

Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.165+092 to Ch.171+855 (North Bound) and from Ch.166+895 to Ch.173+638 (South Bound) , excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

North Bound Ch.-153+100 To Ch.-153+500 and South Bound Ch.-154+850 To Ch.-155+542

	In
ALTINOK	20

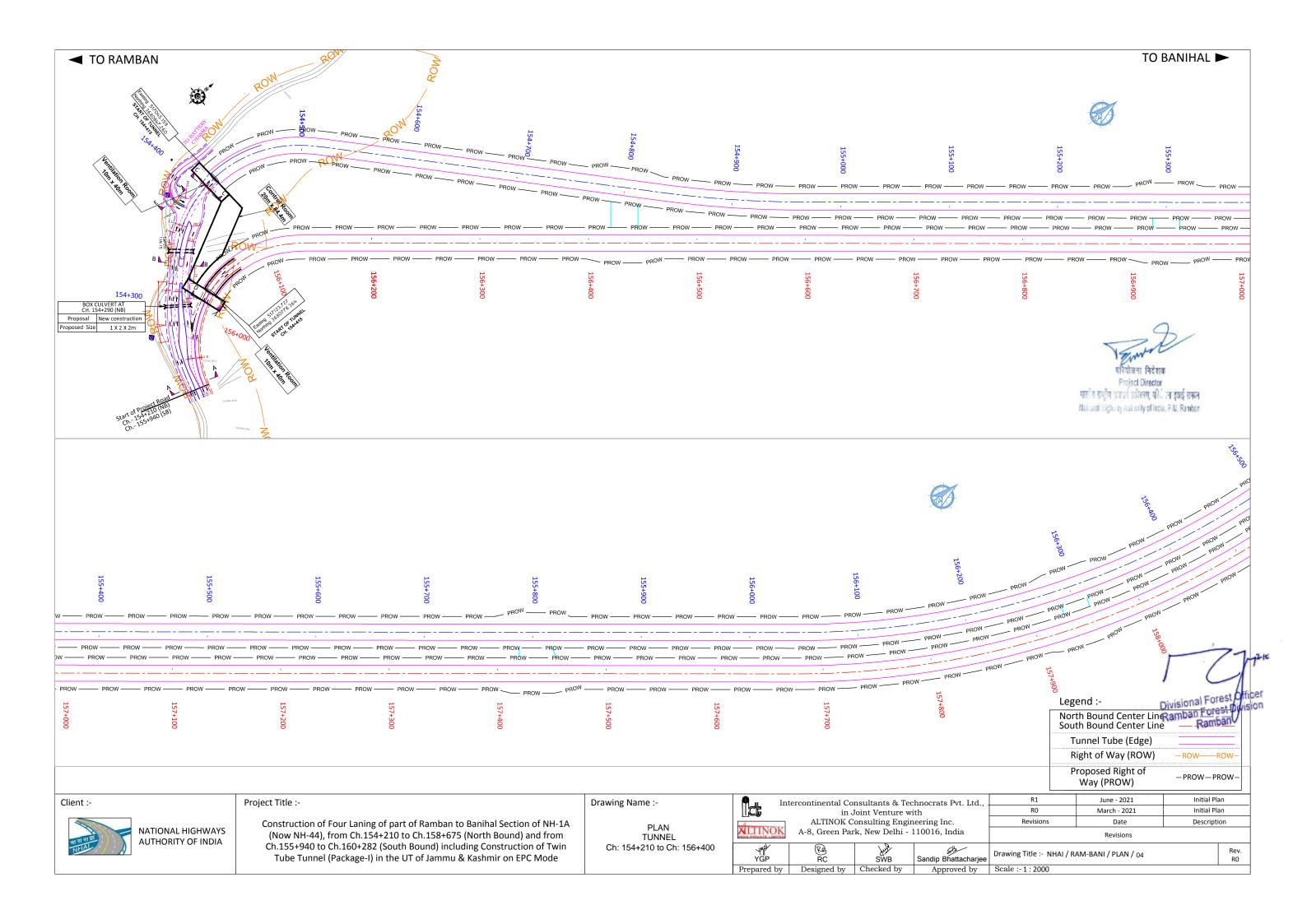
Prepared by

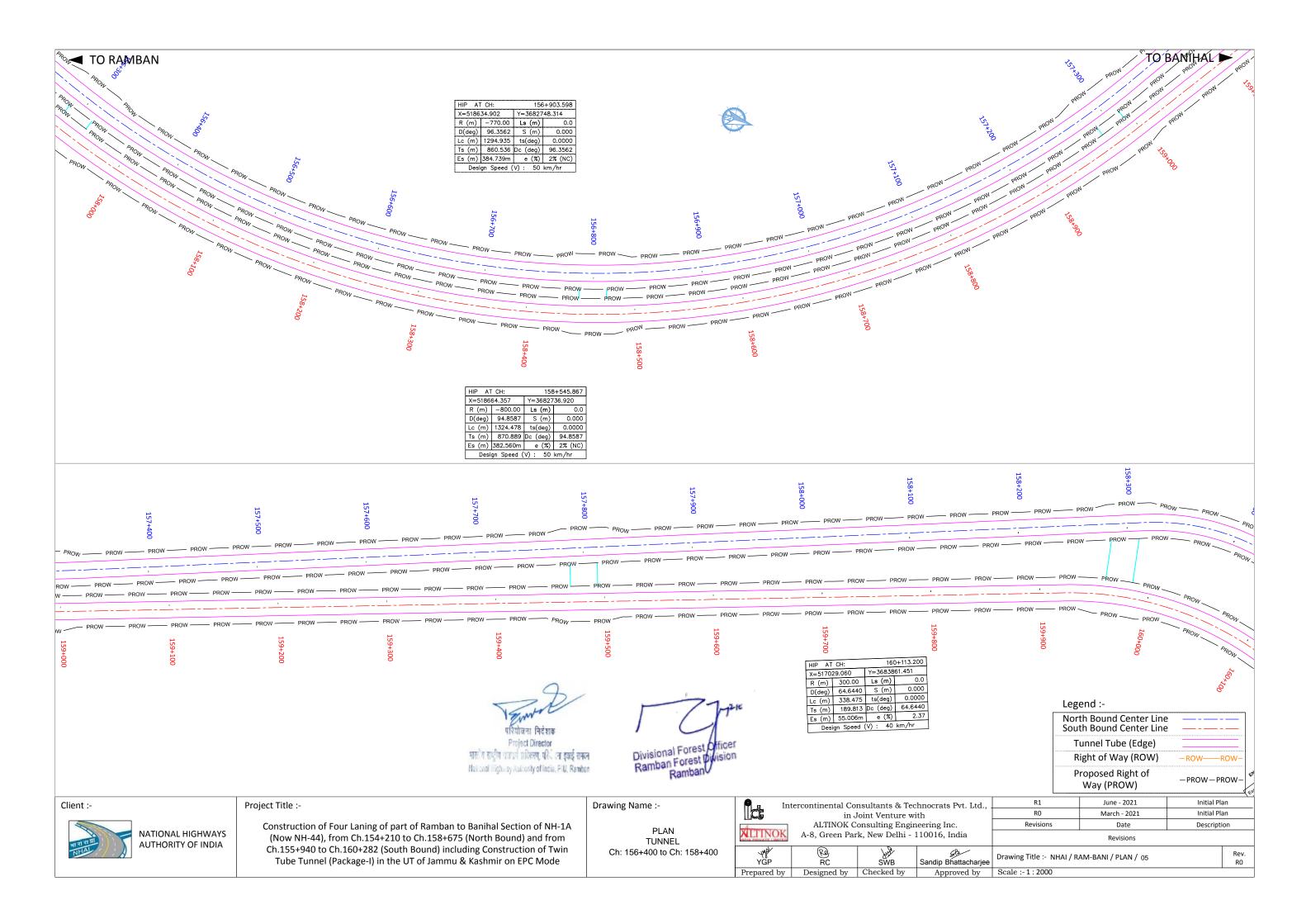
in Joint Venture with ALTINOK Consulting Engineering Inc. A-8, Green Park, New Delhi - 110016, India

Note:- 1. All Difficults are in meter, unless otherwise specified.			
R1	June - 2021	Plan	
R0	March - 2021	Plan	
Revisions	Date	Description	
Revisions			

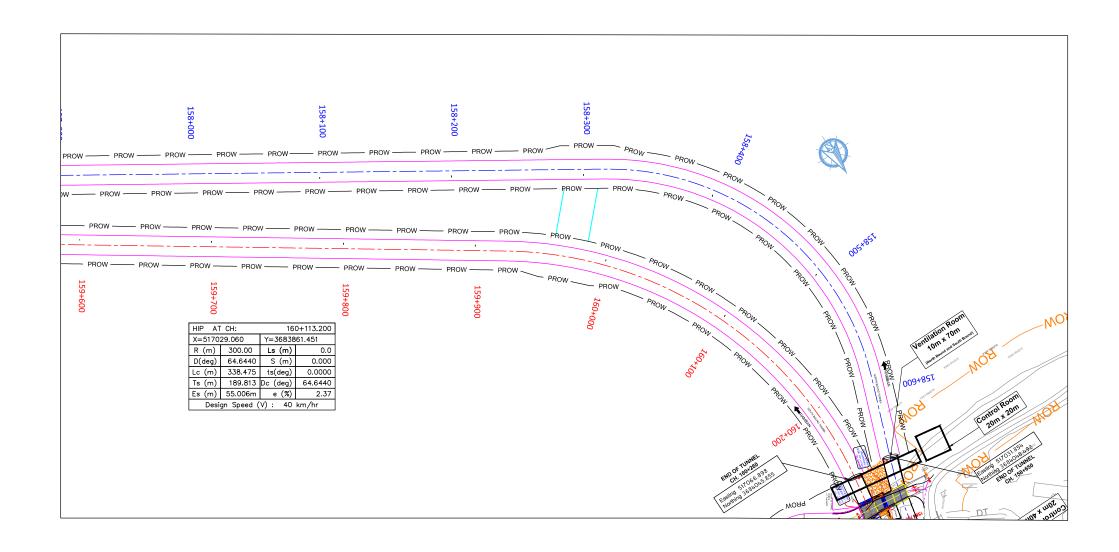
Drawing Title :- NHAI / RAM - BANI / PLAN / 03 Bhattacharjee Designed by Checked by Approved by Scale :- 1 : 1500 (on A2 Sheet)







▼ TO RAMBAN



परियोजना निर्देशक Project Director भारते व सादीच जावार्ग प्रतिकल्प, परित्तान इकाई सम्बन National Highney Authority of India, P.U., Ramber



#### Legend :-

Legena .	
North Bound Center Line South Bound Center Line	
Tunnel Tube (Edge)	
Right of Way (ROW)	-ROWROW-
Proposed Right of Way (PROW)	-PROW-PROW-

Client :-



Project Title :-

Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.154+210 to Ch.158+675 (North Bound) and from Ch.155+940 to Ch.160+282 (South Bound) including Construction of Twin Tube Tunnel (Package-I) in the UT of Jammu & Kashmir on EPC Mode

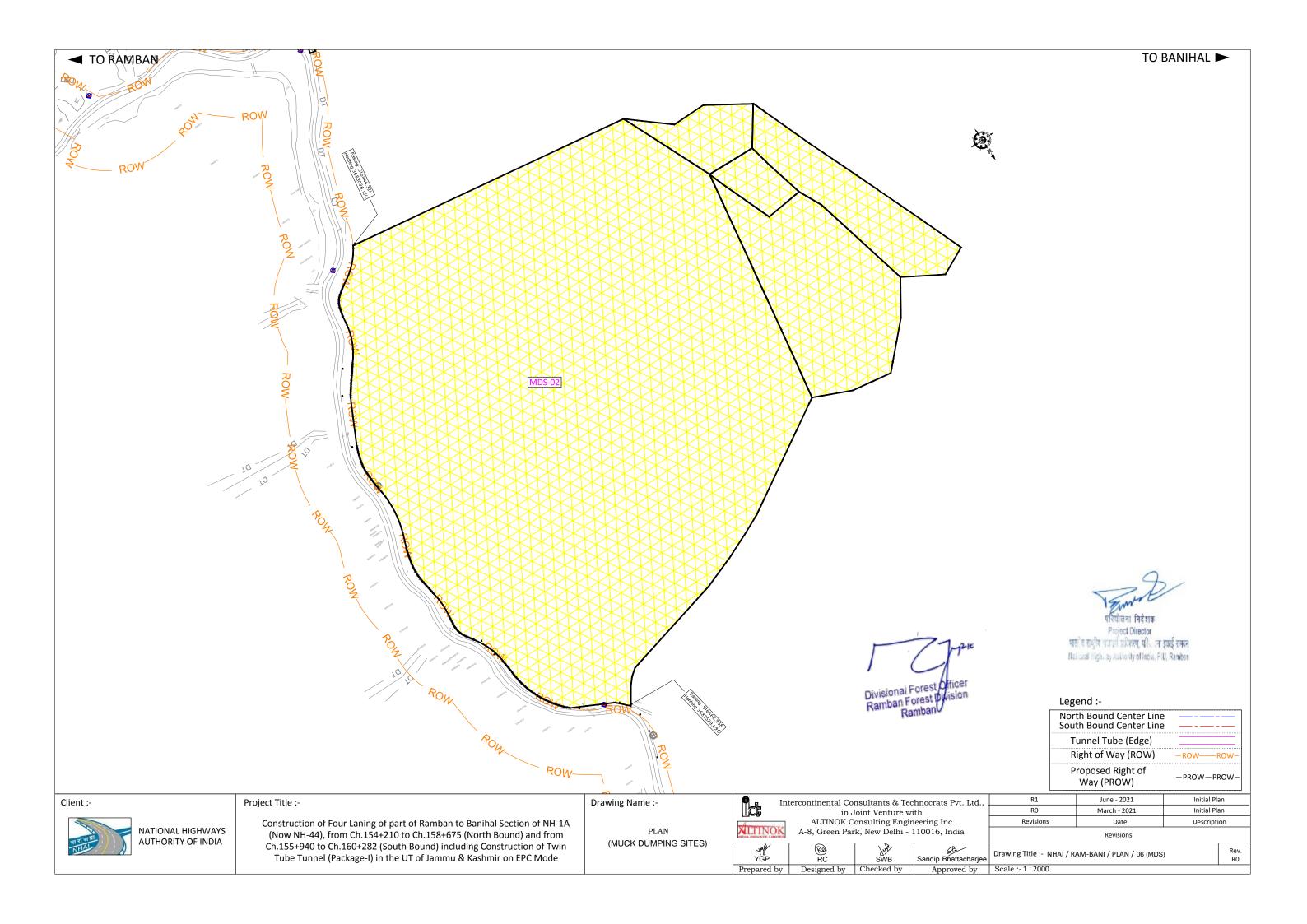
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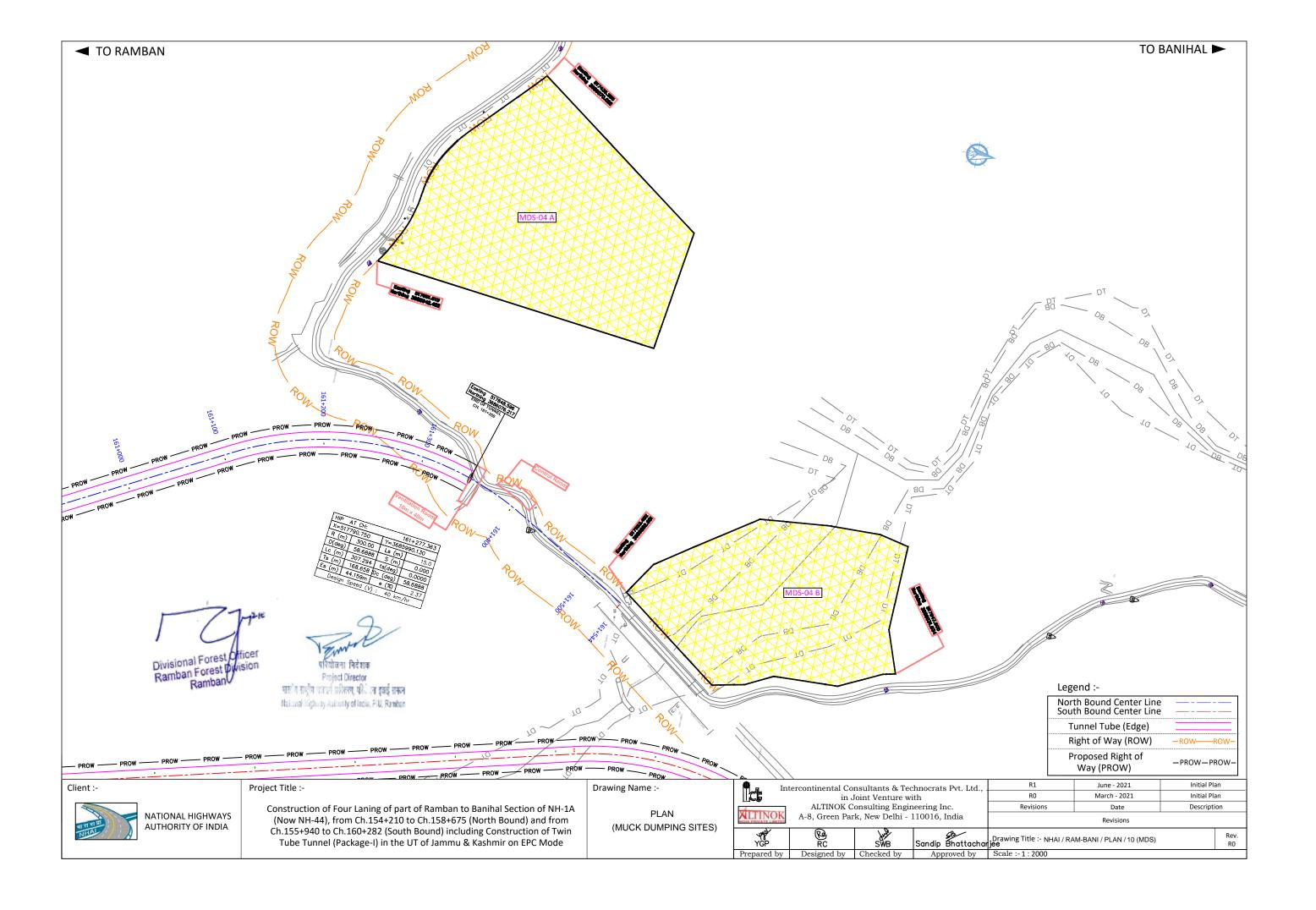
PLAN TUNNEL Ch: 158+400 to Ch: 158+700

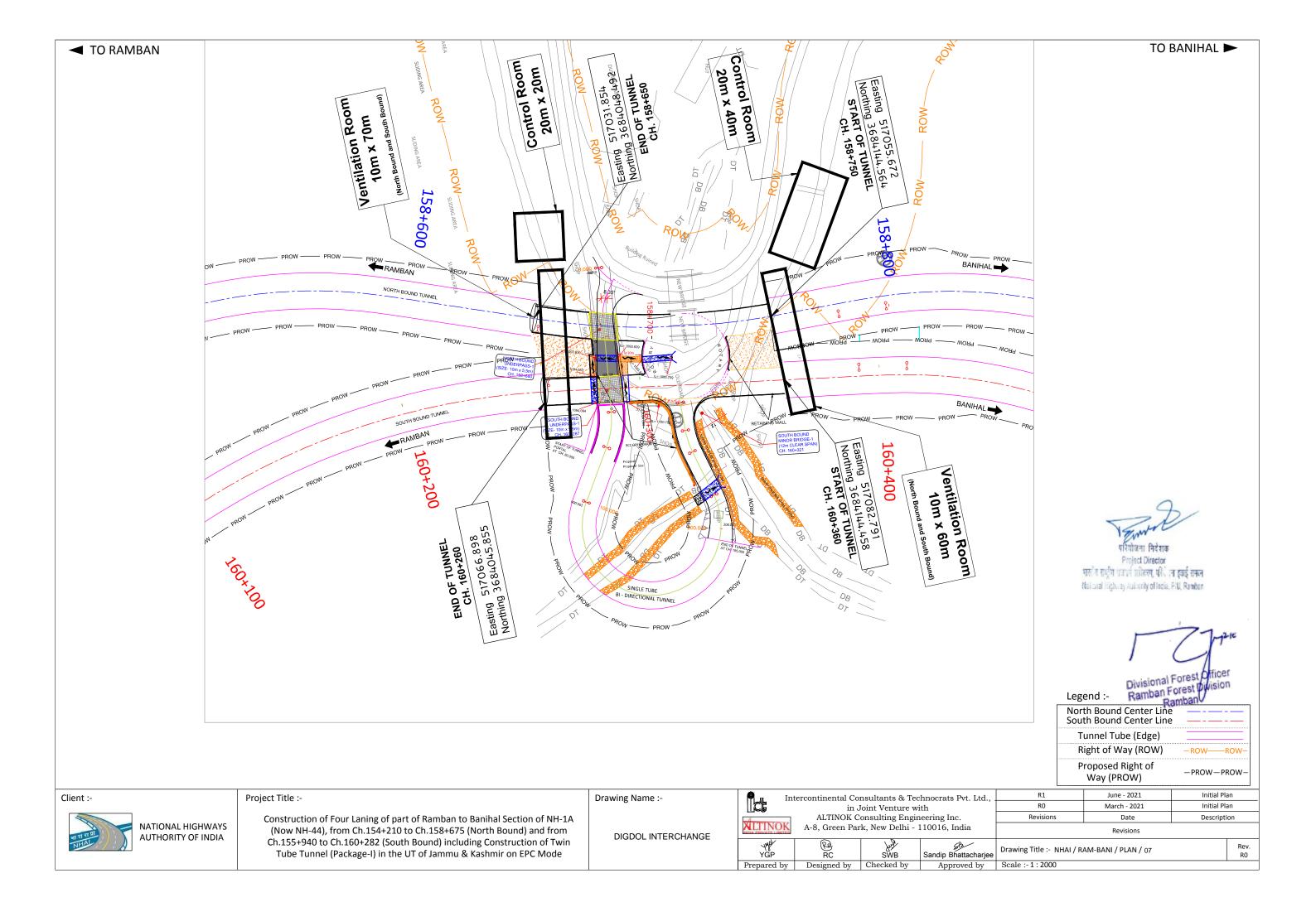
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LTINOK NOIA PSIIVATE LIMITED	ALTINOK Consulting Engineering Inc. A-8, Green Park, New Delhi - 110016, India

., -	R1	June - 2021	Initial Plan
	R0	March - 2021	Initial Plan
	Revisions	Date	Description
		Revisions	

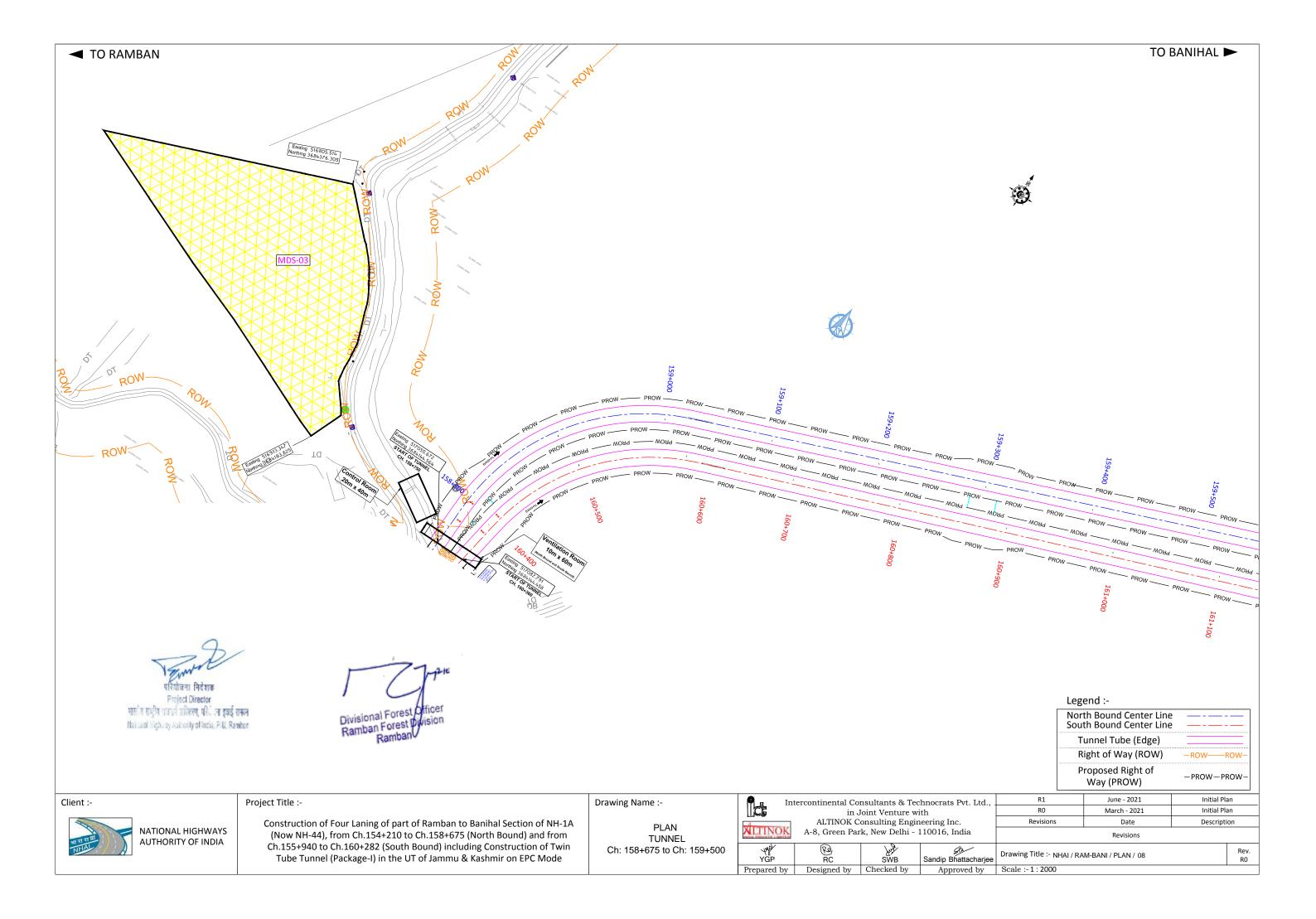
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YGP	RC	SWB	Sandip Bhattacharjee	Drawing Title :- NHAI / RAM-BANI / PLAN / 06	Rev. R0	
Prepared by	Designed by	Checked by	Approved by	Scale :-1:2000		

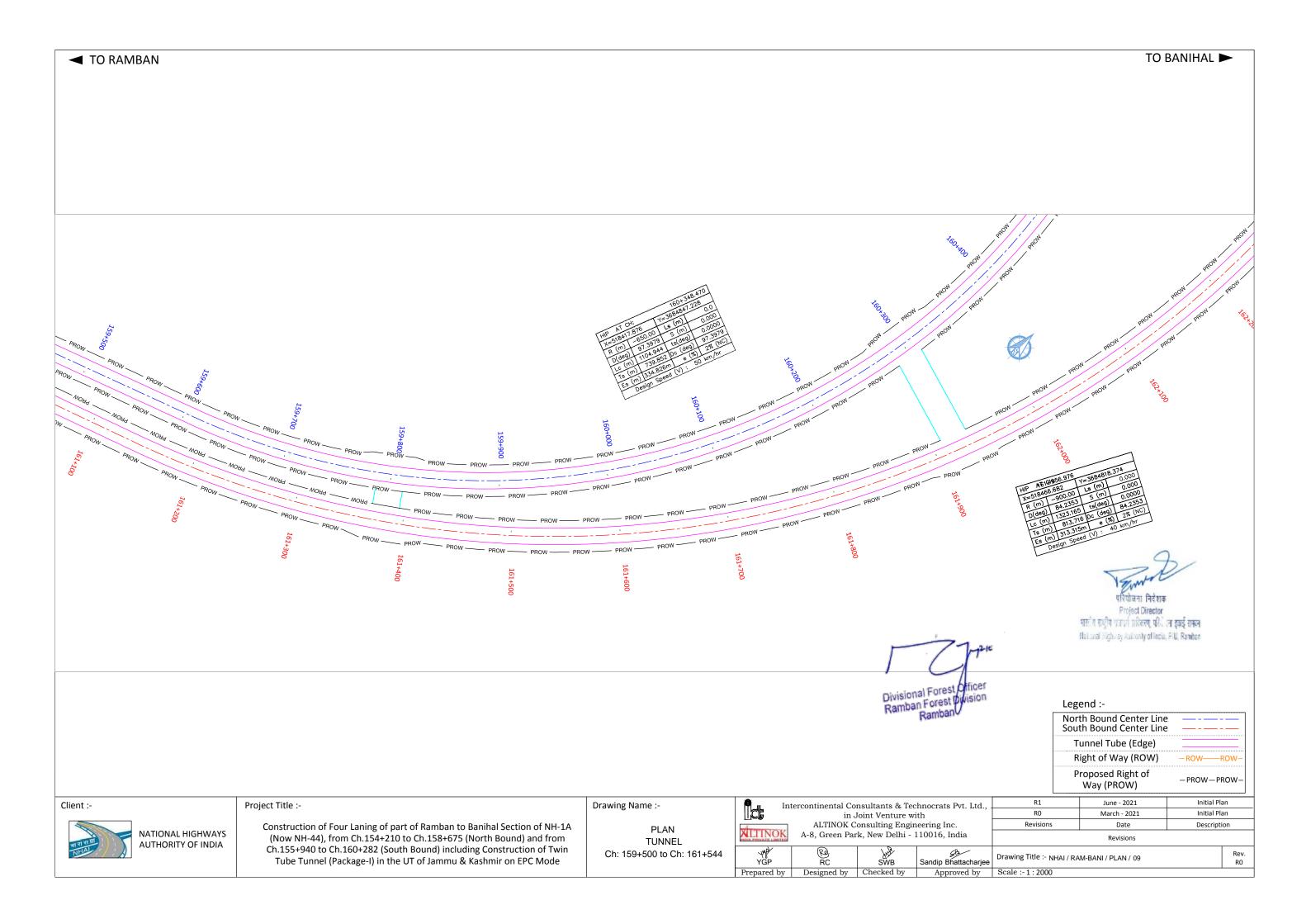


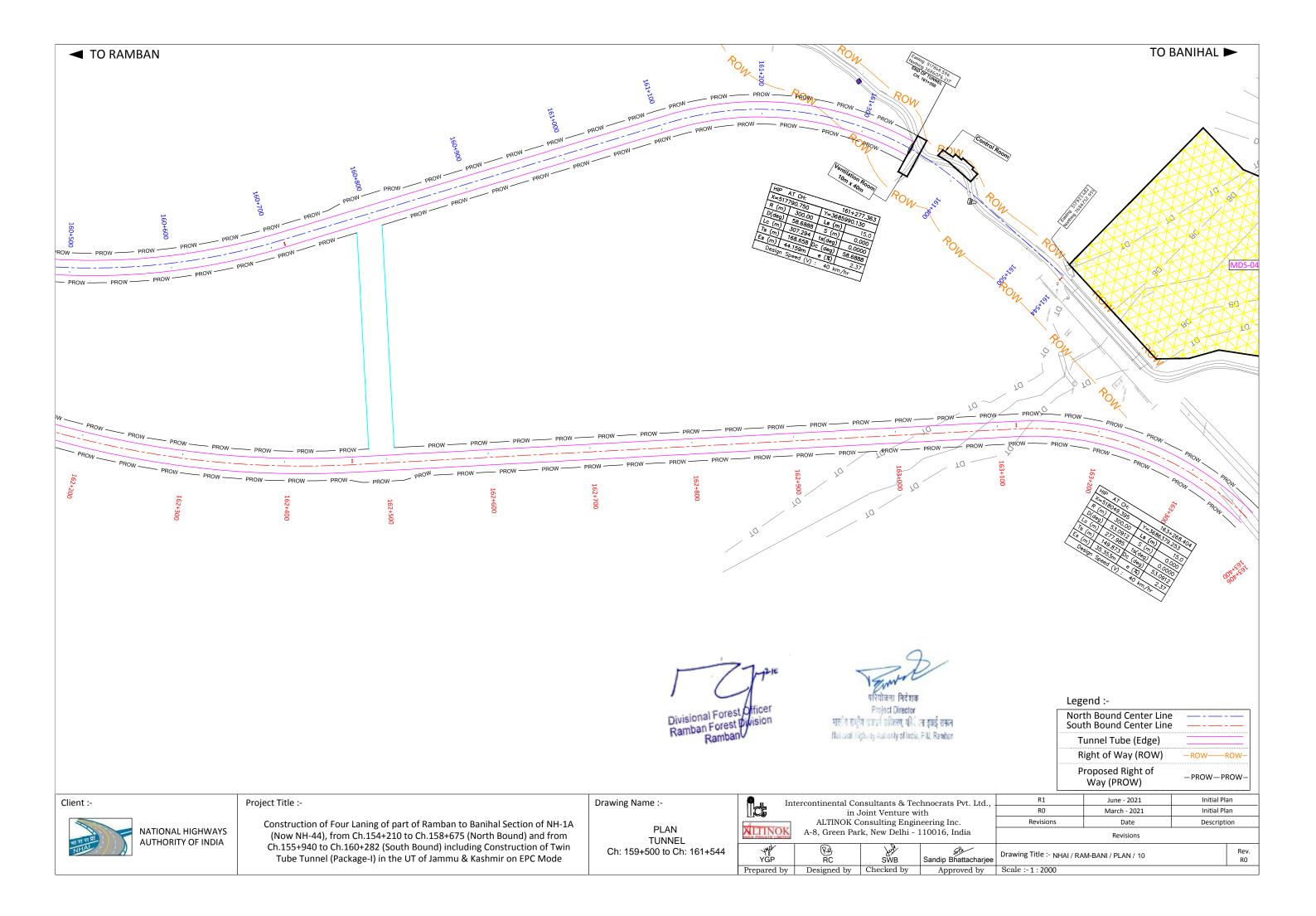




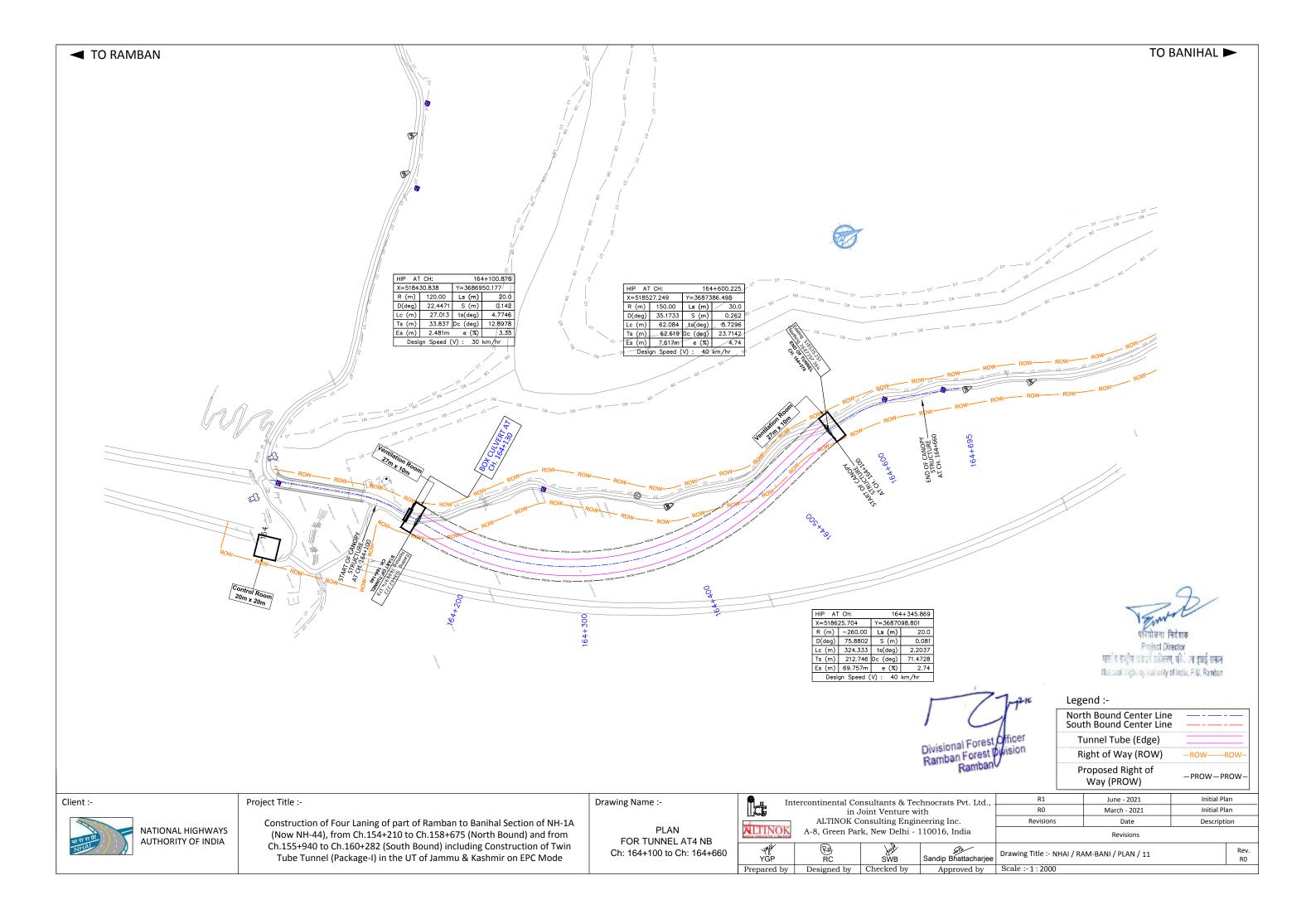




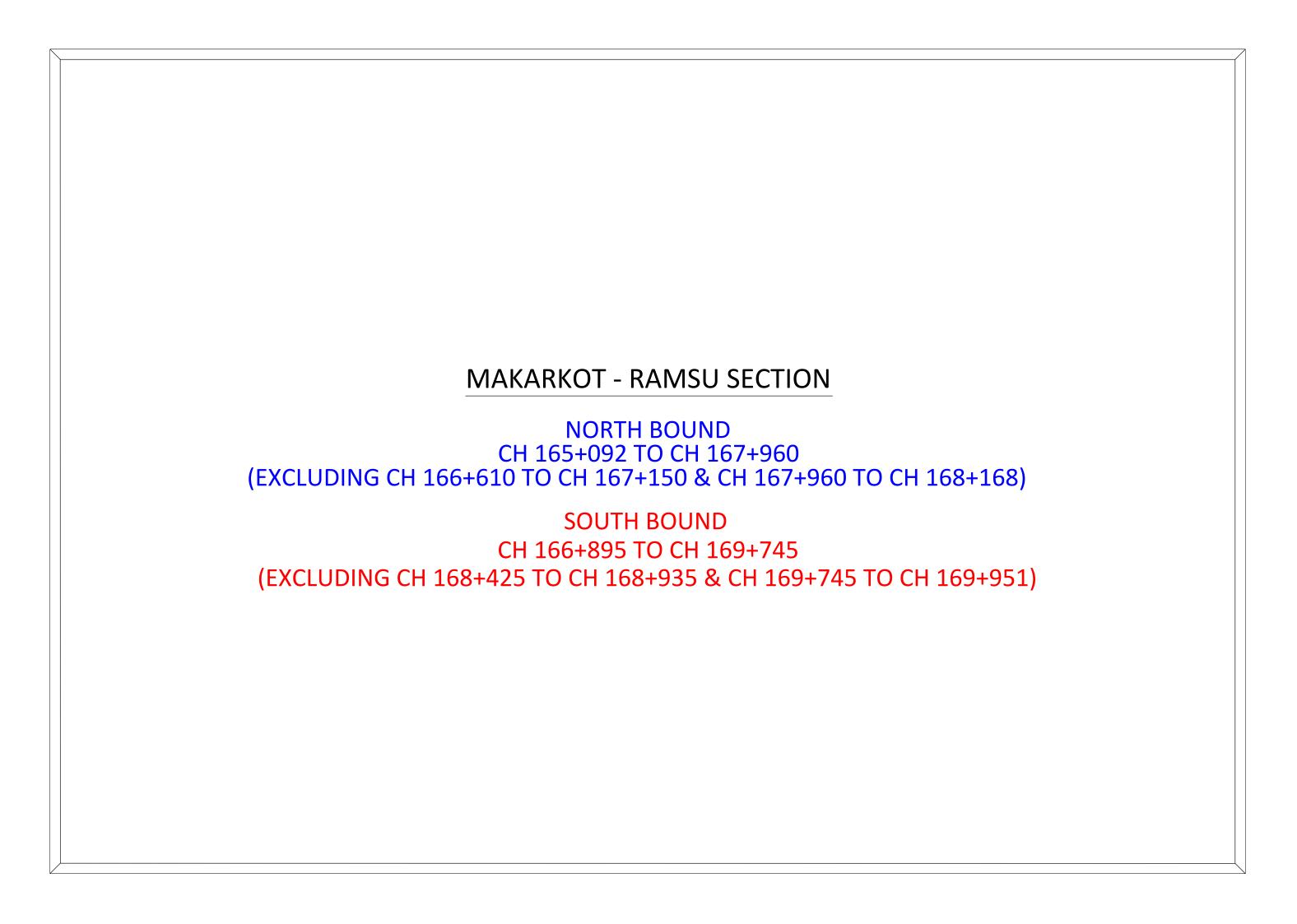


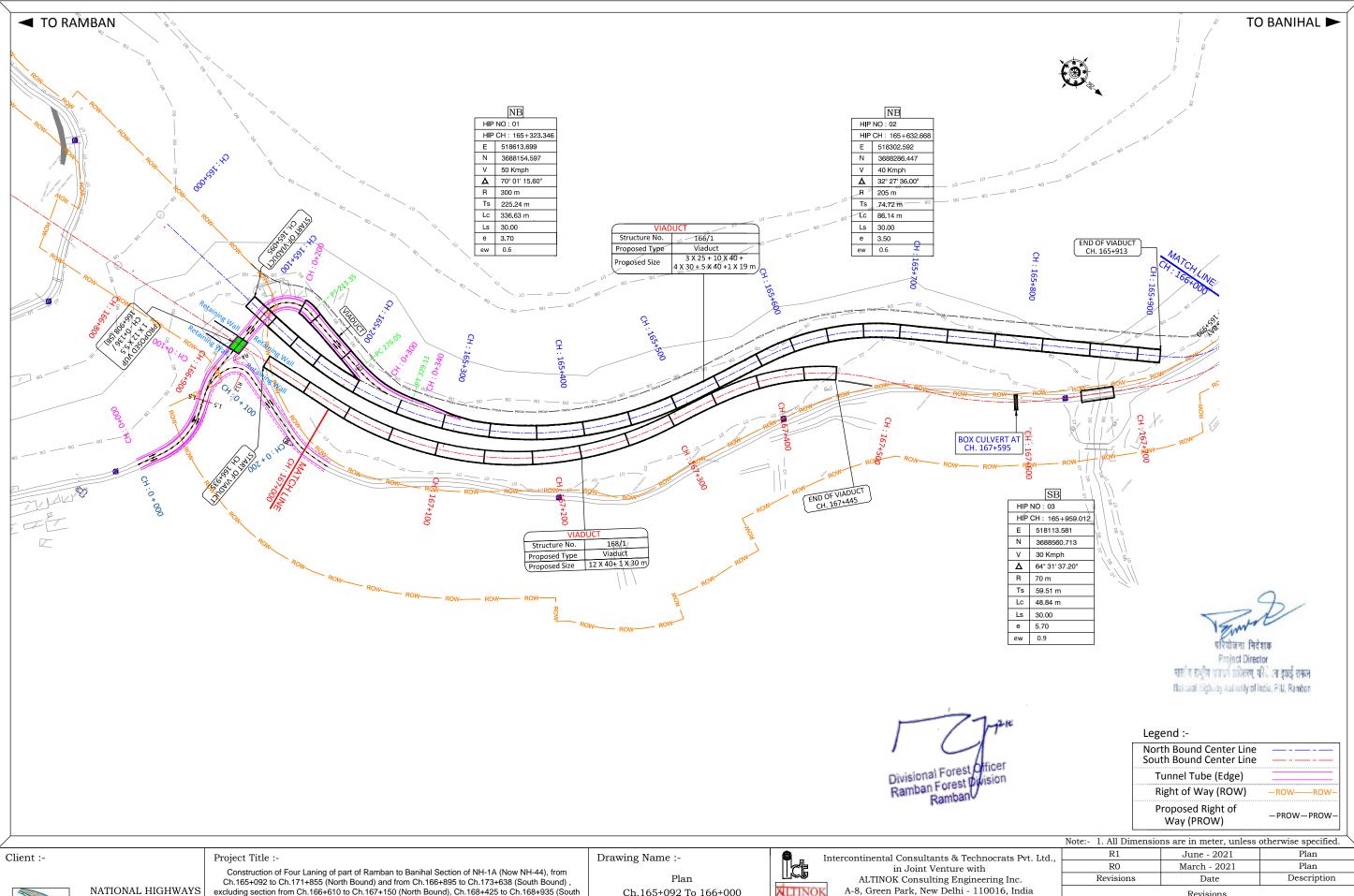












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excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

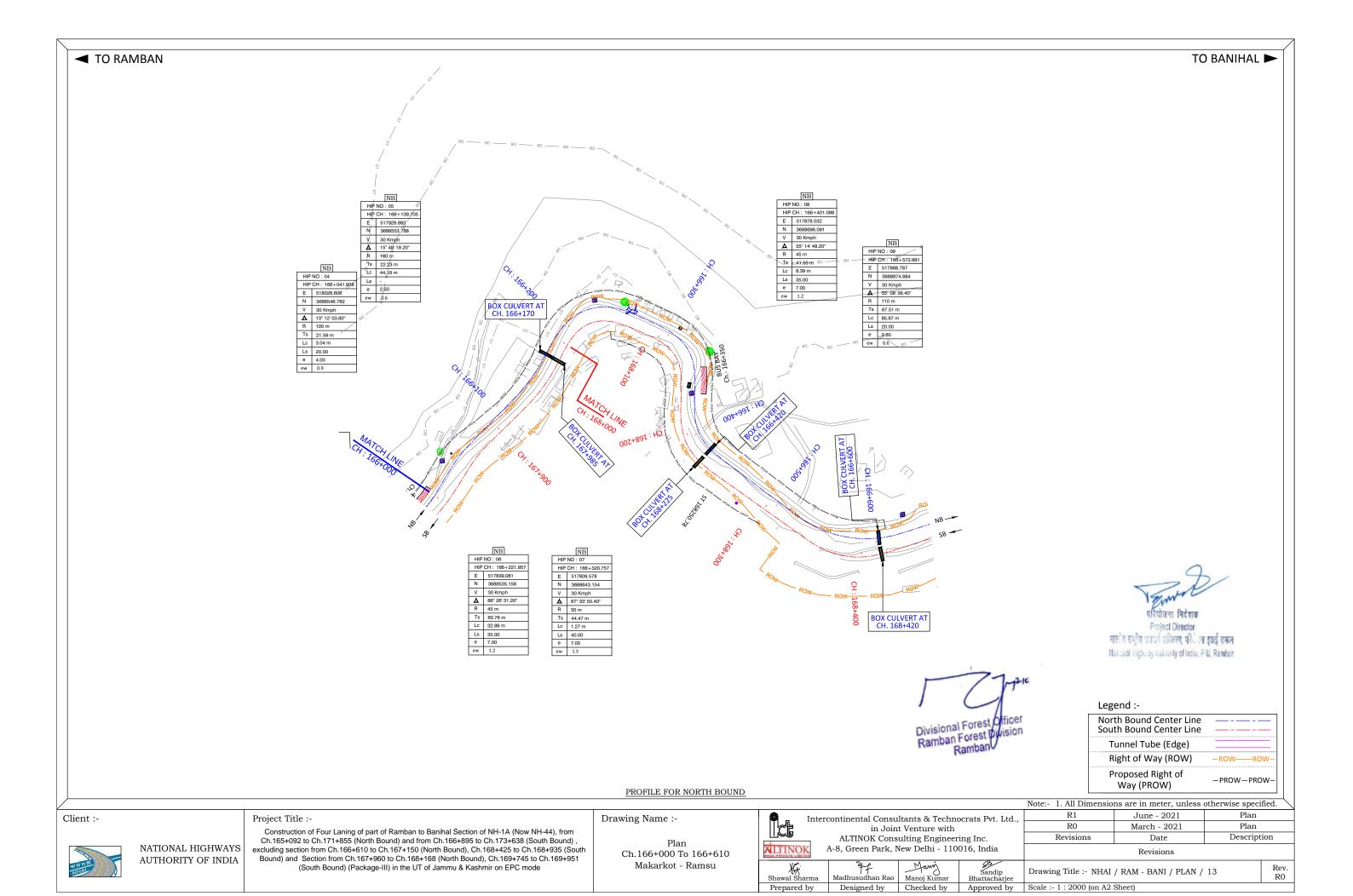
Ch.165+092 To 166+000 Makarkot - Ramsu (Viaduct)

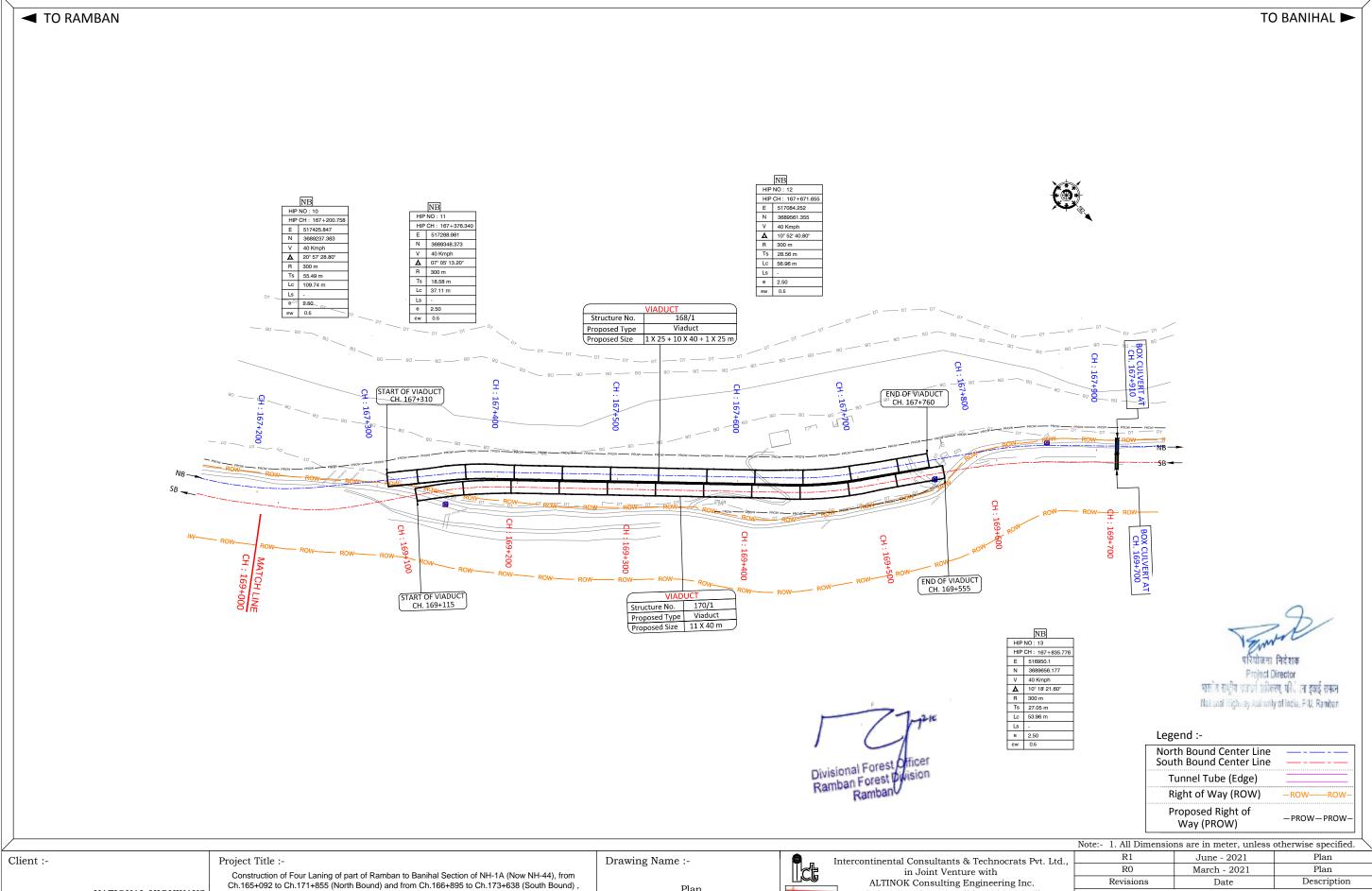
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LTINOK	A-8, Green Park, N	lew Delhi - 110	016, India
hawal Sharma	Juf Madhusudhan Rao	Manoj Kumar	Sandip Bhattacharjee

	Note:- 1. All Dimensions are in meter, unless otherwise specified.				
R1 R0		June - 2021	Plan		
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Revisions		Date	Description		
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Rev. R0 Drawing Title :- NHAI / RAM - BANI / P & P / 12 Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)





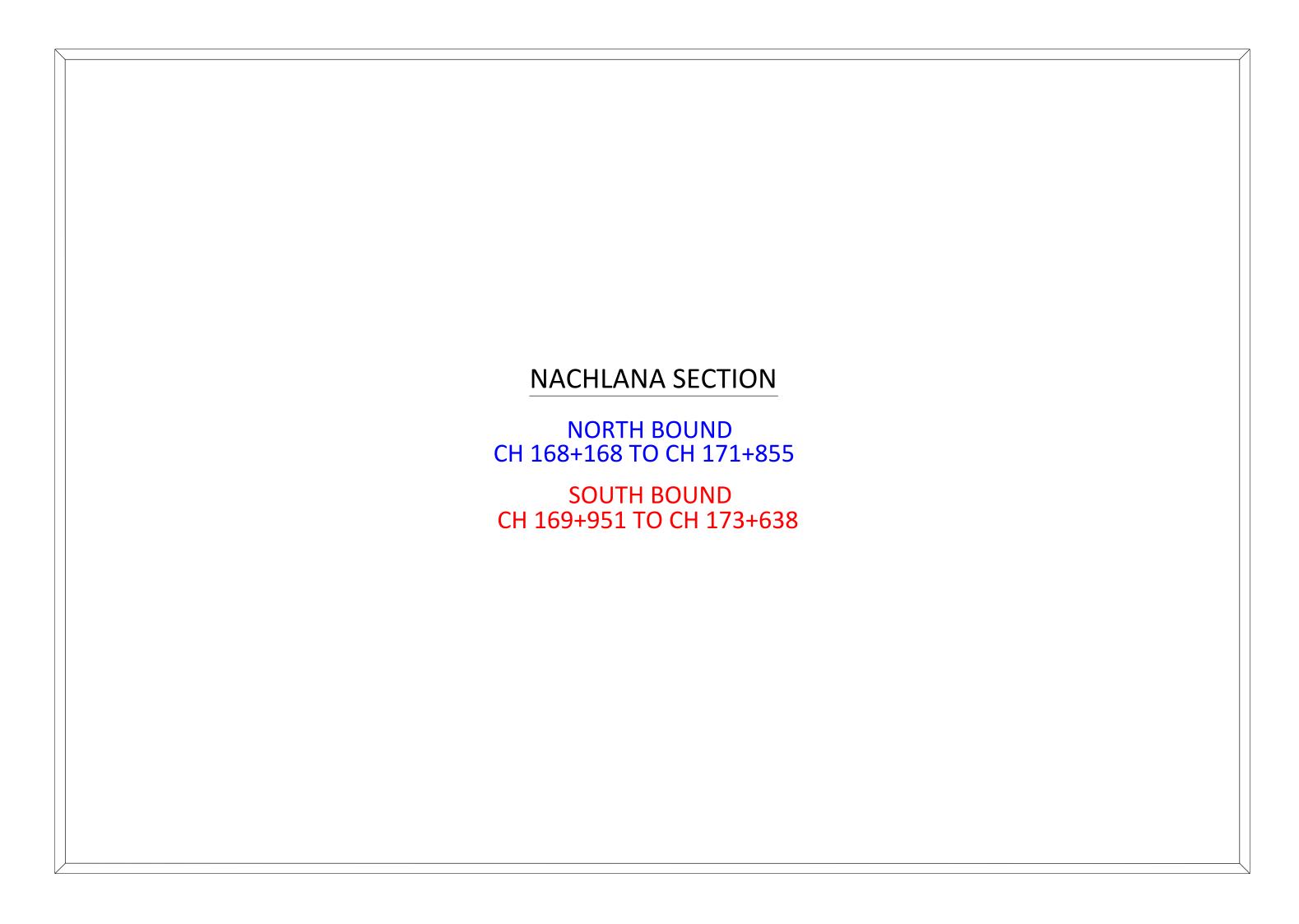
excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

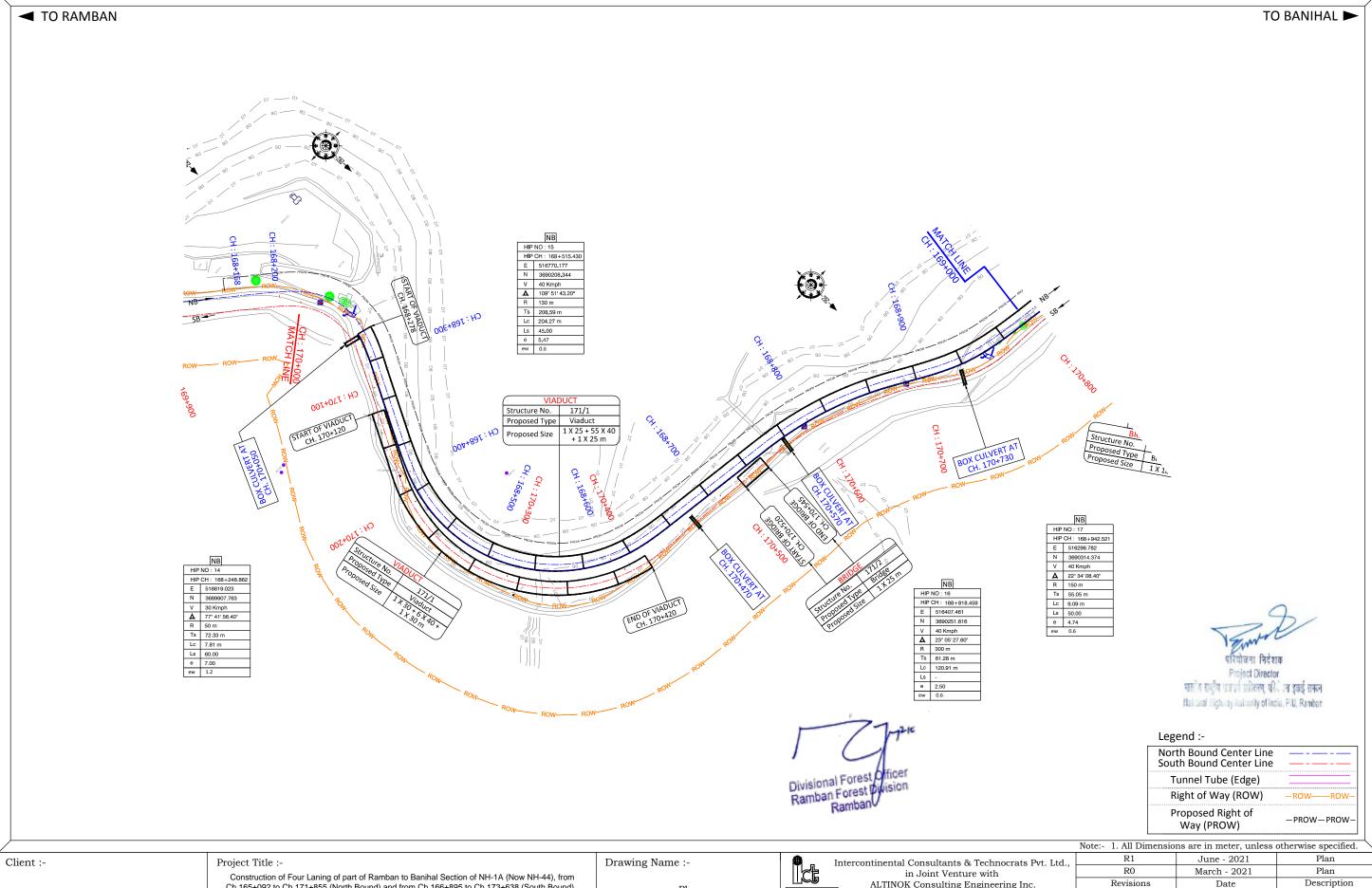
Plan Ch.167+150 To 167+960 Makarkot - Ramsu (Viaduct)

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A-8, Green Park, New Delhi - 110016, India

f Manoj Kum Rev. R0 Drawing Title :- NHAI / RAM - BANI / PLAN / 14 Bhattacharjee Prepared by Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)





Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.165+092 to Ch.171+855 (North Bound) and from Ch.166+895 to Ch.173+638 (South Bound) , excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

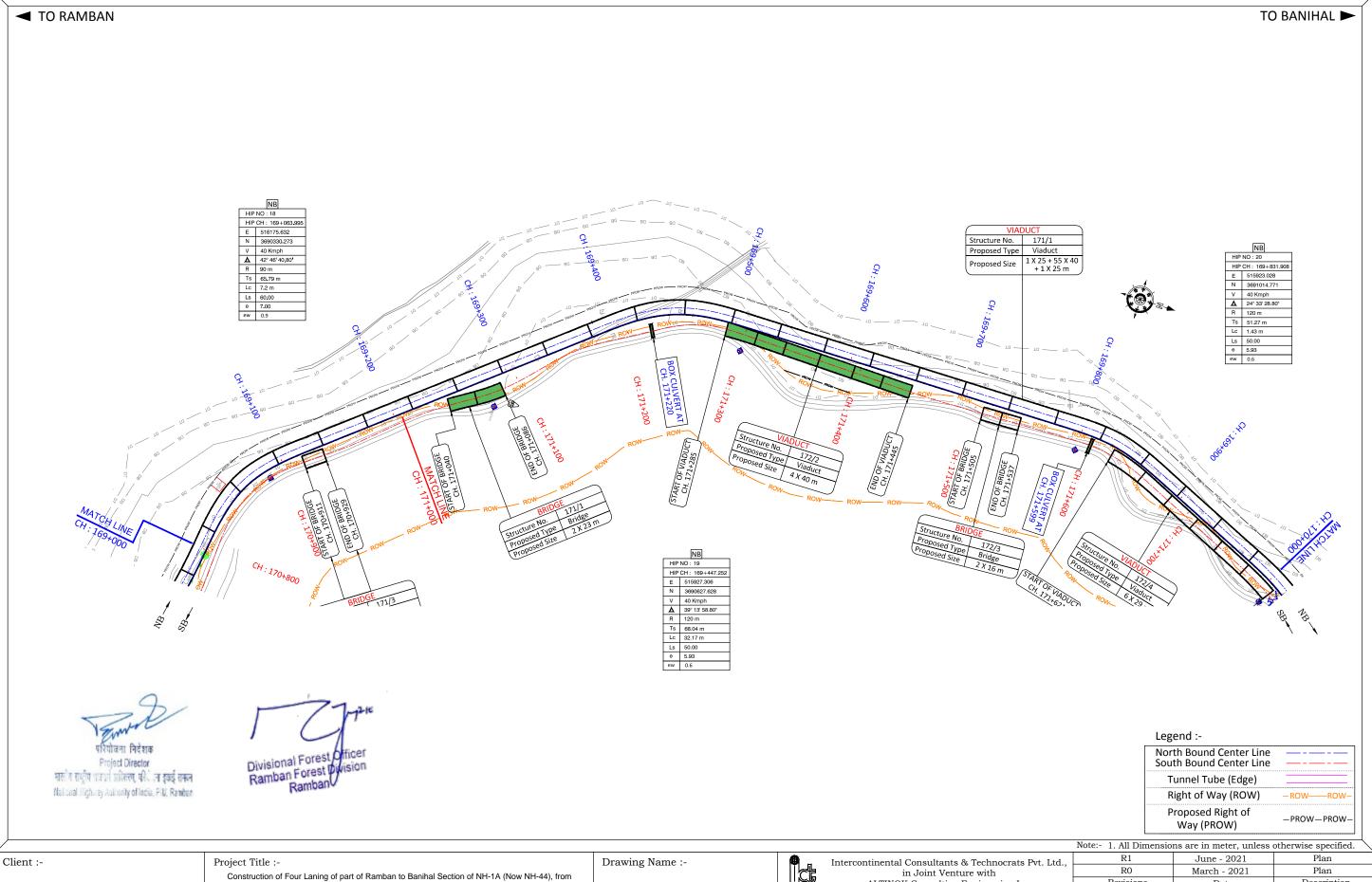
Plan Ch.168+168 To 169+000 Nachlana (Viaduct)

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Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.165+092 to Ch.171+855 (North Bound) and from Ch.166+895 to Ch.173+638 (South Bound) , excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Plan Ch.169+000 To 170+000 Nachlana (Viaduct)

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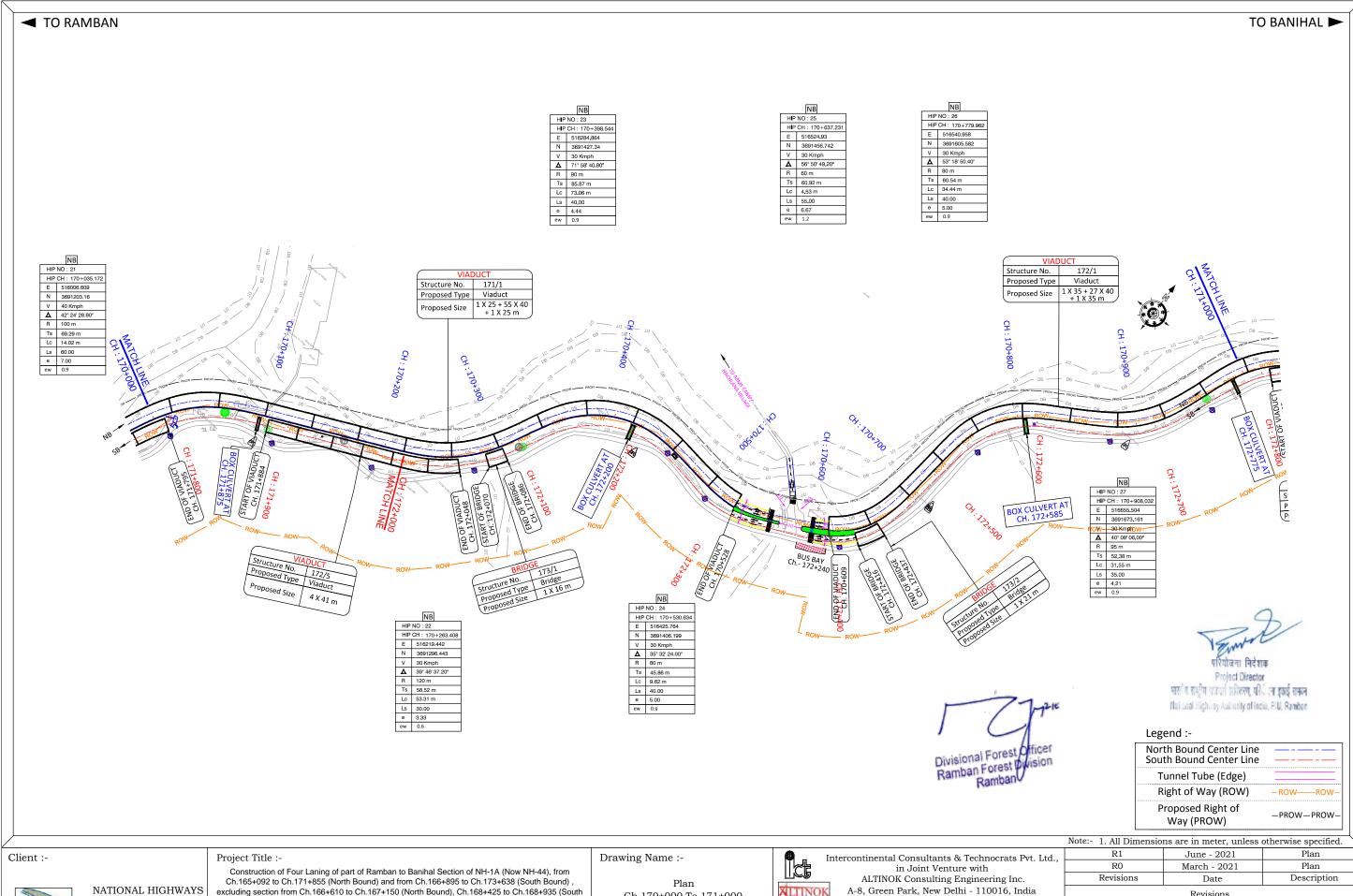
ng Engineering Inc Delhi - 110016, In

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Description visions Date

Revisions

Rev. R0 Drawing Title :- NHAI / RAM - BANI / PLAN / 16 Bhattacharjee Prepared by Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)



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excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Ch.170+000 To 171+000 Nachlana (Viaduct)

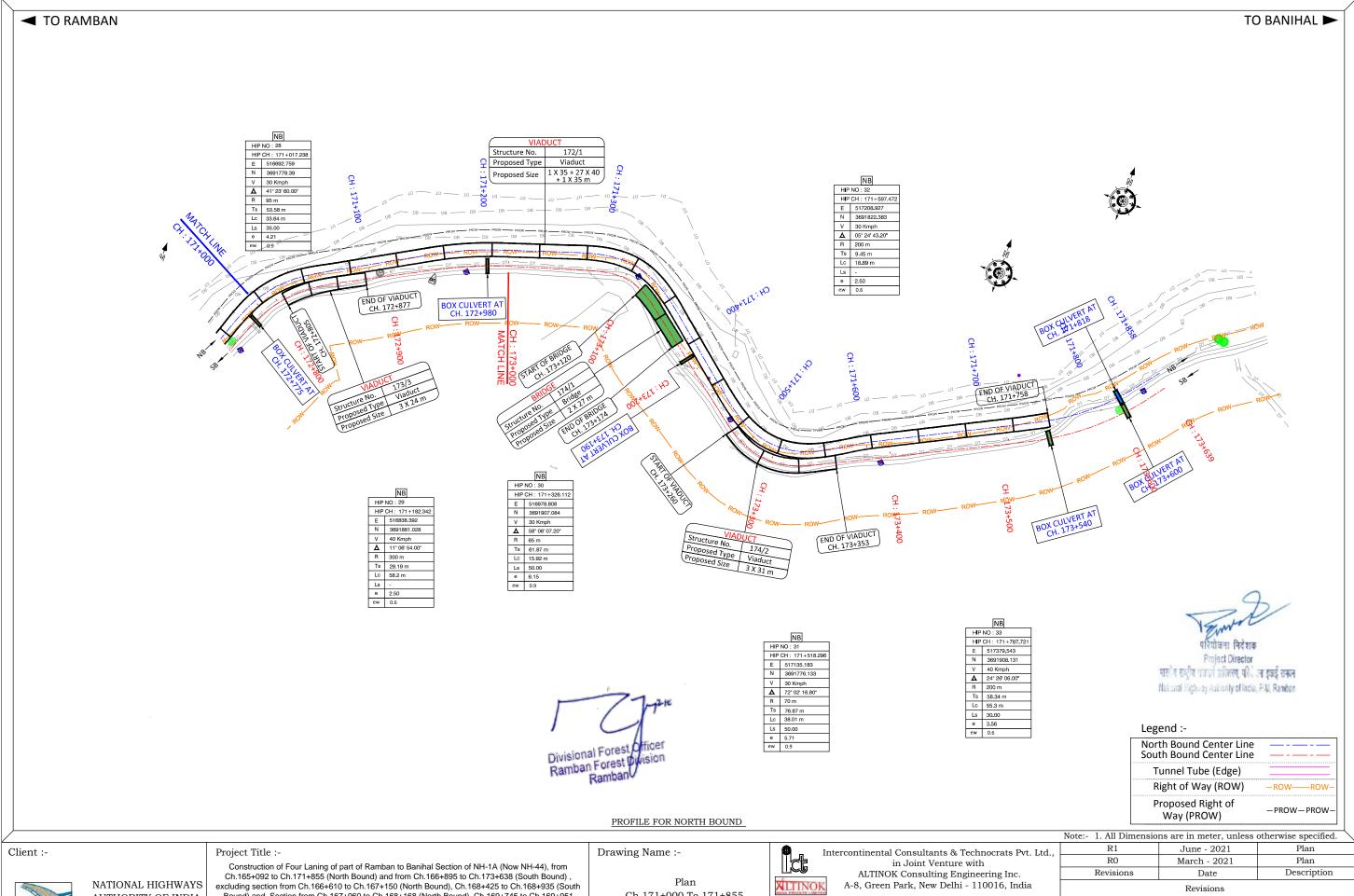
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Prepared by

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Rev. R0 Drawing Title :- NHAI / RAM - BANI / PLAN / 17 Bhattacharjee Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)

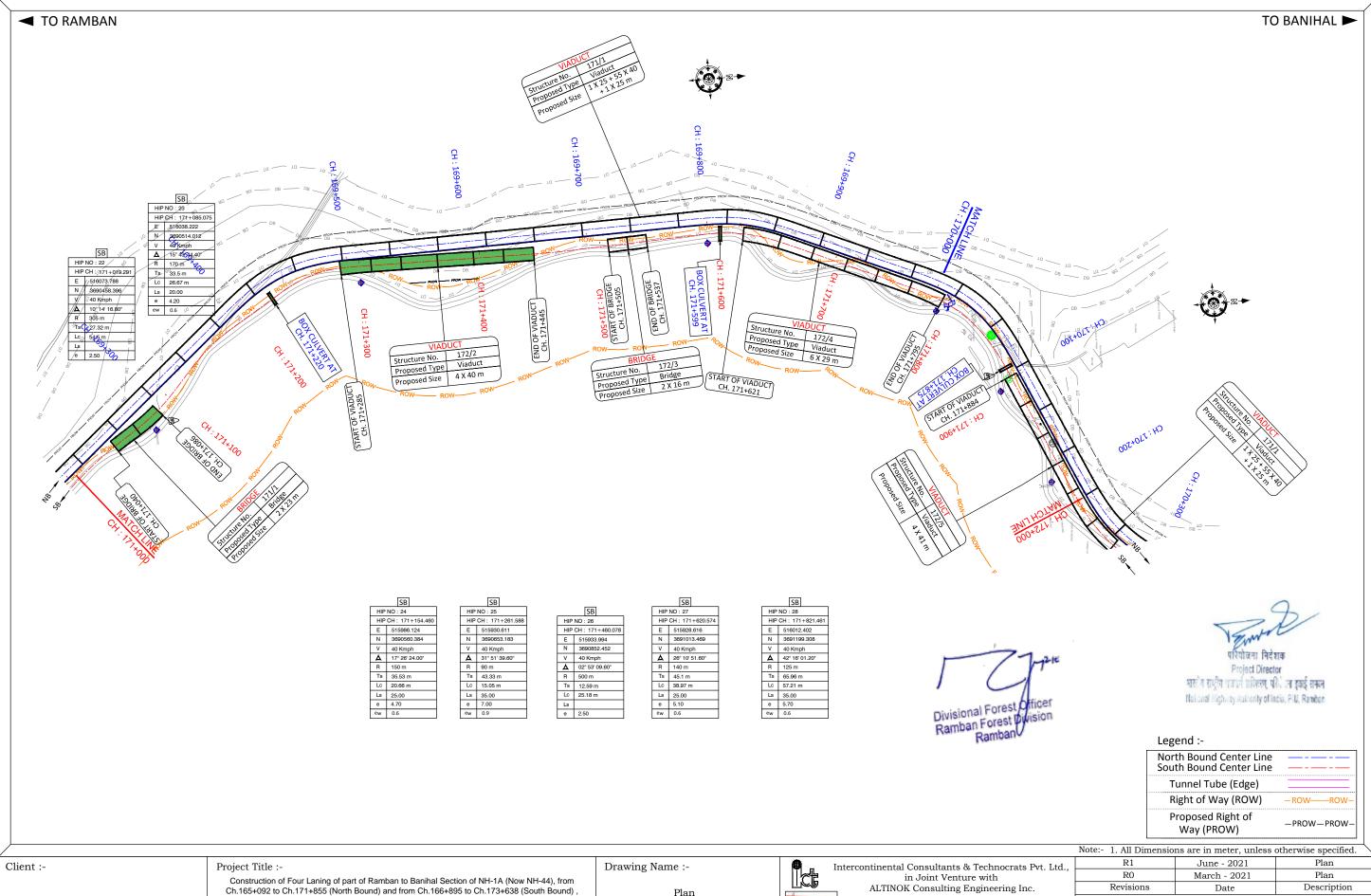


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Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Ch.171+000 To 171+855 Nachlana (Viaduct)

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excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

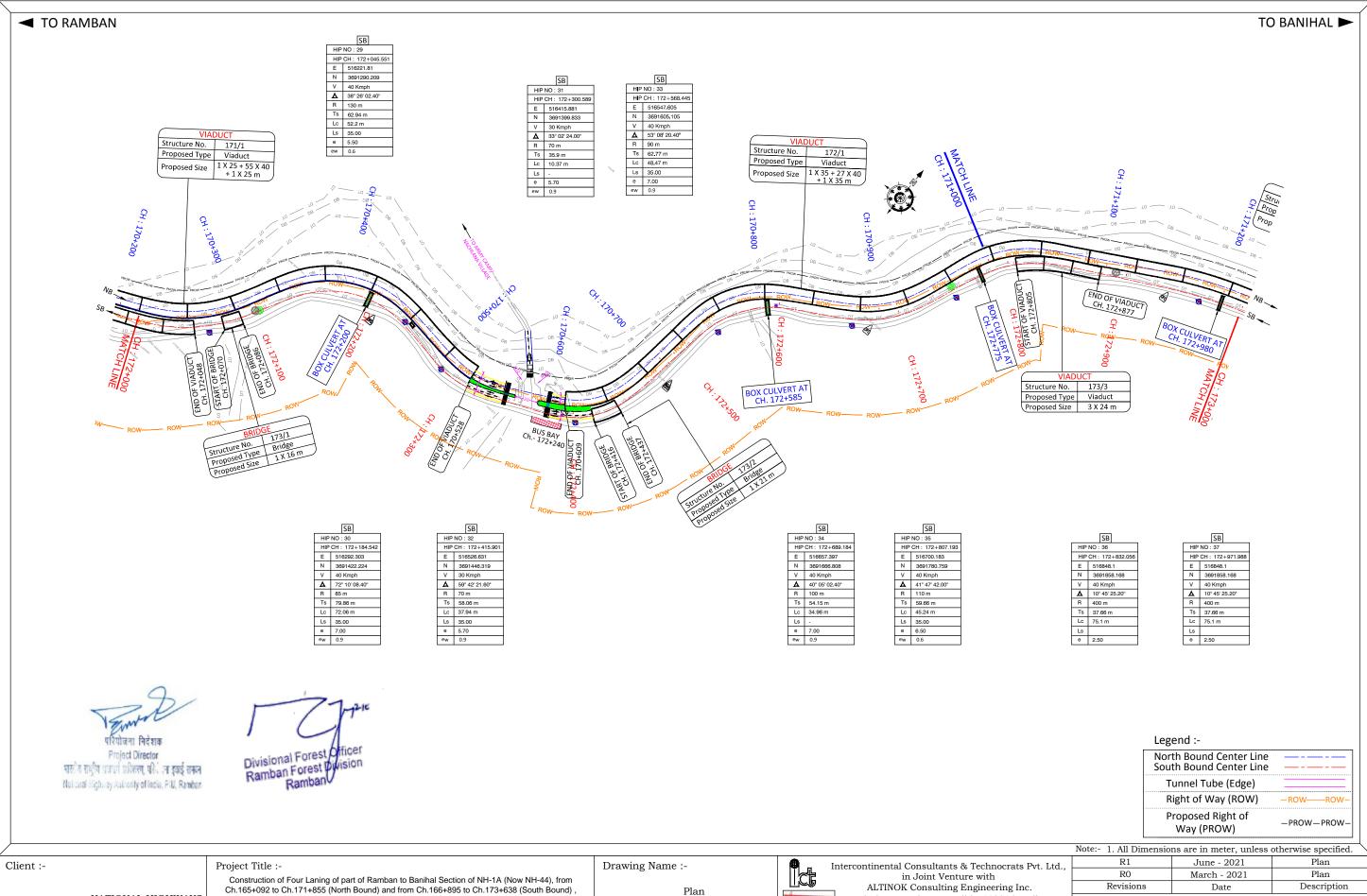
Ch.171+000 To 172+000 Nachlana (Viaduct)



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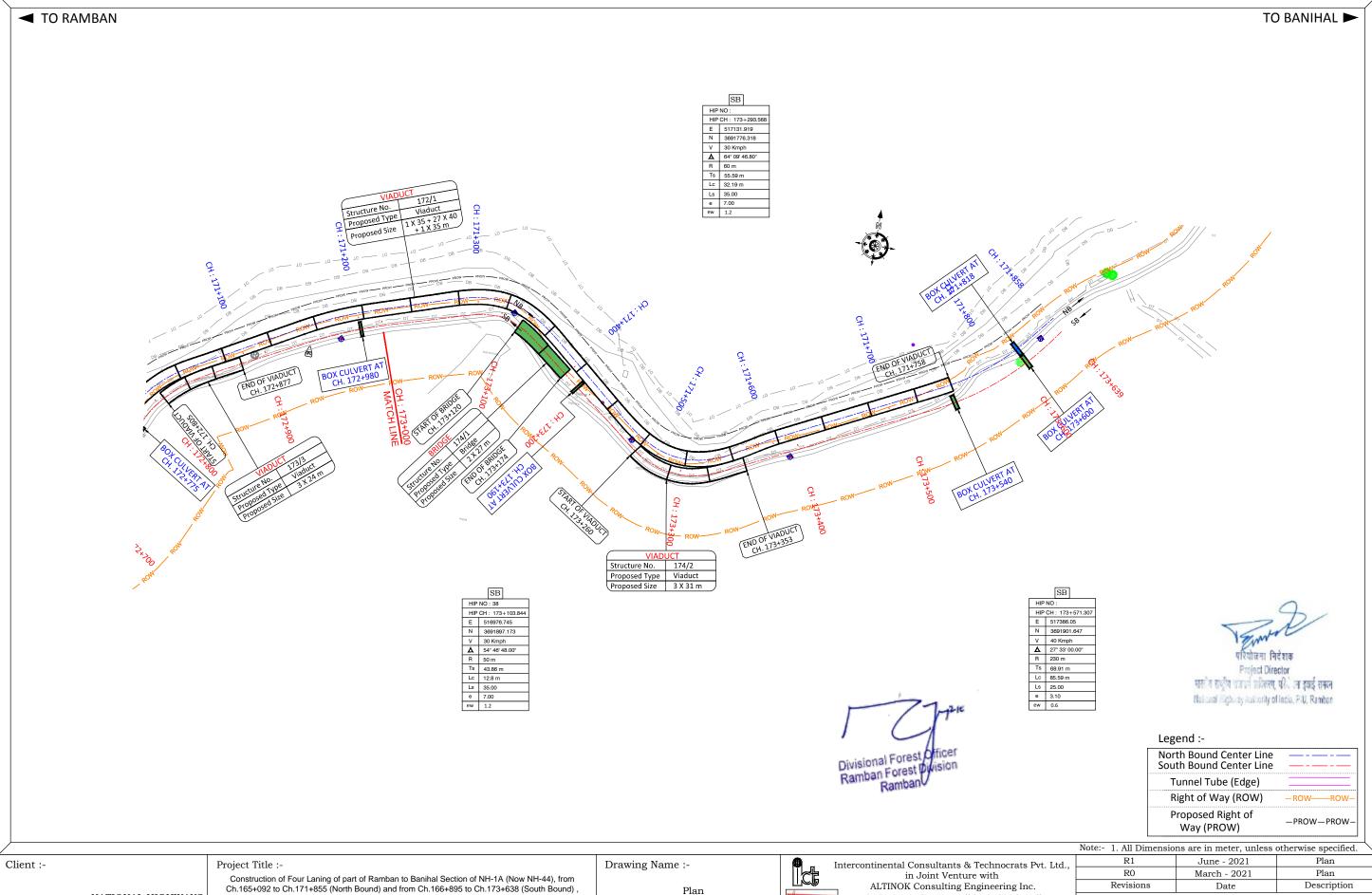
excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Ch.172+000 To 173+000 Nachlana (Viaduct)

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R1	June - 2021	Plan		
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Revisions	Date	Description		
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excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Ch.173+000 To 173+638 Nachlana (Viaduct)

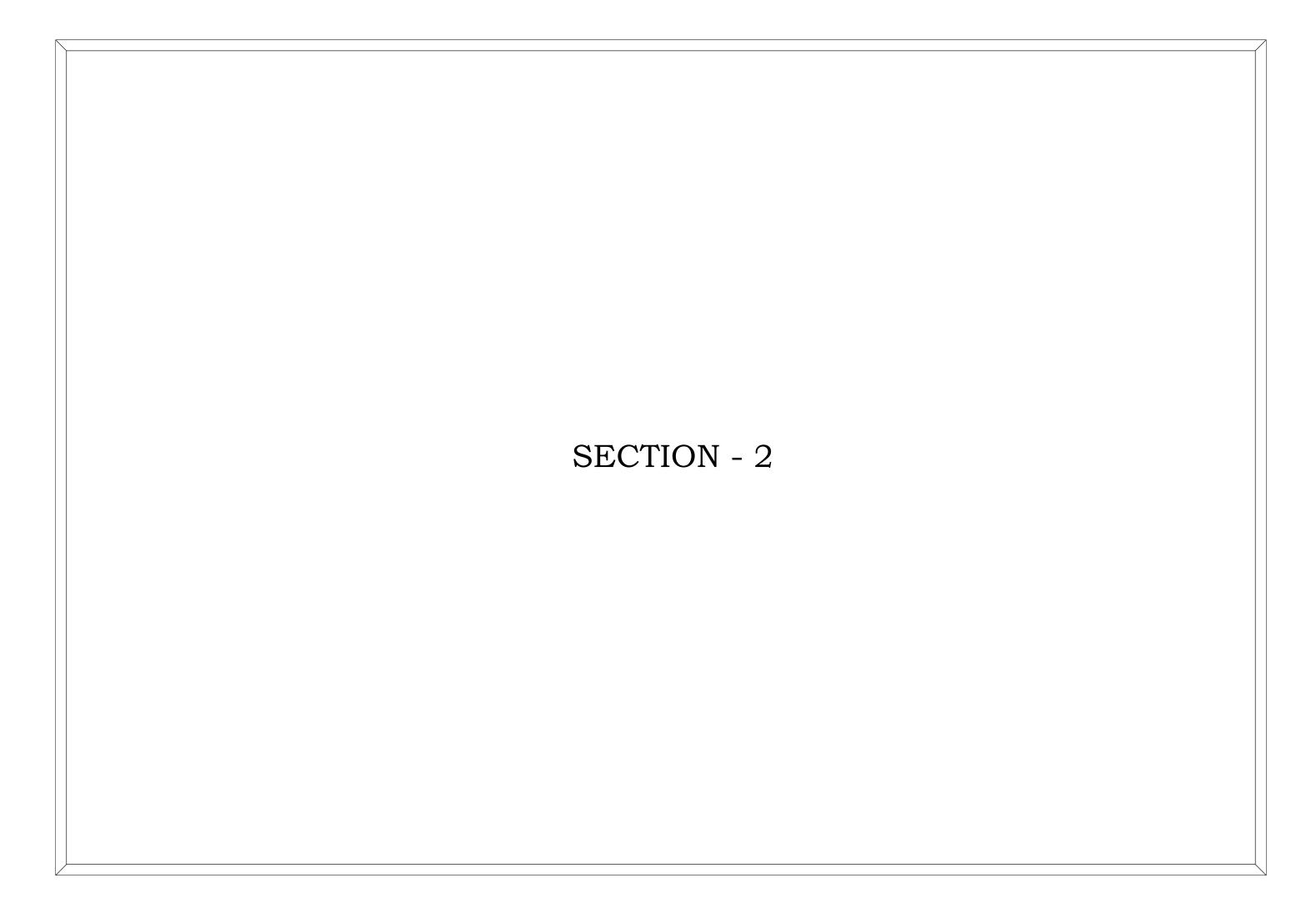


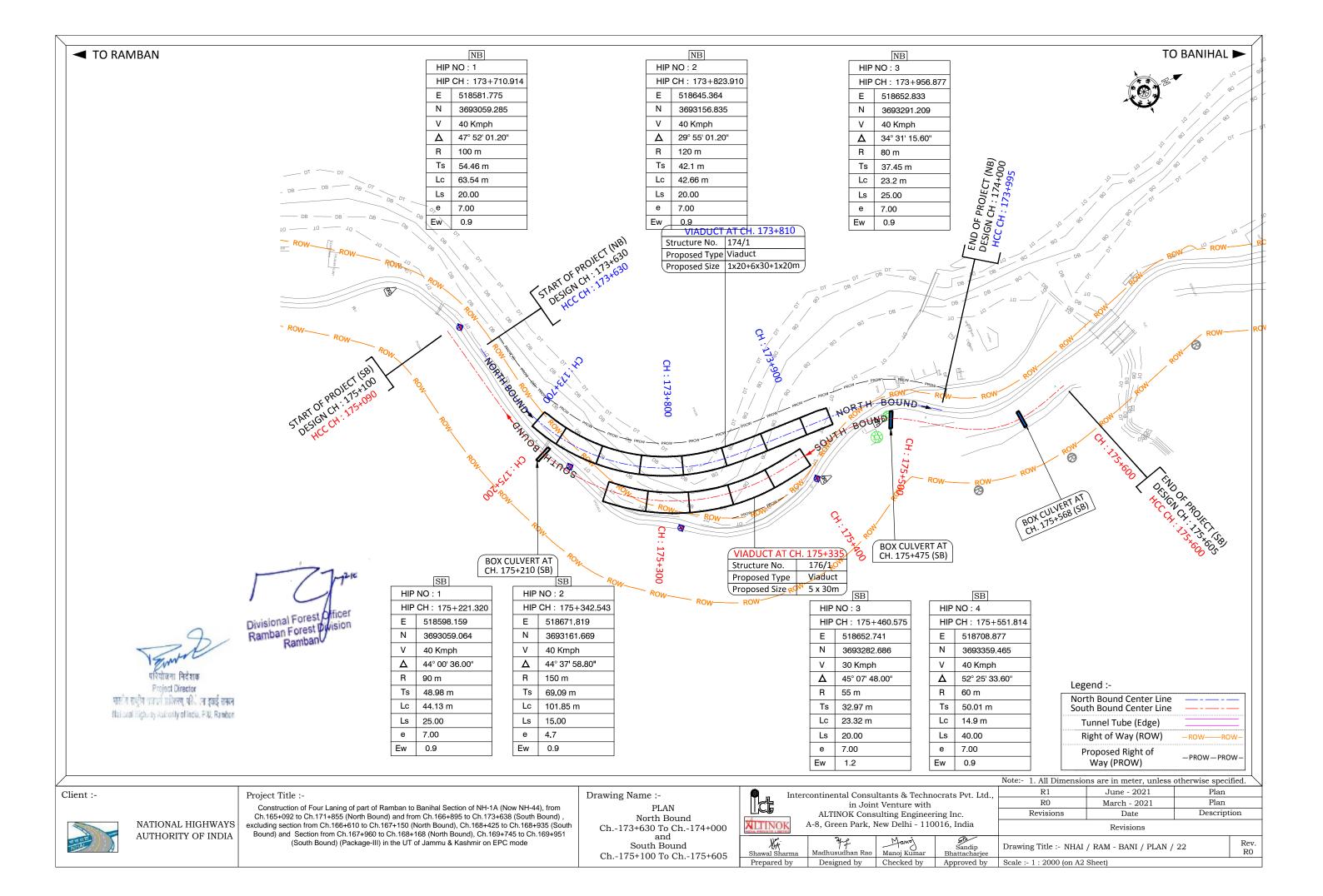
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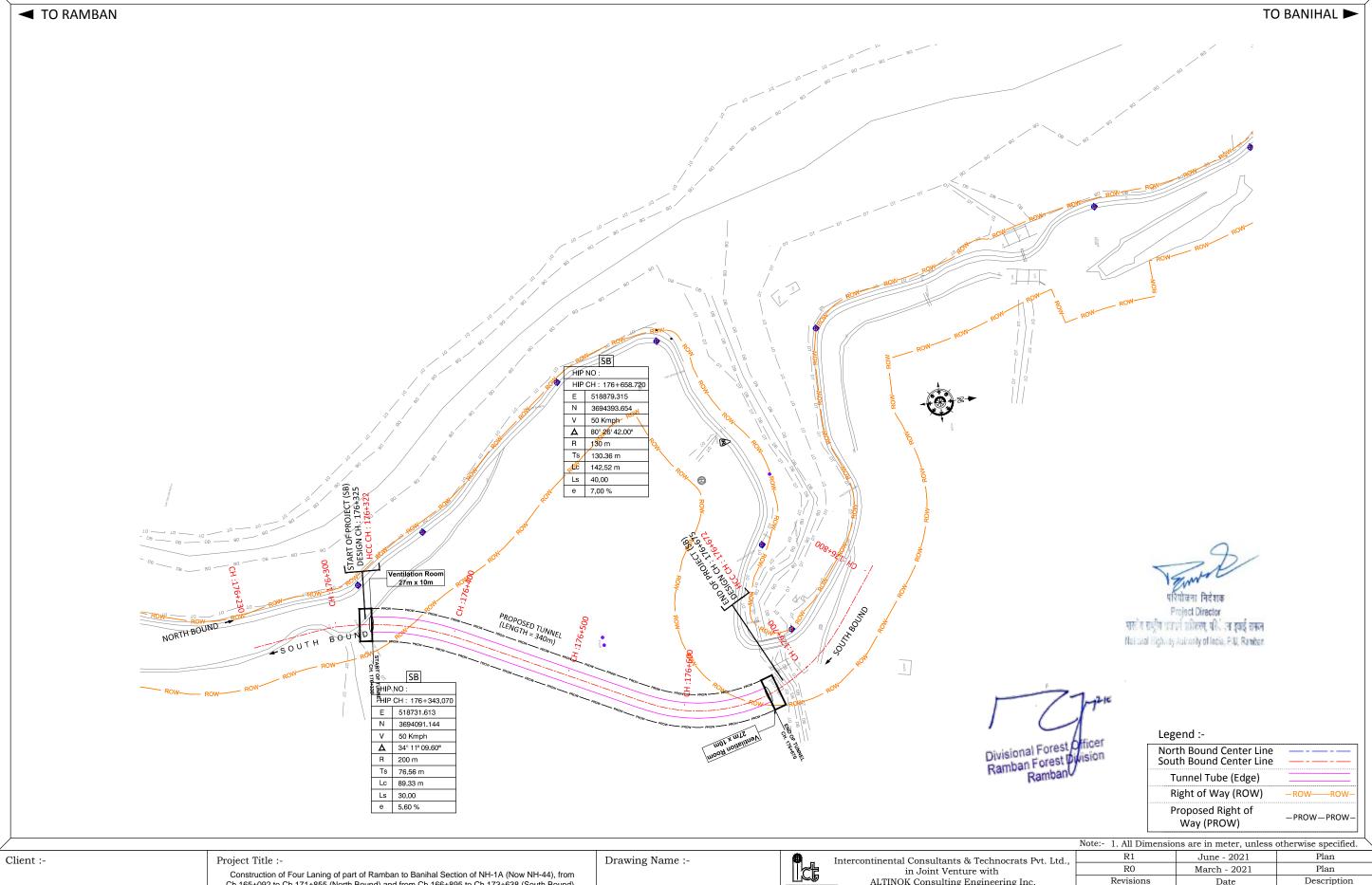
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Rev. R0 Drawing Title :- NHAI / RAM - BANI / PLAN / 21 Prepared by Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)







Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.165+092 to Ch.171+855 (North Bound) and from Ch.166+895 to Ch.173+638 (South Bound) , excluding section from Ch.166+610 to Ch.167+150 (North Bound), Ch.168+425 to Ch.168+935 (South Bound) and Section from Ch.167+960 to Ch.168+168 (North Bound), Ch.169+745 to Ch.169+951 (South Bound) (Package-III) in the UT of Jammu & Kashmir on EPC mode

Plan Ch.176+325 To Ch.176+675

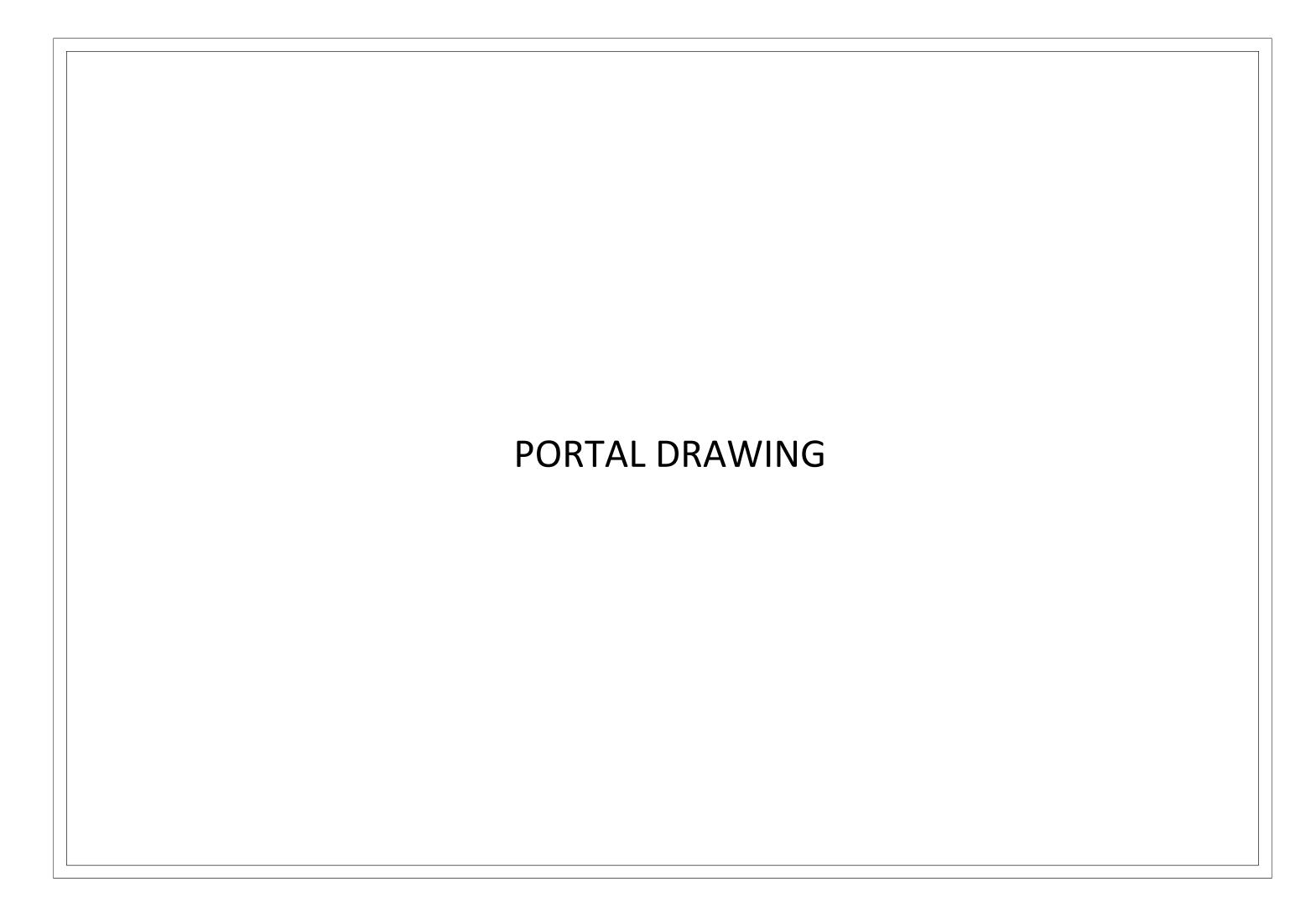


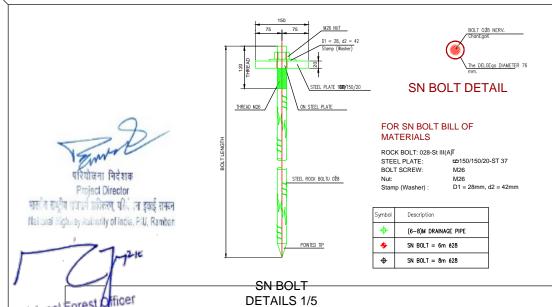
Intercontinental Consultants & Technocrats Pvt. Ltd., in Joint Venture with ALTINOK Consulting Engineering Inc. A-8, Green Park, New Delhi - 110016, India

	R1	June - 202
,	R0	March - 20
	Revisions	Date
		Revisions

Drawing Title :- NHAI / RAM - BANI / PLAN / 23

Bhattacharjee Prepared by Designed by Checked by Approved by Scale :- 1 : 2000 (on A2 Sheet)





#### Notes:

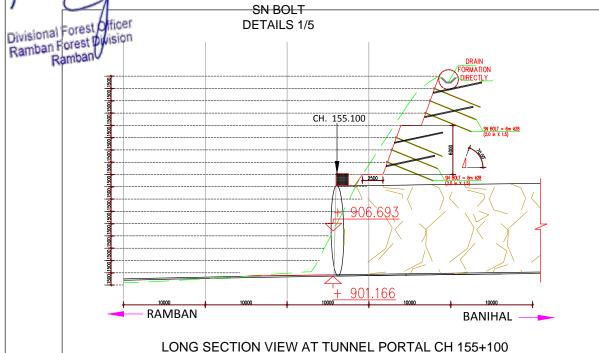
- 1-TORQUE CALIBRATED TO FORM 2-TON FORCE IN THE NUTS BOLTDA WILL BE BORED WITH THE KEY.
- 2-OUT 5-6 cm. THE ENDS OF THE BOLT WILL BE CUT WITH OXYGEN.
- 3-MESH STEEL RADIAL DIRECTION 3 EYE, LONGITUDINAL DIRECTION 2 EYE OVERLAP.
- 4-IF AMBIENT CONDITIONS ARE MORE VARIABLE THAN EXPECTED, THE BOLT AND WIP APPLICATION LENGTH, RANGE, SHAPE AND TYPE (SUPPORT SYSTEMS) ENGINEER AND WILL BE REVISED ON SITE WITH THE APPROVAL OF THE ADMINISTRATION.
- 5-TUNNEL PORTAL EXCAVATION; EXCAVATION STAGE HEIGHT 2.5m. TO be DONE, AN UPPER SHEV EXCAVATION WILL NOT BE ENTERED INTO A SUB-SEV EXCAVATIONS BEFORE COMPLETION.
- BE REVISED BY THE ENGINEER AND THE ADMINISTRATION.
- 6-SUPPORT SYSTEM (Genus and Quantity) ENVIRONMENTAL CONDITIONS ENCOUNTERED DURING EXCAVATION
- 7-BOLT FORAGES WHEN FACED WITH WATER SENSITIVE FLOORS DURING MANUFACTURING WILL BE MADE WITH DRY PUNCH.
- 8-PG BOLT and IBO BOLT WHEN ALL BOLT need TO be DESIGNATED as SN BOLT REPLACEABLE

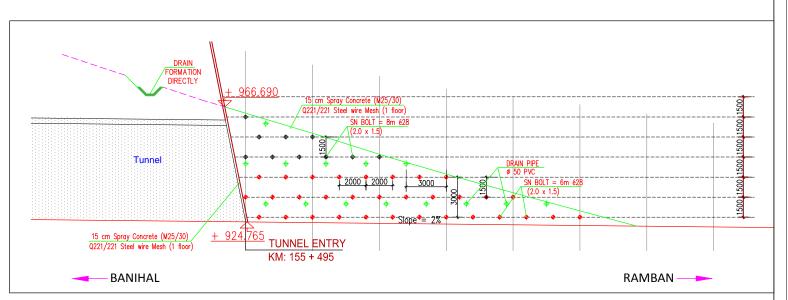
MAteriAl 1-BOLT

:Ø28mm TOR 2- WIRE MESH : Q221/221

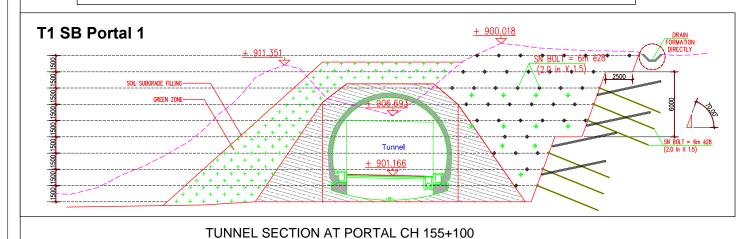
3-SPRAY CONCRETE : M20/25

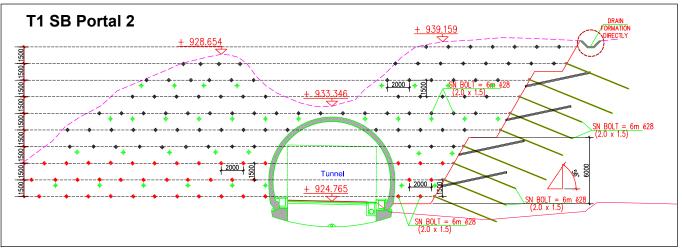
9-COORDINATES ARE IN THE UTM SYSTEM.





### LONG SECTION VIEW AT TUNNEL PORTAL CH 155+495





### **TUNNEL SECTION AT PORTAL CH 155+495**

Client :-NATIONAL HIGHWAYS AUTHORITY OF INDIA

Project Title :-

From Existing Ch.148+047 (NB) / Ch.150+056(SB) to Design. Ch.154+210 (NB)/ Ch.155+940(SB), (Section - I)

Drawing Name :-

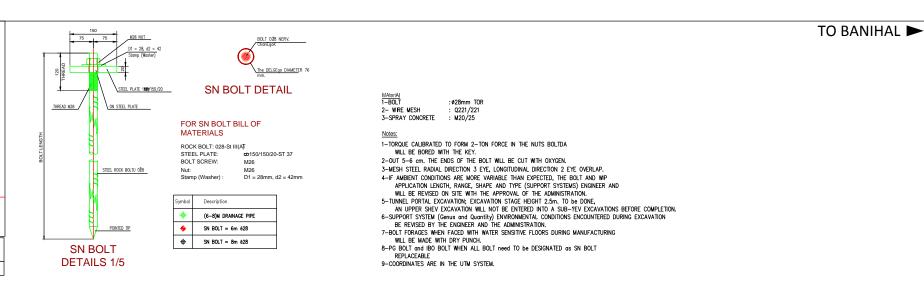
FINAL FEASIBILITY REPORT TUNNEL (AT1) CH:155 + 100.00-CH: 155 + 495 PORTAL EXCAVATION PLAN AND SECTIONS

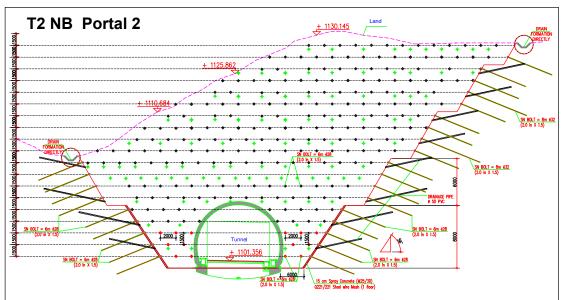
Intercontinental Consultants & Technocrats Pvt. Ltd.				
	in Joint Venture with			
ALTINOK Consulting Engineering Inc.			ring Inc.	
A-8, Green Park, New Delhi - 110016, India				
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R1	June - 2021	Initial Plan
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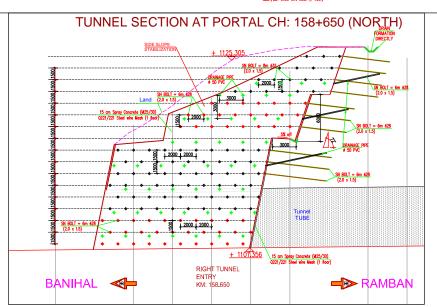
Revisions

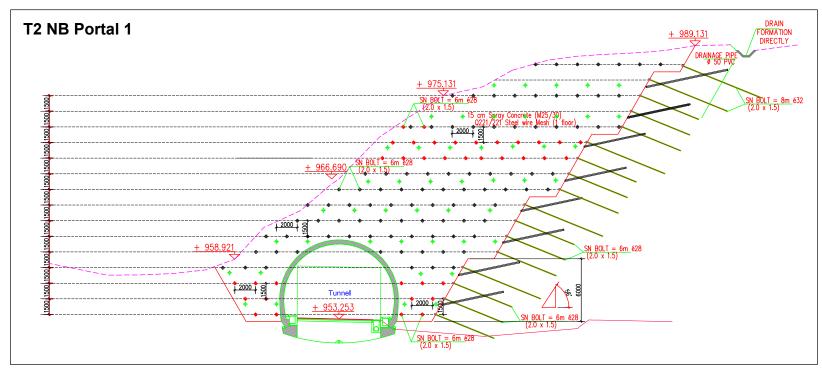
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LONG SECTION VIEW AT TUNNEL PORTAL





TUNNEL SECTION AT PORTAL CH: 154+415 (NORTH)

Project Director भारतेय राष्ट्रीय जनावर्ग अधिकरण, परिचाना इकई रामस्त National Highway Authority of India, P.W. Rambon Divisional Forest Afficer Ramban Forest Division

### LONG SECTION VIEW AT TUNNEL PORTAL

Client :-

TO RAMBAN

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NATIONAL HIGHWAYS **AUTHORITY OF INDIA** 

Project Title :-

Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.154+210 to Ch.158+675 (North Bound) and from Ch.155+940 to Ch.160+282 (South Bound) including Construction of Twin Tube Tunnel (Package-I) in the UT of Jammu & Kashmir on EPC Mode

**■** RAMBAN

### Drawing Name :-

FINAL FEASIBILITY REPORT TUNNEL (AT2) CH:154 + 415.00-CH: 158 + 650.00 (NORTH) PORTAL EXCAVATION PLAN AND SECTIONS

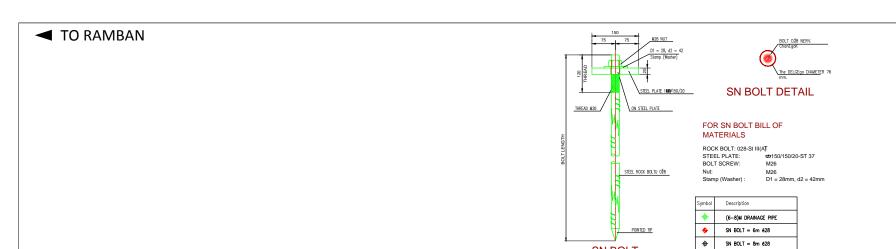
<b>A</b>	Intercontinental Consultants & Technocrats Pvt. Ltd
Tct.	in Joint Venture with
	ALTINOK Consulting Engineering Inc.
XLTINOK	A-8, Green Park, New Delhi - 110016, India

td., .	R1	June - 2021
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		Revisions

R0	March - 2021	Initial Plan
Revisions Date		Description
	Revisions	

Initial Plan

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YGP	(©) RC	SWB	Sandip Bhattacharjee	Drawing Title :- NHAI / RAM-BANI / NB/PD/ 01	Rev. RO
Prepared by	Designed by	Checked by	Approved by	Scale:- N.T.S	Sheet No :- 01 of 03



SN BOLT DETAILS 1/5

Notes:

1-Torque Calibrated to Form 2-ton Force in the Nuts Boltda
Will be Bored with the Key.

2-Out 5-6 cm. The Ends of the Bolt will be cut with Oxygen.

3-mesh steel radial direction 3 eye, Longitudinal direction 2 eye overlap.

4-if ambient conditions are more variable than expected, the Bolt and Wip
Application Length, Range, Shape and type (Support Systems) engineer and
Will be revised on site with the Approval of the Administration.

5-tunnel Portal excavation, excavation stage height 2.5m. to be done,
An upper shev excavation will not be entered into a sub-eye vecavations before completion.

6-support system (Genus and Quantity) environmental conditions encountered during excavation
be revised by the engineer and the administration.

7-Bolt foraces when faced with Jory Dunch.

8-pe Bolt and ibo Bolt when all Bolt need to be designated as SN Bolt
Replaceable
9-coordinates are in the Util System.

TO BANIHAL ►

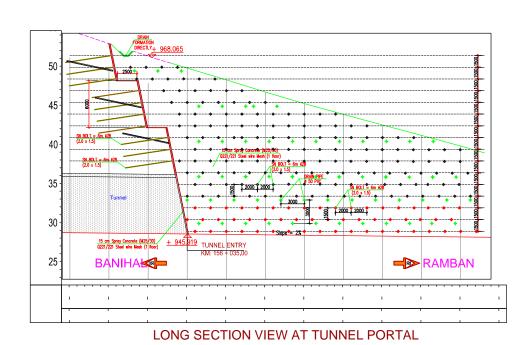
BOLT = 8m 632 2.0 x 1.5)

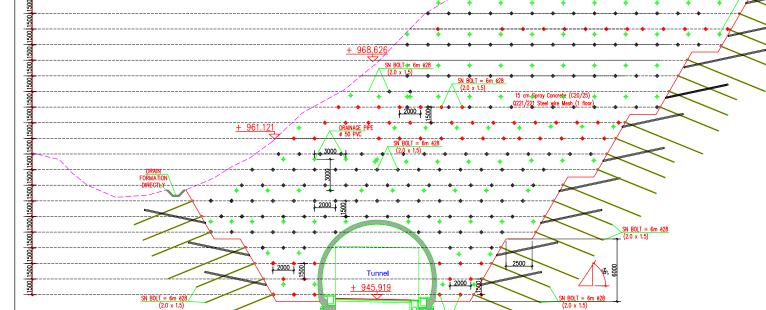
T2 SB Portal 1

Sheet No :- 03 of 03

Divisional Forest Ramban Forest Pwision

Ramban





TUNNEL SECTION AT PORTAL CH: 156+035 (SOUTH)

Project Director भारतीय राष्ट्रीय जजार्ज प्रधिकल्ल, परि. तम इकई रामधन National Highway Authority of India, P.W. Ramben

Client :-

NATIONAL HIGHWAYS **AUTHORITY OF INDIA** 

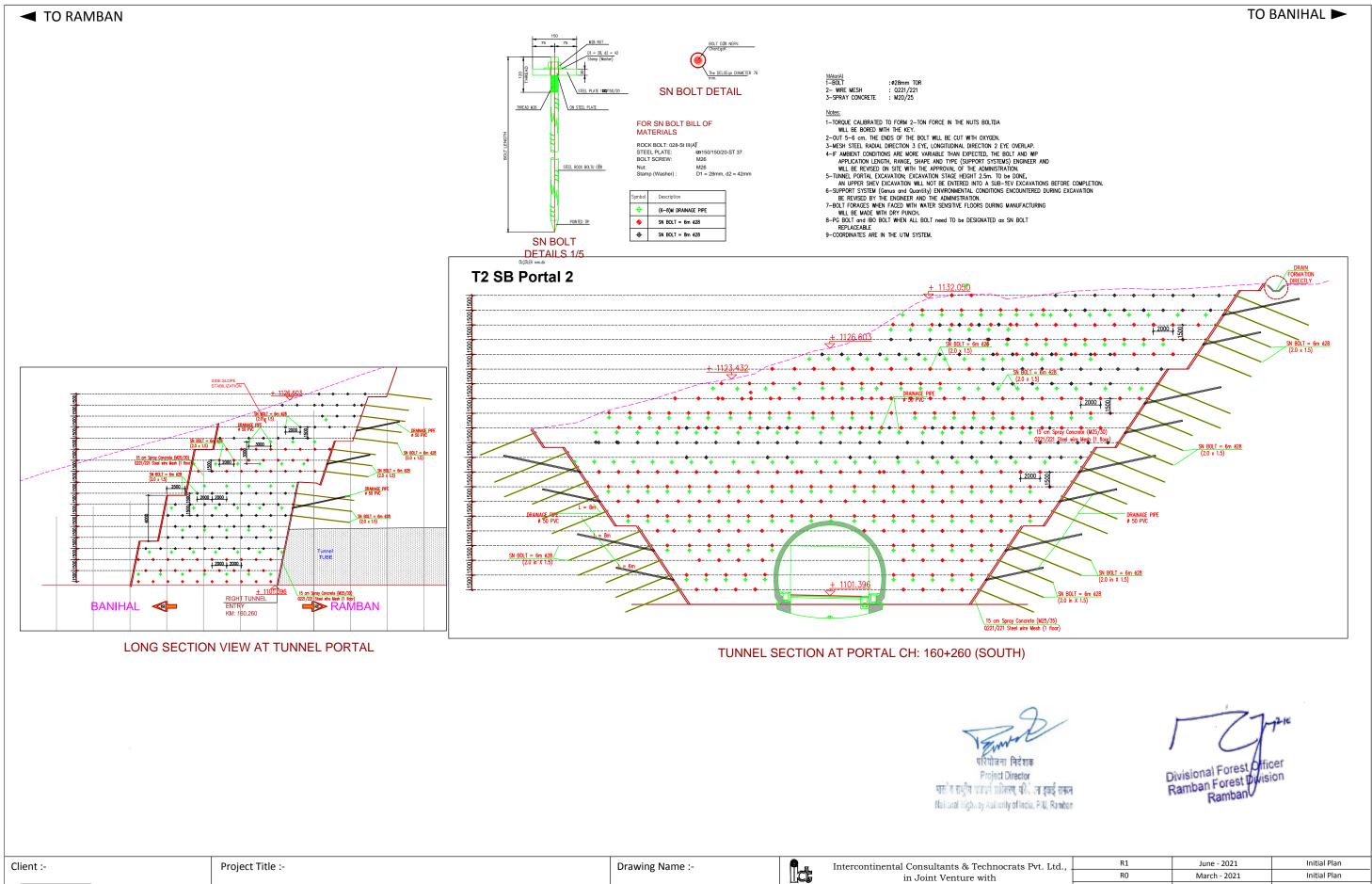
Project Title :-

Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.154+210 to Ch.158+675 (North Bound) and from Ch.155+940 to Ch.160+282 (South Bound) including Construction of Twin Tube Tunnel (Package-I) in the UT of Jammu & Kashmir on EPC Mode

Drawing Name :-

FINAL FEASIBILITY REPORT TUNNEL (AT2) CH:156 + 035.00 (SOUTH) PORTAL EXCAVATION PLAN AND SECTIONS

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	ALTINOK C	onsulting Engir	neering Inc.	Revisions	Date	Descript	ion
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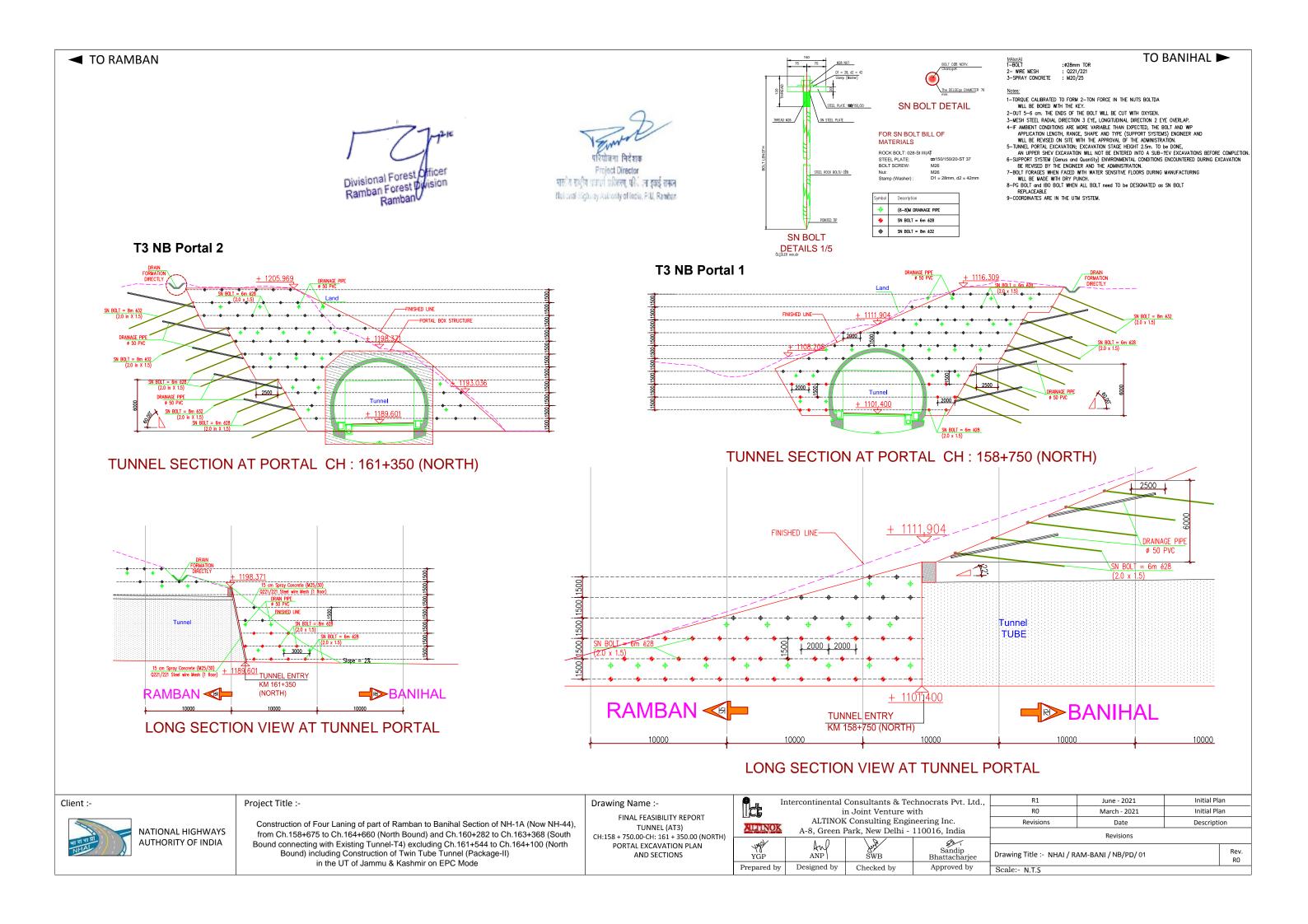


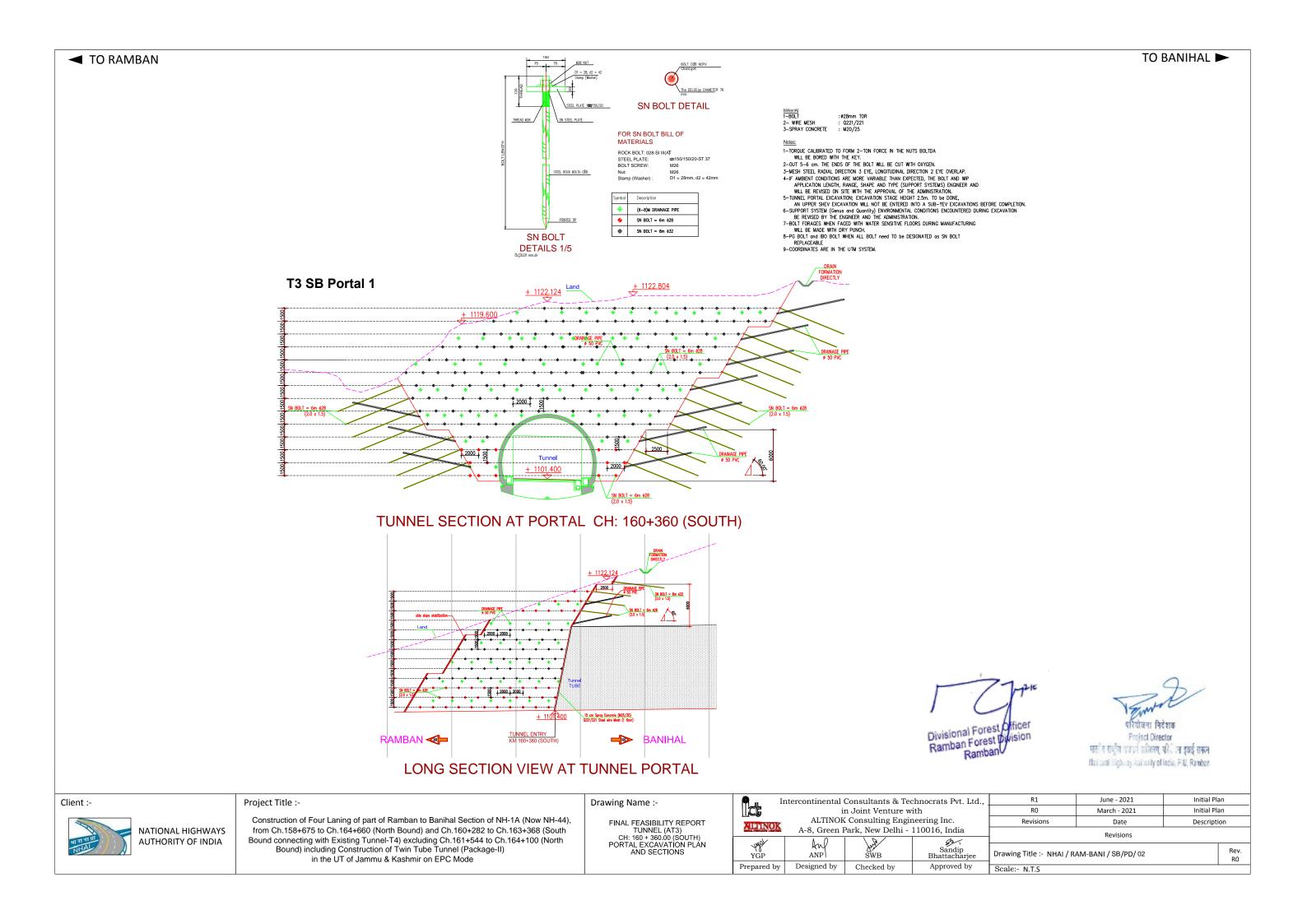
NATIONAL HIGHWAYS AUTHORITY OF INDIA

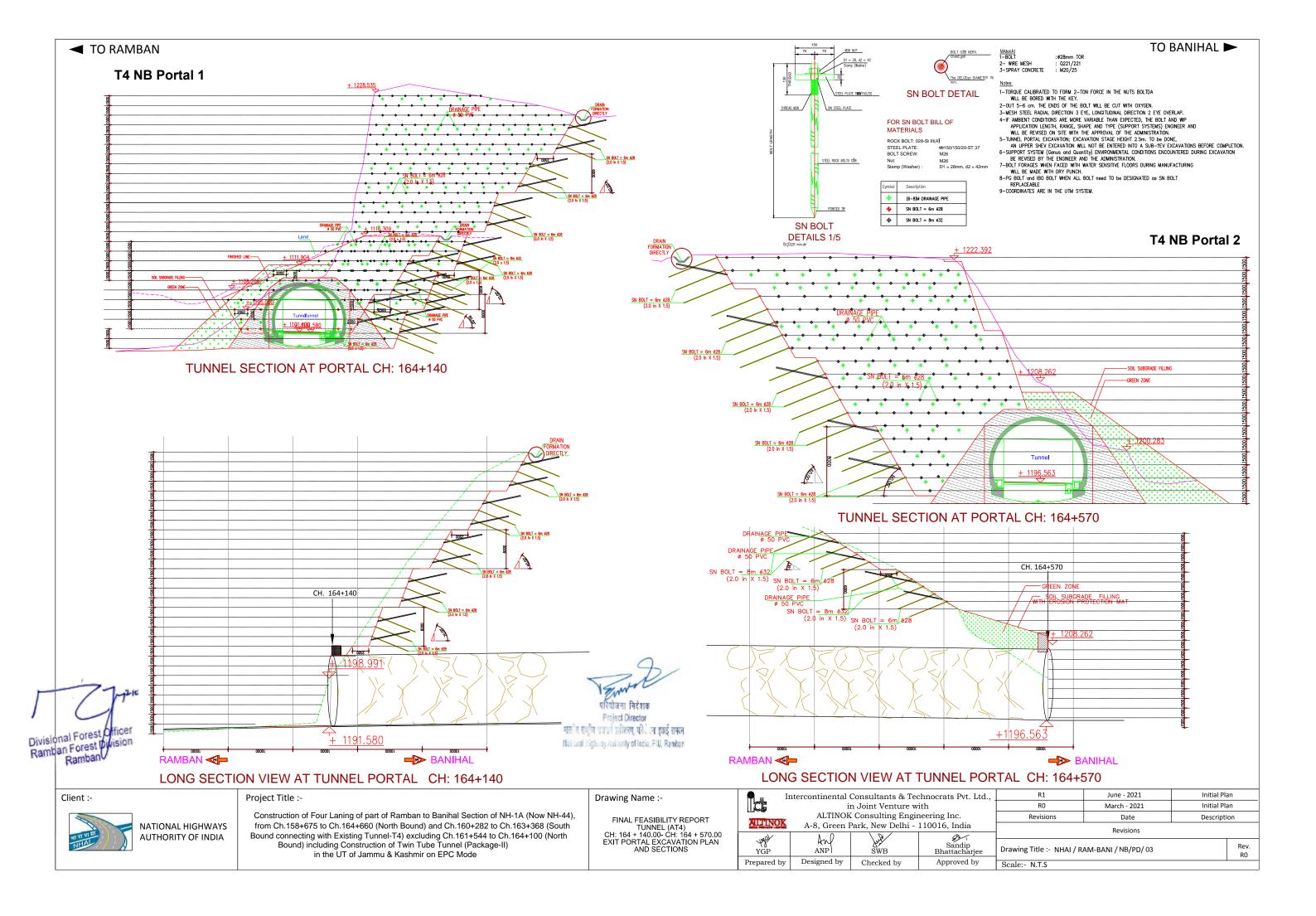
Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.154+210 to Ch.158+675 (North Bound) and from Ch.155+940 to Ch.160+282 (South Bound) including Construction of Twin Tube Tunnel (Package-I) in the UT of Jammu & Kashmir on EPC Mode

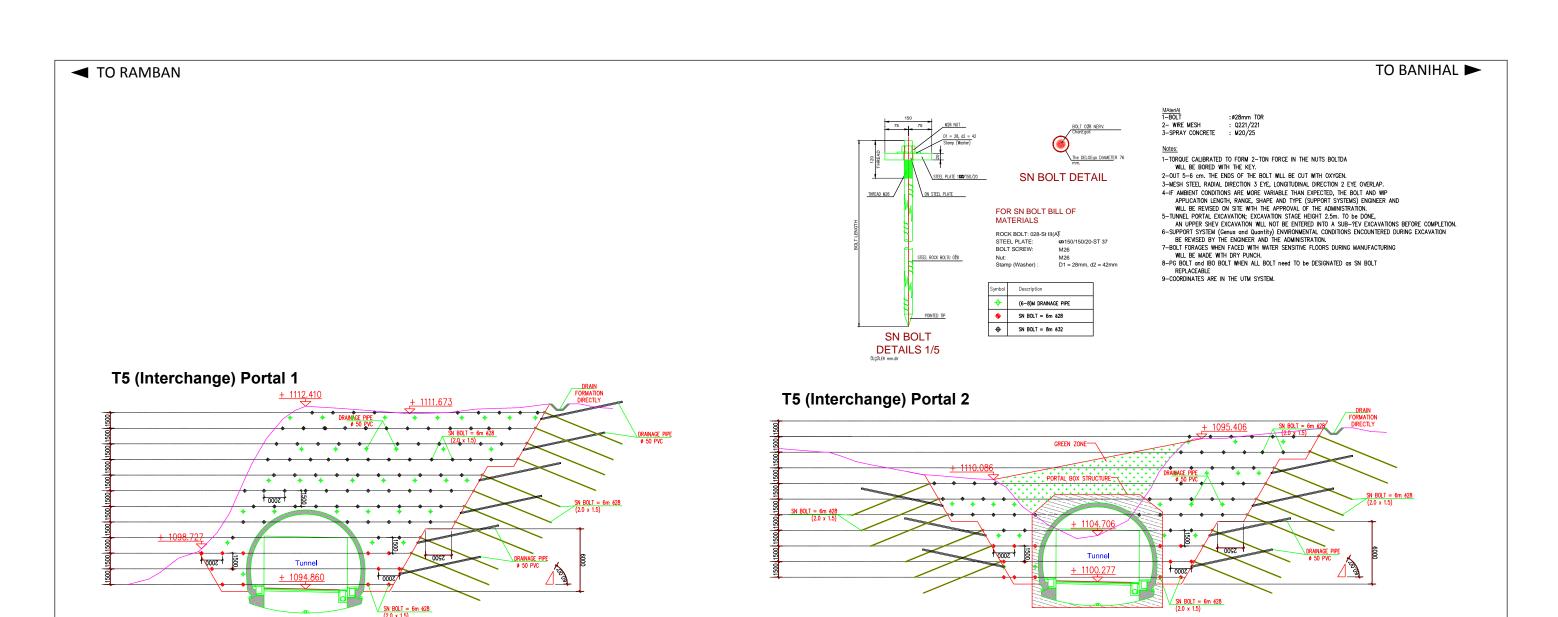
FINAL FEASIBILITY REPORT TUNNEL (AT2) CH: 160 + 260.00 (SOUTH) PORTAL EXCAVATION PLAN AND SECTIONS

Intercontinental Consultants & Technocrats Pvt. Ltd.,			R1	June - 2021	Initial Pl	an	
		Joint Venture w	,	RO	March - 2021	Initial Pl	an
ALTINOK Consulting Engineering Inc.				Revisions	Date	Descript	ion
A-8, Green Park, New Delhi - 110016, India					Revisions		
**	@	belle	<b>S</b>	Drawing Title :- NHAI / RA	AM-BANI / SB/PD/ 02		Rev.
YGP	RC	SWB	Sandip Bhattacharjee	,			R0
Prepared by	Designed by	Checked by	Approved by	Scale:- N.T.S		Sheet No :- I	02 of 03

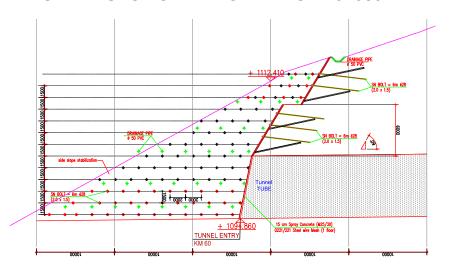






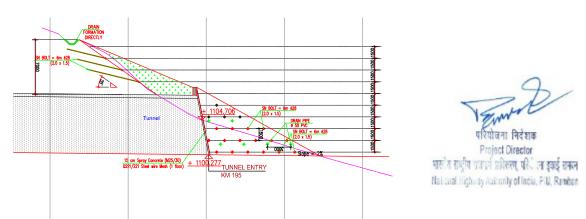


## TUNNEL SECTION AT PORTAL CH: 0+060



Divisional Forest Officer Ramban Forest Division Ramban

## TUNNEL SECTION AT PORTAL CH: 0+195



LONG SECTION VIEW AT TUNNEL PORTAL CH: 0+195

## LONG SECTION VIEW AT TUNNEL PORTAL CH: 0+060

Client :-



### Project Title :-

Construction of Four Laning of part of Ramban to Banihal Section of NH-1A (Now NH-44), from Ch.158+675 to Ch.164+660 (North Bound) and Ch.160+282 to Ch.163+368 (South Bound connecting with Existing Tunnel-T4) excluding Ch.161+544 to Ch.164+100 (North Bound) including Construction of Twin Tube Tunnel (Package-II) in the UT of Jammu & Kashmir on EPC Mode

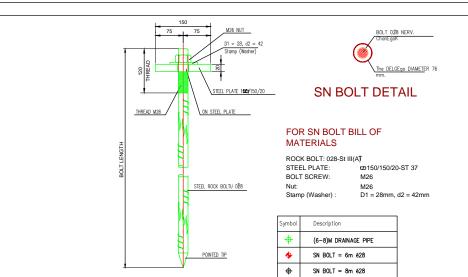
### Drawing Name :-

FINAL FEASIBILITY REPORT DIGDOL INTERCHANGE RAMP TUNNEL CH:-KM 0+060 - CH:0+195 PORTAL EXCAVATION PLAN AND SECTIONS

Let I	ntercontinental Consultants & Technocrats Pvt. Ltd., in Joint Venture with ALTINOK Consulting Engineering Inc.				
ALTINOK	A-8, Green Park, New Delhi - 110016, India				
Y9P YGP	ANP	SWB	Sandip Bhattacharjee		
Prepared by	Designed by	Checked by	Approved by		

R1	June - 2021	Initial Plan		
R0	March - 2021	Initial Plan		
Revisions	Date	Description		
Devisions				

Drawing Title :- NHAI / RAM-BANI / NB/PD/ 04	Rev. RO	
Scale:- NTS		

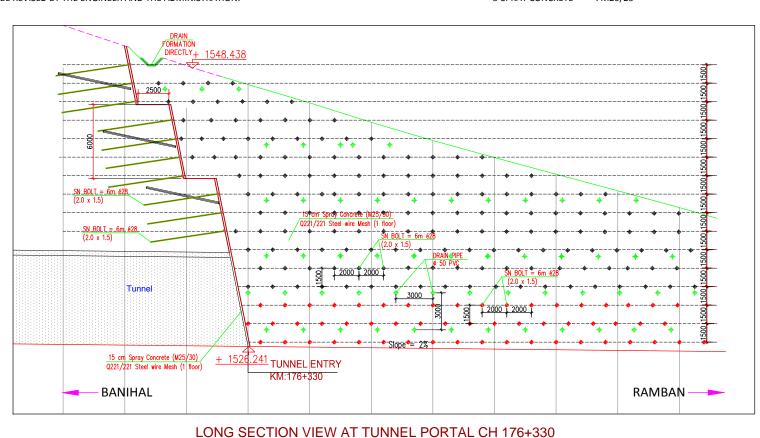


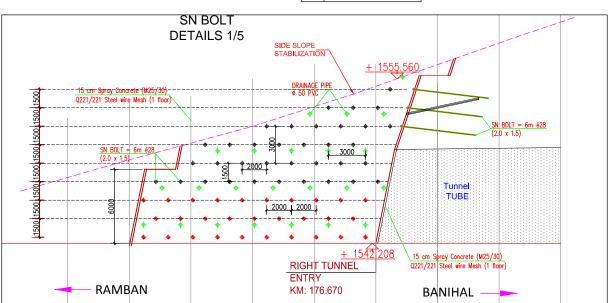
## Notes:

- 1-TORQUE CALIBRATED TO FORM 2-TON FORCE IN THE NUTS BOLTDA WILL BE BORED WITH THE KEY.
- 2-OUT 5-6 cm. THE ENDS OF THE BOLT WILL BE CUT WITH OXYGEN.
- 3-MESH STEEL RADIAL DIRECTION 3 EYE. LONGITUDINAL DIRECTION 2 EYE OVERLAP.
- 4-IF AMBIENT CONDITIONS ARE MORE VARIABLE THAN EXPECTED, THE BOLT AND WIP APPLICATION LENGTH, RANGE, SHAPE AND TYPE (SUPPORT SYSTEMS) ENGINEER AND WILL BE REVISED ON SITE WITH THE APPROVAL OF THE ADMINISTRATION.
- 5-TUNNEL PORTAL EXCAVATION; EXCAVATION STAGE HEIGHT 2.5m. TO be DONE,
- AN UPPER SHEV EXCAVATION WILL NOT BE ENTERED INTO A SUB-ŞEV EXCAVATIONS BEFORE COMPLETION. 6-SUPPORT SYSTEM (Genus and Quantity) ENVIRONMENTAL CONDITIONS ENCOUNTERED DURING EXCAVATION BE REVISED BY THE ENGINEER AND THE ADMINISTRATION.
- 7-BOLT FORAGES WHEN FACED WITH WATER SENSITIVE FLOORS DURING MANUFACTURING WILL BE MADE WITH DRY PUNCH.
- 8-PG BOLT and IBO BOLT WHEN ALL BOLT need TO be DESIGNATED as SN BOLT REPLACEABLE
  - MAteriAl

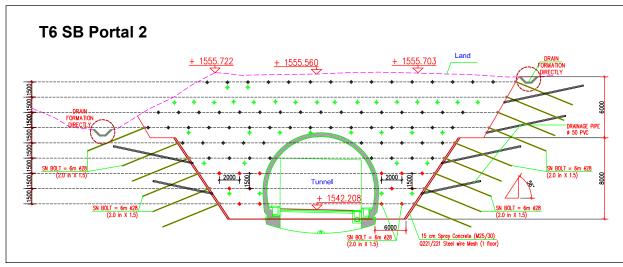
1-BOLT :Ø28mm TOR 2- WIRE MESH : Q221/221 3-SPRAY CONCRETE : M20/25

9-COORDINATES ARE IN THE UTM SYSTEM.





### LONG SECTION VIEW AT TUNNEL PORTAL CH 176.670



Project Title :-

FINAL FEASIBILITY REPORT

T6 SB Portal 1

TUNNEL (AT5) CH:176+670.00-CH: 176.330.00 PORTAL EXCAVATION PLAN AND SECTIONS

**TUNNEL SECTION AT PORTAL CH 176+330** Intercontinental Consultants & Technocrats Pvt. Ltd., in Joint Venture with ALTINOK Consulting Engineering Inc. XLTINOK A-8, Green Park, New Delhi - 110016, India

6000 SN BOLT = 6m 628 (2.0 in X 1.5)

2000

R1	June - 2021	Initial Plan		
RO	February - 2021	Initial Plan		
Revisions	Date	Description		
Revisions				

Divisional Forest Ramban Forest Ramban

भारते संद्रीय प्रजानी प्रक्रित्तम्, परितान इकई सकत

Sandip Bhattacharjee Rev. R0 Drawing Title :- NHAI / RAM - BAIN / PD / 01 YGP ANP Prepared by Designed by Checked by Approved by Scale - N.T.S.

# TUNNEL SECTION AT PORTAL CH 176+670

NATIONAL HIGHWAYS **AUTHORITY OF INDIA** 

Client :-

From Design Ch.171+855 (NB)/ Ch.173+638 (SB) to Existing

Ch.180+300 (NB)/ Ch.181+700 (SB), (Section - II)

Drawing Name :-