

CLIENT: –



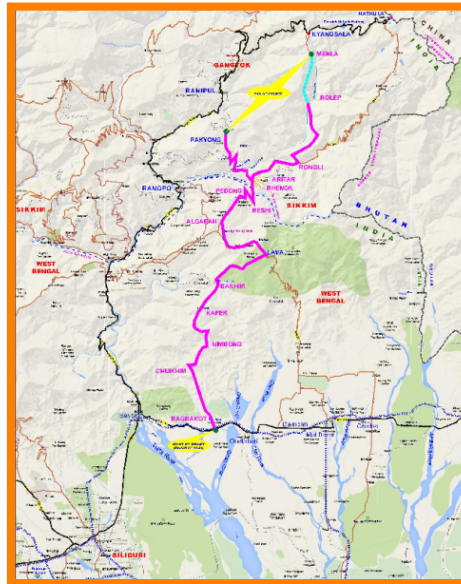
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
(Ministry of Road Transport & Highways)

Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbong-Kafer-Bakhim-Algarah-Rhenock in the State of West Bengal and From Rhenock-Rorathang-Pakyong along with Spur From Aritar-Relop-Menla in the State of Sikkim.

DRAFT DETAILED PROJECT REPORT

PACKAGE-V-B (I), PART OF KAFER TO RESHI BORDER
(Km 76+350 To Km 79+700)

DRAWING VOLUME:-HIGHWAY - (PLAN & PROFILE)



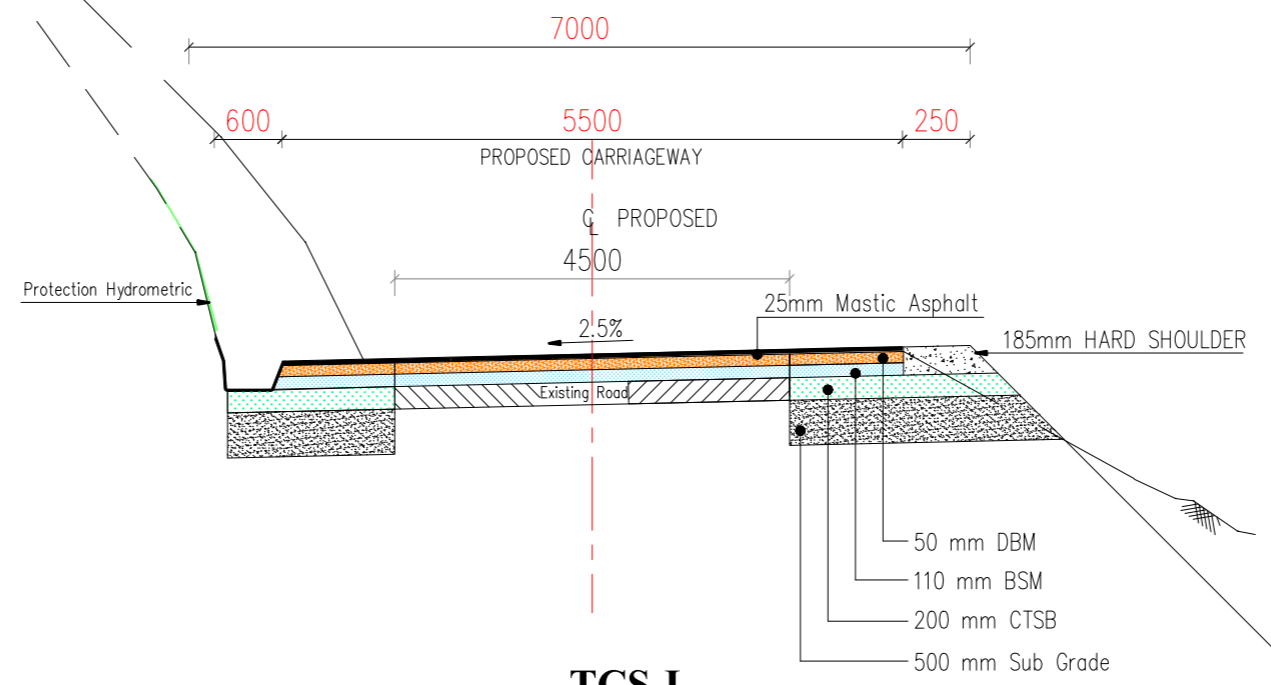
DECEMBER-2020

CONSULTANT :-



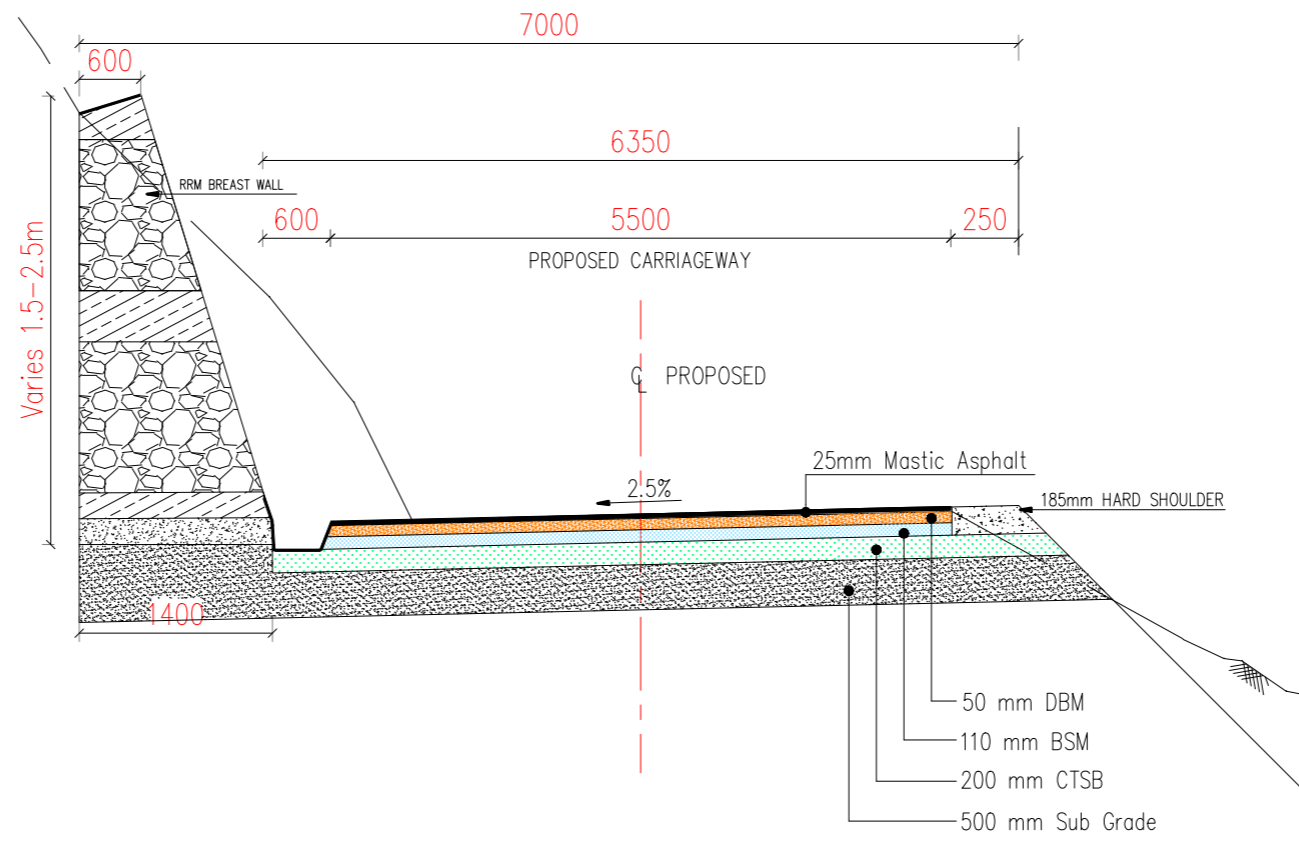
SA INFRASTRUCTURE CONSULTANTS PVT. LTD.

In Association with
Specialized Engineering Service Pvt. Ltd.
1101A, 11th Floor, Tower A-II, Corporate Park,
Plot No. 7A/1, Sector-142, Noida 201301, Uttar Pradesh.



TCS-I
Intermediate Lane Concentric Widening

		Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)		Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbong-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Aritar-Rolep-Menla in the State of Sikkim		DATE : Dec 2020		Revision R0		PACKAGE-5 KAFER TO RHENOCK TYPICAL CROSS SECTION	
		Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. In Association with Specialized Engineering Service Pvt. Ltd. 1101A, 11th Floor, Tower A-II, Corporate Park, Plot No. 7A/1, Sector-142, Noida 201301, Uttar Pradesh.				DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY		
RO	Sep 2017	Final Feasibility Report									
RO	Nov 2016	Draft Feasibility Report									
RO	Dec 2014	Linear Plan									
REV	DATE	DESCRIPTION OF REVISIONS		INITIALS		SCALE : -NTS				Dwg. No. :- SAICPL-SESPL/NHIDCL/WB-SKM/TCS/ 1	



TCS-II
Intermediate Lane (New)

Breast Wall Height 1.5-2.5m

REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
R0	Sep 2017	Final Feasibility Report	
R0	Nov 2016	Draft Feasibility Report	
R0	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
(Ministry of Road Transport & Highways)

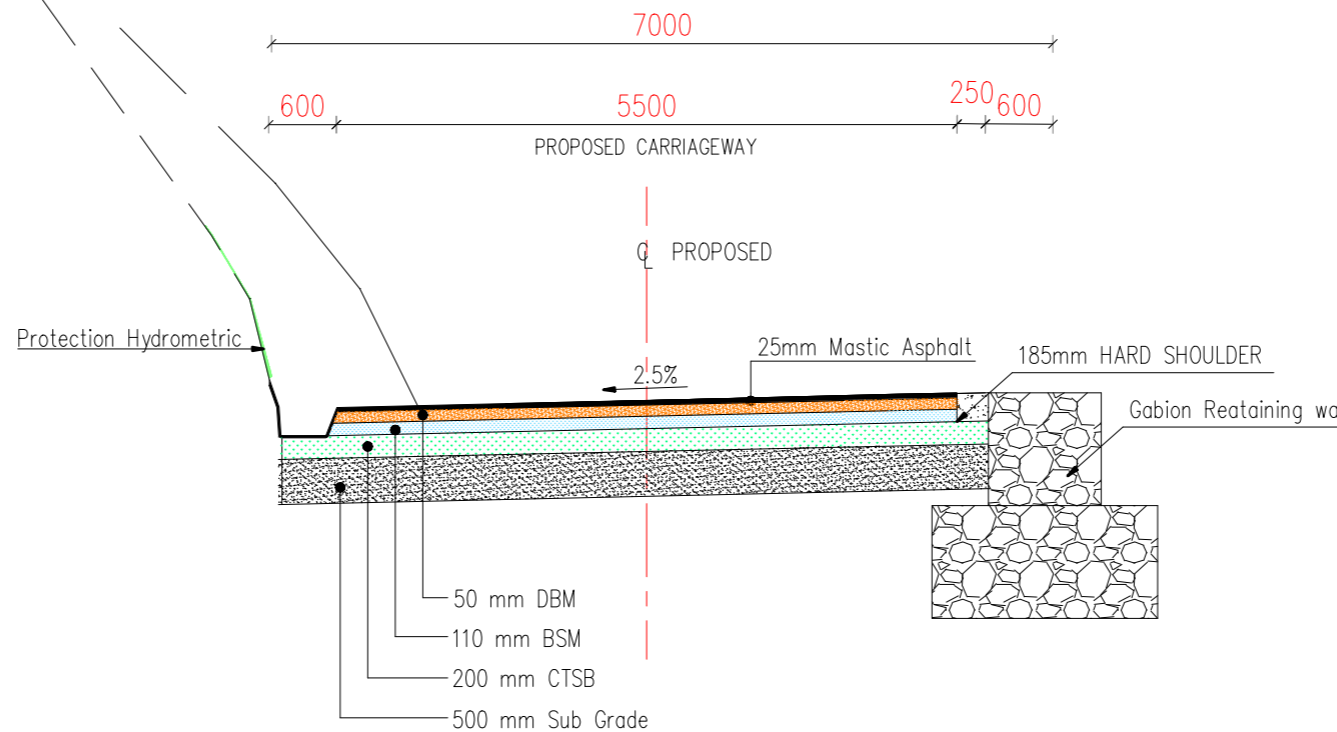
Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
In Association with
Specialized Engineering Service Pvt. Ltd.
1101A, 11th Floor, Tower A-II, Corporate Park,
Plot No. 7A/1, Sector-142,
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Project :
Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbong-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Aritar-Rolep-Menla in the State of Sikkim

DATE : Dec 2020	Revision	R0
DESIGNED BY	DRAWN BY	CHECKED BY
Vijay Gupta	Naresh	Vijay Gupta
		Sanjay Shukla
APPROVED BY		
SCALE: -NTS		

PACKAGE-5
KAFER TO RHENOCK
TYPICAL CROSS SECTION

Dwg. No. :- SAICPL-SESPL/NHIDCL/WB-SKM/TCS/ 2



TCS-III
Intermediate Lane Concentric Widening
 Retaining Wall

REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
R0	Sep 2017	Final Feasibility Report	
R0	Nov 2016	Draft Feasibility Report	
R0	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
 (Ministry of Road Transport & Highways)

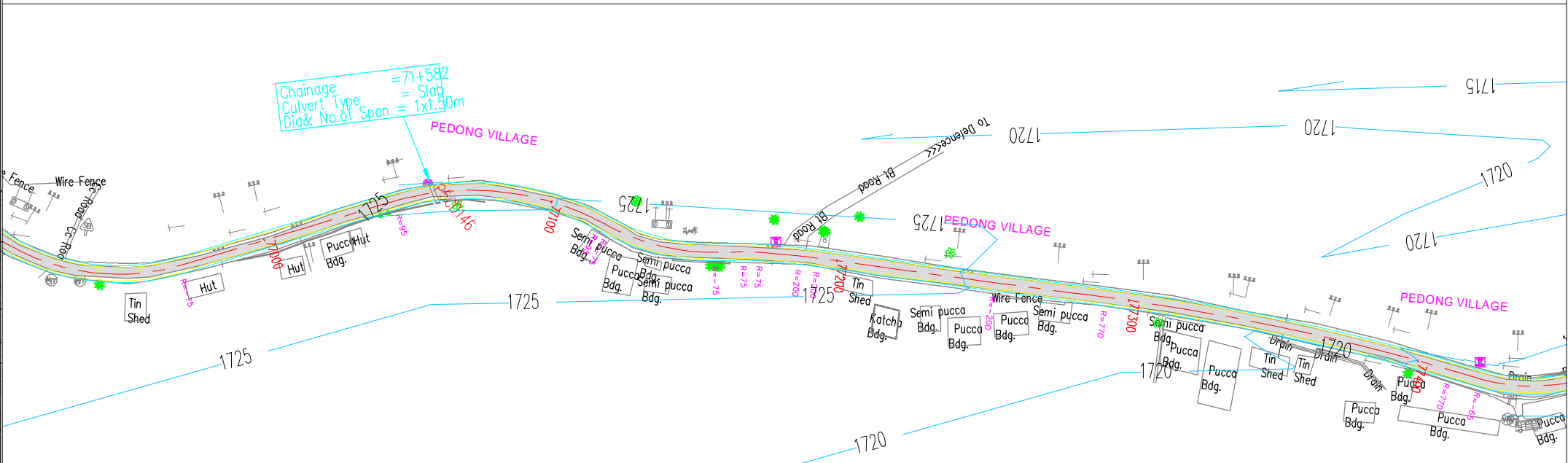
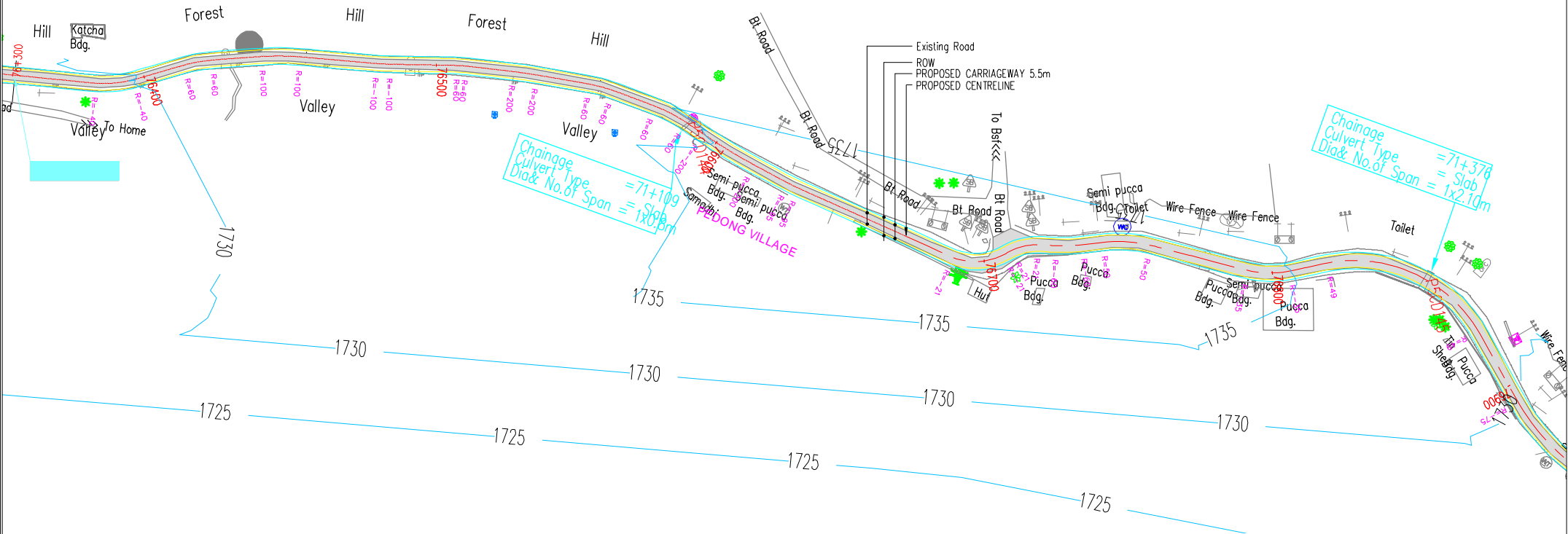
Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
 In Association with
 Specialized Engineering Service Pvt. Ltd.
 1101A, 11th Floor, Tower A-II, Corporate Park,
 Plot No. 7A/1, Sector-142,
 Noida 201301, Uttar Pradesh.

Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbong-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Aritar-Rolep-Menla in the State of Sikkim

DATE : Dec 2020		Revision R0	
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
Vijay Gupta	Naresh	Vijay Gupta	Sanjay Shukla
SCALE: -NTS			

PACKAGE- 5
 KAFER TO RHENOCK
 TYPICAL CROSS SECTION

Dwg. No. :- SAICPL-SESPL/NHIDCL/WB-SKM/TCS/ 3



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. Specialized Engineering Service Pvt. Ltd. 110/A, 11th Floor, Tower A-II, Corporate Park, Plot No. 7A/1, Sector-142, Gurgaon, Haryana

Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbung-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Arirah-Rolep-Menla in the State of Sikkim

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
Vijay Gupta	Naresh	Vijay Gupta	Sanjay Shukla

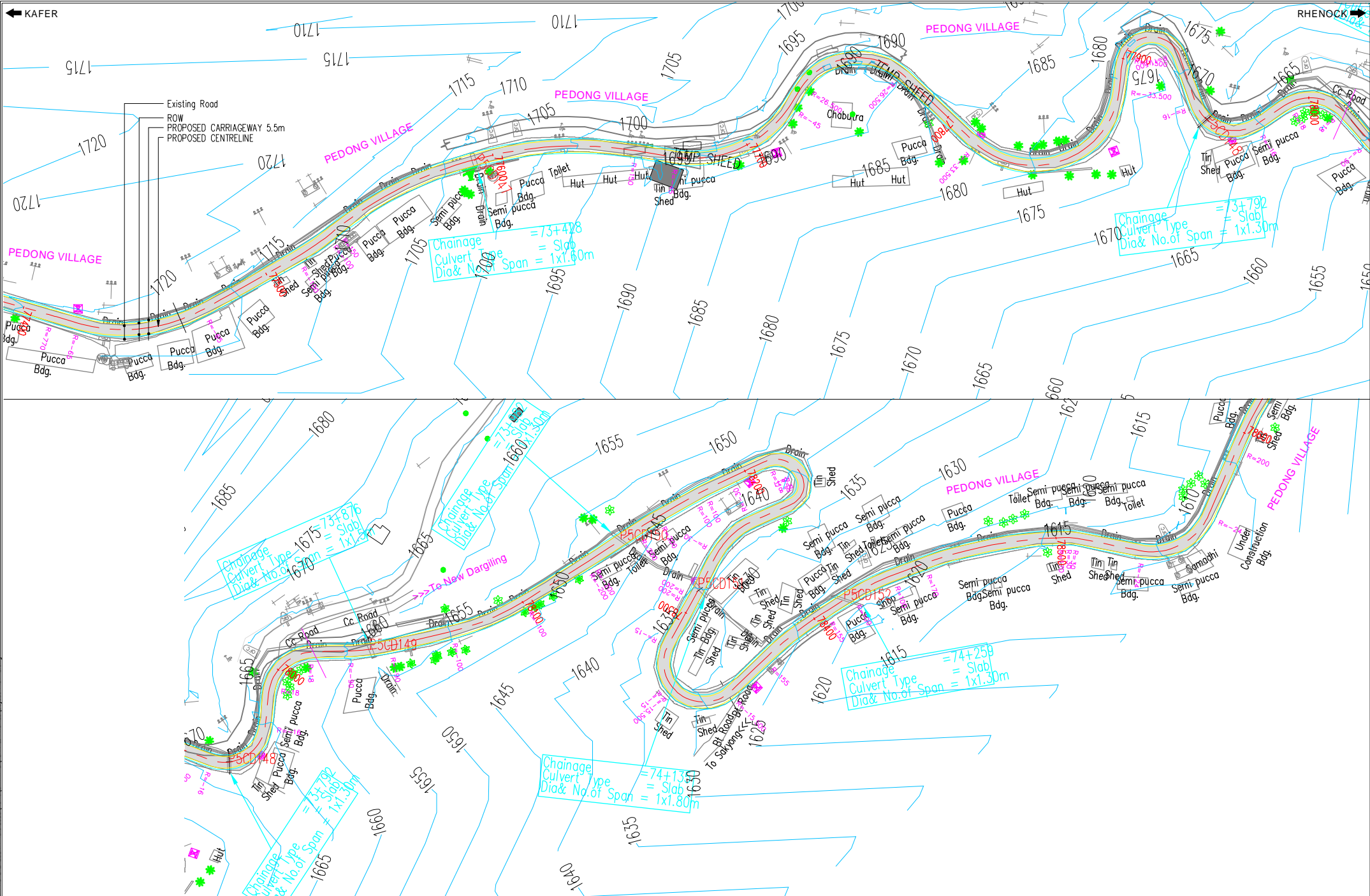
DATE : December 2020

Revision: RO

SCALE: - H=1:750, V=1:100, For A3 Paper Size

PACKAGE- 5B (I)
 KAFER TO RHENOCK (Km 76+350 To Km 79+700)
 PLAN & PROFILE
 (PLAN - Km 76+350 To Km 77+400)

Dwg. No. :- SAICPL-SESP/ NHIDCL/WB-SKM/P&P/01



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. Specialized Engineering Service Pvt. Ltd. 110/A, 11th Floor, Tower A-II, Corporate Park, Plot No. 77/1, Sector-142, Noida-201305, Uttar Pradesh.

Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimbond-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Aritar-Rolep-Menla in the State of Sikkim

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
Vijay Gupta	Noresh	Vijay Gupta	Sanjay Shukla

DATE : December 2020

Revision : RD

SCALE : - H=1:750, V=1:100, For A3 Paper Size

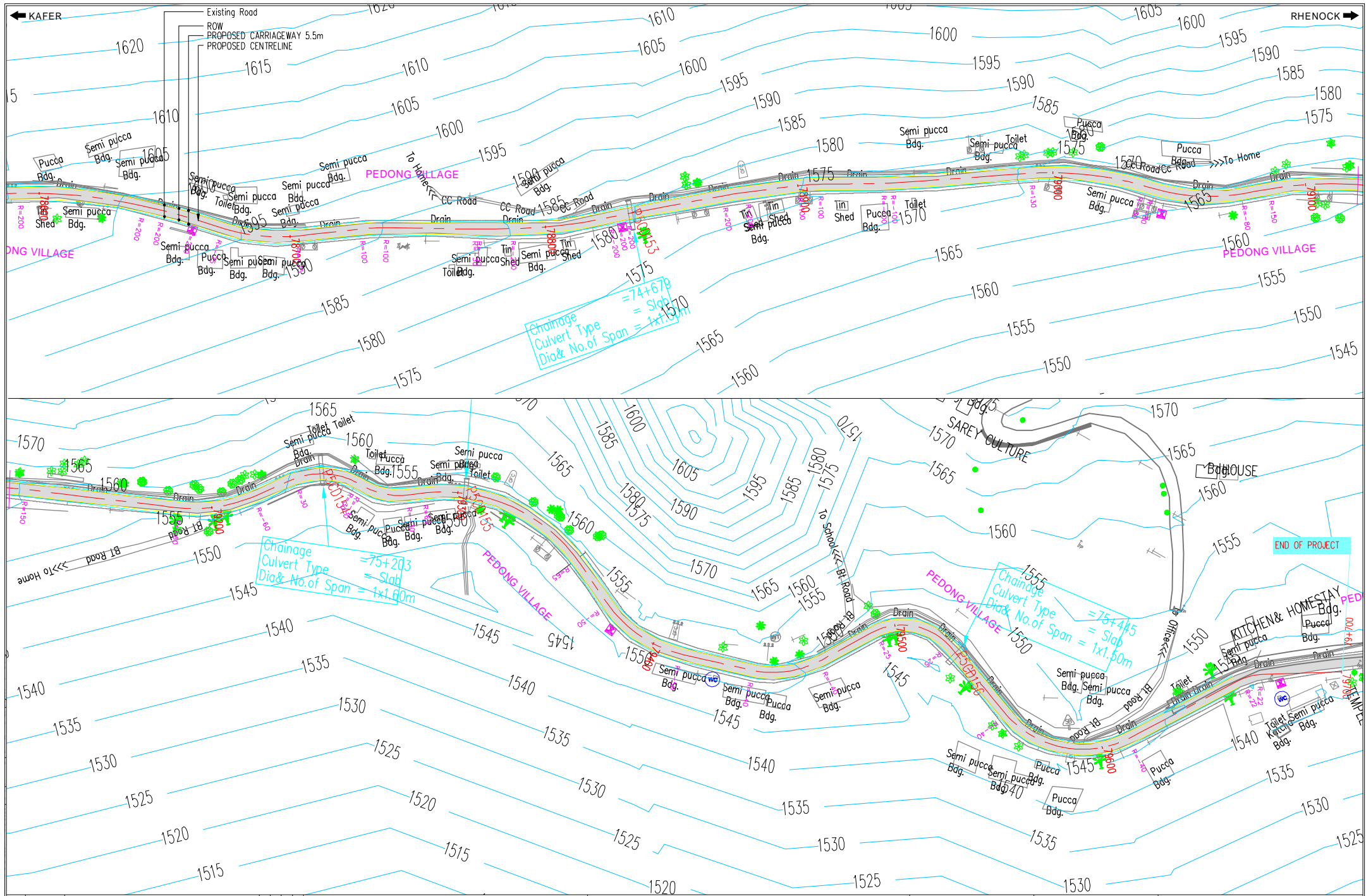
PACKAGE- 5B (I)

KAFER TO RHENOCK (Km 76+350 To Km 79+700)

PLAN & PROFILE

(PLAN - Km 77+400 To Km 78+600)

Dwg. No. :- SAICPL-SESP/L/NHIDCL/WB-SKM/P&P/01



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. Specialized Engineering Service Pvt. Ltd. 110/A, 11th Floor, Tower A-II, Corporate Park, Plot No. 77/1, Sector-142, Gurgaon, Haryana

Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chuikhim-Nimborng-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Arirah-Rolep-Menia in the State of Sikkim

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
Vijay Gupta	Naresh	Vijay Gupta	Sanjay Shukla

DATE : December 2020

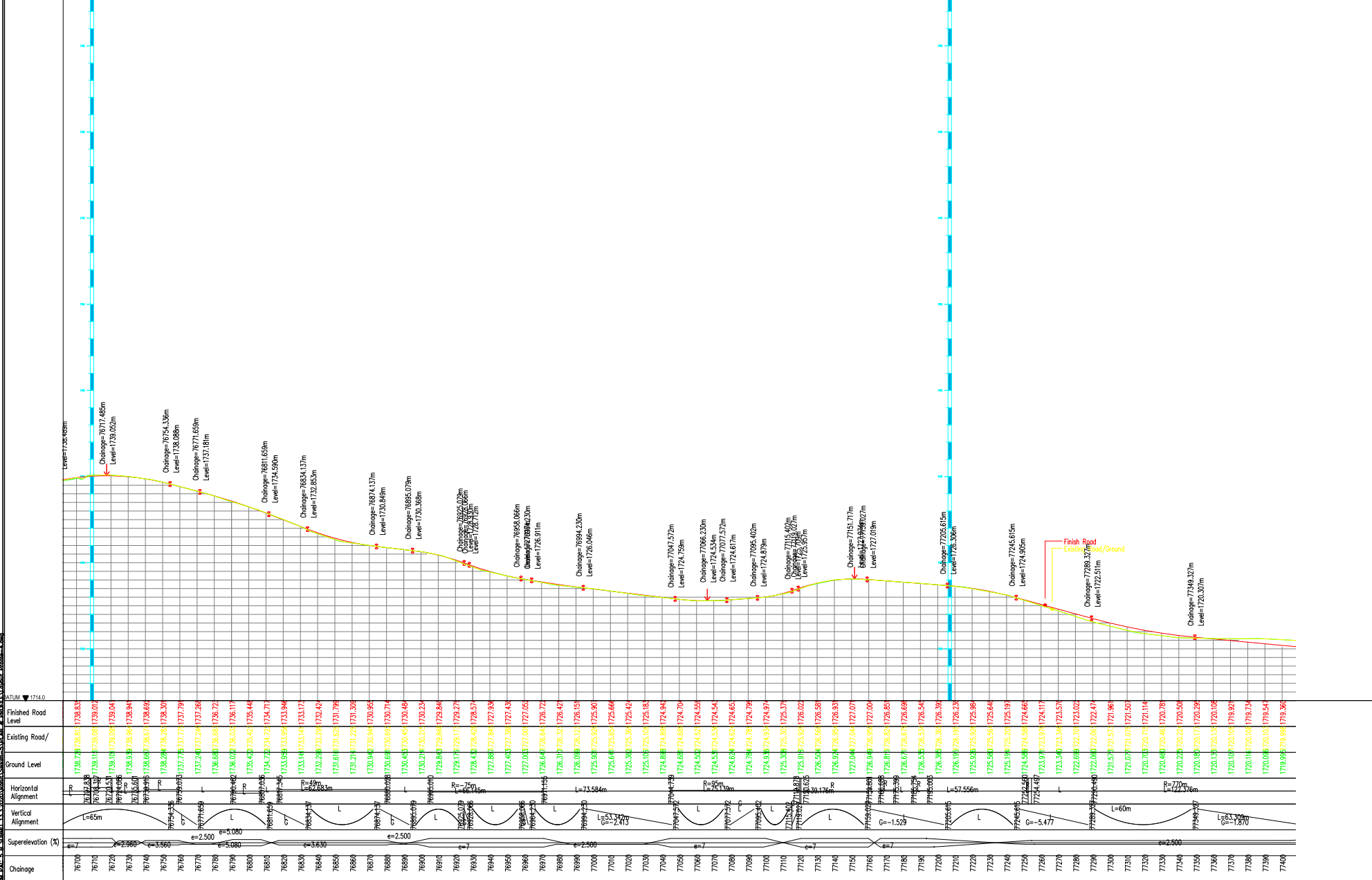
Revision RD

SCALE: - H=1:750, V=1:100, For A3 Paper Size

PACKAGE- 5B (I)

KAFER TO RHENOCK (Km 76+350 To Km 79+700) PLAN & PROFILE (PLAN - Km 78+600 To Km 79+700)

Dwg. No. :- SAICPL-SESP/L/NHIDCL/WB-SKM/P&P/03



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
(Ministry of Road Transport & Highways)

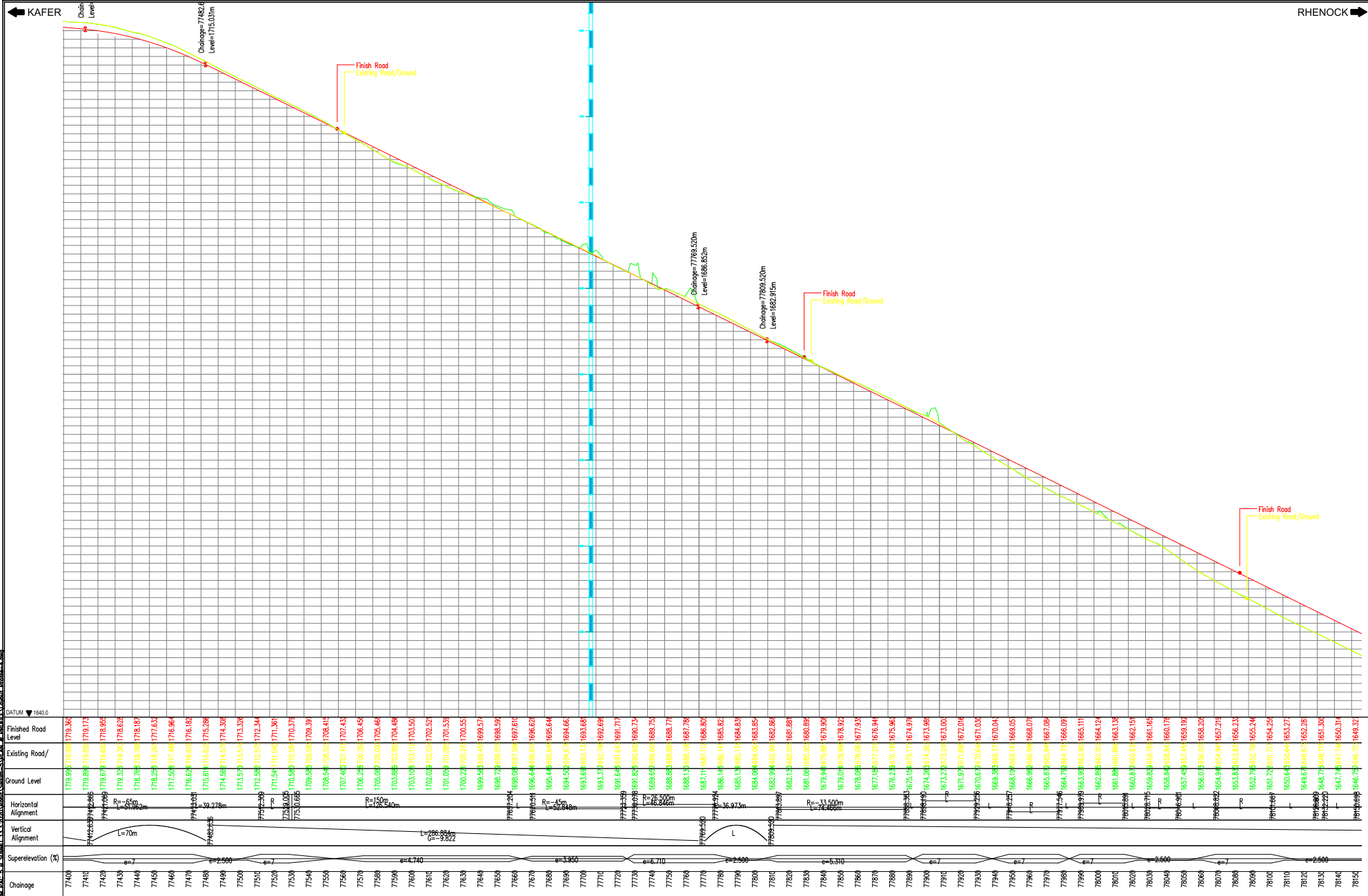
Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
In Association with
Specialized Engineering Services Pvt. Ltd.
110/A, 11th Floor, Tower A-III, Corporate Park,
Plot No. 2A/1, Sector-142,
Noida-201305, Uttar Pradesh.

Project :
Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chukhim-Nimbong-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Artar-Rolep-Menla in the State of Sikkim

DATE :	December 2020	Revision	RO
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Willy Gato	Noreah	Willy Gato	Sanjoy Shukla

SCALE: -
H=1:2000,
V=1:100,) For A3 Paper Size

PACKAGE- 5B (I)
KAFER TO RHENOCK (Km76+350 To Km 79+700)
PLAN & PROFILE
Profile-(Km 76+680 To Km 77+400)
Dwg. No. :- SA/CL-SESPL/NHIDCL/WB-SKM/P&P/61b



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
(Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
Specialized Engineering Services Pvt. Ltd.
110/A, 11th Floor, Tower A-II, Corporate Park,
Plot No. 2A/1, Sector-142,
Noida-201301, Uttar Pradesh.

Project : Consultancy for Preparation of Feasibility Report cum Preliminary Design for Alternative Highway to Gangtok in Sikkim via Bagrakot-Chukhim-Nimbung-Kafer-Bakhim-Algarah-Rhenok in the State of West Bengal and From Rhenok-Rorathang-Pakyong along with Spur From Artar-Rolep-Menla in the State of Sikkim

DATE : December 2020	Revision	RO
DESIGNED BY Willy Gato	DRAWN BY Noreah	CHECKED BY Willy Gato
APPROVED BY Sanjay Shukla		

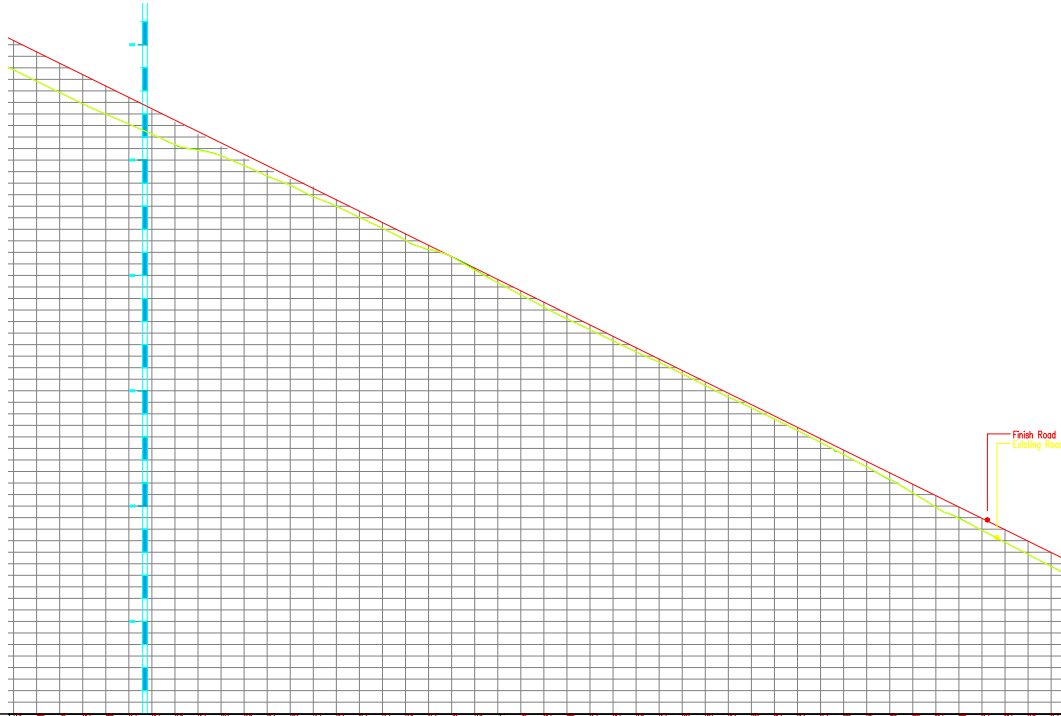
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PACKAGE- 5B (I)
KAFER TO RHENOCK (Km76+350 To Km 79+700)
PLAN & PROFILE
Profile-(Km 77+400 To Km 78+150)

Dwg. No. :- SA/CP-SESPL/NH/DCL/WB-SKM/P&P/02a

← KAFER

RHENOCK →



Stationing	Finished Road Level	Existing Road/	Ground Level	Horizontal Alignment	Vertical Alignment	Superelevation (%)	Chaining
78150	16463.32	16460.75	16460.75	Horizontal	Vertical	0	
78160	16463.34	16461.44	16461.44	Horizontal	Vertical	0	
78170	16463.36	16462.13	16462.13	Horizontal	Vertical	0	
78180	16463.38	16462.82	16462.82	Horizontal	Vertical	0	
78190	16463.40	16463.51	16463.51	Horizontal	Vertical	0	
78200	16463.42	16464.20	16464.20	Horizontal	Vertical	0	
78210	16463.44	16464.89	16464.89	Horizontal	Vertical	0	
78220	16463.46	16465.58	16465.58	Horizontal	Vertical	0	
78230	16463.48	16466.27	16466.27	Horizontal	Vertical	0	
78240	16463.50	16466.96	16466.96	Horizontal	Vertical	0	
78250	16463.52	16467.65	16467.65	Horizontal	Vertical	0	
78260	16463.54	16468.34	16468.34	Horizontal	Vertical	0	
78270	16463.56	16469.03	16469.03	Horizontal	Vertical	0	
78280	16463.58	16469.72	16469.72	Horizontal	Vertical	0	
78290	16463.60	16470.41	16470.41	Horizontal	Vertical	0	
78300	16463.62	16471.10	16471.10	Horizontal	Vertical	0	
78310	16463.64	16471.79	16471.79	Horizontal	Vertical	0	
78320	16463.66	16472.48	16472.48	Horizontal	Vertical	0	
78330	16463.68	16473.17	16473.17	Horizontal	Vertical	0	
78340	16463.70	16473.86	16473.86	Horizontal	Vertical	0	
78350	16463.72	16474.55	16474.55	Horizontal	Vertical	0	
78360	16463.74	16475.24	16475.24	Horizontal	Vertical	0	
78370	16463.76	16475.93	16475.93	Horizontal	Vertical	0	
78380	16463.78	16476.62	16476.62	Horizontal	Vertical	0	
78390	16463.80	16477.31	16477.31	Horizontal	Vertical	0	
78400	16463.82	16478.00	16478.00	Horizontal	Vertical	0	
78410	16463.84	16478.69	16478.69	Horizontal	Vertical	0	
78420	16463.86	16479.38	16479.38	Horizontal	Vertical	0	
78430	16463.88	16480.07	16480.07	Horizontal	Vertical	0	
78440	16463.90	16480.76	16480.76	Horizontal	Vertical	0	
78450	16463.92	16481.45	16481.45	Horizontal	Vertical	0	
78460	16463.94	16482.14	16482.14	Horizontal	Vertical	0	
78470	16463.96	16482.83	16482.83	Horizontal	Vertical	0	
78480	16463.98	16483.52	16483.52	Horizontal	Vertical	0	
78490	16464.00	16484.21	16484.21	Horizontal	Vertical	0	
78500	16464.02	16484.90	16484.90	Horizontal	Vertical	0	
78510	16464.04	16485.59	16485.59	Horizontal	Vertical	0	
78520	16464.06	16486.28	16486.28	Horizontal	Vertical	0	
78530	16464.08	16486.97	16486.97	Horizontal	Vertical	0	
78540	16464.10	16487.66	16487.66	Horizontal	Vertical	0	
78550	16464.12	16488.35	16488.35	Horizontal	Vertical	0	
78560	16464.14	16489.04	16489.04	Horizontal	Vertical	0	
78570	16464.16	16489.73	16489.73	Horizontal	Vertical	0	
78580	16464.18	16490.42	16490.42	Horizontal	Vertical	0	
78590	16464.20	16491.11	16491.11	Horizontal	Vertical	0	
78600	16464.22	16491.80	16491.80	Horizontal	Vertical	0	

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Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. (Specialized Engineering Services Pte. Ltd. 1101A, 11th Floor, Tower A-II, Corporate Park, Phase No. 2A, Sector 42, Gurgaon, Haryana, India)

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DATE	December 2020	Revision	RO
DESIGNED BY	WV Saha	CHECKED BY	Naresh
DRAWN BY	WV Saha	APPROVED BY	Sanjay Shukla

SCALE: - H=1:2000, V=1:100, For A3 Paper Size

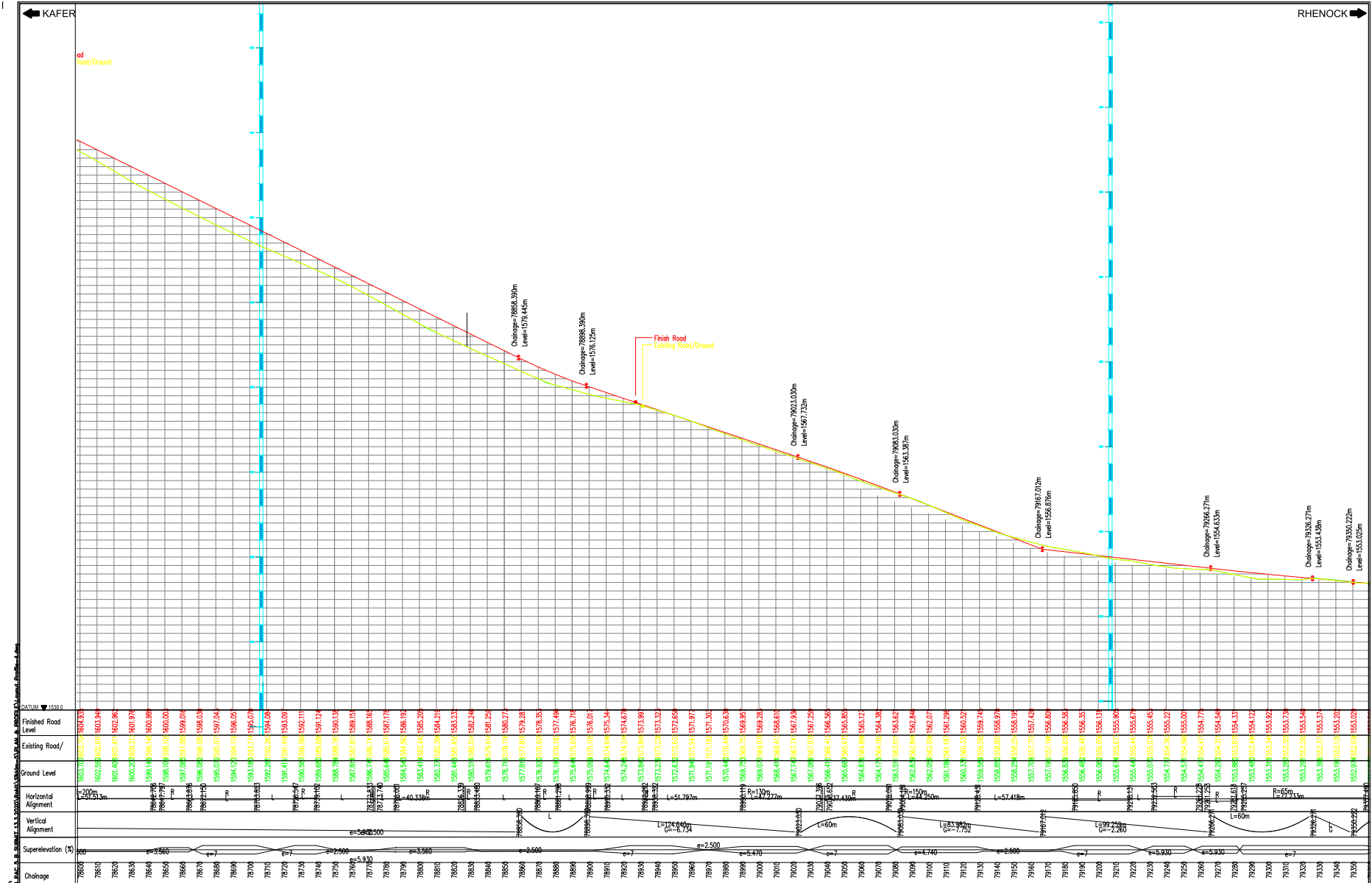
PACKAGE- 5B (I)

KAFER TO RHENOCK (Km76+350 To Km 79+700)

PLAN & PROFILE

Profile-(Km 78+150 To Km 78+600)

Dwg. No. :- SAICPL-SESP/NIHDC/16-SKM/P&P/02b



REV	DATE	DESCRIPTION OF REVISIONS	INITIALS
RO	Sep 2017	Final Feasibility Report	
RO	Nov 2016	Draft Feasibility Report	
RO	Dec 2014	Linear Plan	

DATE	TIME	DESCRIPTION
11/12/2020	12:16pm	Final Design
11/12/2020	12:16pm	Final Design
11/12/2020	12:16pm	Final Design

Client : NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport & Highways)

Consultant : SA INFRASTRUCTURE CONSULTANTS PVT. LTD. (In Association with Specialized Engineering Services Pvt. Ltd. 1101A, 11th Floor, Tower A-II, Corporate Park, Park Road, Sector 42, Gurgaon, Haryana, India. Phone: 29190201, 29190202, 29190203, 29190204, 29190205, 29190206, 29190207, 29190208, 29190209, 29190210, 29190211, 29190212, 29190213, 29190214, 29190215, 29190216, 29190217, 29190218, 29190219, 29190220, 29190221, 29190222, 29190223, 29190224, 29190225, 29190226, 29190227, 29190228, 29190229, 29190230, 29190231, 29190232, 29190233, 29190234, 29190235, 29190236, 29190237, 29190238, 29190239, 29190240, 29190241, 29190242, 29190243, 29190244, 29190245, 29190246, 29190247, 29190248, 29190249, 29190250, 29190251, 29190252, 29190253, 29190254, 29190255, 29190256, 29190257, 29190258, 29190259, 29190260, 29190261, 29190262, 29190263, 29190264, 29190265, 29190266, 29190267, 29190268, 29190269, 29190270, 29190271, 29190272, 29190273, 29190274, 29190275, 29190276, 29190277, 29190278, 29190279, 29190280, 29190281, 29190282, 29190283, 29190284, 29190285, 29190286, 29190287, 29190288, 29190289, 29190290, 29190291, 29190292, 29190293, 29190294, 29190295, 29190296, 29190297, 29190298, 29190299, 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