MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
THE REPUBLIC OF INDIA

THE PREPARATORY SURVEY
ON
THE PROJECT FOR CONSTRUCTION OF
MUMBAI TRANS HARBOUR LINK
IN
THE REPUBLIC OF INDIA

FINAL REPORT

DRAWINGS

JANUARY 2016

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.
EAST NIPPON EXPRESSWAY CO., LTD.
NIPPON KOEI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

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G.
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Mark	Date	By	Rev.

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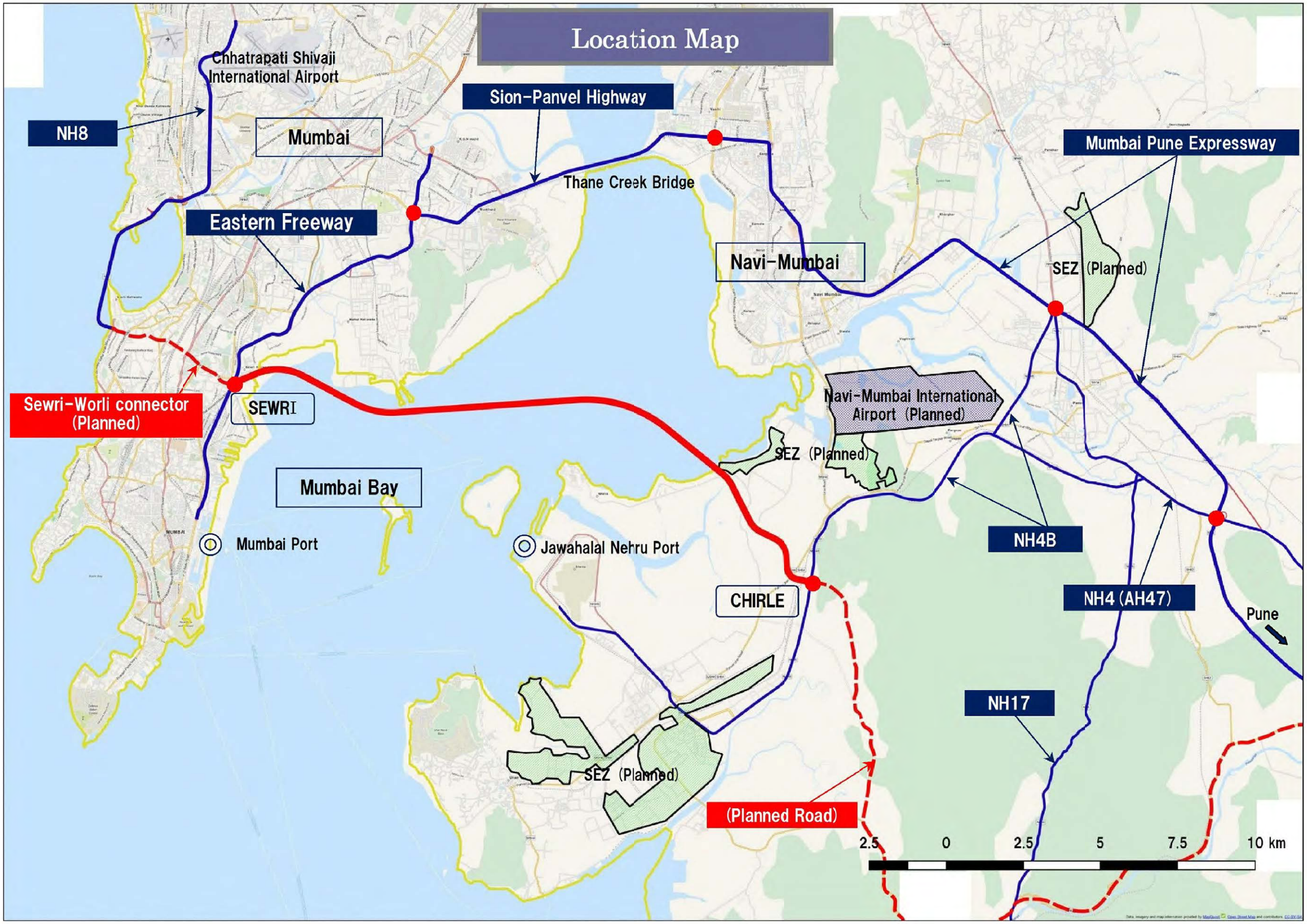
Drawing Title: Index of Drawings

Drawing Status:

Drawing No.: G-001

Rev.:



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Drawing Title: LOCATION MAP

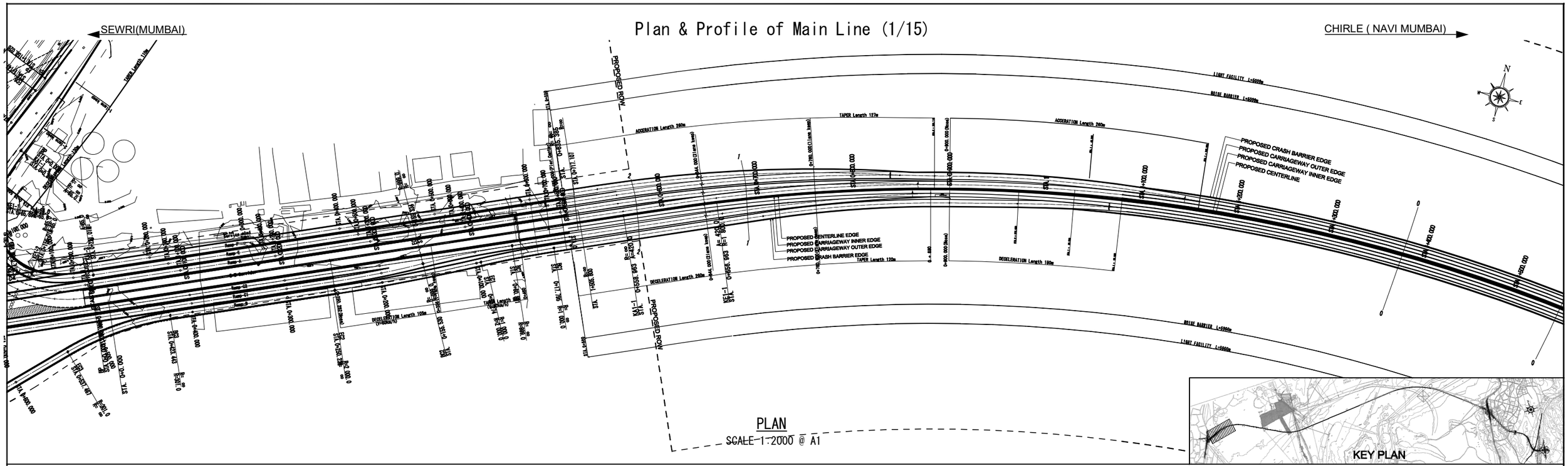
Drawing Status:

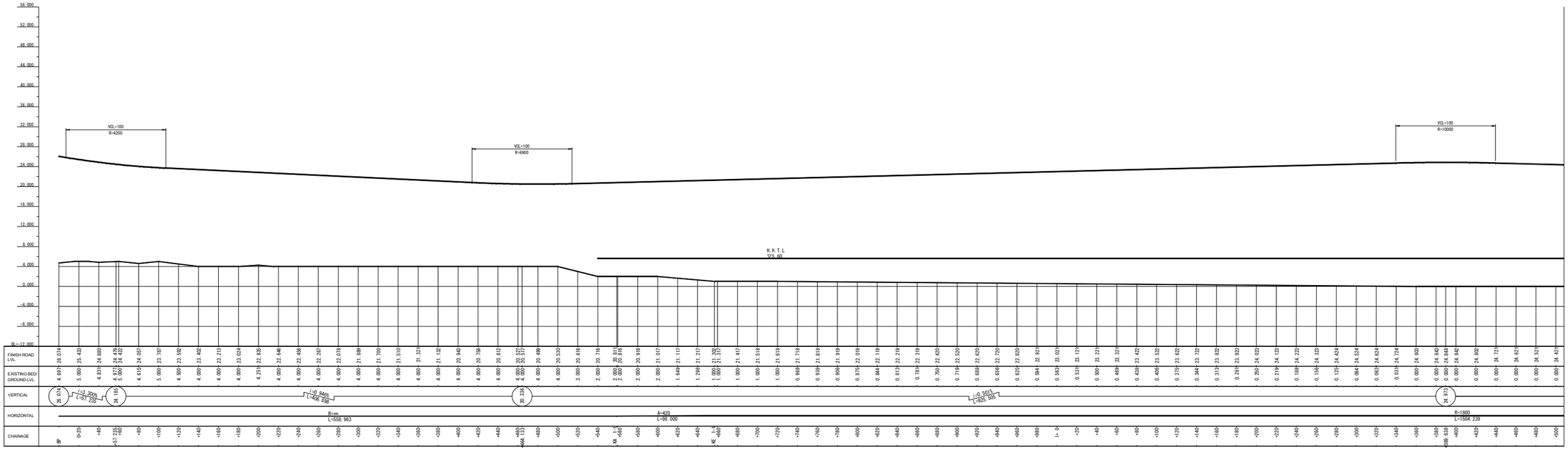
Drawing No.: G-002

Rev.:

H.
HIGHWAY

Plan & Profile of Main Line (1/15)





PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

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Drawing Title
Plan & Profile of Main Line (1/15)
FROM CH 0+000 TO CH 1+500

Drawing Status

Drawing No. H-001

Rev.

Plan & Profile of Main Line (2/15)

SEWRI(MUMBAI) ← → CHIRLE (NAVI MUMBAI)

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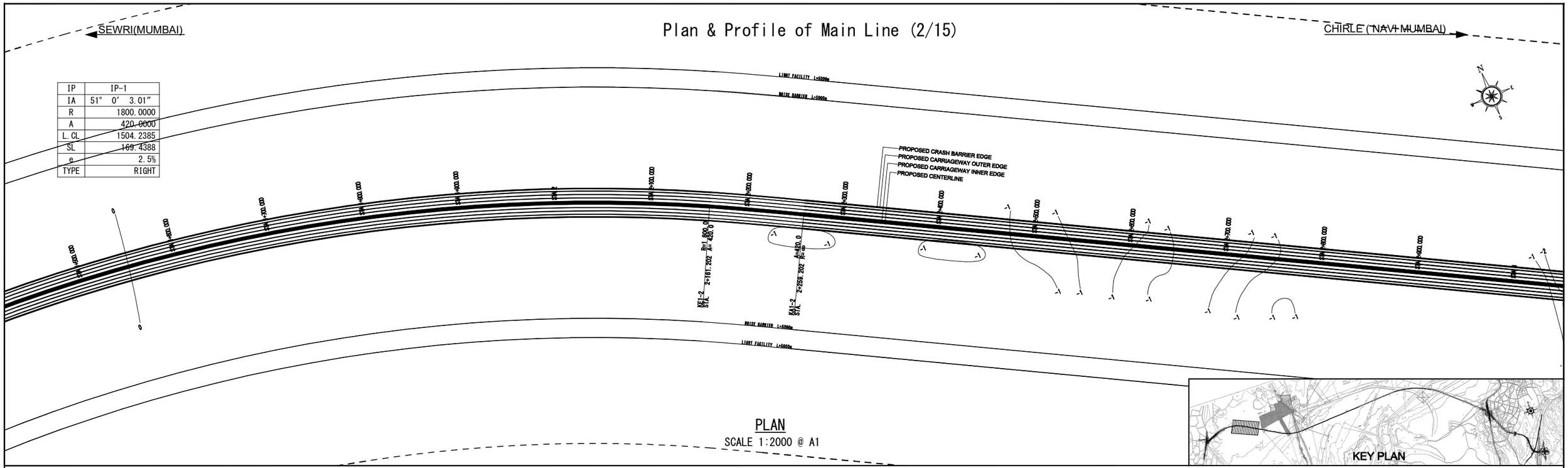
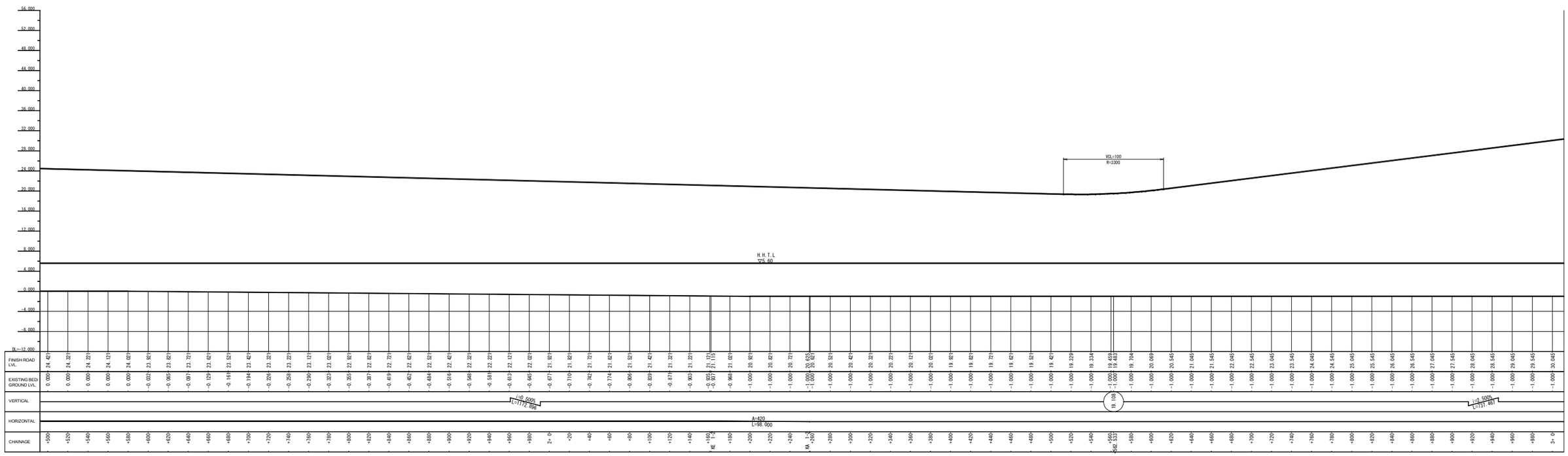


PLAN

SCALE 1:2000 @ A1



PROFILE

SCALE H=1:2000 V=400 @ A1

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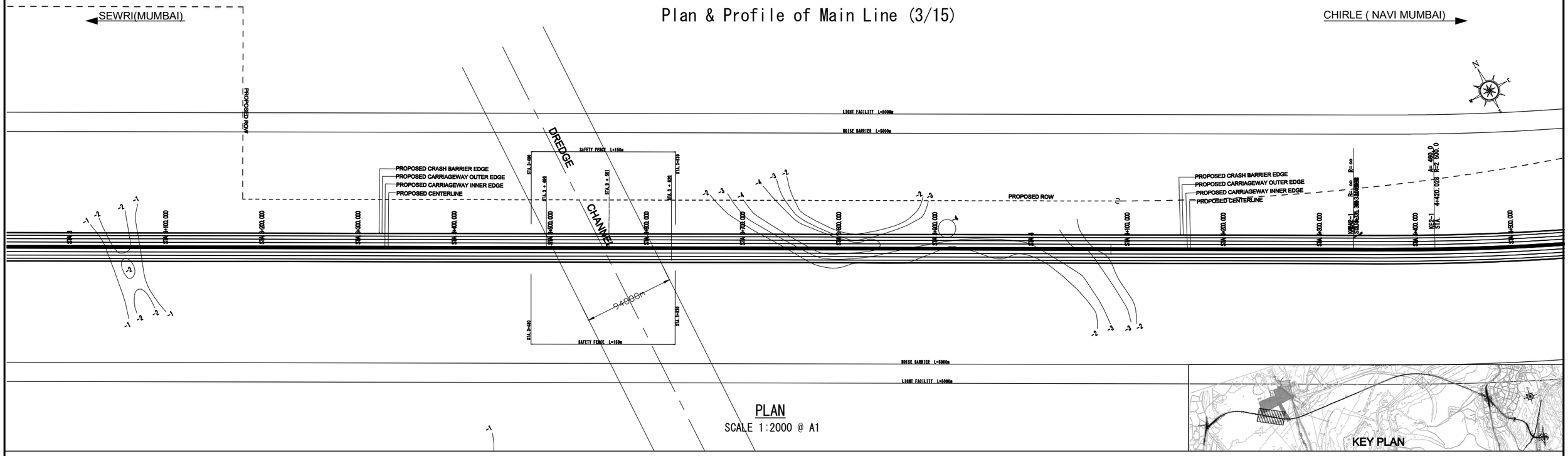
Drawing Title: Plan & Profile of Main Line (2/15) FROM CH 1+500 TO CH 3+000

Drawing Status:

Drawing No.: H-002

Rev.:

Plan & Profile of Main Line (3/15)



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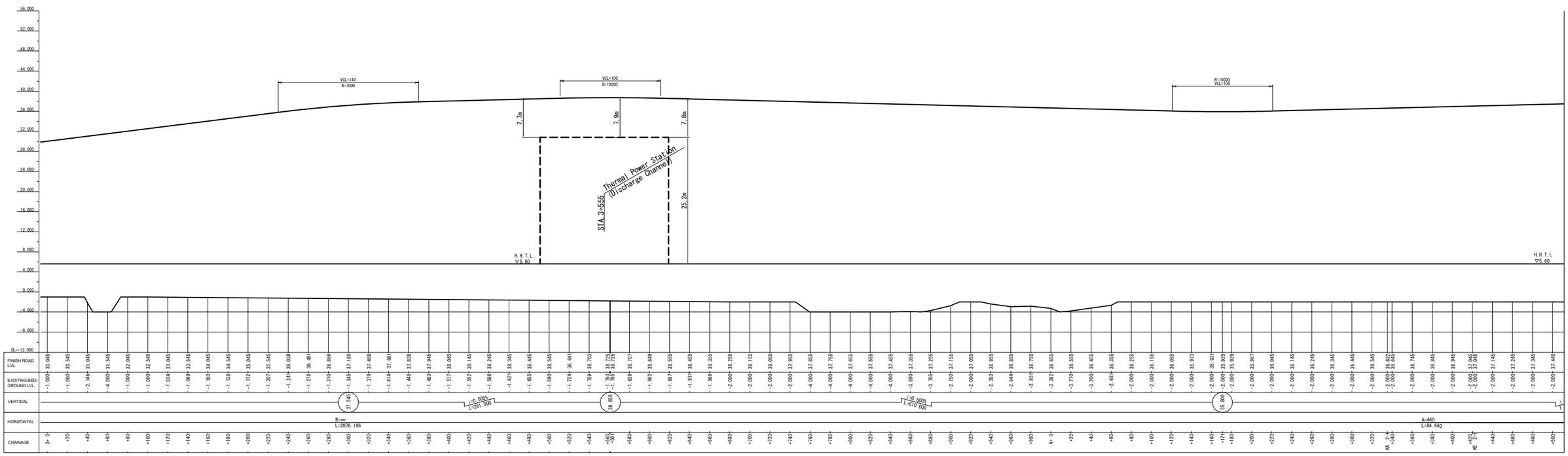

PROFILE
SCALE H=1:2000 V=400 @ A1

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Drawing Title
Plan & Profile of Main Line (3/15)
FROM CH 3+000 TO CH 4+500

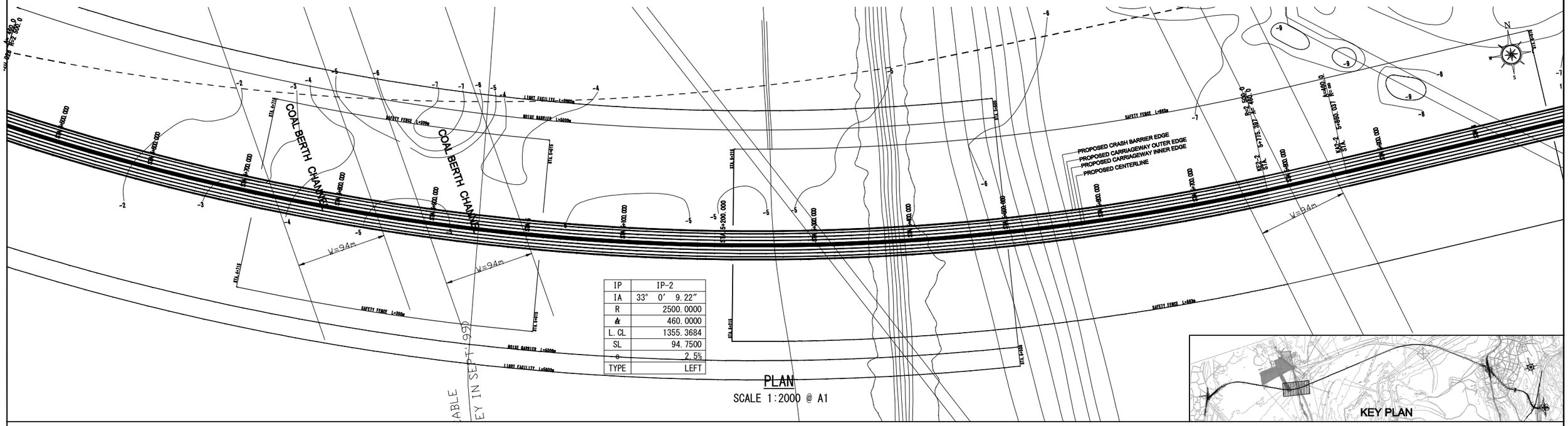
Drawing Status

Drawing No. H-003

Rev.

Plan & Profile of Main Line (4/15)

SEWRI(MUMBAI) ◄ ► CHIRLE (NAVI MUMBAI)



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PLAN
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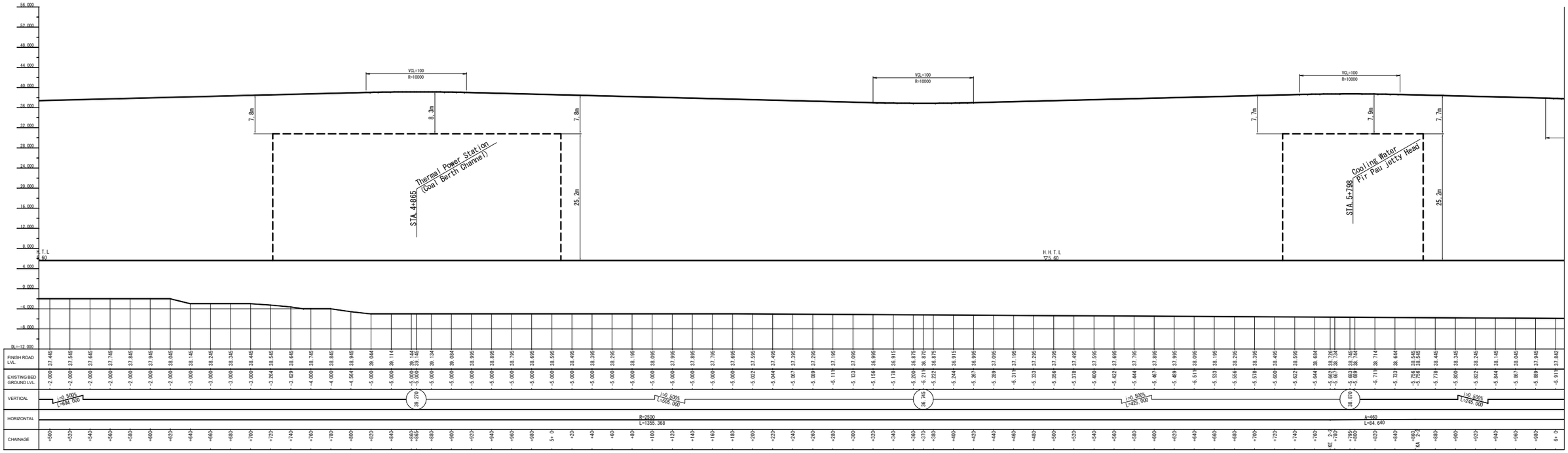

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SCALE H=1:2000 V=400 @ A1

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Drawing Title
Plan & Profile of Main Line (4/15)
FROM CH 4+500 TO CH 6+000

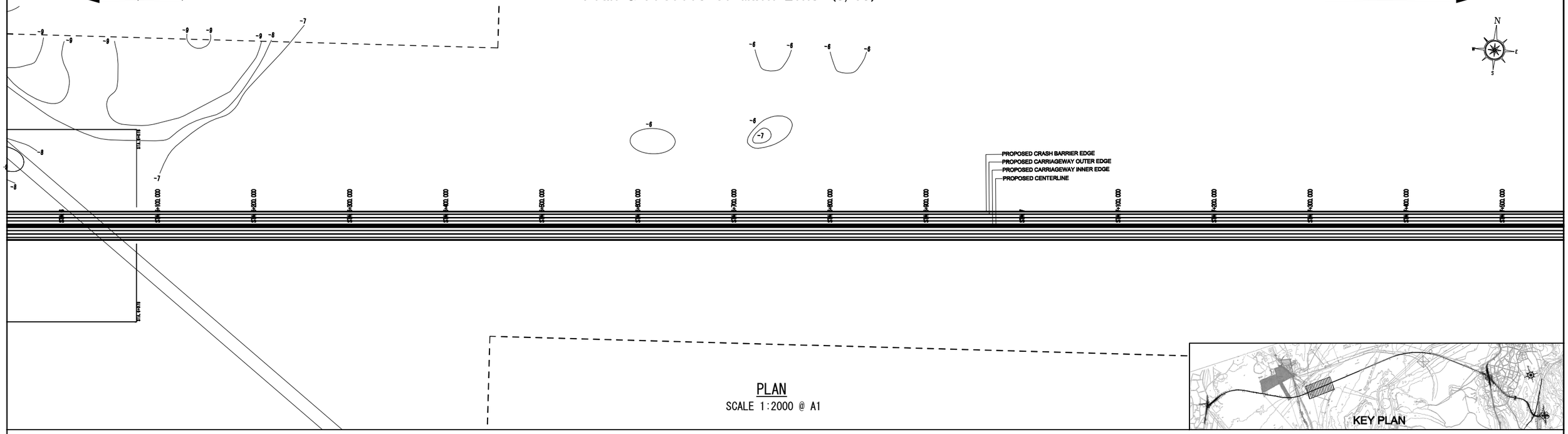
Drawing Status

Drawing No. H-004

Rev.

Plan & Profile of Main Line (5/15)

SEWRI(MUMBAI) ← → CHIRLE (NAVI MUMBAI)



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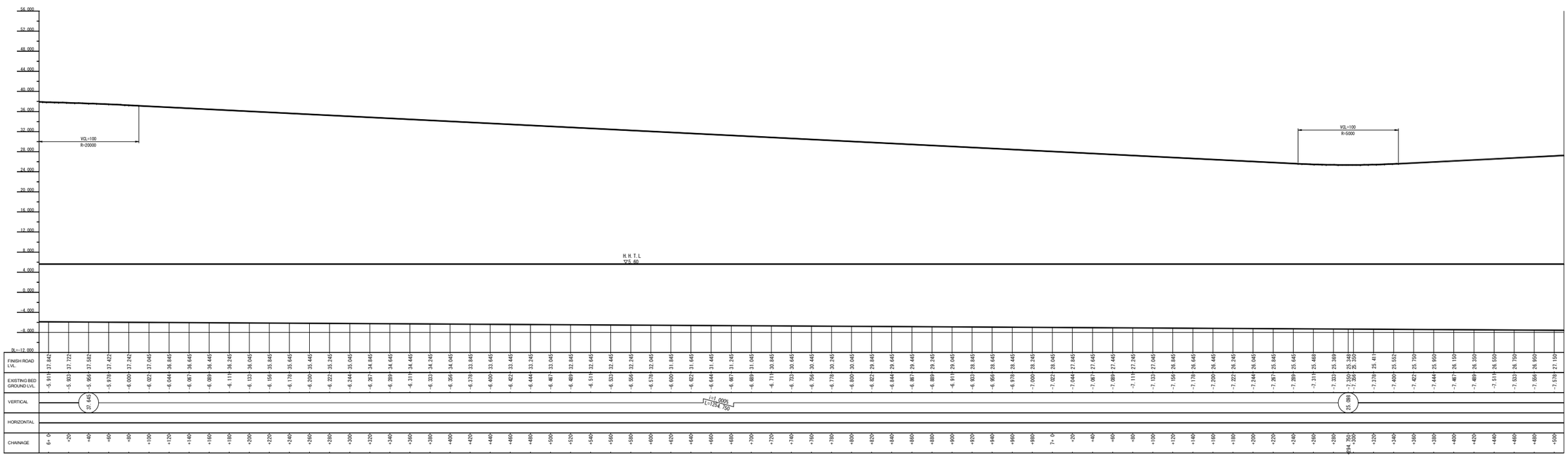

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SCALE H=1:2000 V=400 @ A1

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Drawing Title
Plan & Profile of Main Line (5/15)
FROM CH 6+000 TO CH 7+500

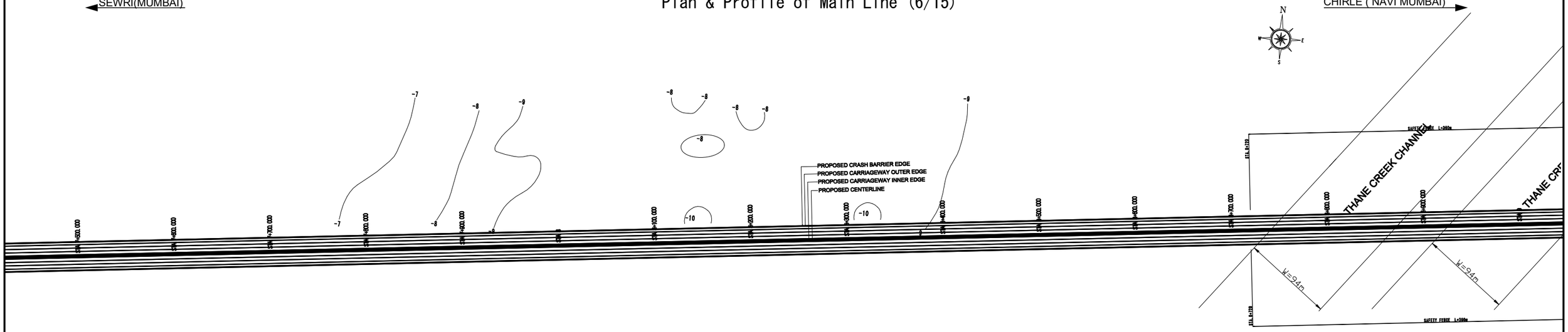
Drawing Status

Drawing No. H-005

Rev.

Plan & Profile of Main Line (6/15)

SEWRI(MUMBAI) ← → CHIRLE (NAVI MUMBAI)



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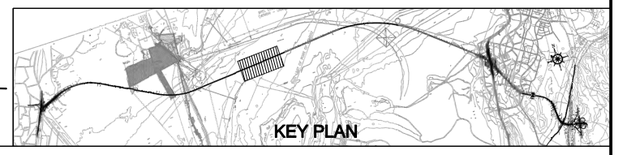

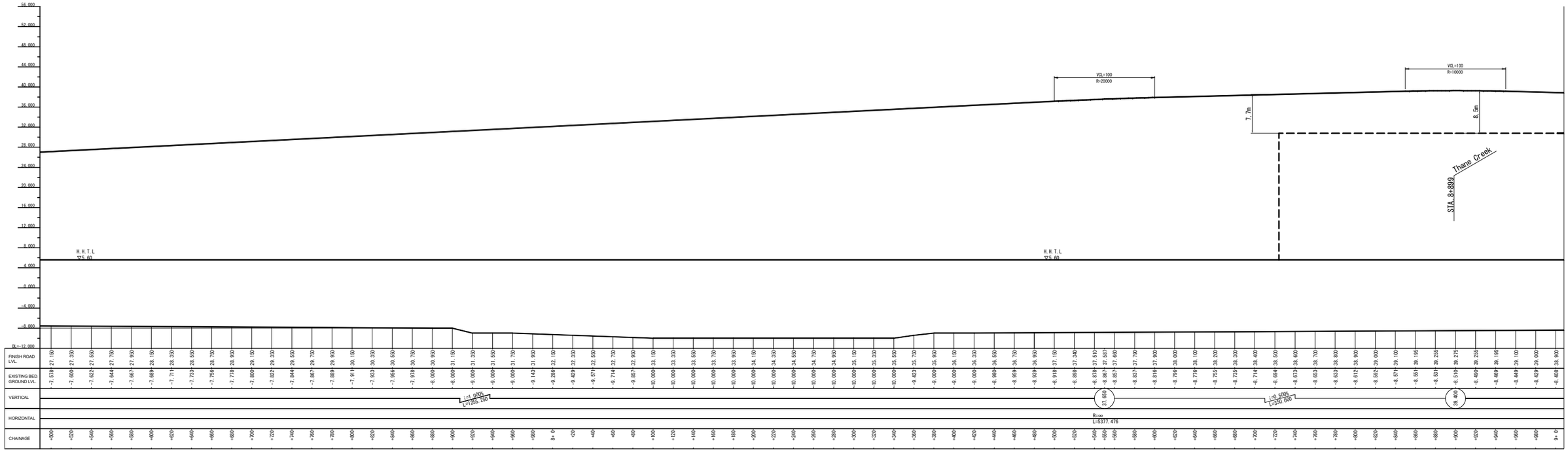

PROFILE

SCALE H=1:2000 V=400 @ A1

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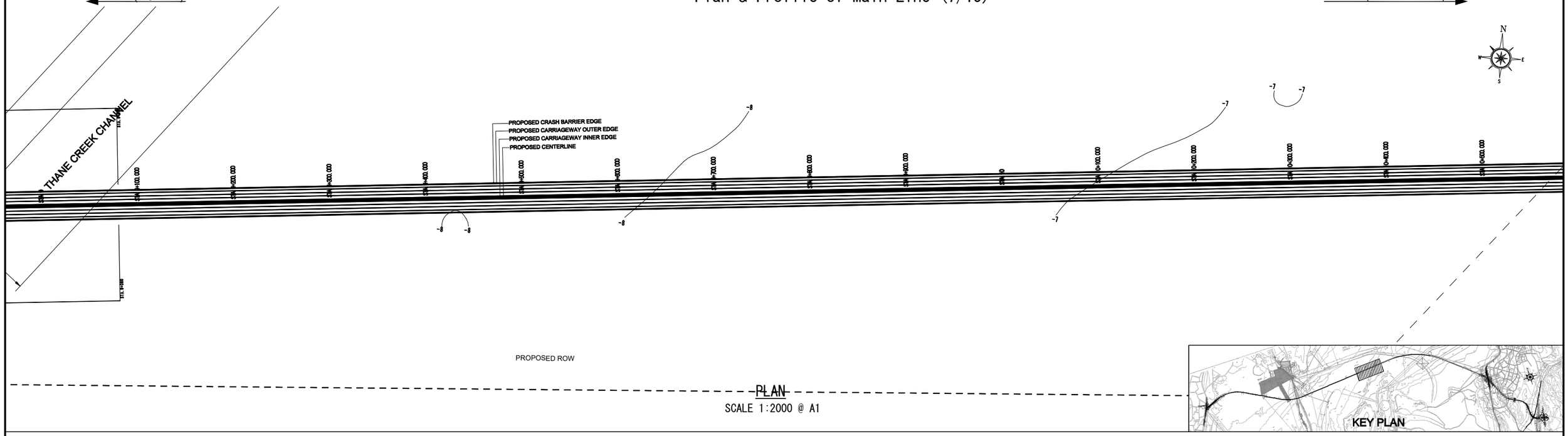
Drawing Title: Plan & Profile of Main Line (6/15) FROM CH 7+500 TO CH 9+000

Drawing Status:

Drawing No.: H-006

Rev.:

Plan & Profile of Main Line (7/15)



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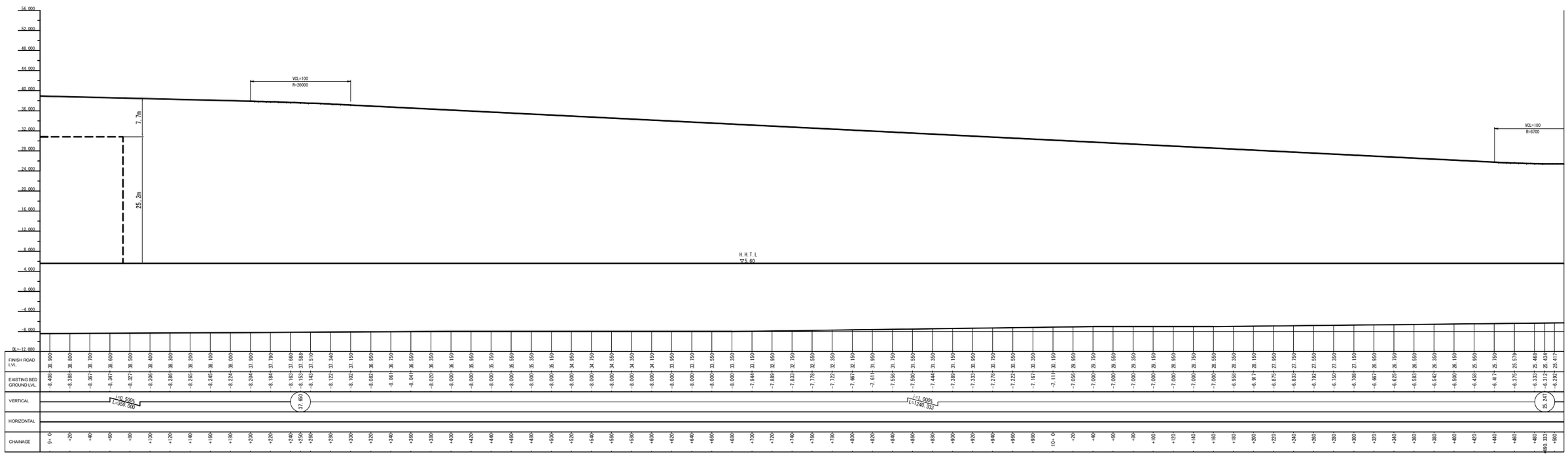

PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

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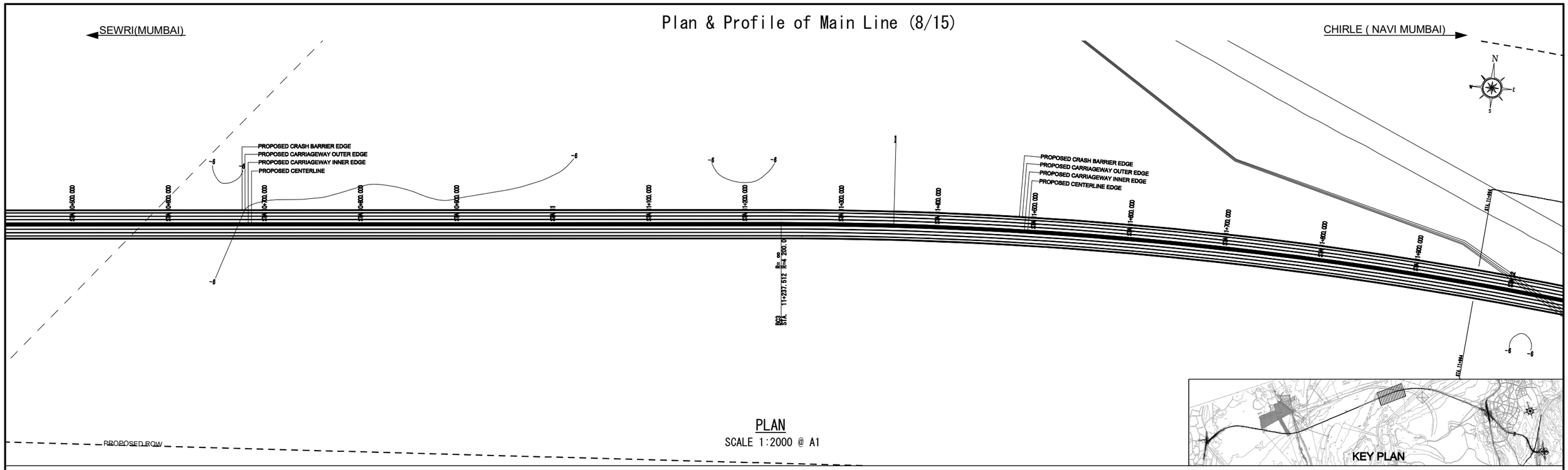
Drawing Title: Plan & Profile of Main Line (7/15) FROM CH 9+000 TO CH 10+500

Drawing Status:

Drawing No.: H-007

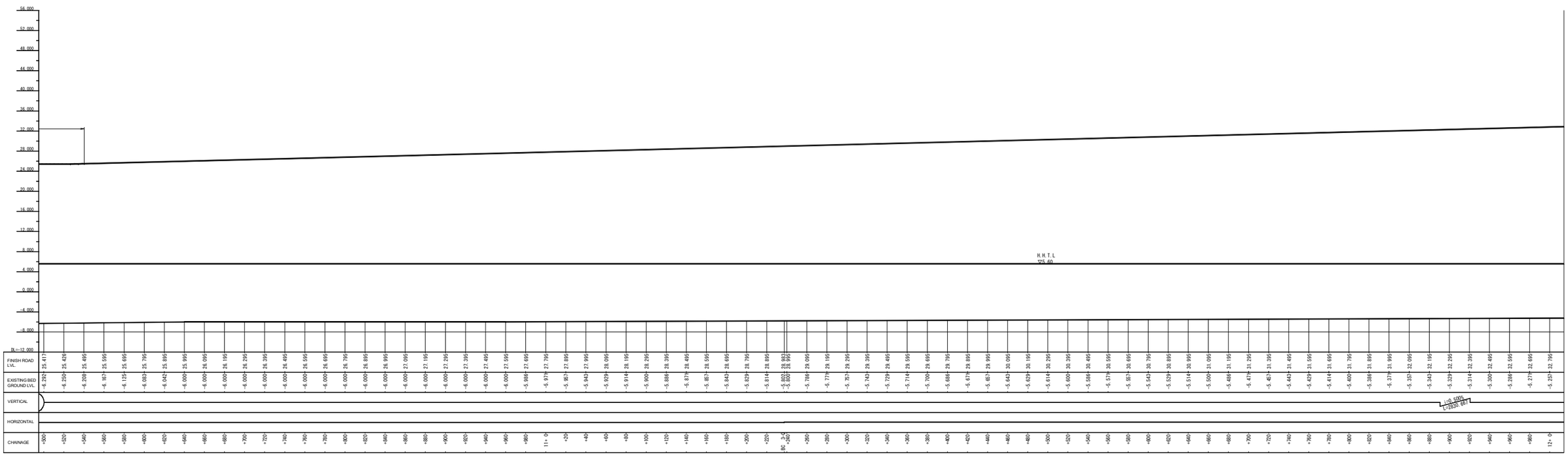
Rev.:

Plan & Profile of Main Line (8/15)



PLAN

SCALE 1:2000 @ A1



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

The Preparatory Survey on the Project for Construction of Mumbai Trans Harbour Link

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

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East Nippon Expressway Co., Ltd.
Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of Main Line (8/15)
FROM CH 10+500 TO CH 12+000

Drawing Status

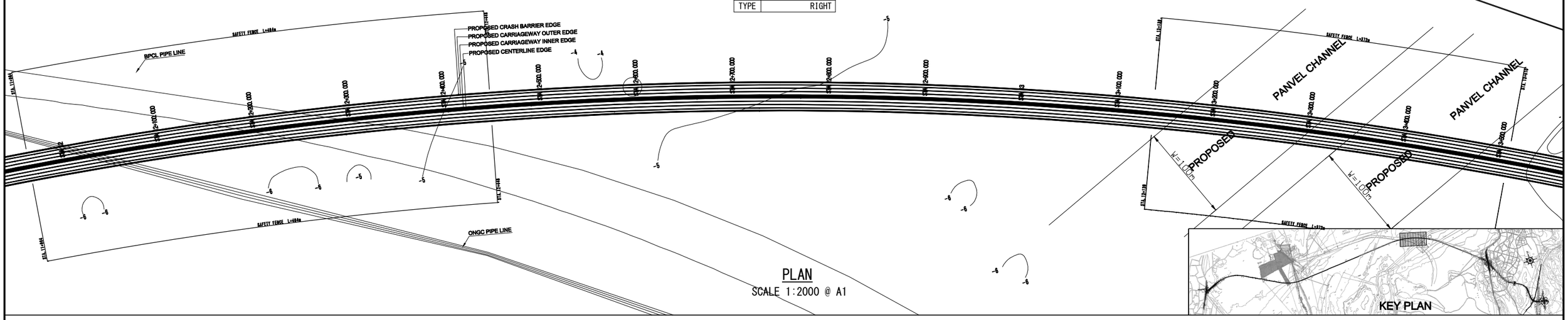
Drawing No. H-008

Rev.

Plan & Profile of Main Line (9/15)

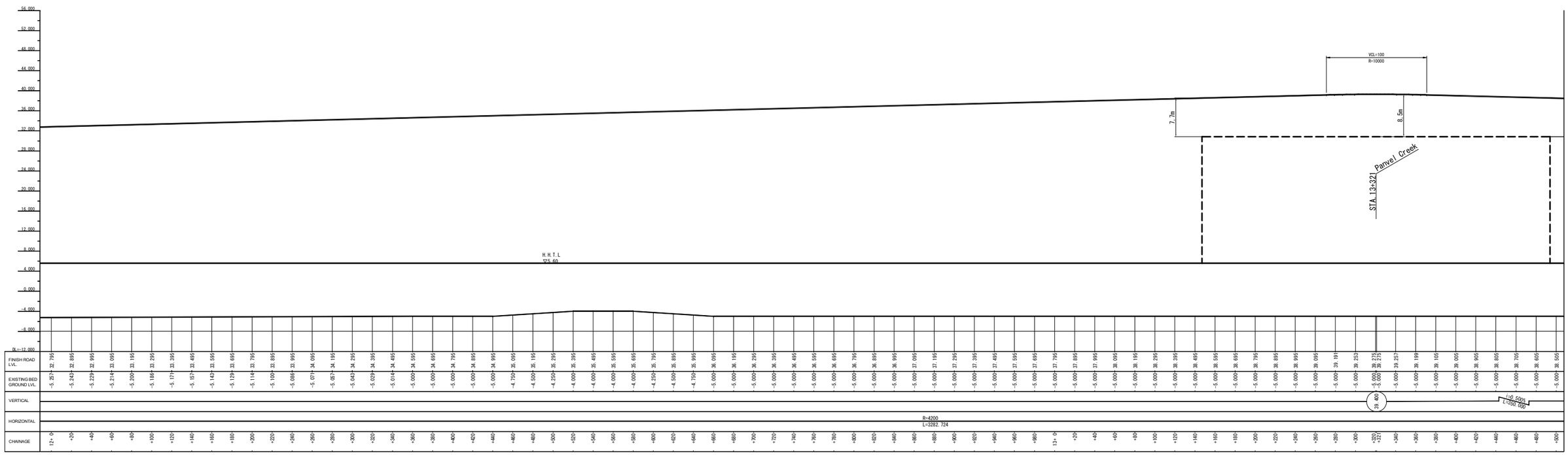
SEWRI(MUMBAI) ◄ ► CHIRLE (NAVI MUMBAI)

IP	IP-3
IA	44° 46′ 56.74″
R	4200.0000
L.CL	3282.7234
SL	342.4830
e	2.5%
TYPE	RIGHT



PLAN

SCALE 1:2000 @ A1



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

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Drawing Title: Plan & Profile of Main Line (9/15) FROM CH 12+000 TO CH 13+500

Drawing Status:

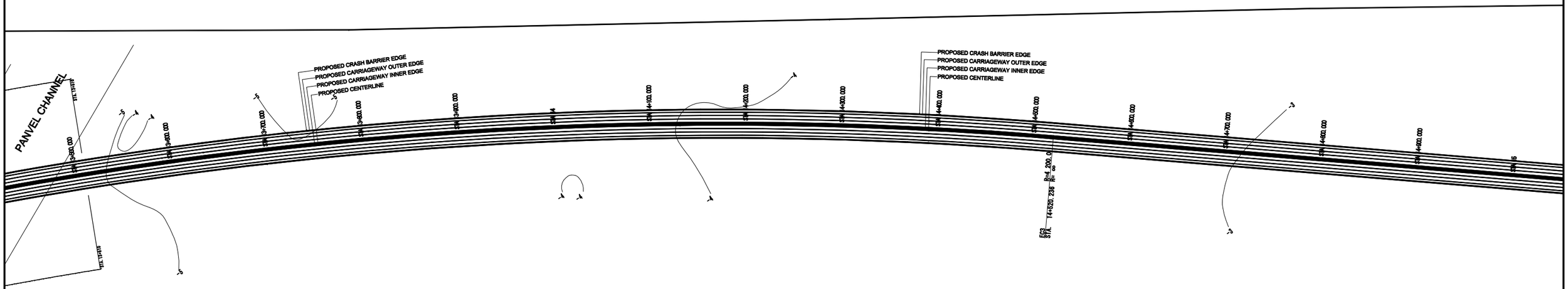
Drawing No.: H-009

Rev.:

SEWRI(MUMBAI)

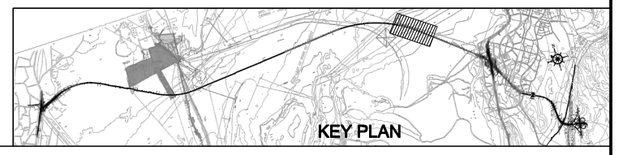
Plan & Profile of Main Line (10/15)

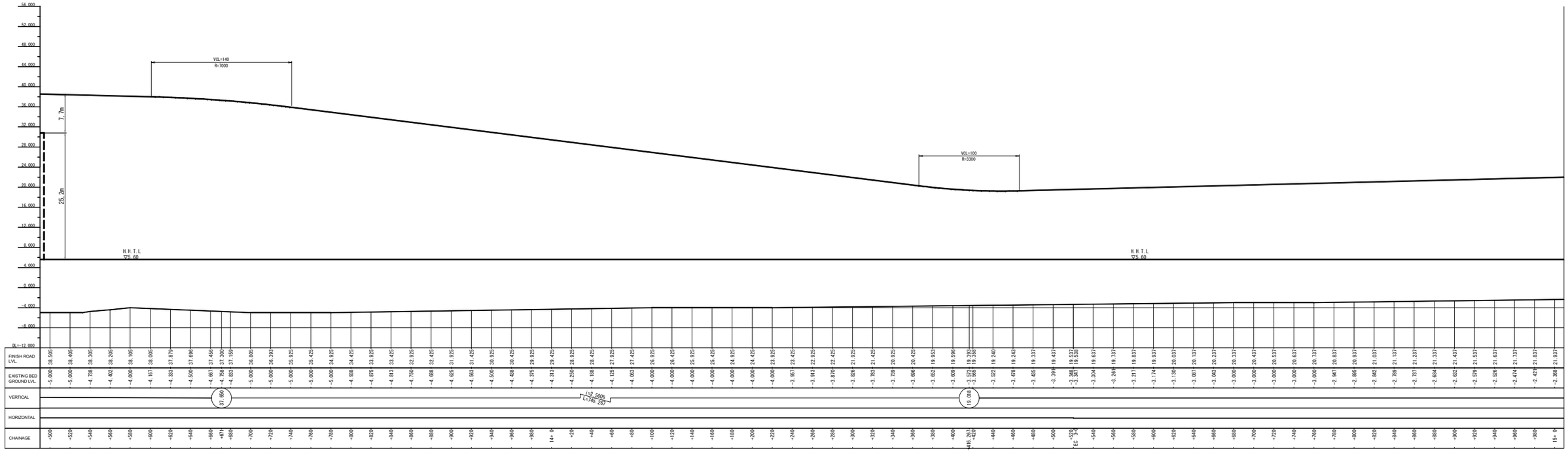
CHIRLE (NAVI MUMBAI)



PLAN

SCALE 1:2000 @ A1





PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA

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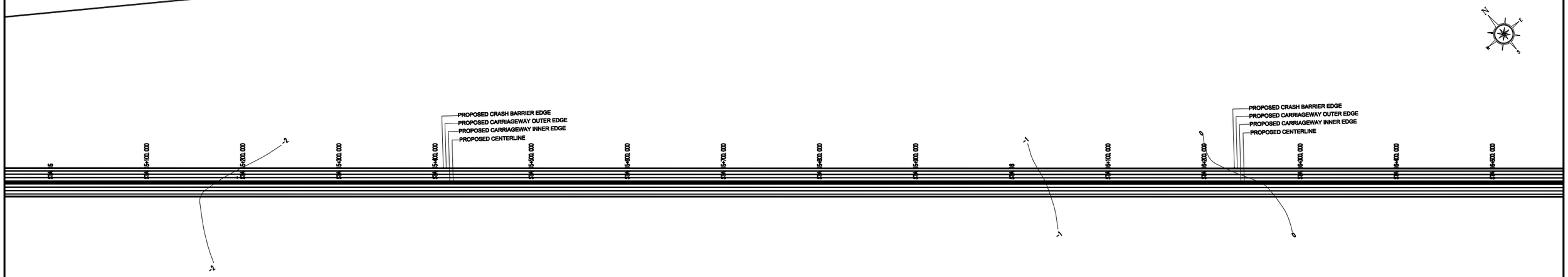
Drawing Title

Plan & Profile of Main Line (10/15)
FROM CH 13+500 TO CH 15+000

Drawing Status	Drawing No.	Rev.
	H-010	

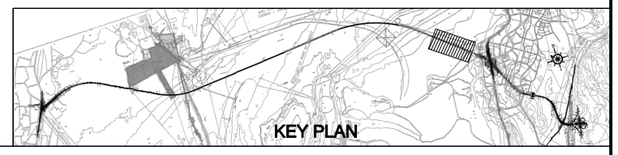
Plan & Profile of Main Line (11/15)

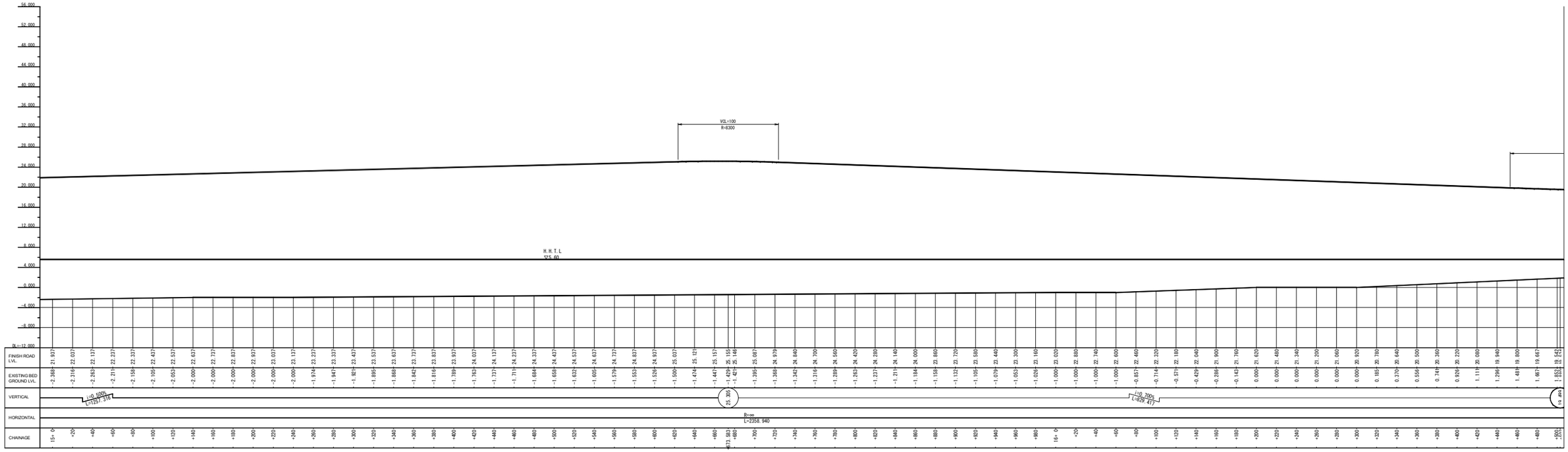
SEWRI(MUMBAI) ← → CHIRLE (NAVI MUMBAI)



PLAN

SCALE 1:2000 @ A1





PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

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Drawing Title: Plan & Profile of Main Line (11/15) FROM CH 15+000 TO CH 16+500

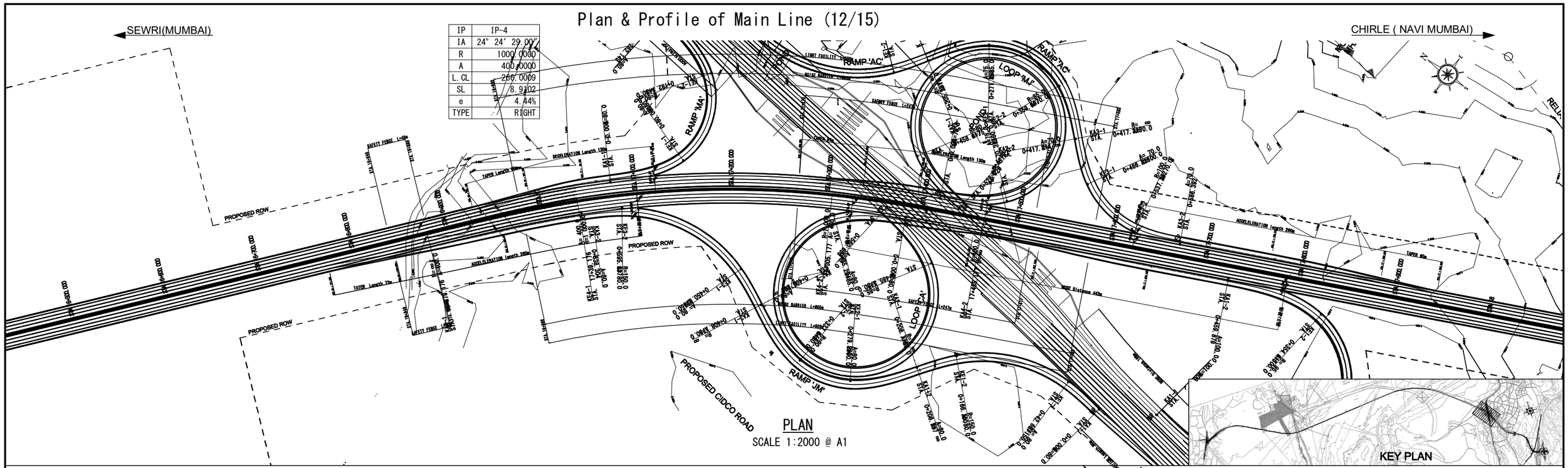
Drawing Status:

Drawing No.: H-011

Rev.:

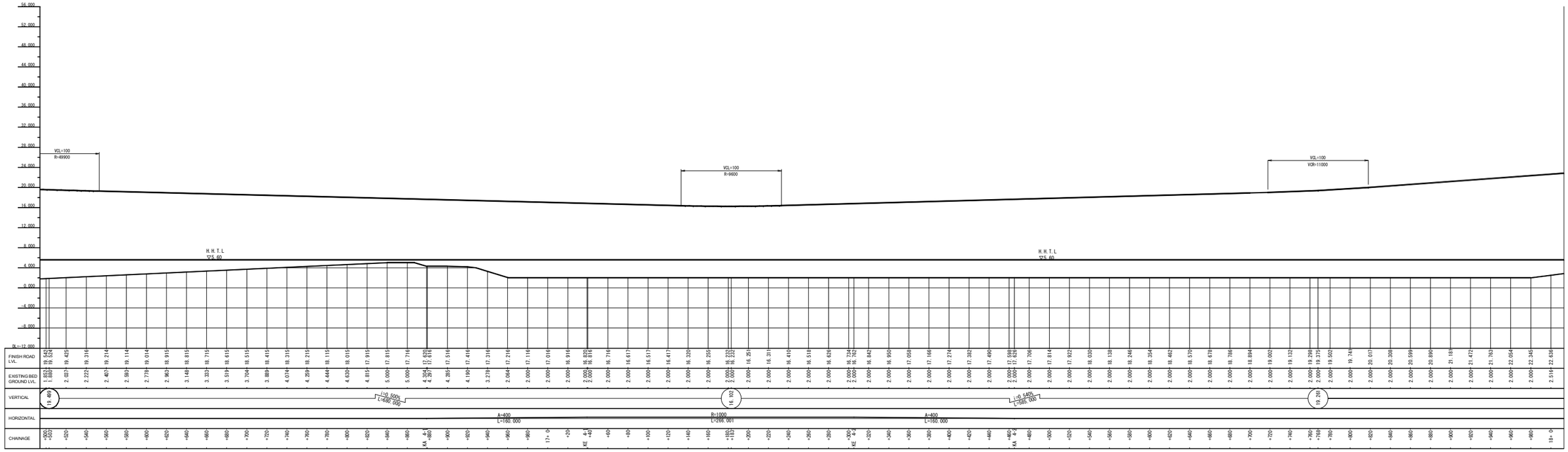
Plan & Profile of Main Line (12/15)

IP	IP-4
IA	24° 24′ 29.00″
R	1000.0000
A	400.00000
L.CL	266.0009
SL	8.9102
e	4.44%
TYPE	RIGHT



PLAN

SCALE 1:2000 @ A1



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA

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Drawing Title

Plan & Profile of Main Line (12/15)
FROM CH 16+500 TO CH 18+000

Drawing Status

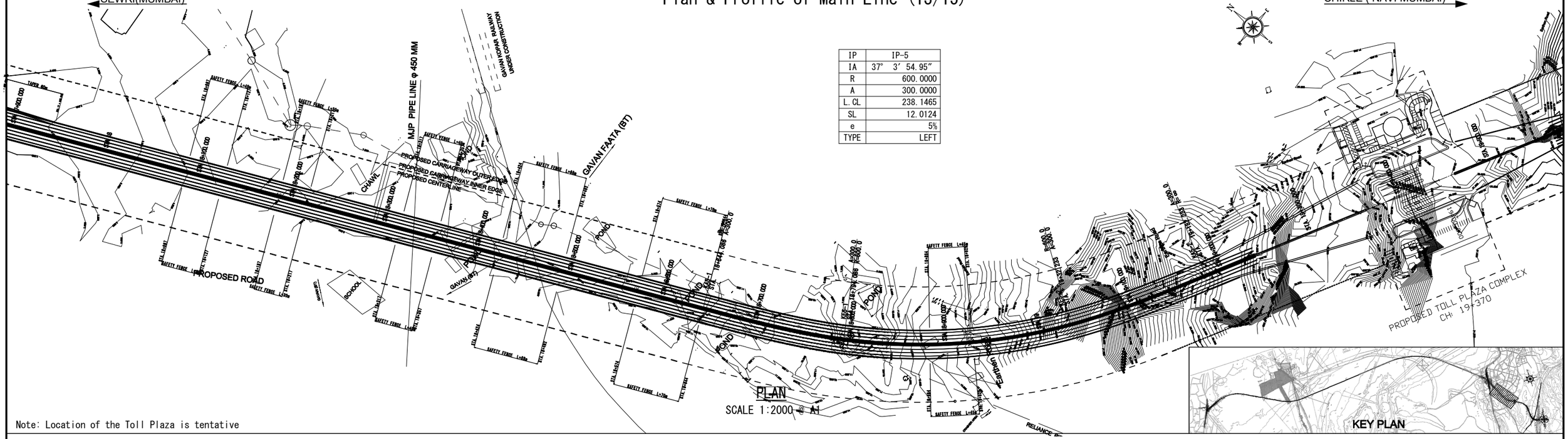
Drawing No. H-012

Rev.

Plan & Profile of Main Line (13/15)

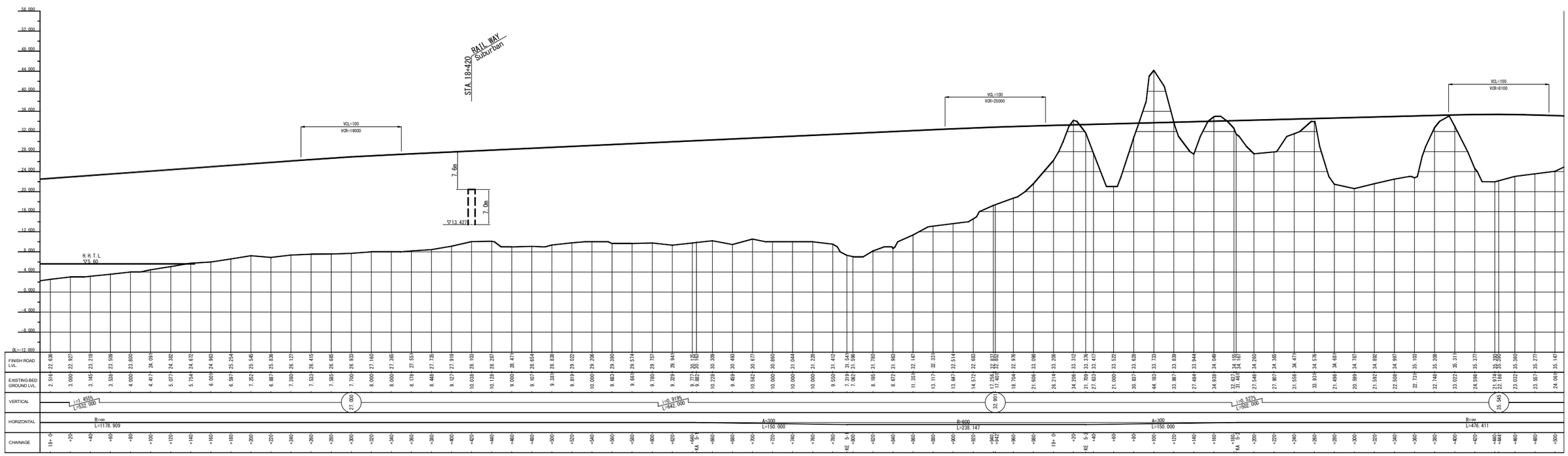
SEWRI(MUMBAI) ← → CHIRLE (NAVI MUMBAI)

IP	IP-5
IA	37° 3′ 54.95″
R	600.0000
A	300.0000
L.CL	238.1465
SL	12.0124
e	5%
TYPE	LEFT



PLAN
SCALE 1:2000 @ A1

Note: Location of the Toll Plaza is tentative



PROFILE
SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
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Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of Main Line (13/15)
FROM CH 18+000 TO CH 19+500

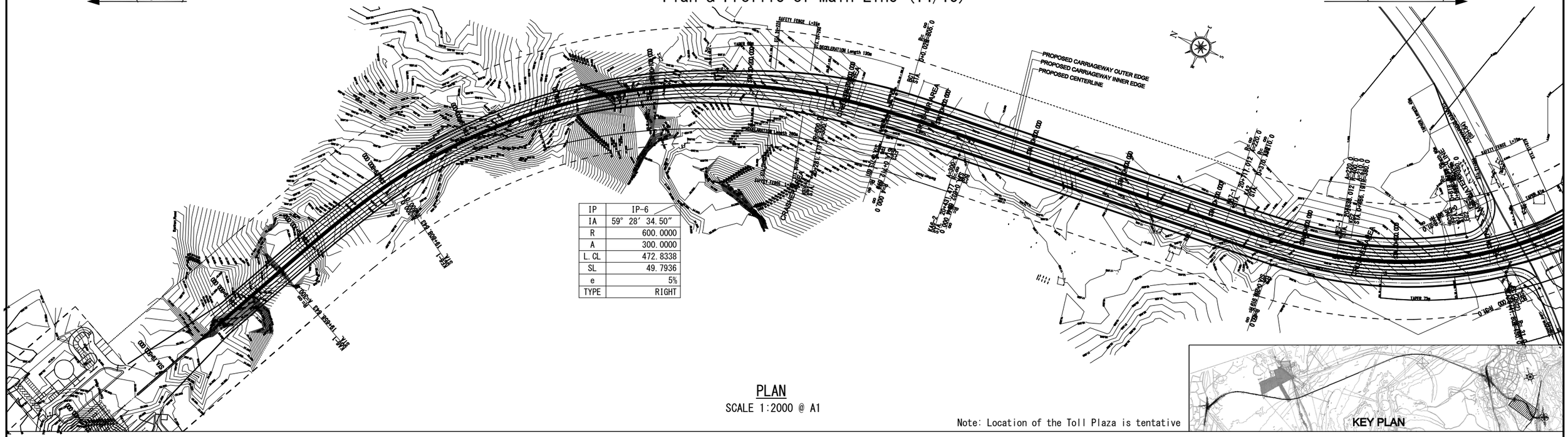
Drawing Status

Drawing No. H-013

Rev.

Plan & Profile of Main Line (14/15)

SEWRI(MUMBAI) ◄ ► CHIRLE (NAVI MUMBAI)

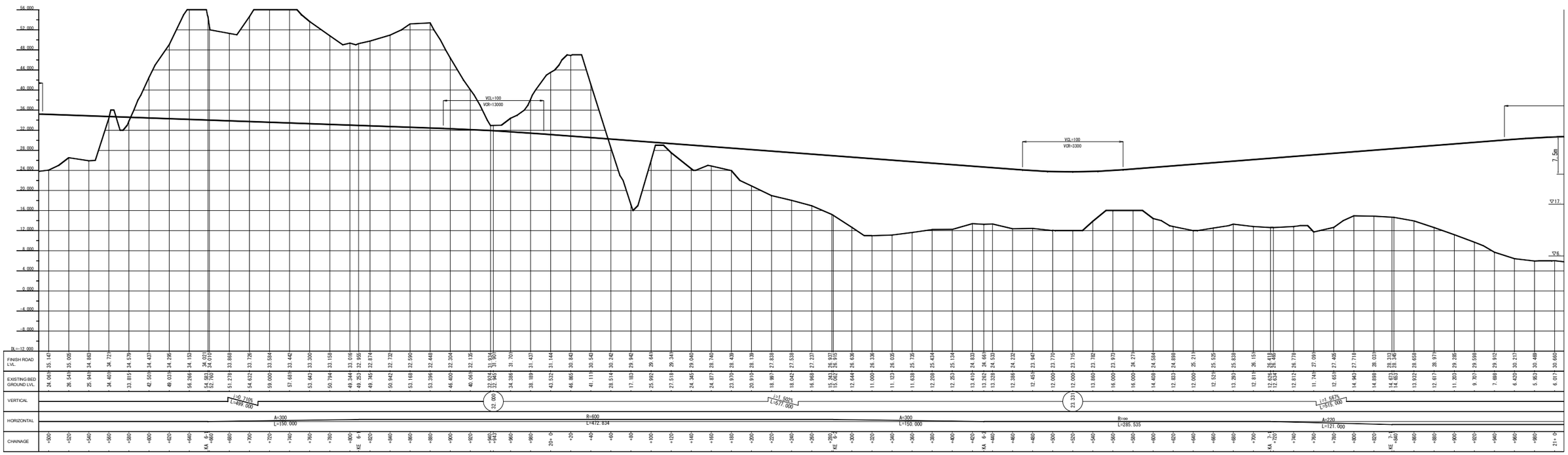


IP	IP-6
IA	59° 28′ 34.50″
R	600.0000
A	300.0000
L.CL	472.8338
SL	49.7936
e	5%
TYPE	RIGHT

PLAN

SCALE 1:2000 @ A1

Note: Location of the Toll Plaza is tentative



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

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Drawing Title: Plan & Profile of Main Line (14/15) FROM CH 19+500 TO CH 21+000

Drawing Status:

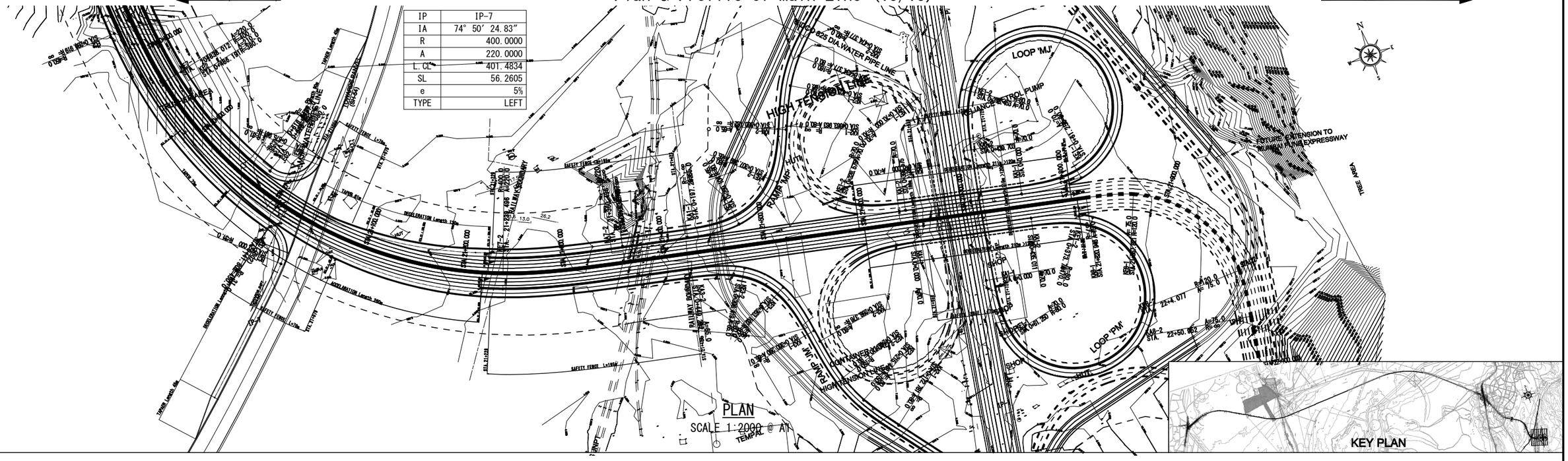
Drawing No.: H-014

Rev.:

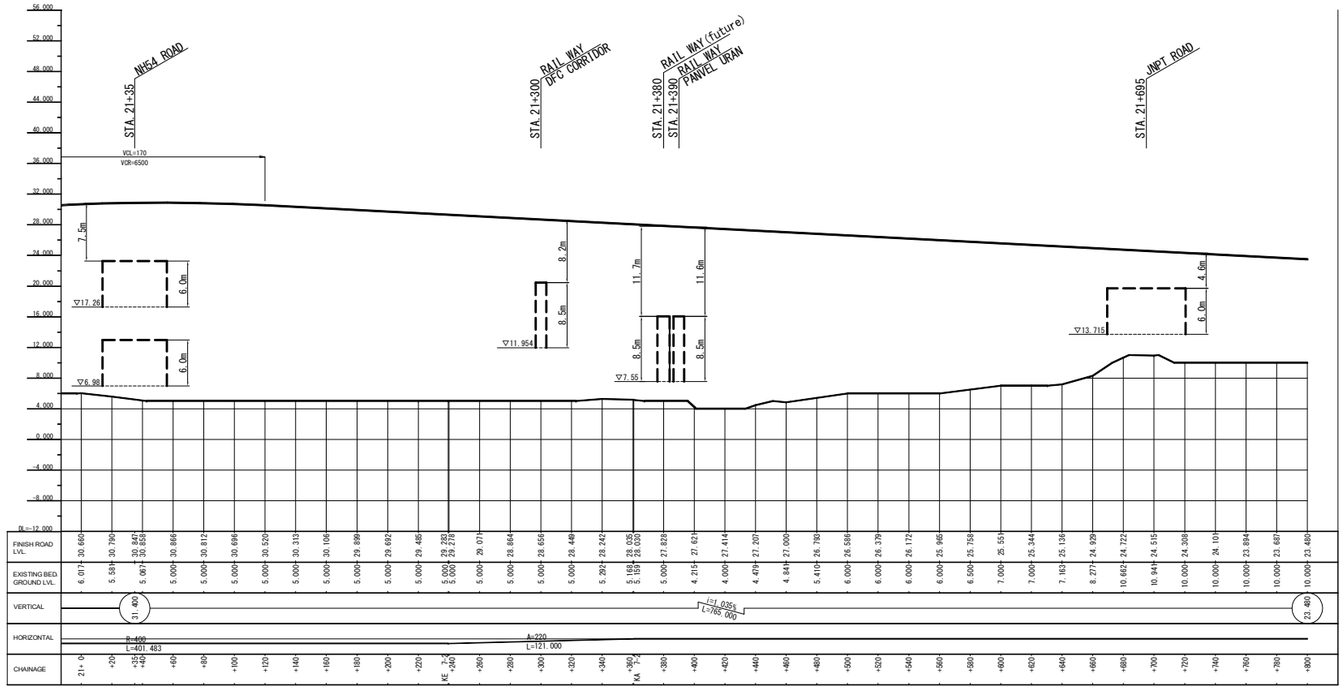
Plan & Profile of Main Line (15/15)

SEWRI(MUMBAI) ◄ ► CHIRLE (NAVI MUMBAI)

IP	IP-7
IA	74° 50′ 24.83″
R	400.0000
A	220.0000
L. CL	401.4834
SL	56.2605
e	5%
TYPE	LEFT



PLAN
SCALE 1:2000 @ A1



PROFILE
SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

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Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of Main Line (15/15)
FROM CH 21+000 TO CH 21+800

Drawing Status

Drawing No. H-015

Rev.

Sewri Interchange

RAMP NAME	DISCRIPTION
RAMP -A	FROM EASTERN FREEWAY SOUTH (COLABA SIDE) TO MTHL
RAMP-B	FROM MTHL TO EASTERN FREEWAY NORTH (WADALA SIDE)
RAMP-C1	FROM MTHL TO EASTERN FREEWAY SOUTH (COLABA SIDE)
RAMP-C2	FROM MTHL TO MESSANT ROAD (NORTH/SOUTH)
RAMP-E	FROM EASTERN FREEWAY NORTH (WADALA SIDE) TO MTHL
RAMP-F	FROM MESSANT ROAD (NORTH/ SOUTH) TO MTHL
MTHL RAMP	MTHL TO / FROM Sewri Worli connector

PROPOSED LANDSCAPING

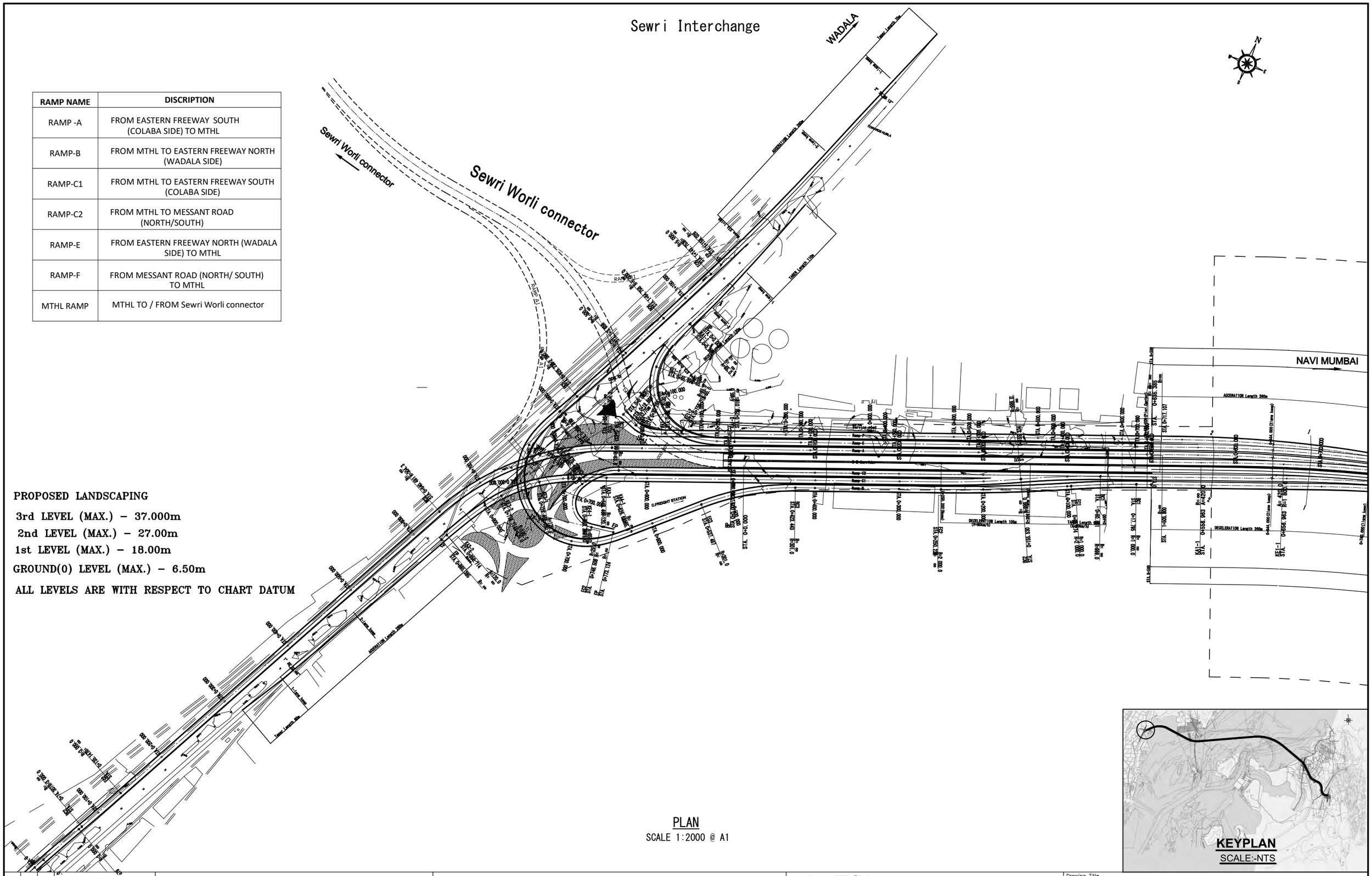
3rd LEVEL (MAX.) – 37.000m

2nd LEVEL (MAX.) – 27.00m

1st LEVEL (MAX.) – 18.00m

GROUND(0) LEVEL (MAX.) – 6.50m

ALL LEVELS ARE WITH RESPECT TO CHART DATUM



PLAN

SCALE 1:2000 @ A1

Mark	Date	By	Rev.

MMRDA

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

The Preparatory Survey on the Project for Construction of Mumbai Trans Harbour Link

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Drawing Title: Sewri Interchange

Drawing Status:

Drawing No.: H-016

Rev.:

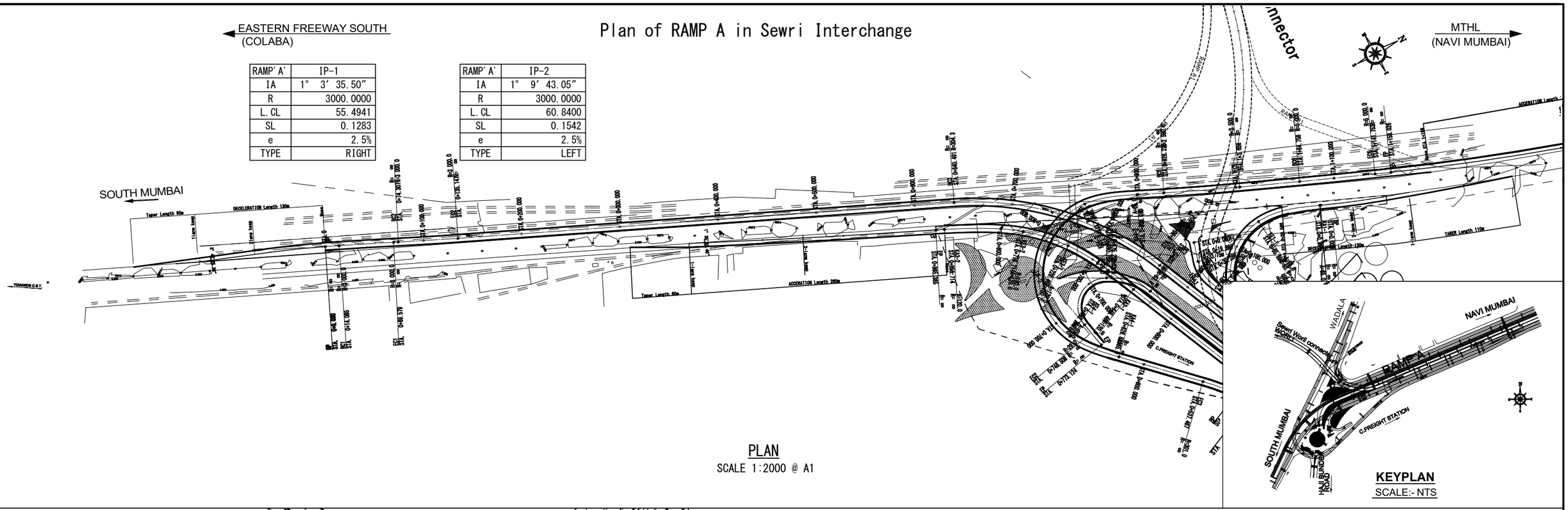
Plan of RAMP A in Sewri Interchange

EASTERN FREEWAY SOUTH (COLABA)

MTHL (NAVI MUMBAI)

RAMP'A'	IP-1
IA	1° 3′ 35.50″
R	3000.0000
L.CL	55.4941
SL	0.1283
e	2.5%
TYPE	RIGHT

RAMP'A'	IP-2
IA	1° 9′ 43.05″
R	3000.0000
L.CL	60.8400
SL	0.1542
e	2.5%
TYPE	LEFT



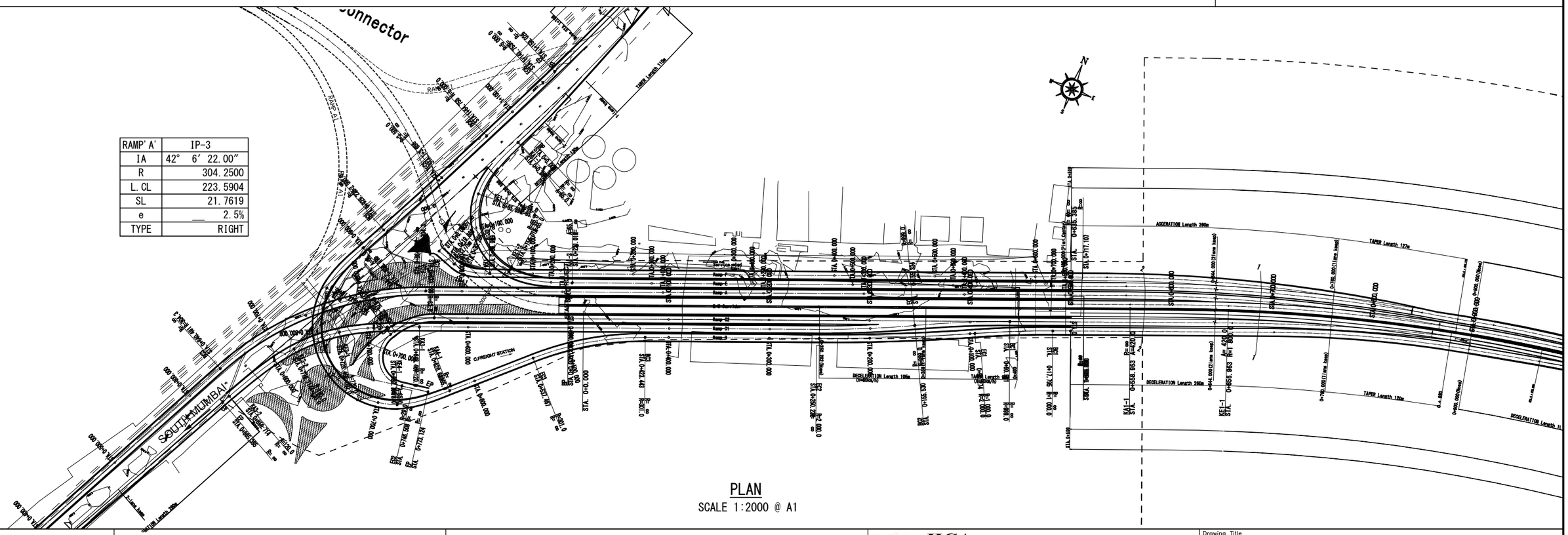
PLAN

SCALE 1:2000 @ A1

KEYPLAN

SCALE:- NTS

RAMP'A'	IP-3
IA	42° 6′ 22.00″
R	304.2500
L.CL	223.5904
SL	21.7619
e	2.5%
TYPE	RIGHT



PLAN

SCALE 1:2000 @ A1

Mark	Date	By	Rev.

MMRDA

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

The Preparatory Survey on the Project for Construction of Mumbai Trans Harbour Link

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Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

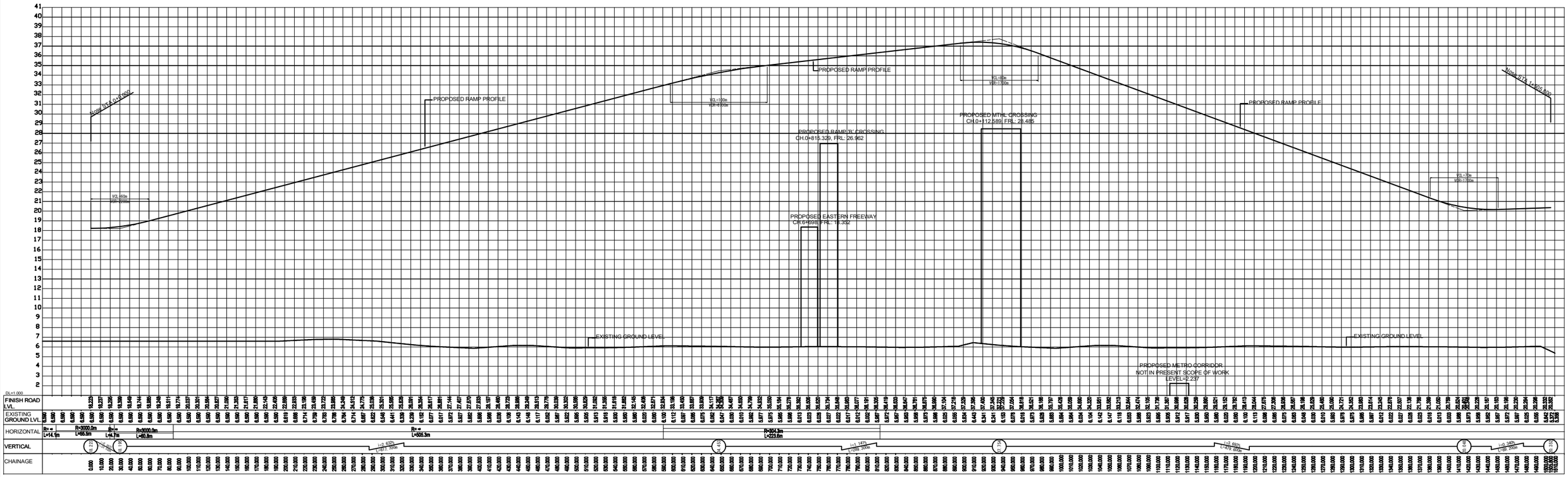
Drawing Title: Plan of RAMP A in Sewri Interchange FROM CH:0+000 TO CH:1+505.800

Drawing Status:

Drawing No.: H-017

Rev.:

Profile of RAMP A in Sewri Interchange



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

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JAPAN INTERNATIONAL COOPERATION AGENCY

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East Nippon Expressway Co., Ltd.
Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

Drawing Title

Profile of RAMP A in Sewri Interchange
FROM CH:0+000 TO CH:1+505.800

Drawing Status	Drawing No.	Rev.
	H-018	

Plan of RAMP B in Sewri Interchange

MTHL
(NAVI MUMBAI)

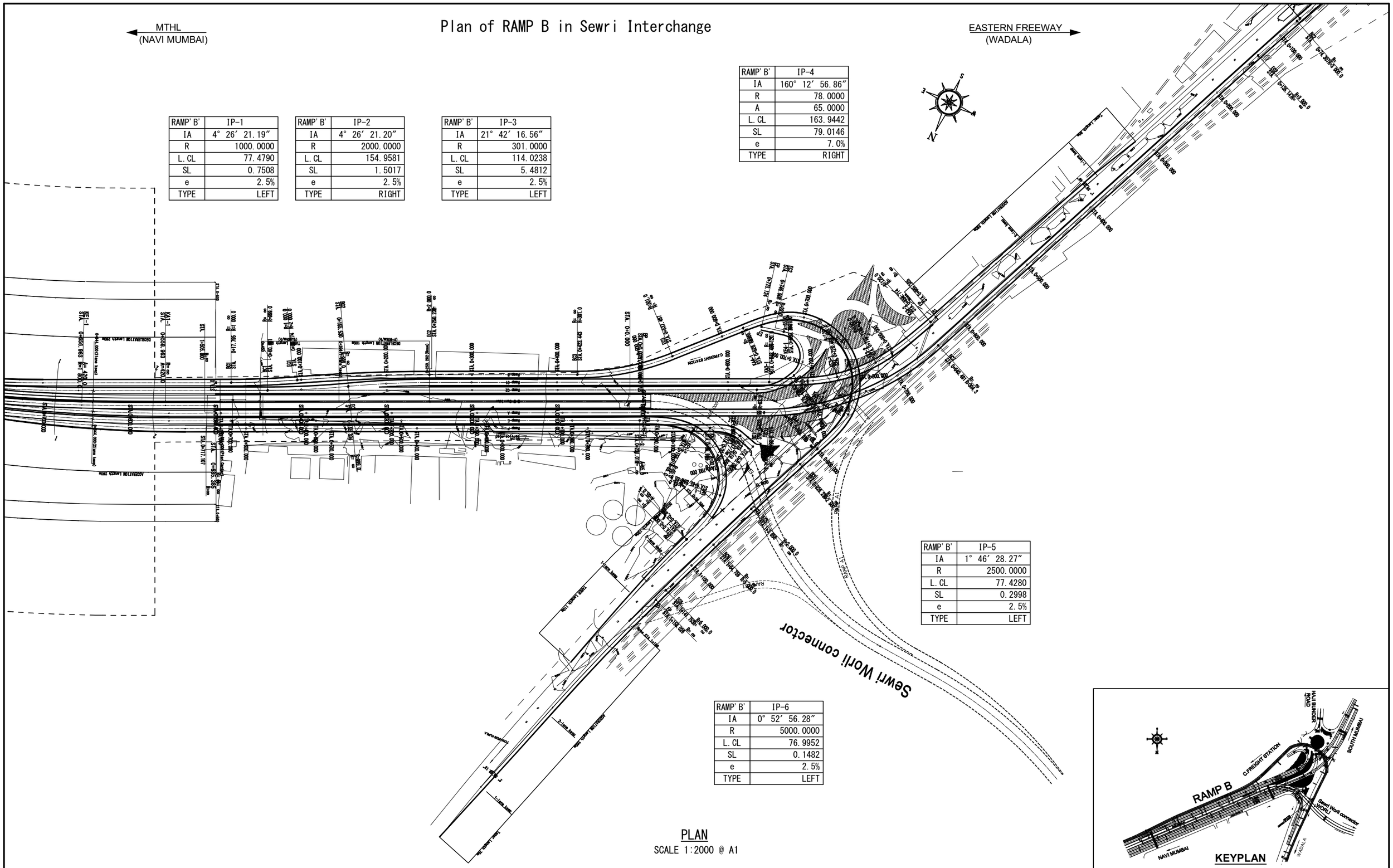
EASTERN FREEWAY
(WADALA)

RAMP' B'	IP-1
IA	4° 26′ 21.19″
R	1000.0000
L.CL	77.4790
SL	0.7508
e	2.5%
TYPE	LEFT

RAMP' B'	IP-2
IA	4° 26′ 21.20″
R	2000.0000
L.CL	154.9581
SL	1.5017
e	2.5%
TYPE	RIGHT

RAMP' B'	IP-3
IA	21° 42′ 16.56″
R	301.0000
L.CL	114.0238
SL	5.4812
e	2.5%
TYPE	LEFT

RAMP' B'	IP-4
IA	160° 12′ 56.86″
R	78.0000
A	65.0000
L.CL	163.9442
SL	79.0146
e	7.0%
TYPE	RIGHT



RAMP' B'	IP-5
IA	1° 46′ 28.27″
R	2500.0000
L.CL	77.4280
SL	0.2998
e	2.5%
TYPE	LEFT

RAMP' B'	IP-6
IA	0° 52′ 56.28″
R	5000.0000
L.CL	76.9952
SL	0.1482
e	2.5%
TYPE	LEFT

PLAN
SCALE 1:2000 @ A1

KEYPLAN
SCALE:- NTS

Mark	Date	By	Rev.

MMRDA
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Nippon Engineering Consultants Co., Ltd.

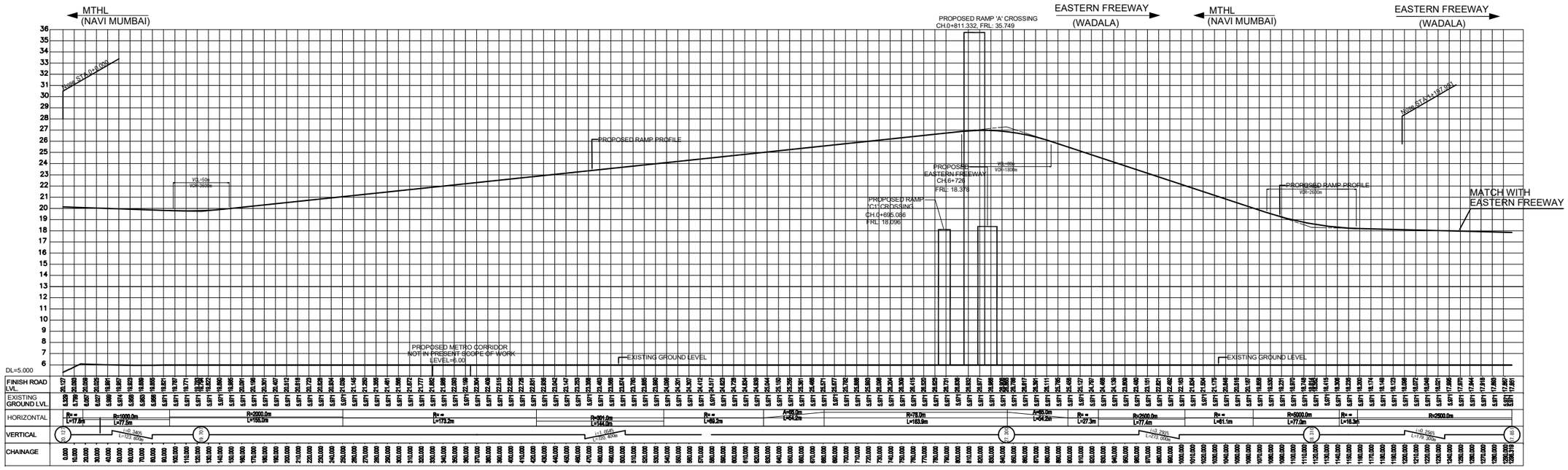
Drawing Title
Plan of RAMP B in Sewri Interchange
FROM CH:0+000 TO CH:1+198.0

Drawing Status

Drawing No. H-019

Rev.

Profile of RAMP B in Sewri Interchange



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

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Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

Drawing Title
Profile of RAMP B in Sewri Interchange
FROM CH:0+000 TO CH:1+198.0

Drawing Status

Drawing No. H-020

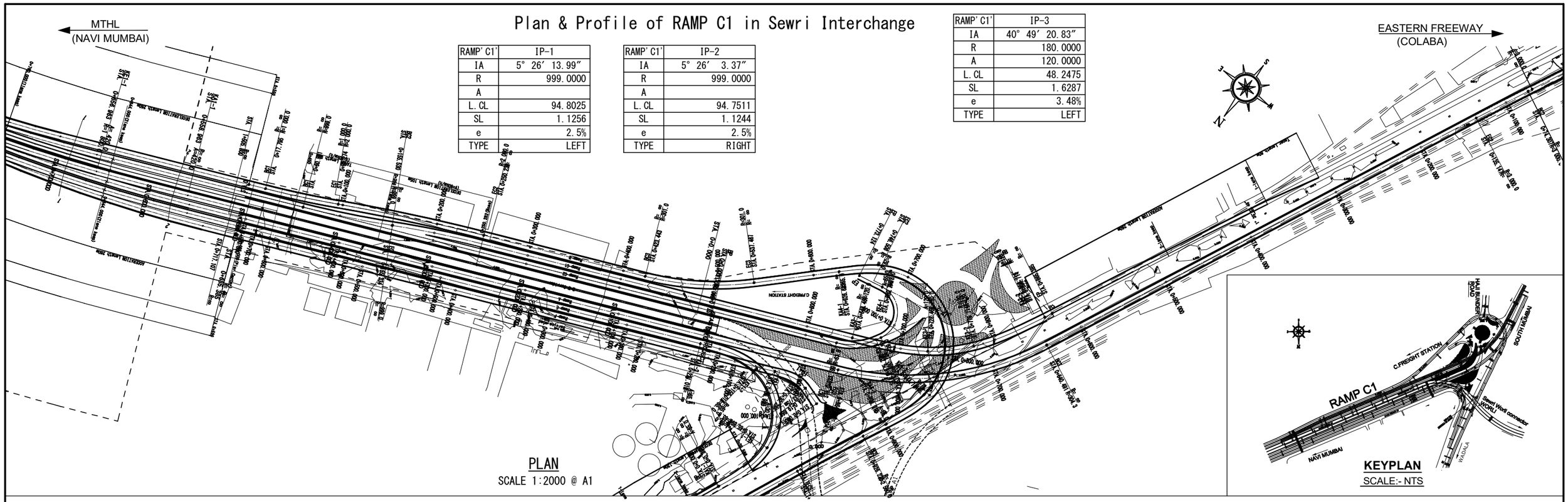
Rev.

Plan & Profile of RAMP C1 in Sewri Interchange

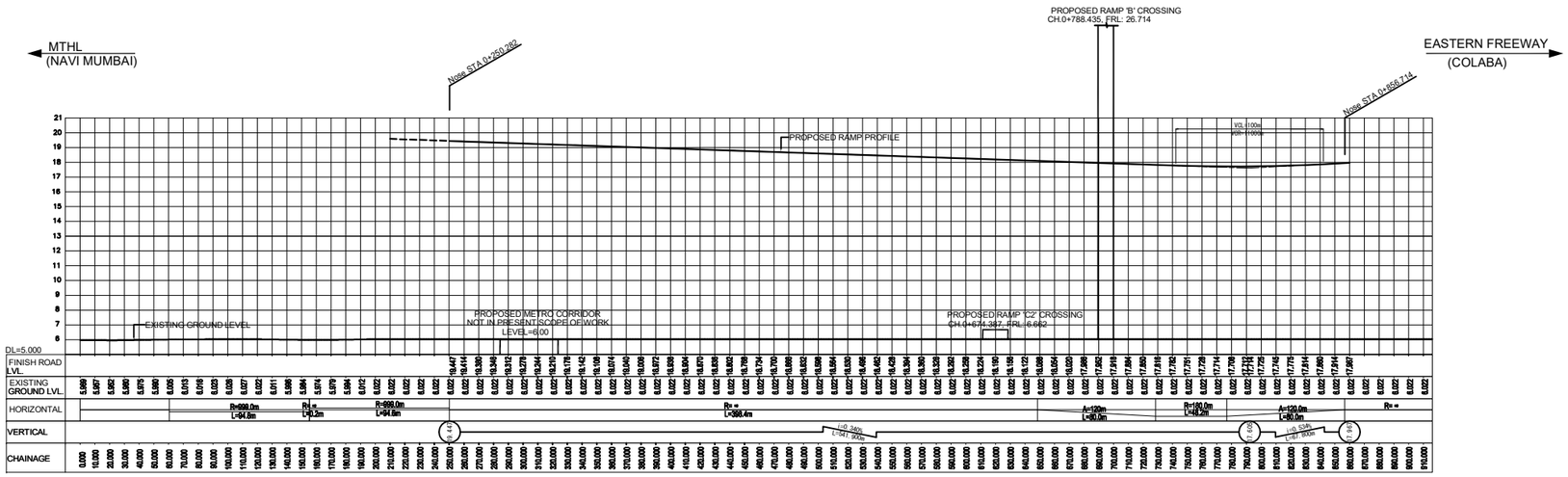
RAMP'C1'	IP-1
IA	5° 26′ 13.99″
R	999.0000
A	
L.CL	94.8025
SL	1.1256
e	2.5%
TYPE	LEFT

RAMP'C1'	IP-2
IA	5° 26′ 3.37″
R	999.0000
A	
L.CL	94.7511
SL	1.1244
e	2.5%
TYPE	RIGHT

RAMP'C1'	IP-3
IA	40° 49′ 20.83″
R	180.0000
A	120.0000
L.CL	48.2475
SL	1.6287
e	3.48%
TYPE	LEFT



PLAN
SCALE 1:2000 @ A1



PROFILE
SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

The Preparatory Survey on the Project for Construction of Mumbai Trans Harbour Link

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

Oriental Consultants Global Co., Ltd.
East Nippon Expressway Co., Ltd.
Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of RAMP C1 in Sewri Interchange
FROM CH:0+250.3 TO CH:0+856.7

Drawing Status

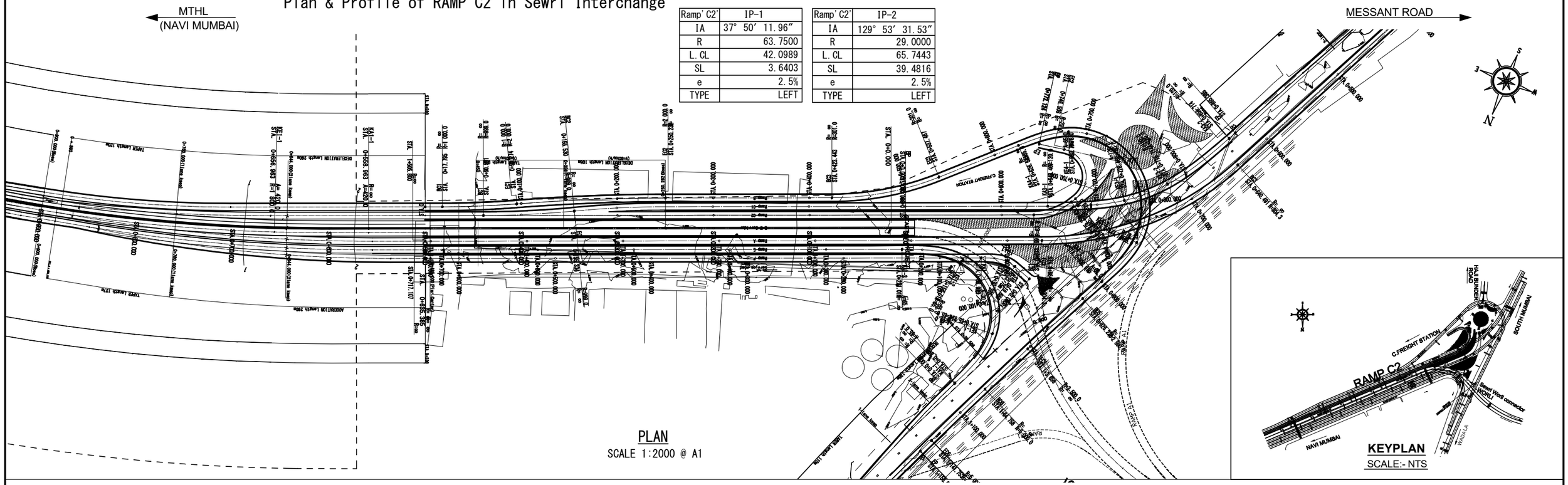
Drawing No. H-021

Rev.

Plan & Profile of RAMP C2 in Sewri Interchange

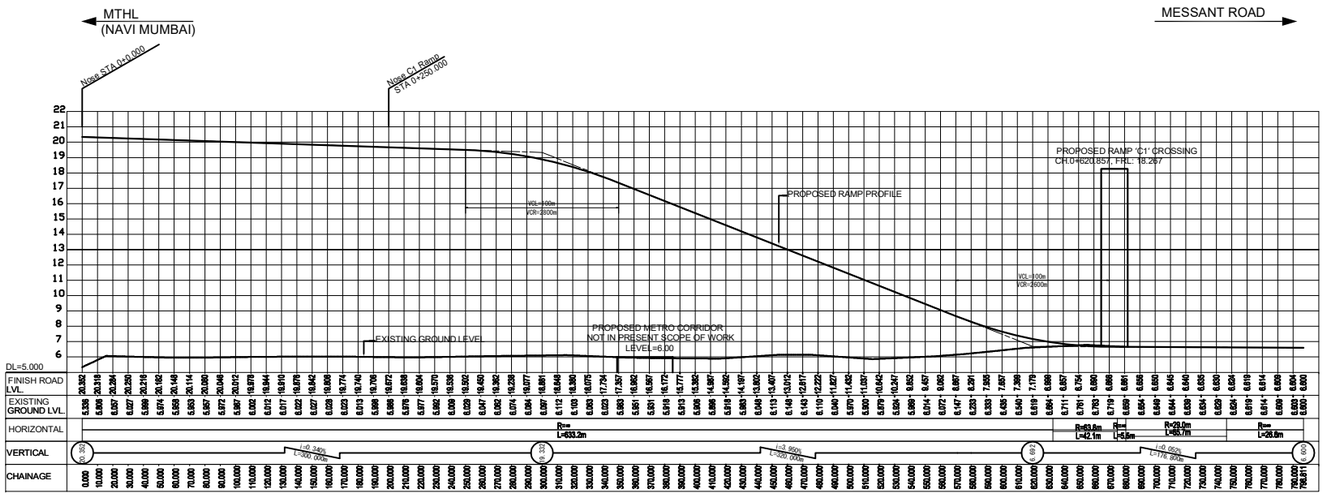
Ramp'C2'	IP-1
IA	37° 50′ 11.96″
R	63.7500
L. CL	42.0989
SL	3.6403
e	2.5%
TYPE	LEFT

Ramp'C2'	IP-2
IA	129° 53′ 31.53″
R	29.0000
L. CL	65.7443
SL	39.4816
e	2.5%
TYPE	LEFT



PLAN
SCALE 1:2000 @ A1

KEYPLAN
SCALE:- NTS



PROFILE
SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

The Preparatory Survey on the Project for Construction of Mumbai Trans Harbour Link

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

Oriental Consultants Global Co., Ltd.
East Nippon Expressway Co., Ltd.
Nippon Koei Co., Ltd.
Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of RAMP C2 in Sewri Interchange
FROM CH:0+000 TO CH:0+773.1

Drawing Status

Drawing No. H-022

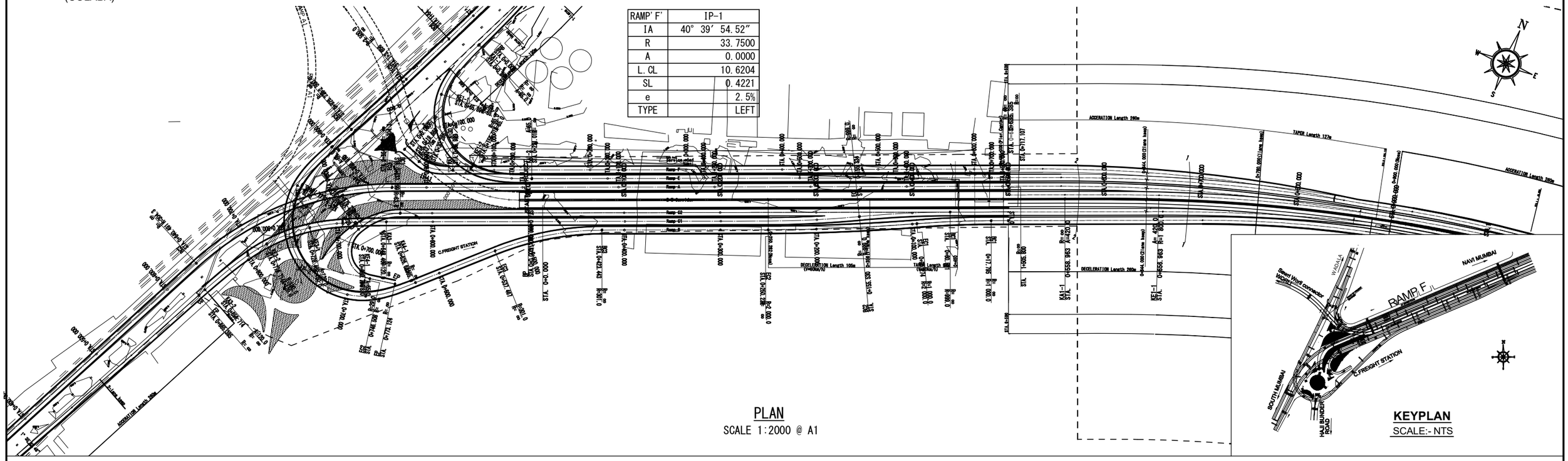
Rev.

Plan & Profile of RAMP F in Sewri Interchange

EASTERN FREEWAY (COLABA)

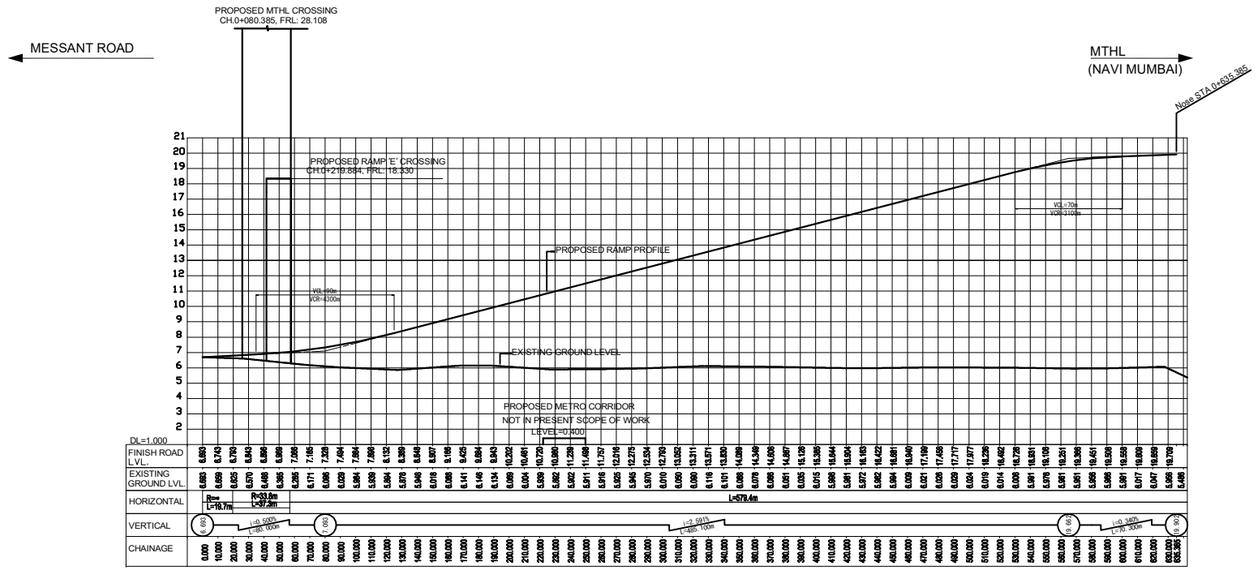
MTHL (NAVI MUMBAI)

RAMP'F'	IP-1
IA	40° 39′ 54.52″
R	33.7500
A	0.0000
L.CL	10.6204
SL	0.4221
e	2.5%
TYPE	LEFT



PLAN

SCALE 1:2000 @ A1



PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
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Nippon Engineering Consultants Co., Ltd.

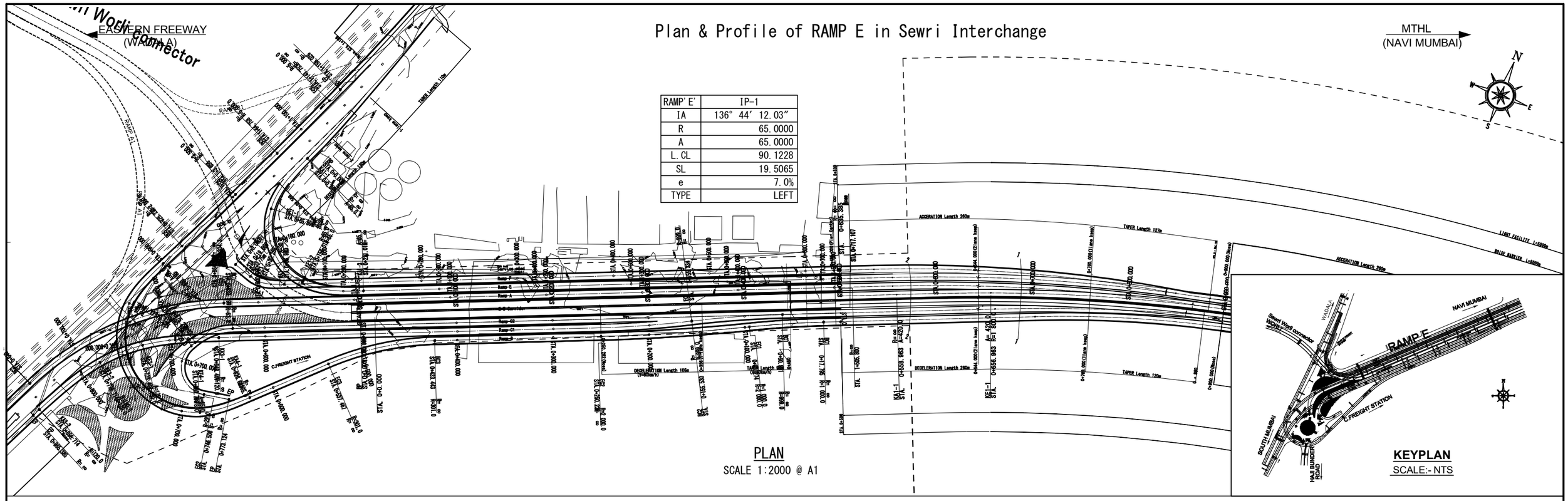
Drawing Title: Plan & Profile of RAMP F in Sewri Interchange FROM CH:0+000 TO CH:0+635.4

Drawing Status:

Drawing No.: H-023

Rev.:

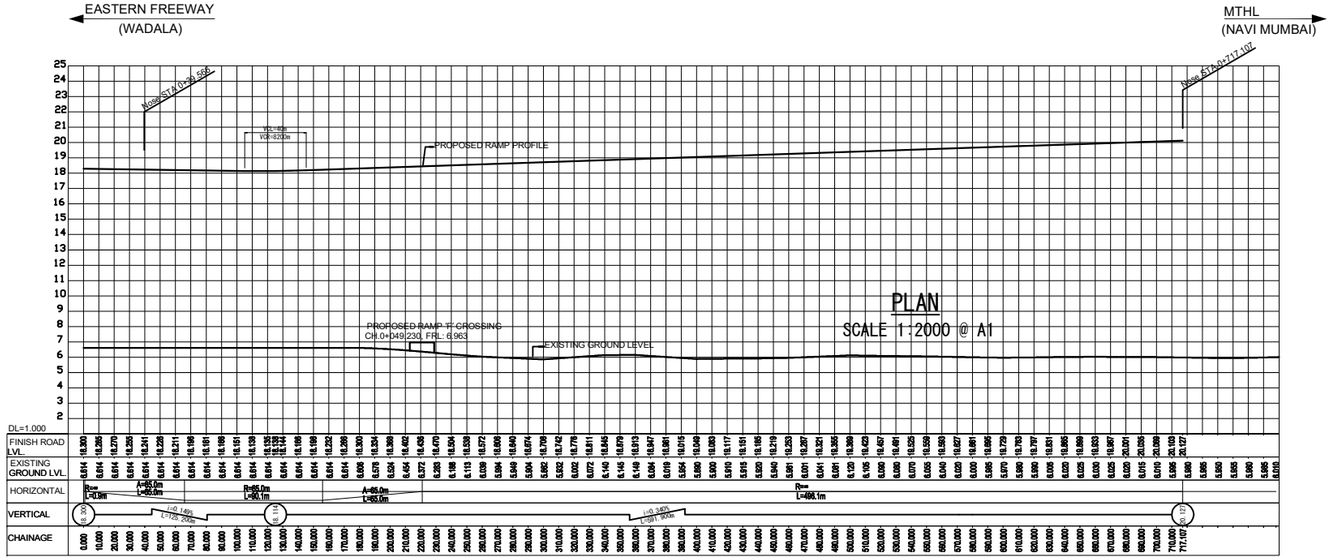
Plan & Profile of RAMP E in Sewri Interchange



RAMP'E'	IP-1
IA	136° 44′ 12.03″
R	65.0000
A	65.0000
L.CL	90.1228
SL	19.5065
e	7.0%
TYPE	LEFT

PLAN

SCALE 1:2000 @ A1



PLAN

SCALE 1:2000 @ A1

PROFILE

SCALE H=1:2000 V=400 @ A1

Mark	Date	By	Rev.

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

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Nippon Engineering Consultants Co., Ltd.

Drawing Title
Plan & Profile of RAMP E in Sewri Interchange
FROM CH:0+39.6 TO CH:0+717.1

Drawing Status

Drawing No. H-024

Rev.