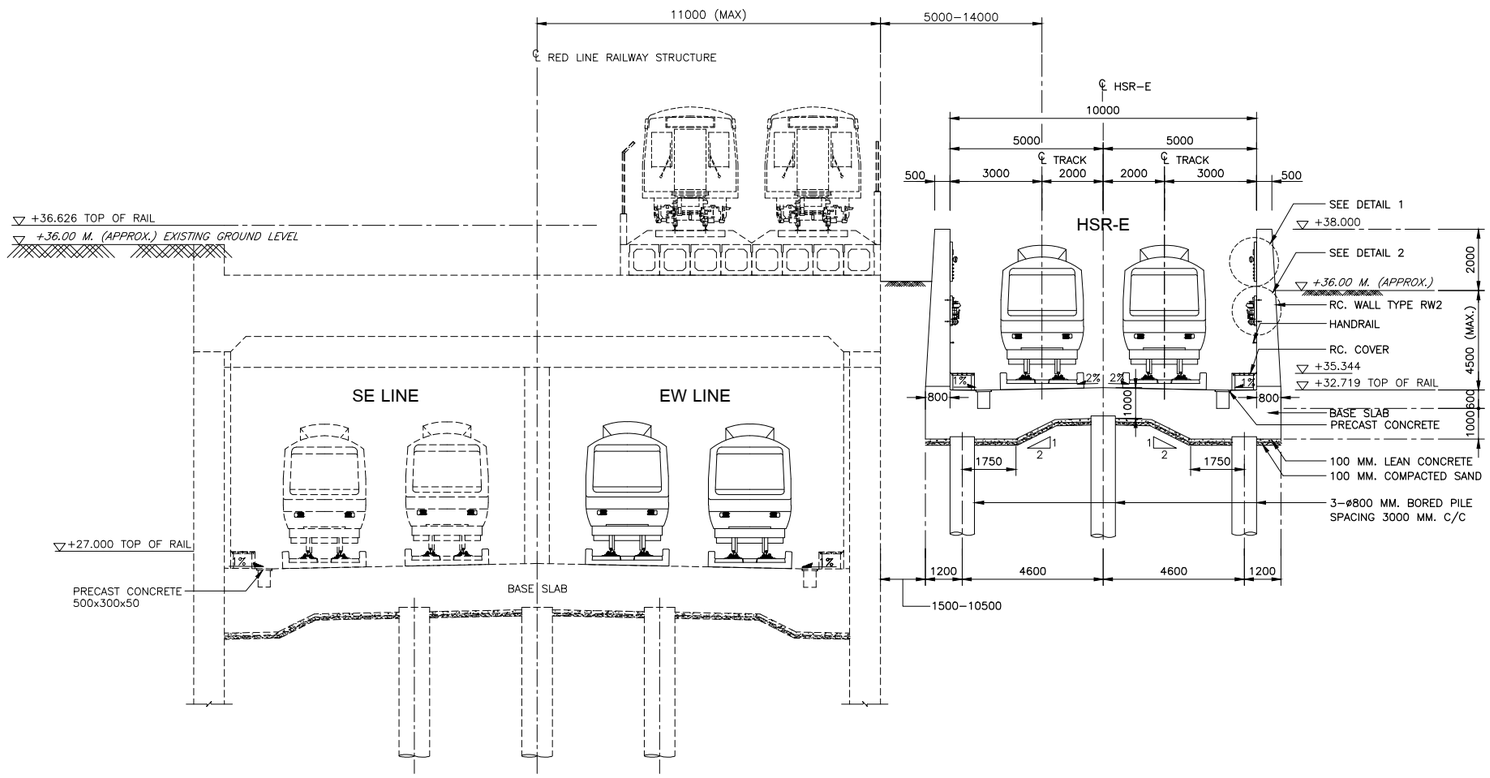
SCALE

A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 2	DATE : OCTOBER 2018 DRAWING NO. : S–2002–a	SCALE : AS SHOWN SHEET NO. : 7



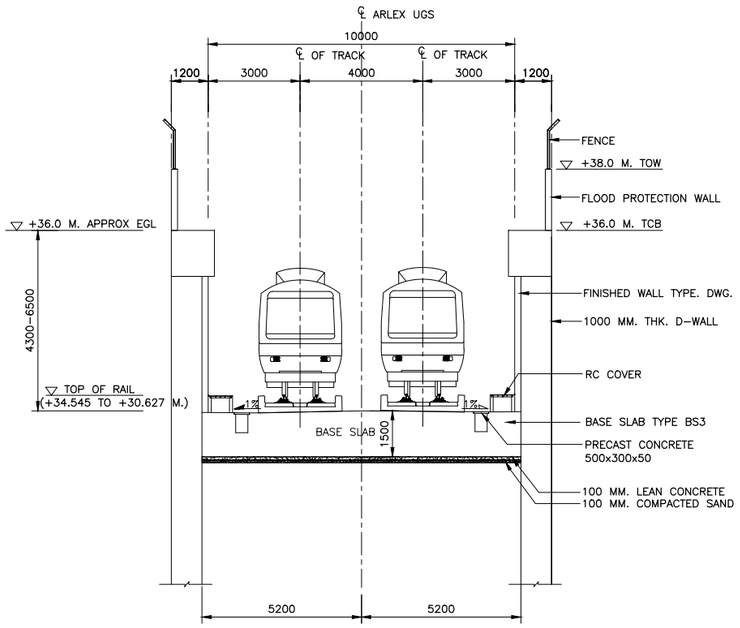
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG – STA. 0+750 TO 0+825

SCALE A1 = 1:100
A3 = 1:200

NOTE :

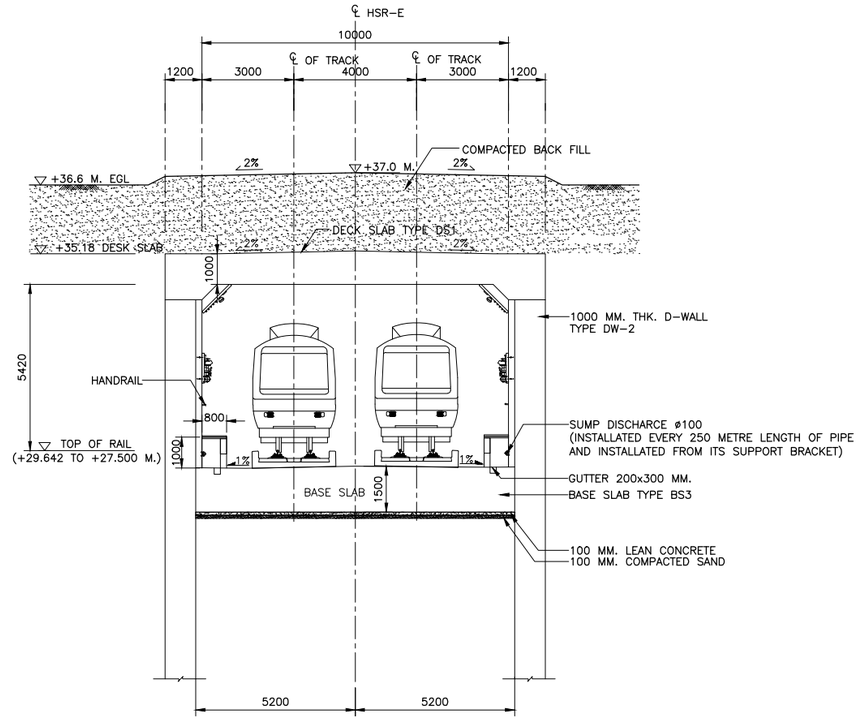
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 3	DATE : OCTOBER 2018 DRAWING NO. : S–2003–a	SCALE : AS SHOWN SHEET NO. : 8



TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
OPEN TRENCH STRUCTURE
(STA. 0+825 TO 0+935 OF ARLEX)

SCALE
A1 = 1:100
A3 = 1:200



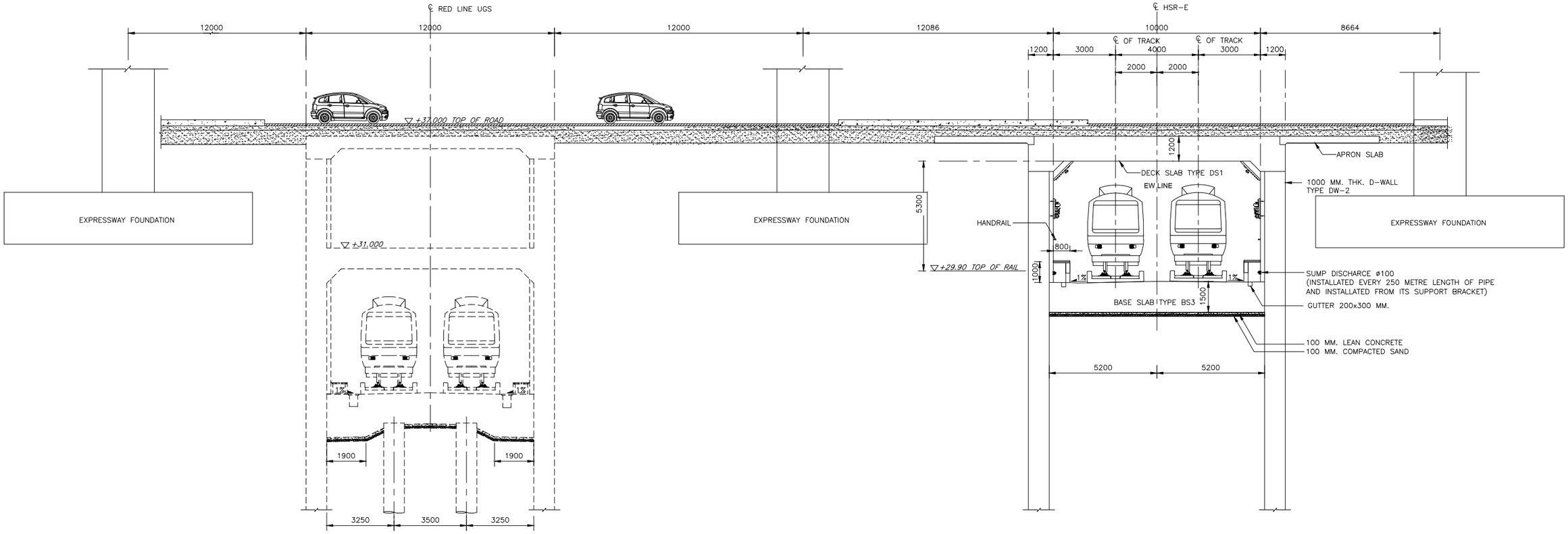
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
TYPICAL SECTION–CUT AND COVER TUNNEL
(STA. 0+990 TO 1+380 OF ARLEX)

SCALE
A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 4	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S-2004-a	SHEET NO. : 9



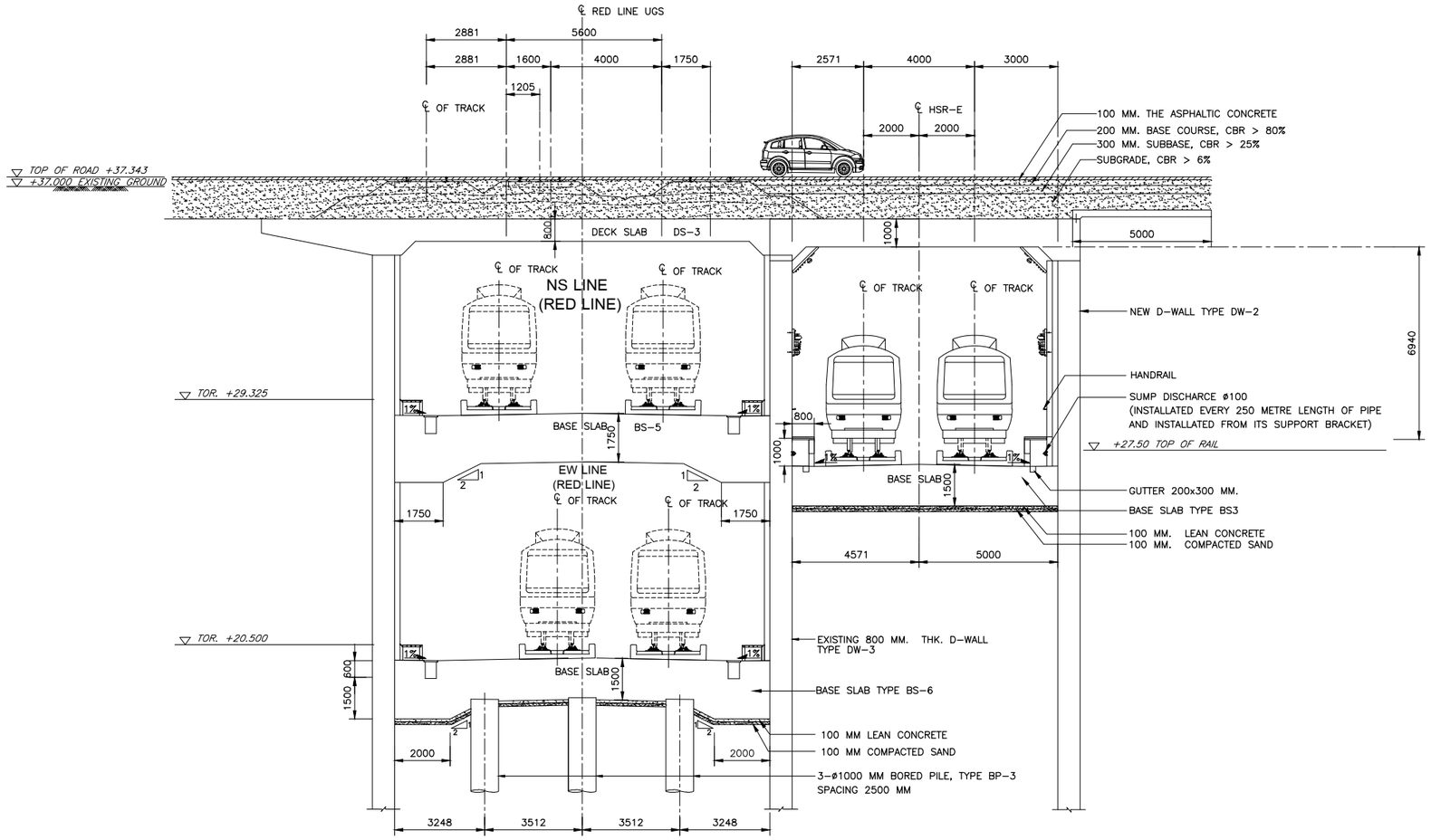
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 0+975 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 5	DATE : OCTOBER 2018 DRAWING NO. : S-2005-a	SCALE : AS SHOWN SHEET NO. : 10



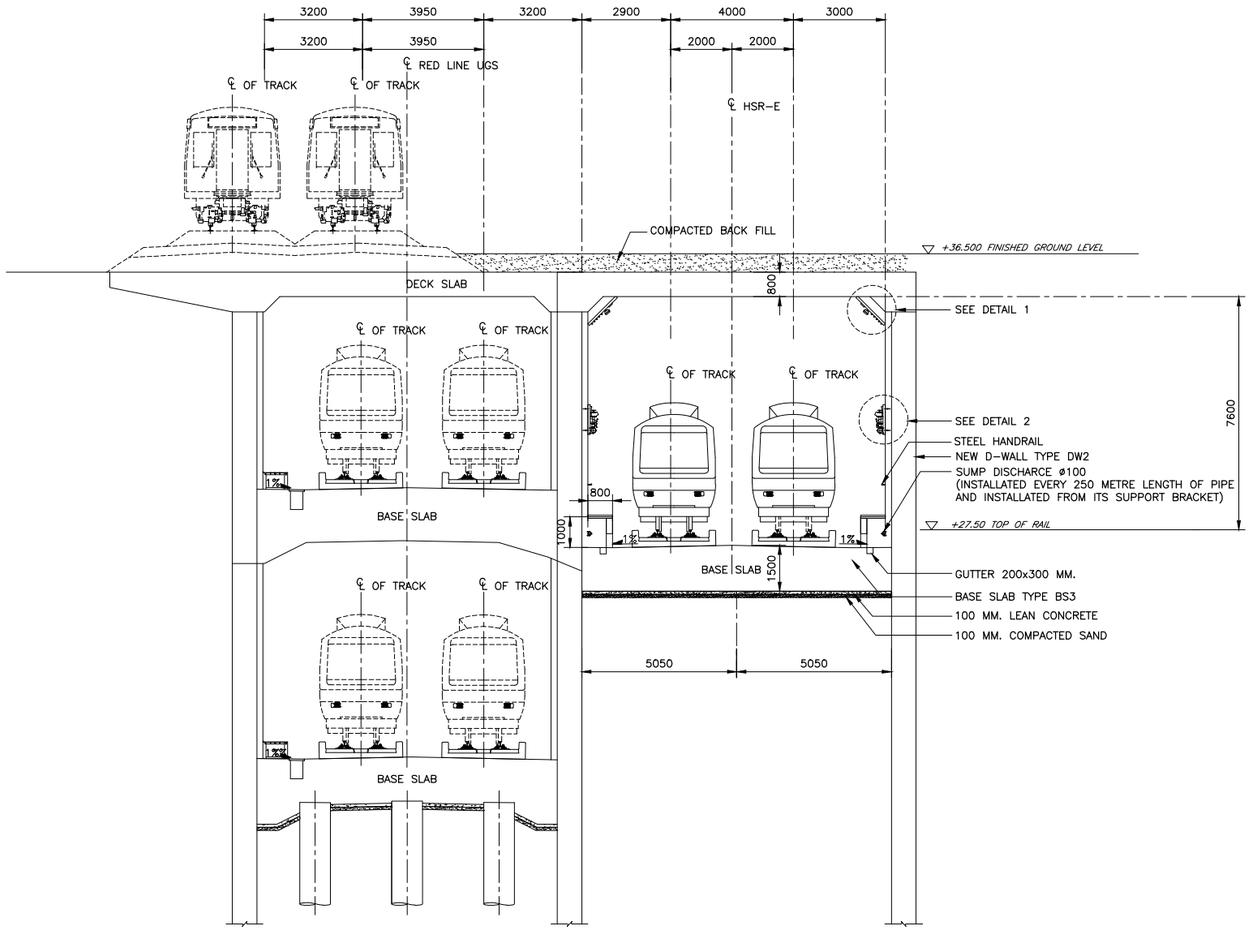
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 1+400 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

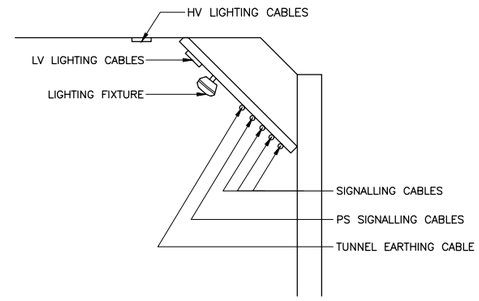
NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

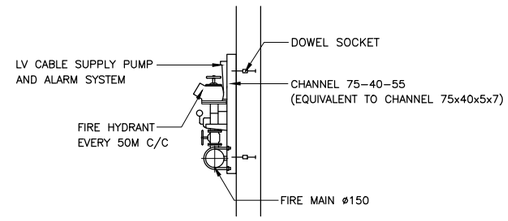
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 6	DATE : OCTOBER 2018 DRAWING NO. : S-2006-a	SCALE : AS SHOWN SHEET NO. : 11



TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 1+420 TO 1+790 OF ARLEX)
SCALE A1 = 1:100
A3 = 1:200



DETAIL 1
SCALE A1 = 1:25
A3 = 1:50



DETAIL 2
SCALE A1 = 1:25
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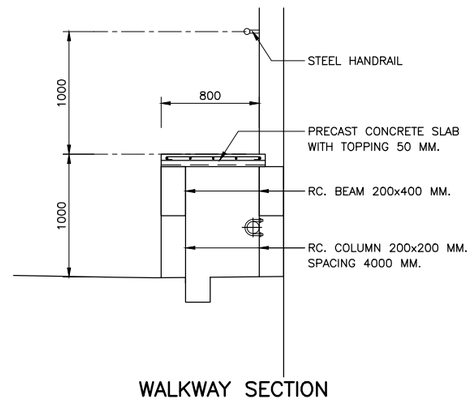

WALKWAY SECTION
SCALE A1 = 1:25
A3 = 1:50

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

Plot date: ???, 24/10/2561 5:25 PM

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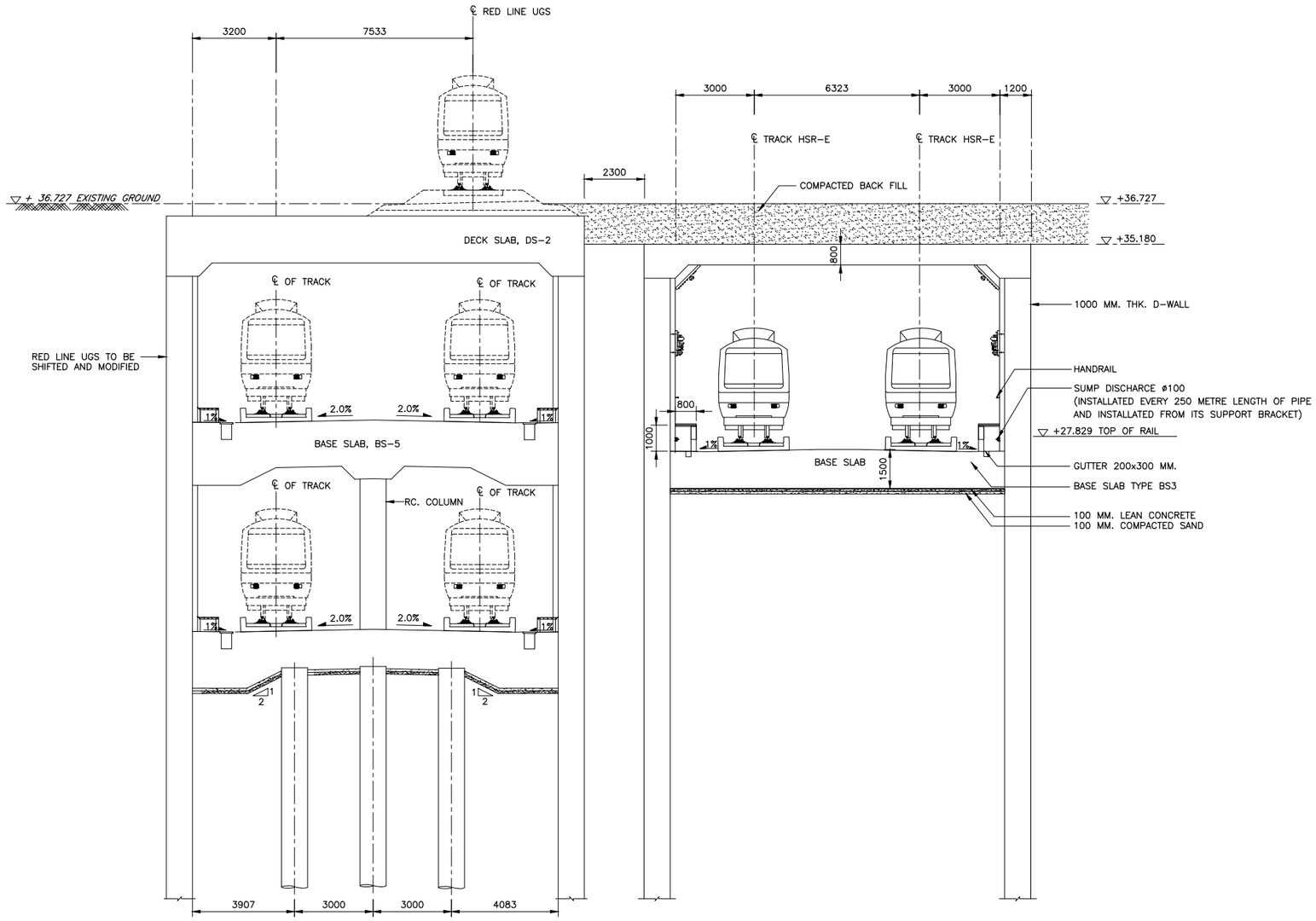
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 7	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S-2007-a	SHEET NO. : 12



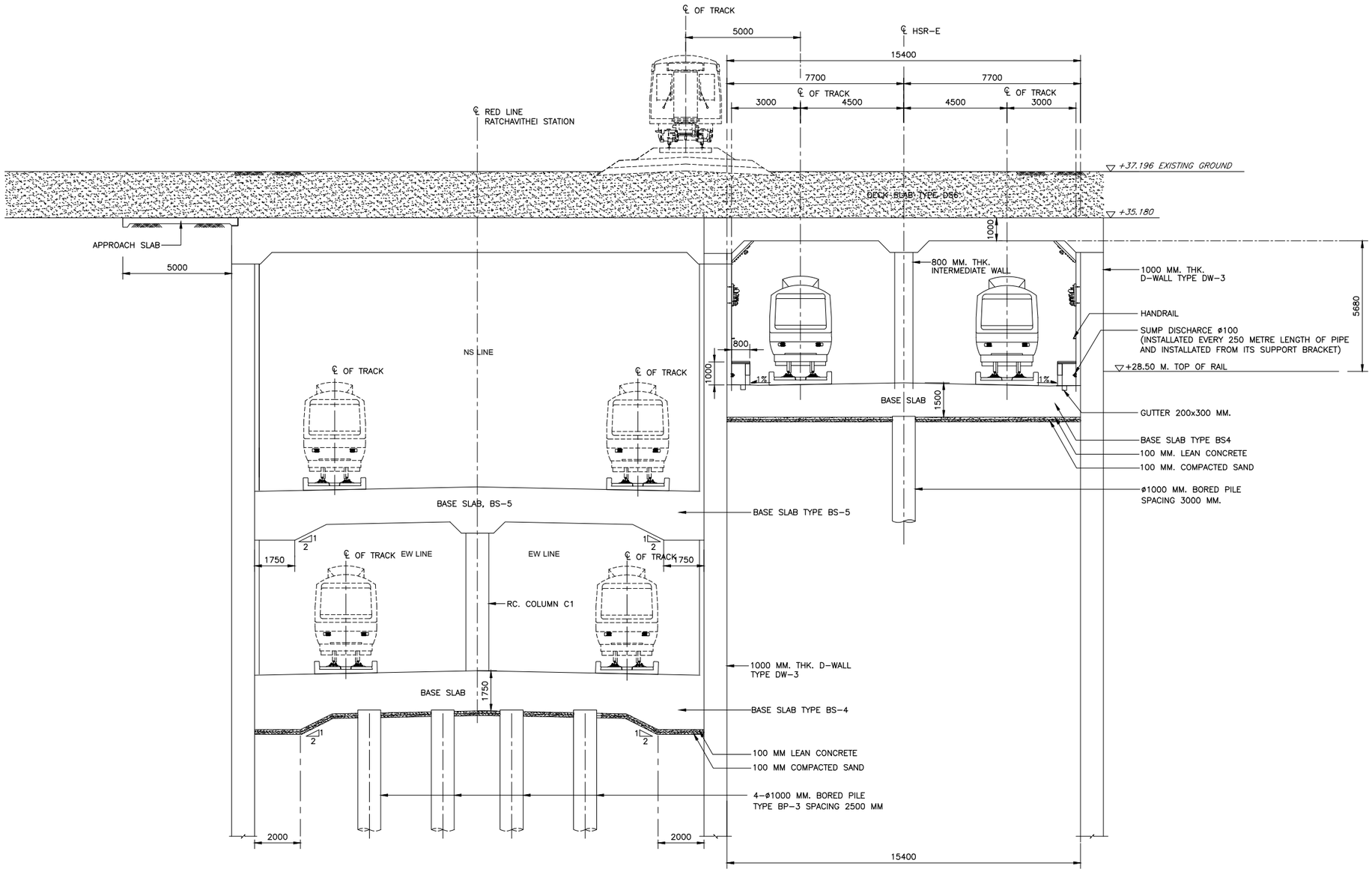
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 2+110 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 8	DATE : OCTOBER 2018 DRAWING NO. : S-2008-a	SCALE : AS SHOWN SHEET NO. : 13



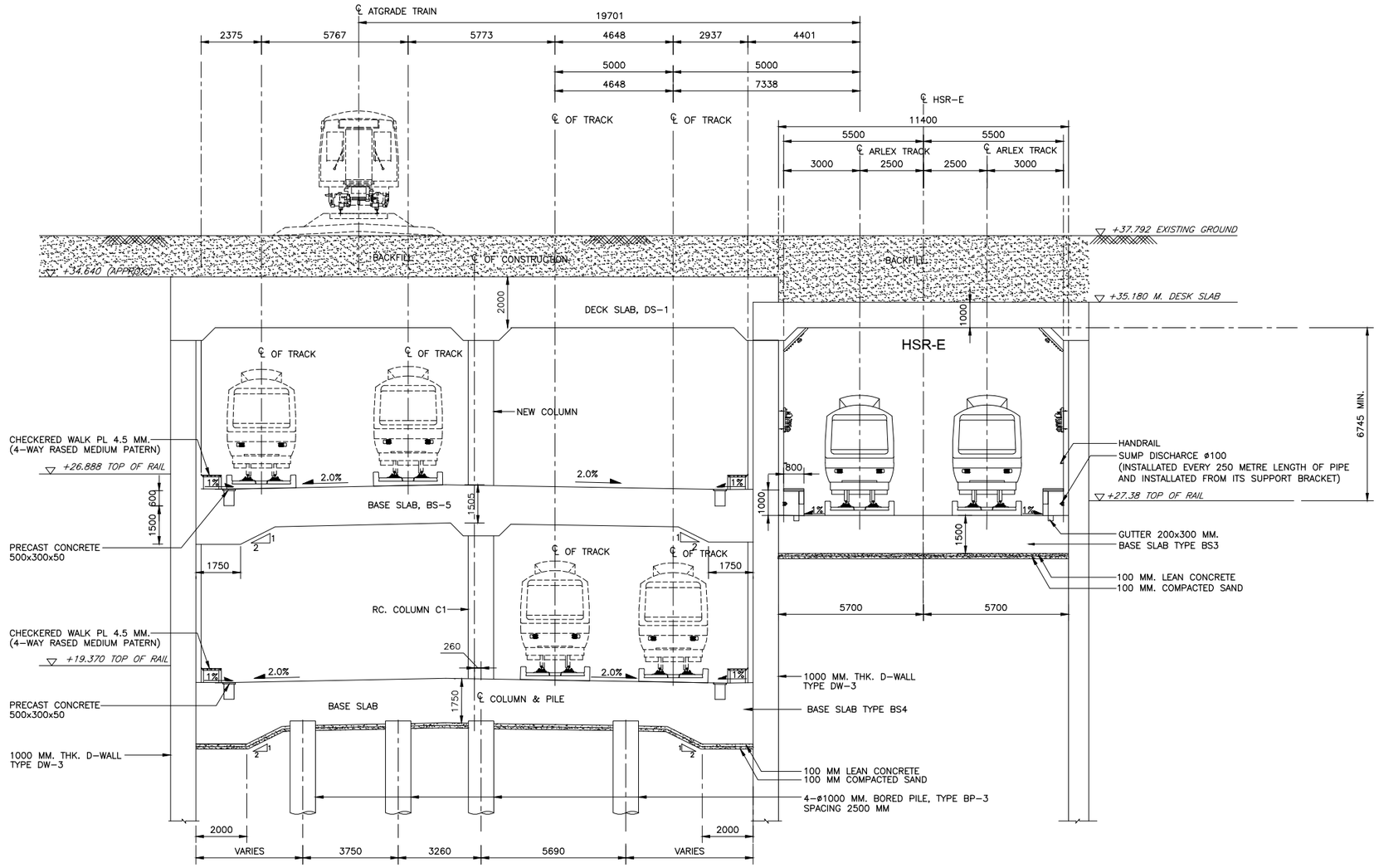
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG (STA. 2+600 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 9	DATE : OCTOBER 2018 DRAWING NO. : S-2009-a	SCALE : AS SHOWN SHEET NO. : 14



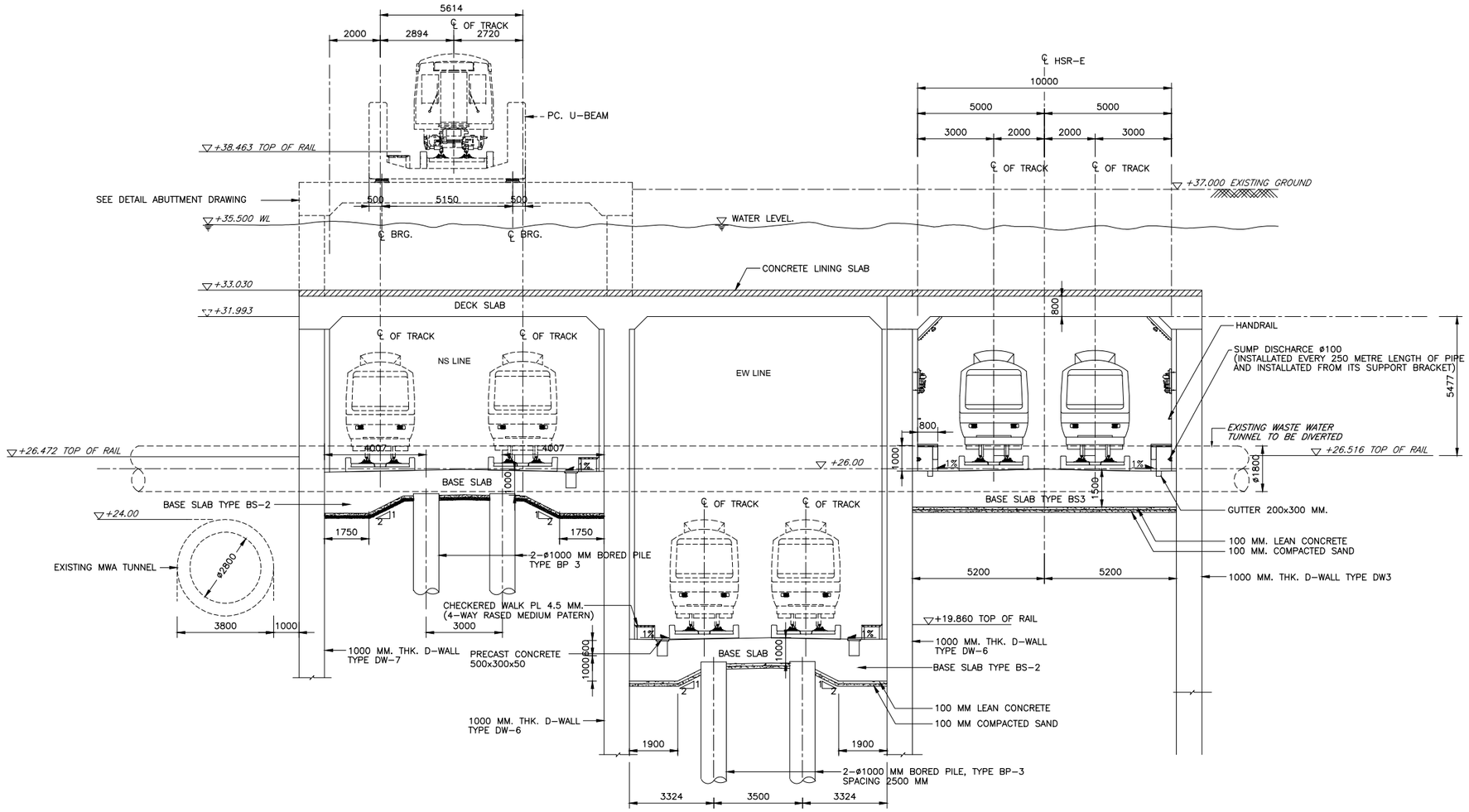
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 2+700 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 10	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S-2010-a	SHEET NO. : 15



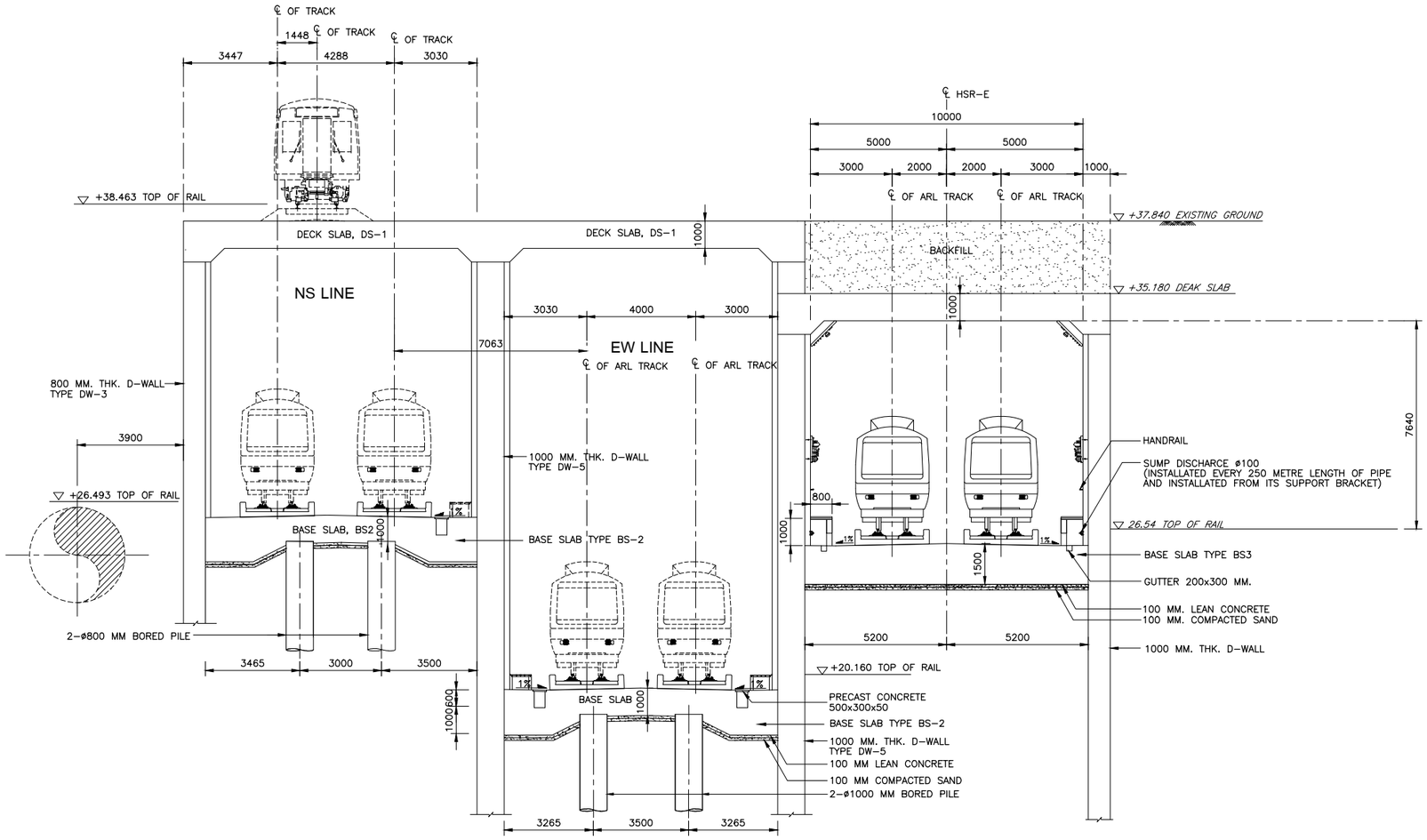
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 2+760 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

NOTE :
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 11	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S-2011-a	SHEET NO. : 16



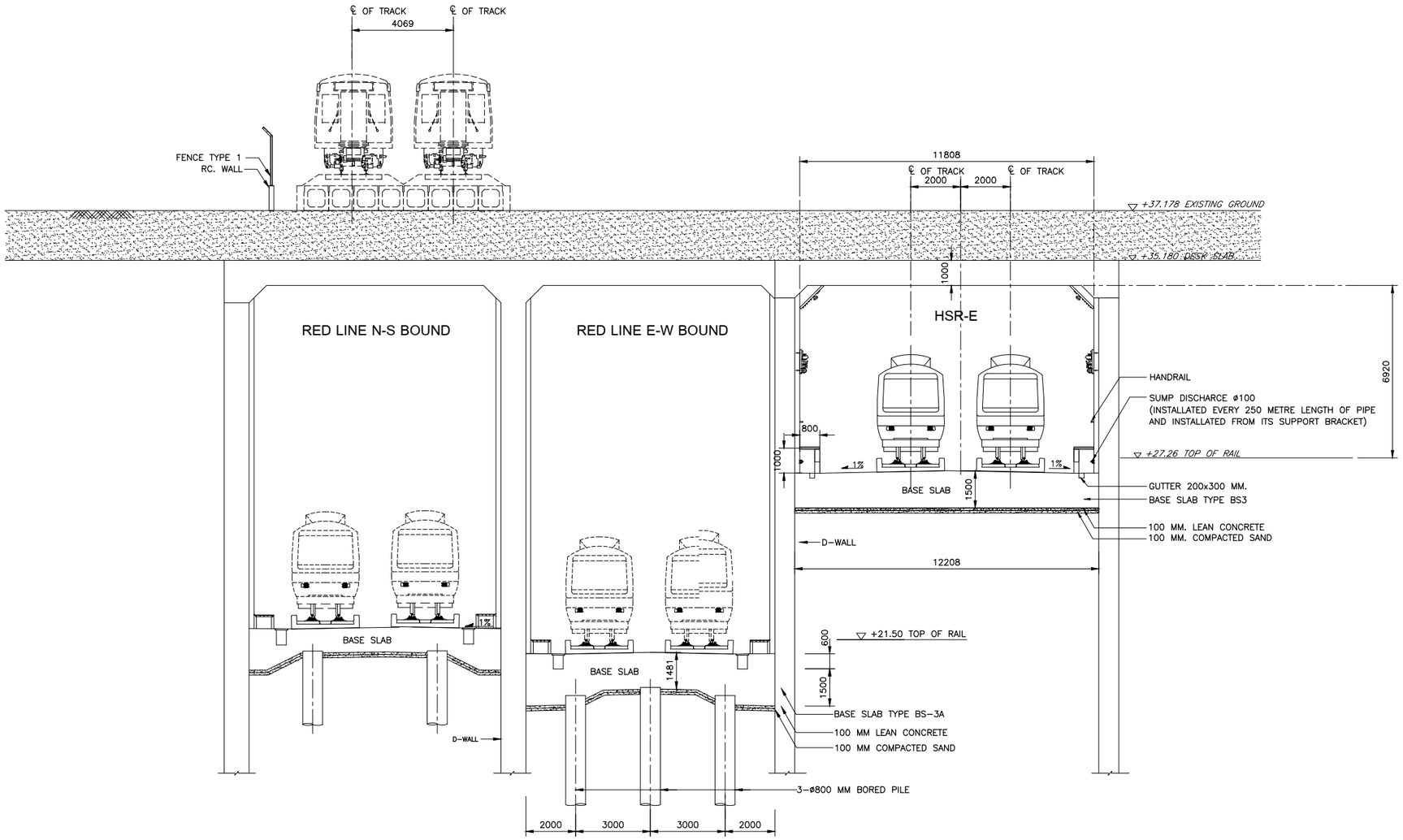
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 2+800 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 12	DATE : OCTOBER 2018 DRAWING NO. : S-2012-a	SCALE : AS SHOWN SHEET NO. : 17



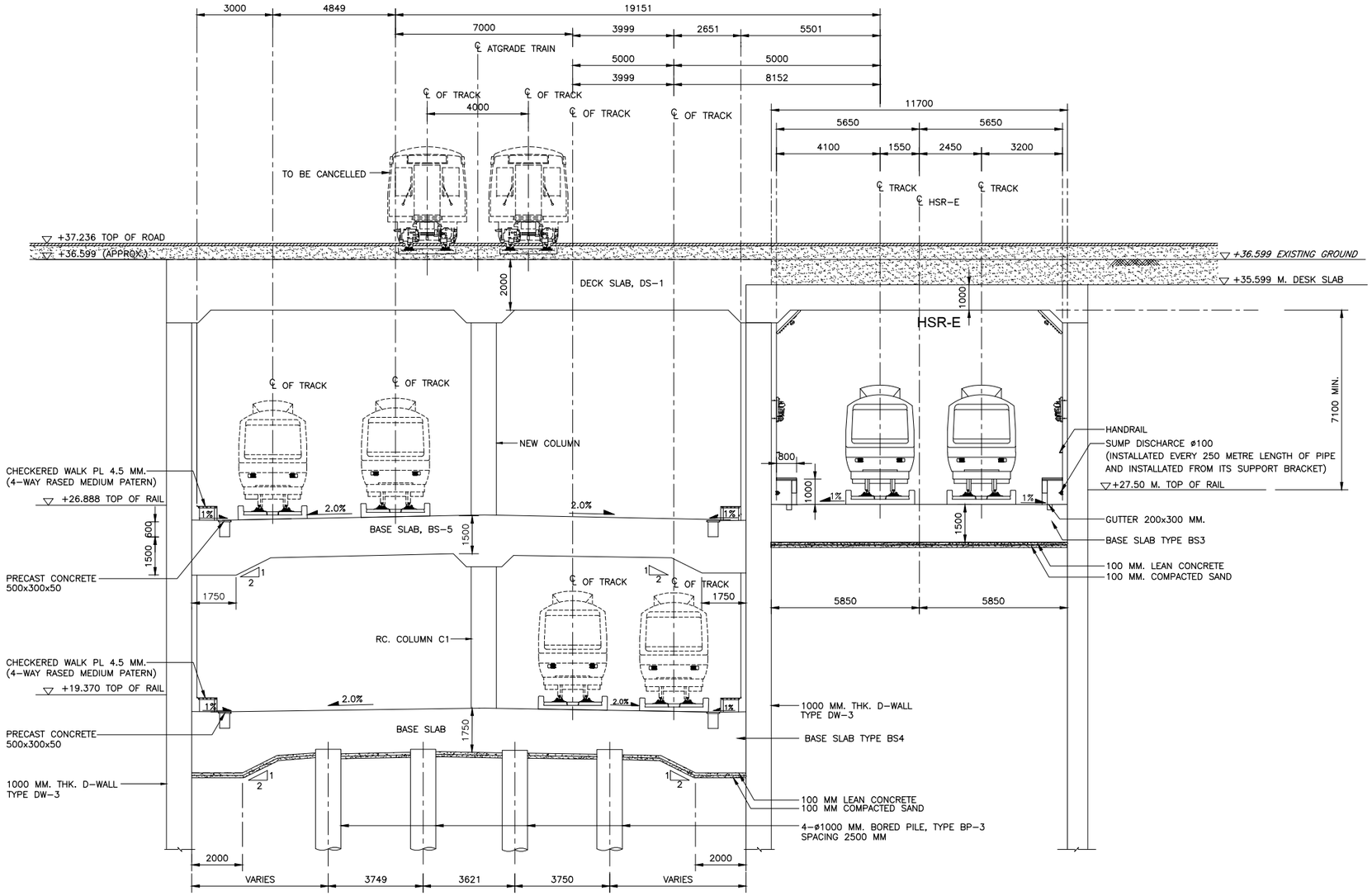
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 2+920 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 13	DATE : OCTOBER 2018 DRAWING NO. : S-2013	SCALE : AS SHOWN SHEET NO. : 18



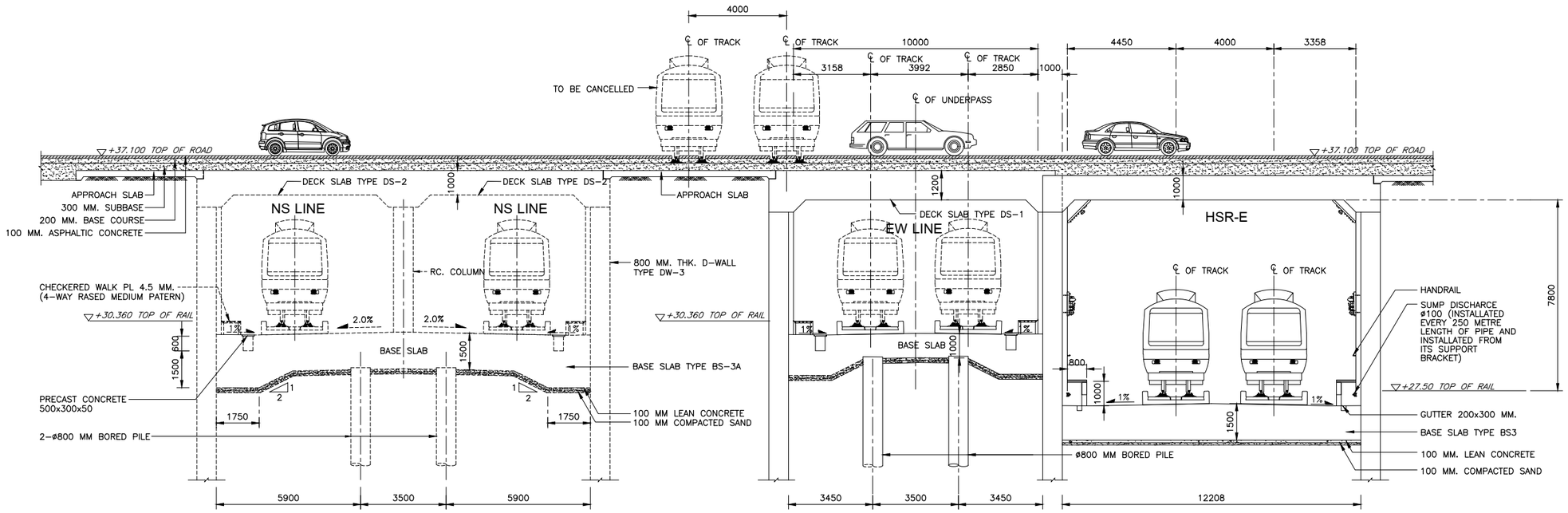
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 3+150 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 14	DATE : OCTOBER 2018 DRAWING NO. : S-2014-a	SCALE : AS SHOWN SHEET NO. : 19



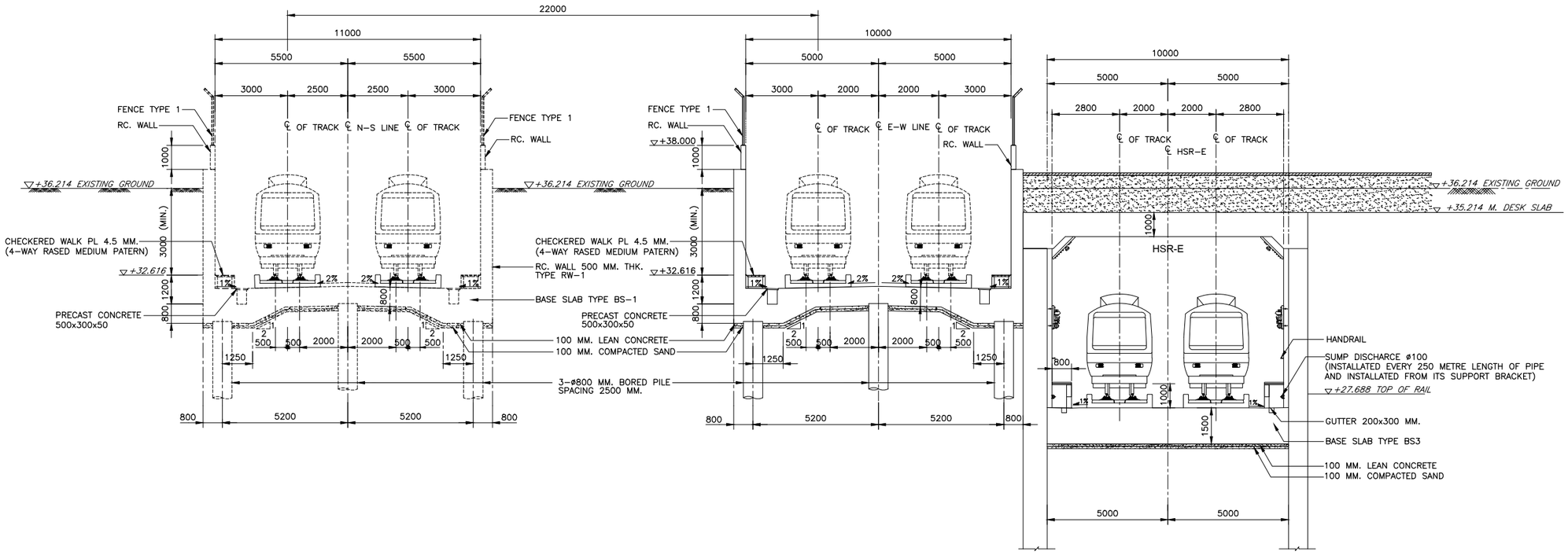
TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 3+625 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

NOTE :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

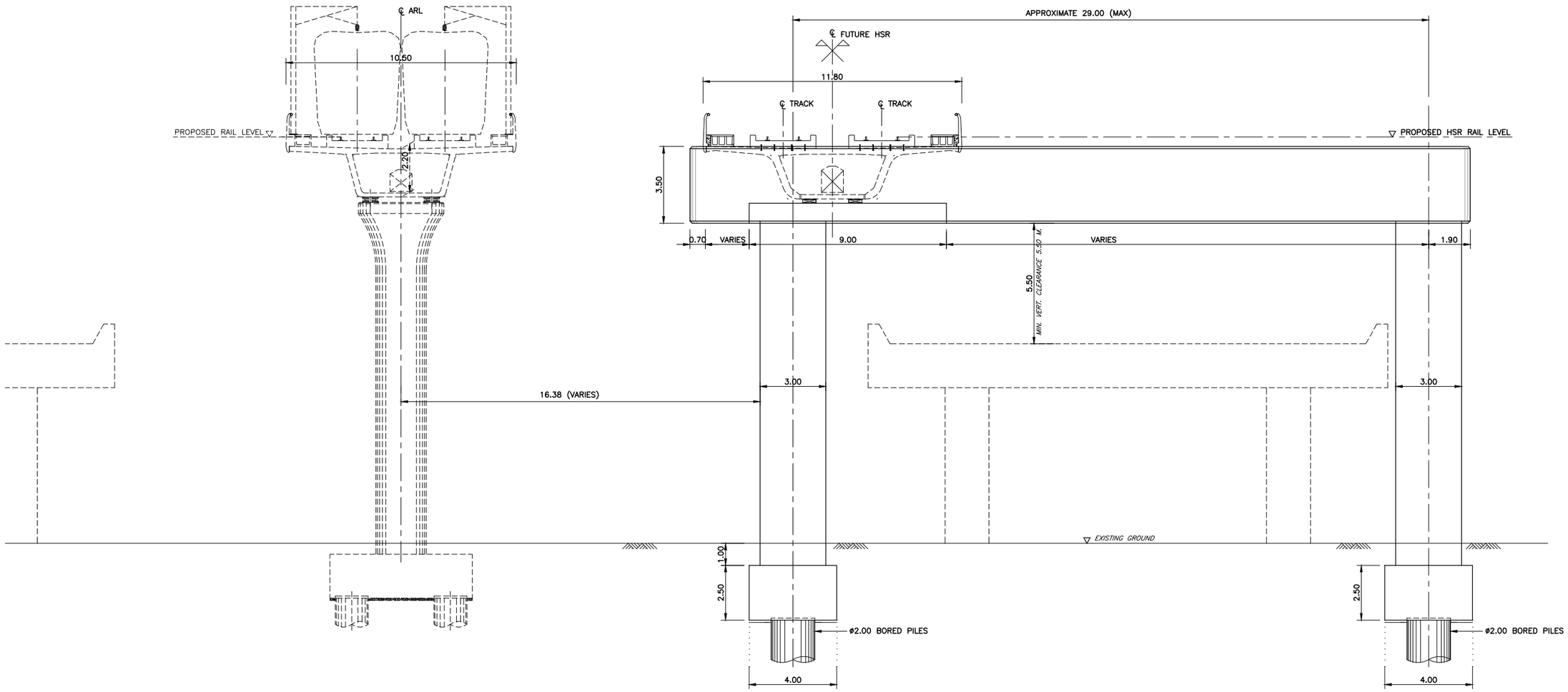
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 15	DATE : OCTOBER 2018 DRAWING NO. : S-2015-a	SCALE : AS SHOWN SHEET NO. : 20



TYPICAL SECTION FOR PHAYA THAI – DON MUEANG
(STA. 3+820 OF ARLEX)

SCALE A1 = 1:100
A3 = 1:200

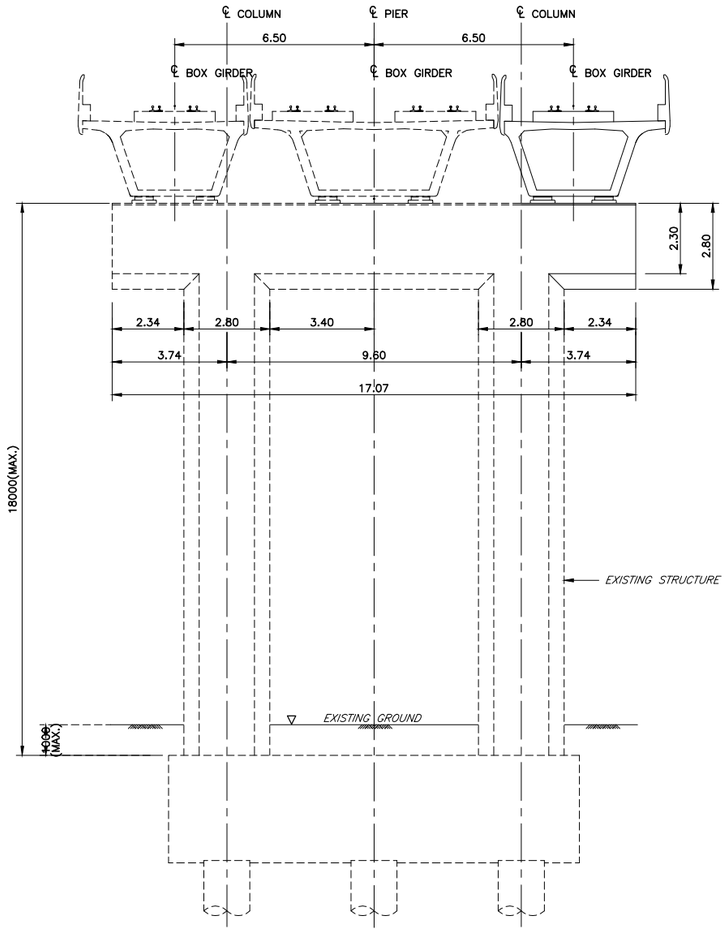
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 16	DATE : OCTOBER 2018 DRAWING NO. : S–2016–a	SCALE : AS SHOWN SHEET NO. : 21



TYPICAL SECTION FOR SUVARNABHUMI AIRPORT ACCESS
2–TRACK STRUCTURE STA. 3+988.000

SCALE A1 = 1:100
A3 = 1:200

STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION SHEET 35	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S–2403–a	SHEET NO. : 22



TYPICAL SECTION FOR ARL ACCESS

SCALE A1 = 1:100
A3 = 1:200

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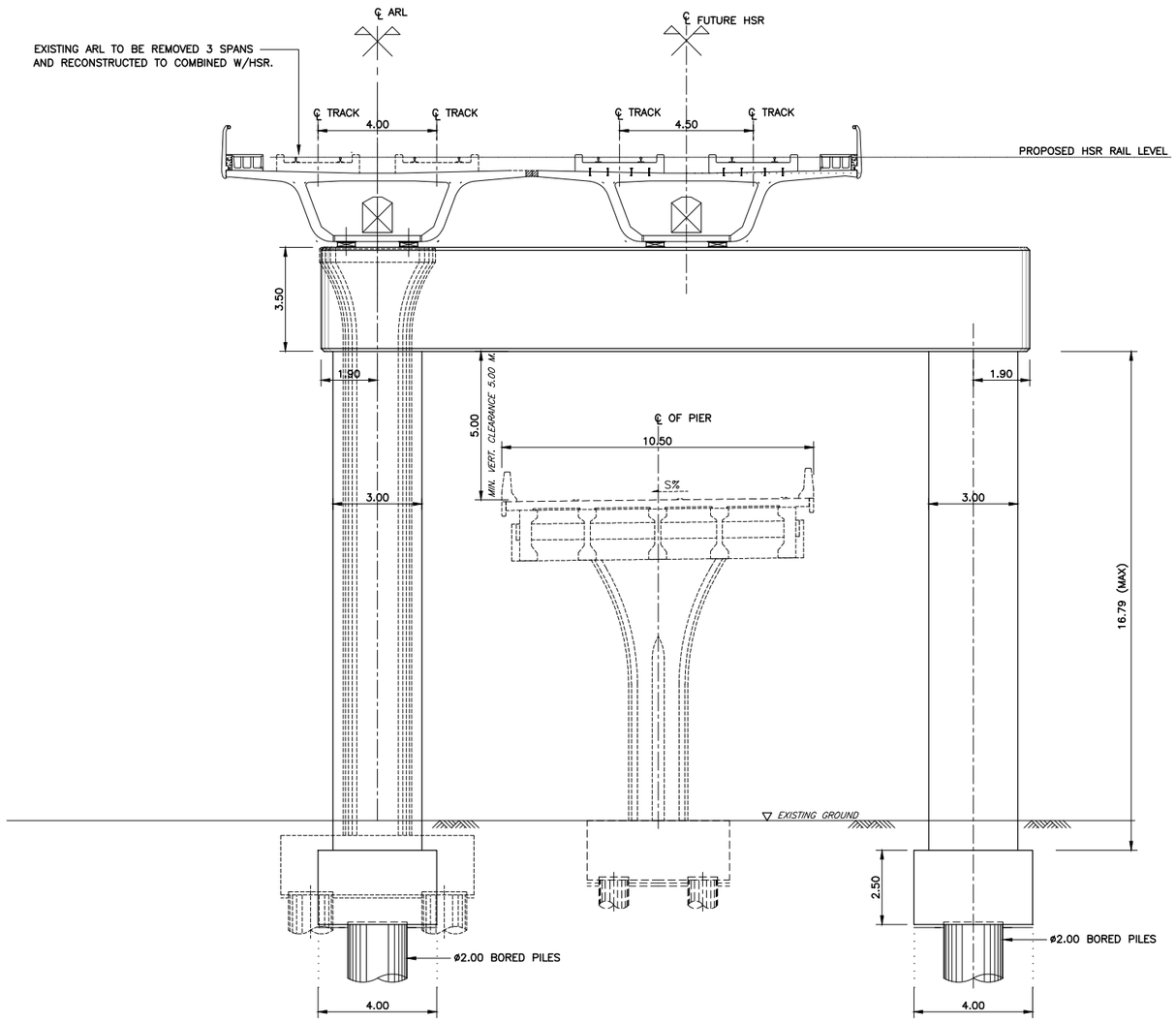
STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTIONS SHEET 36	DATE : OCTOBER 2018	SCALE : AS SHOWN
				DRAWING NO. : S-2404-a	SHEET NO. : 23



TYPICAL SECTION FOR SUVARNABHUMI AIRPORT ACCESS
2–TRACK STRUCTURE STA. 3+189.324

SCALE
A1 = 1:100
A3 = 1:200

Plot date: ??????? 25/10/2561 11:03 AM

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STATE RAILWAY OF THAILAND MINISTRY OF TRANSPORT	THE HIGH-SPEED RAIL LINKING THREE AIRPORTS PROJECT	ABC Asian Engineering Consultants Corp., Ltd. TEAM Consulting Engineering and Management Co., Ltd. Sasin Graduate Institute of Business Administration of Chulalongkorn University	TITLE : TYPICAL SECTION SHEET 37	DATE : OCTOBER 2018 DRAWING NO. : S–2405–a	SCALE : AS SHOWN SHEET NO. : 24