

**Four Laning of Jhanjhi – Demow Section from Design km 490.800 To  
km 534.800 of NH-37, Assam under SARDP on EPC Mode**



## Drawings

### Service Road Plan & Profile

April 2016

Authority Engineer :



**VOYANTS SOLUTIONS PVT LTD**

Proof Checking Consultant :



**GIFFORD INDIA PVT. LTD.**

Contractor :



**CORSAN CORVIAM CONSTRUCTION S.A.**

Consultant :



ISO 9001:2008

**Projects Consulting India (P) Ltd**

(Formerly: Distinct Planning and Design Consult (P) Ltd.)

**Engineers & Planners**

New Delhi, India

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[www.pcindia.co](http://www.pcindia.co)



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km 534.800 of NH-37, Assam under SARDP on EPC Mode**

**Drawings**

**Service Road Plan & Profile**

Date of Release : 06.04.2016  
Prepared : KD/SPS  
Checked : BKG/AS  
Approved : RBS

DESIGN DIRECTOR  
Corsa Corviam Construction S.A.  
Corsa Corviam Construction S.A.

APPROVED  
L.R. KADIYALI & ASSOCIATES  
SAFETY CONSULTANT

Authority Engineer :



VOYANTS SOLUTIONS PVT LTD

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GIFFORD INDIA PVT. LTD.

Contractor :



**ISOLUX CORSÁN** CORSAN CORVIAM CONSTRUCTION S.A.

Consultant :



ISO 9001:2008

**Projects Consulting India (P) Ltd**

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## DRAWING LIST SERVICE ROAD (CH. CH. 504+000 TO CH. 514+000)

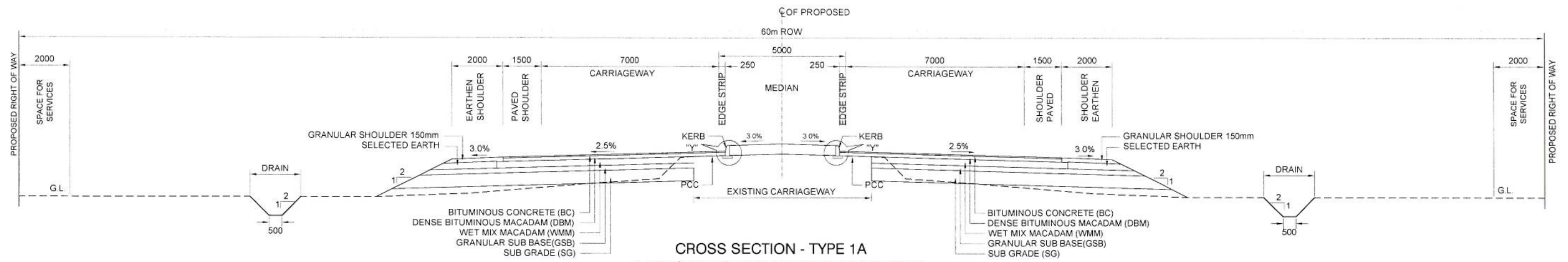
S. NO.	DRAWING NO		DRAWING TITLE	DRG. REVISION
TYPICAL CROSS SECTION		SHEET		
1	94-01-01	(SHEET 1 OF 4)	TYPICAL CROSS SECTION	R2
2	94-01-01	(SHEET 2 OF 4)	TYPICAL CROSS SECTION	R2
3	94-01-01	(SHEET 3 OF 4)	TYPICAL CROSS SECTION	R2
4	94-01-01	(SHEET 4 OF 4)	TYPICAL CROSS SECTION	R2
VERTICAL ALIGNMENT REPORT (LSR)				
1	94-04-01-LSR		VERTICAL ALIGNMENT REPORT (CH. 504+000 TO CH. 514+000) (SERVICE ROAD LEFT SIDE)	R0
VERTICAL ALIGNMENT REPORT (RSR)				
1	94-04-02-RSR		VERTICAL ALIGNMENT REPORT (CH. 504+000 TO CH. 514+000) (SERVICE ROAD RIGHT SIDE)	R0
PLAN AND PROFILE (LSR)				
1	94-05-01-LSR-505		SERVICE ROAD PLAN AND PROFILE (CH. 504+690 TO CH. 505+445) (LEFT SIDE)	R0
2	94-05-01-LSR-514		SERVICE ROAD PLAN AND PROFILE (CH. 513+290 TO CH. 514+090) (LEFT SIDE)	R0
PLAN AND PROFILE (RSR)				
1	94-05-02-RSR-505		SERVICE ROAD PLAN AND PROFILE (CH. 504+690 TO CH. 505+445) (RIGHT SIDE)	R0
2	94-05-02-RSR-514		SERVICE ROAD PLAN AND PROFILE (CH. 513+290 TO CH. 514+090) (RIGHT SIDE)	R0

DESIGN DIRECTOR  
Corsan  Construcción S.A.

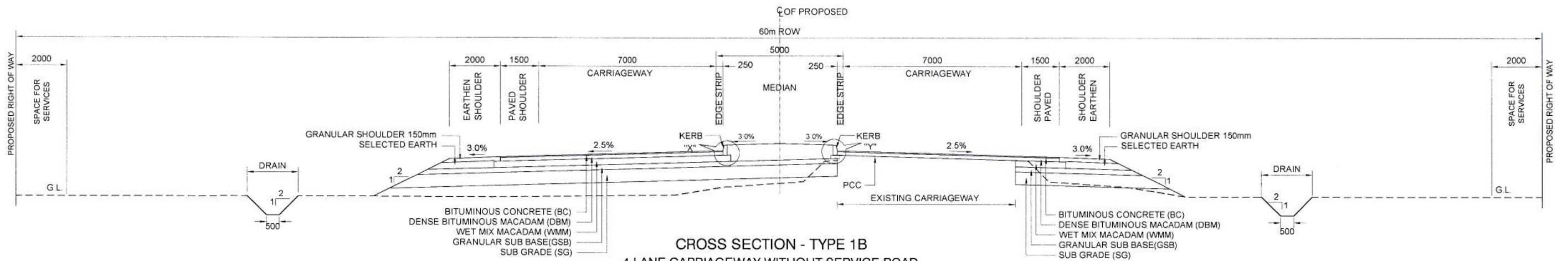
APPROVED  
L.R. KADIYALI & ASSOCIATES  
SAFETY CONSULTANT

			APPROVED:	RBS	CONSULTANT	 PROJECTS CONSULTING INDIA (P) LTD Engineers and Planners 6110 / 2 Sector - D6, Vasant Kunj New Delhi (India) 110070	CLIENT:	 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. Ministry of Road Transport & Highways, Government of India Branch Office : House No.1, Panipath, Ambikagiri Nagar, Zoo Road , Guwahati - 24	PROOF CHECKING CONSULTANT:	 Gifford India Pvt Ltd. (Part of Ramboll) The Epitome, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002	PROJECT:	FOUR LANING OF JHANJHI TO DEMOW SECTION OF NH-37 FROM DESIGN CH. KM 490+800 TO KM 534+800 IN THE STATE OF ASSAM UNDER EPC MODE						
			CHECKED:	BKG					Gifford		TITLE:	INDEX	SHEETSIZE:	A2	SHEET:	01	DATE:	April 2016
			DESIGNED:	AS	AUTHORITY ENGINEER :		CONTRACTOR:	CORSAN CORVIAM CONSTRUCTION S.A.	SAFETY CONSULTANT:	 L. R. KADIYALI & ASSOCIATES RZ-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070			SCALE:	NTS		REV.	R0	
			DRAWN:	KDS	 VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, BPTP Park Centra, Sector-30, NH-8, Gurgaon, Haryana – 122001, India	 02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001					DRAWING NO.	94-00-00						
REV	DATE	DESCRIPTION OF REVISIONS																

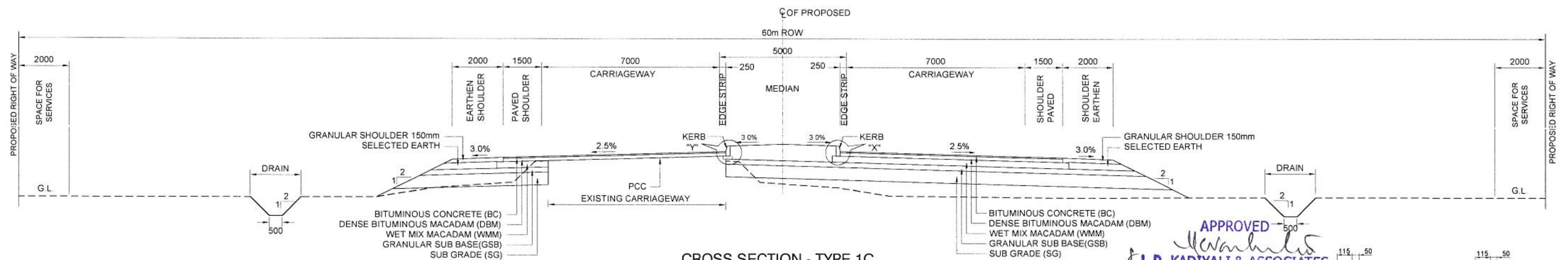




**CROSS SECTION - TYPE 1A**  
4-LANE CARRIAGEWAY WITHOUT SERVICE ROAD  
CONCENTRIC WIDENING  
REF:TCS-TYPE A-3 (FIG-2.4) OF IRC:SP:84-2009



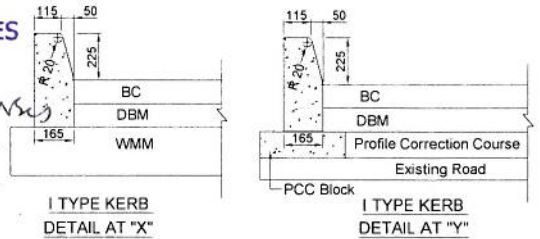
**CROSS SECTION - TYPE 1B**  
4-LANE CARRIAGEWAY WITHOUT SERVICE ROAD  
ECCENTRIC (LHS) WIDENING  
REF:TCS-TYPE A-3 (FIG-2.4) OF IRC:SP:84-2009



**CROSS SECTION - TYPE 1C**  
4-LANE CARRIAGEWAY WITHOUT SERVICE ROAD  
ECCENTRIC (RHS) WIDENING  
REF:TCS-TYPE A-3 (FIG-2.4) OF IRC:SP:84-2009

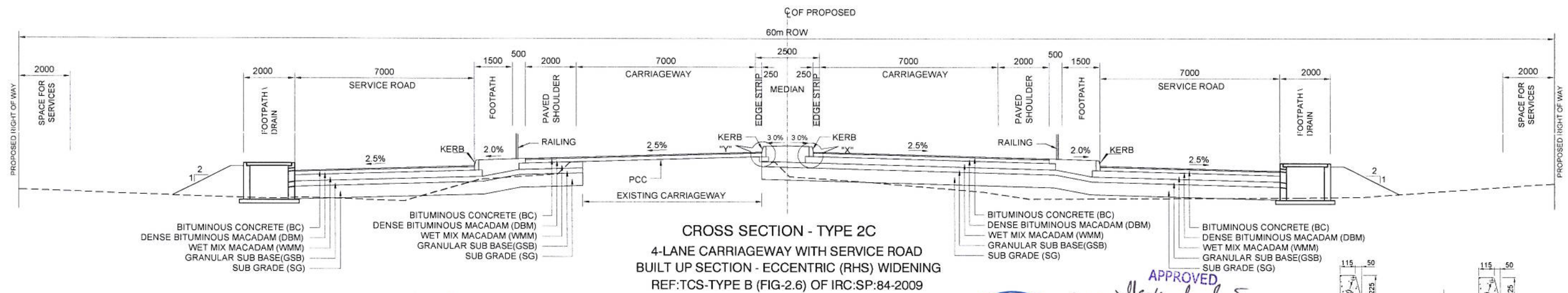
DESIGN DIRECTOR  
Corsan Corviam Construction S.A.

APPROVED  
L.R. KADIYALI & ASSOCIATES  
SAFETY CONSULTANT  
The layer thicknesses shall be as per the Pavement Design of the Project.



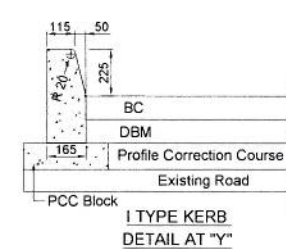
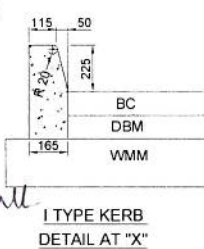
APPROVED		CLIENT		AUTHORITY ENGINEER		CONSULTANT		PROJECT	
RBS		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.		Voyants Solutions Pvt Ltd.		PROJECTS CONSULTING INDIA (P) LTD		FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE	
CHECKED		Ministry of Road Transport & Highways, Government of India		403, 4th Floor, BPTP Park Centre, Sector-30, NH-8, Gurgaon, Haryana - 122001, India		Engineers and Planners 6110 / 2 Sector - D6, Vasant Kunj New Delhi (India) 110070		TITLE	
BKG		CONTRACTOR		PROOF CHECK CONSULTANT		SAFETY CONSULTANT		TYPICAL CROSS SECTION	
AS		CORSAN CORVIAM CONSTRUCTION S.A.		Gifford India Pvt Ltd.		L. R. KADIYALI & ASSOCIATES		DATE	
DRAWN		02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001		The Epitome, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002		RZ-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070		DEC., 2015	
KDS								SCALE	
								N.T.S.	
REV		DATE		DESCRIPTION		DRAWING NO		SHEET SIZE	
						94-01-01		A2	
								SHEET	
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								REV	
								R2	





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L.R. KADIYALI & ASSOCIATES  
SAFETY CONSULTANT

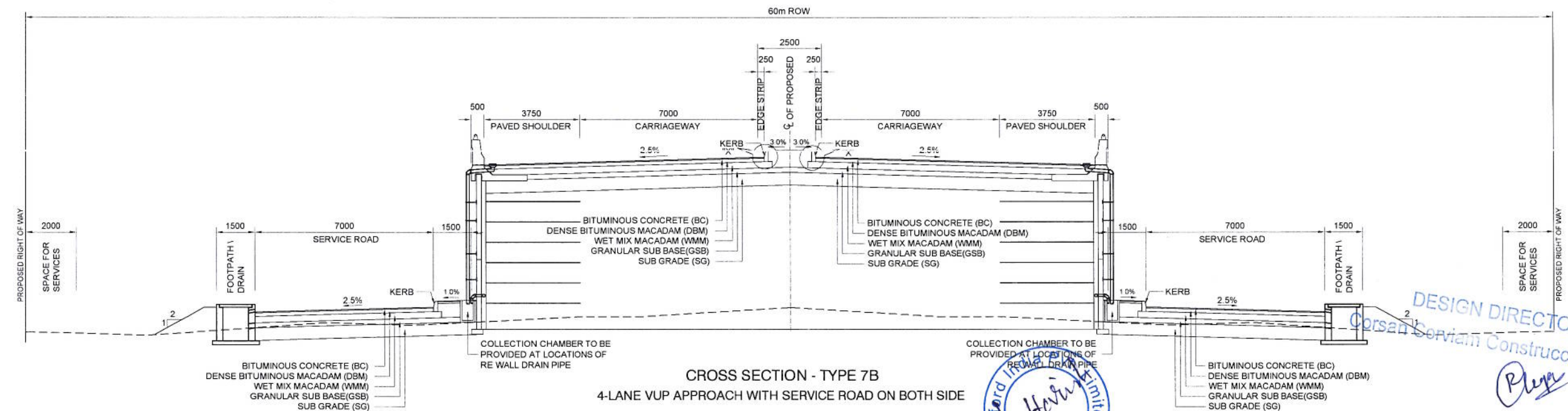
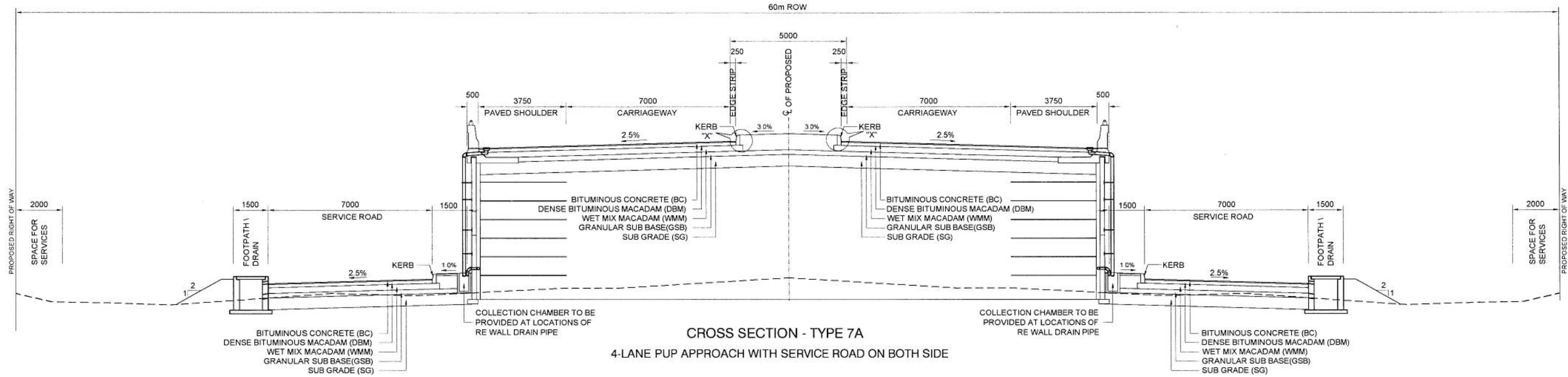
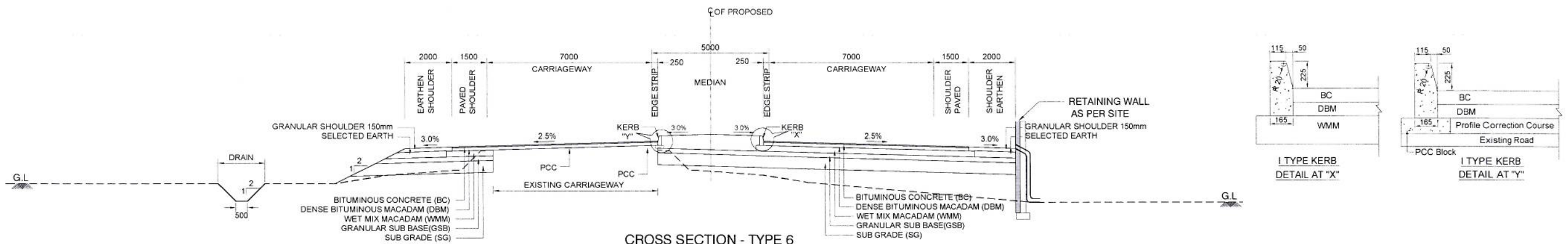
The layer thicknesses shall be as per the Pavement Design of the Project.

[illegible]









APPROVED  
 L. R. KADIYALI & ASSOCIATES  
 SAFETY CONSULTANT  
 The layer thickness shall be as per the Pavement Design of the Project

APPROVED		CLIENT		AUTHORITY ENGINEER		PROJECT	
RBS		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.		Voyants Solutions Pvt Ltd.		FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE	
CHECKED		Ministry of Road Transport & Highways, Government of India		403, 4th Floor, BPTP Park Centre, Sector-30, NH-8, Gurgaon, Haryana - 122001, India		TITLE	
BKG		Branch Office: House No 1, Panipath, Ambikagiri Nagar, Zoo Road, Guwahati - 781005		PROJECTS CONSULTING INDIA (P) LTD		TYPICAL CROSS SECTION	
DESIGNED		CONTRACTOR		PROOF CHECK CONSULTANT		DATE	
AS		CORSAN CORVIAM CONSTRUCTION S.A.		Gifford India Pvt Ltd.		DEC., 2015	
DRAWN		02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001		Gifford India Pvt Ltd.		SCALE	
KDS				The Eptone, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002		N.T.S.	
				SAFETY CONSULTANT		DRAWING NO	
				L. R. KADIYALI & ASSOCIATES		94-01-01	
				RZ-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070		SHEET SIZE	
						A2	
						SHEET	
						4 OF 4	
						REV	
						R2	









VERTICAL ALIGNMENT REPORT LHS SERVICE ROAD (KM 504+690 TO KM 505+440)													
VIP No.	VIP CHAINAGE	VIP LEVEL	IN-GRADE	OUT-GRADE	GRADE DIFFERENCE	CURVE TYPE	LENGTH OF CURVE	K-VALUE	CURVE START		CURVE END		DESIGN SPEED
									CHAINAGE	LEVEL	CHAINAGE	LEVEL	
1	504690.000	90.459		0.210	0.210								40
2	504930.410	90.964	0.210	-0.672	-0.882	Hog	200	226.765	504830.410	90.754	505030.410	90.292	40
3	505111.088	89.750	-0.672	0.417	1.089	Sag	100	91.816	505061.088	90.086	505161.088	89.959	40
4	505286.305	90.481	0.417	-0.313	-0.730	Hog	70	95.879	505251.305	90.335	505321.305	90.372	40
5	505440.671	89.998	-0.313		0.327								40

VERTICAL ALIGNMENT REPORT LHS SERVICE ROAD (KM 513+290 TO KM 514+090)													
1	513290.000	91.097		0.300	0.286								40
2	513416.690	91.477	0.300	-0.416	-0.716	Hog	150	209.376	513341.690	91.252	513491.690	91.165	40
3	513580.448	90.795	-0.416	0.300	0.716	Sag	100	139.579	513530.448	91.003	513630.448	90.945	40
4	513908.143	91.778	0.300	-0.338	-0.638	Hog	275	431.304	513770.643	91.366	514045.643	91.314	40
5	514090.000	91.164	-0.338		0.380								40



APPROVED  
  
**L.R. KADIYALI & ASSOCIATES**  
 SAFETY CONSULTANT

DESIGNED BY  
  
**P. JAYARAM**  
 DESIGNER

			APPROVED	RBS	<div>CLIENT</div> <div><b>NATIONAL HIGHWAYS &amp; INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.</b> Ministry of Road Transport &amp; Highways, Government of India Branch Office - House No 1, Panpath, Ambikagin Nagar, Zoo Road, Guwahati - 24</div>	<div>AUTHORITY ENGINEER</div> <div><b>Voyants Solutions Pvt Ltd.</b> 403, 4th Floor, BPTP Park Centre, Sector-30, NH-8, Gurgaon, Haryana - 122001, India</div>	<div>CONSULTANT</div> <div><b>PROJECTS CONSULTING INDIA (P) LTD</b> Engineers and Planners 6110 / 2 Sector - D6, Vasant Kunj, New Delhi (India) 110070</div>	<div>PROJECT</div> <div>FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE</div>			
			CHECKED	BKG		<div>CONTRACTOR</div> <div><b>CORSAN CORVIAM CONSTRUCTION S.A</b> 02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001</div>	<div>PROOF CHECK CONSULTANT</div> <div><b>Gifford India Pvt Ltd.</b> (Part of Ramboll) The Epitome, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002</div>	<div>SAFETY CONSULTANT</div> <div><b>L. R. KADIYALI &amp; ASSOCIATES</b> RZ-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070</div>	<div>TITLE</div> <div>VERTICAL ALIGNMENT REPORT (CH. 504+000 TO CH. 514+000) (SERVICE ROAD LEFT SIDE)</div>	<div>DATE</div> <div>APR., 2016</div>	<div>SCALE</div> <div>N.T.S.</div>
REV	DATE	DESCRIPTION	DRAWN	KDS			<div>DRAWING NO</div> <div>94-04-01-LSR</div>	<div>SHEET SIZE</div> <div>A2</div>	<div>SHEET</div> <div>1 OF 1</div>	<div>REV</div> <div>R0</div>	



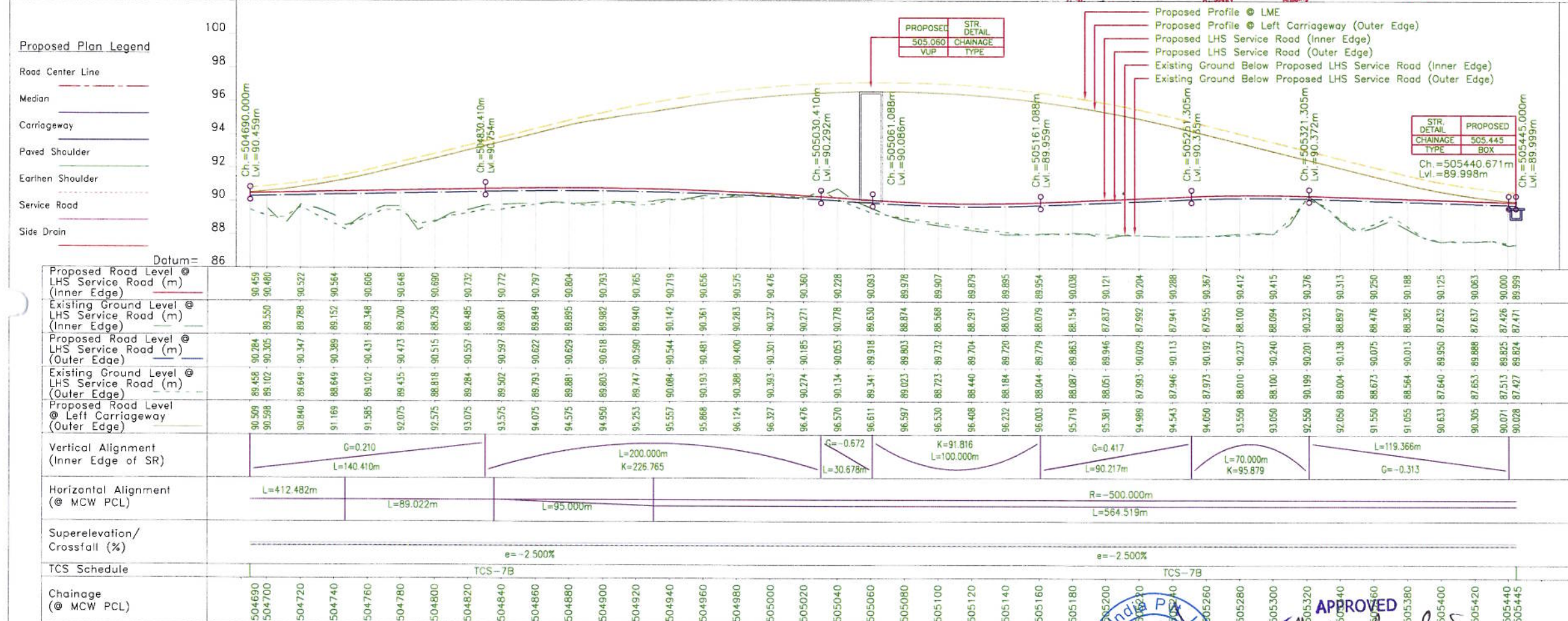
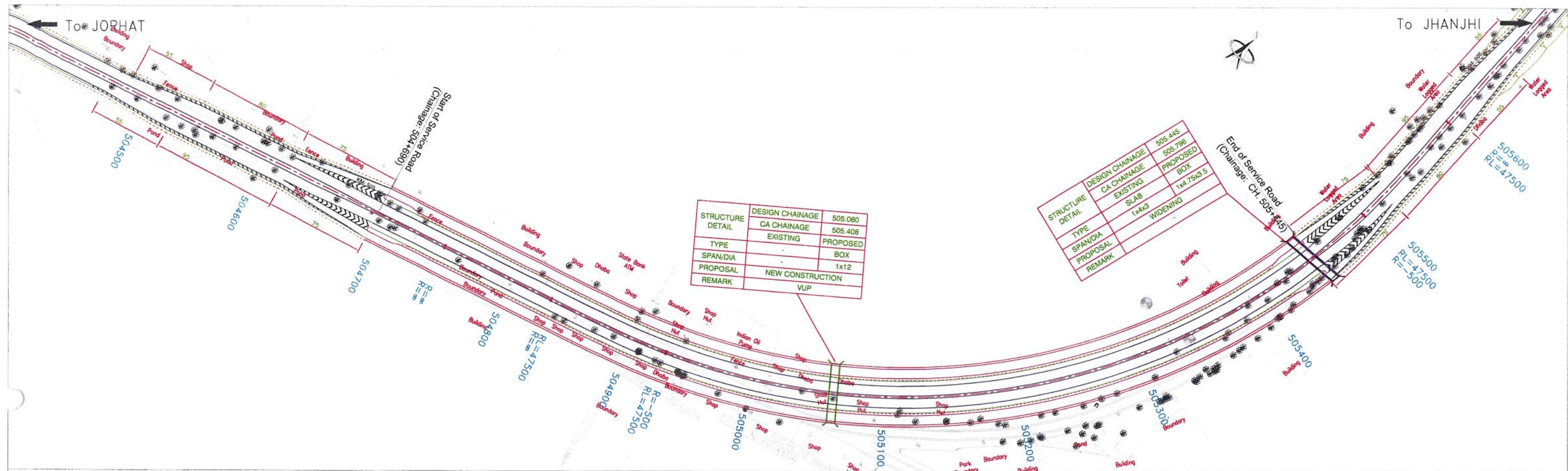
VERTICAL ALIGNMENT REPORT RHS SERVICE ROAD (KM 504+690 TO KM 505+440)													
VIP No.	VIP CHAINAGE	VIP LEVEL	IN-GRADE	OUT-GRADE	GRADE DIFFERENCE	CURVE TYPE	LENGTH OF CURVE	K-VALUE	CURVE START		CURVE END		DESIGN SPEED
									CHAINAGE	LEVEL	CHAINAGE	LEVEL	
1	504690.000	90.459		0.211	0.211								40
2	504932.171	90.970	0.211	-0.311	-0.522	Hog	100	191.587	504882.171	90.864	504982.171	90.815	40
3	505220.000	90.075	-0.311	0.769	1.080	Sag	100	92.584	505170.000	90.230	505270.000	90.460	40
4	505346.893	91.051	0.769	0.023	-0.746	Hog	100	134.075	505296.893	90.666	505396.893	91.063	40
5	505445.607	91.074	0.023										40
VERTICAL ALIGNMENT REPORT RHS SERVICE ROAD (KM 513+290 TO KM 514+090)													
1	513290.000	91.096		0.289	0.289								40
2	513500.533	91.705	0.289	-0.313	-0.603	Hog	300	497.919	513350.533	91.271	513650.533	91.235	40
3	513799.982	90.767	-0.313	0.368	0.682	Sag	250	366.833	513674.982	91.159	513924.982	91.227	40
4	513968.338	91.387	0.368	-0.183	-0.552	Hog	50	90.652	513943.338	91.295	513993.338	91.341	40
5	514090.000	91.164	-0.183										40

			APPROVED	RBS	CLIENT	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	AUTHORITY ENGINEER	Voyants Solutions Pvt Ltd.	CONSULTANT	PROJECTS CONSULTING INDIA (P) LTD Engineers and Planners	PROJECT	FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE						
			CHECKED	BKG		Ministry of Road Transport & Highways, Government of India Branch Office House No 1, Panipath, Ambikaganj Nagar, Zoo Road, Guwahati - 24		403, 4th Floor, BPTP Park Centra, Sector-30, NH-8, Gurgaon, Haryana - 122001, India		6110 / 2 Sector - D6, Vasant Kunj, New Delhi (India) 110070	TITLE	VERTICAL ALIGNMENT REPORT (CH. 504+000 TO CH. 514+000) (SERVICE ROAD RIGHT SIDE)	DATE	APR., 2016	SCALE	N.T.S.		
			DESIGNED	AS	CONTRACTOR	CORSAN CORVIAM CONSTRUCTION S.A.	PROOF CHECK CONSULTANT	Gifford India Pvt Ltd.	SAFETY CONSULTANT	L. R. KADIYALI & ASSOCIATES	DRAWING NO	94-04-02-RSR	SHEET SIZE	A2	SHEET	1 OF 1	REV	R0
REV	DATE	DESCRIPTION	DRAWN	KDS		02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001	Gifford	The Eptome, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002		RZ-44, Bhawani Kunj, Behind D-2 Vasant Kuni, New Delhi 110 070								



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APPROVED  
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SAFETY CONSULTANT



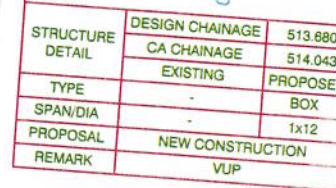


Note: Service Road Layout is subject to revision at junction location due to junction development.  
Construction of service road, 300m either side from junction shall not be carried out as per this drawing.

THIS DRAWING IS THE PROPERTY OF CORSAN CORVIAM CONSTRUCTION S.A.			APPROVED	RBS	 <b>NATIONAL HIGHWAYS &amp; INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.</b> Ministry of Road Transport & Highways, Government of India Branch Office: House No 1, Panipath, Ambikagiri Nagar, Zoo Road, Guwahati - 24	 <b>Voyants Solutions Pvt Ltd.</b> 403, 4th Floor, BPTP Park Centre, Sector-30, NH-8, Gurgaon, Haryana - 122001, India	 <b>PROJECTS CONSULTING INDIA (P) LTD</b> Engineers and Planners 6110/2 Sector - D6, Vasant Kunj New Delhi (India) 110070	<b>PROJECT</b> FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE
			CHECKED	BKG				
			DESIGNED	AS	<b>CONTRACTOR</b>  <b>CORSAN CORVIAM CONSTRUCTION S.A.</b> 02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001	<b>PROOF CHECK CONSULTANT</b>  <b>Gifford India Pvt Ltd.</b> (Part of Ramboll) The Epitome, Building No 5, Tower 'B' Level -17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002	<b>SAFETY CONSULTANT</b>  <b>L. R. KADIYALI &amp; ASSOCIATES</b> R2-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070	
	REV	DATE	DESCRIPTION	DRAWN				

<b>TITLE</b> SERVICE ROAD PLAN AND PROFILE (CH. 504+690 TO CH. 505+445) (LEFT SIDE)	<b>DATE</b> APR., 2016	<b>HORIZONTAL SCALE</b> = 1:2000 0 10 20 40 60m <b>VERTICAL SCALE</b> = 1:200 0 1 2 4 6m
<b>DRAWING NO</b> 94-05-01-LSR-505	<b>SHEET SIZE</b> A2	<b>SHEET</b> 1 OF 1
		<b>REV</b> R0





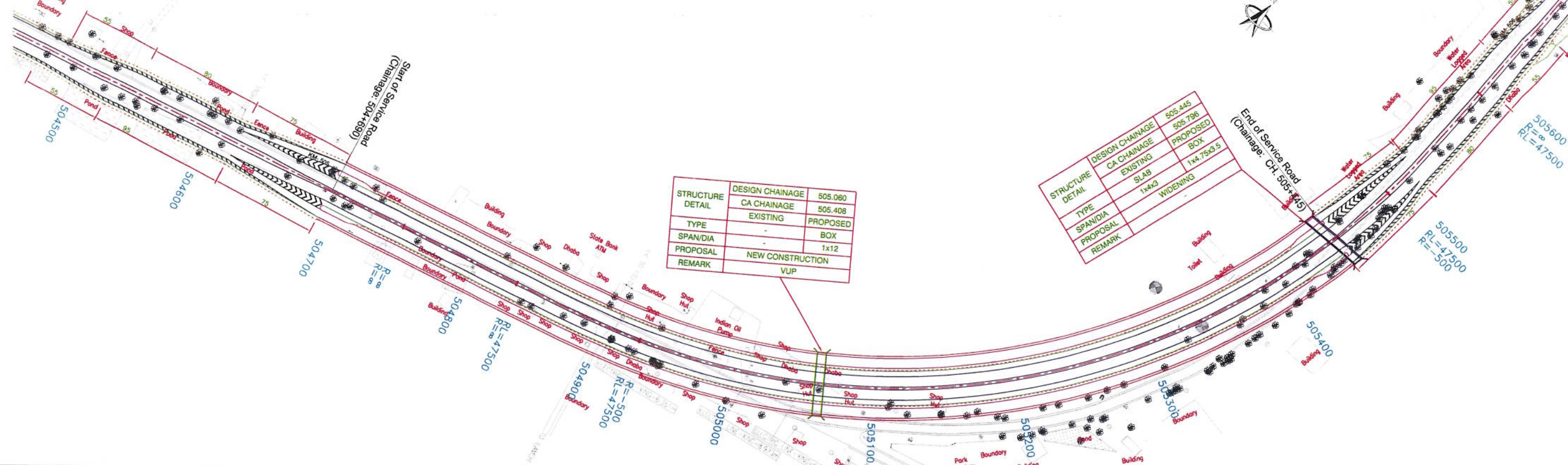
Construction of service road, 300m either side from junction shall not be carried out as per this drawing.

PROJECT	FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE			
TITLE	SERVICE ROAD PLAN AND PROFILE (CH. 513+290 TO CH. 514+090) (LEFT SIDE)	DATE	APR., 2016	HORIZONTAL SCALE = 1:2000  VERTICAL SCALE = 1:200 
DRAWING NO	94-05-01-LSR-514	SHEET SIZE	A2	SHEET 1 OF 1 REV R0



← To JORHAT

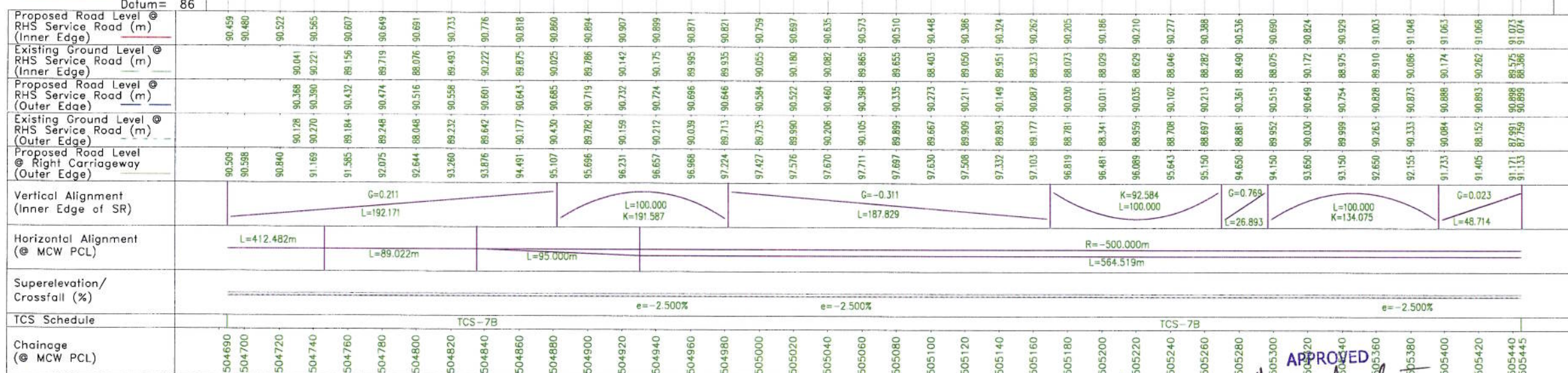
To JHANJHI →



# Proposed Plan Legend

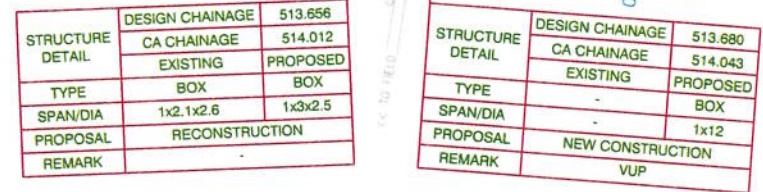
- Road Center Line
- Median
- Carriageway
- Paved Shoulder
- Earthen Shoulder
- Service Road
- Side Drain

Datum = 86





To JHANJIH 



APPROVED  
L.R. KADIYALI & ASSOCIATES  
SAFETY CONSULTANT

THIS DRAWING IS THE PROPERTY OF CORSAN CORVIAM CONSTRUCTION S.A.			APPROVED	RBS	 <b>NATIONAL HIGHWAYS &amp; INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.</b> Ministry of Road Transport & Highways, Government of India Branch Office : House No 1, Panipath, Ambikagin Nagar, Zoo Road, Guwahati - 24	 <b>Voyants Solutions Pvt Ltd.</b> 403, 4th Floor, BPT Park Centre, Sector-38, NH-8, Gurgaon, Haryana - 122001, India	 <b>PROJECTS CONSULTING INDIA (P) LTD</b> Engineers and Planners 6110 / 2 Sector - D6, Vasant Kunj New Delhi (India) 110070	PROJECT <b>FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM 491.050 TO KM 535.250 OF NH- 37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) MODE</b>	TITLE <b>SERVICE ROAD PLAN AND PROFILE (CH. 513+290 TO CH. 514+090) (RIGHT SIDE)</b>	DATE <b>APR., 2016</b>	HORIZONTAL SCALE = 1:2000  VERTICAL SCALE = 1:200 
			CHECKED	BKG							
			DESIGNED	AS	CONTRACTOR  <b>CORSAN CORVIAM CONSTRUCTION S.A.</b> 02nd Floor, Block Two, Vatika Business Park, Sector - 49, Sohna Road, Gurgaon, Haryana, India - 122001	PROOF CHECK CONSULTANT  <b>Gifford India Pvt Ltd.</b> (Part of Ramboll) The Epitome, Building No 5, Tower 'B', Level - 17, DLF Cyber City Phase-III, Gurgaon, Haryana-122002	SAFETY CONSULTANT  <b>L. R. KADIYALI &amp; ASSOCIATES</b> RZ-44, Bhawani Kunj, Behind D-2 Vasant Kunj, New Delhi 110 070				
	REV	DATE	DESCRIPTION	DRAWN	KDS						