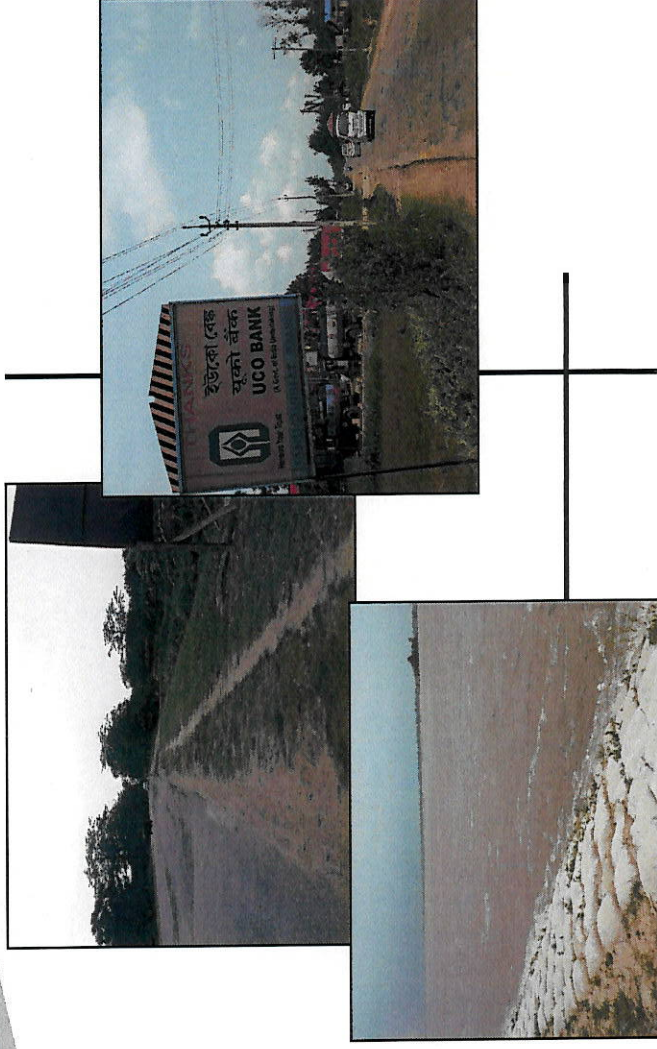




National Highways Infrastructure Development Corporation Ltd.

(Ministry of Road Transport & Highways)
Government of India

**Detailed Engineering towards Construction Four Laning of Dolabari to Jamugurihat Section
from Km.17.300 of NH37A to Km.182.000 of NH52 in the State of Assam
under SARDP-NE, Phase A on EPC Mode**



**HIGHWAY DRAWINGS FOR SERVICE ROADS
TCS, PLAN AND PROFILE, ALIGNMENT REPORT & SETOUT DATA**



Simplex Infrastructures Limited
'Simplex House', 27, Shakespeare Sarani, Kolkata-700017 (India)



Intercontinental Consultants and Technocrats Pvt. Ltd.
A-8, Green Park, New Delhi - 110 016 (India)



December, 2017

**FOUR LANING OF DOLABARI TO JAMUGURI SECTION FROM KM. 17.300 OF NH-37A TO KM. 182.000
OF NH-52 IN THE STATE OF ASSAM UNDER SARDP-NE, PHASE-A**

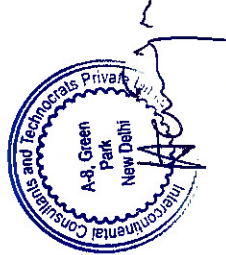
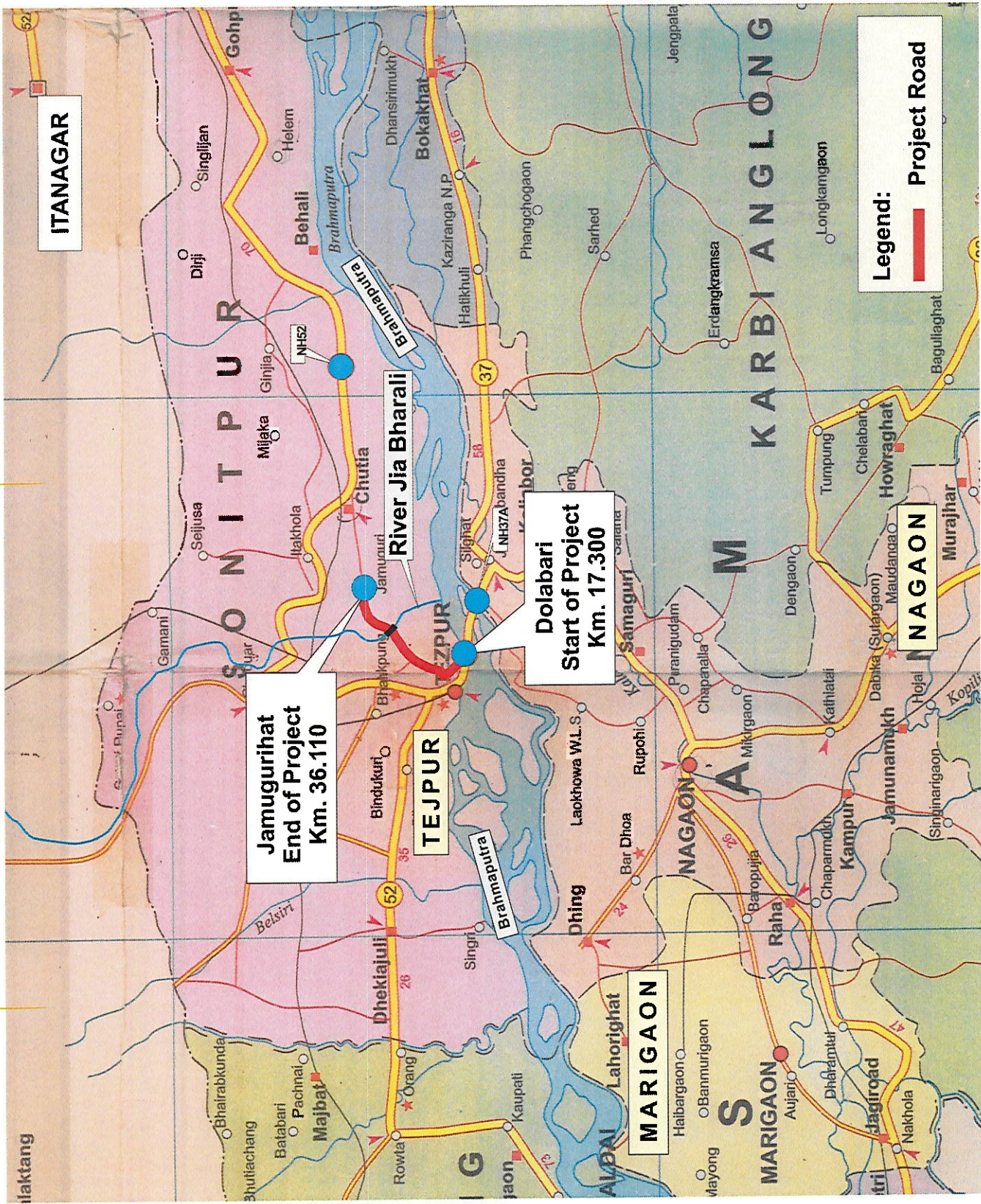
HIGHWAY DRAWING FOR SERVICE ROADS

INDEX OF DRAWINGS

S. NO.	DESCRIPTION	REVISION
1	Location Map	R0
2	Typical Cross Sections	R0
3	Plan & Longitudinal Profile of Service Road (LHS)	R0
4	Plan & Longitudinal Profile of Service Road (RHS)	R0
5	Alignment Report of Service Road (LHS & RHS)	
	a) Horizontal Alignment report	R0
	b) Vertical Alignment report	R0
6	Setout Data of Service Road (LHS)	R0
7	Setout Data of Service Road (RHS)	R0

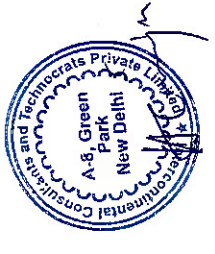


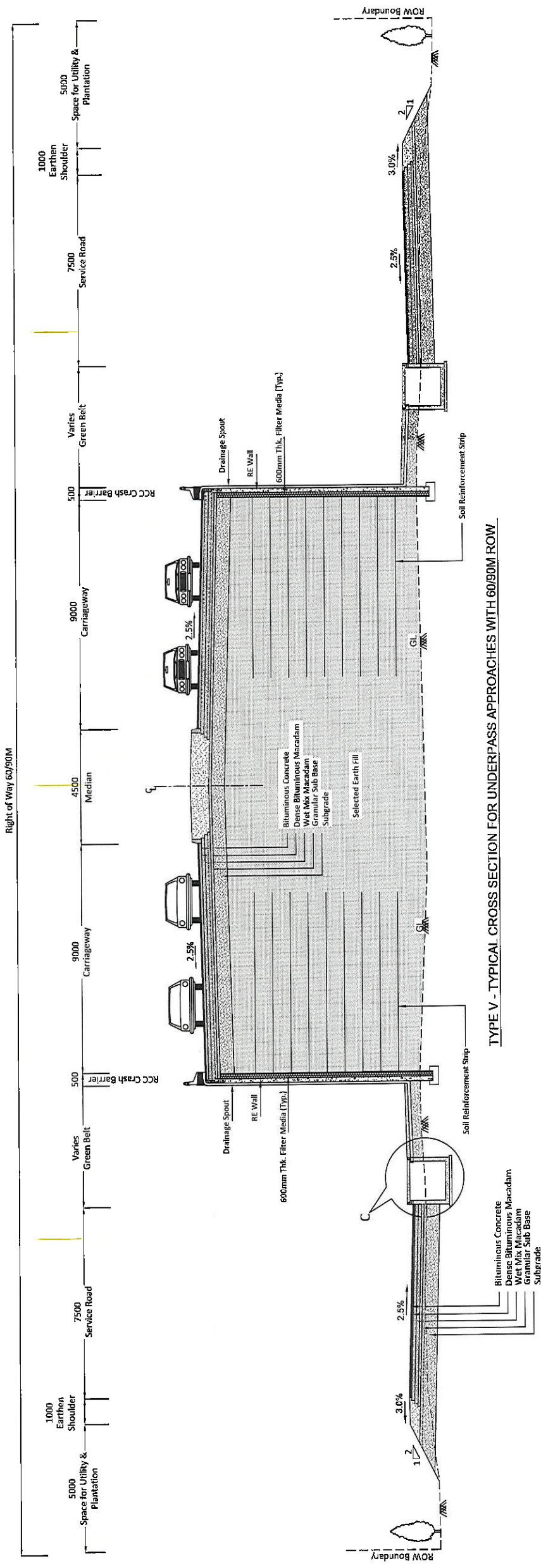
Location Map



CLIENT :- 		AUTHORITY'S ENGINEER:- 		PROOF CHECKED CONSULTANT:- 		SAFETY CONSULTANT:- 		PROJECT:- Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		EPC CONTRACTOR:- SIMPLEX INFRASTRUCTURES LTD 27, SHAHAPUR SARANI, KOLKATA-71, INDIA		DESIGN CONSULTANT:- Intercontinental Consultants & Technocrats Pvt Ltd, A-3, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax : 2685-5252		SCALE :- N.T.S	TITLE:- LOCATION MAP	Revisions R0 Dec. 2017 First Submission Rev. Date Description on Revisions	
DRAWING NO.:- NHIDCL/NH-37A/DOL-JMU/LM/1		DRAWN Sumit		CHECKED BY Rajesh Ranjan		DESIGN Rajesh Ranjan		Team Leader Rajesh Ranjan		APPROVED BY Rajesh Ranjan		Rev. Date Description on Revisions		R0 Dec. 2017 First Submission		REV. REV.	

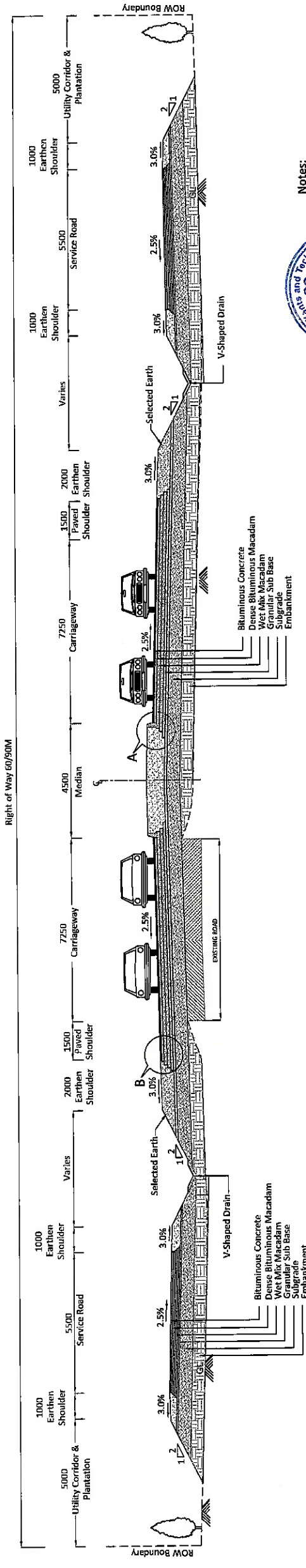
TYPICAL CROSS SECTION





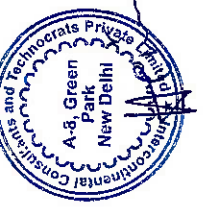
TYPE V - TYPICAL CROSS SECTION FOR UNDERPASS APPROACHES WITH 60/90M ROW

Applicable Chainages			
From (km)	To (km)	Length (km)	Remarks
17.555	17.852	0.297	-
17.852	17.884	0.032	Flyover
17.884	18.300	0.416	-
34.702	34.800	0.098	-
34.800	35.109	0.309	-
35.109	35.141	0.032	Flyover
35.141	35.526	0.385	-
Total Length		1.569	



TYPE VI - TYPICAL CROSS SECTION FOR ECCENTRIC WIDENING (LHS/RHS) WITH SERVICE ROAD AT BUILT-UP AREAS (ROW 60/90M)

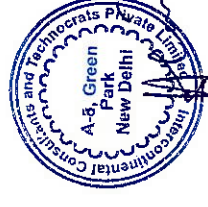
Applicable Chainages			
From (km)	To (km)	Length (km)	Remarks
17.300	17.555	0.255	-
18.300	18.400	0.100	-
18.400	18.800	0.400	-
18.800	19.800	1.000	-
19.800	20.500	0.700	-
22.800	23.800	1.000	-
Total Length		3.455	



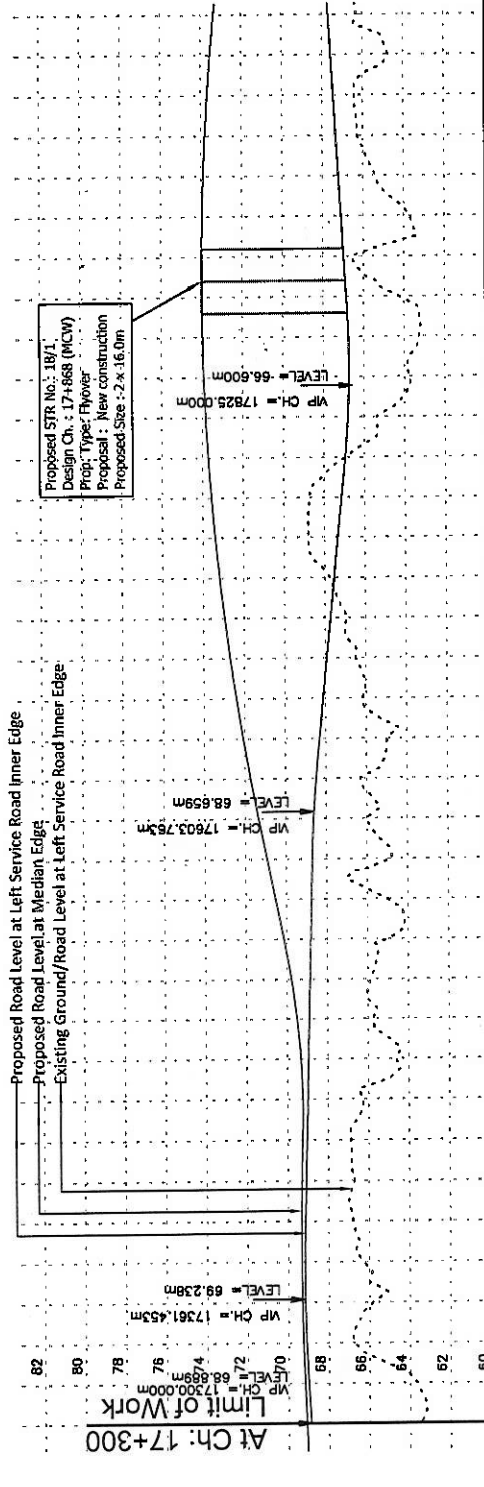
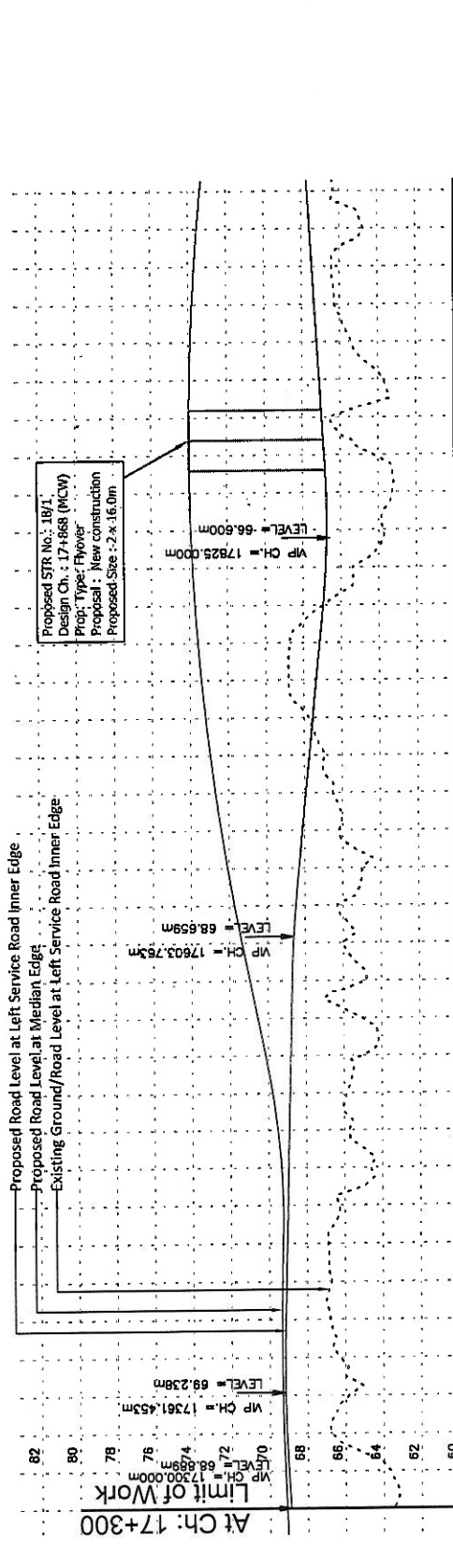
- Notes:
- All Dimensions are in mm unless otherwise specified.
 - Crash Barrier would be provided if embankment height is more than 3.0m.
 - For details of 'A' and 'B' refer drawing no. NHIDCL/NH-37A/DOL-JMU/TCS/06
 - For details of covered rectangular lined drain refer drawing no. NHIDCL/NH-37A/DOL-JMU/TCS/06

CLIENT:- 	AUTHORITY'S ENGINEER:-		AUTHORITY'S SIGNATORY		DATE
	PROOF CHECKED CONSULTANT:-		AUTHORISED SIGNATORY		DATE
PROJECT:- Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		EPC CONTRACTOR:- SIMPLEX INFRASTRUCTURES LTD 27, SHAHAPUR SARANI, KOLATA-72, INDIA		DESIGN CONSULTANT:- Intercontinental Consultants & Technocrats Pvt. Ltd., A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax : 2685-5252	
SCALE:- 1:1000		DESIGNER: Rajesh Baran		CHECKED BY: Team Leader	
TITLE:- TYPICAL CROSS SECTION		REV.		R0	
DRAWING NO.:- NHIDCL/NH-37A/DOL-JMU/TCS/06		REV.		R0	
R0		Dec. 2017		First Submission	
		Rev.		Description on Revisions	
		Date		Revisions	

PLAN & LONGITUDINAL PROFILE



TO JAMUGURIHAT —▲

[illegible]

 NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)	AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-		PROJECT:- Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE,Phase A	EPC CONTRACT  SIMPLEX INFRASTRUCTURES 27, SHAKESPEARE
	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE		
	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE		

 DESIGN CONSULTANT:- Inter-Subsidiary Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph: 4086-3000, Fax: 2685-5252				SCALE :-	TITLE:- PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (LHS) (Km. 17+300 to Km. 18+023)
H - 1:2500 V - 1:250		DRAWING NO.:- NHDDCL/NH-37A/DOL-JMU/SR/PP/1	REV. R0		
Date of DRAWN	Engineer/Assistant DESIGN	Tally/checked CHECKED BY	Project Director/ APPROVED BY		
{A2 }					

PROJECT:-	Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE,Phase A
EPC CONTRACTOR:-	 SIMPLEX INFRASTRUCTURES LTD 27, SHAKESPEARE SARANI, KOLKATA-17, INDIA

AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-	
DATE	SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE

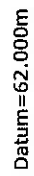
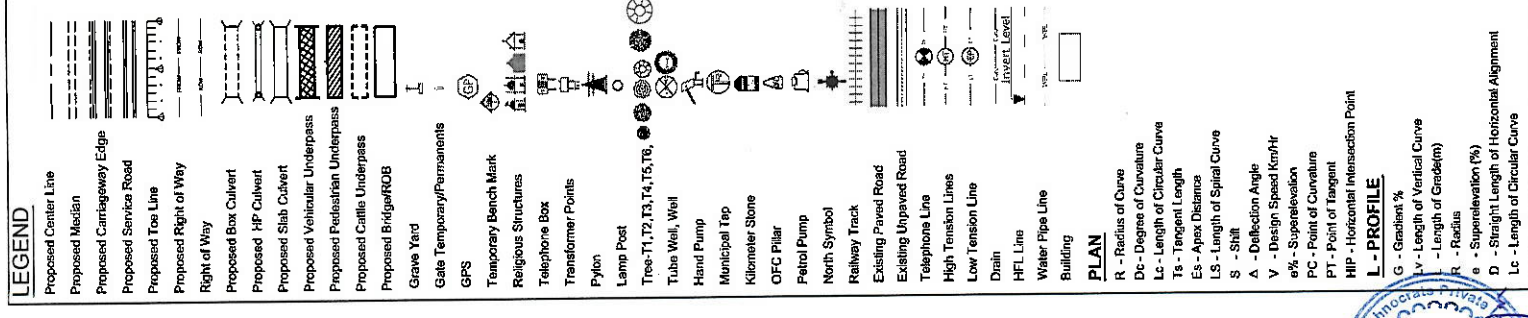
T:-



**NATIONAL HIGHWAYS
& INFRASTRUCTURE**
(Development Corporation Ltd)

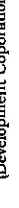


TO JAMUGURIHAT —

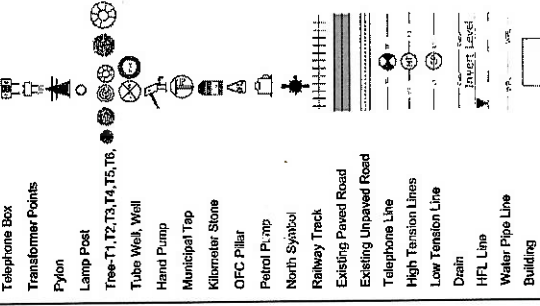
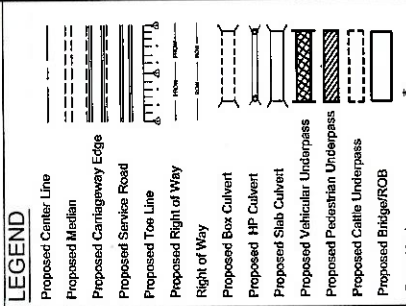


Drain	Water Pipe Line	Building	PLAN	R - Radius of Curve Dc - Degree of Curvature Lc - Length of Circular Curve Ts - Tangent Length Es - Apex Distance Ls - Length of Spiral Curve S - Shift A - Deflection Angle V - Design Speed Km/hr e% - Superelevation PC - Point of Curvature PT - Point of Tangent HIP - Horizontal Intersection Point	L - PROFILE G - Gradient % LV - Length of Vertical Curve L - Length of (Gadem) R - Radius e - Superelevation (%) D - Straight Length of Horizontal Alignment Lc - Length of Circular Curve
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R0	Dec. 2017	First Submission
Rev.	Date	Description on Revisions

 NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)	 _____ AUTHORISED SIGNATORY		 _____ AUTHORISED SIGNATORY		 _____ PROOF CHECKED CONSULTANT:-		 _____ SAFETY CONSULTANT:-		PROJECT:- Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		 EPC CONTRACTOR:- SIMPLEX INFRASTRUCTURES LTD 27, SHAKESPEARE SARANI, KOLKATA-71, INDIA		 DESIGN CONSULTANT:- Intercontinental Consultants & Technocrats Pvt Ltd, 106, 107, New Delhi - 110016 Ph: 4086-3000, Fax: 2685-5252		SCALE :- H - 1:2500 V - 1:250		TITLE:- PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (UHS) (Km. 18+023 to Km. 19+032)		REVISION NO. 1	DATE 10/05/2010
	_____ AUTHORISED SIGNATORY		_____ AUTHORISED SIGNATORY		_____ PROOF CHECKED CONSULTANT:-		_____ SAFETY CONSULTANT:-		Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		 EPC CONTRACTOR:- SIMPLEX INFRASTRUCTURES LTD 27, SHAKESPEARE SARANI, KOLKATA-71, INDIA		 DESIGN CONSULTANT:- Intercontinental Consultants & Technocrats Pvt Ltd, 106, 107, New Delhi - 110016 Ph: 4086-3000, Fax: 2685-5252		SCALE :- H - 1:2500 V - 1:250		TITLE:- PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (UHS) (Km. 18+023 to Km. 19+032)		REVISION NO. 1	DATE 10/05/2010

TO JAMUGURIHAT —



P	L
R - Radius of Curve	G - Gradient %
Dc - Degree of Curvature	Lv - Length of Vertical Curve
Lc - Length of Circular Curve	Lg - Length of Grade(n)
Ts - Tangent Length	R - Radius
Ea - Apex Distance	e - Superelevation (%)
Ls - Length at Spiral Curve	Ls - Length of Horizontal Alignment
S - Shift	Lc - Length of Circular Curve
d - Deflection Angle	
V - Design Speed Km/Hr	
e% - Superelevation	
PQ - Point of Curvature	
PT - Point of Tangent	
HIP - Horizontal Intersection Point	
	L - PROFILE

1. THE TAPERED PART OF THE SERVICE ROAD SHALL FOLLOW THE LONGITUDINAL GRADIENT OF THE MAIN CARRIAGEWAY TILL THE FULL WIDTH OF THE SERVICE ROAD STARTS.
2. AT SERVICE ROAD CHAINAGE 23+796 (MCW 23+800) CAMBER/CROSSFALL IS 5% (SLOPED INWARD)

2. AT SERVICE ROAD CHAINAGE 23+796 (MCW 23+800)
CAMBER/CROSSFALL IS 5% (SLOPED INWARD)

DESIGN CONSULTANT:

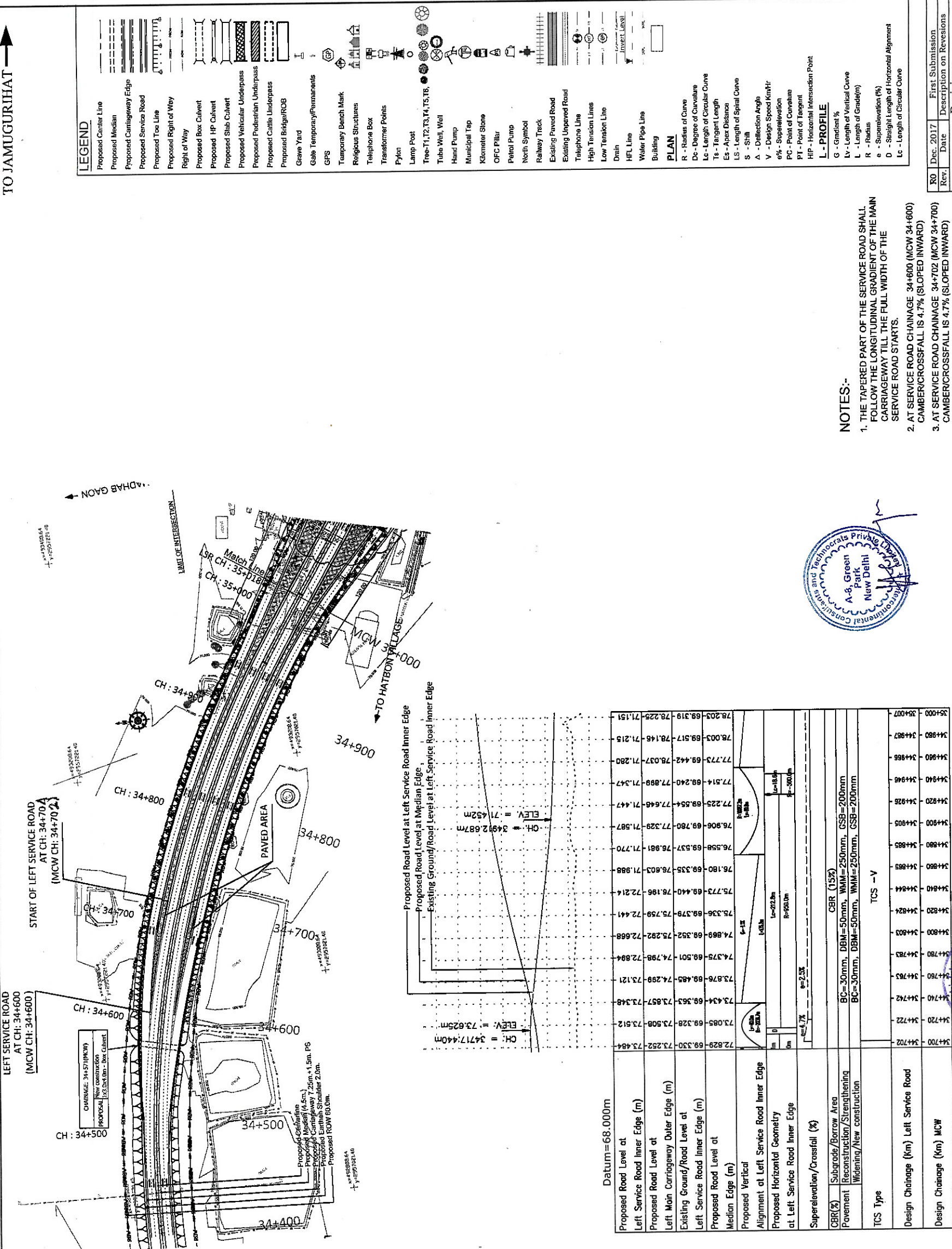
Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE Phase A

OF SERVICE ROAD (LHS)
(Km. 22+993 to Km. 23+796)

Leader	Design Director	(A2)
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TO DOLABARI

TO JAMUGURIHAT



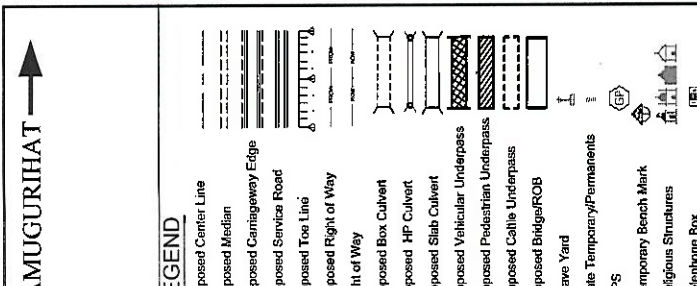
CLIENT:-		NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)		AUTHORITY'S ENGINEER:		PROOF CHECKED CONSULTANT:-		PROJECT:-		Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		BPC CONTRACTOR:-		SIMPLEX INFRASTRUCTURES LTD		DESIGN CONSULTANT:-		Intercontinental Consultants & Technocrats Pvt Ltd, 118, Connaught Place, New Delhi - 110016		TITLE:-		PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (LHS) (Km. 34+700 to Km. 35+018)		REV.		R0	
AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		REV.		R0		REV.		R0	
DRAWN		DESIGN		CHECKED BY		TEAM LEADER		DESIGN DIRECTOR		SCALE:-		H - 1:2500		V - 1:250		DATE		DATE		First Submission		Description on Revisions		REV.		R0	

NOTES:-

1. THE TAPERED PART OF THE SERVICE ROAD SHALL FOLLOW THE LONGITUDINAL GRADIENT OF THE MAIN CARRIAGEWAY TILL THE FULL WIDTH OF THE SERVICE ROAD STARTS.
2. AT SERVICE ROAD CHAINAGE 34+600 (MCW 34+600) CAMBER/CROSSFALL IS 4.7% (SLOPED INWARD)
3. AT SERVICE ROAD CHAINAGE 34+702 (MCW 34+700) CAMBER/CROSSFALL IS 4.7% (SLOPED INWARD)

Datum=68.000m		TCS - V	
Proposed Road Level at	Left Service Road Inner Edge (m)	78.203	78.229
Proposed Road Level at	Left Main Carriageway Outer Edge (m)	78.003	78.017
Existing Ground/Road Level at	Left Service Road Inner Edge (m)	77.773	77.787
Proposed Road Level at	Median Edge (m)	77.514	77.528
Proposed Vertical	Alignment at Left Service Road Inner Edge	77.225	77.239
Proposed Horizontal Geometry	at Left Service Road Inner Edge	76.906	76.920
Superelevation/Crossfall (%)		76.558	76.572
CBR (%)	Subgrade/Borrow Area	76.180	76.194
Pavement	Reconstruction/Strengthening	75.773	75.787
Widening/New construction		75.336	75.350
TCS Type		74.893	74.907
Design Chainage (km)	Left Service Road	74.375	74.389
Design Chainage (km)	MCW	73.829	73.843

TO JAMUGURIHAT —



Transformer Points

ion Post
ase-11, 12, 13, 14, 15, 16,
the Well, Well
and Pump
unicipal Tap
ometer Stone
r Pillar
ontrol Pump
with Symbol
lway Track
isting Paved Road
alking Unpaved Road
Telephone Line
gh Tension Lines
w Tension Line
ain
FL Line
Water Pipe Line
uilding

LAN

- Radius of Curve
- Degree of Curvature
- Length of Circular Curve
- Tangent Length
- Apex Distance
- Length of Spiral Curve
- Shift
- Deflection Angle
- Design Speed Km/Hr
- Superelevation %
- Point of Curvature
- Point of Tangent
- Horizontal Intersection Point

- PROFILE -

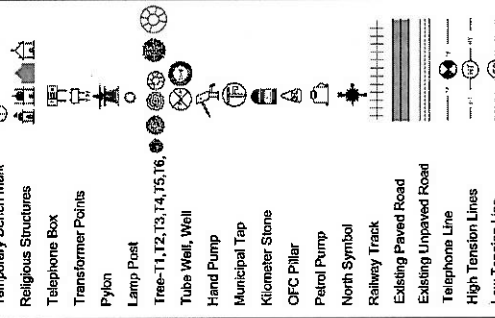
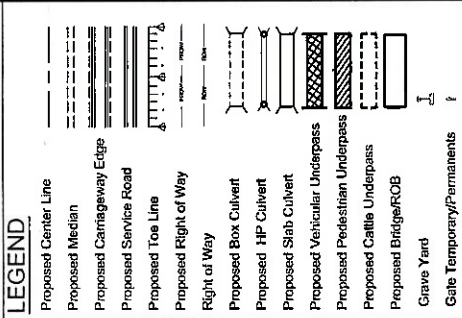
- Gradient %
- Length of Vertical Curve
- Length of Grade(m)
- Radius
- Superlevation (%)
- Straight Length of Horizontal Alignment
- Length of Circular Curve



DATE	2017	First Submission
DESCRIPTION	Description on Revisions	
Revisions		
B & LONGITUDINAL PROFILE OF SERVICE ROAD (LHS) 1. 35+007 to Km. 35+534)		
NO.:-	REV.	
11NH-37A/DOL-JMU/SR/PP/8	R0	

TO JAMUGURIHAT

Proposed	Existing
Proposed Center Line	Proposed Center Line
Proposed Median	Proposed Median
Proposed Camberway Edge	Proposed Camberway Edge
Proposed Service Road	Proposed Service Road
Proposed Toe Line	Proposed Toe Line
Proposed Right of Way	Proposed Right of Way
Proposed Right of Way Right of Way	Proposed Right of Way Right of Way
Proposed Box Culvert	Proposed Box Culvert
Proposed HP Culvert	Proposed HP Culvert
Proposed Slab Culvert	Proposed Slab Culvert
Proposed Vehicular Underpass	Proposed Vehicular Underpass
Proposed Pedestrian Underpass	Proposed Pedestrian Underpass
Proposed Canine Underpass	Proposed Canine Underpass
Proposed Bridge/ROB	Proposed Bridge/ROB
Grave Yard	Grave Yard
Gate Temporary/Parmanents	Gate Temporary/Parmanents

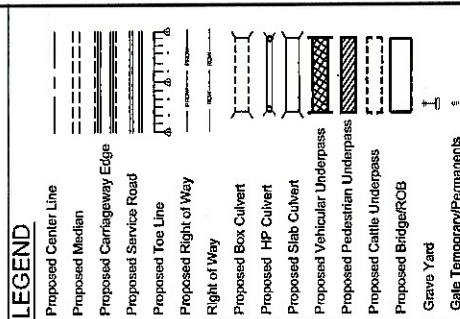


Low tension Line		Drain		Water Pipe Line		Building		PLAN		R - Radius of Curve Dc - Degree of Curvature Lc - Length of Circular Curve Ts - Tangent Length Es - Apex Distance LS - Length of Spiral Curve S - Shift Δ - Deflection Angle V - Design Speed Km/Hr e% - Superelevation PC - Point of Curvature PT - Point of Tangent HIP - Horizontal Intersection Point		L - PROFILE G - Gradient % Lv - Length of Vertical Curve L - Length of Grade(m) R - Radius e - Superelevation (%) D - Straight Length of Horizontal Alignment Lo - Length of Circular Curve		Final Submission	
Dec. 1917		Date												Revisions	



Design Chainage (Km) MCW	CLIENT :-  NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)																				AUTHORITY'S ENGINEER:- <table><tr><td>17+300</td><td>17+320</td><td>17+340</td><td>17+360</td><td>17+400</td><td>17+420</td><td>17+440</td><td>17+460</td><td>17+480</td><td>17+500</td><td>17+520</td><td>17+540</td><td>17+560</td><td>17+580</td><td>17+600</td><td>17+620</td><td>17+640</td><td>17+660</td><td>17+680</td><td>17+700</td><td>17+720</td><td>17+740</td><td>17+760</td><td>17+780</td><td>17+800</td><td>17+820</td><td>17+840</td><td>17+860</td><td>17+880</td><td>17+900</td><td>17+920</td><td>17+940</td><td>17+960</td><td>17+980</td><td>18+000</td></tr><tr><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td><td colspan="2">AUTHORISED SIGNATORY</td><td colspan="2">DATE</td></tr></table>																				17+300	17+320	17+340	17+360	17+400	17+420	17+440	17+460	17+480	17+500	17+520	17+540	17+560	17+580	17+600	17+620	17+640	17+660	17+680	17+700	17+720	17+740	17+760	17+780	17+800	17+820	17+840	17+860	17+880	17+900	17+920	17+940	17+960	17+980	18+000	AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		PROOF CHECKED CONSULTANT:- 		SAFETY CONSULTANT:- 		PROJECT:- Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		EPC CONTRACTOR:-  SIMPLEX INFRASTRUCTURES LTD 27, SHAHPEERA SARANI, KOLKATA-75, INDIA		DESIGN CONSULTANT:-  Intercontinental Consultants & Technocrats Pvt Ltd, 4-B, Green Park, New Delhi -110016 Ph. 4086-3000, Fax: 2685-5252		SCALE 1:- H - 1:2500 V - 1:250		TITLE:- PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (RHS) (Km. 17+300 to Km. 17+979)		REVISIONS	
	17+300	17+320	17+340	17+360	17+400	17+420	17+440	17+460	17+480	17+500	17+520	17+540	17+560	17+580	17+600	17+620	17+640	17+660	17+680	17+700	17+720	17+740	17+760	17+780	17+800	17+820	17+840	17+860	17+880	17+900	17+920	17+940	17+960	17+980	18+000																																																																																														
AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE		AUTHORISED SIGNATORY		DATE																																																																																													
DRAWING NO.:- NHIDCL/NH-37A/DOL-JMU/SR/PP/ 1 RO		REV.		Sumit		Rejeev Ranjan		Team Leader		Design Director		APPROVED BY		(42)		DRAWING NO.:-		REV.																																																																																																															

TO JAMUGURHAT —



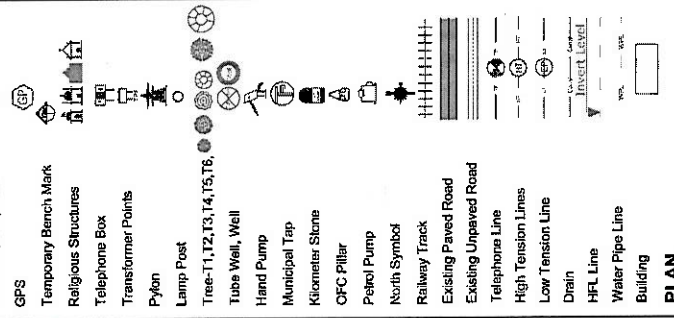
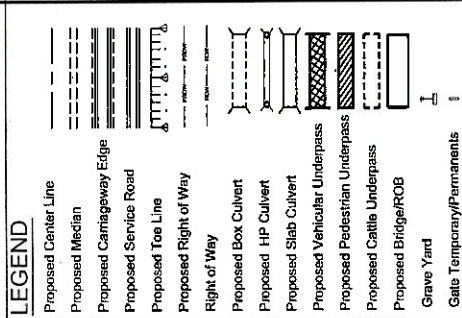
Telephone Box	
Transformer Points	
Pylon	
Lamp Post	
Tube T-1, T2, T3, T4, T5, T6	
True Well, Well	
Hand Pump	
Municipal Tap	
Kilometer Stone	
OFC Pillar	
Petrol Pump	
North Symbol	
Railway Track	
Existing Paved Road	
Existing Unpaved Road	
Telephone Line	
High Tension Lines	
Low Tension Line	
Drain	
HFI Line	
Water Pipe Line	
Building	
PLAN	
R - Radius of Curve	
Dc - Degree of Curvature	
Lc - Length of Circular Curve	
Ts - Tangent Length	
Es - Apex Distance	
LS - Length of Spiral Curve	
S - Shift	
Δ - Deflection Angle	
V - Design Speed Km/Hr	
e% - Superelevation	
PC - Point of Curvature	
PT - Point of Tangent	
HP - Horizontal Intersection Point	
L - PROFILE	
G - Gradient %	
Lv - Length of Vertical Curve	
L - Length of Grade(m)	
R - Radius	
e - Superelevation (%)	
b - Straight Length of Horizontal Alignment	
Lc - Length of Circular Curve	

R0	Dec. 2017	First Submission
Rev.	Date	Description on Revisions
Revisions		
TITLE:-		
PLAN & LONGITUDINAL PROFILE		
OF SERVICE ROAD (RHS)		
(Km. 17+979 to Km. 18+970)		
DRAWING NO.:-		REV.
NHDDCI/RH-37A/DOJ-JMU/SK/PP/ 2		R0

 NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)	AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY/CONSULTANT:-		PROJECT:- Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A	 SIMPLEX INFRASTRUCTURES LTD 27, SHAKESPEARE SARANI, KOLKATA-17, INDIA	EPC CONTRACTOR:-	 Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax : 2685-5252	DESIGN CONSULTANT:-	SCALE :- H - 1:2500 V - 1:250 (A2)
	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE						

TO JAMUGURIHAT —

TO JAMUGURIHAT —



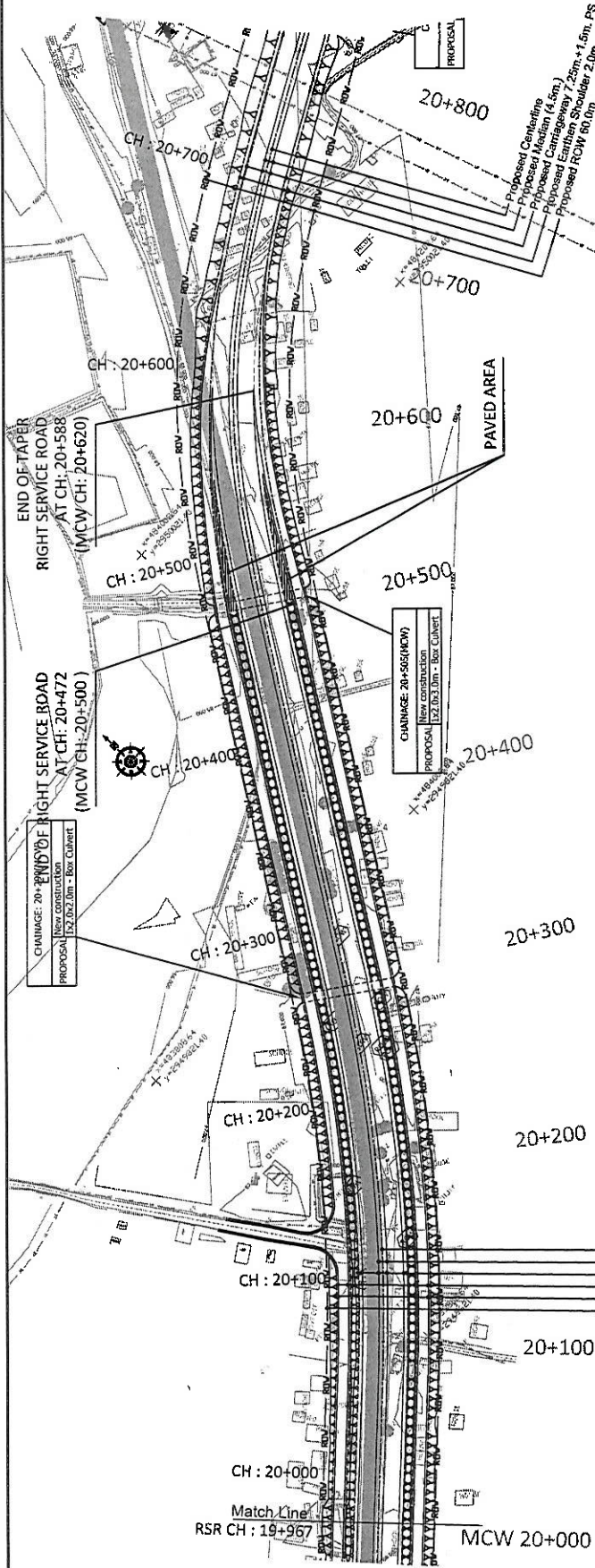
R - Radius of Curve	Dc - Degree of Curvature	Lc - Length of Curvature	Ts - Tangent Length	Ea - Apex Distance	LS - Length of Spiral Curve	S - Shift	<u>L</u> - Deflection Angle	V - Design Speed Km/Hr	e% - Superelevation	PC - Point of Curvature	PT - Point of Tangent	HIP - Horizontal Intersection Point	<u>L - PROFILE</u>	G - Gradient %	Lv - Length of Vertical Curve	L - Length of Grade(m)	R - Radius	d - Superelevation (%)	e - Stairgial Length of Horizontal Alignment	Lc - Length of Circular Curve
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Design Chainage (km) MCW	19+000	19+020	19+040	19+060	19+080	19+100	19+120	19+140	19+160	19+180	19+200	19+220	19+240	19+260	19+280	19+300	19+320	19+340	19+360	19+380	19+400	19+420	19+440	19+460	19+480	19+500	19+520	19+540	19+560	19+580	19+600	19+620	19+640	19+660	19+680	19+700	19+720	19+740	19+760	19+780	19+800	19+820	19+840	19+860	19+880	19+900	19+920	19+940	19+960	19+980	20+000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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	AUTHORISED SIGNATORY DATE		AUTHORISED SIGNATORY DATE		AUTHORISED SIGNATORY DATE		DRAWING NO.:-		Submit DRAWN DESIGN CHECKED BY APPROVED BY		Team Leader Design Director		REV.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TO DOLABARI

END OF RIGHT SERVICE ROAD
AT CH: 20+472
(MCW CH: 20+500)
PROPOSED: 1x2.0x3.0m Box Culvert

END OF TAPER
RIGHT SERVICE ROAD
AT CH: 20+588
(MCW CH: 20+620)
PROPOSED: 1x2.0x3.0m Box Culvert



Proposed Road Level at Right Service Road Inner Edge
Existing Ground/Road Level at Right Service Road Inner Edge

Proposed STR No. 21/2
CA Ch: 20+505 (MCW)
Design Ch: 20+505 (MCW)
Proposed Type: Box Culvert
Proposed Size: 1x2.0x3.0m
Proposal: New construction

Proposed STR No. 21/1
CA Ch: 20+250 (MCW)
Design Ch: 20+250 (MCW)
Proposed Type: Box Culvert
Proposed Size: 1x2.0x2.0m
Proposal: New construction

CH = 20252.37m
ELEV. = 71.279m

CH = 20024.922m
ELEV. = 69.433m

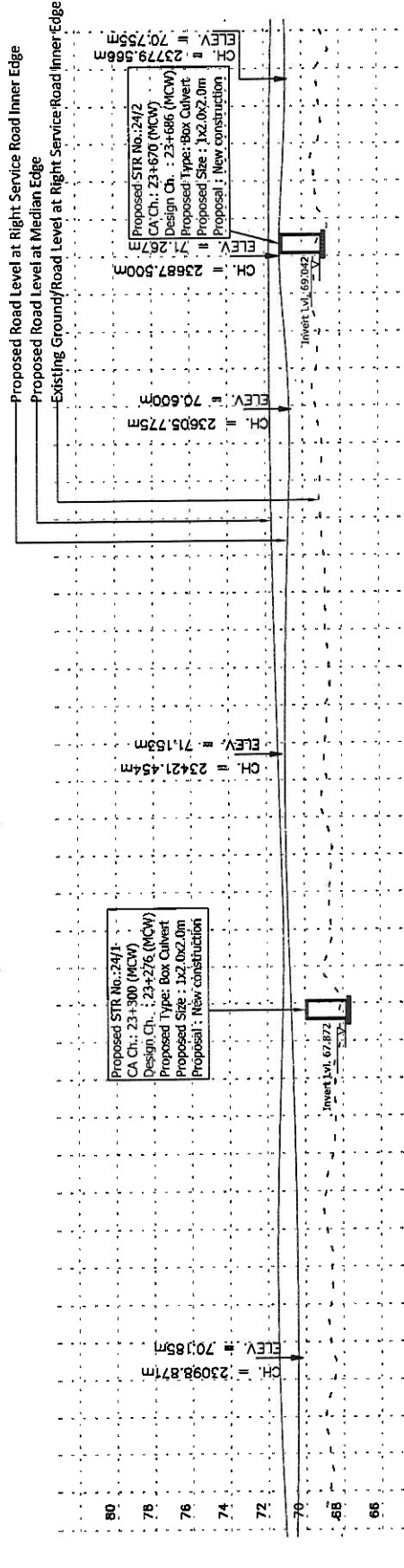
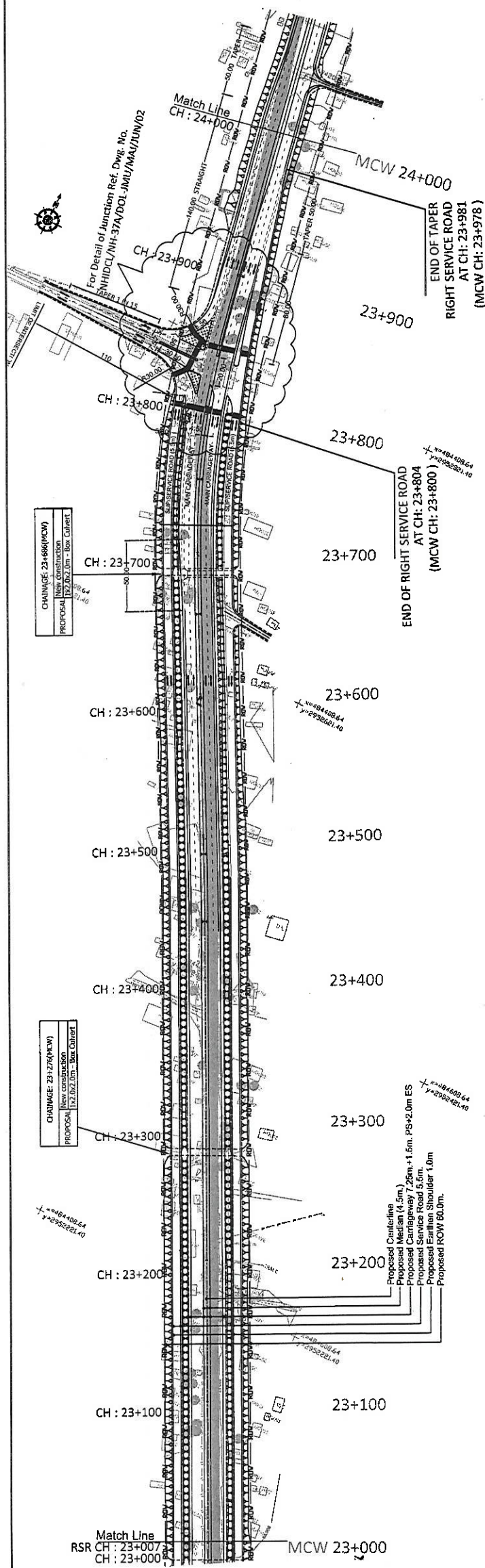
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Proposed Road Level at Right Service Road Inner Edge (m)	70.950	70.949	70.948	70.947	70.946	70.945	70.944	70.943	70.942	70.941	70.940	70.939	70.938	70.937	70.936	70.935	70.934	70.933	70.932	70.931	70.930	70.929	70.928	70.927	70.926	70.925	70.924	70.923	70.922	70.921	70.920	70.919	70.918	70.917	70.916	70.915	70.914	70.913	70.912	70.911	70.910	70.909	70.908	70.907	70.906	70.905	70.904	70.903	70.902	70.901	70.900	69.999	69.998	69.997	69.996	69.995	69.994	69.993	69.992	69.991	69.990	69.989	69.988	69.987	69.986	69.985	69.984	69.983	69.982	69.981	69.980	69.979	69.978	69.977	69.976	69.975	69.974	69.973	69.972	69.971	69.970	69.969	69.968	69.967	69.966	69.965	69.964	69.963	69.962	69.961	69.960	69.959	69.958	69.957	69.956	69.955	69.954	69.953	69.952	69.951	69.950	69.949	69.948	69.947	69.946	69.945	69.944	69.943	69.942	69.941	69.940	69.939	69.938	69.937	69.936	69.935	69.934	69.933	69.932	69.931	69.930	69.929	69.928	69.927	69.926	69.925	69.924	69.923	69.922	69.921	69.920	69.919	69.918	69.917	69.916	69.915	69.914	69.913	69.912	69.911	69.910	69.909	69.908	69.907	69.906	69.905	69.904	69.903	69.902	69.901	69.900	69.899	69.898	69.897	69.896	69.895	69.894	69.893	69.892	69.891	69.890	69.889	69.888	69.887	69.886	69.885	69.884	69.883	69.882	69.881	69.880	69.879	69.878	69.877	69.876	69.875	69.874	69.873	69.872	69.871	69.870	69.869	69.868	69.867	69.866	69.865	69.864	69.863	69.862	69.861	69.860	69.859	69.858	69.857	69.856	69.855	69.854	69.853	69.852	69.851	69.850	69.849	69.848	69.847	69.846	69.845	69.844	69.843	69.842	69.841	69.840	69.839	69.838	69.837	69.836	69.835	69.834	69.833	69.832	69.831	69.830	69.829	69.828	69.827	69.826	69.825	69.824	69.823	69.822	69.821	69.820	69.819	69.818	69.817	69.816	69.815	69.814	69.813	69.812	69.811	69.810	69.809	69.808	69.807	69.806	69.805	69.804	69.803	69.802	69.801	69.800	69.799	69.798	69.797	69.796	69.795	69.794	69.793	69.792	69.791	69.790	69.789	69.788	69.787	69.786	69.785	69.784	69.783	69.782	69.781	69.780	69.779	69.778	69.777	69.776	69.775	69.774	69.773	69.772	69.771	69.770	69.769	69.768	69.767	69.766	69.765	69.764	69.763	69.762	69.761	69.760	69.759	69.758	69.757	69.756	69.755	69.754	69.753	69.752	69.751	69.750	69.749	69.748	69.747	69.746	69.745	69.744	69.743	69.742	69.741	69.740	69.739	69.738	69.737	69.736	69.735	69.734	69.733	69.732	69.731	69.730	69.729	69.728	69.727	69.726	69.725	69.724	69.723	69.722	69.721	69.720	69.719	69.718	69.717	69.716	69.715	69.714	69.713	69.712	69.711	69.710	69.709	69.708	69.707	69.706	69.705	69.704	69.703	69.702	69.701	69.700	69.699	69.698	69.697	69.696	69.695	69.694	69.693	69.692	69.691	69.690	69.689	69.688	69.687	69.686	69.685	69.684	69.683	69.682	69.681	69.680	69.679	69.678	69.677	69.676	69.675	69.674	69.673	69.672	69.671	69.670	69.669	69.668	69.667	69.666	69.665	69.664	69.663	69.662	69.661	69.660	69.659	69.658	69.657	69.656	69.655	69.654	69.653	69.652	69.651	69.650	69.649	69.648	69.647	69.646	69.645	69.644	69.643	69.642	69.641	69.640	69.639	69.638	69.637	69.636	69.635	69.634	69.633	69.632	69.631	69.630	69.629	69.628	69.627	69.626	69.625	69.624	69.623	69.622	69.621	69.620	69.619	69.618	69.617	69.616	69.615	69.614	69.613	69.612	69.611	69.610	69.609	69.608	69.607	69.606	69.605	69.604	69.603	69.602	69.601	69.600	69.599	69.598	69.597	69.596	69.595	69.594	69.593	69.592	69.591	69.590	69.589	69.588	69.587	69.586	69.585	69.584	69.583	69.582	69.581	69.580	69.579	69.578	69.577	69.576	69.575	69.574	69.573	69.572	69.571	69.570	69.569	69.568	69.567	69.566	69.565	69.564	69.563	69.562	69.561	69.560	69.559	69.558	69.557	69.556	69.555	69.554	69.553	69.552	69.551	69.550	69.549	69.548	69.547	69.546	69.545	69.544	69.543	69.542	69.541	69.540	69.539	69.538	69.537	69.536	69.535	69.534	69.533	69.532	69.531	69.530	69.529	69.528	69.527	69.526	69.525	69.524	69.523	69.522	69.521	69.520	69.519	69.518	69.517	69.516	69.515	69.514	69.513	69.512	69.511	69.510	69.509	69.508	69.507	69.506	69.505	69.504	69.503	69.502	69.501	69.500	69.499	69.498	69.497	69.496	69.495	69.494	69.493	69.492	69.491	69.490	69.489	69.488	69.487	69.486	69.485	69.484	69.483	69.482	69.481	69.480	69.479	69.478	69.477	69.476	69.475	69.474	69.473	69.472	69.471	69.470	69.469	69.468	69.467	69.466	69.465	69.464	69.463	69.462	69.461	69.460	69.459	69.458	69.457	69.456	69.455	69.454	69.453	69.452	69.451	69.450	69.449	69.448	69.447	69.446	69.445	69.444	69.443	69.442	69.441	69.440	69.439	69.438	69.437	69.436	69.435	69.434	69.433	69.432	69.431	69.430	69.429	69.428	69.427	69.426	69.425	69.424	69.423	69.422	69.421	69.420	69.419	69.418	69.417	69.416	69.415	69.414	69.413	69.412	69.411	69.410	69.409	69.408	69.407	69.406	69.405	69.404	69.403	69.402	69.401	69.400	69.399	69.398	69.397	69.396	69.395	69.394	69.393	69.392	69.391	69.390	69.389	69.388	69.387	69.386	69.385	69.384	69.383	69.382	69.381	69.380	69.379	69.378	69.377	69.376	69.375	69.374	69.373	69.372	69.371	69.370	69.369	69.368	69.367	69.366	69.365	69.364	69.363	69.362	69.361	69.360	69.359	69.358	69.357	69.356	69.355	69.354	69.353	69.352	69.351	69.350	69.349	69.348	69.347	69.346	69.345	69.344	69.343	69.342	69.341	69.340	69.339	69.338	69.337	69.336	69.335	69.334	69.333	69.332	69.331	69.330	69.329	69.328	69.327	69.326	69.325	69.324	69.323	69.322	69.321	69.320	69.319	69.318	69.317	69.316	69.315	69.314	69.313	69.312	69.311	69.310	69.309	69.308	69.307	69.306	69.305	69.304	69.303	69.302	69.301	69.300	69.299	69.298	69.297	69.296	69.295	69.294	69.293	69.292	69.291	69.290	69.289	69.288	69.287	69.286	69.285	69.284	69.283	69.282	69.281	69.280	69.279	69.278	69.277	69.276	69.275	69.274	69.273	69.272	69.271	69.270	69.269	69.268	69.267	69.266	69.265	69.264	69.263	69.262	69.261	69.260	69.259	69.258	69.257	69.256	69.255	69.254	69.253	69.252	69.251	69.250	69.249	69.248	69.247	69.246	69.245	69.244	69.243	69.242	69.241	69.240	69.239	69.238	69.237	69.236	69.235	69.234	69.233	69.232	69.231	69.230	69.229	69.228	69.227	69.226	69.225	69.224	69.223	69.222	69.221	69.220	69.219	69.218	69.217	69.216	69.215	69.214	69.213	69.212	69.211	69.210	69.209	69.208	69.207	69.206	69.205	69.204	69.203	69.202	69.201	69.200	69.199	69.198	69.197	69.196	69.195	69.194	69.193	69.192	69.191	69.190	69.189	69.188	69.187	69.186	69.185	69.184	69.183	69.182	69.181	69.180	69.179	69.178	69.177	69.176	69.175	69.174	69.173	69.172	69.171	69.170	69.169	69.168	69.167	69.166	69.165	69.164	69.163	69.162	69.161	69.160	69.159	69.158	69.157	69.156	69.155	69.154	69.153	69.152	69.151	69.150	69.149	69.148	69.147	69.146	69.145	69.144	69.143	69.142	69.141	69.140	69.139	69.138	69.137	69.136	69.135	69.134	69.133	69.132	69.131	69.130	69.129	69.128	69.127	69.126	69.125	69.124	69.123	69.122	69.121	69.120	69.119	69.118	69.117	69.116	69.115	69.114	69.113	69.112	69.111	69.110	69.109	69.108	69.107	69.106	69.105	69.104	69.103	69.102	69.101	69.100	69.099	69.098	69.097	69.096	69.095	69.094	69.093	69.092	69.091	69.090	69.089	69.088	69.087	69.086	69.085	69.084	69.083	69.082	69.081	69.080	69.079	69.078	69.077	69.076	69.075	69.074	69.073	69.072	69.071	69.070	69.069	69.068	69.067	69.066	69.065	69.064	69.063	69.062	69.061	69.060	69.059	69.058	69.057	69.056	69.055	69.054	69.053	69.052	69.051	69.050	69.049	69.048	69.047	69.046	69.045	69.044	69.043	69.042	69.041	69.040	69.039	69.038	69.037	69.036	69.035	69.034	69.033	69.032	69.031	69.030	69.029	69.028	69.027	69.026	69.025	69.024	69.023	69.022	69.021	69.020	
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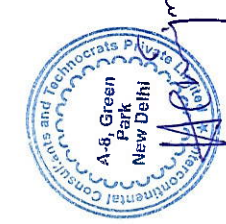
TO DOLABARI

TO JAMUGURIHAT

LEGEND	
Proposed Center Line	Proposed Median
Proposed Carriageway Edge	Proposed Service Road
Proposed Toe Line	Proposed Right of Way
Right of Way	Proposed Box Culvert
Proposed HP Culvert	Proposed Slab Culvert
Proposed Vehicular Underpass	Proposed Pedestrian Underpass
Proposed Cattle Underpass	Proposed Bridge/ROB
Grave Yard	Gate Temporary/Permanent
GPS	Temporary Bench Mark
Religious Structures	Telephone Box
Transformer Points	Pylon
Lamp Post	Tree-T1, T2, T3, T4, T5, T6
Tube Well, Well	Hand Pump
Municipal Tap	Kilometer Stone
CFC Pillar	Petrol Pump
North Symbol	Railway Track
Existing Paved Road	Existing Unpaved Road
Telephone Line	High Tension Lines
Low Tension Lines	Drain
HFL Line	Water Pipe Line
Building	PLAN
R - Radius of Curve	Dc - Degree of Curvature
Lc - Length of Circular Curve	Ts - Tangent Length
Es - Apex Distance	LS - Length of Spiral Curve
S - Shift	A - Deflection Angle
V - Design Speed km/hr	e% - Superelevation
PC - Point of Curvature	PT - Point of Tangent
HP - Horizontal Intersection Point	L - PROFILE
G - Gradient %	Lv - Length of Vertical Curve
L - Length of Grade(m)	R - Radius
e - Superelevation (%)	D - Straight Length of Horizontal Alignment
Lc - Length of Circular Curve	



Datum = 64.000m	
Proposed Road Level at Right Service Road Inner Edge (m)	71.000
Proposed Road Level at Right Main Carriageway Outer Edge (m)	71.000
Existing Ground/Road Level at Right Service Road Inner Edge (m)	71.000
Proposed Road Level at Main Carriageway (m)	71.000
Proposed Vertical Alignment at Right Service Road Inner Edge	71.000
Proposed Horizontal Geometry at Right Service Road Inner Edge	71.000
Superelevation/Crossfall (%)	71.000
CBR (%)	71.000
Pavement Reconstruction/Strengthening Widening/New construction	71.000
TCS Type	71.000
Design Chainage (Km) Right Service Road	71.000
Design Chainage (Km) MCW	71.000

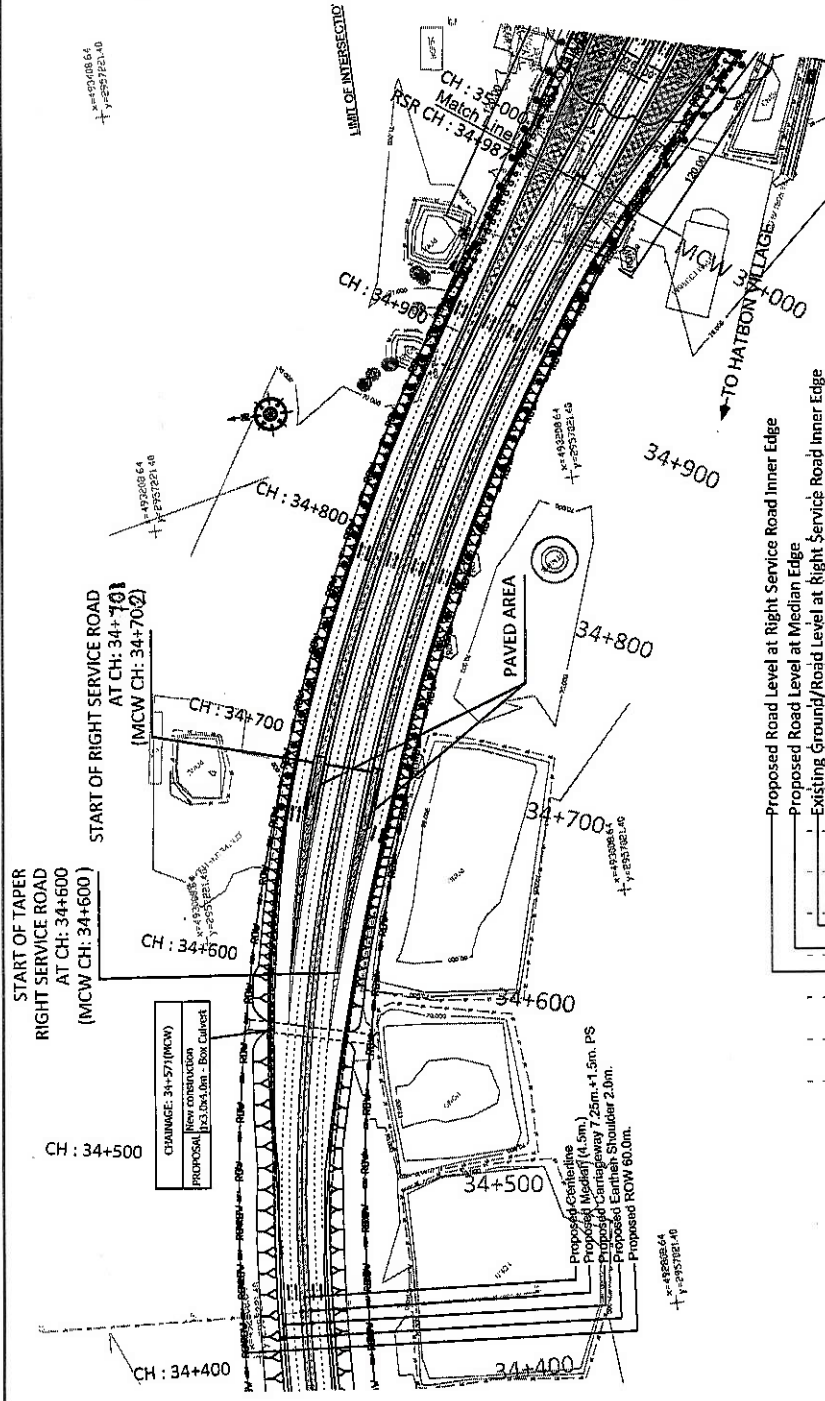


NOTES:-
1. THE TAPERED PART OF THE SERVICE ROAD SHALL FOLLOW THE LONGITUDINAL GRADIENT OF THE MAIN CARRIAGEWAY TILL THE FULL WIDTH OF THE SERVICE ROAD STARTS.
2. AT SERVICE ROAD CHAINAGE 23+804 (MCW 23+800) CAMBER/CROSSFALL IS -5% (SLOPED OUTWARD)
3. AT SERVICE ROAD CHAINAGE 23+981 (MCW 23+978) CAMBER/CROSSFALL IS -5% (SLOPED OUTWARD)

CLIENT :-		AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-		PROJECT:-		EPC CONTRACTOR:-		DESIGN CONSULTANT:-		SCALE :-		TITLE:-	
NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)		Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		KOLKATA		KOLKATA		Four Lining of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A		SIMPLEX INFRASTRUCTURES LTD		Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 Ph : 4066-3000, Fax : 2685-5252		H - 1:2500 V - 1:250		PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (RHS) (Km. 23+007 to Km. 23+804)	
AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		DRAWN		REV. NO.:-	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DESIGN		DRAWING NO.:-	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		CHECKED BY		NHDC/JNH-37A/DOL-JMU/SR/PP/ 6	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DESIGN		REV. R0	

START OF TAPER
RIGHT SERVICE ROAD
AT CH: 34+600
(MCW CH: 34+600)

TO JAMUGURIHAT



Datum = 68.000m	
Proposed Road Level at Right Service Road Inner Edge (m)	78.203 69.726 77.967 77.985
Proposed Road Level at Right Main Carriageway Outer Edge (m)	78.003 69.092 77.710 71.715
Existing Ground/Road Level at Right Service Road Inner Edge (m)	77.773 69.409 77.424 71.834
Proposed Road Level at Main Carriageway (m)	77.514 69.371 77.108 71.852
Proposed Vertical Alignment at Right Service Road Inner Edge	77.225 69.510 76.802 72.067
Proposed Horizontal Geometry at Right Service Road Inner Edge	76.906 69.476 76.483 72.157
Superelevation/Crossfall (%)	76.558 69.392 76.135 72.212
CBR(%) Subgrade/Borrow Area Reconstruction/Strengthening Widening/New construction	76.180 69.544 75.757 72.234
TCS Type	75.773 69.447 75.350 72.218
Design Chainage (Km) Right Service Road	75.336 69.486 74.913 72.171
Design Chainage (Km) MCW	74.869 68.601 74.448 72.112
	74.375 68.428 73.952 72.053
	73.876 69.360 73.453 71.994
	73.434 69.321 73.011 71.936
	73.085 69.326 72.662 71.908
	72.829 69.372 72.406 71.910

NOTES:-

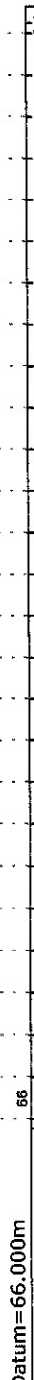
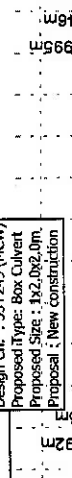
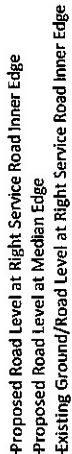
1. THE TAPERED PART OF THE SERVICE ROAD SHALL FOLLOW THE LONGITUDINAL GRADIENT OF THE MAIN CARRIAGEWAY TILL THE FULL WIDTH OF THE SERVICE ROAD STARTS.
2. AT SERVICE ROAD CHAINAGE 34+600 (MCW 34+600) CAMBER/CROSSFALL IS -4.7% (SLOPED OUTWARD)
3. AT SERVICE ROAD CHAINAGE 34+699 (MCW 34+700) CAMBER/CROSSFALL IS -4.7% (SLOPED OUTWARD)

LEGEND	
	Proposed Center Line
	Proposed Median
	Proposed Carriageway Edge
	Proposed Service Road
	Proposed Toe Line
	Proposed Right of Way
	Right of Way
	Proposed Box Culvert
	Proposed HP Culvert
	Proposed Slab Culvert
	Proposed Vehicular Underpass
	Proposed Pedestrian Underpass
	Proposed Cattle Underpass
	Proposed Bridge/ROB
	Grave Yard
	Gate Temporary/Permanents
	GPS
	Temporary Bench Mark
	Religious Structures
	Telephone Box
	Transformer Points
	Pylon
	Lamp Post
	Tree-T1, T2, T3, T4, T5, T6
	Tube Well, Well
	Hand Pump
	Municipal Tap
	Kilometer Stone
	OFC Pillar
	Petrol Pump
	North Symbol
	Railway Track
	Existing Paved Road
	Existing Unpaved Road
	Telephone Line
	High Tension Lines
	Low Tension Line
	Drain
	HFL Line
	Water Pipe Line
	Building
PLAN	
	R - Radius of Curve
	Dc - Degree of Curvature
	Lc - Length of Circular Curve
	Ts - Tangent Length
	ES - Apex Distance
	LS - Length of Spiral Curve
	S - Shift
	Delta - Deflection Angle
	V - Design Speed Km/Hr
	a% - Superelevation
	PC - Point of Curvature
	PT - Point of Tangent
	HP - Horizontal Intersection Point
L - PROFILE	
	G - Gradient %
	Lv - Length of Vertical Curve
	L - Length of Grade(m)
	R - Radius
	e - Superelevation (%)
	Lc - Straight Length of Horizontal Alignment
	Lc - Length of Circular Curve

R0	Dec. 2017	First Submission
Rev.	Date	Description on Revisions

 NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)	AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-		PROJECT:- Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A	 SIMPLEX INFRASTRUCTURES LTD 27, SHANESPEAR SAHANI, KOLKATA-71, INDIA	DESIGN CONSULTANT:-  Intercontinental Consultants & Technocrats Pvt Ltd, A-3, Green Park, New Delhi - 110016 Ph. : 0086-3000, Fax : 2085-5522	SCALE :-	TITLE:-
	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE					

TO JAMUGURIHAT —



Run	Time	Temp	Pressure	Flow	Conc	Yield	Quality	Notes
1	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
2	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
3	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
4	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
5	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
6	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
7	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
8	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
9	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
10	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
11	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
12	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
13	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
14	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
15	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
16	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
17	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
18	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
19	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
20	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
21	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
22	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
23	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
24	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
25	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
26	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
27	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
28	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
29	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
30	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
31	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
32	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
33	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
34	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
35	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
36	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
37	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
38	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
39	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
40	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
41	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
42	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
43	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
44	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
45	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0
46	10.0	100	1.0	1.0	1.0	1.0	1.0	1.0

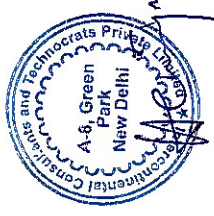
1. THE TAPERED PART OF THE SERVICE ROAD SHALL FOLLOW THE LONGITUDINAL GRADIENT OF THE MAIN CARRIAGEWAY TILL THE FULL WIDTH OF THE SERVICE ROAD STARTS.
2. AT SERVICE ROAD CHAINAGE 35+523 (MCW 35+526) CAMBER/CROSSFALL IS -2.5% (SLOPED OUTWARD)
3. AT SERVICE ROAD CHAINAGE 35+620 (MCW 35+620) CAMBER/CROSSFALL IS -2.5% (SLOPED OUTWARD)

R0	Dec. 2017	First Submission
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Rev.	Date	Description on Revisions
Revisions		

TITLE:- PLAN & LONGITUDINAL PROFILE OF SERVICE ROAD (RHS) (Km. 34+994 to Km. 35+523)	DRAWING NO.:-	REV
	NHIDCL/NH-37A/DOL-JMU/SR/PP/ 8	RO

ALIGNMENT REPORT



Horizontal alignment report (Left SR CH.: 17+300 to 20+500)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	17+496	482770.89	2947558.86	1500			17+452	17+540		88.45	2.50
2	17+555	482678.62	2947599.42	350			17+547	17+563		16.32	2.50
3	17+734	482543.46	2947717.46	550			17+613	17+852		239.39	2.50
4	17+891	482478.21	2947864.51	150			17+855	17+926		71.24	2.50
5	18+075	482488.84	2948049.79	475			17+958	18+188		230.53	2.50
6	18+470	482693.98	2948392.57	2000			18+387	18+553		166.26	2.50
7	18+957	482978.44	2948787.93	2500			18+867	19+048		180.79	2.50
8	19+318	483209.75	2949064.8	2000			19+230	19+406		176.05	2.50
9	19+652	483445.78	2949301.48	2000			19+547	19+757		210.39	2.50
10	19+892	483596.59	2949488.42	800			19+827	19+957		130.60	2.50
11	20+224	483844.38	2949709.6	820			20+121	20+326		205.45	2.50

Horizontal alignment report (Right SR CH.: 17+300 to 20+500)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	17+434	482792.21	2947546.67	2000			17+421	17+447		25.18	2.50
2	17+500	482742.72	2947589.9	350			17+493	17+506		12.83	2.50
3	17+554	482700.32	2947624.27	350			17+548	17+561		12.83	2.50
4	17+731	482567.33	2947740.43	290			17+632	17+823		190.54	2.50
5	17+828	482547.12	2947842.29	100			17+826	17+830		4.10	2.50
6	17+858	482542.39	2947872.59	100			17+851	17+866		15.28	2.50
7	17+997	482500.33	2948004.96	280			17+870	18+108		238.06	2.50
8	18+427	482733.42	2948384.03	2000			18+363	18+491		127.98	2.50
9	18+896	483007.59	2948765.1	2500			18+806	18+986		180.55	2.50
10	19+254	483236.91	2949039.64	2000			19+166	19+342		176.24	2.50
11	19+592	483476.09	2949279.48	2000			19+484	19+700		215.77	2.50
12	19+826	483622.46	2949461.91	750			19+764	19+888		124.44	2.50
13	20+161	483872.51	2949685.11	850			20+054	20+267		212.95	2.50
14	20+474	484047.86	2949946.14	400			20+464	20+484		20.37	2.50

Horizontal alignment report (Left SR CH.: 22+800 to 23+800)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	22+899	484647.68	2951971.05	750			22+800	22+997		196.10	2.50
2	23+455	484392.39	2952466.69	3000			23+432	23+479		47.02	2.50
3	23+787	484242.14	2952761.95	500			23+747	23+827		80.35	2.50

Horizontal alignment report (Right SR CH.: 22+800 to 23+800)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	22+905	484684.7	2951980.12	700			22+808	23+001		193.10	2.50
2	23+475	484422.7	2952488.48	2500			23+456	23+495		38.64	2.50
3	23+809	484265.53	2952782.18	800			23+691	23+925		233.89	2.50

Horizontal alignment report (Left SR CH.: 34+702 to 35+526)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	34+821	493203.5	2957118.83	950			34+715	34+927		212.81	2.50
2	34+937	493301.56	2957055.4	500			34+928	34+947		18.60	2.50
3	35+138	493473.54	2956953.03	200			35+116	35+159		43.11	2.50
4	35+274	493573.32	2956859.61	300			35+254	35+294		39.37	2.50
5	35+346	493631.55	2956817.93	5000			35+294	35+397		103.14	2.50

Horizontal alignment report (Right SR CH.: 34+702 to 35+526)

HIP No.	HIP Chainage (m)	Easting-X	Northing-Y	Radius (m)	Transition Length (m)	Transition Start Chainage (Km)	Circular Start Chainage (Km)	Circular End Chainage (Km)	Transition End Chainage (Km)	Lc-length of circular curve (m)	e : Super elevation (%)
1	34+835	493208.255	2957081.838	900			34+709	34+960		251.11	2.50
2	34+989	493333.749	2956990.591	400			34+961	35+017		56.62	2.50
3	35+115	493424.352	2956902.694	200			35+087	35+143		55.92	2.50
4	35+254	493547.500	2956836.911	800			35+208	35+300		92.29	2.50
5	35+522	493767.219	2956684.658	300			35+512	35+531		19.16	2.50

CLIENT:-  NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)	AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-		PROJECT:-
	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	AUTHORISED SIGNATORY	DATE	Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE, Phase A

BPC CONTRACTOR:-  SIMPLEX INFRASTRUCTURES LTD 27, SHAHAPUR SARANI, KOLKATA 71, INDIA		DESIGN CONSULTANT:-  J-8, Green Park, New Delhi - 110016 Ph : 4986-3000, Fax : 2685-5252	
Sumit Ranjan DRAWN	Rehan DESIGN	Team Lead CHECKED BY	Design Director APPROVED BY

TITLE:- HORIZONTAL ALIGNMENT REPORT OF SERVICE ROAD		SCALE:- N.T.S	DRAWING NO.:- NHDCI/NH-37A/DOI-JMU/HIP/1	REV. R0
R0 Dec. 2017 Rev. Date		First Submission Description on Revisions Revisions		



Vertical alignment report (Left SR CH: 17+300 to 20+500)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	17+361.453	69.238	.568	.807	Hog	60.000	74.400
2	17+603.763	68.659	-.739	.692	Hog	60.000	86.740
3	17+825.000	66.600	-.931	-1.485	Sag	80.000	53.895
4	18+144.306	68.368	.554	.254	Hog	100.000	394.106
5	18+439.297	69.253	.300	.600	Hog	150.000	249.944
6	18+690.106	68.500	-.300	-.600	Sag	300.000	499.817
7	19+010.389	69.461	.300	.700	Hog	200.000	285.608
8	19+245.513	68.520	-.400	-.900	Sag	200.000	222.192
9	19+424.946	69.417	.500	.891	Hog	70.000	78.580
10	19+622.290	68.646	-.391	-1.095	Sag	100.000	91.347
11	19+870.000	70.389	.704	1.395	Hog	180.000	129.048
12	20+109.215	68.736	-.691	-1.687	Sag	250.000	148.168
13	20+269.916	70.337	.996		Hog	60.000	85.915

Vertical alignment report (Right SR CH: 17+300 to 20+500)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	17+375.196	69.202	.416	0.650	Hog	90.000	138.498
2	17+561.329	68.767	-.234	0.443	Hog	60.000	134.148
3	17+911.697	66.380	-.681	-1.481	Sag	80.000	54.011
4	18+193.362	68.633	.800	0.500	Hog	100.000	200.000
5	18+409.289	69.281	.300	0.640	Hog	100.000	156.129
6	18+661.469	68.422	-.340	-0.640	Sag	100.000	156.137
7	18+940.660	69.260	.300	0.645	Hog	100.000	154.984
8	19+037.361	68.926	-.345	-0.645	Sag	60.000	92.915
9	19+125.521	69.191	.300	0.600	Hog	100.000	166.531
10	19+227.328	68.885	-.300	-0.800	Sag	60.000	75.000
11	19+342.399	69.461	.500	0.900	Hog	80.000	88.889
12	19+508.971	68.795	-.400	-0.844	Sag	100.000	118.483
13	19+802.765	70.099	.444	0.744	Hog	100.000	134.447
14	20+024.922	69.433	-.300	-1.112	Sag	100.000	89.974
15	20+252.371	71.279	0.812	1.190	Hog	100.000	84.059

Vertical alignment report (Left SR CH: 22+800 to 23+800)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	22+750.924	69.059	-.171	-0.634	Sag	80.000	126.249
2	22+903.628	69.766	.463	-0.738	Sag	60.000	81.286
3	22+967.341	70.531	1.201	0.701	Hog	50.000	71.327
4	23+129.662	71.343	.500	0.800	Hog	200.000	250.061
5	23+338.279	70.717	-.300	-0.600	Sag	100.000	166.712
6	23+663.525	71.693	.300	-0.440	Sag	60.000	136.301
7	23+785.009	72.592	.740	0.740	Hog	60.000	32.018

Vertical alignment report (Right SR CH: 22+800 to 23+800)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	22+742.832	70.251	.537	-0.504	Sag	70.000	138.859
2	22+817.564	71.029	1.041	1.341	Hog	40.000	29.827
3	23+098.871	70.185	-.300	-0.600	Sag	300.000	499.945
4	23+421.454	71.153	.300	0.600	Hog	200.000	333.304
5	23+605.775	70.600	-.300	-1.116	Sag	80.000	71.709
6	23+687.500	71.267	.816	1.332	Hog	50.000	36.448
7	23+779.566	70.755	-.556	-0.556	Sag	75.000	75.231

Vertical alignment report (Left SR CH: 34+702 to 35+526)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	34+661.958	73.154	.001	-0.848	Sag	40.000	47.195
2	34+717.440	73.625	.849	1.962	Hog	40.000	20.387
3	34+912.687	71.452	-1.113	-0.793	Sag	80.000	100.872
4	35+161.979	70.654	-.320	-2.120	Sag	60.000	28.302
5	35+337.918	73.821	1.800	1.800	Hog	100.000	41.788

Vertical alignment report (Right SR CH: 34+702 to 35+526)

Sl. No.	VIP Chainage	VIP Level (m)	Gradient (%)	% Change in grade	Type of Curve	Curve Length (m)	K Value
1	34+695.359	71.807	-.550	-0.850	Sag	100.000	117.663
2	34+870.956	72.334	.300	0.900	Hog	100.000	111.133
3	35+179.209	70.485	-.600	-3.600	Sag	60.000	16.667
4	35+275.892	73.385	3.000	2.759	Hog	70.000	25.372
5	35+466.995	73.846	.241	2.055	Hog	60.000	29.202



R0		Dec. 2017		First Submission	
Rev.		Date		Description on Revisions	
Revisions					
TITLE:-		SCALE :-		VERTICAL ALIGNMENT REPORT OF SERVICE ROAD	
DRAWING NO.:-		N.T.S		REV.	
NHIDCL/NH-37A/DOL-JMU/VIP/1		(A2)		R0	
PROJECT:-		EPC CONTRACTOR:-		DESIGN CONSULTANT:-	
Four Laning of Dolabari to Jamuguri Section from Km 17.300 of NH-37A to Km 182.000 of NH-52 in the State of Assam under SARDP- NE,Phase A		SIMPLEX INFRASTRUCTURES LTD 27, SHADAPUR SABONI, KOLKATA-71, India		Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016 PH : 4086-3000, Fax : 2685-5252	
AUTHORITY'S ENGINEER:-		PROOF CHECKED CONSULTANT:-		SAFETY CONSULTANT:-	
AUTHORISED SIGNATORY		AUTHORISED SIGNATORY		AUTHORISED SIGNATORY	
DATE		DATE		DATE	
NATIONAL HIGHWAYS & INFRASTRUCTURE (Development Corporation Ltd)		KOKSAMI CIVIL LTD. KOLKATA		SOLUTIONS KOLKATA	

SETOUT DATA



Sl. No.	Design Chainage (Km.)	Coordinates		Bearing		Radius (m)	
		Easting (X)	Northing (Y)	D	M	S	
1	17+300	482870.293	2947431.593	310	25	38.156	Straight
2	17+310	482862.681	2947438.077	310	25	38.156	Straight
3	17+320	482855.069	2947444.562	310	25	38.156	Straight
4	17+330	482847.456	2947451.047	310	25	38.156	Straight
5	17+340	482839.844	2947457.532	310	25	38.156	Straight
6	17+350	482832.232	2947464.017	310	25	38.156	Straight
7	17+360	482824.620	2947470.502	310	25	38.156	Straight
8	17+370	482817.007	2947477.986	310	25	38.156	Straight
9	17+380	482809.395	2947483.471	310	25	38.156	Straight
10	17+390	482801.783	2947489.956	310	25	38.156	Straight
11	17+400	482794.170	2947496.441	310	25	38.156	Straight
12	17+410	482786.558	2947502.926	310	25	38.156	Straight
13	17+420	482778.946	2947515.895	310	25	38.156	Straight
14	17+430	482771.333	2947522.380	310	25	38.156	Straight
15	17+440	482763.721	2947529.865	310	25	38.156	Straight
16	17+450	482756.109	2947536.366	310	25	38.156	Straight
17	17+460	482748.497	2947543.851	310	25	38.156	Straight
18	17+470	482740.885	2947551.336	310	25	38.156	Straight
19	17+480	482733.273	2947560.821	310	25	38.156	Straight
20	17+490	482725.661	2947568.306	310	25	38.156	Straight
21	17+500	482718.049	2947575.791	310	25	38.156	Straight
22	17+510	482710.437	2947585.276	310	25	38.156	Straight
23	17+520	482702.825	2947592.761	310	25	38.156	Straight
24	17+530	482695.213	2947600.246	310	25	38.156	Straight
25	17+540	482687.601	2947607.731	310	25	38.156	Straight
26	17+550	482680.000	2947615.216	310	25	38.156	Straight
27	17+560	482672.388	2947622.701	310	25	38.156	Straight
28	17+570	482664.776	2947630.186	310	25	38.156	Straight
29	17+580	482657.164	2947637.671	310	25	38.156	Straight
30	17+590	482649.552	2947645.156	310	25	38.156	Straight
31	17+600	482641.940	2947652.641	310	25	38.156	Straight
32	17+610	482634.328	2947660.126	310	25	38.156	Straight
33	17+620	482626.716	2947667.611	310	25	38.156	Straight
34	17+630	482619.104	2947675.096	310	25	38.156	Straight
35	17+640	482611.492	2947682.581	310	25	38.156	Straight
36	17+650	482603.880	2947690.066	310	25	38.156	Straight
37	17+660	482596.268	2947697.551	310	25	38.156	Straight
38	17+670	482588.656	2947705.036	310	25	38.156	Straight
39	17+680	482581.044	2947712.521	310	25	38.156	Straight
40	17+690	482573.432	2947720.006	310	25	38.156	Straight
41	17+700	482565.820	2947727.491	310	25	38.156	Straight
42	17+710	482558.208	2947734.976	310	25	38.156	Straight
43	17+720	482550.596	2947742.461	310	25	38.156	Straight
44	17+730	482542.984	2947750.946	310	25	38.156	Straight
45	17+740	482535.372	2947758.431	310	25	38.156	Straight
46	17+750	482527.760	2947762.916	310	25	38.156	Straight
47	17+760	482520.148	2947770.401	310	25	38.156	Straight
48	17+770	482512.536	2947777.886	310	25	38.156	Straight
49	17+780	482504.924	2947785.371	310	25	38.156	Straight
50	17+790	482497.312	2947792.856	310	25	38.156	Straight
51	17+800	482489.700	2947800.341	310	25	38.156	Straight
52	17+810	482482.088	2947807.826	310	25	38.156	Straight
53	17+820	482474.476	2947815.311	310	25	38.156	Straight
54	17+830	482466.864	2947822.796	310	25	38.156	Straight
55	17+840	482459.252	2947830.281	310	25	38.156	Straight
56	17+850	482451.640	2947837.766	310	25	38.156	Straight
57	17+860	482444.028	2947845.251	310	25	38.156	Straight
58	17+870	482436.416	2947852.736	310	25	38.156	Straight
59	17+880	482428.804	2947860.221	310	25	38.156	Straight
60	17+890	482421.192	2947867.706	310	25	38.156	Straight
61	17+900	482413.580	2947875.191	310	25	38.156	Straight
62	17+910	482405.968	2947882.676	310	25	38.156	Straight
63	17+920	482398.356	2947890.161	310	25	38.156	Straight
64	17+930	482390.744	2947897.646	310	25	38.156	Straight
65	17+940	482383.132	2947905.131	310	25	38.156	Straight

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing		Radius (m)	
		Easting (X)	Northing (Y)	D	M	S	
66	17+950	482375.520	2947912.616	310	25	38.156	Straight
67	17+960	482367.908	2947920.101	310	25	38.156	Straight
68	17+970	482360.296	2947927.586	310	25	38.156	Straight
69	17+980	482352.684	2947935.071	310	25	38.156	Straight
70	17+990	482345.072	2947942.556	310	25	38.156	Straight
71	18+000	482337.460	2947950.041	310	25	38.156	Straight
72	18+010	482329.848	2947957.526	310	25	38.156	Straight
73	18+020	482322.236	2947965.011	310	25	38.156	Straight
74	18+030	482314.624	2947972.496	310	25	38.156	Straight
75	18+040	482307.012	2947980.981	310	25	38.156	Straight
76	18+050	482299.400	2947988.466	310	25	38.156	Straight
77	18+060	482291.788	2947995.951	310	25	38.156	Straight
78	18+070	482284.176	2948003.436	310	25	38.156	Straight
79	18+080	482276.564	2948010.921	310	25	38.156	Straight
80	18+090	482268.952	2948018.406	310	25	38.156	Straight
81	18+100	482261.340	2948025.891	310	25	38.156	Straight
82	18+110	482253.728	2948033.376	310	25	38.156	Straight
83	18+120	482246.116	2948040.861	310	25	38.156	Straight
84	18+130	482238.504	2948048.346	310	25	38.156	Straight
85	18+140	482230.892	2948055.831	310	25	38.156	Straight
86	18+150	482223.280	2948063.316	310	25	38.156	Straight
87	18+160	482215.668	2948070.801	310	25	38.156	Straight
88	18+170	482208.056	2948078.286	310	25	38.156	Straight
89	18+180	482200.444	2948085.771	310	25	38.156	Straight
90	18+190	482192.832	2948093.256	310	25	38.156	Straight
91	18+200	482185.220	2948100.741	310	25	38.156	Straight
92	18+210	482177.608	2948108.226	310	25	38.156	Straight
93	18+220	482170.000	2948115.711	310	25	38.156	Straight
94	18+230	482162.388	2948123.196	310	25	38.156	Straight
95	18+240	482154.776	2948130.681	310	25	38.156	Straight
96	18+250	482147.164	2948138.166	310	25	38.156	Straight
97	18+260	482139.552	2948145.651	310	25	38.156	Straight
98	18+270	482131.940	2948153.136	310	25	38.156	Straight
99	18+280	482124.328	2948160.621	310	25	38.156	Straight
100	18+290	482116.716	2948168.106	310	25	38.156	Straight
101	18+300	482109.104	2948175.591	310	25	38.156	Straight
102	18+310	482101.492	2948183.076	310	25	38.156	Straight
103	18+320	482093.880	2948190.561	310	25	38.156	Straight
104	18+330	482086.268	2948198.046	310	25	38.156	Straight
105	18+340	482078.656	2948205.531	310	25	38.156	Straight
106	18+350	482071.044	2948213.016	310	25	38.156	Straight
107	18+360	482063.432	2948220.501	310	25	38.156	Straight
108	18+370	482055.820	2948227.986	310	25	38.156	Straight
109	18+380	482048.208	2948235.471	310	25	38.156	Straight
110	18+390	482040.596	2948242.956	310	25	38.156	Straight
111	18+400	482032.984	2948250.441	310	25	38.156	Straight
112	18+410	482025.372	2948257.926	310	25	38.156	Straight
113	18+420	482017.760	2948265.411	310	25	38.156	Straight
114	18+430	482010.148	2948272.896	310	25	38.156	Straight
115	18+440	482002.536	2948280.381	310	25	38.156	Straight
116	18+450	481994.924	2948287.866	310	25	38.156	Straight
117	18+460	481987.312	2948295.351	310	25	38.156	Straight
118	18+470	481979.700	2948302.836	310	25	38.156	Straight
119	18+480	481972.088	2948310.321	310	25	38.156	Straight
120	18+490	481964.476	2948317.806	310	25	38.156	Straight
121	18+500	481956.864	2948325.291	310	25	38.156	Straight
122	18+510	481949.252	2948332.776	310	25	38.156	Straight
123	18+520	481941.640	2948340.261	310	25	38.156	Straight
124	18+530	481934.028	2948347.746	310	25	38.156	Straight
125	18+540	481926.416	2948355.231	310	25	38.156	Straight
126	18+550	481918.804	2948362.716	310	25	38.156	Straight
127	18+560	481911.192	2948370.201	310	25	38.156	Straight
128	18+570	481903.580	2948377.686	310	25	38.156	Straight
129	18+580	481895.968	2948385.171	310	25	38.156	Straight
130	18+590	481888.356	2948392.656	310	25	38.156	Straight

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing			Radius (m)
		Easting (X)	Northing (Y)	D	M	S	
131	18+600	482769.755	2948497.889	35	44	3.278	Straight
132	18+610	482775.595	2948506.006	35	44	3.278	Straight
133	18+620	482781.435	2948514.123	35	44	3.278	Straight
134	18+630	482787.275	2948522.241	35	44	3.278	Straight
135	18+640	482793.116	2948530.358	35	44	3.278	Straight
136	18+650	482798.956	2948538.475	35	44	3.278	Straight
137	18+660	482804.796	2948546.593	35	44	3.278	Straight
138	18+670	482810.637	2948554.711	35	44	3.278	Straight
139	18+680	482816.477	2948562.827	35	44	3.278	Straight
140	18+690	482822.317	2948570.945	35	44	3.278	Straight
141	18+700	482828.157	2948579.062	35	44	3.278	Straight
142	18+710	482833.998	2948587.179	35	44	3.278	Straight
143	18+720	482839.838	2948595.297	35	44	3.278	Straight
144	18+730	482845.678	2948603.414	35	44	3.278	Straight
145	18+740	482851.518	2948611.531	35	44	3.278	Straight
146	18+750	482857.359	2948627.669	35	44	3.278	Straight
147	18+760	482863.199	2948635.883	35	44	3.278	Straight
148	18+770	482869.039	2948644.001	35	44	3.278	Straight
149	18+780	482874.879	2948652.118	35	44	3.278	Straight
150	18+790	482880.720	2948659.235	35	44	3.278	Straight
151	18+800	482886.560	2948667.353	35	44	3.278	Straight
152	18+810	482892.400	2948675.471	35	44	3.278	Straight
153	18+820	482898.240	2948683.589	35	44	3.278	Straight
154	18+830	482904.081	2948691.707	35	44	3.278	Straight
155	18+840	482909.921	2948699.825	35	44	3.278	Straight
156	18+850	482915.761	2948707.943	35	44	3.278	Straight
157	18+860	482921.602	2948715.061	35	44	3.278	Straight
158	18+870	482927.442	2948723.179	35	44	3.278	Straight
159	18+880	482933.283	2948729.297	36	2	5.946	2500.000
160	18+890	482939.124	2948737.415	36	15	51.005	2500.000
161	18+900	482945.064	2948745.533	36	29	36.065	2500.000
162	18+910	482951.004	2948753.651	36	43	21.124	2500.000
163	18+920	482956.944	2948761.769	37	57	6.183	2500.000
164	18+930	482962.884	2948775.887	37	10	51.242	2500.000
165	18+940	482968.824	2948787.005	37	24	36.301	2500.000
166	18+950	482974.764	2948795.123	37	38	21.361	2500.000
167	18+960	482980.704	2948803.241	38	19	36.538	2500.000
168	18+970	482986.644	2948811.359	38	5	51.479	2500.000
169	18+980	482992.584	2948823.477	38	19	36.538	2500.000
170	18+990	482998.524	2948831.595	38	33	21.598	2500.000
171	19+000	483004.464	2948843.713	38	47	6.657	2500.000
172	19+010	483010.404	2948851.831	39	0	51.716	2500.000
173	19+020	483016.344	2948863.949	39	14	36.775	2500.000
174	19+030	483022.284	2948876.067	39	28	21.834	2500.000
175	19+040	483028.224	2948888.185	39	42	6.894	2500.000
176	19+050	483034.164	2948900.303	39	52	39.698	Straight
177	19+060	483040.104	2948912.421	39	52	39.698	Straight
178	19+070	483046.044	2948924.539	39	52	39.698	Straight
179	19+080	483051.984	2948936.657	39	52	39.698	Straight
180	19+090	483057.924	2948948.775	39	52	39.698	Straight
181	19+100	483063.864	2948960.893	39	52	39.698	Straight
182	19+110	483069.804	2948973.011	39	52	39.698	Straight
183	19+120	483075.744	2948985.129	39	52	39.698	Straight
184	19+130	483081.684	2948997.247	39	52	39.698	Straight
185	19+140	483087.624	2949009.365	39	52	39.698	Straight
186	19+150	483093.564	2949021.483	39	52	39.698	Straight
187	19+160	483099.504	2949033.601	39	52	39.698	Straight
188	19+170	483105.444	2949045.719	39	52	39.698	Straight
189	19+180	483111.384	2949057.837	39	52	39.698	Straight
190	19+190	483117.324	2949069.955	39	52	39.698	Straight
191	19+200	483123.264	2949081.073	39	52	39.698	Straight
192	19+210	483129.204	2949093.191	39	52	39.698	Straight
193	19+220	483135.144	2949105.309	39	52	39.698	Straight
194	19+230	483141.084	2949117.427	39	52	46.360	2000.000
195	19+240	483147.024	2949129.545	40	9	57.684	2000.000

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing		Radius (m)
		Easting (X)	Northing (Y)	D	M	S
261	19+900	483604.065	2949497.342	44	8	37.041
262	19+910	483611.074	2949499.475	44	51	35.351
263	19+920	483618.172	2949506.519	45	34	33.652
264	19+930	483625.357	2949513.473	46	17	31.972
265	19+940	483632.629	2949520.338	47	0	30.282
266	19+950	483639.986	2949527.111	47	43	28.592
267	19+960	483647.424	2949533.795	48	14	50.450
268	19+970	483654.884	2949540.454	48	14	50.450
269	19+980	483662.345	2949547.113	48	14	50.450
270	19+990	483669.805	2949553.772	48	14	50.450
271	20+000	483677.265	2949560.432	48	14	50.450
272	20+010	483684.725	2949567.091	48	14	50.450
273	20+020	483692.186	2949573.750	48	14	50.450
274	20+030	483699.646	2949580.409	48	14	50.450
275	20+040	483707.106	2949587.068	48	14	50.450
276	20+050	483714.566	2949593.727	48	14	50.450
277	20+060	483722.027	2949600.386	48	14	50.450
278	20+070	483729.487	2949607.046	48	14	50.450
279	20+080	483736.947	2949613.705	48	14	50.450
280	20+090	483744.407	2949620.364	48	14	50.450
281	20+100	483751.868	2949627.023	48	14	50.450
282	20+110	483759.328	2949633.682	48	14	50.450
283	20+120	483766.788	2949640.341	48	14	50.450
284	20+130	483774.214	2949647.039	47	36	2.670
285	20+140	483781.557	2949653.827	46	54	7.245
286	20+150	483788.817	2949660.704	46	12	11.821
287	20+160	483795.993	2949667.669	45	30	16.396
288	20+170	483803.083	2949674.721	44	48	25.547
289	20+180	483810.086	2949681.859	44	6	25.547
290	20+190	483817.002	2949688.081	43	24	30.123
291	20+200	483823.830	2949696.388	42	42	34.699
292	20+210	483830.568	2949703.777	42	0	39.274
293	20+220	483837.215	2949711.248	41	18	43.850
294	20+230	483843.771	2949718.759	40	36	48.425
295	20+240	483850.234	2949726.430	39	54	53.001
296	20+250	483856.603	2949734.139	39	12	57.576
297	20+260	483862.878	2949741.925	38	31	2.152
298	20+270	483869.058	2949749.787	37	49	6.727
299	20+280	483875.141	2949757.723	37	7	11.303
300	20+290	483881.127	2949765.734	36	25	15.878
301	20+300	483887.015	2949773.816	35	43	20.454
302	20+310	483892.804	2949781.970	35	1	25.029
303	20+320	483898.493	2949790.194	34	19	29.605
304	20+330	483904.089	2949798.482	33	53	32.220
305	20+340	483909.665	2949806.783	33	53	32.220
306	20+350	483915.242	2949815.084	33	53	32.220
307	20+360	483920.818	2949823.385	33	53	32.220
308	20+370	483926.394	2949831.686	33	53	32.220
309	20+380	483931.971	2949839.987	33	53	32.220
310	20+390	483937.547	2949848.287	33	53	32.220
311	20+400	483943.123	2949856.588	33	53	32.220
312	20+410	483948.700	2949864.889	33	53	32.220
313	20+420	483954.276	2949873.190	33	53	32.220
314	20+430	483959.852	2949881.491	33	53	32.220
315	20+440	483965.429	2949889.792	33	53	32.220
316	20+450	483971.005	2949898.093	33	53	32.220
317	20+460	483976.581	2949906.394	33	53	32.220
318	20+470	483982.158	2949914.694	33	53	32.220
319	20+480	483987.734	2949922.995	33	53	32.220
320	20+490	483993.310	2949931.296	33	53	32.220
321	20+500	483998.887	2949939.597	33	53	32.220
322	22+800	484668.722	2951874.282	347	43	45.460
323	22+810	484666.537	2951884.040	346	59	48.770
324	22+820	484664.222	2951893.768	346	13	58.573
325	22+830	484661.777	2951903.465	345	28	8.375

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing		Radius (m)
		Easting (X)	Northing (Y)	D	M	S
326	22+840	484659.204	2951913.128	344	42	18.178
327	22+850	484656.502	2951922.756	343	56	27.980
328	22+860	484653.672	2951932.347	343	10	37.783
329	22+870	484650.714	2951941.899	342	24	47.585
330	22+880	484647.629	2951951.412	341	38	57.388
331	22+890	484644.417	2951960.882	340	53	7.191
332	22+900	484641.080	2951970.308	340	7	16.993
333	22+910	484637.617	2951979.690	339	21	26.796
334	22+920	484634.029	2951989.024	338	35	36.598
335	22+930	484630.318	2951998.309	337	49	46.401
336	22+940	484626.482	2952007.545	337	3	56.204
337	22+950	484622.524	2952016.728	336	18	6.006
338	22+960	484618.444	2952025.857	335	32	15.809
339	22+970	484614.243	2952034.932	334	46	25.611
340	22+980	484609.920	2952043.950	334	0	35.414
341	22+990	484605.478	2952052.909	333	14	45.216
342	23+000	484600.925	2952061.812	332	44	53.884
343	23+010	484596.346	2952070.702	332	44	53.884
344	23+020	484591.767	2952079.592	332	44	53.884
345	23+030	484587.188	2952088.482	332	44	53.884
346	23+040	484582.609	2952097.372	332	44	53.884
347	23+050	484578.030	2952106.262	332	44	53.884
348	23+060	484573.451	2952115.152	332	44	53.884
349	23+070	484568.872	2952124.042	332	44	53.884
350	23+080	484564.293	2952132.932	332	44	53.884
351	23+090	484559.714	2952141.822	332	44	53.884
352	23+100	484555.135	2952150.712	332	44	53.884
353	23+110	484550.556	2952159.602	332	44	53.884
354	23+120	484545.977	2952168.492	332	44	53.884
355	23+130	484541.398	2952177.382	332	44	53.884
356	23+140	484536.819	2952186.272	332	44	53.884
357	23+150	484532.240	2952195.162	332	44	53.884
358	23+160	484527.661	2952204.052	332	44	53.884
359	23+170	484523.082	2952212.942	332	44	53.884
360	23+180	484518.503	2952221.832	332	44	53.884
361	23+190	484513.924	2952230.722	332	44	53.884
362	23+200	484509.345	2952239.612	332	44	53.884
363	23+210	484504.766	2952248.502	332	44	53.884
364	23+220	484500.187	2952257.392	332	44	53.884
365	23+230	484495.608	2952266.283	332	44	53.884
366	23+240	484491.029	2952275.173	332	44	53.884
367	23+250	484486.450	2952284.063	332	44	53.884
368	23+260	484481.871	2952292.953	332	44	53.884
369	23+270	484477.292	2952301.843	332	44	53.884
370	23+280	484472.713	2952310.733	332	44	53.884
371	23+290	484468.134	2952319.623	332	44	53.884
372	23+300	484463.555	2952328.513	332	44	53.884
373	23+310	484458.976	2952337.403	332	44	53.884
374	23+320	484454.397	2952346.293	332	44	53.884
375	23+330	484449.818	2952355.183	332	44	53.884
376	23+340	484445.239	2952364.073	332	44	53.884
377	23+350	484440.660	2952372.963	332	44	53.884
378	23+360	484436.081	2952381.853	332	44	53.884
379	23+370	484431.502	2952390.743	332	44	53.884
380	23+380	484426.923	2952399.633	332	44	53.884
381	23+390	484422.344	2952408.523	332	44	53.884
382	23+400	484417.765	2952417.413	332	44	53.884
383	23+410	484413.186	2952426.303	332	44	53.884
384	23+420	484408.607	2952435.193	332	44	53.884
385	23+430	484404.028	2952444.083	332	44	53.884
386	23+440	484399.439	2952452.968	332	35	38.093
387	23+450	484394.821	2952461.858	332	24	10.544
388	23+460	484390.174	2952470.693	332	12	42.995
389	23+470	484385.497	2952479.532	332	1	15.445
390	23+480	484380.791	2952488.355	331	51	1.146

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing			Radius (m)
		Easting (X)	Northing (Y)	D	M	S	
391	23+490	484376.073	2952497.172	331	51	1.146	Straight
392	23+500	484371.356	2952505.990	331	51	1.146	
393	23+510	484366.638	2952514.807	331	51	1.146	Straight
394	23+520	484361.920	2952523.624	331	51	1.146	
395	23+530	484357.202	2952532.441	331	51	1.146	Straight
396	23+540	484352.484	2952541.258	331	51	1.146	
397	23+550	484347.767	2952550.075	331	51	1.146	Straight
398	23+560	484343.049	2952558.893	331	51	1.146	
399	23+570	484338.331	2952567.710	331	51	1.146	Straight
400	23+580	484333.613	2952575.527	331	51	1.146	
401	23+590	484328.896	2952583.344	331	51	1.146	Straight
402	23+600	484324.178	2952591.161	331	51	1.146	
403	23+610	484319.460	2952602.979	331	51	1.146	Straight
404	23+620	484314.742	2952611.796	331	51	1.146	
405	23+630	484310.025	2952620.613	331	51	1.146	Straight
406	23+640	484305.307	2952629.430	331	51	1.146	
407	23+650	484300.589	2952638.247	331	51	1.146	Straight
408	23+660	484295.873	2952647.065	331	53	32.701	
409	23+670	484291.173	2952655.892	332	3	12.621	2587.892
410	23+680	484286.506	2952664.736	332	20	6.683	
411	23+690	484281.893	2952673.609	332	44	15.186	1238.438
412	23+700	484277.351	2952682.518	333	15	37.832	
413	23+710	484272.901	2952691.473	333	54	14.719	813.986
414	23+720	484268.560	2952700.482	334	40	5.847	
415	23+730	484264.350	2952709.552	335	33	11.218	606.217
416	23+740	484260.400	2952718.691	336	33	30.830	
417	23+750	484256.401	2952727.903	337	40	40.247	537.605
418	23+760	484252.655	2952737.191	338	49	25.543	
419	23+770	484248.176	2952746.551	339	58	10.840	500.000
420	23+780	484243.845	2952755.980	341	6	56.136	
421	23+790	484242.704	2952765.473	342	15	41.432	500.000
422	23+800	484239.752	2952775.028	343	24	26.728	
423	34+700	493089.352	2957160.374	108	27	3.674	325.000
424	34+710	493098.789	2957157.065	110	3	36.755	
425	34+720	493108.177	2957153.620	110	23	5.122	950.000
426	34+730	493117.532	2957150.088	110	59	16.331	
427	34+740	493126.648	2957146.457	111	35	27.539	950.000
428	34+750	493136.128	2957142.728	112	11	38.747	
429	34+760	493145.367	2957138.907	112	47	49.956	950.000
430	34+770	493154.566	2957134.979	113	24	1.164	
431	34+780	493163.722	2957130.959	114	0	12.373	950.000
432	34+790	493172.836	2957126.843	114	36	23.581	
433	34+800	493181.905	2957122.632	115	18	34.790	950.000
434	34+810	493190.930	2957118.325	115	48	45.998	
435	34+820	493199.910	2957113.923	116	24	57.207	950.000
436	34+830	493208.842	2957109.427	117	31	8.415	
437	34+840	493217.726	2957104.838	117	37	19.624	950.000
438	34+850	493226.562	2957100.155	118	13	30.832	
439	34+860	493235.348	2957095.379	118	49	42.041	950.000
440	34+870	493244.083	2957090.511	119	25	53.249	
441	34+880	493252.766	2957085.552	120	2	4.458	950.000
442	34+890	493261.397	2957080.501	120	38	15.666	
443	34+900	493269.974	2957075.360	121	14	26.875	950.000
444	34+910	493278.497	2957070.121	121	50	38.083	
445	34+920	493286.964	2957064.808	122	26	49.292	950.000
446	34+930	493295.378	2957059.404	122	40	23.243	
447	34+940	493303.849	2957054.090	121	31	37.947	-500.000
448	34+950	493312.419	2957048.937	120	45	47.906	
449	34+960	493321.012	2957043.823	120	45	47.906	Straight
450	34+970	493329.605	2957038.708	120	45	47.906	
451	34+980	493338.198	2957033.593	120	45	47.906	Straight
452	34+990	493346.791	2957028.478	120	45	47.906	
453	35+000	493355.974	2957023.363	120	45	47.906	Straight
454	35+010	493363.986	2957018.248	120	45	47.906	
455	35+020	493372.569	2957013.133	120	45	47.906	Straight

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing			Radius (m)	
		Easting (X)	Northing (Y)	D	M	S		
1	17+300	482894.280	2947459.764	310	24	46.325	Straight	
2	17+310	482886.665	2947466.247	310	24	46.325	Straight	
3	17+320	482879.052	2947472.730	310	24	46.325	Straight	
4	17+330	482871.439	2947479.213	310	24	46.325	Straight	
5	17+340	482863.825	2947485.696	310	24	46.325	Straight	
6	17+350	482856.211	2947492.179	310	24	46.325	Straight	
7	17+360	482848.597	2947498.662	310	24	46.325	Straight	
8	17+370	482840.983	2947505.145	310	24	46.325	Straight	
9	17+380	482833.369	2947511.628	310	24	46.325	Straight	
10	17+390	482825.755	2947518.111	310	24	46.325	Straight	
11	17+400	482818.141	2947524.593	310	24	46.325	Straight	
12	17+410	482810.527	2947531.076	310	24	46.325	Straight	
13	17+420	482802.913	2947537.559	310	24	46.325	Straight	
14	17+430	482795.311	2947544.055	310	39	26.684	2000.000	
15	17+440	482787.741	2947550.590	310	56	38.008	2000.000	
16	17+450	482780.202	2947557.160	311	8	3.086	Straight	
17	17+460	482772.671	2947563.739	311	8	3.086	Straight	
18	17+470	482765.139	2947570.317	311	8	3.086	Straight	
19	17+480	482757.607	2947576.895	311	8	3.086	Straight	
20	17+490	482750.075	2947583.473	311	8	3.086	Straight	
21	17+500	482742.502	2947590.004	310	2	44.284	-350.000	
22	17+510	482734.969	2947596.344	309	2	0.784	Straight	
23	17+520	482727.402	2947602.641	309	2	0.784	Straight	
24	17+530	482719.834	2947608.939	309	2	0.784	Straight	
25	17+540	482712.266	2947615.237	309	2	0.784	Straight	
26	17+550	482704.702	2947621.539	309	22	22.104	350.000	
27	17+560	482697.134	2947627.841	311	0	35.384	350.000	
28	17+570	482689.566	2947634.143	311	8	2.799	Straight	
29	17+580	482682.000	2947640.445	311	8	2.799	Straight	
30	17+590	482674.433	2947646.747	311	8	2.799	Straight	
31	17+600	482666.866	2947653.049	311	8	2.799	Straight	
32	17+610	482659.299	2947659.351	311	8	2.799	Straight	
33	17+620	482651.732	2947665.653	311	8	2.799	Straight	
34	17+630	482644.165	2947671.955	311	8	2.799	Straight	
35	17+640	482636.598	2947678.257	312	42	3.945	290.000	
36	17+650	482629.031	2947684.559	314	40	36.524	290.000	
37	17+660	482621.464	2947690.861	316	39	9.104	290.000	
38	17+670	482613.897	2947697.163	318	37	41.683	290.000	
39	17+680	482606.330	2947703.465	320	36	14.263	290.000	
40	17+690	482598.763	2947709.767	322	34	46.842	290.000	
41	17+700	482591.196	2947716.069	324	33	19.422	290.000	
42	17+710	482583.629	2947722.371	326	31	52.001	290.000	
43	17+720	482576.062	2947730.673	328	30	24.581	290.000	
44	17+730	482568.495	2947742.975	330	28	57.160	290.000	
45	17+740	482560.928	2947757.277	332	27	29.740	290.000	
46	17+750	482553.361	2947768.579	334	26	2.319	290.000	
47	17+760	482545.794	2947777.881	336	24	34.899	290.000	
48	17+770	482538.227	2947789.183	338	23	7.478	290.000	
49	17+780	482530.660	2947800.485	340	21	40.058	290.000	
50	17+790	482523.093	2947805.787	342	20	12.637	290.000	
51	17+800	482515.526	2947812.089	344	18	45.217	290.000	
52	17+810	482507.959	2947818.391	346	17	17.797	290.000	
53	17+820	482500.392	2947824.693	348	15	50.376	290.000	
54	17+830	482492.825	2947830.995	351	7	34.004	Straight	
55	17+840	482485.258	2947837.297	351	7	34.004	Straight	
56	17+850	482477.691	2947843.599	351	7	34.004	Straight	
57	17+860	482470.124	2947849.901	351	7	34.004	Straight	
58	17+870	482462.557	2947856.203	351	7	34.004	Straight	
59	17+880	482454.990	2947862.505	351	7	34.004	Straight	
60	17+890	482447.423	2947868.807	351	7	34.004	Straight	
61	17+900	482439.856	2947875.109	351	7	34.004	Straight	
62	17+910	482432.289	2947881.411	351	7	34.004	Straight	
63	17+920	482424.722	2947887.713	351	7	34.004	Straight	
64	17+930	482417.155	2947894.015	351	7	34.004	Straight	
65	17+940	482409.588	2947900.317	351	7	34.004	Straight	

Sl. No.	Design Chainage (Km.)	Coordinates		Bearing			Radius (m)	
		Easting (X)	Northing (Y)	D	M	S		
66	17+950	482402.021	2947906.617	358	39	55.809	280.000	
67	17+960	482394.454	2947912.919	0	42	42.409	280.000	
68	17+970	482386.887	2947919.221	2	45	29.009	280.000	
69	17+980	482379.320	2947925.523	4	48	15.609	280.000	
70	17+990	482371.753	2947931.825	6	51	2.209	280.000	
71	18+000	482364.186	2947938.127	8	53	48.810	280.000	
72	18+010	482356.619	2947944.429	10	56	35.410	280.000	
73	18+020	482349.052	2947950.731	12	59	22.010	280.000	
74	18+030	482341.485	2947957.033	15	2	8.610	280.000	
75	18+040	482333.918	2947963.335	17	4	55.211	280.000	
76	18+050	482326.351	2947969.637	19	7	41.811	280.000	
77	18+060	482318.784	2947975.939	21	10	28.411	280.000	
78	18+070	482311.217	2947982.241	23	13	15.011	280.000	
79	18+080	482303.650	2947988.543	25	16	1.611	280.000	
80	18+090	482296.083	2947994.845	27	18	48.212	280.000	
81	18+100	482288.516	2948001.147	29	21	34.812	280.000	
82	18+110	482280.949	2948007.449	31	5	6.261	Straight	
83	18+120	482273.382	2948013.751	31	5	6.261	Straight	
84	18+130	482265.815	2948020.053	31	5	6.261	Straight	
85	18+140	482258.248	2948026.355	31	5	6.261	Straight	
86	18+150	482250.681	2948032.657	31	5	6.261	Straight	
87	18+160	482243.114	2948038.959	31	5	6.261	Straight	
88	18+170	482235.547	2948045.261	31	5	6.261	Straight	
89	18+180	482227.980	2948051.563	31	5	6.261	Straight	
90	18+190	482220.413	2948057.865	31	5	6.261	Straight	
91	18+200	482212.846	2948064.167	31	5	6.261	Straight	
92	18+210	482205.279	2948070.469	31	5	6.261	Straight	
93	18+220	482197.712	2948076.771	31	5	6.261	Straight	
94	18+230	482190.145	2948083.073	31	5	6.261	Straight	
95	18+240	482182.578	2948089.375	31	5	6.261	Straight	
96	18+250	482175.011	2948095.677	31	5	6.261	Straight	
97	18+260	482167.444	2948101.979	31	5	6.261	Straight	
98	18+270	482159.877	2948118.281	31	5	6.261	Straight	
99	18+280	482152.310	2948124.583	31	5	6.261	Straight	
100	18+290	482144.743	2948130.885	31	5	6.261	Straight	
101	18+300	482137.176	2948137.187	31	5	6.261	Straight	
102	18+310	482129.609	2948143.489	31	5	6.261	Straight	
103	18+320	482122.042	2948149.791	31	5	6.261	Straight	
104	18+330	482114.475	2948156.093	31	5	6.261	Straight	
105	18+340	482106.908	2948162.395	31	5	6.261	Straight	
106	18+350	482100.341	2948168.697	31	5	6.261	Straight	
107	18+360	482092.774	2948174.999	31	5	6.261	Straight	
108	18+370	482085.207	2948181.301	31	5	6.261	Straight	
109	18+380	482077.640	2948187.603	31	5	6.261	Straight	
110	18+390	482070.073	2948193.905	31	5	6.261	Straight	
111	18+400	482062.506	2948199.207	31	5	6.261	Straight	
112	18+410	482054.939	2948205.509	31	5	6.261	Straight	
113	18+420	482047.372	2948211.811	31	5	6.261	Straight	
114	18+430	482039.805	2948218.113	31	5	6.261	Straight	
115	18+440	482032.238	2948224.415	31	5	6.261	Straight	
116	18+450	482024.671	2948230.717	31	5	6.261	Straight	
117	18+460	482017.104	2948237.019	31	5	6.261	Straight	
118	18+470	482009.537	2948243.321	31	5	6.261	Straight	
119	18+480	482001.970	2948249.623	31	5	6.261	Straight	
120	18+490	481994.403	2948255.925	31	5	6.261	Straight	
121	18+500	481986.836	2948262.227	31	5	6.261	Straight	
122	18+510	481979.269	2948268.529	31	5	6.261	Straight	
123	18+520	481971.702	2948274.831	31	5	6.261	Straight	
124	18+530	481964.135	2948281.133	31	5	6.261	Straight	
125	18+540	481956.568	2948287.435	31	5	6.261	Straight	
126	18+550	481948.999	2948293.737	31	5	6.261	Straight	
127	18+560	481941.432	2948300.039	31	5	6.261	Straight	
128	18+570	481933.865	2948306.341	31	5	6.261	Straight	
129	18+580	481926.298	2948312.643	31	5	6.261	Straight	
130	18+590	481918.731	2948318.945	31	5	6.261	Straight	

Sl. No.	Design Chainage (Km.)	Coordinates	
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Sl. No.	Design Chainage (Km.)	Coordinates		Bearing		Radius (m)
		Easting (X)	Northing (Y)	D	M	S
261	19+900	483677.851	2949511.358	48	14	48.234
262	19+910	483685.312	2949518.017	48	14	48.234
263	19+920	483692.772	2949524.677	48	14	48.234
264	19+930	483700.232	2949531.336	48	14	48.234
265	19+940	483707.692	2949537.995	48	14	48.234
266	19+950	483715.152	2949544.654	48	14	48.234
267	19+960	483722.612	2949551.314	48	14	48.234
268	19+970	483730.072	2949557.973	48	14	48.234
269	19+980	483737.533	2949564.632	48	14	48.234
270	19+990	483744.993	2949571.291	48	14	48.234
271	20+000	483752.453	2949577.950	48	14	48.234
272	20+010	483759.914	2949584.610	48	14	48.234
273	20+020	483767.374	2949591.269	48	14	48.234
274	20+030	483774.834	2949597.928	48	14	48.234
275	20+040	483782.294	2949604.587	48	14	48.234
276	20+050	483789.754	2949611.247	48	14	48.234
277	20+060	483797.214	2949617.906	47	50	4.523
278	20+070	483804.674	2949624.566	47	9	37.878
279	20+080	483812.134	2949631.225	46	29	11.234
280	20+090	483819.594	2949637.884	45	48	44.589
281	20+100	483826.654	2949644.543	45	8	17.944
282	20+110	483833.714	2949651.202	44	27	51.299
283	20+120	483840.774	2949657.861	43	47	24.655
284	20+130	483847.834	2949664.520	43	6	58.010
285	20+140	483854.894	2949671.179	42	26	31.365
286	20+150	483861.954	2949677.838	41	46	4.720
287	20+160	483869.014	2949684.497	41	5	38.075
288	20+170	483876.074	2949691.156	40	25	11.431
289	20+180	483883.134	2949697.815	39	44	44.786
290	20+190	483890.194	2949704.474	39	4	18.141
291	20+200	483897.254	2949711.133	38	23	51.496
292	20+210	483904.314	2949717.792	37	43	24.852
293	20+220	483911.374	2949724.451	37	2	58.207
294	20+230	483918.434	2949731.110	36	22	31.562
295	20+240	483925.494	2949737.769	35	42	4.917
296	20+250	483932.554	2949744.428	35	1	38.272
297	20+260	483939.614	2949751.087	34	21	11.628
298	20+270	483946.674	2949757.746	33	53	31.963
299	20+280	483953.734	2949764.405	33	53	31.963
300	20+290	483960.794	2949771.064	33	53	31.963
301	20+300	483967.854	2949777.723	33	53	31.963
302	20+310	483974.914	2949784.382	33	53	31.963
303	20+320	483981.974	2949791.041	33	53	31.963
304	20+330	483989.034	2949797.700	33	53	31.963
305	20+340	483996.094	2949803.359	33	53	31.963
306	20+350	483999.154	2949810.018	33	53	31.963
307	20+360	484006.214	2949816.677	33	53	31.963
308	20+370	484013.274	2949823.336	33	53	31.963
309	20+380	484020.334	2949830.000	33	53	31.963
310	20+390	484027.394	2949836.664	33	53	31.963
311	20+400	484034.454	2949843.323	33	53	31.963
312	20+410	484041.514	2949849.982	33	53	31.963
313	20+420	484048.574	2949856.641	33	53	31.963
314	20+430	484055.634	2949863.300	33	53	31.963
315	20+440	484062.694	2949869.959	33	53	31.963
316	20+450	484069.754	2949876.618	33	53	31.963
317	20+460	484076.814	2949883.277	33	53	31.963
318	20+470	484083.874	2949890.000	33	53	31.963
319	20+480	484090.934	2949896.659	33	53	31.963
320	20+490	484097.994	2949903.318	33	53	31.963
321	20+500	484105.054	2949909.977	33	53	31.963
322	20+510	484112.114	2949916.636	33	53	31.963
323	20+520	484119.174	2949923.295	33	53	31.963
324	20+530	484126.234	2949929.954	33	53	31.963
325	20+540	484133.294	2949936.613	33	53	31.963
326	20+550	484140.354	2949943.272	33	53	31.963
327	20+560	484147.414	2949950.000	33	53	31.963
328	20+570	484154.474	2949956.659	33	53	31.963
329	20+580	484161.534	2949963.318	33	53	31.963
330	20+590	484168.594	2949969.977	33	53	31.963
331	20+600	484175.654	2949976.636	33	53	31.963
332	20+610	484182.714	2949983.295	33	53	31.963
333	20+620	484189.774	2949990.000	33	53	31.963
334	20+630	484196.834	2950000.000	33	53	31.963
335	20+640	484203.894	2950000.000	33	53	31.963
336	20+650	484210.954	2950000.000	33	53	31.963
337	20+660	484218.014	2950000.000	33	53	31.963
338	20+670	484225.074	2950000.000	33	53	31.963
339	20+680	484232.134	2950000.000	33	53	31.963
340	20+690	484239.194	2950000.000	33	53	31.963
341	20+700	484246.254	2950000.000	33	53	31.963
342	20+710	484253.314	2950000.000	33	53	31.963
343	20+720	484260.374	2950000.000	33	53	31.963
344	20+730	484267.434	2950000.000	33	53	31.963
345	20+740	484274.494	2950000.000	33	53	31.963
346	20+750	484281.554	2950000.000	33	53	31.963
347	20+760	484288.614	2950000.000	33	53	31.963
348	20+770	484295.674	2950000.000	33	53	31.963
349	20+780	484302.734	2950000.000	33	53	31.963
350	20+790	484309.794	2950000.000	33	53	31.963
351	20+800	484316.854	2950000.000	33	53	31.963
352	20+810	484323.914	2950000.000	33	53	31.963
353	20+820	484330.974	2950000.000	33	53	31.963
354	20+830	484338.034	2950000.000	33	53	31.963
355	20+840	484345.094	2950000.000	33	53	31.963
356	20+850	484352.154	2950000.000	33	53	31.963
357	20+860	484359.214	2950000.000	33	53	31.963
358	20+870	484366.274	2950000.000	33	53	31.963
359	20+880	484373.334	2950000.000	33	53	31.963
360	20+890	484380.394	2950000.000	33	53	31.963
361	20+900	484387.454	2950000.000	33	53	31.963
362	20+910	484394.514	2950000.000	33	53	31.963
363	20+920	484401.574	2950000.000	33	53	31.963
364	20+930	484408.634	2950000.000	33	53	31.963
365	20+940	484415.694	2950000.000	33	53	31.963
366	20+950	484422.754	2950000.000	33	53	31.963
367	20+960	484429.814	2950000.000	33	53	31.963
368	20+970	484436.874	2950000.000	33	53	31.963
369	20+980	484443.934	2950000.000	33	53	31.963
370	20+990	484450.994	2950000.000	33	53	31.963
371	20+1000	484458.054	2950000.000	33	53	31.963
372	20+1010	484465.114	2950000.000	33	53	31.963
373	20+1020	484472.174	2950000.000	33	53	31.963
374	20+1030	484479.234	2950000.000	33	53	31.963
375	20+1040	484486.294	2950000.000	33	53	31.963
376	20+1050	484493.354	2950000.000	33	53	31.963
377	20+1060	484500.414	2950000.000	33	53	31.963
378	20+1070	484507.474	2950000.000	33	53	31.963
379	20+1080	484514.534	2950000.000	33	53	31.963
380	20+1090	484521.594	2950000.000	33	53	31.963
381	20+1100	484528.654	2950000.000	33	53	31.963
382	20+1110	484535.714	2950000.000	33	53	31.963
383	20+1120	484542.774	2950000.000	33	53	31.963
384	20+1130	484549.834	2950000.000	33	53	31.963
385	20+1140	484556.894	2950000.000	33	53	31.963
386	20+1150	484563.954	2950000.000	33	53	31.963
387	20+1160	484571.014	2950000.000	33	53	31.963
388	20+1170	484578.074	2950000.000	33	53	31.963
389	20+1180	484585.134	2950000.000	33	53	31.963
390	20+1190	484592.194	2950000.000	33	53	31.963
391	20+1200	484599.254	2950000.000	33	53	31.963
392	20+1210	484606.314	2950000.000	33	53	31.963
393	20+1220	484613.374	2950000.000	33	53	31.963
394	20+1230	484620.434	2950000.000	33	53	31.963
395	20+1240	484627.494	2950000.000	33	53	31.963
396	20+1250	484634.554	2950000.000	33	53	31.963
397	20+1260	484641.614	2950000.000	33	53	31.963
398	20+1270	484648.674	2950000.000	33	53	31.963
399	20+1280	484655.734	2950000.000	33	53	31.963
400	20+1290	484662.794	2950000.000	33	53	31.963
401	20+1300	484669.854	2950000.000	33	53	31.963
402	20+1310	484676.914	2950000.000	33	53	31.963
403	20+1320	484683.974	2950000.000	33	53	31.963
404	20+1330	484691.034	2950000.000	33	53	31.963
405	20+1340	484698.094	2950000.000	33	53	31.963
406	20+1350	484705.154	2950000.000	33	53	31.963
407	20+1360	484712.214	2950000.000	33	53	31.963
408	20+1370	484719.274	2950000.000	33	53	31.963
409	20+1380	484726.334	2950000.000	33	53	31.963
410	20+1390	484733.394	2950000.000	33	53	31.963
411	20+1400	484740.454	2950000.000	33	53	31.963
412	20+1410	484747.514	2950000.000	33	53	31.963